09 March 2026

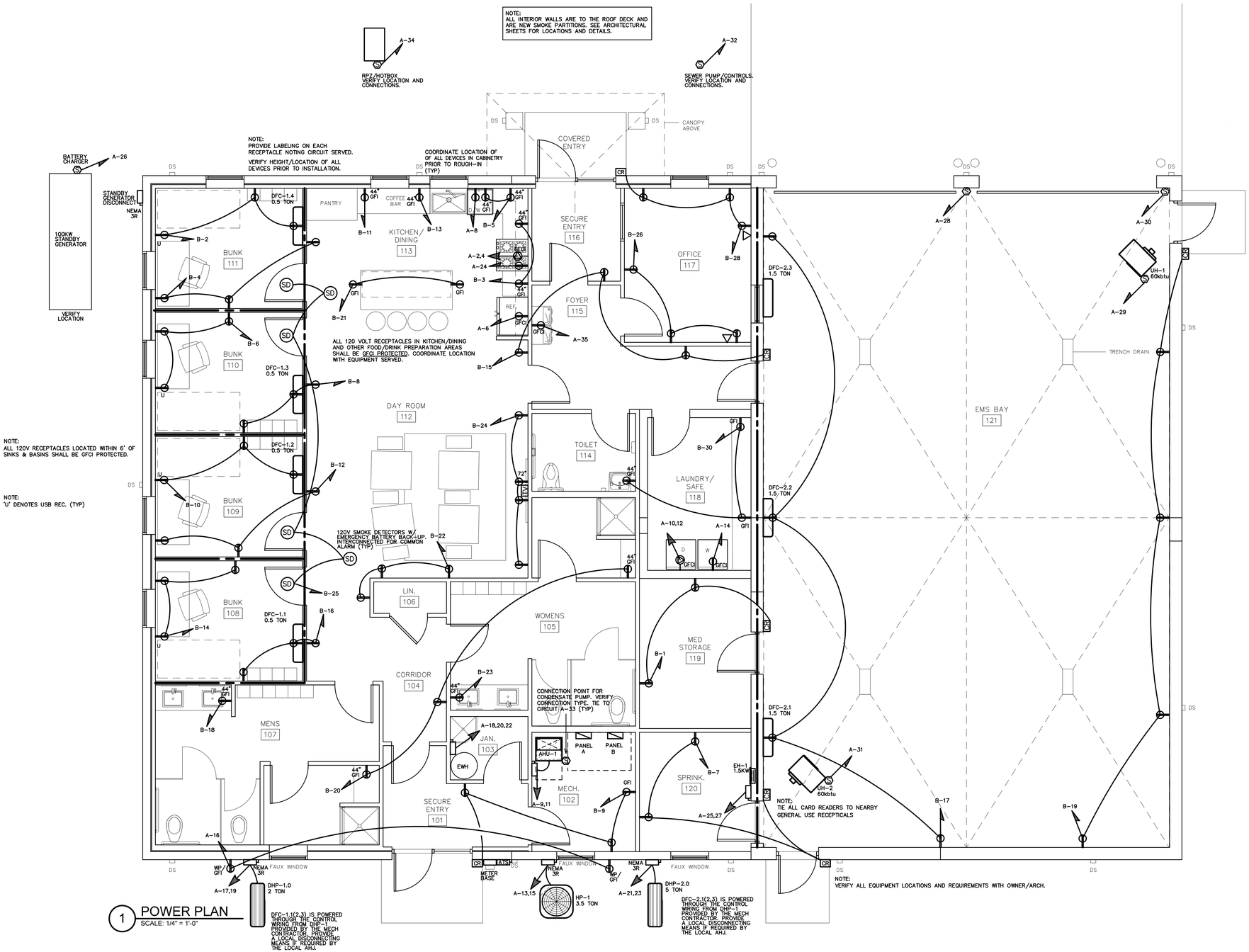
Addendum 5

Beaufort EMS
Beaufort, NC

The following addendum shall supersede previous information and does hereby become part of the contract documents.

- Clarification: The Contractor shall include in their Base Bid all connection costs to connect the domestic and fire line to the water mains as well as connecting the STEP system to the force main. The Owner will pay any tap fees to the utility companies.
- Men's Room 105 and Women's Room 107 to receive VCDD020C 196cfm fans each. Both Shower Rooms to receive VCDK008C 60cfm fans each. Toilet 114 to receive VCDK009C 88cfm fan.
- In lieu of the 2 ton (24 btu) outdoor HVAC unit shown on plans, Contractor to provide MXZ-3C30NA4-U1 to operate (4) MSZ-FS06NA-U1 FCU.
- Overhead Doors: In lieu of Overhead Doors called out in Addendum 4, provide model 429 by Overhead Door Corporation insulated steel back door with impact polycarbonate windows (3) 12"x10" port windows. Door design pressure is 54psf. Provide push button control, remotes and photo electric sensor as per Addendum 4.
- Clarification, S3.1 Metal Deck: Provide 1.5 B 22ga. Galv. Roof Fastened to supports in 36/4 pattern with #12 TEK fasteners @ 24"o.c. decking to be installed in typical 3- span configuration.
- See attached revised E3 and E4 for power requirements for STEP and RPZ hot box.
- Clarification, C401: Extend the 8" PVC shown to all downspouts around the building.
- See attached FA1 and FA2.

End of Addendum 5



1 POWER PLAN
SCALE: 1/4" = 1'-0"

PLAN NORTH

Coastal Architecture PLLC

Architectural Design Planning Interiors

AIA

Member of the American Institute of Architects

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BEAUFORT EMS

BEAUFORT, NORTH CAROLINA

NORTH CAROLINA REGISTERED PROFESSIONAL ENGINEER SEAL 22038 BENJAMIN E. BURKE
3/9/26

POWER PLAN

25003

ISSUED:	02/23/2026
DWG BY:	LS
CKD BY:	BEB

REVISIONS

SHEET NO.
E3

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Beaufort EMS E4

NEW PANEL- 'A'

MAKE: EATON | TYPE: PRL1A | OR APPROVED EQUAL

RATING: 208/120V 3 PHASE 4 WIRE | MOUNTING: SURFACE | MINIMUM AIC: VERIFY

MLO MAIN CIRCUIT BREAKER | EQUIPMENT GROUND BUS ☒YES ☐NO | SERVICE ENTRY RATED ☐YES ☒NO

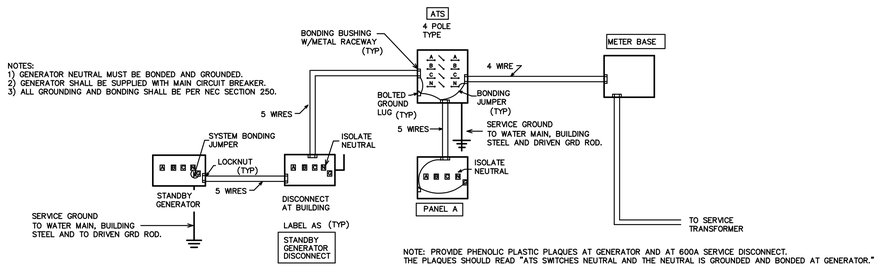
LOAD SERVICE	CKT BRKR	WATTS PER PHASE A	B	C	CKT NO	NEUTRAL A B C	CKT NO	WATTS PER PHASE A	B	C	CKT BRKR	LOAD SERVICE	
LTS – BUNK, KITCHEN, DAY RM	20A	790			1		2	4000			50A	RANGE/OVEN	
LTS – OFFICE, RESTROOMS	20A		1315		3		4		4000			.	(G)
LTS – EMS BAY	20A			752	5		6			1800	20A	FRIDGE	(G)
LTS – EXTERIOR	20A	738			7		8	1000			20A	DISHWASHER	(G)
AHU–1	45A		3447		9		10		2500		30A	DRYER	(G)
				3447	11		12			2500		.	(G)
HP–1	40A	2080			13		14	1440			20A	WASHER	(G)
			2080		15		16		360		20A	OUTSIDE REC.	
DHP–1	25A			2298	17		18			3000			
		2298			19		20	3000			40A	EWH	
DHP–2	90A		5720		21		22		3000				
				5720	23		24			1800	20A	MICROWAVE	
EH–1	20A	750			25		26	500			20A	GENERATOR BATTERY CHARGER	
			750		27		28		1000		20A	GARAGE DOOR	
UH–1	20A			492	29		30			1000	20A	GARAGE DOOR	
UH–2	20A	492			31		32	1920			20A	SEWER PUMP/CONTROLS	
CONDENSATE PUMP	20A		500		33		34		1200		20A	RPZ/HOTBOX	
(G) EWC	20A			888	35		36			---	20A	SPARE	
PANEL 'B'	100A	4320			37		38	---			20A	SPARE	
.			4500		39		40		---		20A	SPARE	
.				3960	41		42			---	20A	SPARE	
NOTES	SUB–TOTALS 'B'	11468	18312	17557			400A	BUS	11360	10860	10100	SUB–TOTALS 'A'	
(G) DENOTES GFCI BREAKER							400A	LUGS	12208	17748	18593	SUB–TOTALS 'B'	TOTAL CONNECTED LOAD
							400A	FEED	23568	29172	27657	GRAND TOTAL	
							VERIFY	SIZE	196A	244A	231A	AMPS/PHASE	

NEC ALLOWABLE DEMAND FACTORS

1. DEMAND FACTORS PER NEC 220
2. LARGEST OF: NEC TABLE 220.12 OR CONNECTED LOAD
3. NEC TABLE 220.56
4. NEC 220.51
5. NEC 220.43A, 200 VA/LINEAR FT
6. NON–COINCIDENT LOADS, LARGEST OF THE TWO LOADS IS COUNTED

DIVERSIFIED LOAD SUMMARY

LOAD TYPE		DEMAND FACTOR①	A	B	C	TOTAL DIVERSIFIED LOAD
GENERAL LIGHTING	②	125%	1910	1644	940	4494
TRACK LIGHTING		125%	---	---	---	---
GENERAL USE		≤10KVA@100%	3333	3333	3333	9999
RECEPTACLES		>10KVA@50%	494	764	314	1572
MOTORS AND EQUIPMENT	LARGEST	125%	2873	7150	7150	17173
	ALL OTHERS	100%	4512	6527	6737	17776
WATER HEATERS		125%	3750	3750	3750	11250
KITCHEN EQUIPMENT	③	100%	4000	3200	2880	10080
FIX. ELEC. SPACE HEAT.	④	100%	750	3750	3000	7500
SHOW WINDOW LIGHTS	⑤	125%	---	---	---	---
SIGN		125%	---	---	---	---
MISC		100%	1920	---	888	2808
PHASE (TOTAL VA)			23542	30118	28992	82652
TOTAL AMPS			196A	251A	242A	VOLT AMPS / VOLTS X 1.732 = 230A TOTAL AMPS



NOTES:
1) GENERATOR NEUTRAL MUST BE BONDED AND GROUNDED.
2) GENERATOR SHALL BE SUPPLIED WITH MAIN CIRCUIT BREAKER.
3) ALL GROUNDING AND BONDING SHALL BE PER NEC SECTION 250.

NOTE: PROVIDE PHENOLIC PLASTIC PLAQUES AT GENERATOR AND AT 600A SERVICE DISCONNECT. THE PLAQUES SHOULD READ "ATS SWITCHES NEUTRAL AND THE NEUTRAL IS GROUNDED AND BONDED AT GENERATOR."

2 GENERATOR GROUNDING DETAIL
SCALE: NTS

Beaufort EMS E4

AUTOMATIC TRANSFER SWITCH SCHEDULE

ATS "LIFE SAFETY"	*	ASCO MODEL#J–03AUS–B–3–0400–C–GO–F, AUTOMATIC TRANSFER SWITCH, OPEN TRANSITION. 400 AMP, 208/120 VOLT, 3 PHASE. PROVIDE GFI PROTECTION. SERVICE ENTRY RATED. NEMA 3R

* OR APPROVED EQUAL

EMERGENCY GENERATOR SCHEDULE

100 KW LIQUID PROPANE FUELED STANDBY GENERATOR *

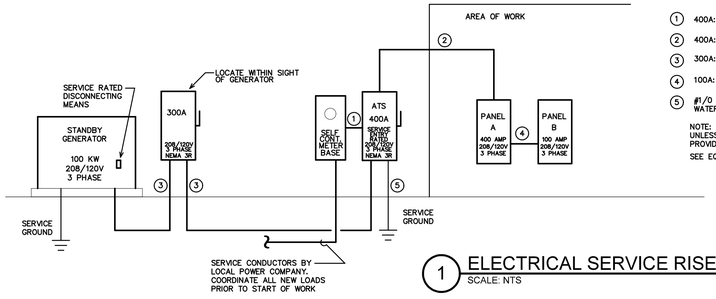
PROVIDE A "GENERAC" MODEL SG100 STANDBY GENERATOR WITH (1) "LIFE SAFETY" AUTOMATIC TRANSFER SWITCH. THE GENERATOR SHALL BE CAPABLE OF RUNNING ON LIQUID PROPANE FUEL WITH A 72 HOUR MIN RUN CAPACITY. PROVIDE ALL ACCESSORIES AS REQUIRED FOR A COMPLETE OPERATING SYSTEM. THE ENGINE SHALL HAVE A MINIMUM OF 154 HP AT 1800 RPM WITH AND ENCLOSED MUFFLER. THE DELIVERY VOLTAGE SHALL BE 208/120 VOLT, 3 PHASE. PROVIDE 10A DUAL RATE BATTERY CHARGER, AUTOMATIC VOLTAGE REGULATOR, AUTOMATIC LOW OIL PRESSURE AND HIGH TEMPERATURE SHUTDOWN. THE AUTOMATIC TRANSFER SWITCH SHALL TRANSFER FROM THE UTILITY AUTOMATICALLY WITH–IN 10 SECONDS. PROVIDE A SERVICE RATED DISCONNECTING MEANS WITH OVERCURRENT PROTECTION AT THE GENERATOR LOCATION. PROPERLY GROUND THE GENERATOR AND SERVICE EQUIPMENT PER THE NEC. PROVIDE INITIAL START UP AND OWNER TRAINING.
PROVIDE A DIGITAL CONTROL PANEL, UNIT VIBRATION ISOLATION, AND A LEVEL 1 ACOUSTIC WEATHER PROTECTIVE ENCLOSURE.
PROVIDE A LOAD TEST, START–UP AND OWNER TRAINING BY THE GENERATOR MANUFACTURER'S FACTORY TRAINED REPRESENTATIVE.

PROVIDE AN ADJUSTABLE 7–DAY/24–HOUR EXERCISE TIMER.

INSTALL PER NFPA 110 FOR THIS APPLICATION.

* OR APPROVED EQUAL

VERIFY AVAILABLE FAULT CURRENT AT SERVICE LOCATION WITH LOCAL POWER COMPANY. PROVIDE INFORMATION TO ENGINEER TO CALCULATE MINIMUM PANEL AIC RATING PRIOR TO RELEASING GEAR. AIC RATING ON PANELS ARE FOR PERMIT REVIEW AND PRICING ONLY. EC SHALL PROVIDE LABELING INDICATING FAULT CURRENT AT SERVICE ENTRY AND ON ALL PANELS PRIOR TO ENERGIZING.



1 ELECTRICAL SERVICE RISER
SCALE: NTS

RISER WIRING SCHEDULE

1. 400A: 4–#500MCM IN 3" CONDUIT
2. 400A: 4–#500MCM, 1–#3 CU GND, IN 3 1/2" CONDUIT
3. 300A: 4–#350MCM, 1–#4 CU GND, IN 3" CONDUIT
4. 100A: 4–#3, 1–#8 CU GND, IN 1 1/4" CONDUIT
5. #1/0 CU GND TO BUILDING STEEL, FOUNDATION STEEL AND METALLIC WATER MAIN AND #6 CU GND TO 10' X 5/8" DRIVEN GROUND ROD

NOTE:
UNLESS OTHERWISE NOTED ALL OTHER CIRCUITS ARE 20A, 120VOLT. PROVIDE 2–#12, 1–#12 CU GND IN 1/2" CONDUIT.
SEE EQUIPMENT SCHEDULES FOR ADDITIONAL WIRE SIZES.

Beaufort EMS E4

NEW PANEL- 'B'

MAKE: EATON PRL1A | TYPE: PRL1A | OR APPROVED EQUAL

RATING: 208/120V 3 PHASE 4 WIRE | MOUNTING: SURFACE | MINIMUM AIC: VERIFY

MLO MAIN CIRCUIT BREAKER | EQUIPMENT GROUND BUS ☒YES ☐NO | SERVICE ENTRY RATED ☐YES ☒NO

LOAD SERVICE	CKT BRKR	WATTS PER PHASE A	B	C	CKT NO	NEUTRAL A B C	CKT NO	WATTS PER PHASE A	B	C	CKT BRKR	LOAD SERVICE
REC – MED STORAGE	20A	360			1		2	540			20A	REC – BUNK 111
REC – KITCHEN COUNTER	20A		360		3		4		540		20A	REC – BUNK 111
REC – KITCHEN COUNTER	20A			360	5		6			540	20A	REC – BUNK 110
REC – SPRINKLER	20A	360			7		8	540			20A	REC – BUNK 110
REC – MECH & VEST.	20A		540		9		10		540		20A	REC – BUNK 109
REC – COFFEE BAR	20A			180	11		12			540	20A	REC – BUNK 109
REC – COFFEE BAR	20A	180			13		14	540			20A	REC – BUNK 108
REC – FOYER, KITCHEN	20A		540		15		16		540		20A	REC – BUNK 108
REC – EMS BAY	20A			720	17		18			180	20A	REC – MENS RR
REC – EMS BAY	20A	720			19		20	540			20A	REC – RR & CORRIDOR
REC – KITCHEN ISLAND	20A		360		21		22		540		20A	REC – DAY ROOM
REC – RR	20A			180	23		24			720	20A	REC – DAY ROOM
SMOKE DETECTORS (LOCKING)	20A	150			25		26	540			20A	REC – OFFICE 117
SPARE	20A		---		27		28		540		20A	REC – OFFICE 117
SPARE	20A			---	29		30			540	20A	REC – TOILET & LAUNDRY
NOTES	SUB–TOTALS 'B'	1620	1800	1440			100A	BUS	2700	2700	2520	SUB–TOTALS 'A'
							100A	LUGS	1620	1800	1440	SUB–TOTALS 'B'
							100A	FEED	4320	4500	3960	GRAND TOTAL
							VERIFY	SIZE	36A	38A	33A	AMPS/PHASE

TOTAL CONNECTED LOAD

NEC ALLOWABLE DEMAND FACTORS

1. DEMAND FACTORS PER NEC 220
2. LARGEST OF: NEC TABLE 220.12 OR CONNECTED LOAD
3. NEC TABLE 220.56
4. NEC 220.51
5. NEC 220.43A, 200 VA/LINEAR FT
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DIVERSIFIED LOAD SUMMARY

LOAD TYPE		DEMAND FACTOR①	A	B	C	TOTAL DIVERSIFIED LOAD
GENERAL LIGHTING	②	125%	---	---	---	---
TRACK LIGHTING		125%	---	---	---	---
GENERAL USE		≤10KVA@100%	3333	3333	3333	9999
RECEPTACLES		>10KVA@50%	494	584	314	1392
MOTORS AND EQUIPMENT	LARGEST	125%	---	---	---	---
	ALL OTHERS	100%	---	---	---	---
WATER HEATERS		125%	---	---	---	---
KITCHEN EQUIPMENT	③	80%	---	---	---	---
FIX. ELEC. SPACE HEAT.	④	100%	---	---	---	---
SHOW WINDOW LIGHTS	⑤	125%	---	---	---	---
SIGN		125%	---	---	---	---
MISC		100%	---	---	---	---
PHASE (TOTAL VA)			3827	3917	3647	11391
TOTAL AMPS			32A	33A	31A	VOLT AMPS / VOLTS X 1.732 = 32A TOTAL AMPS

Beaufort EMS E4

EQUIPMENT WIRING SCHEDULE

EQUIPMENT	MCA	MOCP	VOLTS	PH	WIRE SIZE
RANGE/OVEN	(8kW)	50A	208V	1	3–#8, 1–#10 GND IN 3/4" CONDUIT
DRYER	(5KW)	30A	208V	1	3–#10, 1–#10 GND IN 3/4" CONDUIT
EWH	(9.0KW)	40A	208V	3	3–#8, 1–#10 GND IN 3/4" CONDUIT
AHU–1	44.7A	45A	208V	1	2–#8, 1–#10 GND IN 3/4" CONDUIT
HP–1	24.7A	40A	208V	1	2–#8, 1–#10 GND IN 3/4" CONDUIT
DHP–1	22.1A	25A	208V	1	2–#10, 1–#10 GND IN 1/2" CONDUIT
DHP–2	55.0A	90A	208V	1	2–#3, 1–#8 GND IN 1" CONDUIT
EH–1	(1.5KW)	20A	208V	1	2–#12, 1–#12 GND IN 1/2" CONDUIT

NOTE:
THE ELECTRICAL CONTRACTOR SHALL VERIFY ALL EQUIPMENT ELECTRICAL REQUIREMENTS PRIOR TO ROUGH–IN AND RELEASING GEAR. ADJUST BREAKER, WIRE SIZES, ETC. AS REQUIRED.

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BEAUFORT EMS
BEAUFORT, NORTH CAROLINA

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 42038 BENJAMIN E. BURKE 3/9/26

ELEC. PANEL & RISER

25003

ISSUED: 02/23/2026
DWG BY: LS
CKD BY: BEB
REVISIONS

SHEET NO.
E4

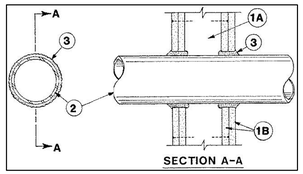
System No. W-L-1001

F Ratings --- 1, 2, 3 and 4 Hr (See Items 2 and 3)

T Ratings -- 0, 1, 2, 3, and 4 Hr (See Item 3)

L Rating At Ambient – less than 1 CFM/sq ft

L Rating At 400 F – less than 1 CFM/sq ft



1. **Wall Assembly ---** The 1, 2, 3 or 4 hr fire-rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner described in the individual U300 or U400 Series Wall or Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:

   A. **Studs ---** Wall framing may consist of either wood studs (max 2 h fire rated assemblies) or steel channel studs. Wood studs to consist of nom 2 by 4 in. lumber spaced 16 in. OC with nom 2 by 4 in. lumber end plates and cross braces. Steel studs to be min 3-5/8 in. wide by 1-3/8 in. deep channels spaced max 24 in. OC.

   B. **Gypsum Board* ---** Nom 1/2 or 5/8 in. thick, 4 ft. wide with square or tapered edges. 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 is 26 in.

2. **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 periphery of opening shall be min of 0 in. (point contact) to max 2 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:

   A. **Steel Pipe ---** Nom 24 in. diam (or smaller) Schedule 10 (or heavier) steel pipe.

   B. **Iron Pipe ---** Nom 24 in. diam (or smaller) service weight (or heavier) cast iron soil pipe, nom 12 in. diam (or smaller) or Class 50 (or heavier) ductile iron pressure pipe.

   C. **Conduit ---** Nom 6 in. diam (or smaller) steel conduit or nom 4 in. diam (or smaller) steel electrical metallic tubing.

   D. **Copper Tubing ---** Nom 6 in. diam (or smaller) Type L (or heavier) copper tubing.

   E. **Copper Pipe ---** Nom 6 in. diam (or smaller) Regular (or heavier) copper pipe.

   F. **Through Penetrating Product* --- Flexible Metal Piping ---** The following types of steel flexible metal gas piping may be used:

   1. Nom 2 in. diam (or smaller) steel flexible metal gas piping. Plastic covering on piping may or may not be removed on both sides of floor or wall assembly.

   OMEGA FLEX INC

   2. Nom 1 in. diam (or smaller) steel flexible metal gas piping. Plastic covering on piping may or may not be removed on both sides of floor or wall assembly.

   GASTITE, DIV OF TITEFLEX

   3. Nom 1 in. diam (or smaller) steel flexible metal gas piping. Plastic covering on piping may or may not be removed on both sides of floor or wall assembly.

   WARD MFG LLC

Fill, Void or Cavity Materials* --- Caulk or Sealant --- Min 5/8, 1-1/4, 1-7/8 and 2-1/2 in. thickness of caulk for 1, 2, 3 and 4 hr rated assemblies, respectively, applied within annulus, flush with both surfaces of wall. Min 1/4 in. diam bead of caulk applied to gypsum board/penetrant interface at point contact location on both sides of wall. The hourly F Rating of the firestop system is dependent upon the hourly fire rating of the wall assembly in which it is installed, as shown in the following table. The hourly T Rating of the firestop system is dependent upon the type or size of the pipe or conduit and the hourly fire rating of the wall assembly in which it is installed, as tabulated below:

Max Pipe or Conduit Diam In	F RATING Hr	T RATING Hr
1	1 or 2	0+, 1 or 2
1	3 or 4	3 or 4
4	1 or 2	0
6	3 or 4	0
12	1 or 2	0

+When copper pipe is used, T Rating is 0 hr.

3M COMPANY --- CP 25WB+ or FB-3000 WT.

*Bearing the UL Classification Mark

DIVISION 16 – FIRE ALARM

PART 1 – GENERAL

1.1 DESCRIPTION OF THE WORK

A. Work under this section includes, but is not necessarily limited to, furnishing and installing the following:
   1. Fire alarm panel, wiring and devices

B. All work shall be complete and items, equipment, etc., shall be electrically connected for proper and correct operation.

C. All work under this contract shall be installed in accordance with the latest edition of the following codes and standards insofar as they apply.
   1. The 2017 National Electrical Code.
   2. NFPA 72
   3. Underwriter's Laboratories, Inc., Standards and approved listings.
   4. Electrical Testing Labatories standards.
   5. North Carolina Building Code, Latest Edition and Revisions.
   6. All local codes and ordinances.

D. The Fire Alarm Contractor shall be licensed in the State of North Carolina and have all local licenses required for the work

E. Obtain all permits, licenses, inspections, etc., required for the work and pay for the same. Furnish final certificate of inspection and approval from the electrical inspector having jurisdiction prior to acceptance of the work.

F. All work shall be done by skilled mechanics and shall present a neat, trim, workmanlike condition when complete.

1.2 INTENT

A. The intent of these specifications and the accompanying drawings is to convey as reasonably as possible the requirements for a complete job ready for the building to operate. The Fire Alarm Contractor shall take this into consideration and include in his base bid allowance for contingencies as will allow him to provide minor pieces of equipment and labor not specifically indicated but required for the job to operate properly, at no additional cost to the Owner.

1.3 COORDINATION

A. Coordinate work with other contractors. Notify Architect of apparent conflicts early to expedite construction. If structural damage appears imminent, stop work and notify Architect for a decision before resuming operations.

B. Locations shown are approximate. The drawings do not give exact details as to elevations and locations of various pipes, fittings, ducts, conduit, etc., and do not show all offsets and other installation details which may be required. Coordinate all locations with architect before any rough-in.

1.4 SHOP DRAWINGS

A. Provide complete shop drawings per NCSFC section 907.1.2 to the local fire marshal prior to start of construction including:
   1. Floorplan with room names
   2. Location of all FA devices
   3. Location of panels
   4. Power connections
   5. Battery calculations
   6. Conductors types and sizes
   7. Voltages drop calculations
   8. Equipment cut-sheets, model numbers, etc.

PART 2 – PRODUCTS AND MATERIALS

2.1 GENERAL

A. All material shall be new and shall bear the manufacturer's name, trade name, and UL label where such standard has been established for the particular material. Materials shall be the standard products of manufacturer's regularly engaged in the manufacturer of the required type of equipment and the manufacturer's latest approved design.
   1. Boxes installed in concealed locations shall be set flush with the finished surfaces.
   2. Provide rated boxes in all fire barriers & walls installed per code.

PART 3 – EXECUTION

3.1 FIRE ALARM SYSTEM EQUIPMENT

A. Provide a complete operable fire alarm system as shown on the drawings and as required by State, and Local codes.

B. The main control panel is existing. The unit is an addressable type. Verify spare capacity is available prior to bid. Expand as required.

C. Provide a remote key test switch for the duct detectors. Locate as directed by the local AHJ.

D. All fire alarm system cables shall be installed in conduit. Size as required by the equipment supplier. Provide a submittal of all devices and a riser diagram for approval before installation of any equipment.

E. The return air smoke detectors will be furnished by the E.C. to the HVAC contractor for installation. The HVAC contr shall be responsible for the shut down of all AHU'S. The E.C. shall be responsible for all connections to the fire alarm controller.

3.2 CLEAN UP

A. During construction, keep the site clean of debris. Upon completion, and before final inspection, clean up the premises to remove all evidence of work. In addition upon completion of construction leave equipment clean.

3.3 GUARANTEE

A. Guarantee all materials and labor included in the fire alarm work for a period of one year from date of final acceptance by the Owner. Any part or parts of the work or equipment which prove to be defective during the guarantee period shall be replaced at no additional cost to the Owner.

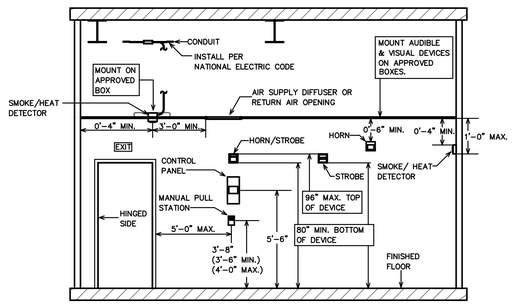
FIRE ALARM LEGEND

- HORN/STROBE SIGNALING DEVICE (XX) CANDELLA RATING; (S) INDICATES STROBE-ONLY
- PULL STATION
- SD — SMOKE DETECTOR (SD'S IN SLEEPING AREAS ARE 120V)
- HD — HEAT DETECTOR
- DD — DUCT SMOKE DETECTOR
- FACP — FIRE ALARM CONTROL PANEL
- RAP — REMOTE ANNUNCIATOR PANEL
- ELECTRIC BELL (EXTERIOR)
- FLOW/TAMPER SWITCH
- 1-HR FIRE BARRIER

SYSTEM INPUTS / SYSTEM OUTPUTS

SYSTEM OUTPUTS — FACP ANNUNCIATION | NOTIFICATION | REQUIRED FIRE SAFETY CONTROL

	SYSTEM INPUTS	A: ACTUATE COMMON ALARM SIGNAL INDICATOR	B: ACTUATE AUDIBLE ALARM SIGNAL	C: ACTUATE COMMON SUPERVISORY SIGNAL INDICATOR	D: ACTUATE AUDIBLE SUPERVISORY SIGNAL	E: ACTUATE COMMON TROUBLE SIGNAL INDICATOR	F: ACTUATE AUDIBLE TROUBLE SIGNAL	G: ACTUATE ZONE OR DEVICE ADDRESS ALARM INDICATOR	H: ACTUATE GENERAL EVACUATION SIGNAL	I: DISPLAY CHANGE OF STATUS	J: TRANSMIT FIRE ALARM SIGNAL TO CENTRAL STATION	K: TRANSMIT SUPERVISORY SIGNAL TO CENTRAL STATION	L: TRANSMIT TROUBLE SIGNAL TO CENTRAL STATION	M: RELEASE MAGNETICALLY HELD DOORS	N: RECALL ELEVATOR TO ALTERNATE RECALL FLOOR	O: RECALL ELEVATOR TO RECALL FLOOR	P: ACTUATE WARNING TO ELEVATOR CABS	Q: DELAYED REMOVAL OF POWER FROM ELEVATOR	R: CLOSE ALL SMOKE DAMPERS	S: UNLOCK EXITS AND CONTROL DOORS	T: SHUT DOWN RESPECTIVE AIR HANDLING EQUIPMENT	U: ACTUATE FLOOR PRESSURIZATION	V: ACTUATE STAIRWELL PRESSURIZATION	W: ACTUATE SMOKE EXHAUST	X	Y	
1	FIRE ALARM SYSTEM AC POWER FAILURE				●	●						●																1
2	FIRE ALARM SYSTEM LOW BATTERY					●	●						●															2
3	OPEN CIRCUIT					●	●						●															3
4	GROUND FAULT					●	●						●															4
5	NOTIFICATION APPLIANCE CIRCUIT SHORT					●	●						●															5
6	BUILDING MANUAL PULL STATIONS	●	●					●	●	●	●				●						●							6
7	CORRIDOR SMOKE DETECTORS	●	●					●	●	●	●				●	●					●	●		●	●	●		7
8	AREA SMOKE DETECTORS	●	●					●	●	●	●				●	●					●	●		●	●	●		8
9	HVAC AIR DUCT SMOKE DETECTORS			●	●			●				●											●					9
10	AREA HEAT DETECTORS	●	●					●	●	●	●				●	●					●	●		●	●	●		10
11	HOOD OR ROOM FIRE SUPPRESSION SYSTEM ALARM	●	●					●	●	●	●				●	●					●	●						11
12	SPRINKLER TAMPER SWITCH			●	●			●				●																12
13	SPRINKLER WATER FLOW IN BUILDING	●	●					●	●	●	●				●	●					●	●						13
14	SPRINKLER WATER FLOW IN ELEV EQUIP RM OR SHAFT	●	●					●	●	●	●				●	●		●	●		●	●						14
15	ELEV EQUIP RM AREA SMOKE DETECTOR	●	●					●	●	●	●				●	●		●			●	●						15
16	ELEV SHAFT AND ELEV EQUIP RM HEAT DETECTORS	●	●					●	●	●	●				●	●		●	●		●	●						16
17	ELEV LOBBY SMOKE DETECTORS – UPPER FLOORS	●	●					●	●	●	●				●	●					●	●		●	●	●		17
18	ELEV LOBBY SMOKE DETECTOR – RECALL FLOOR	●	●					●	●	●	●				●		●	●			●	●		●	●	●		18
19	ELEV CONTROLLER POWER SHUNT TRIP STATUS			●	●			●				●																19
20	FIRE PUMP POWER FAILURE/PHASE REVERSAL			●	●			●				●																20
21	FIRE PUMP RUNNING	●	●					●	●	●	●				●	●					●	●						21
22	FIRE PUMP SYSTEM NOT IN AUTOMATIC			●	●			●				●																22
23	LEGALLY REQUIRED GENERATOR SYSTEM LOW FUEL			●	●			●				●																23
24	LEGALLY REQUIRED GENERATOR NOT IN AUTOMATIC			●	●			●				●																24
25	AREA OF REFUGE TWO-WAY COMMUNICATIONS STATUS			●	●			●				●																25
26																												26
27																												27
		A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	V	W		

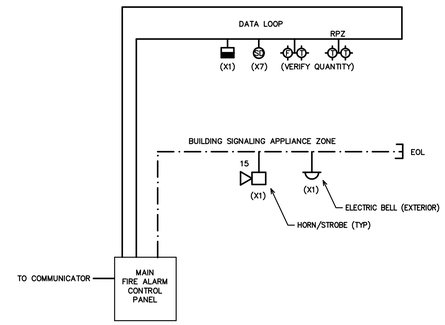


1 DEVICE MOUNTING DETAIL
SCALE: NTS

SEE PLAN FOR ACTUAL LOCATIONS OF DEVICES

VERIFY EXACT FIRE ALARM REQUIREMENTS WITH OWNER PRIOR TO SUBMITTING BID.

PROVIDE OR RELOCATE END-OF-LINE RESISTORS AS NEEDED FOR A CLASS B SYSTEM.



2 FIRE ALARM RISER
SCALE: NTS

PLAN NORTH

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FIRE ALARM NOTES/ RISER

25003

ISSUED:	3/9/2026
DWG BY:	LLS
CKD BY:	BEB

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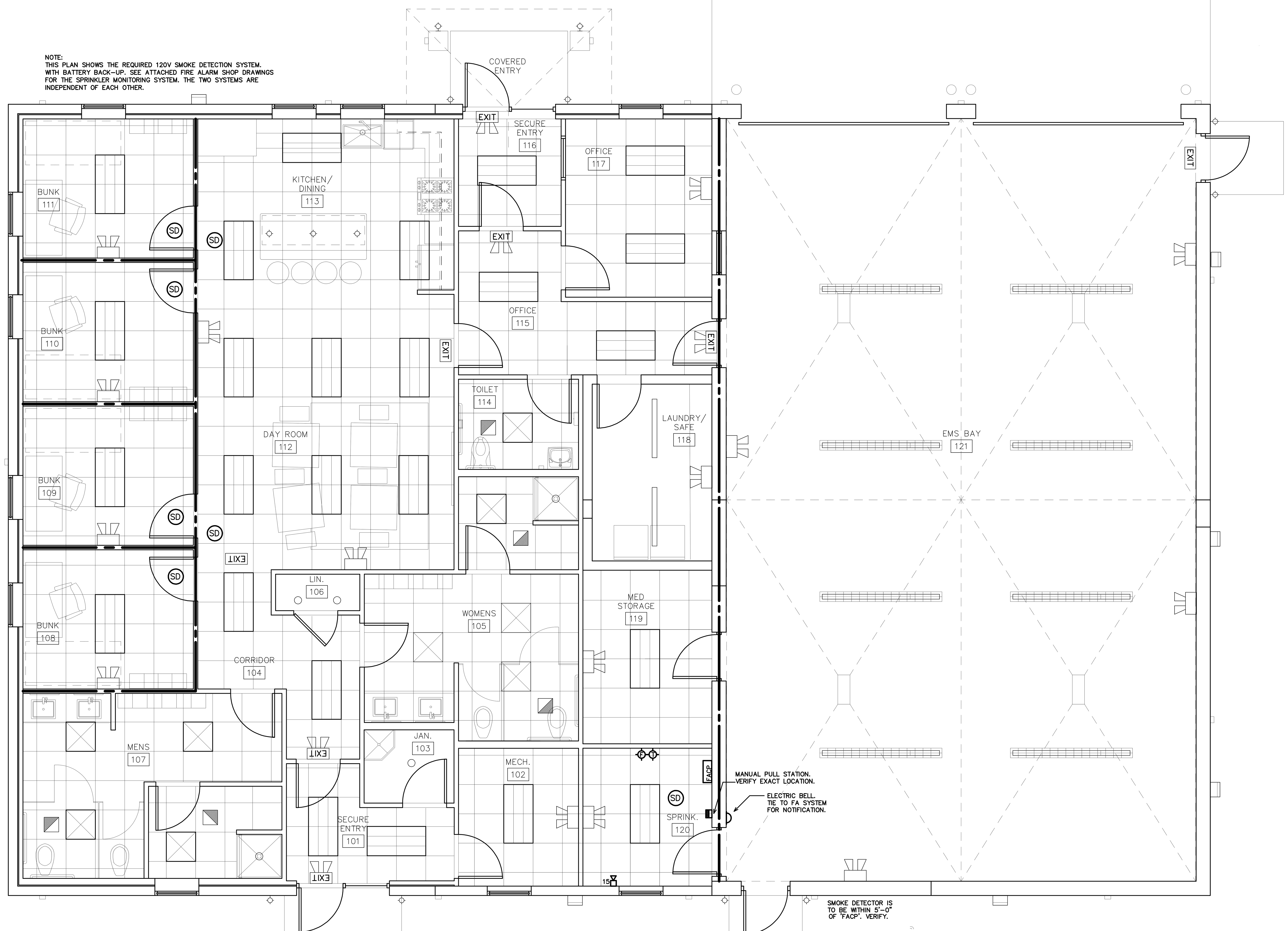

1 FIRE ALARM PLAN
SCALE: 1/4" = 1'-0"

PLAN NORTH

GENERAL FIRE ALARM NOTES:

1 HORN/STROBES MUST BE WITHIN 15'-0" OF THE END OF EACH CORRIDOR. PROVIDE STROBES IN ALL CORRIDORS, BATHROOMS, BREAK ROOMS AND STORAGE AREAS. INSTALL PER ADA.

2 CANDELA RATINGS SHOULD BE LABELED ON ALL STROBES.

3 ALL STROBES WITHIN SIGHT OF EACH OTHER MUST BE SYNCHRONIZED PER NFPA 72 UNLESS MAXIMUM REQUIRED SEPARATION IS OBTAINED.

4 VERIFY THE LOCATION OF THE MAIN FIRE ALARM CONTROL PANEL

5 VERIFY THAT A SD IS ADJACENT TO THE FACP.

6 ALL EXPOSED WIRE SHALL BE IN CONDUIT. ALL WIRING IN ASSEMBLY AREAS MUST BE IN CONDUIT.

7 ALL DEVICES, PANELS, ETC MUST BE BY SAME MANUFACTURER AND COMPATIBLE PROVIDE ALL ITEMS REQUIRED FOR A COMPLETE SYSTEM MEETING ALL CODES.

8 ALL WORK MUST MEET NFPA 72 AND APPLICABLE LOCAL CODES AND ORDINANCES. COORDINATE THE INSTALLATION WITH THE LOCAL FIRE MARSHALL.

9 MOUNT WALL-MOUNT HORN STROBES SUCH THAT THE ENTIRE LENS IS NOT LESS THAN 80" AND NOT GREATER THAN 96" ABOVE THE FINISHED FLOOR.

10 MOUNT MANUAL PULL STATIONS SUCH THAT THE OPERABLE PART OF THE DEVICE IS NOT LESS THAN 42" AFF AND NOT MORE THAN 54" AFF.

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FIRE ALARM PLAN

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