SYMBOL	ABBREVIATION	DESCRIPTION	SYMBOL	ABBREVIATION	N DESCRIPTION	SYMBOL	ABRREVIATIO	N DESCRIPTION
_	AC-	AIR CONDITIONING UNIT	♦	_	PLUG VALVE		_	TRANSITION
_	ACC-	AIR COOLED CONDENSING UNIT	5	_	LOCK SHIELD VALVE	∤ D → }	_	DUCT DROP
_	AD	ACCESS DOOR	<u> </u>	_	GATE VALVE	{ R → }	_	DUCT RISE
_	AFF	ABOVE FINISHED FLOOR	—	_	GLOBE VALVE		_	SQUARE VANED ELBOW
_	AHC	ABOVE HUNG CEILING		_	TEE DOWN		-	DUCT RISE
_	AHU-	AIR HANDLING UNIT	C—	_	ELBOW DOWN	<u> </u>	_	DUCT DROP
_	AP	ACCESS PANEL	-0-	_	TEE UP		_	DUCT TRANSITION
_	BDD	BACKDRAFT DAMPER	0—	_	ELBOW UP		_	ALUMINUM DUCT
_	BHP	BRAKE HORSEPOWER	\triangleright	_	CONCENTRIC REDUCER		AL	ACOUSTIC LINING
_	BTU	BRITISH THERMAL UNIT	H	_	ECCENTRIC REDUCER		FD/AD	FIRE DAMPER W/ ACCESS DOOR
-	CFM	CUBIC FEET PER MINUTE	Δ	_	OS&Y GATE VALVE		SD/AD	SMOKE DAMPER W/ ACCESS DOOR
_	CH-	CABINET HEATER	اجرا	_	STRAINER		CFSD	COMBINATION FIRE/SMOKE DAMPER W ACCESS DOOR
_	Q.	CENTERLINE	×	_	PRESSURE REDUCING VALVE		VD	VOLUME DAMPER
_	CP-	CONDENSATE PUMP	•	_	FLOW ARROW		AL	ACOUSTIC LINING
_	DB	DRY BULB TEMPERATURE	ďi	_	BUTTERFLY VALVE	\$ 6x8\$	_	DUCT SIZE - 1ST FIGURE IS SIDE SHO
_	DIA. OR Ø	DIAMETER	101	_	BALANCING VALVE	<u> </u>	FC	FLEXIBLE CONNECTION
_	DX	DIRECT EXPANSION	i Î	_	MANUAL AIR VENT		_	ALUMINUM DUCT
_	EA	EXHAUST AIR		_	SOLENOID VALVE	F 50	_	DIFFUSER/REGISTER TAG — TYPE / CF
_	EAT	ENTERING AIR TEMPERATURE	M rbi	_	MOTORIZED VALVE			, 2 , 3
_	EX-	EXHAUST FAN		_	T&P RELIEF VALVE	SECT# DWG#		SECTION CALLOUT
_	EL	ELEVATION	•	_	BALL VALVE	Jiog /		
_	ER	EXHAUST REGISTER	Ø H	_	PRESSURE GAGE	HWUH-#	_	HOT WATER UNIT HEATER
	ESP	EXTERNAL STATIC PRESSURE		_	TERMOMETER	ECUH-#	_	ELECTRIC CABINET UNIT HEATER
	EWT	ENTERING WATER TEMPERATURE		_	CHECK VALVE	GFUH-#	_	GAS FIRED UNIT HEATER
	FPM	FEET PER MINUTE	1 1	_	UNION	EDH-#	_	ELECTRIC DUCT HEATER
_			<u> </u>	EX.	EXISTING TO REMAIN	VEF-#		VEHICLE EXHAUST FAN
_	FPS	FEET PER SECOND		REL.	REMOVE AND RELOCATE	ν = 1 π		VEHICLE EXHAUST LAN
_	FTR	FINNED TUBE RADIATION						
_	GPM	GALLONS PER MINUTE		NEW	NEW WORK			
_	HP	HORSE POWER		DEM.	EXISTING TO BE REMOVED			
_	HV-	HEATING AND VENTILATING UNIT	— CD —	_	CONDENSATE DRAIN			
_	KX-	KITCHEN EXHAUST	—— HWS ——	_	HOT WATER SUPPLY			
_	LAT	LEAVING AIR TEMPERATURE	—— HWR ——	_	HOT WATER RETURN			
_	LF	LINEAR FEET	—— PD ——	_	PUMP DISCHARGE, CONDENSATE			
_	LWT	LEAVING WATER TEMPERATURE		_	REFRIGERANT LIQUID			
_	MBH	1000 BRITISH THERMAL UNITS PER HOUR	—— RS ——	_	REFRIGERANT SUCTION			
_	MER	MECHANICAL EQUIPMENT ROOM	—— HG ——	_	REFRIGERANT HOT GAS			
_	NC	NORMALLY CLOSED	Ū	_	THERMOSTAT			
_	NIC	NOT IN CONTRACT	M	_	MOTORIZED DAMPER			
_	NO	NORMALLY OPEN	\$	_	SMOKE DETECTOR			
_	OAI	OUTSIDE AIR INTAKE	Ψ	_	DOOR UNDER CUT			
_	PSI	POUNDS PER SQUARE INCH	+	_	DOOR LOUVER			
_	RA	RETURN AIR	→ -\	_	AIR INTO REGISTER			
-	RPM	REVOLUTIONS PER MINUTE	•	_	POINT OF CONNECTION DISCONNECTION		_	
_	SA	SUPPLY AIR		UH	UNIT HEATER			
_	SP	STATIC PRESSURE		CUH	CABINET UNIT HEATER			
_	TD	TRANSFER DUCT		P-1	PUMP			
_	TDH	TOTAL DYNAMIC HEAD		SR	SUPPLY REGISTER			
_	TSP	TOTAL STATIC PRESSURE		CD	1-WAY			
_	TYP.	TYPICAL		CD	2-WAY			
_	U.O.N.	UNLESS OTHERWISE NOTED		CD	2-WAY			
_	WB	WET BULB TEMPERATURE		CD	3-WAY			
	WG	INCHES OF WATER GAUGE		CD	4-WAY			
_	WMS			RR/RG				
_		WIRE MESH SCREEN		,	RETURN REGISTER/GRILLE			
_	WB	WET BULB TEMPERATURE		_	SUPPLY DUCT UP			
<u></u> -	WG	INCHES OF WATER GAUGE		_	SUPPLY DUCT DOWN			
*		3-WAY VALVE		_	RETURN DUCT UP			
 	_	FLEXIBLE CONNECTION		_	RETURN DUCT DOWN			
\mathbf{A}	_	2-WAY VALVE		_	TRANSITION FROM SQUARE TO ROUND DUCT			

GENERAL NOTES

- 1. CONTRACT DRAWINGS, AS FAR AS THEY RELATE TO THE GENERAL ARRANGEMENT AND LOCATION OF EQUIPMENT, SHEET METAL, AND PIPING, SHALL BE UNDERSTOOD AS DIAGRAMMATIC. ANY CHANGES TO EQUIPMENT, SHEET METAL, AND PIPING LOCATIONS NECESSARY TO AVOID INTERFERENCE WITH OTHER TRADES SHALL BE MADE AT NO EXTRA COST, AND MUST BE APPROVED BY THE ENGINEER.
- 2. THE MECHANICAL CONTRACTOR SHALL INSTALL FIRE DAMPERS WITH ACCESS DOORS IN ALL DUCTS PENETRATING FIRE RATED WALLS, WHETHER SPECIFICALLY SHOWN ON THE DRAWINGS OR NOT.
- 3. THE MECHANICAL CONTRACTOR SHALL FURNISH AND INSTALL VOLUME DAMPERS IN DUCTWORK AS REQUIRED TO BALANCE THE AIRFLOW AT ALL REGISTERS AND DIFFUSERS TO THE CFM'S INDICATED ON PLAN, WHETHER SPECIFICALLY SHOWN ON THE DRAWINGS OR NOT.
- 4. PROVIDE ALL PIPE OPENINGS THROUGH PARTITIONS WITH PIPE SLEEVES. FOR PIPES PENETRATING FIRE RATED PARTITIONS, THE SPACE BETWEEN THE PIPE AND THE SLEEVE SHALL BE SEALED WITH FIRE STOPPING MATERIAL. PENETRATIONS FOR PIPING SHALL BE MADE BY CORE DRILLING WHENEVER POSSIBLE.
- 5. ACOUSTICALLY LINE ALL TRANSFER DUCTS. ACOUSTIC LINING SHALL BE 1" THICK. PROVIDE RETURN REGISTERS AT TRANSFER DUCT INLETS & OUTLETS LOCATED BELOW THE CEILING, OR IN AREAS WITH NO CEILING.
- 6. DUCT-MOUNTED SMOKE DETECTORS AND SAMPLING TUBES SHALL BE FURNISHED BY THE ELECTRICAL CONTRACTOR. THE MECHANICAL CONTRACTOR SHALL INSTALL EACH SAMPLING TUBE IN THE DUCTWORK. THE ELECTRICAL CONTRACTOR SHALL INSTALL AND WIRE EACH SMOKE DETECTOR. THE MECHANICAL CONTRACTOR SHALL NOT BRANCH OFF ANY DUCT REQUIRING A DUCT SMOKE DETECTOR BEFORE THE DUCT SMOKE DETECTOR. LOCATE SMOKE DETECTORS IN SERVICEABLE AREAS, NOT IN SHAFTS.
- 7. ALL MOTOR STARTERS AND DISCONNECT SWITCHES FOR HVAC EQUIPMENT SHALL BE FURNISHED BY THE MECHANICAL CONTRACTOR AND INSTALLED BY THE ELECTRICAL CONTRACTOR, UNLESS OTHERWISE NOTED. DISCONNECT SWITCHES FURNISHED BY THE MECHANICAL CONTRACTOR FOR HVAC EQUIPMENT SHALL BE HEAVY DUTY TYPE.
- 8. DUCT DIMENSIONS SHOWN ON MECHANICAL DRAWINGS REFER TO INSIDE CLEAR DUCT DIMENSIONS. WHERE DUCTWORK IS LINED, THE MECHANICAL CONTRACTOR SHALL INCREASE THE SIZE OF DUCT TO COMPENSATE FOR LINING.
- 9. LOCATE THERMOSTATS AND TEMPERATURE SENSORS 5'-0" ABOVE FINISHED FLOOR UNLESS OTHERWISE NOTED. COORDINATE LOCATION WITH FURNITURE, CABINETS, ETC. FURNISH LOCKING TAMPERPROOF COVER FOR ALL NEW THERMOSTATS IN PUBLIC AREAS.
- 10. COORDINATE DUCTWORK, GRILLE, DIFFUSER AND REGISTER LOCATIONS WITH LIGHTS, SPRINKLER HEADS, SMOKE DETECTORS, AND THE ARCHITECTURAL PLANS.
- 11. THE MECHANICAL CONTRACTOR SHALL NOTE THAT, IN ADDITION TO THE SPECIFICATIONS AND DETAILS GIVEN IN THESE PLANS FOR PIPE HANGERS AND SUPPORTS, ALL HANGERS AND SUPPORTS SHALL BE DESIGNED AND INSTALLED IN COMPLIANCE WITH APPLICABLE SEISMIC CODES.
- 12. ALL EXPOSED DUCTWORK LOCATED IN AREAS WHERE THERE IS NO CEILING SHALL BE ROUND OR OVAL SPIRAL DUCTWORK, INTERNALLY LINED, PRIMED AND FINISHED PAINTED WITH FLAT ENAMEL. COORDINATE COLOR SELECTION WITH ARCHITECTURAL PLANS.
- 13. THE MECHANICAL CONTRACTOR SHALL SUBMIT FOR REVIEW A COMPOSITE SHOP DRAWING, FULLY COORDINATED WITH ALL OTHER TRADES, INDICATING DUCTWORK, PLUMBING AND SPRINKLER PIPING, SMOKE DETECTORS, LIGHTS, CONDUITS, SMOKE DETECTORS, DIFFUSERS, GRILLES, ETC.
- 14. ALL WORK SHALL COMPLY WITH NEW YORK STATE MECHANICAL CODE, NEW YORK STATE BUILDING CODE, LOCAL BUILDING CODE, AND NEW YORK STATE ENERGY CODE REQUIREMENTS. IN CASE OF CONFLICT BETWEEN THE CONTRACT DOCUMENTS AND A GOVERNING CODE OR ORDINANCE, THE MORE STRINGENT STANDARD SHALL APPLY.
- 15. DURING CONSTRUCTION, ALL OPEN OR INCOMPLETE DUCTWORK SHALL BE CAPPED AIRTIGHT WITH WITH HEAVY POLYETHYLENE PLASTIC. AFTER THE INSTALLATION OF DUCTWORK, REGISTERS, GRILLES, AND DIFFUSERS, THE CONTRACTOR SHALL BLANK OFF ALL REGISTERS, GRILLES, AND DIFFUSERS WITH HEAVY POLYETHYLENE PLASTIC AND TAPE AIR TIGHT, IN AREAS THAT ARE UNDER CONSTRUCTION, UNTIL WORK IS COMPLETE IN THOSE AREAS. FLOOR REGISTERS AND GRILLES SHALL ALSO BE COVERED WITH 1/8" MASONITE.
- 16. WHEN GENERAL CONSTRUCTION IS COMPLETE, VACUUM CLEAN ALL DIFFUSERS, REGISTERS, GRILLES, AND HVAC EQUIPMENT IN THE PROJECT AREA OR SERVING THE PROJECT AREA. REMOVE ANY CONSTRUCTION DEBRIS. REPLACE ALL AIR FILTERS WITH NEW.
- 17. THE OWNER'S PERMANENT HVAC EQUIPMENT SHALL NOT BE USED BY ANY CONTRACTOR DURING CONSTRUCTION FOR TEMPORARY HEATING, COOLING, OR VENTILATION. IF TEMPORARY HEATING, COOLING, OR VENTILATION IS REQUIRED AT ANY POINT DURING CONSTRUCTION, THE CONTRACTOR SHALL PROVIDE TEMPORARY HEATING, COOLING, OR VENTILATION EQUIPMENT, DUCTWORK, CONTROLS, AND POWER AT HIS OWN EXPENSE.
- 18. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING TEMPORARY VENTILATION AND EXHAUST AIR WHEN WELDING OR SOLDERING OPERATIONS ARE PERFORMED, AS REQUIRED BY OSHA.
- 19. THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING AND PAYING FOR ALL NECESSARY PERMITS AND FOR PAYING RELATED FEES.
- 20. ALL DUCTWORK SHALL BE PRESSURE TESTED AND INSPECTED PRIOR TO CONCEALMENT IN GENERAL CONSTRUCTION OR INSTALLATION OF HUNG CEILINGS.

Sullivan Architecture, P.C.

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> Bedford Village Fire District 34 Village Green Bedford, NY 10506

MEP Engineer: OLA Consulting Engineers

50 Broadway, Hawthorne, NY 10532 8 West 38th St. Suite 501, New York, NY Tel: 914-747-2800

Date Issue 03.10.20 MEETING 03.27.20 DESIGN DEVELOPMENT 05.07.20 PROGRESS 05.08.20 CD PROGRESS SET 05.28.20 CD PROGRESS SET 06.30.20 CD REVIEW SET 09.01.20 CONSTRUCTION PROGRESS 09.15.20 ICC SUBMISSION 01.15.21 ISSUED FOR BID

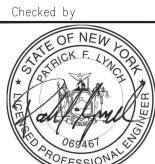
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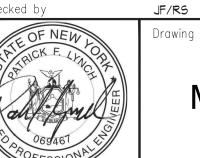
Bedford Fire Headquarters

550 Old Post Road Bedford, NY 10506

MÉCHANICAL SYMBOLS, ABBREVIATIONS, & **GENERAL NOTES**

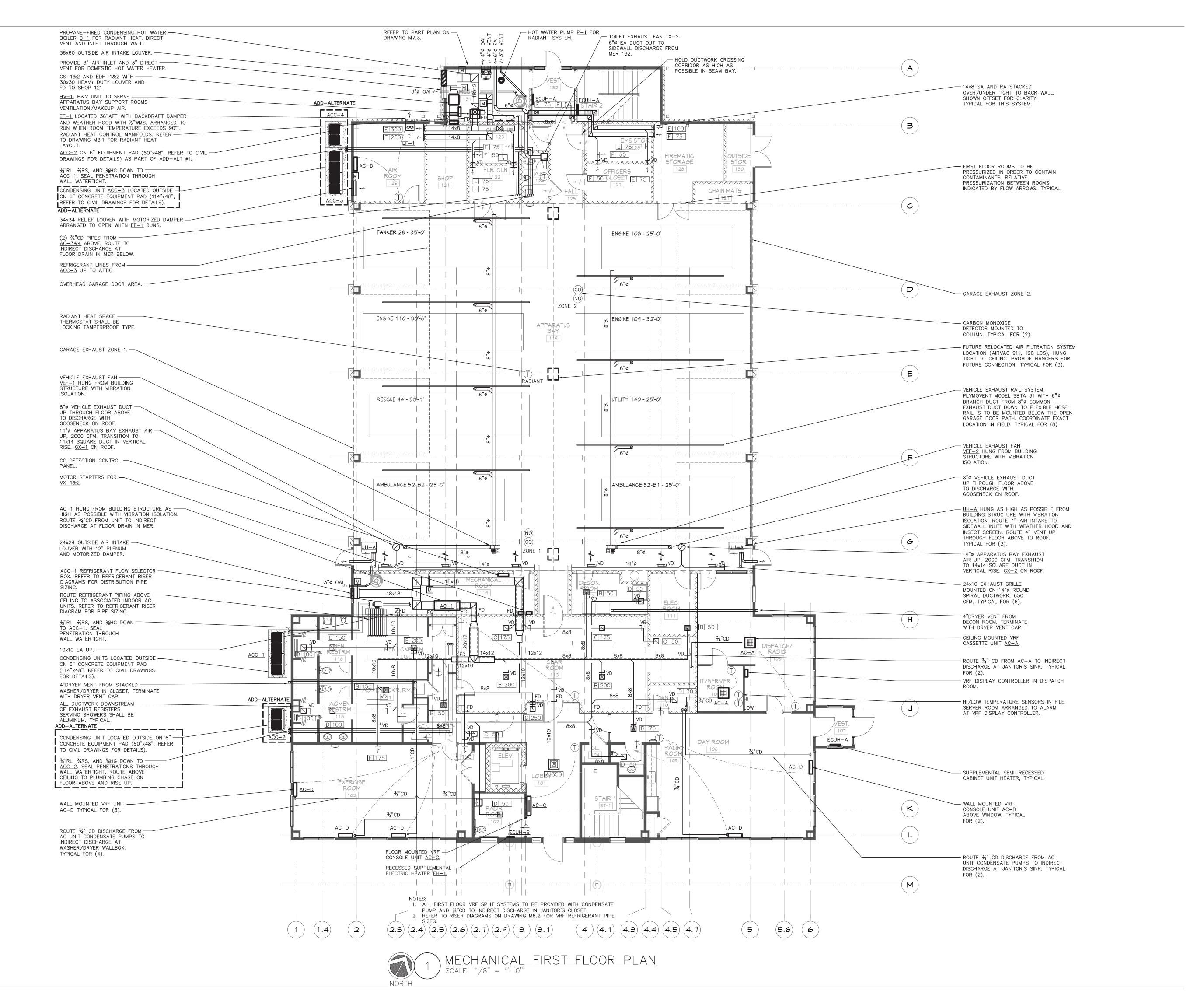
Project No. NSPC0070.00 Date 03-27-20 Scale AS NOTED Drawing by





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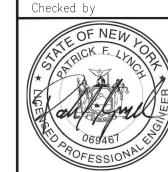
MECHANICAL FIRST FLOOR PLAN

Project No. NSPC0070.00

Date 03-27-20

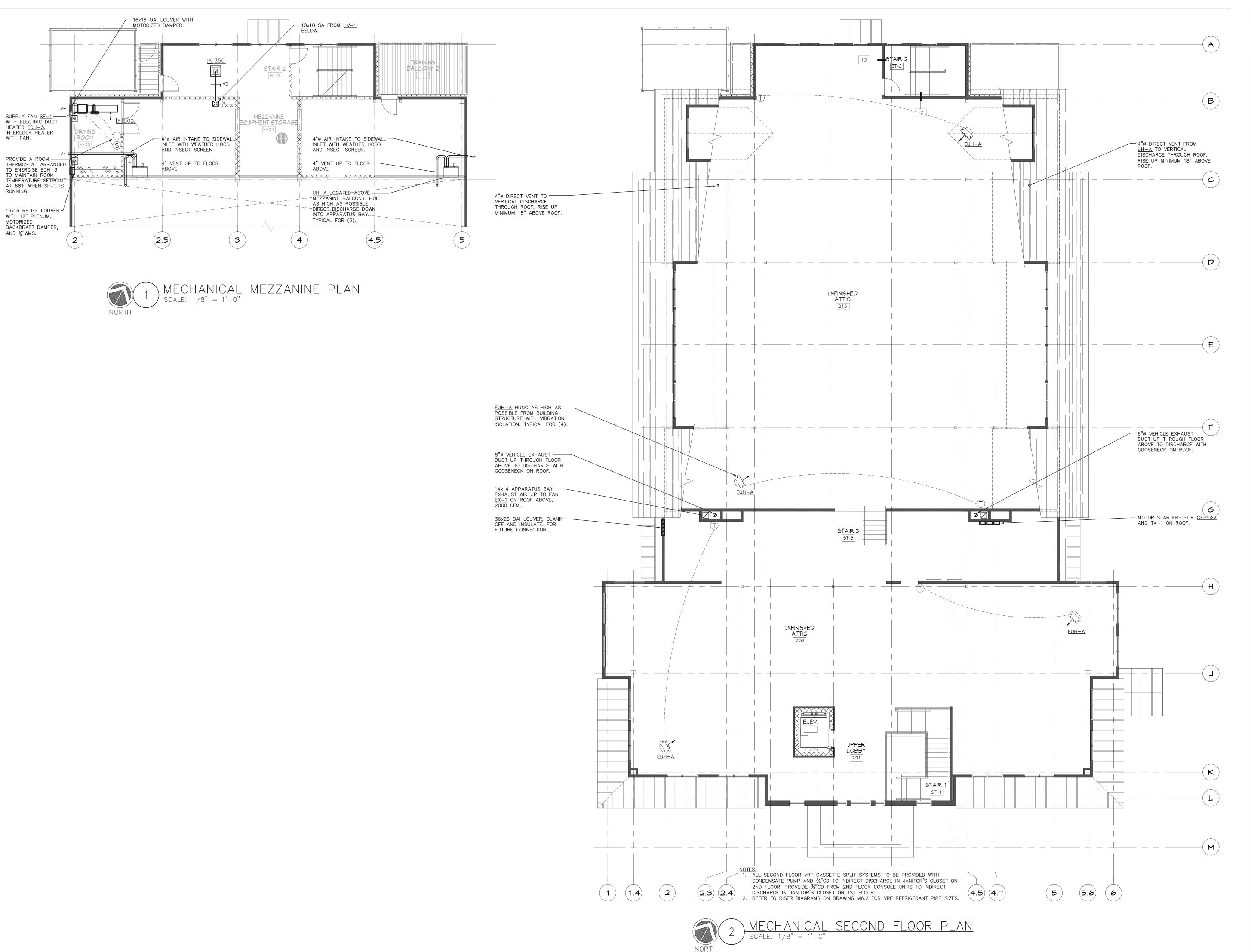
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Date Issue

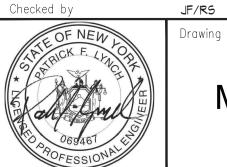
Project Title

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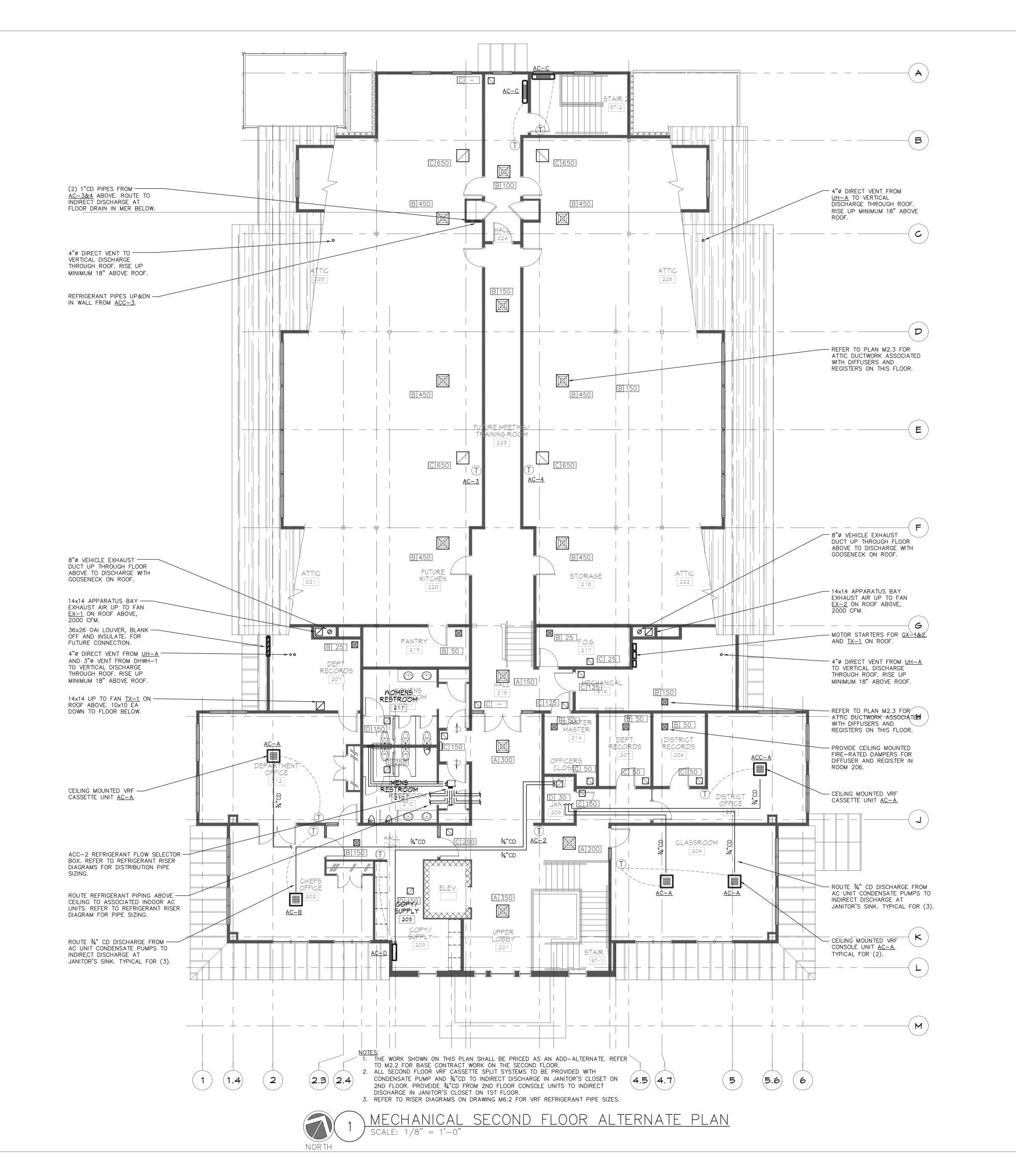
550 Old Post Road Bedford, NY 10506

Drawing Title MECHANICAL MEZZANINE & SECOND FLOOR PLAN

Project No.	NSPC0070.00
Date	03-27-20
Scale	AS NOTED
Drawing by	JRT



M2.2



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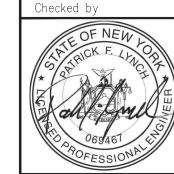
Project Title

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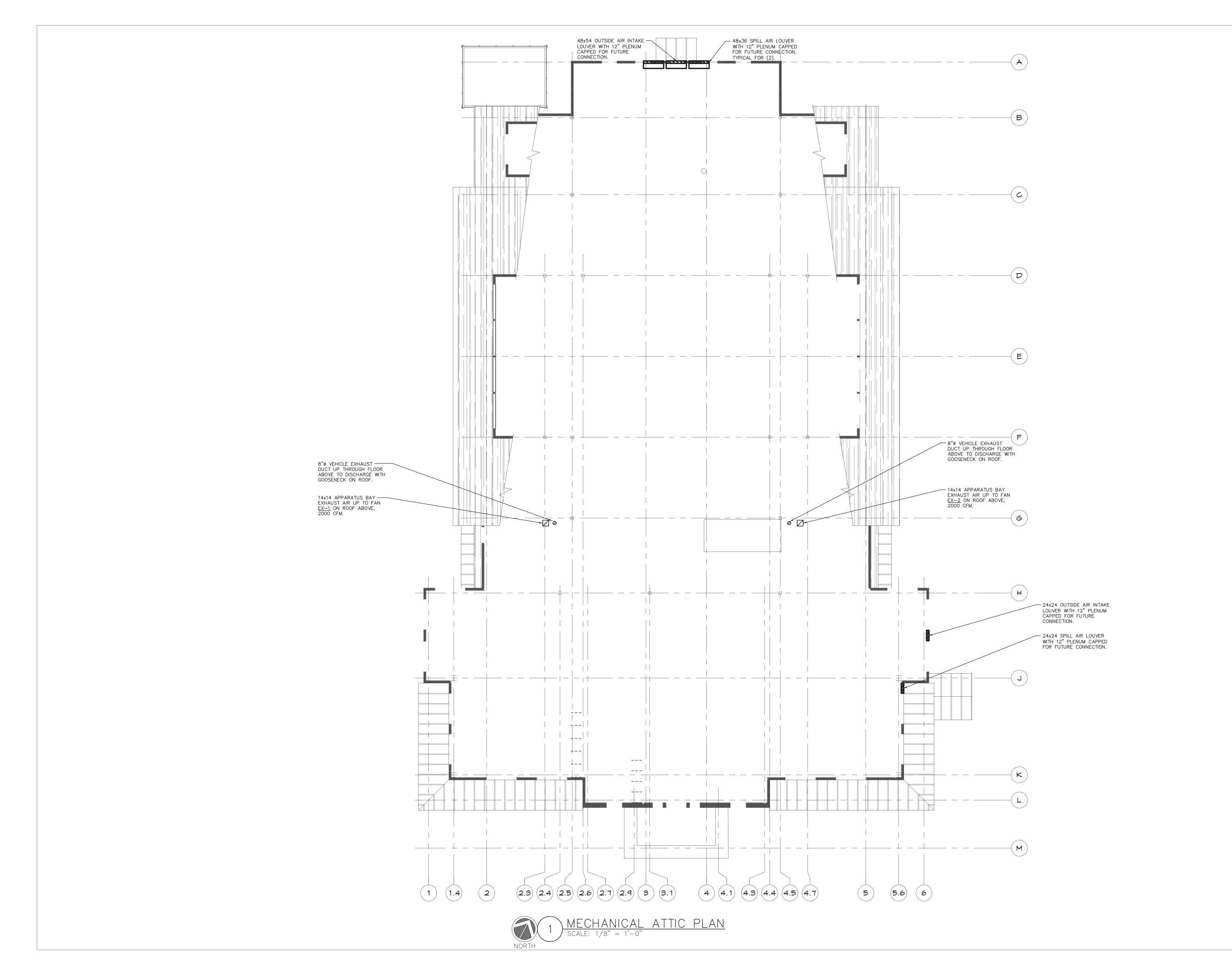
MECHANICAL SECOND FLOOR ALTERNATE PLAN

Project No.	NSPC0070.00
Date	03-27-20
Scale	AS NOTED
Drawing by	JRT



JF/RS
Drawing No.

M2.2A



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Drawing Title

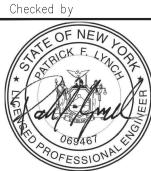
MECHANICAL ATTIC PLAN

Project No. NSPC0070.00

Date 03-27-20

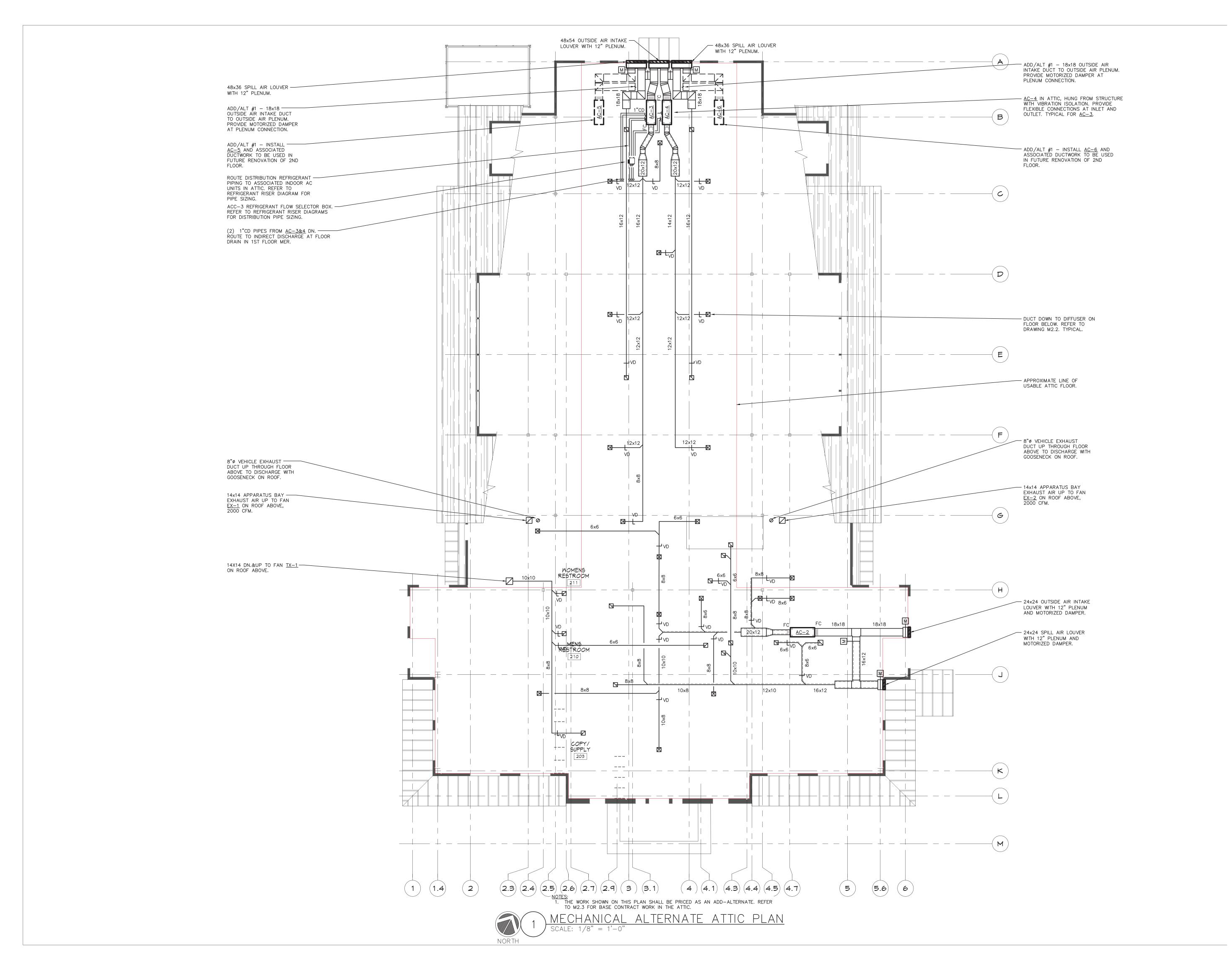
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Drawing No.

M2.3



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Bedford Fire Headquarters

550 Old Post Road Bedford, NY 10506

MECHANICAL ATTIC
ALTERNATE PLAN

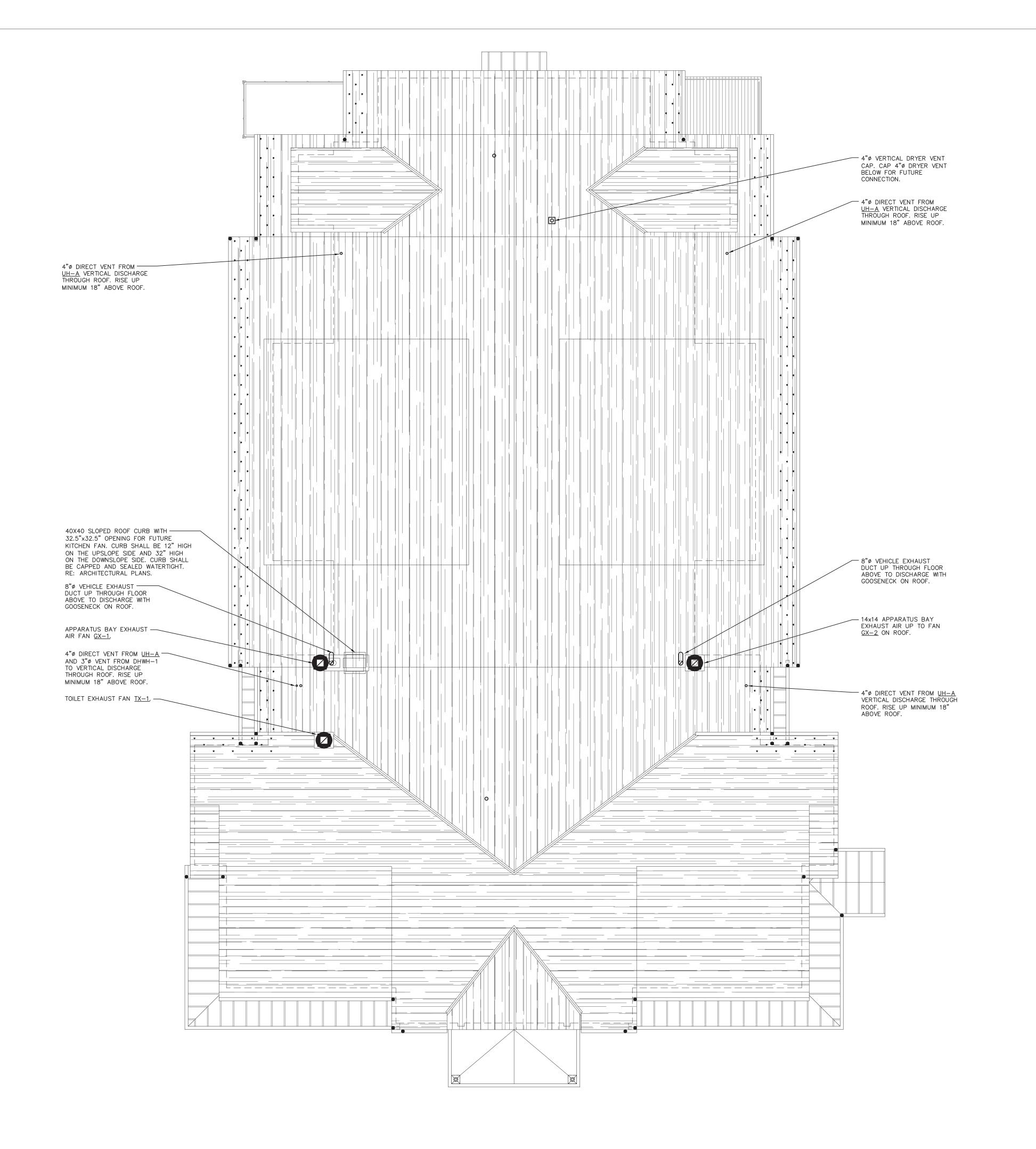
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Drawing No.

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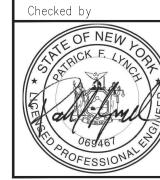
Drawing Title
MECHANICAL ROOF PLAN

Project No. NSPC0070.00

Date 03-27-20

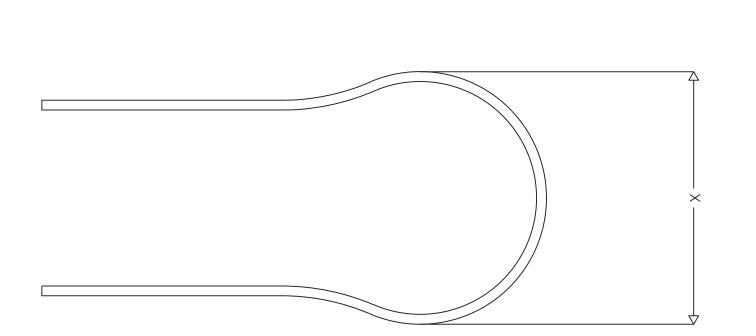
Scale AS NOTED

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Drawing No.

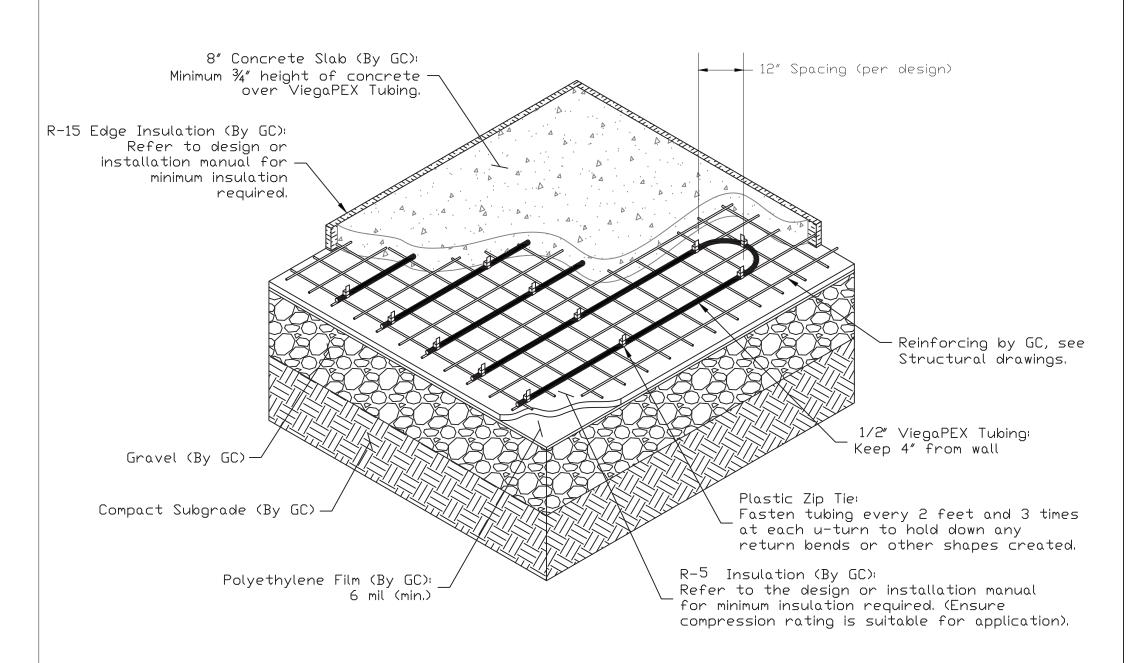
M2.4



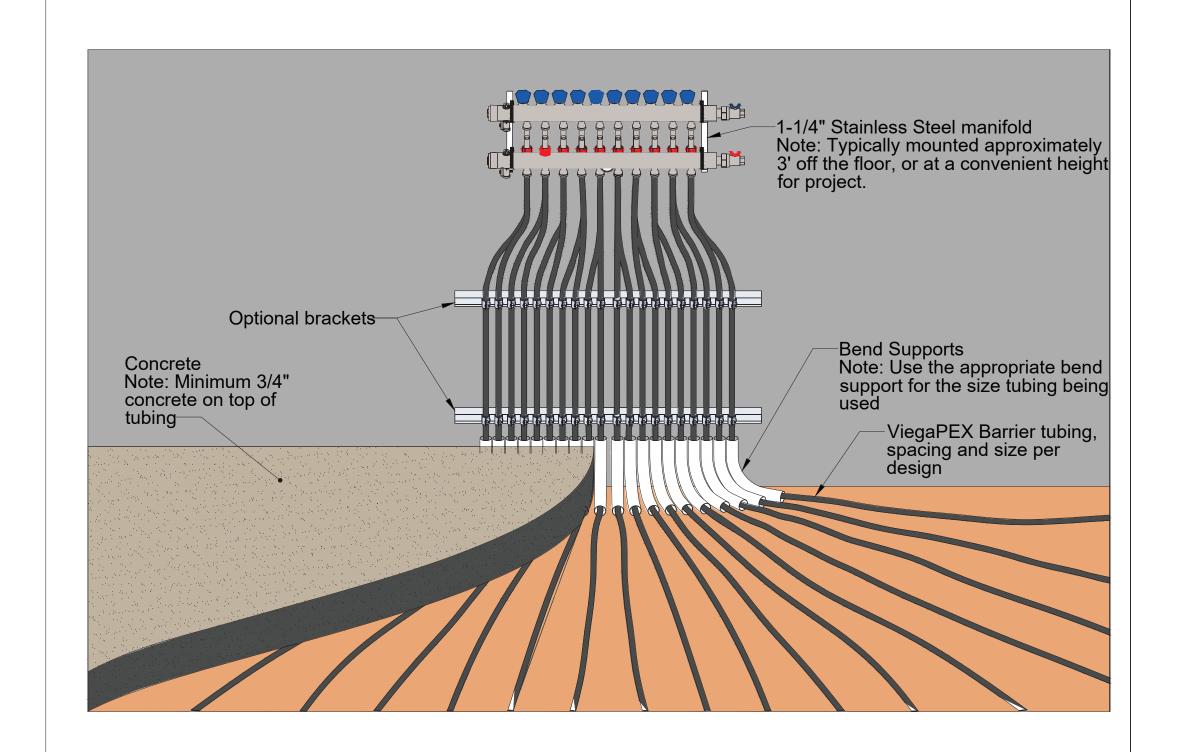
Tube Spacing When the tube spacing is less than the minimum bending dimension, the loops ends should be swept out to at least

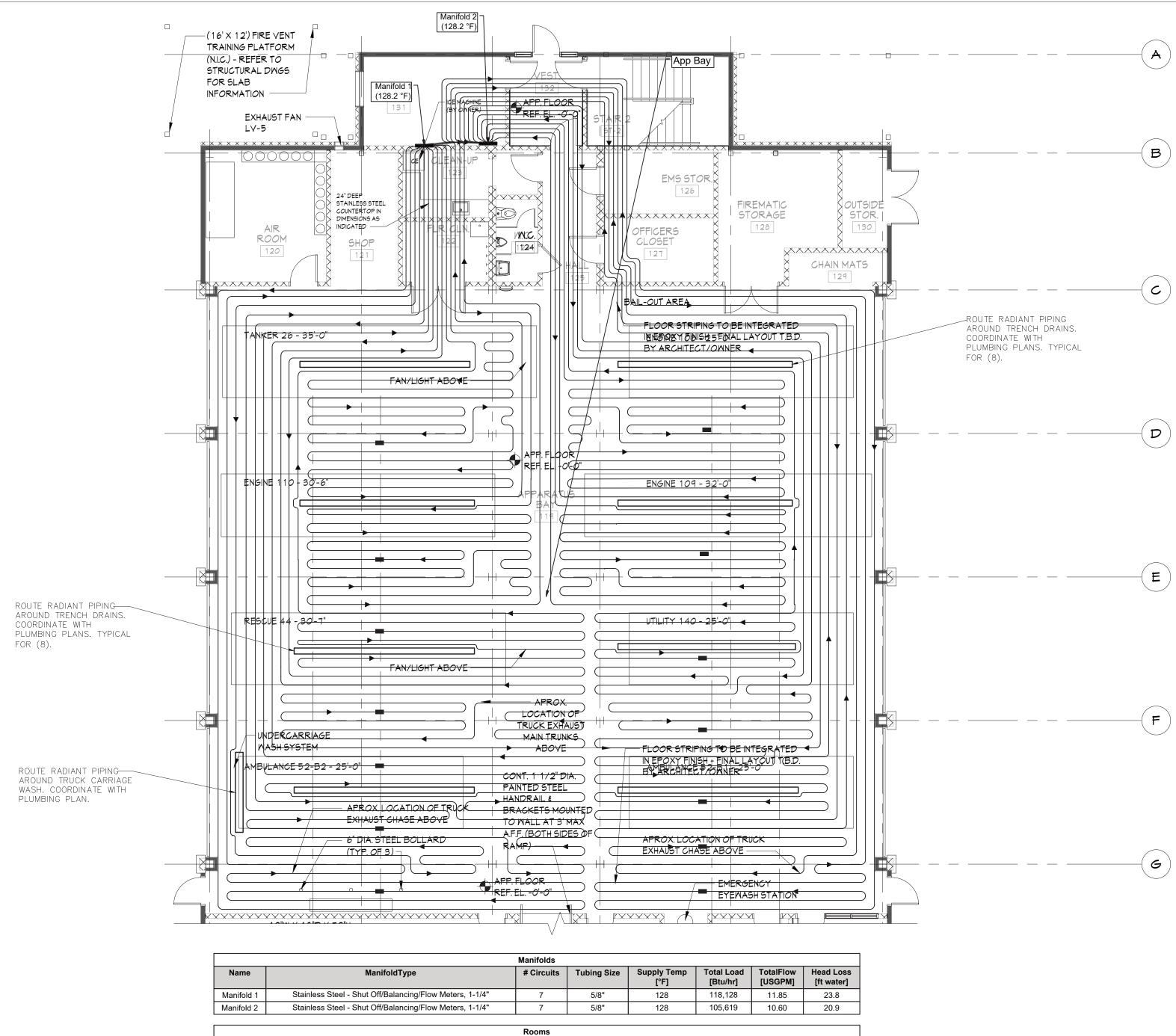
the dimension shown. Otherwise, if tube spacing is equal or greater than "X", a standard loop may be used.

Tubing Size	With the Coil
5/16"	7″
3/8″	8"
1/2"	10"
5/8″	12"
3/4"	14"
1"	18"
1 1/4"	22"
1 1/2"	26"
2"	34"



Section Through Slab On Or Below Grade Installation Using Plastic Zip Ties





	Manifolds														
Name			ManifoldType		# Circuits	Tubing Size	Supply Tem [°F]	Total Load [Btu/hr]	TotalFlow [USGPM]	Head Loss [ft water]					
Manifold	1 Stain	ess Ste	el - Shut Off/Balancing/F	ow Meters, 1-1/4"	7	5/8"	128	118,128	11.85	23.8					
Manifold	2 Stain	ess Ste	el - Shut Off/Balancing/F	ow Meters, 1-1/4"	7	5/8"	128	105,619	10.60	20.9					
	Rooms														
Name	ame Heating Zone Area Heating Room Temp Req. Surface Temp FI		Floor Cover R [R]	Panel Type	Heat Loss [Btu/hr]	Panel Backloss	Total Load [Btu/hr]	Supplementa							
App Bay	101	5,263	65	85	0.0	Embedded Slab	210,510	20,341	230,850	6,387					

			Circ	uit Inform	ation			
Number	Manifold	Rooms	Tube Size	Spacing [in]	Length [ft]	Flow [USGPM]	Head Loss [ft water]	Actuator
M1.1	Manifold 1	App Bay	5/8"	12	417	1.66	15.5	No
M1.2	Manifold 1	Арр Вау	5/8"	12	427	1.73	17.1	No
M1.3	Manifold 1	App Bay	5/8"	12	431	1.73	17.4	No
M1.4	Manifold 1	App Bay	5/8"	12	435	1.75	17.8	No
M1.5	Manifold 1	App Bay	5/8"	12	421	1.67	15.9	No
M1.6	Manifold 1	App Bay	5/8"	12	415	1.64	15.2	No
M1.7	Manifold 1	App Bay	5/8"	12	418	1.67	15.8	No
M2.1	Manifold 2	App Bay	5/8"	12	436	1.41	12.2	No
M2.2	Manifold 2	App Bay	5/8"	12	433	1.44	12.6	No
M2.3	Manifold 2	App Bay	5/8"	12	426	1.45	12.6	No
M2.4	Manifold 2	App Bay	5/8"	12	424	1.52	13.6	No
M2.5	Manifold 2	Арр Вау	5/8"	12	418	1.54	13.6	No
M2.6	Manifold 2	App Bay	5/8"	12	418	1.60	14.7	No
M2.7	Manifold 2	App Bay	5/8"	12	429	1.63	15.5	No

MECHANICAL FIRST FLOOR RADIANT PLAN

SCALE: 1/8" = 1'-0"

Sullivan Architecture, P.C.

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Bedford Fire Headquarters

550 Old Post Road Bedford, NY 10506

MECHANICAL FIRST FLOOR RADIANT PLAN

Project No.	NSPC0070.00
Date	03-27-20
Scale	AS NOTED
Drawing by	JRT



M3.1

JF/RS

			FAN SCHE	DULE				
DESIGNATION	TX-1	TX-2	GX-1&2	GS-1&2	VEF-1&2	SF-1	EF-1	
LOCATION ROOF WC 124		ROOF	MER 131	APPARATUS BAY	DRYING ROOM	AIR ROOM		
AREA SERVED	TOILET ROOMS	WC 124	APPARATUS BAY	APPARATUS BAY	VEHICLE EXHAUST	DRYING ROOM	AIR ROOM	
MANUFACTURER	GREENHECK	GREENHECK	GREENHECK	GREENHECK	PLYMOVENT	GREENHECK	GREENHECK	
MODEL	GB-141HP	SP-B70	GB-141	BSQ-140	TEV-3110	SQ-90-G	SS1-16-436-A	
WEIGHT (LBS)	64				40.5	49	63	
FAN TYPE	GETRIFUGAL	CENTRIFUGAL	GETRIFUGAL	INLINE GETRIFUGAL	CENTRIFUGAL	INLINE CENTRIFUGAL	SIDEWALL	
DRIVE TYPE	BELT	DIRECT	BELT	BELT	DIRECT	DIRECT	DIRECT	
CFM	1210	50	2000	2000	2000	200	3200	
BHP	.38	.01	.76	.6	2.75	.04	0.79	
HP	.5	16 WATTS	1	.75	3	1/25	1	
RPM	1508	675	1483	1364	3460	1300	1,750	
SP (IN H ₂ O)	1	.25	1	.75	3.2	0.25	0.5	
VOLTS/ø/Hz	208/1/60	120/1/60	208/3/60	208/1/60	208/3/60	120/1/60	208/1/60	
STARTER TYPE	НОА	НОА	VFD	VFD	VFD	НОА	НОА	
STARTER LOCATION	MER 216	MER 131	MER 216	STORAGE 129	MER 114	DRYING ROOM	AIR ROOM	
NOTES:	•	•		•	•		•	

- . ALL MOTORS 1 HP OR GREATER SHALL BE PREMIUM EFFICIENCY.
- 2. ALL MOTORS FURNISHED WITH VARIABLE FREQUENCY DRIVES SHALL BE INVERTER DUTY RATED & APPROVED FOR VARIABLE SPEED AND
- TORQUE APPLICATIONS.
- 3. FURNISH RUBBER IN SHEAR OR SPRING VIBRATION ISOLATORS AS PER THE SPECIFICATION.
- 4. FURNISH WALL MOUNTED SPEED CONTROLLER OR THERMOSTAT AS INDICATED ON PLAN.
- 5. FURNISH MOTOR AND BELT GUARDS FOR ALL EXTERNAL MOTOR DRIVES.
- . MOTOR STARTER AND DISCONNECT SWITCH FOR EACH FAN SHALL BE FURNISHED BY THE MECHANICAL CONTRACTOR AND INSTALLED BY THE ELECTRICAL CONTRACTOR. EACH ROOFTOP FAN SHALL BE FURNISHED WITH WEATHERPROOF UNIT-MOUNTED LOCAL DISCONNECT SWITCH.
- 7. ALL TX AND EX FANS SHALL HAVE ECM MOTORS.
- 3. FOR EF-1 PROVIDE WALL HOUSING MOUNTING OPTION WITH BACKDRAFT DAMPER AND WEATHER HOOD WITH $lac{1}{2}$ "WMS.

	DIFFUSER, REGISTER, GRILLE SCHEDULE														
ID	А	В	С	D	E	F									
MANUFACTURER	TITUS	TITUS	TITUS	TITUS	TITUS	TITUS									
DESIGNATION	CD	CD	RR	ER	SR	RR									
MODEL	OMNI-AA	TDC	355FL	355FL	300FL	355FL									
SIZE	24x24	12x12	24x24 OR 12x12	8x8	8x8 12x8										
TYPE	CEILING SUPPLY	CEILIGN SUPPLY	CEILING RETURN	EXHAUST	SIDEWALL SUPPLY	SIDEWALL RETURN									
DESCRIPTION	ALL—ALUMINUM PLAQUE FACE DIFFUSER FOR USE IN ARCHITECTURAL CEILINGS.	FACE OR USE CONSTRUCTION, CCTURAL STEEL CONSTRUCTION, WITH ½" SPACING, 35° FIXED DEFLECTION		ALUMINUM CONSTRUCTION, WITH ½" SPACING, 35° FIXED DEFLECTION AIRFOIL BLADES.	ALUMINUM CONSTRUCTION, WITH ¾" SPACING, DOUBLE DEFLECTION SUPPLY GRILLE.	ALUMINUM CONSTRUCTION, WITH ½" SPACING, 35° FIXED DEFLECTION AIRFOIL BLADES.									
NOTES	NOTES 1,2,3,4,5 1,2,3,4,5			1,2,3,4,5 1,2,3,4,5 1,2,3,4,5											

- BAKED ENAMEL FINISH: COORDINATE COLOR WITH ARCHITECT.
- PROVIDE OPPOSED BLADE VOLUME DAMPER IN NECK.
- COORDINATE MOUNTING FRAME WITH CEILING/WALL CONSTRUCTION & PROVIDE SURFACE LAY-IN AS REQUIRED.
- . NOISE CRITERION SHALL BE KEPT <30 NC. 5. NECK SIZE SHALL BE ACCORDING TO NECK SCHEDULE.

- NECK SCHEDULE: |6"ø | 75 − 195 CFM
- 8"ø | 196 310 CFM
- 10"ø | 311 435 CFM 12"ø | 436 - 600 CFM
- 14"ø | 601 750 CFM
- |15"ø | 751 850 CFM

EQUIPMENT NOTES

- 13. RECESSED ELECTRIC CABINET UNIT HEATER (ECUH-B): SHALL BE INDEECO MODEL WRI, CATALOG NUMBER 930U00750V RATED AT 563 WATTS, 208V/1PH/60HZ, 2.9 AMPS, 40 CFM, PROVIDE DISCONNECT SWITCH AND ADJUSTABLE THERMOSTAT WITH OFF POSITION. SUBMIT COLOR CHART FOR ARCHITECTURAL APPROVAL.
- 14. <u>ELECTRIC DUCT HEATER EDH-1&2</u>: SHALL BE GREENHECK MODEL IDHC, 32 KW, 208V/3φ/60HZ, 90 FLA, 2000 CFM, 50° AIR TEMP RISE. FURNISH THE FOLLOWING CONTROL OPTIONS: SCR CONTROL, DISCONNECT SWITCH, FAN INTERLOCK WITH GS-1, DUCT THERMOSTAT ARRANGED TO PROVIDE 60°F AIR. INTERLOCK WITH FAN GS-1 SO THAT HEATER ONLY OPERATES WHILE FAN GS-1 IS RUNNING, AS NECESSARY TO MAINTAIN AIR DISCHARGE TEMPERATURE MINIMUM OF 50°F.
- 15. ELECTRIC DUCT HEATER EDH-3: SHALL BE GREENHECK MODEL IDHC, 5 KW, 208V/3φ/60HZ, 14 FLA, 200 CFM, 80° AIR TEMP RISE. FURNISH THE FOLLOWING CONTROL OPTIONS: SCR CONTROL, DISCONNECT SWITCH, FAN INTERLOCK WITH SF-1, DUCT THERMOSTAT ARRANGED TO PROVIDE 60°F AIR. INTERLOCK WITH FAN SF-1 SO THAT HEATER ONLY OPERATES WHILE FAN <u>SF-1</u> IS RUNNING, AS NECESSARY TO MAINTAIN AIR DISCHARGE TEMPERATURE MINIMUM OF 80°F.
- 16. HORIZONTAL DISCHARGE HOT WATER UNIT HEATER (HWUH-A): SHALL BE VULCAN MODEL HV-118A, HORIZONTAL DISCHARGE CONFIGURATION, RATED AT 9.2 MBH, 1.9 GPM, 140°F EWT, 120°F LWT, 2.2' WPD (FT H₂O), 500 CFM. MOTOR SHALL BE RATED AT 16 WATTS, 1550 RPM, 0.8 AMPS, 1.0 MCA, 15 MOCP, 115V/1φ/60HZ. PROVIDE WALL THERMOSTAT, FAN GUARD, AND AIR DEFLECTION LOUVER. HANG UNIT FROM BUILDING STRUCTURE WITH VIBRATION ISOLATORS. FURNISH DISCONNECT SWITCH.
- 17. <u>HOT WATER EXPANSION TANK (ET-1):</u> SHALL BE AMTROL MODEL AX-15V-DD, 12" DIAMETER, 22" HIGH, 8 GALLONS, WITH 3/4" NPT SYSTEM CONNECTION, 3/4" NPT CHARGING VALVE, 3/4" DRAIN PLUG, 240°F MAX OPERATING TEMPERATURE, 125 PSI MAX WORKING PRESSURE, FACTORY PRE-CHARGED TO 12 PSIG. UNIT SHALL BE MANUFACTURED IN ACCORDANCE WITH ASME SECTION VIII.
- 18. CO & NO, DETECTION SYSTEM: SHALL BE SIERRA MONITOR CORPORATION. PROVIDE SENTRY 5000-IT CONTROLLERS (SEE PLANS FOR LOCATION) WITH NATIVE BACNET INPUT/OUTPUT. CONTROL PANELS SHALL BE LINKED TO BMS. ALL SPACE TRANSMITTERS SHALL BE MOUNTED 5'-0" AFF IN A PROTECTED LOCATION. PROVIDE LIGHT/HORN STROBE AS INDICATED ON PLAN TO BE ENERGIZED UPON LEVEL "HIGH HIGH" ALARM. PROVIDE SIGNAGE "CO & NO2 DETECTION" NEAR HORN STROBE
- CO TRANSMITTERS SHALL BE 5100-04-IT-S1-01-00-0-C • NO₂ TRANSMITTERS SHALL BE 5100-12-IT-S1-01-00-0-C
- 19. VEHICLE EXHAUST RAIL SYSTEM: SHALL BE BASED ON PLYMOVENT EXHAUST RAIL SYSTEM COMPOSED OF (8) VSRX RAILS MOUNTED BELOW THE OPEN GARAGE DOOR PATH & LENGTH NOTED ON PLAN, (8) FLEXIBLE HOSES WITH TROLLEY FOR MOUNTING TO RAIL. 6" 40' LONG HOSES CAPABLE OF 600°F CONTINUOUS & 1250°F INTERMITTENT. 400°F TEMPERATURE RESISTANCE ON ALL COMPONENTS. FANS (VX-1&2) SHALL BE TEV-3110 AS NOTED IN SCHEDULE ON THIS PLAN. PROVIDE VFD FOR FAN MOTOR. PROVIDE (2) NTX NEMA 4X WALL MOUNT TRANSMITTERS WITH 433 MHz RCRC-3R RECEIVER MOUNTED TO FAN VFD. PROVIDE ALL SUPPORTS AND HANGERS AS REQUIRED. REFER TO MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR DETAILS. COORDINATE WITH ALL PIPING, EQUIPMENT, GARAGE DOORS, ETC IN APPARATUS BAY.
- 20. <u>HEAVY DUTY LOUVERS</u>: SHALL BE RUSKIN MODEL L26, 6" DEEP, WITH 47% FREE AREA, OPTIONAL 16 GAGE STEEL CONSTRUCTION, CHEVRON STYLE BLADES AT 3-1/2" SPACING, 6" DEEP STEEL FRAME. REFER TO PLANS FOR SIZE. COORDINATE INSTALLATION REQUIREMENTS WITH ARCHITECTURAL PLANS. ANODIZED CUSTOM COLOR TO BE SELECTED BY ARCHITECT. COORDINATE WITH ARCHITECTURAL PLANS.
- 21. ELECTRIC UNIT HEATERS (EUH-A): SHALL BE MARKEL MODEL F3FUH07C03, RATED AT 575 CFM, 25.6 MBH, 7.5 kW, 208V/3b/60Hz, 20.8 AMPS. PROVIDE THE FOLLOWING OPTIONS: FAN GUARD, AIR DEFLECTION LOUVER, SUMMER FAN SWITCH, HEAT PURGE FAN DELAY SWITCH, DISCONNECT SWITCH, & WALL THERMOSTAT.
- 22. <u>VERTICAL DRYER VENT CAP</u>: SHALL BE SIMILAR TO DRYERJACK MODEL 466.

EQUIPMENT NOTES

- <u>ELECTRIC CABINET UNIT HEATER (ECUH-A)</u>: UNIT SHALL BE BASED ON MARKEL MODEL F30522T2DWB RECESSED TYPE COMMERCIAL FAN FORCED WALL HEATER. BUILT IN TAMPERPROOF THERMOSTAT, THERMAL OVERLOAD CUTOFF, FAN DELAY SWITCH. UNIT SHALL BE RATED ACCORDING TO THE FOLLOWING SPECIFICATIONS:
 - A. FAN CFM: 100 B. ELECTRIC COIL CAPACITY: 7.7 MBH
 - C. kW: 1.5
 - D. VOLTS/PH/HZ: 208/1/60
 - E. AMPS: 10.8 F. FURNISH DISCONNECT SWITCH WITH EACH UNIT.
- 2. <u>LOUVERS:</u> SHALL BE RUSKIN MODEL ELF375DX, 4" DEEP, WITH 54% FREE AREA, 6063T5 EXTRUDED ALUMINUM DRAINABLE BLADES AT 37.5° AND 5-3/32" SPACING, 4" DEEP 6063T5 EXTRUDED ALUMINUM FRAME. AND 1/2" GALVANIZED STEEL BIRD SCREEN. MINIMUM LOUVER SIZE 12"x12". ANODIZED CUSTOM COLOR TO BE SELECTED BY ARCHITECT. COORDINATE WITH ARCHITECTURAL PLANS.
- GAS-FIRED UNIT HEATERS (GFUH-A): SHALL BE MODINE MODEL HDS-125, 125 MBH INPUT, 102.5 MBH OUTPUT. UNITS SHALL BE DIRECT-VENT SEPARATED COMBUSTION TYPE WITH 4"Ø FLUE OUTLET, 4"Ø AIR INLET, AND 1/2"Ø GAS CONNECTION. FAN SHALL BE 1/8 HP, 1625 RPM. ELECTRICAL REQUIREMENTS: 120V/16/60HZ. PROVIDE PROPANE CONVERSION KIT AND LOCAL DISCONNECT SWITCH. FURNISH WITH SINGLE-STAGE, DIRECT SPARK IGNITION CONTROLS, WITH 100% SHUT-OFF AND CONTINUOUS RETRY. PROVIDE ELECTRIC WALL THERMOSTAT AND CONDENSATE NEUTRALIZING KIT.
- 4. <u>GAS-FIRED HOT WATER BOILER (B-1)</u>: SHALL BE WEIL MCLAIN EVG-299, STAINLESS STEEL FIRE-TUBE CONDENSING HOT WATER BOILER, RATED AS FOLLOWS:
 - 299 MBH PROPANE GAS INPUT.
 - 280 MBH GROSS OUTPUT.
 - 140°F MAXIMUM SUPPLY WATER TEMPERATURE.
 - 160 PSI MAXIMUM OPERATING PRESSURE.
 - 208V/1Ph/60Hz • 10-T0-1 TURNDOWN RATIO
- FURNISH THE FOLLOWING FEATURES & OPTIONS: WALL—MOUNT KIT.
- BOILER DIGITAL CONTROL PACKAGE
- 1-1/2"\darksquare HOT WATER INLET & OUTLET CONNECTIONS.
- 1" CONDENSATE DRAIN • 3"ø DIRECT VENT CONNECTIONS.
- CONDENSATE NEUTRALIZER KIT SIDEWALL VENT/AIR TERMINATION KIT
- PROPANE CONVERSION KIT
- BOILER CIRCULATOR TACO 0014 DISCONNECT SWITCH
- PRIMARY HOT WATER PUMP P-1: SHALL BE ARMSTRONG MODEL 4380 0103-000.3 CLOSE COUPLED VERTICAL IN-LINE CENTRIFUGAL PUMP RATED AT 29 GPM, 25' TDH, .333 HP, 208V/1PH/60HZ, 1675 RPM. PROVIDE DISCONNECT SWITCH.
- <u>CONDENSATE PUMP (CP-1):</u> SHALL BE LITTLE GIANT MODEL VCM-20ULS, RATED AT 25 GPH @ 15' HEAD, WITH 1/2 GALLON TANK, 3/8" DISCHARGE CONNECTION, & SHUT-OFF AT 20' HEAD. MOTOR SHALL 1/30 HP, 93 WATTS, 115V/1φ/60Hz, 1.5 AMPS. INCLUDE THE FOLLOWING OPTIONS: SAFETY SWITCH, 6' POWER CORD, THERMAL OVERLOAD PROTECTOR, NYLON SUMP PAN, POLYPROPYLENE CONTROL FLOAT, BUILT-IN CHECK VALVE, FILTER SCREEN, STAINLESS STEEL SHAFT. PUMP SHALL BE ARRANGED TO SHUT DOWN AC UNIT IF THE SAFETY SWITCH DETECTS NO FLOW. PROVIDE DISCONNECT SWITCH.
- OUTSIDE AIR INTAKE FOR GAS FIRED EQUIPMENT: FOR ALL GAS FIRED DIRECT VENTING CONDENSING & NON-CONDENSING APPLIANCES SHALL BE SINGLE-WALL SPIRAL GALVANIZED STEEL BY SHEET METAL CONNECTORS, INC. ALL DUCTWORK IS 4-PLY SPIRAL LOCKSEAM MEETING ASTM A-653. ALL DUCT CONNECTIONS SHALL BE MADE WITH A DOUBLE LEGGED EPDM GASKET CREATING AN AIR-TIGHT CONNECTION MEETING ASTM A-653. SINGLE-WALL DUCT GUAGE SHALL BE SELECTED FOR POSITIVE, NEUTRAL, AND NEGATIVE DRAFT UP TO 15"WC WITH A MINIMUM GAUGE OF 24. PRODUCT IS RATED FOR ZERO CLEARANCE TO COMBUSTIBLES. PROVIDE STRAIGHT SECTIONS, ELBOWS, OFFSETS, CONNECTION ADAPTERS, WALL SLEEVES, AND SCREENED TERMINATIONS.
- 8. LISTED SPECIAL GAS VENTING FOR GAS FIRED EQUIPMENT: SHALL BE HEATFAB "SAF-T VENT CI PLUS". DOUBLE WALL CONSTRUCTION, 1" FIBERGLASS INSULATION, AL-29-4C STAINLESS STEEL. SPECIAL VENT UL 1738 FOR POSITIVE, NEUTRAL, AND NEGATIVE DRAFT UP TO 15"WC. PRODUCT IS RATED FOR ZERO CLEARANCE TO COMBUSTIBLES. PROVIDE STRAIGHT SECTIONS, ELBOWS, OFFSETS, CONNECTION ADAPTERS, WALL SLEAVES, AND SCREENED TERMINATIONS.
- 9. <u>AIR SEPARATOR:</u> SHALL BE ARMSTRONG MODEL 1"-ASL, 350°F MAXIMUM WORKING TEMPERATURE, 125 PSIG MAXIMUM WORKING PRESSURE, 1" INLET & OUTLET CONNECTIONS, 3/4" NPT AIR OUTLET, 3/4" NPT DRAIN. UNIT SHALL BE MANUFACTURED IN ACCORDANCE WITH ASME CODE. PROVIDE AUTOMATIC AIR ELIMINATOR, ARMSTRONG MODEL AAE-750, WITH 250°F MAXIMUM OPERATING TEMPERATURE, 2-133 PSIG AIR PRESSURE OPERATING RANGE, 100% SPRING ACTION POSITIVE SHUTOFF, 3/4" NPT SYSTEM CONNECTION.
- 10. RADIANT MANIFOLD #1&2: SHALL BE VIEGA STAINLESS STEEL MANIFOLD (PART #15906) INCLUDING 8 OUTLETS, 1" CONNECTIONS, SHUTOFFS, AND BALANCING VALVES.
- 11. RADIANT MIXING STATION #1&2: SHALL BE VIEGA HIGH HEAD MIXING STATION PART #12127, INCLUDING BALL VALVE SHUT OFF VALVES, BALANCING VALVES, 3-WAY DIVERTING OR MIXING VALVE, SENSOR WELL, STRAP ON TEMPERATURE SENSOR, TEMPERATURE AND PRESSURE GAUGE, SECONDARY 3-SPEED CIRCULATOR PUMP (HWCP-1&2) RATED AT 12 GPM @ 22' HEAD, 120V/1ø/60Hz.
- 12. <u>APPARATUS BAY DUCT-MOUNTED EXHAUST GRILLE</u>: SHALL BE TITUS MODEL US-DL SPIRAL DUCT DRUM LOUVER, ALUMINUM CONSTRUCTION, OPPOSED BLADE VOLUME DAMPER OPTION AG-15-HD, 24x10, CFM AS NOTED ON PLANS. FINISH SHALL BE BAKED ON ENAMEL. SUBMIT COLOR CHART TO ARCHITECT FOR APPROVAL. FRAME SHALL BE SUITABLE SURFACE MOUNTING ON ROUND SPIRAL DUCTWORK.

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> Bedford Village Fire District 34 Village Green

Bedford, NY 10506

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Date Issue 03.10.20 MEETING

03.27.20 DESIGN DEVELOPMENT 05.07.20 PROGRESS

05.08.20 CD PROGRESS SET

01.15.21 ISSUED FOR BID

05.28.20 CD PROGRESS SET 06.30.20 CD REVIEW SET

09.01.20 CONSTRUCTION PROGRESS 09.15.20 ICC SUBMISSION

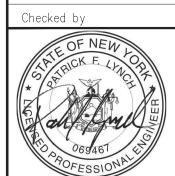
Project Title

Bedford Headquarters

550 Old Post Road Bedford, NY 10506

MECHANICAL SCHEDULES & EQUIPMENT NOTES

Project No. NSPC0070.00 Date 03-27-20 Scale AS NOTED Drawing by



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			~			ilation Ir irst Floo										
Room	Room Name	Area	Occ	upancy Type	Code			Zone	Design SA		EA	Design OA		Code OA		
No.		(sq.ft.)	Category	Туре	Pers./1000	No. of	OA CFM /	OA CFM /	Distribution	CFM	CFM /	CFM	%	CFM	CFM	CFM /
					sq.ft.	Occ.	Pers.	sq.ft.	Effectivness		sq.ft.		w/o Div.			sq.ft.
101	Lobby	317	Public Spaces	Corridors	0	0	0	0.06	0.8	350	1.1		40%	140	24	0.08
111	Electrical Room	98	storage	warehouses	0	0	0	0.06	8.0	50	0.5		40%	20	7	0.08
112	Decon Room	102	offices	office space	5	1	5	0.06	8.0	50	0.5		40%	20	14	0.14
113	Gear Room	618	storage	warehouses	0	0	0	0.06	8.0	400	0.6		40%	160	46	0.08
119	Apparatus Bay	5,300	storage	Enclosed parking garage	0	0	0	0.75	1.0	4000	8.0	4,000.0	100%	4,000	3,975	0.75
120	Air Room	198	storage	warehouses	0	0	0	0.06	8.0	300	1.5		40%	120	15	0.08
122	Floor Cleaning	64	storage	warehouses	0	0	0	0.06	8.0	75	1.2		40%	30	5	0.08
123	Clean-Up	72	storage	warehouses	0	0	0	0.06	8.0	75	1.0		40%	30	5	0.08
126	Ems Storage	87	storage	warehouses	0	0	0	0.06	8.0	75	0.9		40%	30	7	0.08
127	Officer's Closet	87	storage	warehouses	0	0	0	0.06	8.0	75	0.9		40%	30	7	0.08
128	Firematic Storage	173	storage	warehouses	0	0	0	0.06	0.8	100	0.6		40%	40	13	0.08

	Ventilation Index Second Floor															
Room	Room Name	Area	Occ	upancy Type			ode		Zone Design SA			EA	Desig	Design OA		e OA
No.		(sq.ft.)	Category	Туре	Pers./1000	No. of	OA CFM /	OA CFM /	Distribution	CFM	CFM /	CFM	%	CFM	CFM	CFM /
					sq.ft.	Occ.	Pers.	sq.ft.	Effectivness		sq.ft.		w/o Div.			sq.ft.
201	Upper Lobby	867	Public Spaces	Corridors	0	0	0	0.06	0.8	850	1.0		38%	323	65	0.08
203	Copy/Supply	278	Workrooms	Copy rooms	4	2	5	0.06	0.8	150	0.5		38%	57	33	0.12
206	District Records	99	storage	warehouses	0	0	0	0.06	0.8	50	0.5		38%	19	7	0.08
213	Officer's Closet	89	storage	warehouses	0	0	0	0.06	8.0	50	0.6		38%	19	7	0.08
214	Quarter Master	99	storage	warehouses	0	0	0	0.06	0.8	50	0.5		38%	19	7	0.08
216	Mechanical Room	274	storage	warehouses	0	0	0	0.06	0.8	150	0.5		38%	57	21	0.08
217	F.O.G.	98	storage	warehouses	0	0	0	0.06	0.8	25	0.3		38%	10	7	0.08
218	Unfinished Attic	2,667	storage	warehouses	0	0	10	0.06	0.8	1350	0.5		15%	203	200	0.08
219	Hall	497	Public Spaces	Corridors	0	0	0	0.06	0.8	300	0.6		15%	45	37	0.08
220	Unfinished Attic	2,549	storage	warehouses	0	0	0	0.06	0.8	1350	0.5		15%	203	191	0.08
222	Hall	168	Public Spaces	Corridors	0	0	0	0.06	0.8	100	0.6		38%	38	13	0.08

Room	Room Name	Area	Natural	Ventilation	
No.		(sq.ft.)	Openable	%	
			Area	floor area	
205	District Office	333	45	13.5%	
204	Classroom	485	60	12.4%	
201	Upper Lobby	893	22.5	2.5%	
203	copy/supply	279	7.5	2.7%	
202	chiefs office	390	60	15.4%	
212	department office	468	45	9.6%	
108	dispatch/radio	400	52.5	13.1%	
106	Day Room	762	75	9.8%	
103	Wellness	600	75	12.5%	
s per 20	As per 2018 IMC section 402.2, the minumum openable area to the outdoors shall be 4% of the flo				

FAN COIL UNIT SCHEDULE		
DESIGNATION:	HV-1	
LOCATION	MER 131	
MANUFACTURER	FIRST CO.	
MODEL	16MB	
UNIT DIMENSIONS — WIDTH x HEIGHT x DEPTH (IN)	23x42x20	
DESIGN DATA:		
SUMMER OA TEMP (°F) DB/WB	94/72	
WINTER OA TEMP (°F)	10	
FILTERS:		
TYPE	1" MERV 8	
HOT WATER COIL:		
face area (sq. ft.)		
No. OF ROWS/FINS PER INCH	² / ₁₂	
E.W.T./L.W.T. (°F)	149/110	
E.A.T./L.A.T. (°F)	44/85	
CAPACITY (MBH)	54	
GPM	3.6	
W.P.D. (FT H ₂ O)	2	
SUPPLY FAN:	'	
CFM	1200	
OAI CFM	525	
FAN MOTOR HP	1/2	
ESP (IN H ₂ O)	0.5	
VOLTS/Ø/Hz	208/1/60	
FLA/MCA/MOCP	8/-/-	

NOTES:

- PROVIDE THE FOLLOWING FEATURES & OPTIONS FOR EACH UNIT:

 UNITARY CONTROLLER BY AUTOMATIC TEMPERATURE CONTROLS MANUFACTURER, COMPATIBLE WITH THE BUILDING AUTOMATION SYSTEM.
- COORDINATE RIGHT-HAND/LEFT-HAND COIL CONNECTIONS IN THE FIELD.
- •KEY LOCK ACCESS DOORS.
- •FURNISH 2-WAY MODULATING CONTROL VALVE FOR EACH COIL, WITH PIPING PACKAGE AS PER DETAIL ON DRAWING M7.3. 5 PSI MAX AT CONTROL VALVE.
- FOR UNITS WITH OAI INLET: FREEZE STAT ARRANGED TO OVERRIDE THE COIL CONTROL VALVE & SHUT DOWN UNIT AS PER THE SEQUENCE OF OPERATIONS.

- WALL MOUNTED THERMOSTAT. • FACTORY FURNISHED LOCAL DISCONNECT SWITCH. • COIL AIR VENT. •(2) SETS OF SPARE FILTERS FOR EACH UNIT.

VRF SYSTEM - INDOOR UNIT SCHEDULE						
DESIGNATION	AC-1	AC-2	AC-3&4	AC-5&6		
LOCATION	MER 114	ATTIC	ATTIC	ATTIC		
MANUFACTURER	DAIKIN	DAIKIN	DAIKIN	DAIKIN		
MODEL	FXTQ60TAVJUD	FXTQ54TAVJUD	FXTQ60TAVJUD	FXTQ36TAVJUD		
WEIGHT OF UNIT (LBS)	167	167	167	150		
REFRIGERANT TYPE	R-410A	R-410A	R-410A	R-410A		
SUCTION PIPE SIZE (IN)	5/8	5/8	5/8	_		
LIQUID PIPE SIZE (IN)	3/8	3/8	3/8	_		
DESIGN DATA:	,		•			
SUPPLY AIR (CFM)	1500	1500	1500	_		
OUTDOOR AIR (CFM)	600	575	225	_		
RETURN AIR (CFM)	900	925	1275	_		
SUMMER OA TEMP (°F) DB/WB	92/74	92/74	92/74	_		
SUMMER RA TEMP (°F) DB/WB	78/65	78/65	78/65	_		
WINTER OA TEMP (°F)	10	10	10	_		
WINTER RA TEMP (°F)	70	70	70	_		
EVAPORATOR COIL (COOLING):	'					
E.A.T. (°F) DB/WB	8% ₇	8%7	8%7	_		
L.A.T. (°F) DB/WB	55.2/55	57/53.1	55.2/55	_		
CAPACITY (MBH) SENS./TOTAL	40.4/60	37.4/51.1	40.4/60	_		
EVAPORATOR COIL (HEATING):	'					
E.A.T. (°F) DB	68	68	68	-		
L.A.T. (°F) DB				_		
CAPACITY (MBH) SENS./TOTAL	70.6	63.3	70.6	_		
SUPPLY FAN:	'					
DESIGN AIRFLOW (CFM)	1500	1350		_		
HP	1	1	1	_		
ESP (IN H ₂ O)	.75	.75	.75	_		
ELECTRICAL DATA:	'					
VOLTS/ø/Hz	208/1/60	208/1/60	208/1/60	208/1/60		
MCA/MOCP (AMPS)	8.6/15	8.6/15	8.6/15	4.9/15		

NOTES: 1. FIELD SUPPLIED LOCAL DISCONNECT SWITCH AT EACH INDOOR UNIT SHALL BE FURNISHED BY THE

- MECHANICAL CONTRACTOR & INSTALLED BY THE ELECTRICAL CONTRACTOR.
- 2. UNIT SHALL INCLUDE INTERNAL CONDENSATE PUMP. 3. REMOTE DETECTION UNIT - TO BE FIELD INSTALLED IN THE INDOOR AC UNIT CASSETTE.
- CONNECTOR AND CONNECTOR PROTECTOR. 5. DETECTOR INSTALLATION KIT.
- 6. ALARM CONTACT ARRANGED TO SHUT DOWN AC UNIT UPON PUMP FAILURE.
- 7. (1) EXTRA SET OF FILTERS PER UNIT. 8. AC-5&6 ARE ADD/ALT #1 WORK ONLY.

VRF SYS	STEM - INC	OOR UNIT	SCHEDUL	E
INDOOR UNIT DESIGNATION	AC-A	АС-В	AC-C	AC-D
MANUFACTURER	DAIKIN	DAIKIN	DAIKIN	DAIKIN
MODEL	FXZQ12TAVJU	FXZQ18TAVJU	FXLQ12MVJU9	FXAQ18PVJI
TYPE	CEILING CASSETTE	CEILING CASSETTE	FLOOR CONSOLE	WALL MOUNT
COOLING CAPACITY (TOTAL)(MBH)	12,000	18,000	12,000	12,000
HEATING CAPACITY (MBH)	13,500	20,000	13,500	13,500
REFRIGERANT TYPE	R-410A	R-410A	R-410A	R-410A
LIQUID LINE (INCHES)	1/4	1/4	1/4	1/4
HOT GAS LINE (INCHES)	1/2	1/2	1/2	1/2
CONDENSATE LINE (INCHES)	3/4	3/4	3/4	3/4
CFM	350	500	280	500
VOLTS/ø/Hz	208/1/60	208/1/60	208/1/60	208/1/60
MCA (AMPS)	0.4	0.6	0.5	0.4

- . FIELD SUPPLIED LOCAL DISCONNECT SWITCH AT EACH INDOOR UNIT SHALL BE FURNISHED BY THE MECHANICAL CONTRACTOR & INSTALLED BY THE ELECTRICAL CONTRACTOR.
- 2. UNIT SHALL INCLUDE INTERNAL CONDENSATE PUMP POWERED THROUGH THE INDOOR UNIT. 3. REMOTE DETECTION UNIT — TO BE FIELD INSTALLED IN THE INDOOR AC UNIT CASSETTE.
- . CONNECTOR AND CONNECTOR PROTECTOR. DETECTOR INSTALLATION KIT.
- ALARM CONTACT ARRANGED TO SHUT DOWN AC UNIT UPON PUMP FAILURE.

VRF SYSTEM - OUTDOOR CONDENSING UNIT SCHEDULE

	100.4	400.0	100 7	
OUTDOOR UNIT DESIGNATION	ACC-1	ACC-2	ACC-3	ACC-4
MANUFACTURER	DAIKIN	DAIKIN	DAIKIN	DAIKIN
MODEL	RELQ144TATJU	RELQ120TATJU	RELQ192TATJU	RELQ72TATJU
REFRIGERANT TYPE	R-410A	R-410A	R-410A	R-410A
NOMINAL COOLING / HEATING CAPACITY (MBH)	144 / 162	120 / 135	192 / 216	72 / 81
LIQUID LINE (INCHES)	1/2	1/2	5/8	3/8
HOT GAS LINE (INCHES)	1-1/8	1-1/8	1-1/8	3/4
HIGH/LOW PRESSURE LINE (INCHES)	7/8	3/4	1-1/8	5/8
VOLTS/ø/Hz	208/3/60	208/3/60	208/3/60	203/3/60
MCA/MOCP	60.8 + 60.8 / 70 + 70	83.4/90	76.5 + 76.5 / 80 + 80	60.8/70
EER (NON-DUCTED/DUCTED)	12.9/12.6	13.7/12.4	12.5/12.7	_
IEER (NON-DUCTED/DUCTED)	22.5/18.6	23.4/19.6	22.4/19	_
COP (NON-DUCTED/DUCTED)	3.81/3.55	3.98/3.51	3.85/3.59	_
WEIGHT (LBS.)	1,452	793	1,586	727
HEIGHT x WIDTH x LENGTH (IN)	67x98x30	67x49x30	67x98x30	67x49x30
VF	RF SYSTEM - UNIT C	OMBINATIONS		
OUTDOOR UNIT DESIGNATION	ACC-1	ACC-2	ACC-3	ACC-4
	AC-1 (MER 114)	AC-A (DEPT OFFICE)	AC-3 (ATTIC)	AC-5 (ATTIC)
	AC-D (EXERCISE)	AC-B (CHIEF'S OFFICE)	AC-4 (ATTIC)	AC-6 (ATTIC)
	AC-D (EXERCISE)	AC-D (COPY/SUPPLY)	AC-D (AIR ROOM)	
	AC-D (EXERCISE)	AC-A (CLASSROOM)	AC-C (STAIR 2)	
INDOOR UNITS SERVED	AC-A (DISPATCH)	AC-A (CLASSROOM)	AC-C (HALL 224)	
	AC-A (IT/SERVER)	AC-A (DISTRICT OFFICE)		
	AC-C (DAY ROOM)	AC-2 (ATTIC)		
	AC-C (DAY ROOM)			
	AC-C (LOBBY)			

. OUTDOOR CONDENSERS SERVE MULTIPLE INDOOR UNITS. REFER TO SCHEDULE FOR INDOOR/OUTDOOR UNIT CONFIGURATIONS. REFER TO RISERS AND MANUFACTURER'S INSTALLATION REQUIREMENTS FOR PIPING

- 2. PROVIDE THE FOLLOWING OPTIONS FOR EACH UNIT:
- 0° LOW AMBIENT CONTROLS.
- •7-DAY PROGRAMMABLE WIRED SYSTEM CONTROLLER WITH ALARM OUTPUT.
- 2. FIELD SUPPLIED WEATHERPROOF LOCAL DISCONNECT SWITCH AT EACH OUTDOOR UNIT SHALL BE FURNISHED BY THE MECHANICAL CONTRACTOR & INSTALLED BY THE ELECTRICAL CONTRACTOR.
- 3. THE AUTOMATIC TEMPERATURE CONTROLS CONTRACTOR SHALL PROVIDE CONTROL WIRING BETWEEN THE
- OUTDOOR UNIT AND INDOOR UNIT. 4. ACC-4 IS ADD-ALT #1 WORK ONLY.

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MEP Engineer: OLA Consulting Engineers

Date Issue

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05.07.20 PROGRESS

03.27.20 DESIGN DEVELOPMENT

05.08.20 CD PROGRESS SET 05.28.20 CD PROGRESS SET 06.30.20 CD REVIEW SET

09.15.20 ICC SUBMISSION 01.15.21 ISSUED FOR BID

09.01.20 CONSTRUCTION PROGRESS

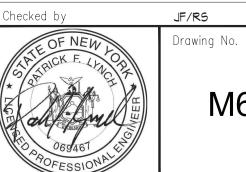
50 Broadway, Hawthorne, NY 10532 8 West 38th St. Suite 501, New York, NY Tel: 914-747-2800

Project Title Bedford Headquarters 550 Old Post Road

Project No. NSPC0070.00 03-27-20 Scale AS NOTED Drawing by

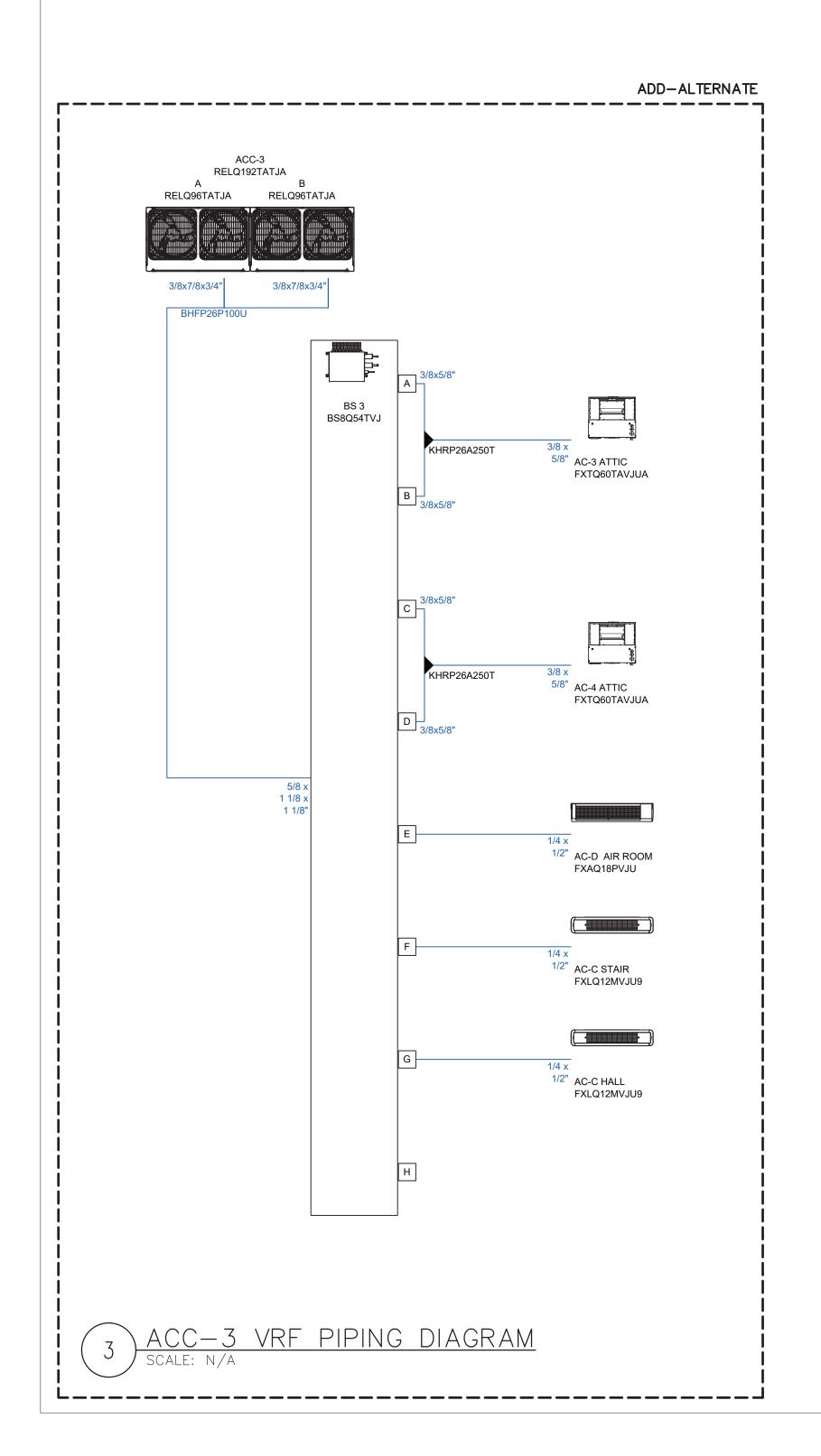
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MECHANICAL SCHEDULES

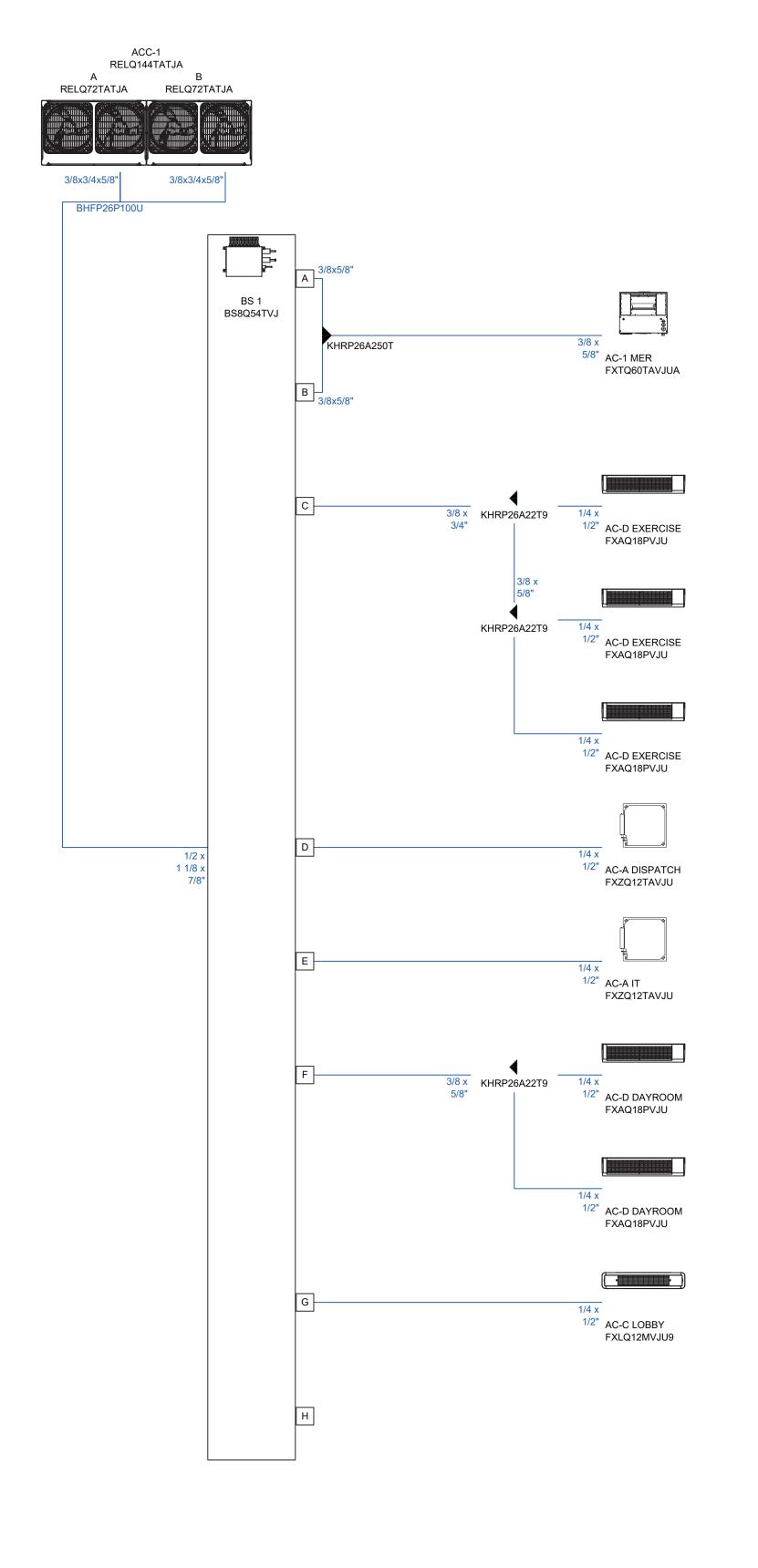


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M6.2



RELQ120TATJA 1/4 x 1/2" AC-A DEPT OFFICE FXZQ12TAVJU BS 2 BS6Q54TVJ 1/4 x
1/2" AC-B CHIEFS OFFICE
FXZQ18TAVJU 1/4 x 1/2" AC-D COPY SUPPLY FXAQ18PVJU 3/8 × KHRP26A22T9 5/8" 1/4 x 1/2" AC-A CLASSROOM FXZQ12TAVJU 1/2 x 1 1/8 x 3/4" 1/4 x 1/2" AC-A CLASSROOM FXZQ12TAVJU 1/4 x 1/2" AC-A DISTRICT OFFICE FXZQ12TAVJU 3/8 x 5/8" AC-2 ATTIC FXTQ54TAVJUA



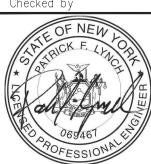
Sullivan Architecture, P.C. 31 Mamaroneck Avenue White Plains, New York 10601 914-761-6006 (F) 914-761-4919 Bedford Village Fire District 34 Village Green Bedford, NY 10506 MEP Engineer: OLA Consulting Engineers 50 Broadway, Hawthorne, NY 10532 8 West 38th St. Suite 501, New York, NY Tel: 914-747-2800 Date Issue 03.10.20 MEETING 03.27.20 DESIGN DEVELOPMENT 05.07.20 PROGRESS 05.08.20 CD PROGRESS SET 05.28.20 CD PROGRESS SET 06.30.20 CD REVIEW SET 09.01.20 CONSTRUCTION PROGRESS 09.15.20 ICC SUBMISSION 01.15.21 ISSUED FOR BID Project Title Bedford

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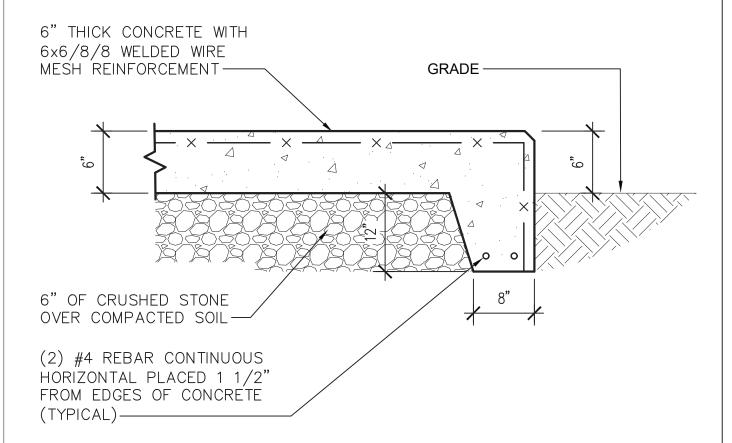
MECHANICAL RISERS

Project No. NSPC0070.00 03-27-20 AS NOTED Drawing by



M6.3

JF/RS



CONCRETE EQUIPMENT

SUPPORT PAD DETAIL

PLAN VIEW

LOW BEAM OR JOIST.

DECK.

DUCT.

CEILING.

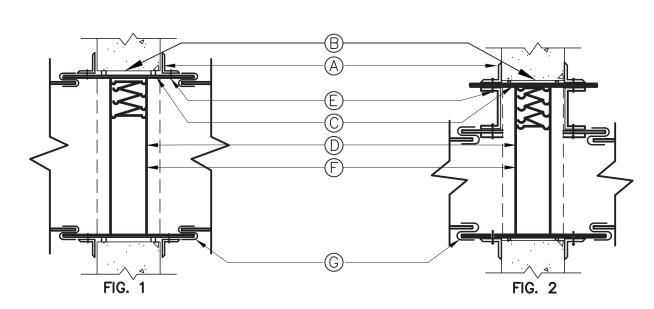
NOTES:

1.) WHERE INDICATED ON THE PLANS, OR REQUIRED DUE TO FIELD CONDITIONS, THE CONTRACTOR SHALL ROUTE DUCTWORK UNDER LOW

- BEAMS OR JOISTS IN THE MANNER INDICATED ABOVE.

 2.) REDUCE DUCT HEIGHT AT THE CROSSING IN ORDER TO FIT UNDER THE BEAM OR JOIST.
- 3.) INCREASE DUCT WIDTH AT THE CROSSING IN ORDER TO MAINTAIN THE SAME CROSS SECTIONAL AREA.
- 4.) USE SMACNA APPROVED TRANSITIONS.

6 DUCT UNDER LOW BEAM DETAIL
SCALE: NONE



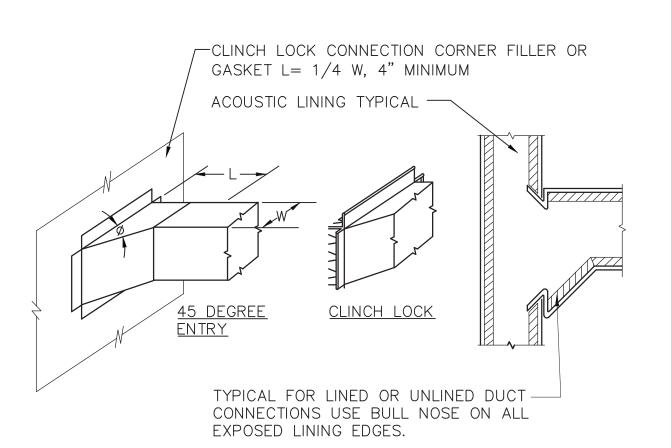
NOTES:

FIG. 2-2.

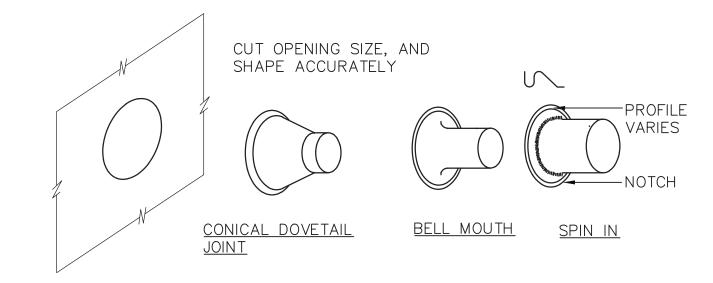
- A.) RETAINING ANGLES SHALL BE A MINIMUM 1-1/2"x1-1/2"x16 GAUGE AND MUST OVERLAP THE STRUCTURAL OPENING BY A MINIMUM OF 1".
- B.) CLEARENCE BETWEEN SLEEVE AND OPENING SHALL BE 1/8" PER LINEAR FOOT, AS PER SMACNA FIG. 2-1.
- C.) STEEL SLEEVE SHALL BE AS PER SMACNA TABLE 2-2.
- D.) U.L. APPROVED FIRE DAMPER.
 E.) SECURE RETAINING ANGLES TO SLEEVE ONLY AT 8" CENTERS AS PER SMACNA FIG. 2-1.
- F.) SECURE DAMPER TO SLEEVE AT 8" CENTERS AS PER SMACNA FIG. 2-1.
 G.) CONNECT DUCT TO SLEEVE WITH BREAK-AWAY CONNECTION AS PER SMACNA
- 1.) FIRE DAMPERS TO BE CONSTRUCTED AND INSTALLED ACCORDING TO NFPA
- 90A, UL LABELS AND THE LATEST ISSUE OF S.M.A.C.N.A. CHAPTER 2.

 2.) CURTAIN TYPE FIRE DAMPERS SHOWN, MULTI—BLADE PIVOTED FIRE DAMPERS MEETING THE ABOVE STANDARD WILL BE ACCEPTABLE.
- 3.) PROVIDE ACCESS DOORS. INSTALL (1) AD FOR EACH FIRE DAMPER AS PER SMACNA FIG. 6-1.
- 4.) FOR DUCT 12" OR LESS IN DEPTH, FIRE DAMPER SHALL BE OUT OF THE AIR STREAM. REFER TO FIGURE 2.

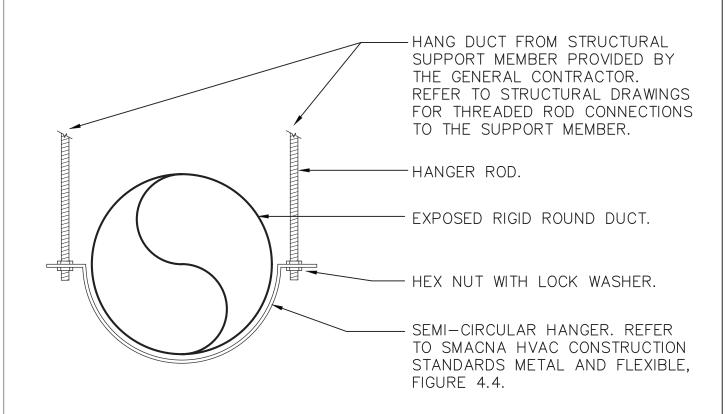




CLOSE ALL OPENINGS AT CORNERS WITH FILLER PIECE OR GASKET.



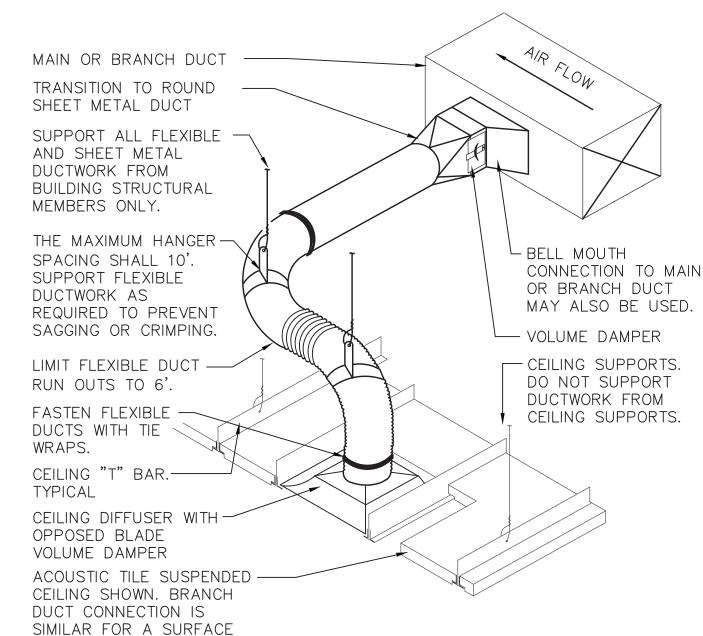
2 DUCT BRANCH CONNECTION DETAIL
SCALE: NONE



HANGER ROD SCHEDULE				
DUCT SIZE	HANGER DIA	MAXIMUM SPACING		
UP TO 2 SQ. FT.	16 GAUGE - 3"	8'-0"		
2 SQ FT TO 4 SQ FT	11 GAUGE - ½"	8'-0"		
4 SQ FT TO 10 SQ FT	11 GAUGE - ½"	6'-0"		
OVER 10 SQ FT.	11 GAUGE - ½"	4'-0"		

HANGER DETAIL FOR EXPOSED

ROUND DUCTWORK



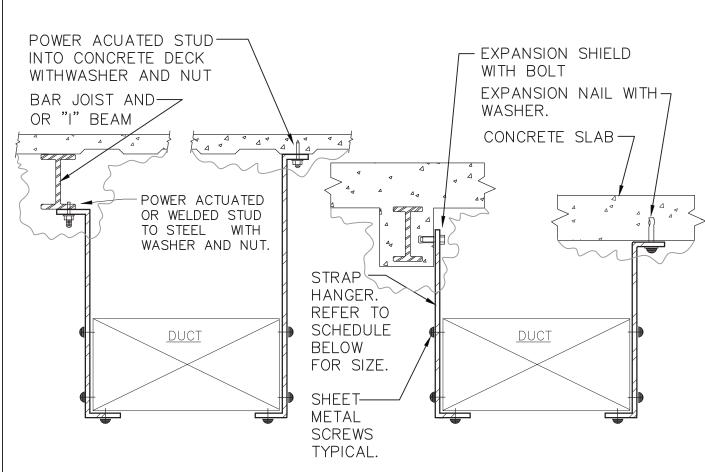
NOTES:

1.) THIS BRANCH DUCT ARRANGEMENT IS SIMILAR FOR PLENUM SLOT DIFFUSERS.

MOUNTED AIR OUTLETS.

5 FLEXIBLE DUCT CONNECTION DETAIL

5 SCALE: NONE



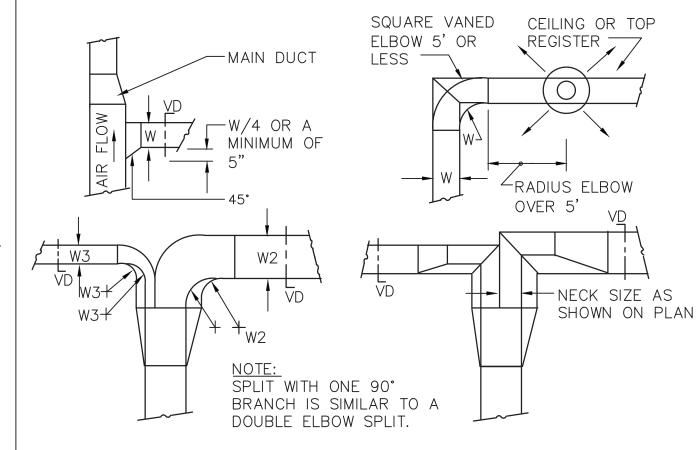
NOTES:

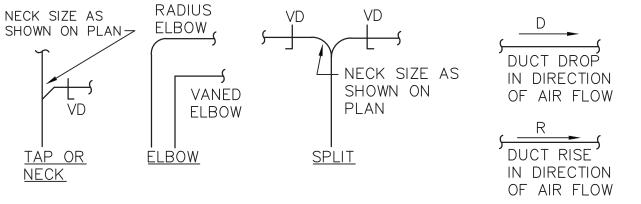
1.) FOR DUCTS OVER 49" WIDE, THE STRAP HANGER SHALL BE TURNED UNDER THE BOTTOM OF THE DUCT.

- 2.) WHERE EXISTING BUILDING STRUCTURAL COMPONENTS HAVE FIREPROOF MATERIAL, ANY AREA THAT IS DISTURBED OR DAMAGED AS A RESULT OF HANGER INSTALLATION SHALL BE PATCHED WITH UL AND FM APPROVED FIREPROOFING TO MATCH EXISTING.
- 3.) HANGER INSTALLATION IN PRECAST CONCRETE PLANKS SHALL INCLUDE ANCHORS AND FIREPROOFING METHOD APPROVED BY THE PLANK MANUFACTURER.

HANGER S	TRAP SCH	EDULE
DUCT SIZE	HANGER SIZE	MAXIMUM SPACING
UP TO 2 SQ.FT.	1" X 1/16"	8'-0"
2 SQ.FT. TO 4 SQ.FT.	1" X 1/8"	8'-0"
4 SQ.FT. TO 10 SQ.FT.	1" X 1/8"	6'-0"
OVER 10 SQ.FT.	1" X 1/8"	4'-0"

3 DUCT HANGER DETAIL
SCALE: NONE





NOTES:

- 1.) SINGLE LINE REPRESENTATIONS REFER TO DOUBLE LINE DETAILS.

 2.) USE RADIUS OR SQUARE VANED BENDS FOR BOTH ELBOWS AND SPLITS AS DETERMINED BY SPACE LIMITATIONS, AND THE DISTANCE FROM AIR OUTLETS.
- 3.) ALL SQUARE ELBOWS SHALL HAVE FACTORY TURNING VANES, AND MAINTAIN A CONSTANT WIDTH.
- 4.) WHERE DUCTS SPLIT, THE SOLID LINE REPRESENTATION IS PREFERRED, UNLESS PRECLUDED BY SPACE, OR OTHERWISE
- 5.) USE ELBOW SPLIT FOR BRANCH CONNECTIONS ONLY WHERE NECK SIZE IS GIVEN.

1 DUCT BRANCH TAKE-OFF DETAIL
SCALE: NONE

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Project Title

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MECHANICAL DETAILS

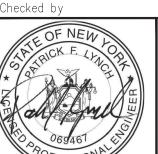
1 OF 3

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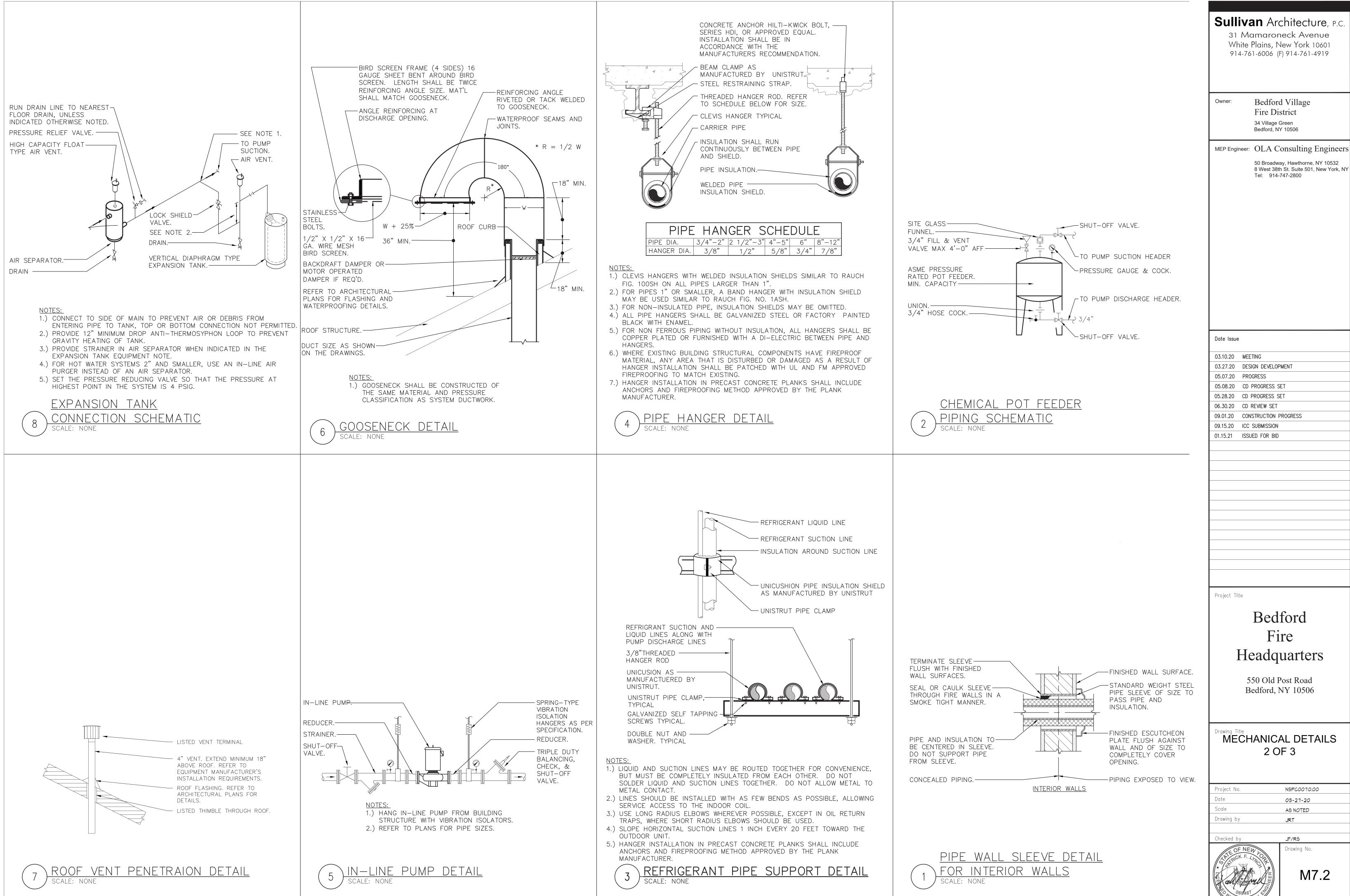
Scale AS NOTED

Drawing by JRT

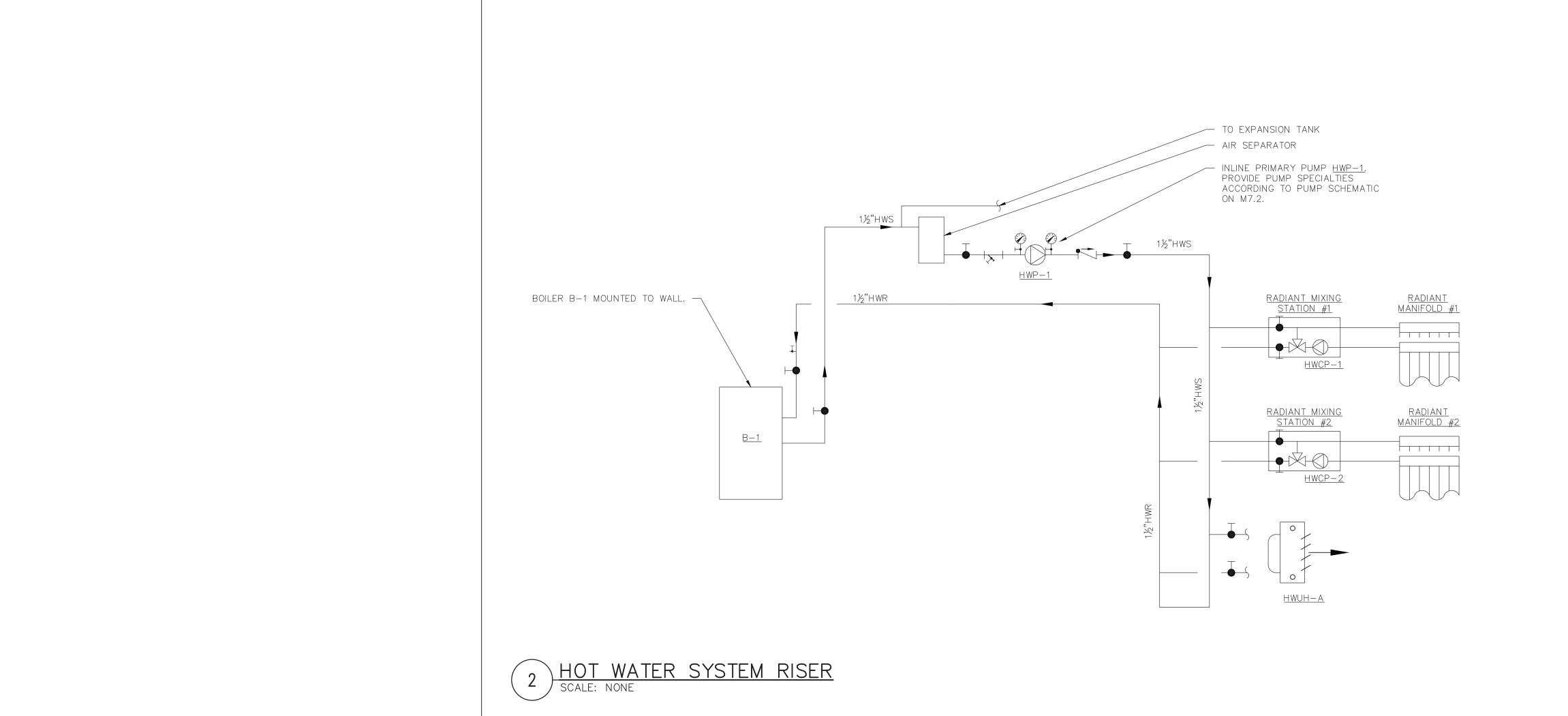


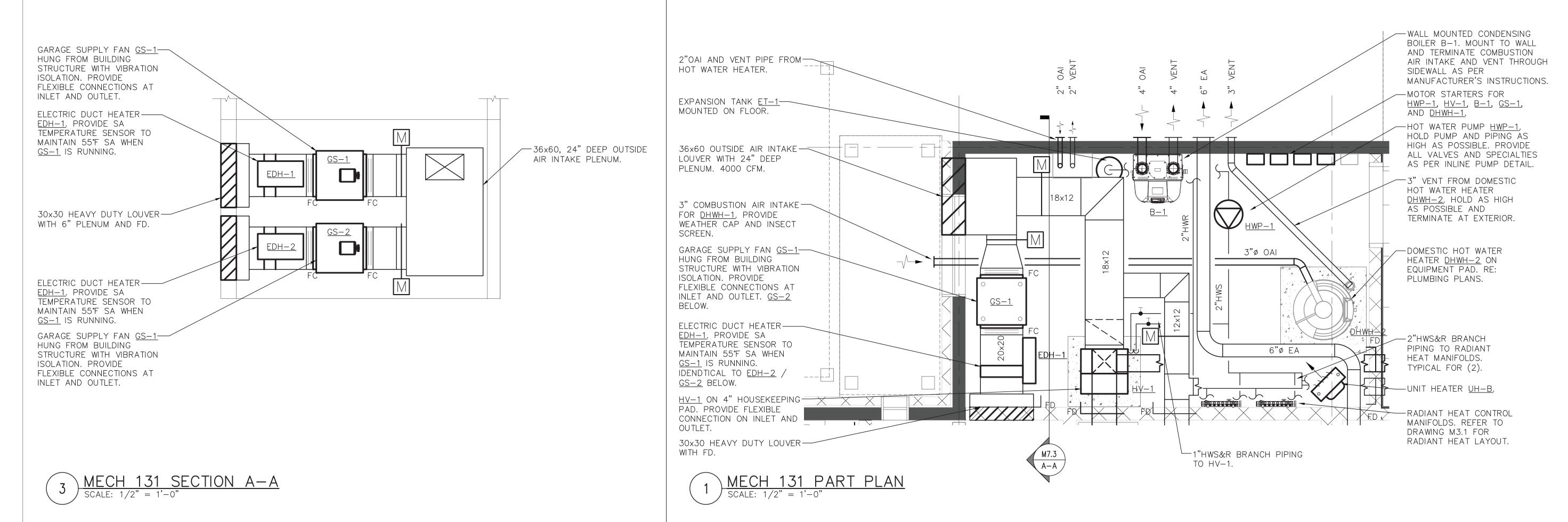
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M7.1



(NKGD0068.01)





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Date

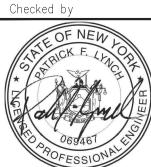
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Scale

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M7.3

JF/RS

SYMBOL	ABBREVIATION	DESCRIPTION	SYMBOL	ABBREVIATION	DESCRIPTION	SYMBOL ABBREVIATION DESCRIPTION
	_	CONDUIT AND WIRING	4	_	GENERATOR RECEPTACLE	KW KILO-WATT
	_	CONDUIT & WIRING TO BE REMOVED UON		GND	GROUND AS PER LOCAL CODE	LTG LIGHTING
— UG-E-	_	BURIED POWER CONDUIT	= ///		GROUND BAR	MAX MAXIMUM
— UG-C—		BURIED COMMUNICATION CONDUIT	Π	_	GROUND ROD	MCB MAIN CIRCUIT BREAKER
			OR ⊙ %F			
—— OH———	_	OVERHEAD CONDUCTORS	W [-]		TRANSFER SWITCH	MIN MINIMUM
	_	HANDHOLE	or T	XFMR	TRANSFORMER	MLO MAIN LUG ONLY
	_	HOMERUN TO PANEL, ARROWS INDICATE # 1P		СТ	CURRENT TRANSFORMER	MTS MANUAL TRANSFER SWITCH
1	_	MULTI-POLE HOMERUN	<u> </u>	_	UTILITY POLE	NIC NOT IN CONTRACT
	_	ELECTRICAL EQUIPMENT AS INDICATED	₹¶ WM	WM	WATER MAIN	NL NIGHT LIGHT
	_	ELECTRICAL EQUIPMENT TO BE REMOVED UON	В	_	BOILER BREAK GLASS STATION	NTS NOT TO SCALE
M	_	ELECTRIC METER		NC	NORMALLY CLOSED CONTACTS	OH OVERHEAD
J, J		JUNCTION BOX		NO	NORMALLY OPEN CONTACTS	P POLE
	_	FUSED DISCONNECT SWITCH	A	CV	CONTROL VALVE	PBO PROVIDED BY OTHERS
	_	UNFUSED DISCONNECT SWITCH	LD	_	LEAK DETECTOR	PNL PANEL
	_	COMBINATION MOTOR STARTER/FUSED DISC.	M	MD	MOTORIZED DAMPER	PVC POLY VINYL CHLORIDE
\boxtimes	_	MOTOR STARTER		SD OR CFSD	SMOKE DAMPER	RECP RECEPTACLE
(25)	_	MOTOR, NUMBER INDICATES HORSEPOWER (HP)	UH UH	UH	UNIT HEATER	REL. REMOVE AND RELOCATE
	_	BATTERY PACK EMERGENCY LIGHT FIXTURE		VAV	VARIABLE AIR VOLUME BOX	RGS RIGID GALVANIZED STEEL
<u> </u>	_	EXIT LIGHT, FACES—SHADED, CHEVRON—ARROW		A	AMPERE(S)	RTU ROOF TOP UNIT
S _x	_	LOW VOLTAGE SINGLE POLE SWITCH		AC	AIR CONDITIONER	SCH SCHEDULE
^		(x - INDICATES FIXTURE BEING CONTROLLED)		ACC	AIR CONDITIONER CONDENSER	SPD SURGE PROTECTION DEVICE
S_x^3	_	LOW VOLTAGE THREE WAY SWITCH		AFF	ABOVE FINISHED FLOOR	SW SWITCH(ES)
Οx		(x - INDICATES FIXTURE BEING CONTROLLED)		AF	AMPERAGE OF FUSE	TELCO TELEPHONE COMPANY
SxDIM	_	LOW VOLTAGE DIMMER SWITCH		AGL	ABOVE GRADE LEVEL	TYP TYPICAL
⊃x		(x - INDICATES FIXTURE BEING CONTROLLED)		AHU	AIR HANDLING UNIT	UG UNDERGROUND
S_{M}		MOTOR RATED TOGGLE SWITCH		AL	ALUMINIUM	UON UNLESS OTHERWISE NOTED
				ARC		USB UNIVERSAL SERIAL BUS
	_	WALL MTD OCCUPANCY/MOTION SENSOR			ARC FAULT INTERRUPTER	
<u>©</u>	_	CEILING MOUNTED OCCUPANCY SENSOR		AS	AMPERAGE OF SWITCH	UV UNIT VENTILATOR
⊕ _{U, TV}	_	DUPLEX RECEPTACLE. (U — INDICATES WITH USB, TV — INDICATES FOR TV)		ATS	AUTOMATIC TRANSFER SWITCH	VIF VERIFY IN FIELD
LI				AWG	AMERICAN WIRE GAUGE	V VOLT(S)
<u></u>	_	DOUBLE DUPLEX RECEPTACLE		BCW	BARE COPPER WIRE	VSD VARIABLE SPEED DRIVE
\ominus	_	SPECIAL RECEPTACLE		BLDG	BUILDING	WG WIRE GUARD
$\overline{\nabla}$	_	TELEPHONE OUTLET		BMS	BUILDING MANAGEMENT SYSTEM	WH WATER HEATER
V ×	_	DATA OUTLET (x — INDICATES # OF JACKS, 1 JACK UON)		С	CONDUIT	WP WEATHERPROOF
				CD	CANDELA	NOTES: 1. ALL SYMBOLS AND ABBREVIATIONS MAY NOT BE APPLICABLE FOR THIS PROJE
$oldsymbol{ abla}$	_	COMBINATION TELEPHONE/DATA OUTLET		CKT	CIRCUIT	2. SEE LIGHTING FIXTURE SCHEDULE FOR LIGHT FIXTURE SYMBOLS.
1	_	COMBINATION DATA & TV OUTLET		CLG	CEILING	TYPICAL BRANCH CIRCUIT WIRING LEGEND
\bigcirc	_	TV OUTLET		COL	COLUMN	2-#12 & 1-#12 GND (1-1P-20A OR 1-1P-15A CB)
+ PA	_	WALL MOUNTED PUBLIC ADDRESS SPEAKER		CU	COPPER	———→ 3-#12 & 1-#12 GND (3P-20A OR 3P-15A CB)
+ PH	_	PUBLIC ADDRESS TELEPHONE		CUH	CABINET UNIT HEATER	——→ 2-#12 & 1-#12 GND (2P-20A OR 2P-15A CB)
SP	_	CEILING MOUNTED PUBLIC ADDRESS SPEAKER		DEM.	DEMOLISH AND REMOVE	LIGHT FIXTURE TYPE SWITCH CONTROL
<u></u>		DEMOTE DESCRIP STATION		DISC	DISCONNECT	-RECEPTACLE 15 SWITCH CONTROL LIGHT FIXTURE
&	_	REMOTE RESCUE STATION		DIM	DIMMER	CIRCUIT #
TC	_	TIME CLOCK		DWG	DRAWING	NOTES: 1. EACH 120V AND 277V CIRCUIT SHALL HAVE A DEDICATED NEUTRAL
CR	_	CARD READER		ELEV	ELEVATOR	CONDUCTOR. SHARED NEUTRAL HOMERUNS ARE NOT PERMITTED.
DA	_	DOOR ALARM		EMT	ELECTRICAL METALLIC TUBING	2. CONDUCTORS SHALL BE INCREASED FOR VOLTAGE DROP AND DERATING AS PER APPLICABLE ELECTRICAL CODE. FOR CIRCUITS THAT ARE BETWEEN 100
ES		ELECTRIC DOOR STRIKE			EMERGENCY	AND 150' IN LENGTH, PHASE AND NEUTRAL CONDUCTORS SHALL BE #10 AW
KP	_	KEY PAD		EX.	EXISTING TO REMAIN	FOR CIRCUITS THAT ARE BETWEEN 150' AND 225' IN LENGTH, PHASE AND NEUTRAL CONDUCTORS SHALL BE #8 AWG. FOR LENGTHS GREATER THAN
	_	SECURITY CAMERA		FLR	FLOOR	225' IN LENGTH, VERIFY CONDUCTOR SIZES WITH ENGINEER.
PTZ		PTZ — PAN, TILT, ZOOM		FBO	FURNISHED BY OTHERS	
0	_	PUSHBUTTON		FC	FAN COIL UNIT	
HD	-	ELECTRIC HAND DRYER		GEN	GENERATOR	
EPO EPO	EPO	EMERGENCY POWER OFF SWITCH		GFI	GROUND FAULT INTERRUPTER	
RASP	RASP	RESCUE ASSIST. SYSTEM MASTER STATION		HP	HORSEPOWER	
<u></u>	СВ	CIRCUIT BREAKER		HVAC	HEATING VENTILATION AIR CONDITIONING	
60	_	ENCLOSED CIRCUIT BREAKER		IG	ISOLATED GROUND	
/ 200AS 150AF	_	FUSED SWITCH		IMC	INTERMEDIATE METAL CONDUIT	
(G)	GEN	GENERATOR		KVA	KILO-VOLT-AMPERE	

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Date Issue 03.10.20 MEETING

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Project Title

Bedford Fire Headquarters

550 Old Post Road Bedford, NY 10506

Drawing Title
ELECTRICAL SYMBOLS,
ABBREVIATIONS AND NOTES

Project No.	NSPC0070.00
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E0.1

GENERAL NOTES

- 1. ALL WORK SHOWN IS NEW UNLESS OTHERWISE NOTED (UON) EXISTING TO REMAIN (EX.).
- 2. THE DRAWINGS ARE TO BE CONSIDERED SCHEMATIC ONLY AND DO NOT NECESSARILY SHOW THE EXACT LOCATIONS AND DETAILS OF THE WORK TO BE INSTALLED.
- 3. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND PAYING ALL FEES ASSOCIATED WITH THIS WORK INCLUDING FILING WITH THE UTILITY COMPANY (AS REQUIRED), AND WITH LOCAL AUTHORITY HAVING JURISDICTION.
- 4. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE TO HIRE A THIRD PARTY ELECTRICAL INSPECTION AGENCY TO PROVIDE UL INSPECTIONS AND SUBMIT A CERTIFICATE OF INSPECTION PRIOR TO FINAL REQUEST FOR PAYMENT.
- 5. ALL WORK INVOLVING THE ELECTRIC SERVICE SHALL BE COORDINATED AND APPROVED BY THE UTILITY COMPANY, NYSEG.
- 6. ALL CONDUCTORS SHALL BE COPPER UON "ON DRAWINGS".
- 7. ELECTRONIC FILES OF THE MECHANICAL, ELECTRICAL, PLUMBING AND FIRE PROTECTION DRAWINGS ARE AVAILABLE TO THE CONTRACTOR. THE ENGINEER MAY GRANT THE CONTRACTOR A LIMITED LICENSE TO MAKE A DERIVATIVE WORK OF THE DATABASE FOR THE PURPOSE OF SHOP DRAWINGS, SUBMITTALS AND AS-BUILT DRAWINGS. UPON REQUEST, THE ENGINEER SHALL PROVIDE A RELEASE FORM THAT MUST BE SIGNED AND RETURNED BY THE CONTRACTOR PRIOR TO RELEASE OF THE ELECTRONIC FILES.
- 8. CIRCUIT NUMBERS ARE FOR INFORMATION PURPOSES ONLY. ACTUAL CIRCUIT NUMBERS SHALL BE DETERMINED IN THE FIELD.
- 9. CORE DRILLING OR TRENCHING THROUGH AN EXISTING FLOOR SLAB, WHEN REQUIRED, SHALL BE COORDINATED WITH THE OWNER. FLOOR SLABS SHALL BE RADAR SCANNED PRIOR TO CORE DRILLING OR TRENCHING. ALL WORK, INCLUDING CORE DRILLING, RADAR SCAN, INSTALLATION OF FIRE STOPPING, & CONDUIT/CABLE INSTALLATION SHALL BE PERFORMED DURING NON-BUSINESS HOURS AND INCLUDED IN BASE BID. USE EXTREME CAUTION DURING ANY CUTTING OPERATION TO AVOID DAMAGE TO EXISTING EQUIPMENT/SYSTEMS. ANY ITEMS DAMAGED AS A RESULT OF CORE DRILLING SHALL BE REPAIRED AT NO COST TO THE CLIENT. ALL CORES SHALL BE FIRE SEALED.
- 10. FOR EACH WALL MOUNTED COMMUNICATIONS OUTLET, SPEAKER, SECURITY CAMERA AND CARD READER INDICATED, PROVIDE A 1900 JUNCTION BOX WITH AN EXTENDER COLLAR AND 1 INCH CONDUIT WITH DRAGLINE 6 INCHES ABOVE ACCESSIBLE CEILING FOR INSTALLATION OF CABLE. PROVIDE CONDUIT FOR CABLING IN ALL EXPOSED AREAS.
- 11. COMMUNICATION WIRING SHALL BE COLOR CODED AS FOLLOWS:
- 11.1. DATA: BLUE 11.2. FIRE—ALARM: RED
- 11.3. SECURITY CAMERAS: YELLOW
- 11.4. DOOR ACCESS: GREEN
- 12. WHERE GFI RECEPTACLES ARE CIRCUITED WITH GENERAL CONVENIENCE RECEPTACLES, THE GFI RECEPTACLE SHALL BE THE LAST DEVICE ON THE CIRCUIT.
- 13. INSTALL CONDUIT EXPANSION FITTINGS AT ALL LOCATIONS WHERE CONDUITS CROSS BUILDING OR STRUCTURE EXPANSION JOINTS.
- 14. CEILING MOUNTED RECEPTACLES SHALL BE MOUNTED FLUSH TO CEILING.
- 15. UNLESS OTHERWISE NOTED, DISCONNECT SWITCHES, STARTERS, HOAS AND MOTOR RATED TOGGLE SWITCHES FOR MECHANICAL PUMPS, CABINET AND UNIT HEATERS, RETURN FANS, ROOF FANS, VAV BOXES, COMPRESSORS, FAN COIL UNITS, AIR HANDLERS AND CONDENSERS SHALL BE FURNISHED BY THE MECHANICAL CONTRACTOR AND INSTALLED BY THE ELECTRICAL CONTRACTOR. COORDINATE ALL WORK WITH THE MECHANICAL CONTRACTOR.
- 16. DISCONNECT SWITCHES FOR MOTORIZED DAMPERS, CFSD/SD AND VAV BOXES SUPPLIED BY MECHANICAL CONTRACTOR AND INSTALLED AND WIRED BY ELECTRICAL CONTRACTOR. SWITCHES NOT SHOWN ON PLANS.
- 17. INCLUDE IN BASE BID (4) 1P-20A CIRCUITS ON EACH LEVEL (150' LENGTH EACH) FOR HVAC SYSTEM CONTROL PANELS. EXACT LOCATION OF CONTROL PANELS SHALL BE COORDINATED WITH DIVISION 23 IN THE FIELD. CIRCUITS SHALL ORIGINATE FROM THE FOLLOWING PANELBOARDS:

FIRST FLOOR — RP1B SECOND FLOOR — RP2B

- 18. ALL SMOKE, CO & COMBINATION SMOKE/CO ALARMS TO BE 120V, MULTI STATION HEADS WITH NON-REMOVABLE, NON-REPLACEABLE, 10 YEAR MINIMUM BATTERY BACKUP, U.O.N. PROVIDE WIRING AS REQUIRED BETWEEN HEADS. ALL HEADS WITHIN DWELLING UNIT SHALL BE CONNECTED TOGETHER.
- 19. ALL 120V, 15 AND 20 AMP CIRCUITS FEEDING LOADS IN KITCHENS, FAMILY ROOMS, DINING ROOMS, LIVING ROOMS, PARLORS, LIBRARIES, DENS, BEDROOMS, SUNROOMS, RECREATION ROOMS, CLOSETS, HALLWAYS, LAUNDRY AREAS, OR SIMILAR ROOMS OR AREAS SHALL BE PROTECTED BY, COMBINATION TYPE ARC—FAULT CIRCUIT INTERRUPTER CIRCUIT BREAKERS.
- 20. EACH DUPLEX AND QUAD RECEPTACLE SHALL BE LABELED WITH THE CIRCUIT NUMBER WHICH IT SERVES. ALPHANUMERICS TO BE 1/8" HIGH AND BLACK ON CLEAR BACKGROUND. LABELS SHALL BE SELF ADHESIVE. IDENTIFY ASSOCIATED PANEL AND CIRCUIT NUMBER.
- 21. THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL CUTTING, PATCHING, PAINTING, AND FINAL RESTORATION REQUIRED TO FACILITATE THE DEMOLITION AND INSTALLATION OF ALL ELECTRICAL EQUIPMENT, INCLUDING BUT NOT LIMITED TO PANELBOARDS, CONDUITS, WIRING, DEVICES, FIXTURES, ETC. INCLUDING ABOVE CEILINGS. CONTRACTOR TO REMOVE AND REPLACE CEILINGS, AND OPEN AND PATCH WALLS, AS REQUIRED TO EXECUTE THE ELECTRICAL WORK.
- 22. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE TO HIRE AND PAY ALL FEES FOR THE UL FIELD EVALUATION SERVICE TO RE—INSPECT AND RE—CERTIFY THE SWITCHBOARD IN RELATION TO MODIFICATIONS REQUIRED WHEN TAPPING THE BUS. CONTRACTOR SHALL SCHEDULE WITH UL PRIOR TO START OF WORK. UL SHALL BE PRESENT WHILE TAPPING OF THE SWITCHBOARD IS EXECUTED. (TEL: 1—877—ULHELPS)
- 23. ALL ELECTRICAL EQUIPMENT INCLUDING SWITCHBOARD, PANELBOARDS, DISCONNECT SWITCHES ETC. SHALL BE MANUFACTURED BY SQAURE D.
- 24. PROVIDE SURGE PROTECTORS FOR ALL MAIN SWITCHBOARDS/PANELS AND ALL PANELS CONNECTED TO THE EMERGENCY GENERATOR SYSTEM.

DEFINITION OF TERMS

- 1. WHEREVER IN THE CONTRACT DOCUMENTS THE WORD "CLIENT" IS USED, IT MUST BE UNDERSTOOD THAT "BEDFORD VILLAGE FIRE DISTRICT" IS INTENDED.
- 2. WHEREVER IN THE CONTRACT DOCUMENTS THE WORD "ARCHITECT" IS USED, IT MUST BE UNDERSTOOD THAT "SULLIVAN ARCHITECTURE, P.C." IS INTENDED.
- 3. WHEREVER IN THE CONTRACT DOCUMENTS THE WORD "ENGINEER" IS USED, IT MUST BE UNDERSTOOD THAT "OLA CONSULTING ENGINEERS" IS INTENDED.
- 4. WHEREVER IN THE CONTRACT DOCUMENTS THE WORDS "ELECTRICAL UTILITY" OR "POWER COMPANY" ARE USED, IT MUST BE UNDERSTOOD THAT "NYSEG" IS INTENDED.
- 5. WHEREVER IN THE CONTRACT DOCUMENTS THE WORDS "TELEPHONE UTILITY" OR "TELCO" ARE USED, IT MUST BE UNDERSTOOD THAT "VERIZON FIOS" IS INTENDED.
- 6. WHEREVER IN THE CONTRACT DOCUMENTS THE WORDS "FIRE ALARM SYSTEM" OR "FIRE ALARM VENDOR" ARE USED, IT MUST BE UNDERSTOOD THAT "OPEN SYSTEM" IS INTENDED.
- 7. "WORK" MUST BE DEEMED TO CONSIST OF ALL LABOR AND OPERATIONS, TRANSPORTATION, HOISTING, MATERIALS, TOOLS, EQUIPMENT, SERVICES, INSPECTIONS, INVESTIGATIONS, COORDINATION AND SUPERVISION REQUIRED AND / OR REASONABLY NECESSARY TO PRODUCE THE CONSTRUCTION REQUIRED BY THE CONTRACT DOCUMENTS.
- 8. "FURNISH" MEANS THE DESIGN, FABRICATION, PURCHASE AND DELIVERY TO THE JOB SITE.
- 9. "INSTALL OR INSTALLATION" MEANS THE ACT OF PHYSICALLY PLACING, APPLYING, SETTING, ERECTING, ANCHORING, SECURING, ETC., CONSTRUCTION MATERIALS, EQUIPMENT, FURNISHINGS, APPLIANCES, AND SIMILAR ITEMS SPECIFIED AND FURNISHED AT THE JOB SITE. INSTALLATION OF SPECIFIED ITEMS MUST BE COMPLETE IN ALL RESPECTS.
- 10. "PROVIDE" MEANS TO FURNISH AND INSTALL CONSTRUCTION MATERIAL, EQUIPMENT, ETC. AS DEFINED ABOVE.
- 11. THE FOLLOWING ARE DEFINITIONS OF SHOP DRAWING STAMP ACTIONS:
 - A. "NO EXCEPTIONS TAKEN" MEANS THAT THE SHOP DRAWING IS CORRECT AS TO PERFORMANCE, CAPACITY, ETC. AND SUBSTANTIAL CONFORMANCE TO THE CONTRACT DRAWINGS AND SPECIFICATIONS. FABRICATION AND/OR PURCHASE MAY COMMENCE.
 - B. "MAKE CORRECTIONS NOTED" MEANS THAT THE SHOP DRAWING IS CORRECT AS TO PERFORMANCE, CAPACITY, ETC. AND SUBSTANTIAL CONFORMANCE TO THE CONTRACT DRAWINGS AND/OR SPECIFICATIONS, SUBJECT TO AND IN COMPLIANCE WITH THE ANNOTATIONS AND/OR CORRECTIONS INDICATED ON THE SHOP DRAWING. FABRICATION AND/OR PURCHASE MAY COMMENCE.
- C. "AMEND AND RESUBMIT" MEANS THAT THE COMMENTS AND/OR CORRECTION ARE SO EXTENSIVE AND IMPORTANT THAT THE REVIEWER WANTS TO SEE HOW THE COMMENTS AND/OR CORRECTIONS ARE RESOLVED PRIOR TO RELEASE FOR FABRICATION AND/OR PURCHASE. FABRICATIONS AND/OR PURCHASE MAY NOT COMMENCE.
- D. "REJECTED" MEANS THAT THE SHOP DRAWING DOES NOT COMPLY OR CONFORM TO THE CONTRACT DRAWINGS AND/OR SPECIFICATIONS. FABRICATION AND/OR PURCHASE MAY <u>NOT</u> COMMENCE.

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Bedford Fire Headquarters

550 Old Post Road Bedford, NY 10506

Drawing Title

ELECTRICAL GENERAL NOTES AND DEFINITION OF TERMS

Project No.

Date

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Scale

Drawing by

JL/MRP

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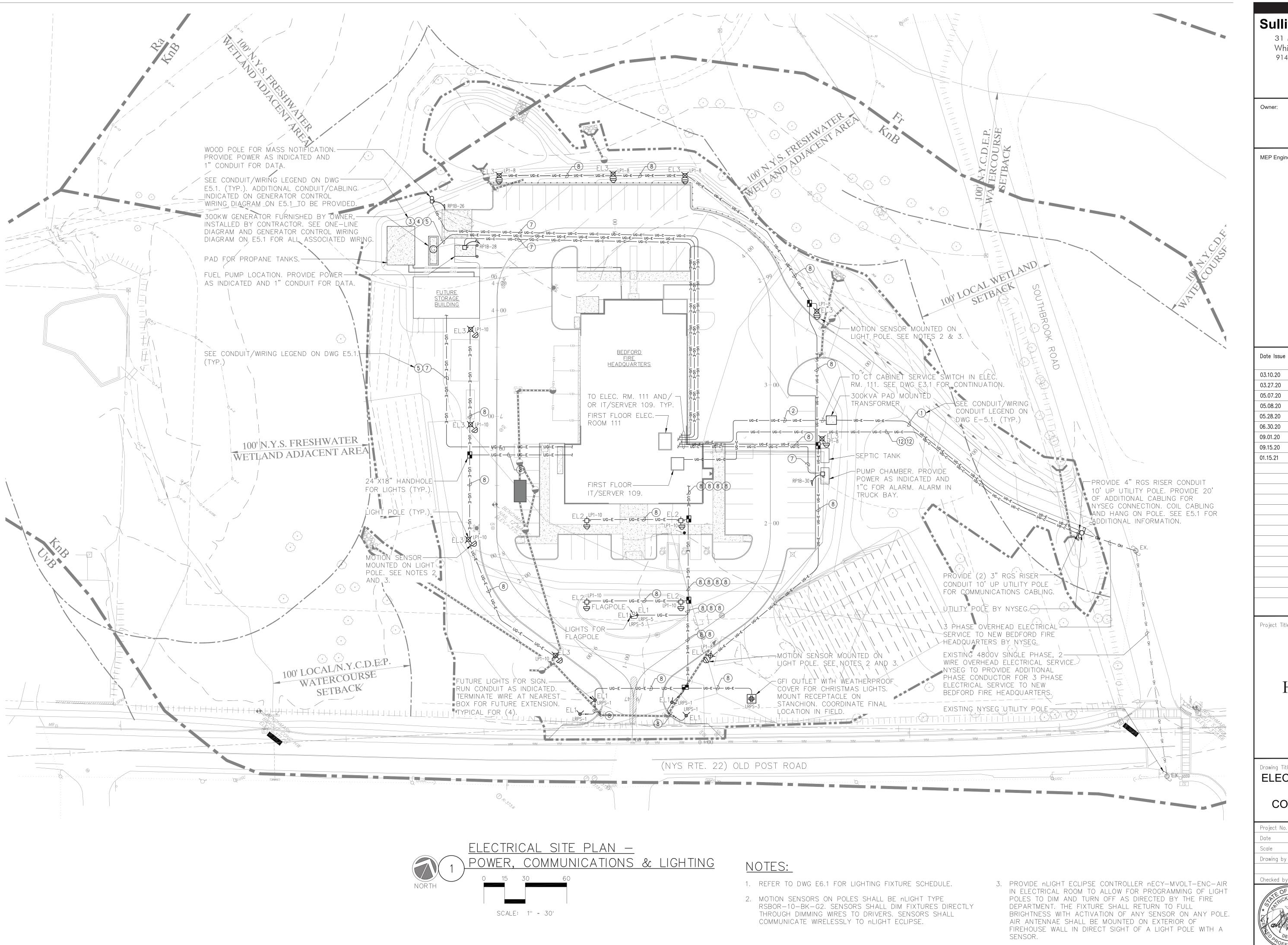
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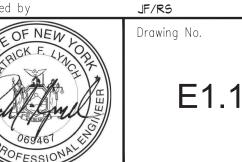
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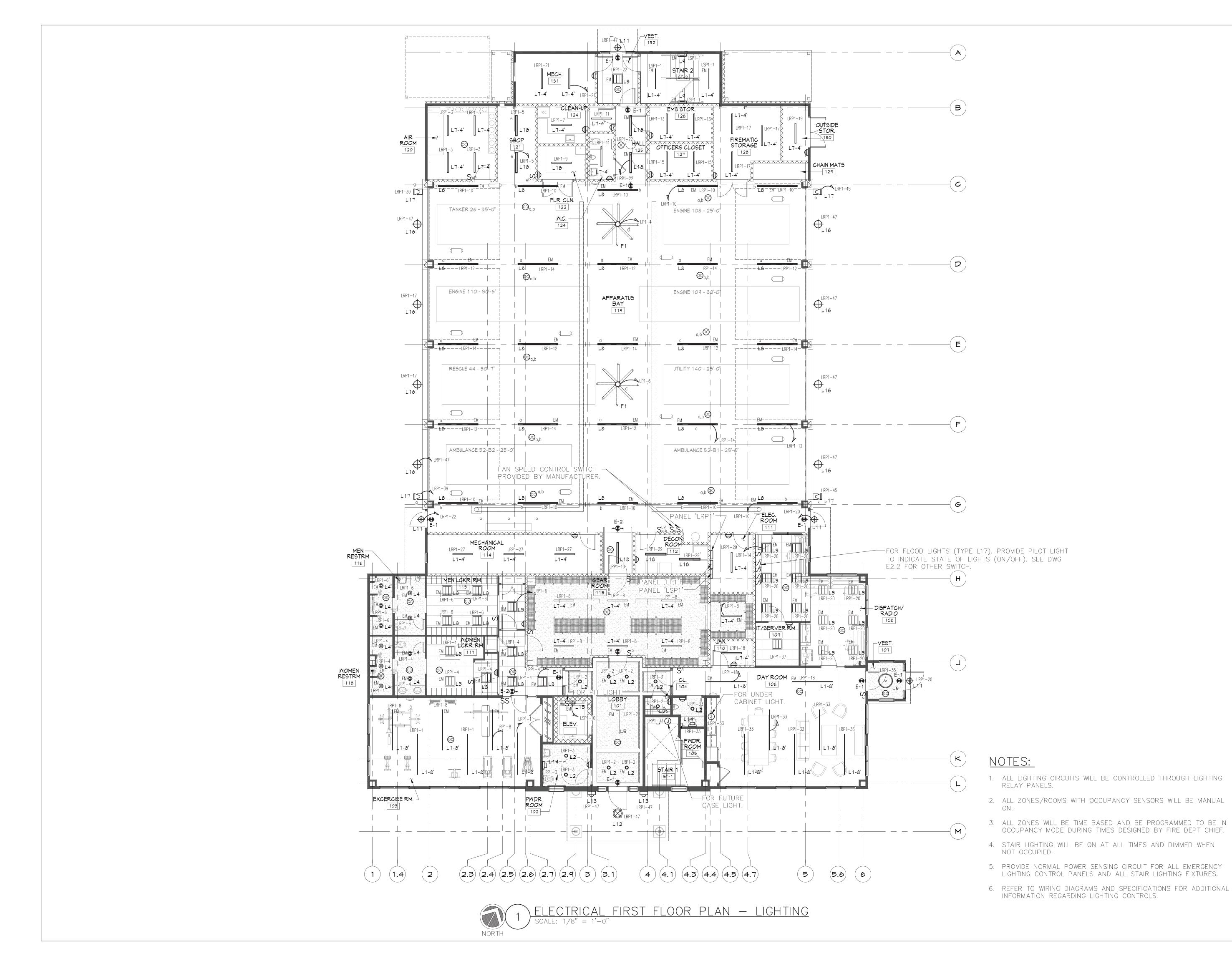
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ELECTRICAL SITE PLAN -POWER, **COMMUNICATIONS & LIGHTING**

Project No. NSPC0070.00 03-27-20 AS SHOWN JL/WRP Drawing by

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ELECTRICAL FIRST FLOOR PLAN - LIGHTING

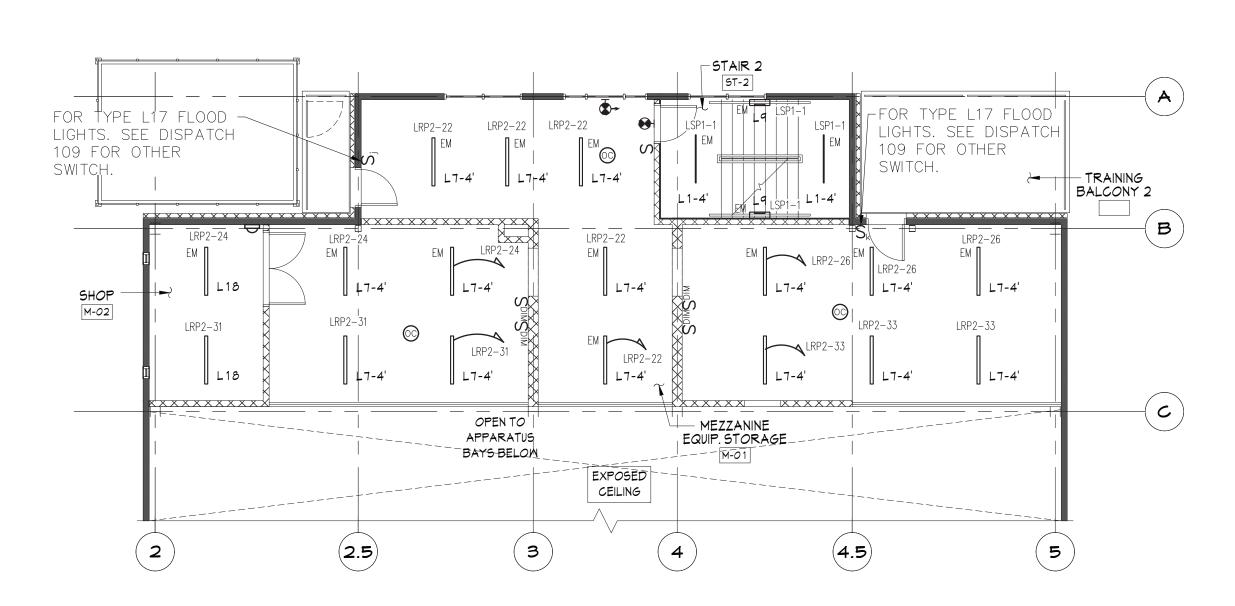
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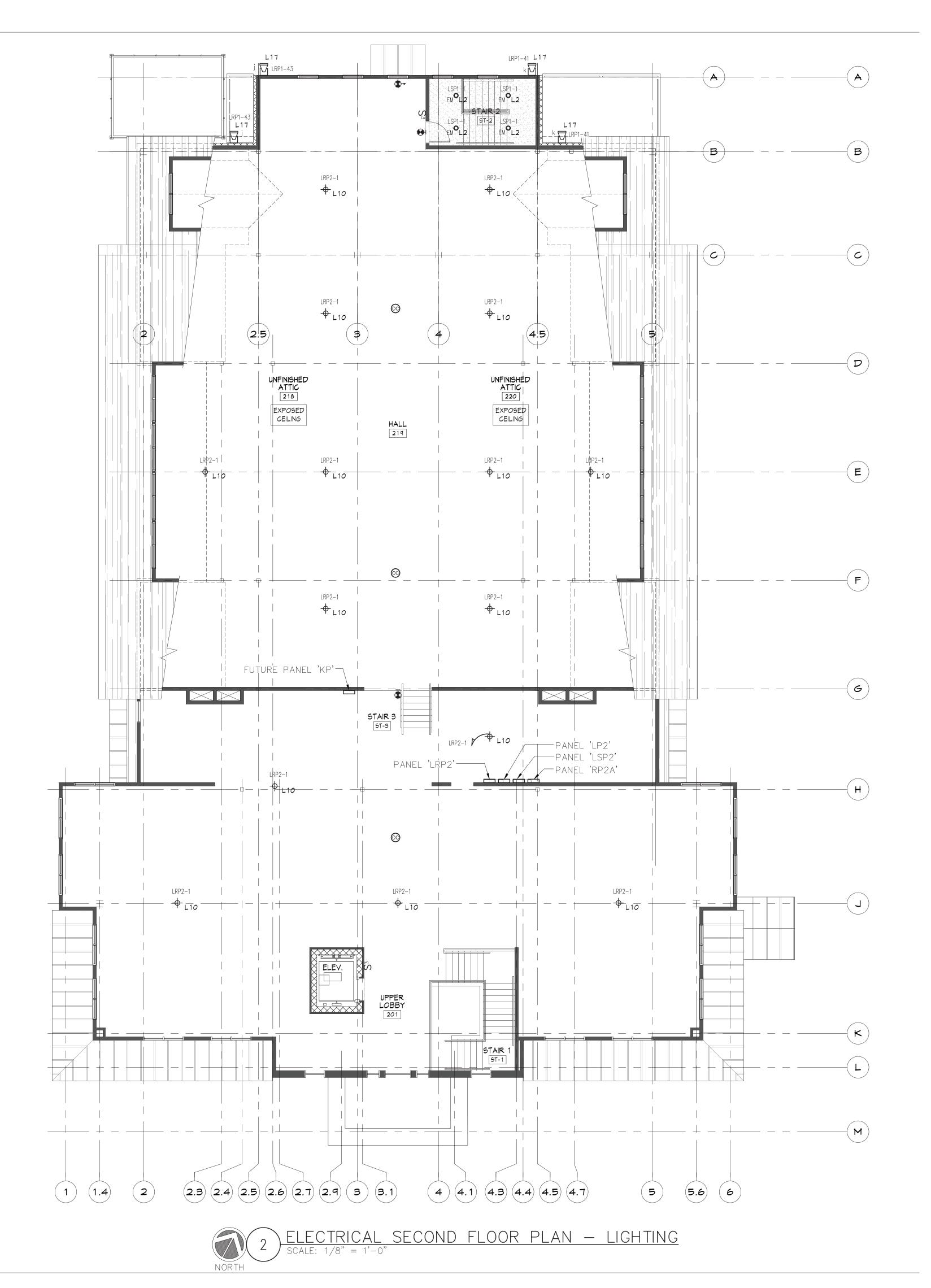
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NOTES:

- ALL ZONES WILL BE TIME BASED AND BE PROGRAMMED TO BE IN OCCUPANCY MODE DURING TIMES DESIGNATED BY FIRE DEPARTMENT CHIEF.
- 2. STAIR LIGHTING WILL BE ON AT ALL TIMES AND DIMMED WHEN NOT OCCUPIED.
- 3. PROVIDE NORMAL POWER SENSING CIRCUIT TO ALL EMERGENCY LIGHTING CONTROL PANELS AND ALL STAIR LIGHTING FIXTURES.
- 4. REFER TO WIRING DIAGRAMS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION REGARDING LIGHTING CONTROLS.



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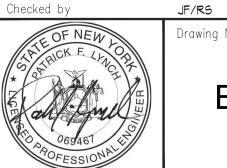
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Drawing Title ELECTRICAL SECOND

FLOOR PLAN - LIGHTING

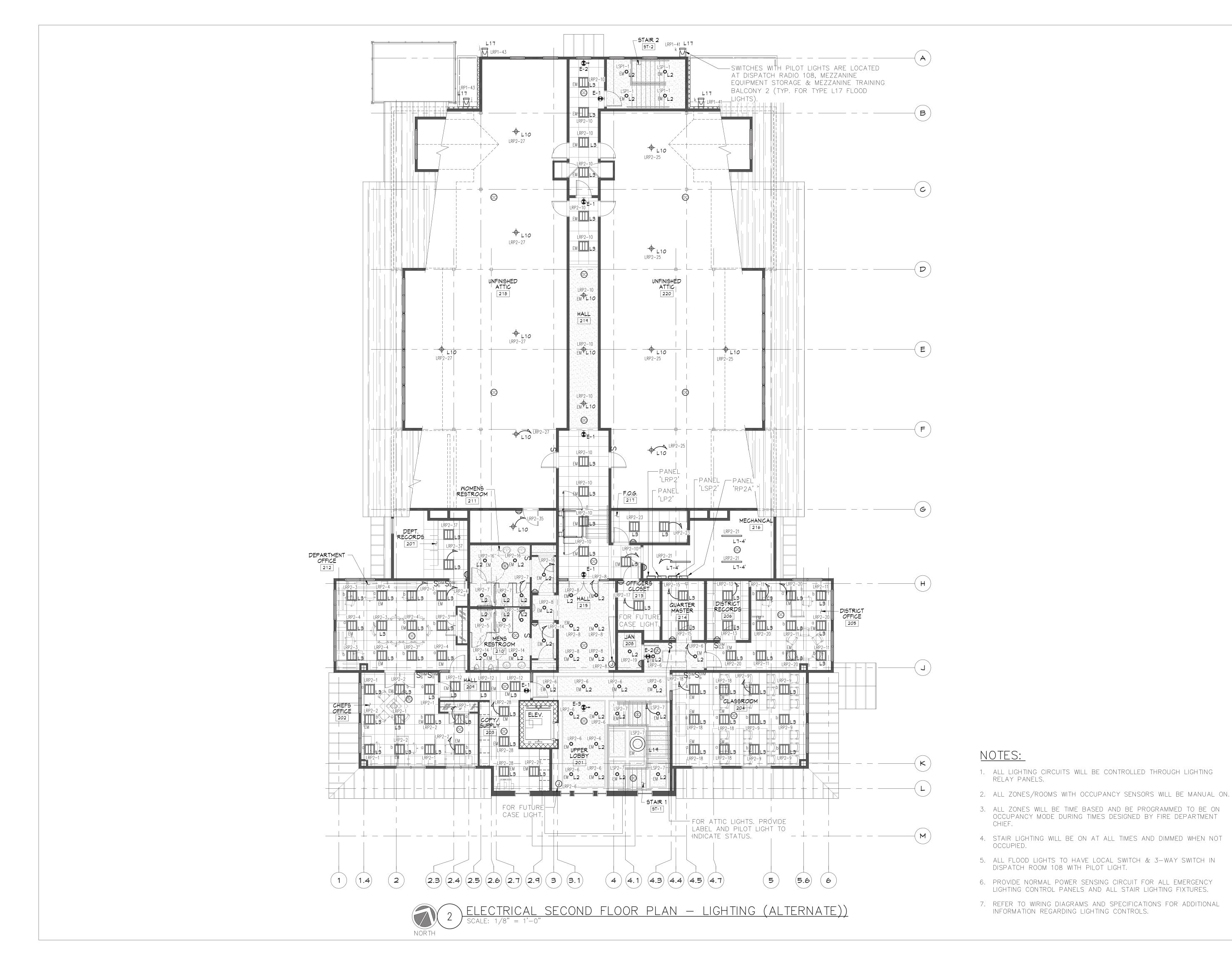
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Drawing Title

ELCTRICAL SECOND FLOOR PLAN - LIGHTING (ALTERNATE)

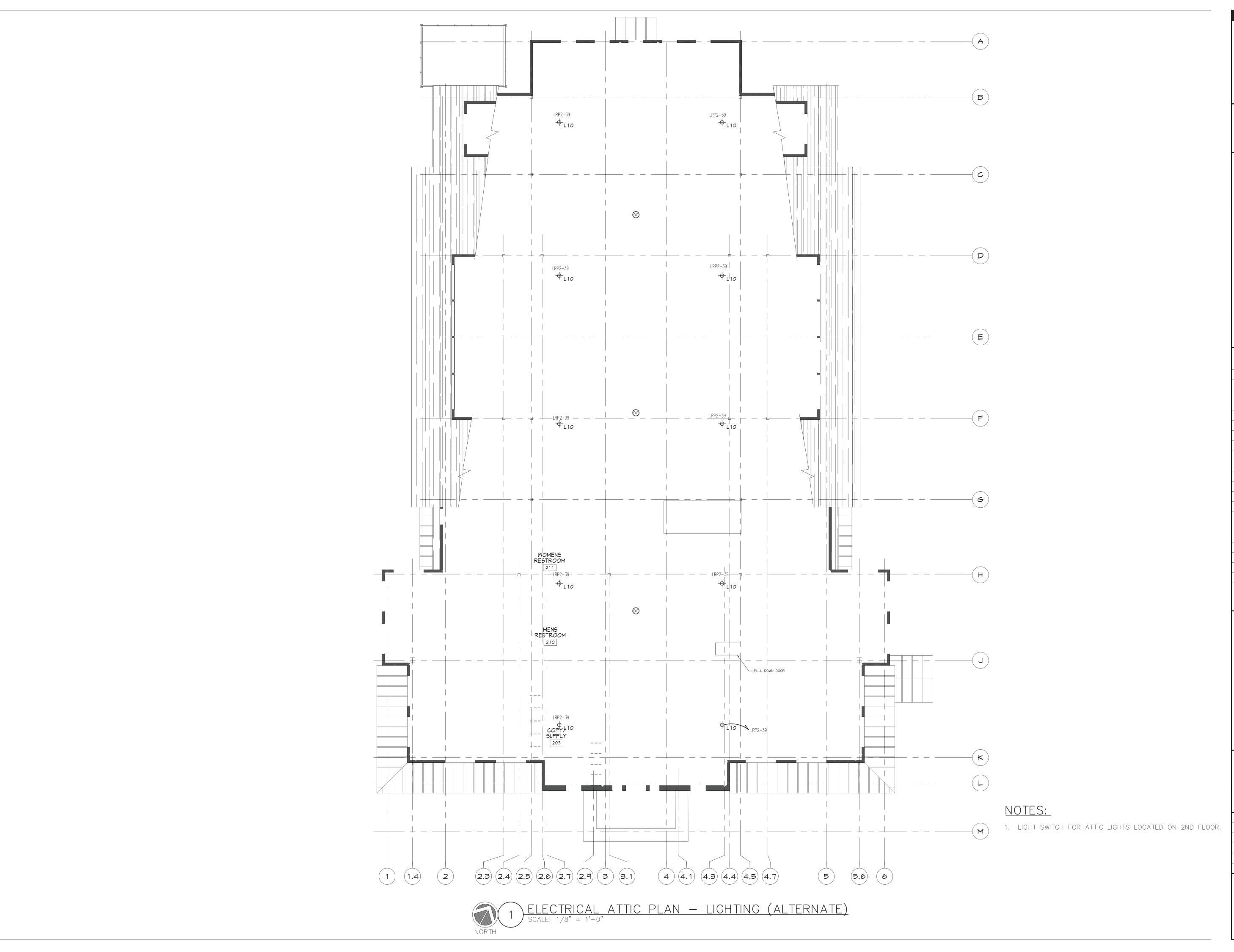
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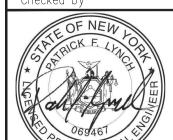
Project Title

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Drawing Title ELECTRICAL ATTIC PLAN -LIGHTING (ALTERNATE)

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E2.3A

WATER PUMP P-1 FOR RADIANT SYSTEM--MOTOR STARTERS FOR HWP-1, HV-1, B-1, GS-1&2, & DHWH-2. -RAPIANT HEAT MANIFOLD HEAT CONTROL 1 & 2. -PANEL 'PM2' BOILER B-1-SECURITY CAMERA. TYPICAL. 132 GS-1&2 AND EDH-1&2.-FIREMATIC SEE ONE-LINE. STORAGE ROOM В EMS STOR. FOR CONDENSING UNIT ACC-4-126 FOR CONDENSING UNIT ACC-3 MOD 1-FOR CONDENSING UNIT ACC-3 MOD 2-- ELECTRIC STRIKE. RP1A−33 OFFICERS RP1A-33 ACC-3 (MODULE ACC-3 (MODULE 2 RP1A-33 -PUSH BUTTON AND DISCONNECT CHAIN MATS ➡ RP1A-40 SWITCH FOR GARAGE DOOR. (GD INDICATES GARAGE DOOR) . FOR AIR COMPRESSOR. -(AIR COMPRESSOR BY OTHERS). SEE ONE-LINE DIAGRAM. FOR ZAMBONI-<u>AIRVAC</u> PM1-66 TANKER 26 - 35'-0" | MACHINE CHARGING (FUTURE) (FUTURE) ENGINE 108 - 25'-0" 3-#6 & 1-#10 GND IN 1'C. (POWER & AIR) RP1A-38 → RP1A-41 → RP1A-41 APPARATUS RP1B-36 **₽** RP1B−33 (POWER & AIR) 119 -'HR' INDICATES POWERED SPRING EXPOSED ENGINE 110 - 30'-6" ENGINE 109 - 32'-0" REWIND HOSE REEL. RP1B-8,10,12 CEILING MODEL # NSCR 715-19-20J. ___3-#6 & 1-#10 GND IN 1'C. 12/3 CORD, 50' LONG. TYP. FOR (8). ___3-#6 & 1-#10 GND IN 1'0 FOR HOSE REEL AT END OF HOSE REEL TRACK (10' FROM DOOR). TYP. (POWER & AIR) --RP1B-38--<u>AIRVAC</u> (POWER & AIR) (<u>FUTURE)</u> PMI-60 (FUTURE) PM1-68 UTILITY 140 - 25'-0" RESCUE 44 - 30-7" RP1B-14,16,18 **▶** RP1B−13,15,17 __3-#6 & 1-#10 GND IN 1'C HOSE REEL (POWER & AIR) - PUSH BUTTON SWITCH FOR (POWER & AIR) GARAGE DOOR. TYP. OF 8. AMBULANCE 52-B1 - 25'-0" AMBULANCE 52-B2 - 25'-0" RP1B-20,22,24 ±3-#6 & 1-#10 GND IN 1'C. 3-#6 & 1-#10 GND IN 1'C. SEE PART PLAN 2 FOR TO DP1. SEE ONE-LINE DIAGRAM ON DWG E5.1. —— FOR TRUCK CAR WASH-HANDHOLE FOR FUTURE SHED BARN. (COMMUNICATION) HANDHOLE FOR FUTURE SHED-BARN (POWER) SEE PART PLAN 2. PM1-1,3,5 (MOD 1) PM1-2,4,6 (MOD 2) -4-#4 & 1-#8 GND IN 1-1/4"C. FOR CONDENSING UNIT ACC-1-ACC-1 (MODULE 1) - GENERATOR ANNUNCIATOR. SEE E5.1. ACC-1 (MODULE 2) -VRF DISPLAY CONTROLLER. FOR DOOR CONTROLS PM1-8,10,12 4-#2 & 1-#8 GND IN 1-1/4"C. -CARD READER. TYPICAL. (κ) FOR FILL BOTTLE FOUNTAIN--ABOUT COUNTER (TYP.) SECURITY CAMERA, TYPICAL.— MASTER STATION. SEED DETAIL ON E7.1. -FOR CALL BOX. (1.4) $\left(\, {f 2} \, ight)$ FIRST FLOOR PLAN — POWER & DATA

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ELECTRICAL FIRST FLOOR

PLAN - POWER & DATA

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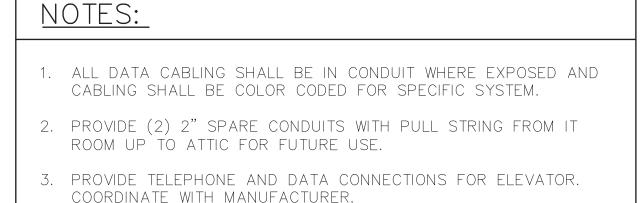
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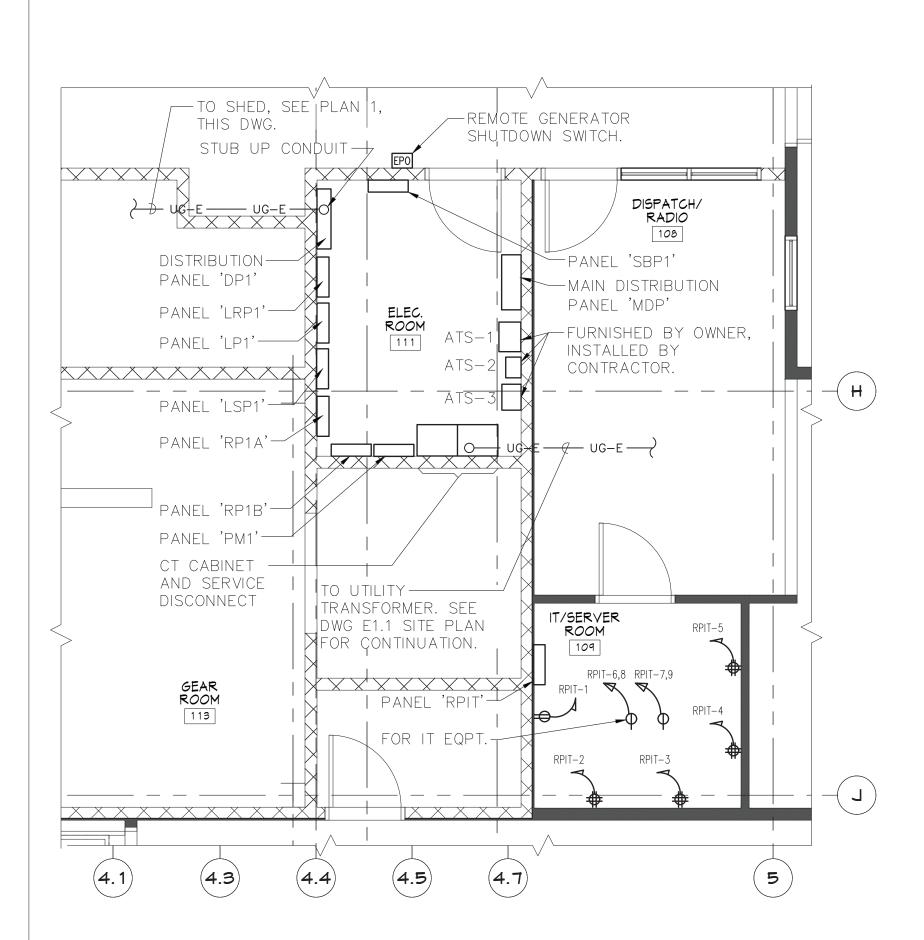
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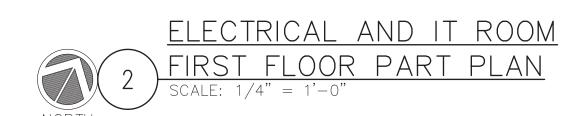
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- 4. PROVIDE JUNCTION BOX AND CONDUIT FOR RECESSED KNOXBOX AND LOW VOLTAGE WIRING AT FRONT ENTRY AS NEEDED. SEE FIRE—ALARM PLANS FOR ADDITIONAL INFORMATION. COORDINATE WITH GC. SEE ARCHITECTURAL PLANS FOR ADDITIONAL INFO.
- 5. PROVIDE POWER REQUIRED FOR AUTOMATIC PLUMBING FIXTURE POWER KITS. PROVIDE JUNCTION BOX AND/OR RECEPTACLE, CONDUIT AND WIRING FOR AUTOMATIC PLUMBING FIXTURES. CONNECT TO RECEPTACLE CIRCUIT SERVING RESTROOM/AREA. COORDINATE ALL LOCATIONS WITH PLUMBING DRAWINGS. COORDINATE FINAL INSTALLATION WITH PLUMBING CONTRACTOR.
- 6. PROVIDE WIRING, RECEPTACLE AND COVER—PLATE AT EACH LOCKER IN TURNOUT GEAR ROOM. CONNECT TO CIRCUIT AT JUNCTION BOXES NOTED. TYPICAL FOR EACH WALL MOUNTED LOCKER AND LOCKERS IN CENTER OF ROOM.







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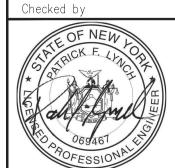
Bedford Fire Headquarters

550 Old Post Road Bedford, NY 10506

Drawing Title

ELECTRICAL SECOND FLOOR PLAN - POWER & DATA

Project No. NSPC0070.00 03-27-20 AS NOTED Drawing by JL/WRP



E3.2

JF/RS



31 Mamaroneck Avenue White Plains, New York 10601 914-761-6006 (F) 914-761-4919

Bedford Village
Fire District
34 Village Green

MEP Engineer: OLA Consulting Engineers

Bedford, NY 10506

50 Broadway, Hawthorne, NY 10532 8 West 38th St. Suite 501, New York, NY Tel: 914-747-2800

Date Issue

03.10.20 MEETING
03.27.20 DESIGN DEVELOPMENT

05.07.20 PROGRESS

05.08.20 CD PROGRESS SET

05.28.20 CD PROGRESS SET

06.30.20 CD REVIEW SET

09.01.20 CONSTRUCTION PROGRESS

09.15.20 ICC SUBMISSION

01.15.21 ISSUED FOR BID

Project Title

Bedford Fire Headquarters

550 Old Post Road Bedford, NY 10506

Drawing Title

ELECTRICAL SECOND FLR
PLAN - POWER & DATA
(ALTERNATE)

Project No. NSPC0070.00

Date 03-27-20

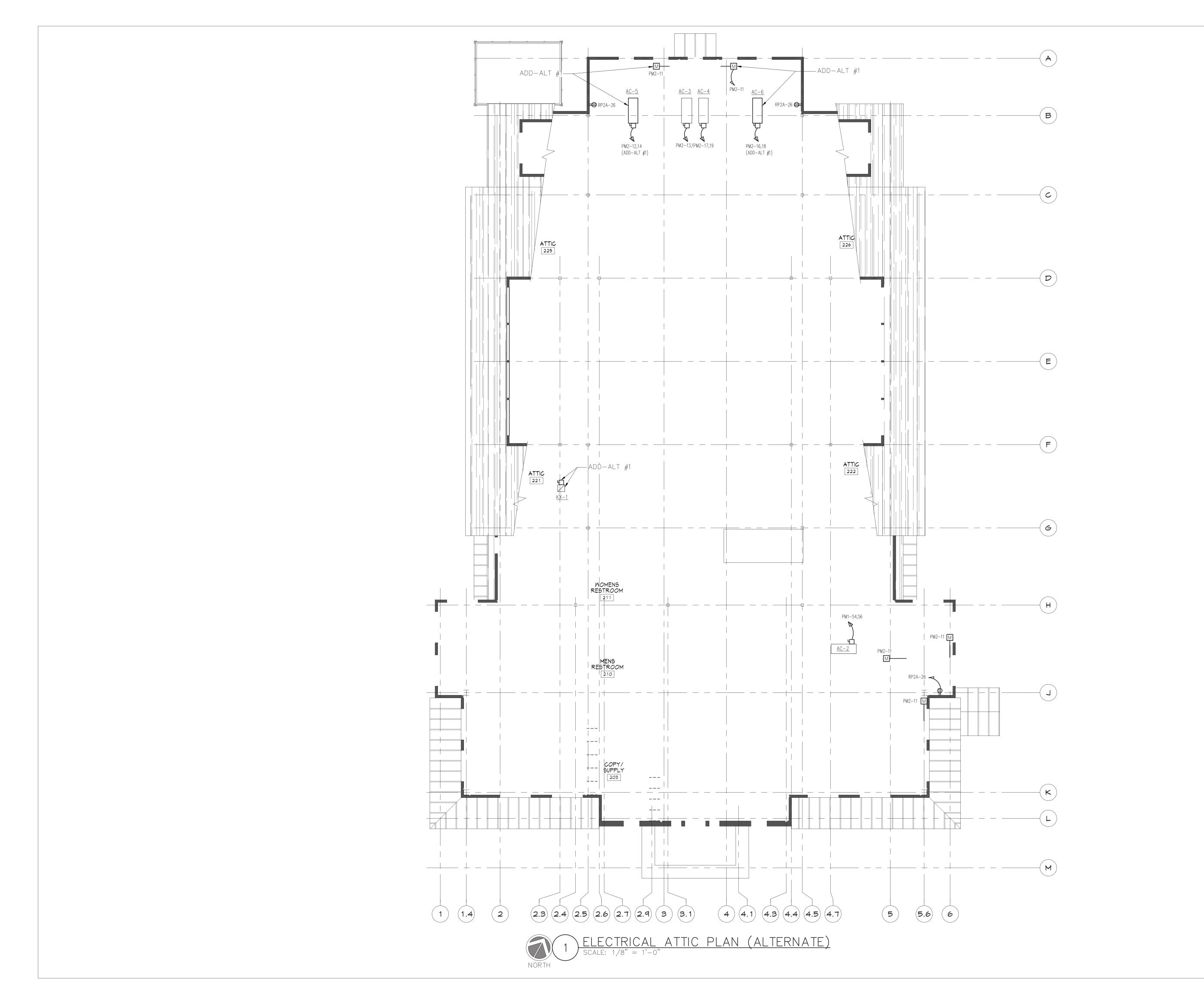
Scale AS NOTED

Drawing by JL/MRP



JF/RS
Drawing No.

E3.2A



31 Mamaroneck Avenue White Plains, New York 10601 914-761-6006 (F) 914-761-4919

Bedford Village
Fire District

34 Village Green
Bedford, NY 10506

MEP Engineer: OLA Consulting Engineers

50 Broadway, Hawthorne, NY 10532 8 West 38th St. Suite 501, New York, NY Tel: 914-747-2800

Date Issue

03.10.20 MEETING

03.27.20 DESIGN DEVELOPMENT
05.07.20 PROGRESS
05.08.20 CD PROGRESS SET
05.28.20 CD PROGRESS SET

06.30.20 CD REVIEW SET

09.01.20 CONSTRUCTION PROGRESS

09.15.20 ICC SUBMISSION
01.15.21 ISSUED FOR BID

Project Title

Bedford Fire Headquarters

550 Old Post Road Bedford, NY 10506

POWER (ALTERNATE)

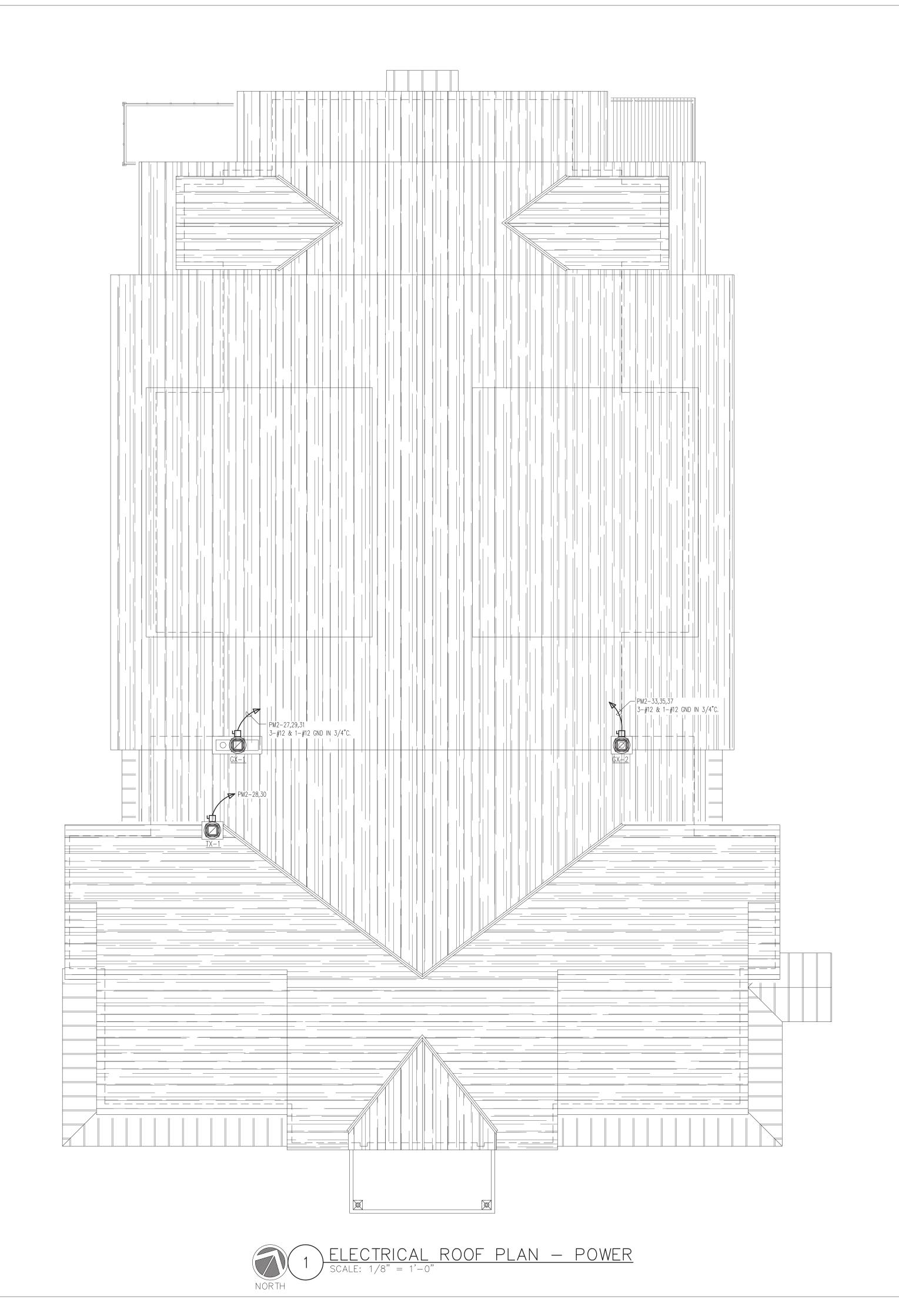
Project No.	NSPC0070.00
Date	03-27-20
Scale	AS NOTED
Drawing by	JL/WRP



JF/RS
Drawing No.

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E3.3A



31 Mamaroneck Avenue White Plains, New York 10601 914-761-6006 (F) 914-761-4919

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Date Issue

03.10.20 MEETING

05.07.20 PROGRESS 05.08.20 CD PROGRESS SET 05.28.20 CD PROGRESS SET 06.30.20 CD REVIEW SET 09.01.20 CONSTRUCTION PROGRESS 09.15.20 ICC SUBMISSION

01.15.21 ISSUED FOR BID

03.27.20 DESIGN DEVELOPMENT

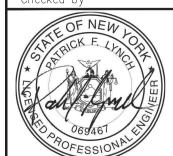
Project Title

Bedford Fire Headquarters

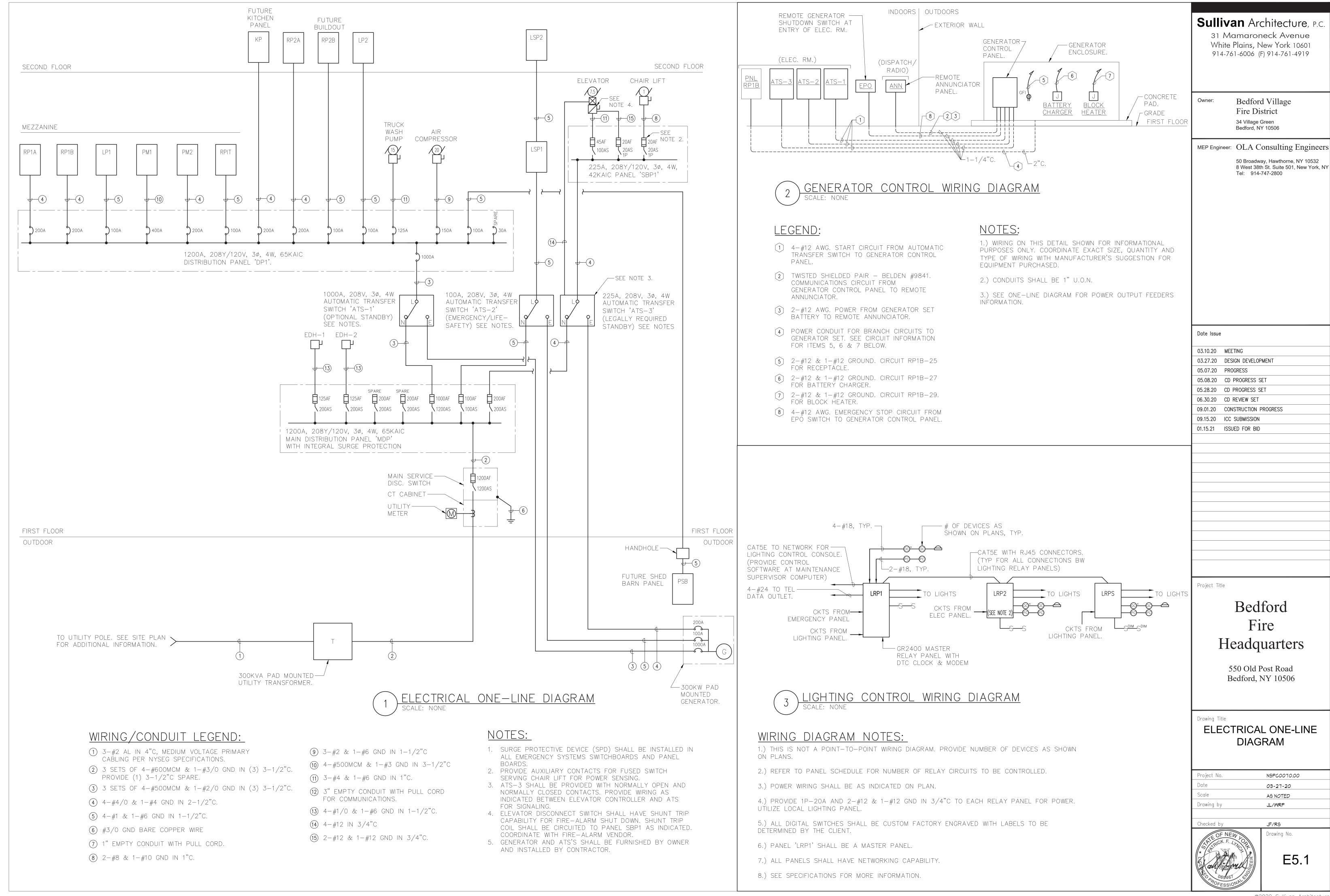
550 Old Post Road Bedford, NY 10506

Drawing Title ELECTRICAL ROOF PLAN -POWER

Project No.	NSPC0070.00
Date	03-27-20
Scale	AS NOTED
Drawing by	JL/WRP



E3.4



LIGHTING FIXTURE SCHEDULE INPUT | VOLTS | WATTS (W) FIXTURE MANUFACTURER MANUFACTURER MOUNTING CATALOG NUMBER LAMPS MOUNTING REMARKS CATALOG NUMBER LAMPS REMARKS VOLTS WATTS (W) DESIGNATION DESIGNATION 8 FT - 158 RPM 120 SURFACE ESSENCE 8FT FAN KIT 1,200 120 F1 HKYP297130-(12VLED OPTION) LED SURFACE | ALFORD PLACE OUTDOOR PENDANT. HINKLEY BIG ASS FANS LIGHTHOUSE 120 60 SURFACE | CONTRACTOR TO PROVIDE RED BULBS. (1) 60W E26 MAXIM LIGHTING LLLSA-97L-46W1500L-30K-SA-SAYLITE 120 LED 46 SURFACE | LINEAR LIGHTING CHANNEL 5866CLFTAR MEDUIM L1-8' HC601WH-MTIM40L24DC SAYLITE LLLSA-48L-23W1500L-30K-SA-120 120 12 LED 23 LINEAR LIGHTING CHANNEL VANITY LED SURFACE | VANITY LIGHTING FIXTURE. MAXIM LIGHTING L1 - 4L_____L14 52000-POLISHED CHROME HC601WH-MTIM40L24DC 120 150 VW150SL M6 SURFACE UTILITY VAPOR TIGHT LIGHTING FIXTURE. ©_{L2} LITHONIA HIGH +L15 LIGHTOLIER 120 6RN-C6L30830ME1-C6RDLWH LED 30 RECESSED CALCULATED LED 6" GEN 3 PRESSURE LIGHTING ROUND DOWNLIGHT SODIUM (HPS DAY-BRITE 2EVG30L835-2-D-UNV-DIM LED 120 25 RECESSED 2'x2' LIGHTING FIXTURE SURFACE | BARN TYPE LIGHTING FIXTURE. CHEROKEE UPLIGHT SERIES 120 16.8 BARN LIGHT G-ULC18-100-G26-U.S.A. CLR-NA-LED16.8-3000K LIGHTOLIER 120 30 FSL2850LW LED UNV 28.23 SURFACE | SINGLE HEAD LED FLOOD LIGHTING FIXTURE 6RN-C6L30830ME1-C6RSLWH LED RECESSED CALCULATED LED 6" GEN 3 EATON L17 © L4 ROUND DOWNLIGHT UNV 46 SURFACE | SEALED WET LOCATION INDUSTRIAL FIXTURE. LED 120 MODERN FORMS MFMP206783 LED 80 SURFACE | LED LINEAR PENDANT V2WAE51L840-4-UNV-MD360W DAY-BRITE L18 UNV 60 ALRP267758-(LARGE OPTION LED PENDANT | DUO LED PENDANT. LARGE OPTION FIXTURE ALORA LIGHTING SHAPER UNV 72 LED LED DECORATIVE ROUND LIGHTING FIXTURE. 122-36-S-L9/830-UNV-MW - 31.5" DIAMETER FIXTURE) DRUM: 122-36-VLM \triangleright F-1 SURE-LITES LPX SERIES LED 120 0.98 SURFACE | EXIT LIGHT. REFER TO ARCHITECTURAL COOPER DAY-BRITE 120 37 5FL455L840-PPS-UNV-DIM LED SURFACE 6"x4' INDUSTRIAL LED LIGHTING FIXTURE. LPX 6 (WALL MOUNT) DWGS FOR DIRECTION CHEVRONS. L7 **-**120 0.98 SURFACE | EXIT LIGHT. REFER TO ARCHITECTURAL SURE-LITES LPX SERIES LED COOPER DAY-BRITE LPX 6 (WALL MOUNT) DWGS FOR DIRECTION CHEVRONS. DWAE70L840-8-UNV-WHP LED UNV 130 SURFACE 7"x8' SEALED INDUSTRIAL LED LIGHTING FIXTURE' **-**120 0.98 SURE-LITES LPX SERIES LED SURFACE | EXIT LIGHT. REFER TO ARCHITECTURAL COOPER LPX 6 (CEILING) DWGS FOR DIRECTION CHEVRONS. JS-L-L-2-L35-1D-UNV-SU-UNV 18 WALL MOUNT SCONCE LED LIGHTING FIXTURE. LED EATON WA-STD-W3500K (CORELITE) 120 78 PHOENIX FLOOR MODEL MLF-MF-120-WW-CD LED FLOOR UPLIGHT FOR FLAGPOLE EL-13000K MOUNTED 000-09850-LED 120 10 LED SURFACE | LED CEILING LAMPHOLDER. LEVITON SPRING CITY + L10 LED 3000K 120 JEF-LE060-2G2-30-FM3-YPL0 60 PROVIDED BY OWNER 3000K ELECTRICAL EL-2TYPE 2 DISTRIBUTION POLE MOUNTED MAXIM LIGHTING (1) 60W E26 | 120 SHORELINE 60 SURFACE WALL MOUNT DECORATIVE OUTDOOR EL-3120 72 LEOTEK AR13-48N-MV-WW-2-XX-100-S LED POLE LIGHTING FIXTURE. PROVIDE DIMMING DRIVER 10104BK LIGHTING FIXTURE. MEDUIM 3000K PND1. INTEGRATE WITH LIGHTING CONTROLS.

NOTES:

- 1. VERIFY ALL FIXTURE CATALOG NUMBERS FOR INTENDED APPLICATIONS WITH REQUIRED ACCESSORIES.
- 2. ALL BALLASTS IN FIXTURES LOCATED OUTDOORS SHALL BE ZERO DEGREE RATED STARTING TEMPERATURE. REFER TO DRAWINGS FOR LOCATION OF FIXTURES.
- 3. ALL LIGHT FIXTURES TAGGED AS "EM" SHALL BE FED FROM EMERGENCY POWER PANELS. THESE FIXTURES SHALL BE SWITCHED AS INDICATED. UPON LOSS OF NORMAL POWER, EMERGENCY LIGHT FIXTURES SHALL BE AUTOMATICALLY SHUNTED TO FULL BRIGHT REGARDLESS OF STATE OF CONTROLLING SWITCH. SEE DETAIL FOR ADDITIONAL INFORMATION.
- 4. IN THE EVENT THE CONTRACTOR CHOOSES TO SUBSTITUTE LIGHT FIXTURES FOR THOSE THAT ARE SPECIFIED ON THE LIGHT FIXTURE SCHEDULE, THE CONTRACTOR SHALL SUBMIT POINT—TO—POINT PHOTOMETRIC CALCULATIONS FOR ALL AREAS WHERE THE SUBSTITUTED FIXTURES ARE INDICATED TO BE INSTALLED ON THE DRAWINGS. THESE CALCULATIONS SHALL BE SUBMITTED ALONG WITH THE LIGHT FIXTURE SHOP DRAWINGS.

Sullivan Architecture, P.C.

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MEP Engineer: OLA Consulting Engineers

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Date Issue 03.10.20 MEETING 03.27.20 DESIGN DEVELOPMENT 05.07.20 PROGRESS 05.08.20 CD PROGRESS SET 05.28.20 CD PROGRESS SET 06.30.20 CD REVIEW SET 09.01.20 CONSTRUCTION PROGRESS 09.15.20 ICC SUBMISSION 01.15.21 ISSUED FOR BID

Project Title

Bedford Headquarters

550 Old Post Road Bedford, NY 10506

Drawing Title

ELECTRICAL LIGHTING FIXTURE SCHEDULE

Project No.	NSPC0070.00
Date	03-27-20
Scale	NONE
Drawing by	JL/MRP



JF/RS

E6.1

rawing No.

	LRP1 SCHED	DULE (LIG	HTING RE	LAY PANEL)	
RELAY NO.	DESCRIPTION	CIRCUIT BREAKER SERVING RELAY	CIRCUIT BREAKER SERVING RELAY	DESCRIPTION	RELAY NO.
1	LTG - 1ST FLR RM 103	LP1-1	LSP1-2	LTG - 1ST FLR RM 101	2
3	LTG - 1ST FLR RM 120	LP1-1	LSP1-2	LTG - 1ST FLR RM 117	4
5	LTG - 1ST FLR RM 121	LP1-1	LSP1-2	LTG - 1ST FLR RM 115	6
7	LTG - 1ST FLR RM 124	LP1-3	LSP1-4	LTG - 1ST FLR RM 113	8
9	LTG - 1ST FLR RM 122	LP1-3	LSP1-4	LTG - 1ST FLR RM 119	10
11	LTG - 1ST FLR RM 124	LP1-3	LSP1-6	LTG - 1ST FLR RM 119	12
13	LTG - 1ST FLR RM 126	LP1-3	LSP1-6	LTG - 1ST FLR RM 119	14
15	LTG - 1ST FLR RM 127	LP1-3	LSP1-8	LTG - 1ST FLR RM 103	16
17	LTG - 1ST FLR RM 128	LP1-5	LSP1-8	LTG - 1ST FLR RM 106	18
19	LTG - 1ST FLR RM 130	LP1-5	LSP1-8	LTG - 1ST FLR RM 108	20
21	LTG - 1ST FLR RM 131	LP1-5	LSP1-8	LTG - 1ST FLR RM 125, 132	22
23	LTG - 1ST FLR RM 125	LP1-5			24
25	LTG - 1ST FLR RM 132	LP1-5			26
27	LTG - 1ST FLR RM 114	LP1-7			28
29	LTG - 1ST FLR RM 112	LP1-7			30
31	LTG - 1ST FLR RM 111	LP1-7			32
33	LTG - 1ST FLR RM 106	LP1-7			34
35	LTG - 1ST FLR RM 107	LP1-7			36
37	LTG - 1ST FLR RM 110	LP1-7			38
39	LTG - OUTDOOR (TYPE L17 WEST)	LP1-12			40
41	LTG - OUTDOOR (TYPE L17 TRAINING BALCONY 2)	LP1-12			42
43	LTG - OUTDOOR (TYPE L17 TRAINING BALCONY 1)	LP1-12			44
45	LTG — OUTDOOR (TYPE L17 EAST)	LP1-12			46
47	LTG — OUTDOOR	LP1-2			48

NOTES:

- 1. PANEL SHALL BE GR2400 MASTER RELAY PANEL WITH 48 RELAYS. PROVIDE INTEGRAL DIGITAL TIME CLOCK WITH MODEM.
- 2. CONTRACTOR SHALL COORDINATE TIME CLOCK REQUIREMENTS WITH THE OWNER AND PROGRAM TO SUIT THE OWNERS NEEDS.
- 3. BARRIER SHALL BE PROVIDED BETWEEN NORMAL AND EMERGENCY SIDE OF PANEL.

	LRPS SCHEDULE (SITE LIGHTING RELAY PANEL)											
RELAY NO.	DESCRIPTION	CIRCUIT BREAKER SERVING RELAY	CIRCUIT BREAKER SERVING RELAY		DESCRIPTION	RELAY NO.						
1	LTG — SIGNS AT STREET	LP1-9		SPARE		2						
3	RECP — CHRISTMAS TREE AT STREET	LP1-9		SPARE		4						
5	LTG — FLAGPOLE	LP1-9		SPARE		6						
7						8						
9						10						
11						12						
			•			,						

NOTES:

1. PANEL SHALL BE GR2400 MASTER RELAY PANEL WITH 12 RELAYS. PROVIDE INTEGRAL DIGITAL TIME CLOCK WITH MODEM.

2. CONTRACTOR SHALL COORDINATE TIME CLOCK REQUIREMENTS WITH THE OWNER AND PROGRAM TO SUIT THE OWNERS NEEDS.

LS	LSP1 PANEL SCHEDULE (FUSED LIFE-SAFETY PANEL)										
	MAIN RATING: 100A	МА	IN: MLC)		KAIC RATING: 42KAIC					
	VOLTAGE: <u>208Y/120V</u>	PH.	ASE: 3	<u>S</u> WIF	RE: <u>4</u>	MOUNTING: <u>RECESSED</u>					
CIRC. NO.	LOAD DESCRIPTION	FUSE AMPS	NO. OF POLES	NO. OF POLES	FUSE AMPS		CIRC. NO.				
1	LTG - ST-2	20	1	1	20	LRP1-2,4,6	2				
3	FACP	20LK	1	1	20	LRP1-8,10	4				
5	DOOR CONTROLS	20	1	1	20	LRP1-12	6				
7	DOOR CONTROLS	20	1	1	20	LRP1-14,16,18,20,22	8				
9	DOOR CONTROLS	20	1	1	20	ELEV LIGHT & ELEV. PIT LIGHT	10				
11	DOOR CONTROLS	20	1	1	20	RESCUE ASSISTANCE MASTER	12				
13	DOOR CONTROLS	20	1				14				
15	DOOR CONTROLS	20	1				16				
17	DOOR CONTROLS	20	1				18				
19	DOOR CONTROLS	20	1				20				
21							22				
23							24				
25							26				
27							28				
29							30				
31							32				
33							34				
35	SPARE	20	1	1	20	SPARE	36				
	00.00		1	ш.		00.105	7.0				

LK - PROVIDE LOCKING TABS

37 SPARE

39 SPARE

41 SPARE

NOTES: PROVIDE INTEGRAL SURGE PROTECTOR WITH VISIBLE STATUS INDICATION AND SURGE COUNTER.

1 20 SPARE

1 20 SPARE

1 20 SPARE

		_ I / _		<u> </u>)ULE	
	MAIN RATING: 100A		M.L.	Ο.		KAIC RATING: 42KAIC	
	VOLTAGE: <u>208Y/120V</u>	PH	ASE: <u>3</u>	_ WIF	RE: <u>4</u>	MOUNTING: RECESSED	
CIRC. NO.	LOAD DESCRIPTION	BKR. AMPS	NO. OF POLES	NO. OF POLES	BKR. AMPS	LOAD DESCRIPTION	
1	LRP1-1,3,5	20	1	1	20	LRP1-47	T
3	LRP1-7,9,11,13,15,	20	1	1	15	CEILING FAN - 1ST FLR 119	
5	LRP1-17,19,21,23,25	20	1	1	15	CEILING FAN - 1ST FLR 119	
7	LRP1-27,29,31,33,35,37	20	1	1	20	SITE LIGHTS	
9	LRPS-1,3,5	20	1	1	20	SITE LIGHTS	
11	SPARE	20	1	1	20	LRP1-39 THRU 45	
13	SPARE	20	1	1	20	SPARE	
15	SPARE	20	1	1	20	SPARE	
17	SPARE	20	1	1	20	SPARE	
19	SPARE	20	1	1	20	SPARE	
21							
23							
25							
27							
29							
31							
33							
35	SPARE	20	1	1	20	SPARE	
37	SPARE	20	1	1	20	SPARE	\perp
39	SPARE	20	1	1	20	SPARE	
41	SPARE	20	1 1	1	20	SPARE	

AF - ARC FAULT TYPE C.B.; ST - SHUNT TRIP C.B.

Sullivan Architecture, P.C.

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Project Title

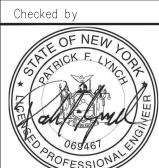
Bedford Fire Headquarters

550 Old Post Road Bedford, NY 10506

Drawing Title

ELECTRICAL **PANEL** SCHEDULES

Project No.	NSPC0070.00
Date	03-27-20
Scale	NONE
Drawing by	JL/MRP



E6.2

	PM1	PA	NEL	. SC	HE	DULE	
	MAIN RATING: 400A	МА	IN C.B.	: 400A	_	KAIC RATING: 65KAIC	
	VOLTAGE: <u>208Y/120V</u>	PH	ASE: 3	<u>.</u> Wif	RE: <u>4</u>	MOUNTING: <u>SURFACE</u>	
CIRC. NO.	LOAD DESCRIPTION	BKR. AMPS	NO. OF POLES	NO. OF POLES	BKR. AMPS	LOAD DESCRIPTION	CIRC NO.
1 3 5	ACC-1 (MOD 1)	70	3	3	70	ACC-1 (MOD 2)	2 4 6
7 9 11	ACC-3 (MOD 1)	80	3	3	90	ACC-2	8 10 12
13 15 17	ACC-3 (MOD 2)	80	3	3	70	ACC-4	14 16 18
19	SPARE AC-C - 1ST FLR DAY RM 106	20	2	2	15	AC-1 - 1ST FLR MECH RM 114	20
232527	& LOBBY 101 AC-A - 1ST FLR DISPATCH RM 108 & IT RM 109	20	2	1 1 1	20 20 15	GFUH-A - APPARATUS BAY SPARE UH-B - 1ST FLR 131	24 26 28
29 31	AC-D - 1ST FLR EXERCISE 103	20	2	2	20	ECUH-A - 1ST FLR VEST 107	30 32
33 35	AC-D - 1ST FLR AIR RM 120	20	2	2	20	ECUH-A - 1ST FLR VEST 132	34 36
37 39	AC-D - 2ND FLR CLASSROOM 204 & OFFICE 205	20	2	2	20	ECUH—A — 1ST FLR STAIR ST2	38 40
41	AC-A,B,D-2ND FLR COPY 203 CHIEF OFF. 202, DEP OFF. 212	20	2	2	20	ECUH-B - 1ST FLR PWDR 102	42
45 47 49	VEF-1 - APPARATUS BAY	30	3	1 1 1	15 20 15	DHWH-1 - 1ST FLR 114 SPARE TX-2 - IST FLR 124	46 48 50
515355	VEF-2 — APPARATUS BAY	30	3	2	20 15	SPARE AC-2 - ATTIC	52 54 56
57 59 61	WASHER — DECON ROOM	20	3	1 1 1	20 20 20	SPARE SPARE MOTORIZED DAMPERS	58 60 62
63 65 67	DRYER - DECON ROOM 4-#8 & 1-#10 GND, 3/4"C	40	3	1 1 1	25 35 35	SUMP PUMP SP-1 AIRVAC (FUTURE) AIRVAC (FUTURE)	64 66 68
69	SPARE	20	1	1	35	AIRVAC (FUTURE)	70
	SPARE PROVIDE LOCKING TABS ON C.B ARC FAULT TYPE C.B.; ST — S				20 2.B.; C	SPARE GP — GFP TYPE C.B.;	72

	RPI [*]	T PA	ANEL	_ SC	HE	DULE	
	main rating: <u>100a</u>	MA	IN C.B.	: <u>100A</u>		KAIC RATING: 42KAIC	
	VOLTAGE: <u>208Y/120V</u>	PH.	ASE: 3	<u>3</u> Wif	RE: <u>4</u>	MOUNTING: <u>SURFACE</u>	
CIRC. NO.	LOAD DESCRIPTION	BKR. AMPS	NO. OF POLES	NO. OF POLES	BKR. AMPS	LOAD DESCRIPTION	CIRC NO.
1	RECP - DEDICATED	20	1	1	20	RECP - DEDICATED	2
3	RECP - DEDICATED	20	1	1	20	RECP — DEDICATED	4
5	RECP - DEDICATED	20	1	2	20	RECP - DEDICATED 208V	6
7	DEOD DEDICATED 2001/	20	2		20	RECP — DEDICATED 200V	8
9	RECP - DEDICATED - 208V	20	2	1	20	SPARE	10
11	SPARE	20	1	1	20	SPARE	12
13	SPARE	20	1	1	20	SPARE	14
15	SPARE	20	1	1	20	SPARE	16
17	SPARE	20	1	1	20	SPARE	18
19	SPARE	20	1	1	20	SPARE	20
21	SPARE	20	1	1	20	SPARE	22
23	SPARE	20	1	1	20	SPARE	24
25	SPARE	20	1	1	20	SPARE	26
27	SPARE	20	1	1	20	SPARE	28
29	SPARE	20	1	1	20	SPARE	30
31	SPARE	20	1	1	20	SPARE	32
33	SPARE	20	1	1	20	SPARE	34
35	SPARE	20	1	1	20	SPARE	36
37	SPARE	20	1	1	20	SPARE	38
39	SPARE	20	1	1	20	SPARE	40
41	SPARE	20	1	1	20	SPARE	42

NOTES:

NOTES:

	main rating: 200A	MA	IN C.B.	: <u>200A</u>	<u>-</u>	KAIC RATING: 42KAIC	
	VOLTAGE: <u>208Y/120V</u>	PH	ASE: 3	<u> </u>	RE: <u>4</u>	MOUNTING: <u>SURFACE</u>	
CIRC. NO.	LOAD DESCRIPTION	BKR. AMPS	NO. OF POLES	NO. OF POLES	BKR. AMPS	LOAD DESCRIPTION	CIR(NO
1 3 5	HOSE REEL — 1ST FLR 119	45	3	3	45	HOSE REEL — 1ST FLR 119	2 4 6
7 9 11	HOSE REEL — 1ST FLR 119	45	3	3	45	HOSE REEL — 1ST FLR 119	8 10 12
13 15 17	HOSE REEL — 1ST FLR 119	45	3	3	45	HOSE REEL — 1ST FLR 119	14 16 18
19 21 23	HOSE REEL — 1ST FLR 119	45	3	3	45	HOSE REEL - 1ST FLR 119	20 22 24
25	GENERATOR RECEPTACLE	20	1	1	20	MASS NOTIFICATION POLE	26
27	GENERATOR BATTERY CHARGER	20	1	1	20	SITE FUEL PUMP	28
29	GENERATOR BLOCK HEATER	20	1	1	20	PUMP CHAMBER	30
31	STACKABLE WASHER/DRYER	20	1	1	20	ZAMBONI CHARGER	32
33	GRAGE DOOR MOTOR	20	1	1	20	GRAGE DOOR MOTOR	34
35	GRAGE DOOR MOTOR	20	1	1	20	GRAGE DOOR MOTOR	36
37	GRAGE DOOR MOTOR	20	1	1	20	GRAGE DOOR MOTOR	38
39	GRAGE DOOR MOTOR	20	1	1	20	GRAGE DOOR MOTOR	40
41	SPARE	20	1	1	20	SPARE	42
43	SPARE	20	1	1	20	SPARE	44
45	SPARE	20	1	1	20	SPARE	46
47	SPARE	20	1	1	20	SPARE	48
49	SPARE	20	1	1	20	SPARE	50
51	SPARE	20	1	1	20	SPARE	52
	SPARE	20	1	I 4	20	SPARE	54

	MAIN RATING: <u>200A</u>	МА	IN C.B.	: <u>200A</u>	-	KAIC RATING: 42KAIC	
	VOLTAGE: <u>208Y/120V</u>	PH	ASE: 3	<u>.</u> Wif	RE: <u>4</u>	MOUNTING: <u>SURFACE</u>	
CIRC. NO.	LOAD DESCRIPTION	BKR. AMPS	NO. OF POLES	NO. OF POLES	BKR. AMPS	LOAD DESCRIPTION	CIR(NO
1 3	GS-1&2 - 1ST FLR MECH 131	20	2	2	15	HV-1 - 1ST FLR 131	2 4
5 7	B-1 - 1ST FLR 131	20	2	2	15	P-1 - 1ST FLR 131	6 8
9	RADIANT HEAT MANIFOLD 131	20	1	1	20	RADIANT HEAT MANIFOLD 131	10
11 13	MOTORIZED DAMPERS — ATTIC AC-3 — ATTIC	20	1 2	2	15	SPARE FOR AC-5 - ATTIC (ADD-ALT #1)	12 14
15 17	AC-3 - ATTIC AC-4 - ATTIC	15	2	2	15	SPARE FOR AC-6 - ATTIC (ADD-ALT #1)	16 18
19 21	SF-1	20	1	2	15	AC-C - 2ND FLR	20
23	SPARE	20	1	1	25	UH-A - MEZZZNINE	24
25	DHWH-2	15	1	1	25	UH-A - MEZZZNINE	26
27 29	GX-1 - ROOF	15	3	2	15	TX-1 - ROOF	28
31 33				2	25	EF-1 - AIR ROOM 120	32 34
35 37	GX-2 - ROOF	15	3	1	15	HWCP-1 1ST FLR	36 38
39	SPARE	20	1	3	20	DUCT HEATER EDH-3	40
41	SPARE	20	1				42
43	SPARE	20	1	1	20	SPARE	44
45	SPARE	20	1	1	20	SPARE	46
47	SPARE	20	1	1	20	SPARE	48
49	SPARE	20	1	1	20	SPARE	50
51	SPARE	20	1	1	20	SPARE	52
53	SPARE	20	1	1	20	SPARE	54

	MAIN RATING: 200A	M.L	O.			KAIC RATING: 42KAIC
	VOLTAGE: <u>208Y/120V</u>	PH	ASE: 3	_ WIF	RE: <u>4</u>	MOUNTING: <u>SURFACE</u>
CIRC. NO.	LOAD DESCRIPTION	BKR. AMPS	NO. OF POLES	NO. OF POLES	BKR. AMPS	LOAD DESCRIPTION
1	RECP - 1ST FLR 106	20	1	1	20	RACK - 1ST FLR 113
3	RECP - 1ST FLR 106	20	1	1	20	RACK - 1ST FLR 113
5	RECP - 1ST FLR REF. 106	20	1	1	20	RACK - 1ST FLR 113
7	RECP - 1ST FLR 106	20	1	1	20	RECP - 1ST FLR 113
9	SPARE	20	1	1	20	RECP - 1ST FLR 102,105,110
11	RECP - 1ST FLR 108	20	1	1	20	HAND DRYER 1ST FLR 105
13	RECP - 1ST FLR 108	20	1	1	20	RECP - 1ST FLR 103
15	RECP - 1ST FLR 108	20	1	1	20	RECP - 1ST FLR 103
17	RECP - 1ST FLR 115	20	1	1	20	RECP - 1ST FLR 103
19	HAND DRYER 1ST FLR 115	20	1	1	20	RECP - 1ST FLR 103
21	RECP - 1ST FLR 117	20	1	1	20	RECP - 1ST FLR CORR. & LOBBY
23	HAND DRYER - 1ST FLR 117	20	1	1	20	RECP - 1ST FLR 119
25	RECP - 1ST FLR 121	20	1	1	20	RECP - 1ST FLR 119
27	RECP - 1ST FLR 121	20	1	1	20	RECP - 1ST FLR 111
29	RECP - 1ST FLR 123	20	1	1	20	RECP - 1ST FLR WATER FOUNTAINS
31	RECP - 1ST FLR 124,125,132	20	1	1	20	RECP - 1ST FLR MECH RM 114
33	RECP - 1ST FLR 126,127,128	20	1	1	20	RECP - 1ST FLR 112
35	RECP - 1ST FLR 131	20	1	1	20	RECP - 1ST FLR 119
37	RECP - 1ST FLR 120	20	1	1	20	RECP - OUTDOOR
39	HAND DRYER - 1ST FLR 124	20	1	1	20	RECP - OUTDOOR
41	RECP - 1ST FLR 119	20	1	1	20	RECP — ELEVATOR PIT
43	RECP - 1ST FLR 119	20	1	1	20	RECP - ICE MACHINE RM 123
45	RECP - TV'S 1ST FLR 119	20	1	1	20	RECP - TV'S 1ST FLR 119
47	RECP - TV'S 1ST FLR 103	20	1	1	20	SPARE
49	HAND DRYER 1ST FLR 105	20	1	1	20	SPARE
51	SPARE	20	1	1	20	SPARE
53	SPARE	20	1	1	20	SPARE

NOTES:

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Bedford Village
Fire District

34 Village Green
Bedford, NY 10506

MEP Engineer: OLA Consulting Engineers

50 Broadway, Hawthorne, NY 10532 8 West 38th St. Suite 501, New York, NY Tel: 914-747-2800

 03.10.20
 MEETING

 03.27.20
 DESIGN DEVELOPMENT

 05.07.20
 PROGRESS

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 CD PROGRESS SET

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 CD REVIEW SET

 09.01.20
 CONSTRUCTION PROGRESS

 09.15.20
 ICC SUBMISSION

01.15.21 ISSUED FOR BID

Date Issue

Project Title

Bedford Fire Headquarters

550 Old Post Road Bedford, NY 10506

Drawing Title

ELECTRICAL PANEL SCHEDULES

Project No. NSPC0070.00

Date 03-27-20

Scale NONE

Drawing by JL/MRP

Checked by

JF/RS
Drawing No.

E6.3

	KP	PA	NEL	SCH	HED	ULE	
	MAIN RATING: 200A		M.L	M.L.O. KAIC RATING:			
	VOLTAGE: <u>208Y/120V</u>	PH	ASE: 3	_ WIF	RE: <u>4</u>	MOUNTING: <u>SURFACE</u>	
CIRC. NO.	LOAD DESCRIPTION	BKR. AMPS	NO. OF POLES	NO. OF POLES	BKR. AMPS	LOAD DESCRIPTION	CIRC. NO.
1 3	EUH-A	15	2	2	15	EUH-A	2 4
5 7	EUH-A	15	2	2	15	EUH-A	6 8
9	SPARE	20	1	1	20	RECP 2ND FLOOR	10
11	SPARE	20	1	1	20	RECP 2ND FLOOR	12
13	SPARE	20	1	1	20	SPARE	14
15	SPARE	20	1	1	20	SPARE	16
17							18
19							20
21							22
23							24
25							26
27							28
29							30
31							32
33							34
35							36
37							38
39							40
41							42
AF -	PROVIDE LOCKING TABS ON C.E. ARC FAULT TYPE C.B.; ST — S				S.B.; (GP — GFP TYPE C.B.;	1
NOTE	J.						

	main rating: 100A		МА	IN: <u>M.L</u>	<u>.O.</u>	KAIC RATING: 42KAIC	
	VOLTAGE: <u>208Y/120V</u>	PH/	ASE: <u>3</u>	<u>s</u> Wif	RE: <u>4</u>	MOUNTING: <u>SURFACE</u>	
CIRC. NO.	LOAD DESCRIPTION	FUSE AMPS	NO. OF POLES	NO. OF POLES	FUSE AMPS	LOAD DESCRIPTION	CIR NC
1	LRP2-2,4	20	1	1	20	LRP2-2,4	2
3	SPARE	20	1	1	20	LRP2-6,8	4
5	SPARE	20	1	1	20	LRP2-10	6
7	LTG - 2ND FLR ST-1	20	1	1	20	LRP2-12,14,16	8
9	SPARE	20	1	1	20	LRP2-18,20,22,24,26,28	1(
11	SPARE	20	1	1	20	SPARE	12
13	SPARE	20	1	1	20	SPARE	1.
15	SPARE	20	1	1	20	SPARE	16
17							18
19							20
21							2.
23							2.
25							20
27							2
29							3
31							3:
33							3,
35							3
37							38
39							4:
41							4

	MAIN RATING: 200A	MA	IN C.B.	: <u>200</u> A	<u>\</u>	KAIC RATING: 42KAIC	
	VOLTAGE: <u>208Y/120V</u>	PH	ASE: 3	<u>.</u> WI	RE: <u>4</u>	MOUNTING: <u>SURFACE</u>	
CIRC. NO.	LOAD DESCRIPTION	BKR. AMPS	NO. OF POLES	NO. OF POLES	BKR. AMPS	LOAD DESCRIPTION	CIR(NO
1	_	_	_	_	_	_	2
3	_	_	_	_	_	_	4
5	_	_	_	_	_	_	6
7	_	_	_	_	_	_	8
9	_	_	_	_	_	_	1C
11	_	_	_	_	_	_	12
13	_	_	_	_	_	_	14
15	_	_	_	_	_	_	16
17	_	_	_	_	_	_	18
19	_	_	_	_	_	_	20
21	_	_	_	_	_	_	22
23	_	_	_	_	_	_	24
25	_	_	_	_	_	_	26
27	_	_	_	_	_	_	28
29	_	_	_	_	_	_	30
31	_	_	_	_	_	_	32
33	_		_	_	_	_	34
35	SPARE	20	1	1	20	SPARE	36
37	SPARE	20	1	1	20	SPARE	38
39	SPARE	20	1	1	20	SPARE	40
41	SPARE	20	1	1	20	SPARE	42
LK -	PROVIDE LOCKING TABS ON C ARC FAULT TYPE C.B.; ST —	B.; GF	– GFI				1 72

	MAIN RATING: 200A	МА	IN C.B.:	200A	-	KAIC RATING: 42KAIC	
	VOLTAGE: <u>208Y/120V</u>	PH.	ASE: <u>3</u>	_ WIF	RE: <u>4</u>	MOUNTING: <u>SURFACE</u>	
CIRC. NO.	LOAD DESCRIPTION	BKR. AMPS	NO. OF POLES	NO. OF POLES	BKR. AMPS	LOAD DESCRIPTION	CIR NC
1	RECP - 2ND FLR 202	20	1	1	20	RECP - 2ND FLR 204	2
3	RECP - 2ND FLR 202	20	1	1	20	RECP - 2ND FLR 204	4
5	RECP - 2ND FLR 203	20	1	1	20	RECP - 2ND FLR 204	6
7	RECP - 2ND FLR 203 (COPIER)	20	1	1	20	RECP - 2ND FLR 204	8
9	RECP - 2ND FLR 212	20	1	1	20	RECP - 2ND FLR 205	1(
11	RECP - 2ND FLR 212	20	1	1	20	RECP - 2ND FLR 205	12
13	RECP - 2ND FLR 207, 210, 211	20	1	1	20	RECP - 2ND FLR 206, 213, 214	1.
15	RECP - 2ND FLR 218, 220	20	1	1	20	RECP - 2ND FLR 209, 208, 215	16
17	RECP - 2ND FLR HALL CLOSET	20	1	1	20	RECP - 2ND FLR 216, 217	18
19	RECP - 2ND FLR HALL CLOSET	20	1	1	20	RECP - 2ND FLR M-01	20
21	RECP - 2ND FLR HALL CLOSET	20	1	1	20	RECP - 2ND FLR M-02	2:
23	RECP - 2ND FLR WATER BOTTLE FILL	20	1	1	20	RECP - 2ND FLR 206	2.
25	HAND DRYER 2ND FLR 210	20	1	1	20	RECP - ATTIC	2
27	HAND DRYER 2ND FLR 211	20	1	1	20	RECP - TV 2ND FLR 204	2
29	OUTDOOR SIGN	20	1	1	20	SPARE	3
31	SPARE	20	1	1	20	SPARE	3.
33	SPARE	20	1	1	20	SPARE	3
35	SPARE	20	1	1	20	SPARE	3
37	SPARE	20	1	1	20	SPARE	3
39	SPARE	20	1	1	20	SPARE	4
41	SPARE	20	1	1	20	SPARE	4

	LRP2 SCHE	DULE (LIG	HTING RE	LAY PANEL)	
RELAY NO.	DESCRIPTION	CIRCUIT BREAKER SERVING RELAY	CIRCUIT BREAKER SERVING RELAY	DESCRIPTION	RELA`
1	LTG - 2ND FLR RM 202	LP2-1	LSP2-2	LTG - 2ND FLR RM 202	2
3	LTG - 2ND FLR RM 212	LP2-1	LSP2-2	LTG - 2ND FLR RM 212	4
5	LTG - 2ND FLR RM 210	LP2-1	LSP2-4	LTG - 2ND FLR RM 201	6
7	LTG - 2ND FLR RM 211	LP2-1	LSP2-4	LTG - 2ND FLR RM 215	8
9	LTG - 2ND FLR RM 204	LP2-3	LSP2-6	LTG - 2ND FLR RM 219	10
11	LTG - 2ND FLR RM 205	LP2-3	LSP2-8	LTG - 2ND FLR RM 209	12
13	LTG - 2ND FLR RM 206	LP2-3	LSP2-8	LTG - 2ND FLR RM 210	14
15	LTG - 2ND FLR RM 214	LP2-3	LSP2-8	LTG - 2ND FLR RM 211	16
17	LTG - 2ND FLR RM 213	LP2-3	LSP2-10	LTG - 2ND FLR RM 204	18
19	LTG - 2ND FLR RM 208	LP2-3	LSP2-10	LTG - 2ND FLR RM 205	20
21	LTG - 2ND FLR RM 216	LP2-5	LSP2-10	LTG - MEZZANINE M-01	22
23	LTG - 2ND FLR RM 217	LP2-5	LSP2-10	LTG - MEZZANINE M-02	24
25	LTG - 2ND FLR RM 220	LP2-5	LSP2-10	LTG - MEZZANINE STORAGE	26
27	LTG - 2ND FLR RM 218	LP2-5	LSP2-10	LTG - 2ND FLR RM 203	28
29	OUTDOOR	LP2-5			30
31	LTG - MEZZANINE M-02	LP2-7			32
33	LTG - MEZZANINE STORAGE	LP2-7			34
35	LTG - 2ND FLR RM UNNAMED	LP2-5			36
37	LTG - 2ND FLR RM 207	LP2-5			38
39	LTG - ATTIC	LP2-7			40
41					42
43					44
45					46
47					48

47						48
<u>N</u> (DTES:					
1.	PANEL SHALL BE GR2400 RELAY PANE	EL WITH 48 RELAYS	S. PROVIDE INTEGR	RAL DIGITAL TIME CL	LOCK WITH MODE	М.
2.	CONTRACTOR SHALL COORDINATE TIME NEEDS.	CLOCK REQUIREME	ENTS WITH THE O'	WNER AND PROGRAM	M TO SUIT THE C)WNERS

	MAIN RATING: 100A	MA	IN C.B.:	: MLO		KAIC RATING: 42KAIC	
	VOLTAGE: <u>208Y/120V</u>	PH	ASE: <u>3</u>	_ WIF	RE: <u>4</u>	MOUNTING: <u>SURFACE</u>	
CIRC. NO.	LOAD DESCRIPTION	BKR. AMPS	NO. OF POLES	NO. OF POLES	BKR. AMPS	LOAD DESCRIPTION	CIRC. NO.
1	LRP2-1,3,5,7	20	1	1	20	SPARE	2
3	LRP2-9,11,13,15,17,19	20	1	1	20	SPARE	4
5	LRP2-21,23,25,27,35,37	20	1	1	20	SPARE	6
7	LRP2-31,33,39	20	1	1	20	SPARE	8
9							10
11							12
13							14
15							16
17							18
19							20
21							22
23							24
25							26
27							28
29							30
31							32
33							34
35							36
37							38
39							40
41							42

31 Mamaroneck Avenue White Plains, New York 10601 914-761-6006 (F) 914-761-4919

> Bedford Village Fire District 34 Village Green Bedford, NY 10506

MEP Engineer: OLA Consulting Engineers

50 Broadway, Hawthorne, NY 10532 8 West 38th St. Suite 501, New York, NY Tel: 914-747-2800

Date Issue

03.10.20 MEETING

03.27.20 DESIGN DEVELOPMENT

05.07.20 PROGRESS

05.08.20 CD PROGRESS SET

05.28.20 CD PROGRESS SET

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09.01.20 CONSTRUCTION PROGRESS

09.15.20 ICC SUBMISSION

01.15.21 ISSUED FOR BID

Project Title

Bedford Fire Headquarters

550 Old Post Road Bedford, NY 10506

Drawing Title

ELECTRICAL PANEL SCHEDULES

Project No. NSPC0070.00

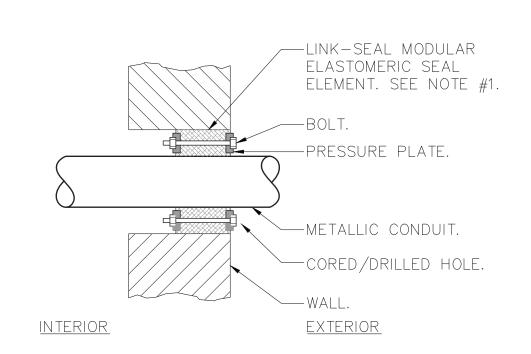
Date 03-27-20

Scale NONE

Drawing by JL/MRP

Checked by

Drawing No.

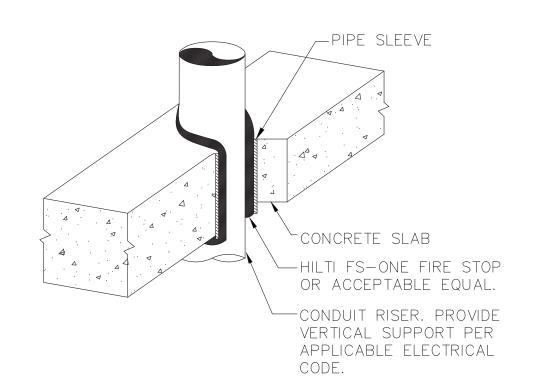


NOTES:

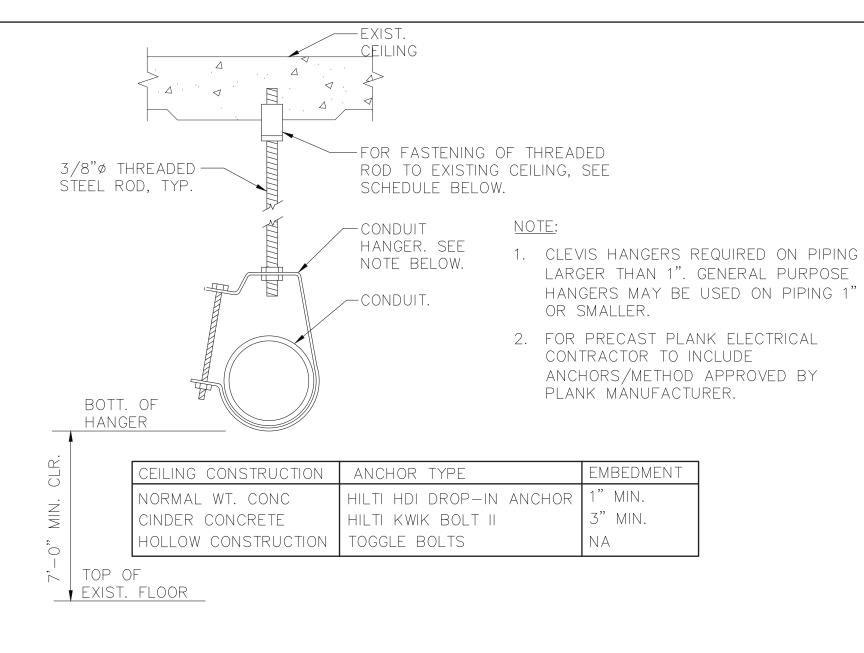
- 1. SEAL ASSEMBLY BASED ON MODEL "C" LINK-SEAL MODULAR SEAL, WITH EPDM SEAL ELEMENT, REINFORCED NYLON POLYMER PRESSURE PLATES, STEEL WITH 2-PART ZINC DICHROMATE & CORROSION INHIBITING COATING NUTS AND BOLTS AND WITH A OPERATING TEMPERATURE RANGE OF -40° F TO $+250^{\circ}$ F.
- 2. PROVIDE AND INSTALL TWO SEALS WHEN PENETRATED WALL THICKNESS IS GREATER THAN 12".
- 3. PROVIDE SCHEDULE 80 WALL SLEEVE FOR NEW WALL CONSTRUCTION PER MANUFACTURER'S REQUIREMENTS.

TYPICAL EXTERIOR MASONRY WALL

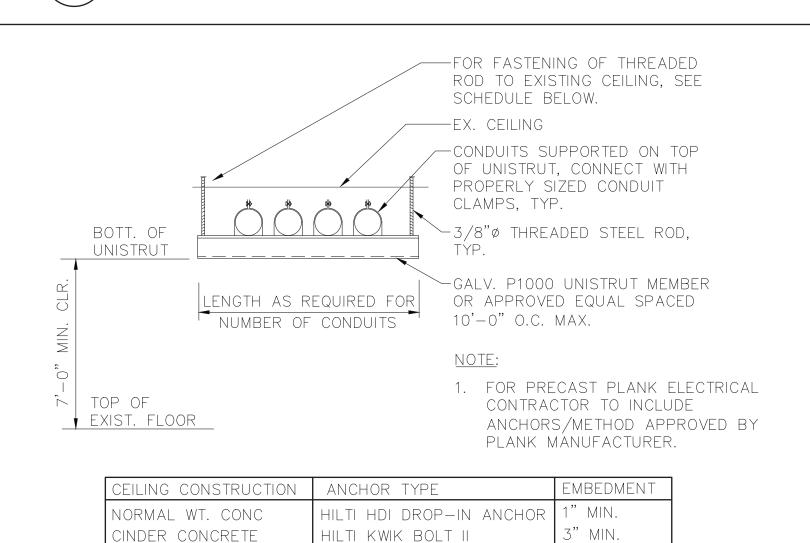
BELOW GRADE CONDUIT PENETRATION DETAIL



TYPICAL VERTICAL CONDUIT PENETRATION DETAIL

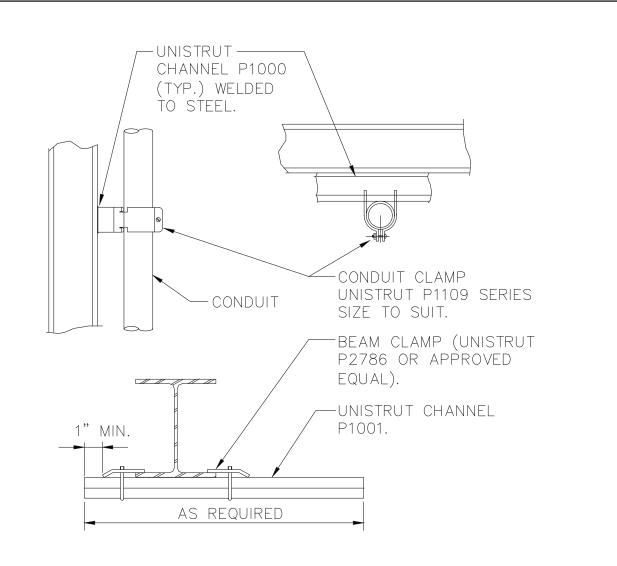


SINGLE CONDUIT HANGER DETAIL

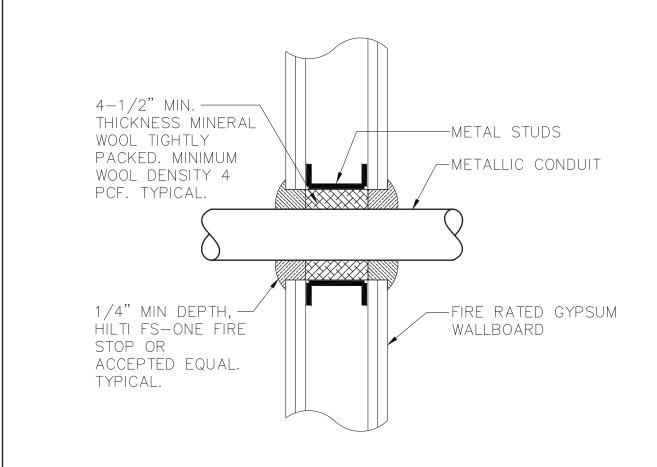


TRAPEZE SUPPORT DETAIL

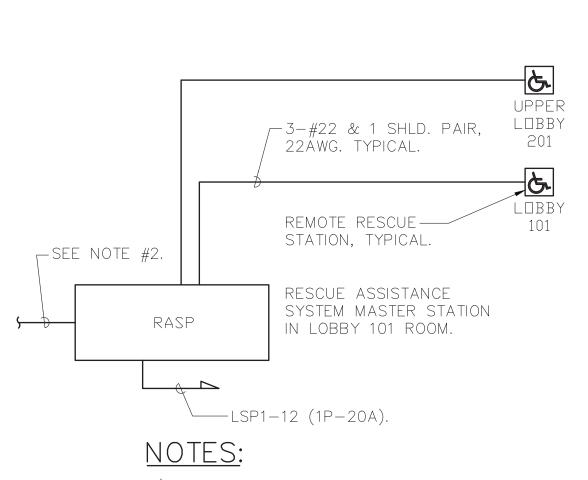
HOLLOW CONSTRUCTION | TOGGLE BOLTS



CONDUIT SUPPORTED FROM STRUCTURAL STEEL



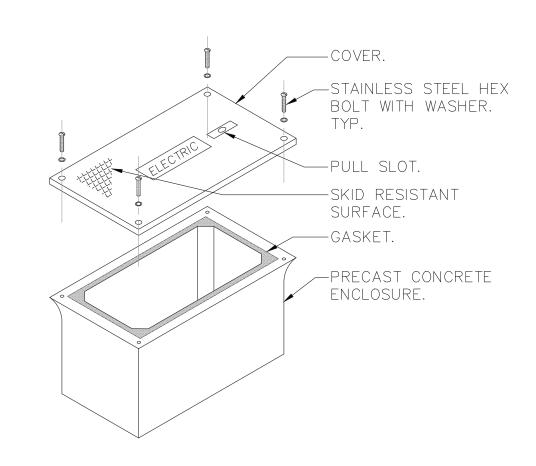
TYPICAL FIRE RATED GYPSUM WALL CONDUIT PENETRATION DETAIL
SCALE: NONE



1.) PROVIDE ALL NECESSARY WIRING, MODULES, COMPONENTS, EXTENDER CABINET, AND PROGRAMMING REQUIRED.

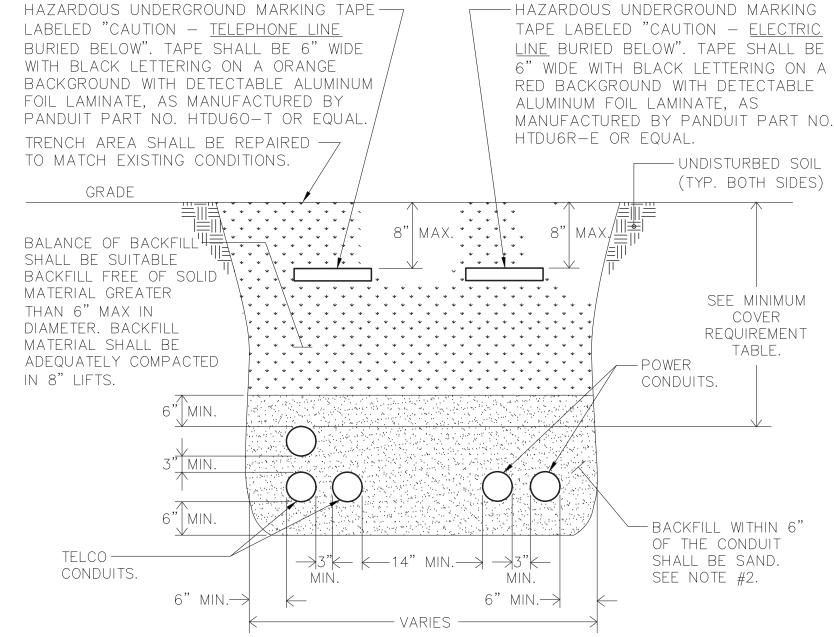
2.) PROVIDE A PHONE LINE PLUS A DIALER FOR RESCUE ASSISTANCE SYSTEM MASTER STATION MONITORING.

RESCUE ASSISTANCE SYSTEM RISER DIAGRAM



NOTES:

- . HAND HOLE SHALL BE 18"L x 11"W x 18"H WITH OPEN BOTTOM AND RATED FOR VEHICULAR TRAFFIC AS MANUFACTURED BY QUAZITE, MODEL #PC1118BA OR EQUAL. BOX SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S
- 2. PROVIDE 6" OF GRAVEL BELOW BOX.
- 3. COVER SHALL BE IMPRINTED WITH THE APPROPRIATE DESCRIPTION OF BOX CONTENTS (I.E. ELECTRIC, TELEPHONE, DATA, CABLE TV, ETC.).



FRENCHING DETAIL FOR CONDUIT

MINIMUM COVER REQUIREMENT TABLE

LOCATION	NONMETALLIC RACEWAYS LISTED FOR DIRECT BURIAL WITHOUT CONCRETE ENCASEMENT OR OTHER APPROVED RACEWAYS
ALL LOCATION NOT SPECIFIED BELOW.	18"
IN TRENCH BELOW 2—IN. THICK CONCRETE OR EQUIVALENT.	12"
UNDER MINIMUM OF 4-IN. THICK CONCRETE EXTERIOR SLAB WITH NO VEHICULAR TRAFFIC AND THE SLAB EXTENDING NOT LESS THAN 6 IN. BEYOND THE UNDERGROUND INSTALLATION.	4" SEE NOTE #2.
UNDER STREETS, HIGHWAYS, ROADS, ALLEYS, DRIVEWAYS, AND PARKING LOTS.	24"

NOTES:

- 1. DETAIL SHOWN FOR INFORMATION PURPOSES. SAME CONCEPT SHALL ALSO APPLY FOR SINGLE CONDUITS.
- 2. SAND MAY BE OMITTED FOR INSTALLATIONS WHERE COVER REQUIREMENTS ARE 6" OR LESS.

Sullivan Architecture, P.C.

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Project Title

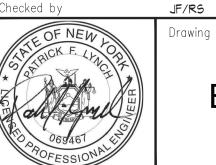
Bedford Fire Headquarters

550 Old Post Road Bedford, NY 10506

Drawing Title

ELECTRICAL DETAILS

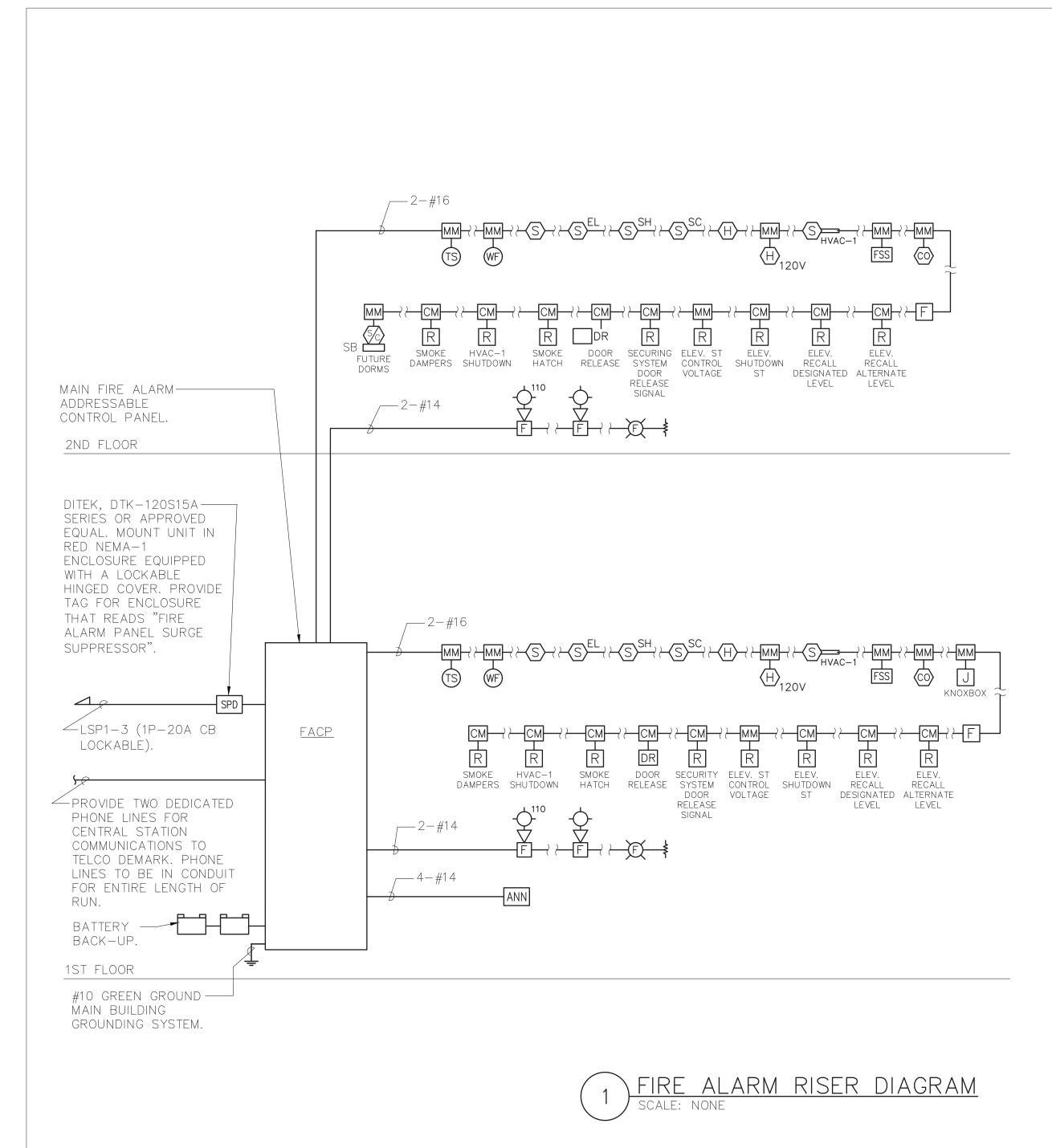
Project No. NSPC0070.00 03-27-20 Scale AS NOTED JL/WRP Drawing by



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E7.1

rawing No.



RISER NOTES:

- 1. THIS IS NOT A POINT-TO-POINT WIRING DIAGRAM. PRIOR TO STARTING ANY WORK. A WORKING POINT-TO-POINT WIRING DIAGRAM SHALL BE OBTAINED FROM FIRE ALARM SYSTEM VENDOR AND PERFORM ALL WORK IN ACCORDANCE WITH THAT DIAGRAM.
- 2. ELECTRICAL CONTRACTOR SHALL INCLUDE IN THE BASE BID ALL 120V CIRCUITS THAT ARE REQUIRED TO SUPPORT THE OPERATION OF THE FIRE ALARM SYSTEM. COORDINATE REQUIREMENTS WITH THE FIRE ALARM VENDOR.
- 3. QUANTITY OF STROBE BOOSTER POWER SUPPLY PANELS AND ASSOCIATED 120V CIRCUITS SHALL BE COORDINATED WITH SELECTED FIRE ALARM SYSTEM MANUFACTURER AND/OR FIRE ALARM VENDOR.
- 4. PROVIDE ALL NECESSARY WIRING, MODULES, COMPONENTS, EXTENDER CABINET, AND PROGRAMMING REQUIRED TO CONNECT NEW DEVICES.
- 5. PROVIDE ALL NECESSARY HARDWARE AND PROGRAMMING TO PROVIDE THE CLIENT WITH 20% SPARE CAPACITY ON ALL INITIATING AND INDICATING CIRCUITS.
- 6. PROVIDE AS PART OF THE BASE CONTRACT ALL LABOR AND MATERIALS TO INSTALL FIFTEEN (15) ADDITIONAL FIRE ALARM DEVICES DURING CONSTRUCTION. THE FIFTEEN (15) FIRE ALARM DEVICES CAN BE BUT NOT LIMITED TO SMOKE DETECTOR, HEAT DETECTOR, DOOR HOLDER, DUCT DETECTOR, FAN SHUTDOWN, TAMPER SWITCHES, FLOW SWITCHES, ETC. INCLUDE ALL LABOR AND MATERIALS INCLUDING WIRE, BOXES, CONDUIT, TERMINATIONS, HARDWARE, SOFTWARE, PROGRAMMING AND TESTING.
- 7. HEAT DETECTORS IN ELEVATOR MACHINE ROOM AND/OR SHAFT SHALL HAVE A LOWER TEMPERATURE RATING THAN THE NEARBY SPRINKLER HEAD(S). HEAT DETECTORS SHALL BE INSTALLED 2'-0" MAXIMUM AWAY FROM EACH SPRINKLER HEAD IN THE ELEVATOR MACHINE ROOM AND EACH HEAD LOCATED GREATER THAN 2'-0" ABOVE THE FLOOR OF THE ELEVATOR SHAFT. UPON ACTIVATION OF A HEAT DETECTOR USED FOR ELEVATOR POWER SHUTDOWN, THERE SHALL BE A DELAY IN THE ACTIVATION OF THE POWER SHUNT TRIP. THIS DELAY SHALL BE THE TIME THAT IT TAKES THE ELEVATOR CAB TO TRAVEL FROM THE TOP OF THE HOISTWAY TO THE LOWEST RECALL LEVEL. COORDINATE WITH ELEVATOR CONTRACTOR.
- 8. DUCT SMOKE DETECTORS SHALL BE FURNISHED AND WIRED BY ELECTRICAL CONTRACTOR AND INSTALLED IN DUCT WORK BY MECHANICAL CONTRACTOR.
- 9. CARBON MONOXIDE AND NATURAL GAS DETECTORS SHALL BE SUPERVISED BY FIRE ALARM SYSTEM BUT SHALL NOT SEND AN ALARM SIGNAL TO THE SYSTEM. THESE DETECTORS SHALL CONTAIN INTERNAL HORNS TO PROVIDE LOCAL ALARM ONLY.
- 10. ALL VISUAL ALARM DEVICES SHALL BE ADA COMPLIANT.
- 11. MAKE CONNECTIONS TO SIDES OR BOTTOM OF FACP ONLY.
- 12. ELECTRICAL CONTRACTOR TO PROVIDE A RELAY FOR EACH SMOKE DAMPER/COMBINATION FIRE SMOKE DAMPER. RELAYS ARE NOT SHOWN ON PLANS FOR CLARITY.
- 13. DOOR HOLDERS SHALL BE FURNISHED AND WIRED BY THE ELECTRICAL CONTRACTOR AND INSTALLED BY THE GENERAL CONTRACTOR.
- 14. MAINTAIN A 19" TO 24" CLEARANCE AROUND THE CENTERLINE OF THE BEAM OF BEAM TYPE SMOKE DETECTORS.
- 15. PROVIDE REMOTE LED INDICATORS FOR ALL CONCEALED FIRE ALARM DEVICES SUCH AS DUCT SMOKE DETECTORS, ABOVE CEILING SMOKE DETECTORS, ELEVATOR SHAFT DETECTORS, MONITORING AND CONTROL MODULES, ETC. LED INDICATORS FOR DEVICES MOUNTED ABOVE DROP CEILINGS SHALL BE MOUNTED BELOW ASSOCIATED DEVICES. LABEL INDICATORS TO INDICATE DEVICE SERVED.
- 16. THE CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE THE ENGINEER WITH AN ACCURATE AS-BUILT FIRE ALARM DRAWING, SHOWING INSTALLED DEVICE LOCATIONS AND A COMPLETE INTERCONNECTION WIRING DIAGRAM OF THE SYSTEM. THE DRAWINGS SHALL BE PROVIDED IN AUTOCAD FORMAT AND HARD COPIES. AS-BUILT DRAWINGS MUST BE PROVIDED TO THE ENGINEER BEFORE PROJECT CAN BE CLOSEOUT.
- 17. CONTRACTOR TO PROVIDE SMOKE DETECTOR(S) IN ALL LOCATIONS CONTAINING FIRE ALARM CONTROL PANELS, DATA GATHERING PANELS, BOOSTER POWER SUPPLIES, OR ANY OTHER FIRE ALARM SYSTEM PANEL, WHETHER SHOWN ON PLANS OR NOT.

FIRE ALARM	SYMBOL	S
SYMBOL	ABBREVIATION	DESCRIPTION
F	_	FIRE ALARM MANUAL PULL STATION
EKI	_	FIRE ALARM COMBINATION AUDIO/VISUAL DEVICE (15/75 CD — STROBE)
F K → 110	_	FIRE ALARM COMBINATION AUDIO/VISUAL DEVICE (110 CD — STROBE)
Œ	_	FIRE ALARM STROBE 15/75 CD
E 110	_	FIRE ALARM STROBE 110 CD
SEL; SH; SC	_	SMOKE DETECTOR. EL — ELEVATOR LOBBY; SH — SMOKE HATCH; SC — PLENUM RATED ABOVE CEILING
S SB	SB	FIRE ALARM DEVICE. SB — SOUNDER BASE FOR SMOKE OR CARBON MONOXIDE DETECTOR
	-	CARBON MONOXIDE DEVICE (15/75 CD - STROBE)
S AC	_	DUCT MOUNTED SMOKE DETECTOR
(H)	_	HEAT DETECTOR
<u></u>	_	CARBON MONOXIDE DETECTOR
(NG)	_	NATURAL GAS DETECTOR
) F	_	FIRE ALARM BELL
TS	_	FIRE ALARM TAMPER SWITCH
WF	_	FIRE ALARM WATER FLOW SWITCH
(WS)	_	FIRE ALARM WARDEN STATION
DR	_	FIRE ALARM DOOR RELEASE
ANN	_	FIRE ALARM ANNUNCIATOR PANEL
СМ	СМ	FIRE ALARM CONTROL MODULE
MM	ММ	FIRE ALARM MONITORING MODULE
FACP	FACP	FIRE ALARM CONTROL PANEL
BPS	BPS	BOOSTER POWER SUPPLY
DGP	DGP	DATA GATHERING PANEL
FCS	FCS	FIRE COMMAND STATION
FSS	FSS	FIRE SUPPRESSION SYSTEM PANEL
R	_	FIRE ALARM RELAY
	EOL	END OF LINE RESISTOR
	SD OR CFSD	SMOKE DAMPER
	ST	SHUNT TRIP

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03.10.20 MEETING 03.27.20 DESIGN DEVELOPMENT 05.07.20 PROGRESS 05.08.20 CD PROGRESS SET 05.28.20 CD PROGRESS SET 06.30.20 CD REVIEW SET 09.01.20 CONSTRUCTION PROGRESS 09.15.20 ICC SUBMISSION 01.15.21 ISSUED FOR BID

Project Title

Date Issue

Bedford Headquarters

550 Old Post Road Bedford, NY 10506

Drawing Title

FIRE ALARM SYMBOLS, ABBREVIATIONS, NOTES AND RISER DIAGRAM

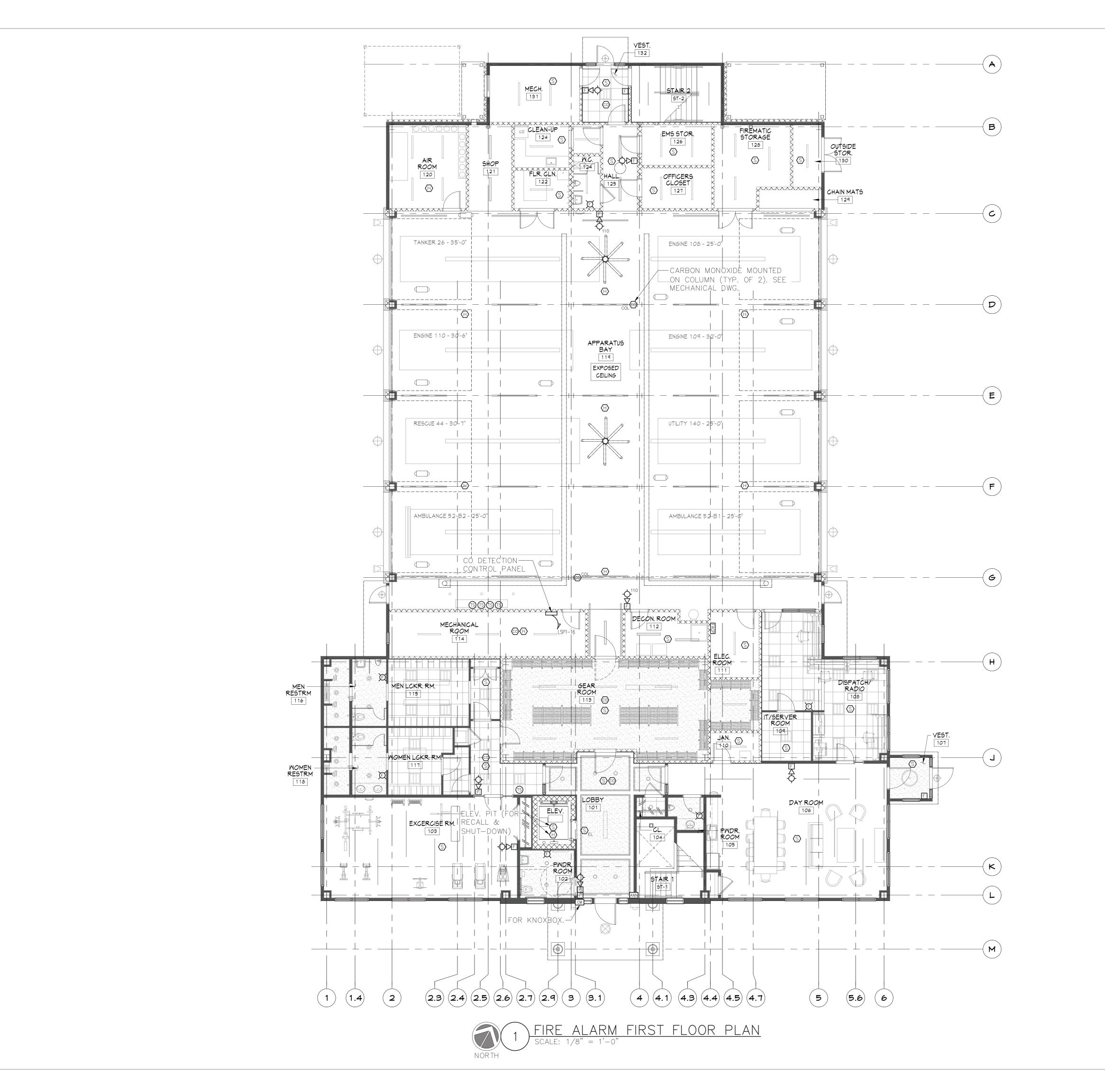
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06.30.20 CD REVIEW SET

09.01.20 CONSTRUCTION PROGRESS

09.15.20 ICC SUBMISSION
01.15.21 ISSUED FOR BID

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Project Title

Bedford Fire Headquarters

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Drawing Title

FIRE ALARM FIRST FLOOR PLAN

Project No. NSPC0070.00

Date 03-27-20

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 PROGRESS

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05.28.20 CD PROGRESS SET

06.30.20 CD REVIEW SET

09.01.20 CONSTRUCTION PROGRESS

09.15.20 ICC SUBMISSION
01.15.21 ISSUED FOR BID

Project Title

Bedford Fire Headquarters

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Drawing Title

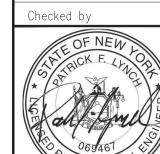
FIRE ALARM MEZZANINE & SECOND FLOOR PLAN

Project No. NSPC0070.00

Date 03-27-20

Scale AS NOTED

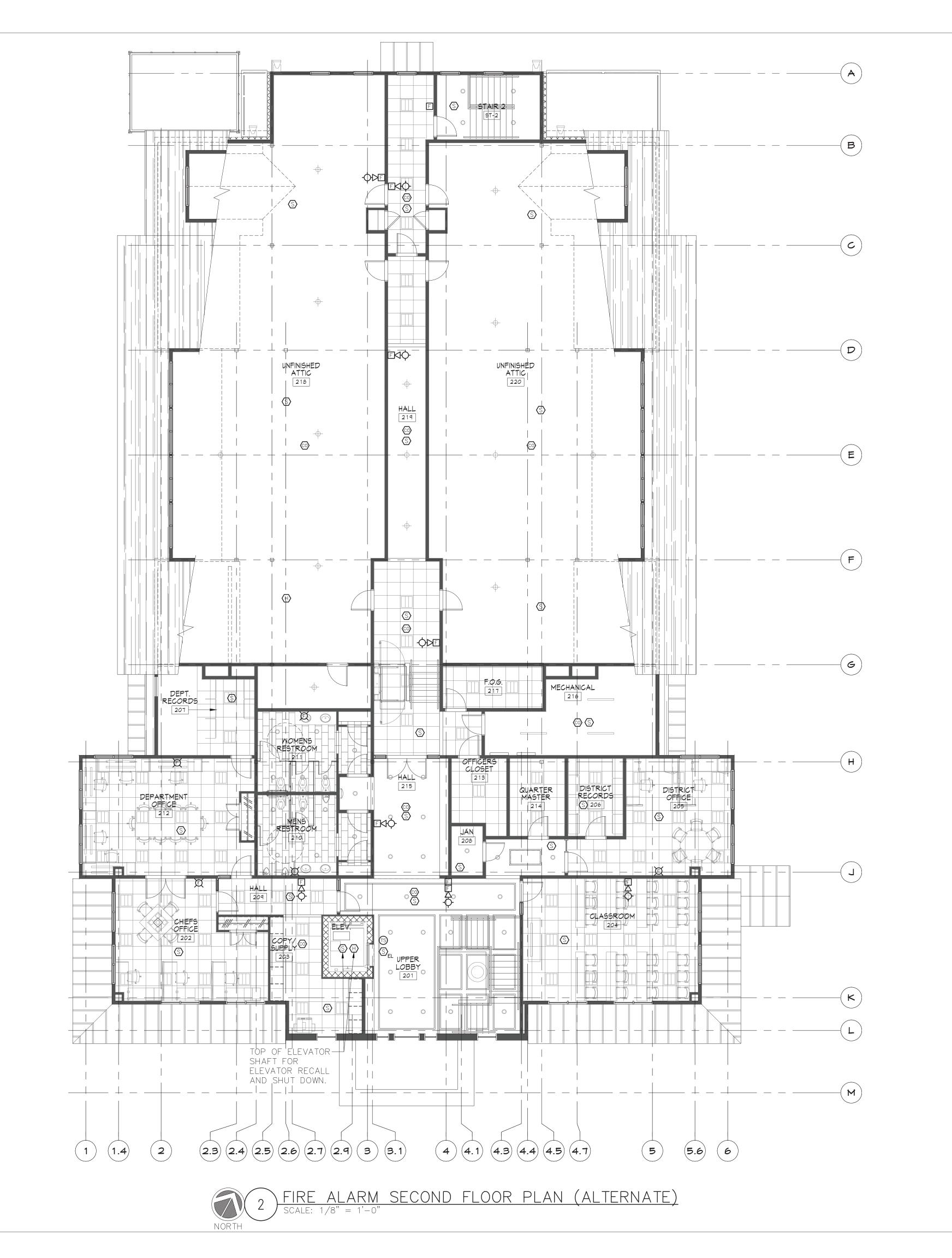
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Date Issue

03.10.20 MEETING

03.27.20 DESIGN DEVELOPMENT
05.07.20 PROGRESS
05.08.20 CD PROGRESS SET
05.28.20 CD PROGRESS SET

09.01.20 CONSTRUCTION PROGRESS
09.15.20 ICC SUBMISSION

01.15.21 ISSUED FOR BID

06.30.20 CD REVIEW SET

Project Title

Bedford Fire Headquarters

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Drawing Title

FIRE ALARM SECOND FLOOR PLAN (ALTERNATE)

Project No.

Date

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