

PROJECT DESCRIPTION

1. THE INTENT OF THIS PROJECT IS TO UPGRADE EXISTING HVAC SYSTEMS IN THE BUILDING. THIS INCLUDES, BUT IS NOT LIMITED TO, THE FOLLOWING

- RIGGING OF NEW EQUIPMENT ONTO ROOF OF
- NEW STRUCTURAL STEEL DUNNAGE (REFER TO STRUCTURAL PLANS)
- NEW GALVANIZED SHEET METAL DUCTWORK WHERE INDICATED
- NEW DUCT MOUNTED STEAM COIL WHERE INDICATED
- AIR TESTING AND BALANCING NEW DDC CONTROLS FOR ALL EQUIPMENT.
 EQUIPMENT STARTUP AND TESTING BY FACTORY AUTHORIZED REPRESENTATIVES.
- CLOSEOUT PACKAGE INCLUDING CUT SHEETS, AS BUILT DRAWINGS AND WARRANTY INFORMATION. OWNER TRAINING ON NEW EQUIPMENT AND CONTROLS.

2. IN ADDITION TO EQUIPMENT SUBMITTALS CONTRACTOR SHALL ISSUE A 3/8" SCALE PIPING SHOP DRAWING TO ENGINEER FOR REVIEW AND APPROVAL PRIOR TO COMMENCEMENT OF WORK.

3. CONTRACTOR SHALL NOTE THAT EXISTING BAS HARDWARE IS MANUFACTURED BY ANDOVER. CONTRACTOR SHALL PROVIDE ALLOWANCE FOR HVAC CONTROLS AS INDICATED IN FRONT END SPECIFICATIONS.

ATC CONTRACTOR SHALL FURNISH AND INSTALL ALL HARDWARE AND WIRING REQUIRED FOR CONTROL AND MONITORING OF NEW HVAC EQUIPMENT. ATC CONTRACTOR SHALL DO ALL PROGRAMMING, BUILD ALL GRAPHICS FOR NEW EQUIPMENT AND UPDATE THERMAL FLOOR PLANS FOR NEW TEMPERATURE ZONES. ESTABLISH OCCUPANCY SCHEDULES WITH OWNER AND ROUTING OF ALARMS.

REFER TO CONTROLS DIAGRAM (SHEET M-102) FOR ADDITIONAL INFORMATION.

PROJECT NOTES:

1. ALL BIDDERS SHALL VISIT PROJECT SITE TO THOROUGHLY FAMILIARIZE THEMSELVES WITH EXISTING CONDITIONS. CLAIMS FOR EXTRA PAYMENTS FOR WORK, WHICH COULD HAVE BEEN IDENTIFIED VIA CAREFUL SITE INSPECTION, WILL NOT BE ACKNOWLEDGED.

2. PRIOR TO COMMENCEMENT OF WORK, CONTRACTOR SHALL PREPARE EQUIPMENT SUBMITTALS PER SPECIFICATIONS AND SUBMIT TO DESIGN ENGINEER FOR REVIEW/APPROVAL.

3. UPON COMPLETION OF WORK, CONTRACTOR SHALL SUBMIT AS-BUILTS DRAWINGS IN ACCORDANCE WITH SPECIFICATIONS.

4. PRIOR TO CLOSEOUT, CONTRACTOR SHALL SUBMIT OPERATION AND MAINTENANCE MANUAL TO ENGINEER FOR APPROVAL. FOLLOWING APPROVAL, CONTRACTOR SHALL DELIVER (1) HARD COPY AND (1) DIGITAL COPY ON THUMB DRIVE TO OWNER.

В П шО н О ч LICENSE EXP. DATE: 03-31-2026 S.E.D. CONTROL NUMBER: GREENVILLE ELEMENTARY SCHOOL 66-04-06-03-0-008-021

01-10-2022 SED SUBMISSION
DATE ISSUED TO

30"x42"

AS NOTED

LFG

DRAWING NO.

GVES

M001

FILE NO. 24529.01

FILE: N:\Edgemont School District\Greenville Elementary\Cafeteria Reno\ACAD\Mechanical\GV CAFE_M001_M300.dwg

COD CABLE-OPERATED DAMPER

(SD) DUCT SMOKE DETECTOR CO2 CARBON DIOXIDE SENSOR

RAG RETURN AIR GRILLE

POINT OF CONNECTION, NEW WORK TO EXISTING

↑ SECTION LINE

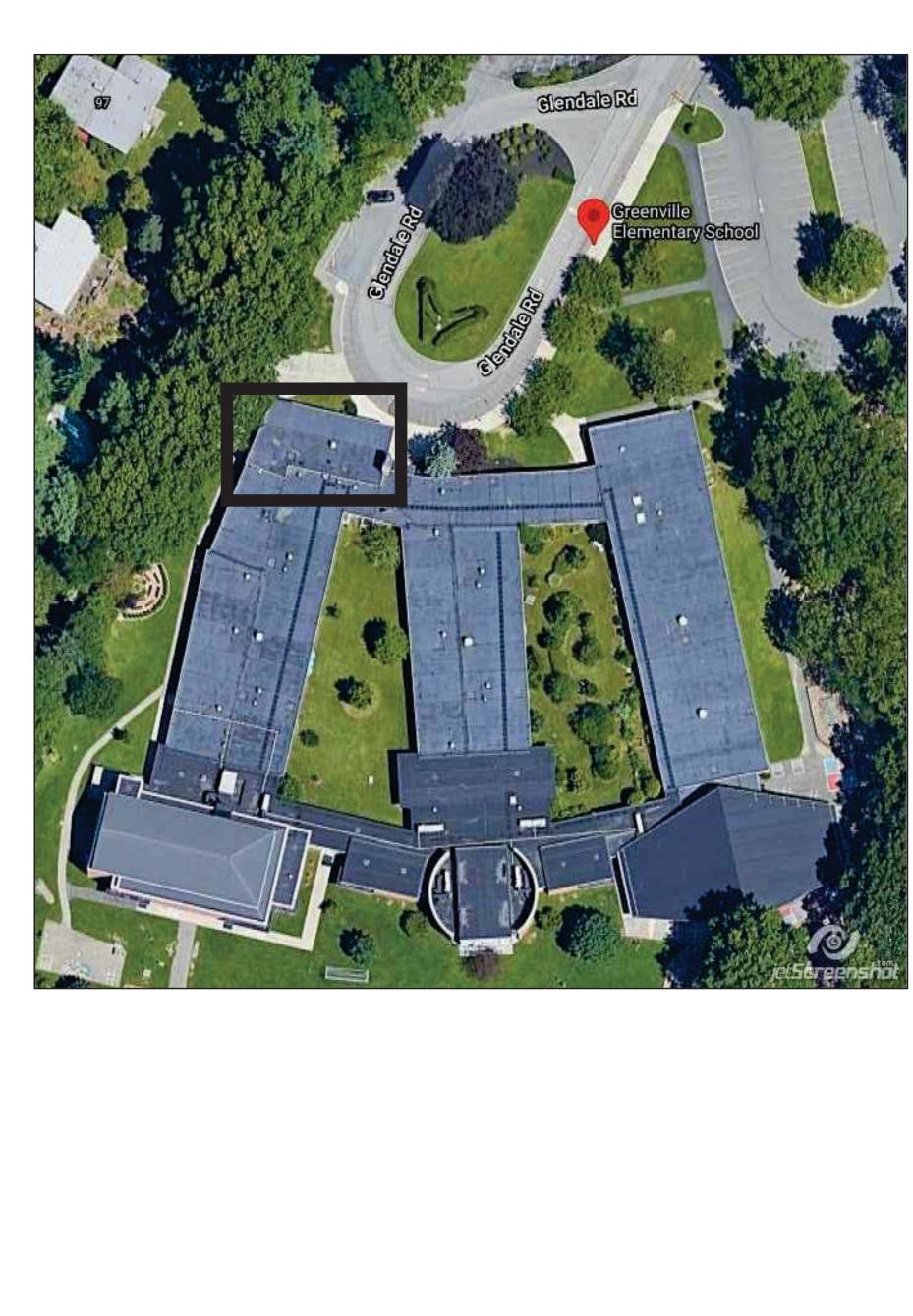
#X# DUCT DIMENSIONS (CLEAN INSIDE DIM.)

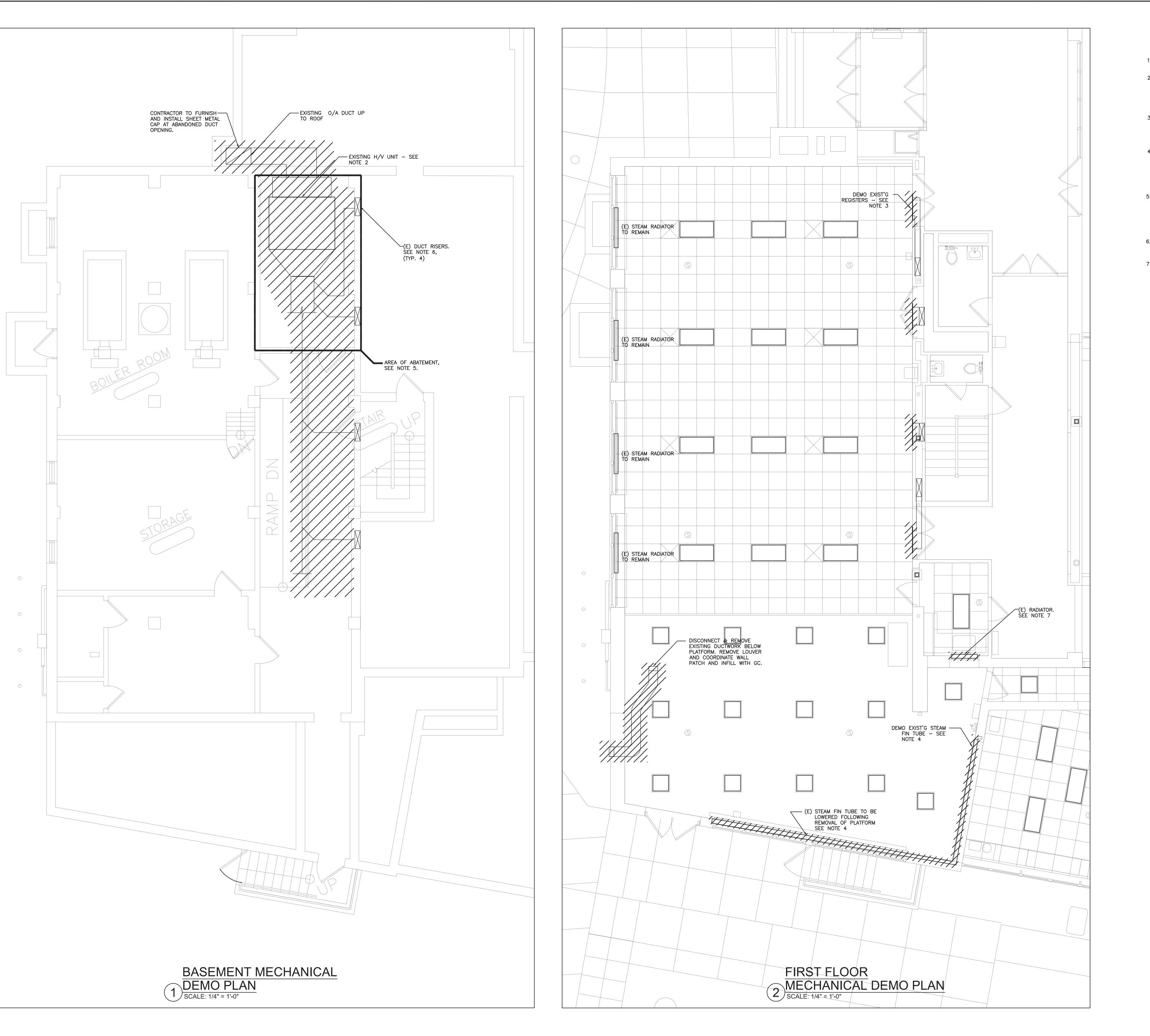
---- NEW LOW PRESS. STEAM PIPING

VOLUME DAMPER ACROSS DUCTWORK

- NEW LOW PRESS. CONDENSATE PIPING

HP HEAT PUMP (T) THERMOSTAT





NOTES:

- REFER TO WRITTEN (BOOK) SPECS FOR ADDITIONAL INFORMATION.
- 2. DISCONNECT AND REMOVE EXISTING H/V UNIT AND ALL ASSOCIATED (EXPOSED DUCTWORK, PIPING AND HANGERS. CUT AND CAP STEAM AND CONDENSATE PIPING BACK TO MAINS. COORDINATE WITH ELECTRICIAN TO REMOVE POWER AND CONTROL WIRING.
- 3. DISCONNECT EXISTING HIGH SIDEWALL SUPPLY REGISTERS. DUCTWORK BURIED INSIDE WALLS SHALL BE ABANDONED. REFER TO ARCHITECTURAL PLANS AND COORDINATE WITH GC FOR PATCHING OF WALLS.
- 4. DEMO SECTION OF STEAM FIN TUBE SHOWN ON PLANS. RELOCATE STEAM CONDENSATE PIPE PENETRATION AND F&T TRAP BELOW FLOOR AS REQUIRED TO REFEED RELOCATED FIN TUBE TO REMAIN. FURNISH NEW INSULATED & LABELED STEAM PIPING BELOW FLOOR.
- 5. CONTRACTOR SHALL NOTE THAT EXISTING PIPE AND DUCT INSULATION HAS TESTED POSITIVE AS CONTAINING ASBESTOS. ABATEMENT TO BE PERFORMED BY OTHERS AND CONTRACTOR SHALL COORDINATE TIMING OF THIS WORK WITH NEW MECHANICAL WORK TO AVOID ANY CONFLICTS.
- CONTRACTOR SHALL DICSONNECT ALL DUCTWORK SHOWN BUT NOT ABANDON VERTICAL RISER IN PLACE.
- CONTRACTOR SHALL DISCONNECT AND REMOVE EXISTING STEAM RADIATOR. CUT AND CAP STEAM AND CONDENSATE PIPING BELOW FLOOR.

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FACILITIES
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252 East Avenue
Norwalk, CT 06855

LICENSE EXP. DATE: 03-31-2026

S.E.D. CONTROL NUMBER:

GREENVILLE ELEMENTARY SCHOOL
66-04-06-03-0-008-021

TERIA RENOVATION

NG TITLE

SEMENT AND FIRST FLOOR

CHANICAL DEMO PLANS

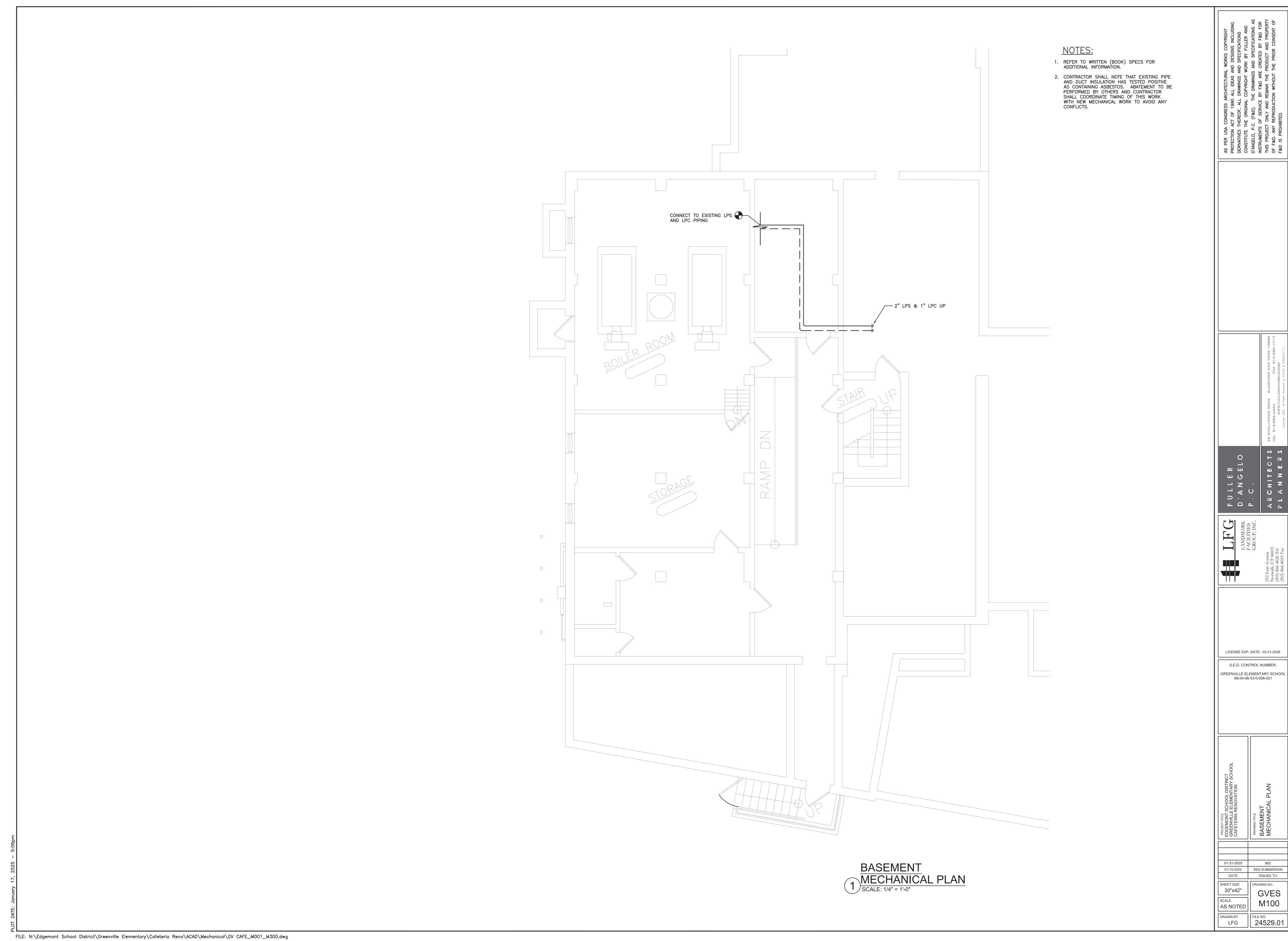
01-31-2025 BID
01-10-2022 SED SUBMISSION
DATE ISSUED TO

SHEET SIZE
30"x42"

DRAWING NO.

GVES

AS NOTED | IVID TOO |
DRAWN BY LFG | 24529.01





NOTES:

- REFER TO WRITTEN (BOOK) SPECS FOR ADDITIONAL INFORMATION.
- 2. DUCTWORK SHALL BE INSTALLED TIGHT TO HUNG CEILING AS POSSIBLE. MAKE TRANSITIONS TO INLET AND OUTLET OF STEAM COIL IN LEAST AMOUNT OF VERTICAL SPACE. EXPOSED SPIRAL DUCT SHALL BE FURNISHED WITH 'PAINT GRIP' FINISH SUITABLE FOR FIELD PAINTING BY GC. DUCTWORK SHALL BE DOUBLE WALL TYPE WITH INTEGRAL INSULATION.
- 3. CONTRACTOR SHALL COORDINATE INSTALLATION OF ALL WALL MOUNTED DEVICES (IE. THERMSTATS) WITH ARCHITECT & DESIGN ENGINEER PRIOR TO ROUGHING WIRING.
- 4. ALL BRANCH DUCTS SHALL BE EQUIPPED WITH VOLUME DAMPERS WHETHER INDICATED ON PLANS OR NOT. DUCTS ABOVE HARD CEILINGS (INCLUDING SOFFITS) SHALL BE CABLE-OPERATED DAMPERS.
- 5. ALL DUCTWORK WITHIN 15 FT OF FANS SHALL BE INTERNALLY LINED WITH 1" LINER FOR ACOUSTICS.

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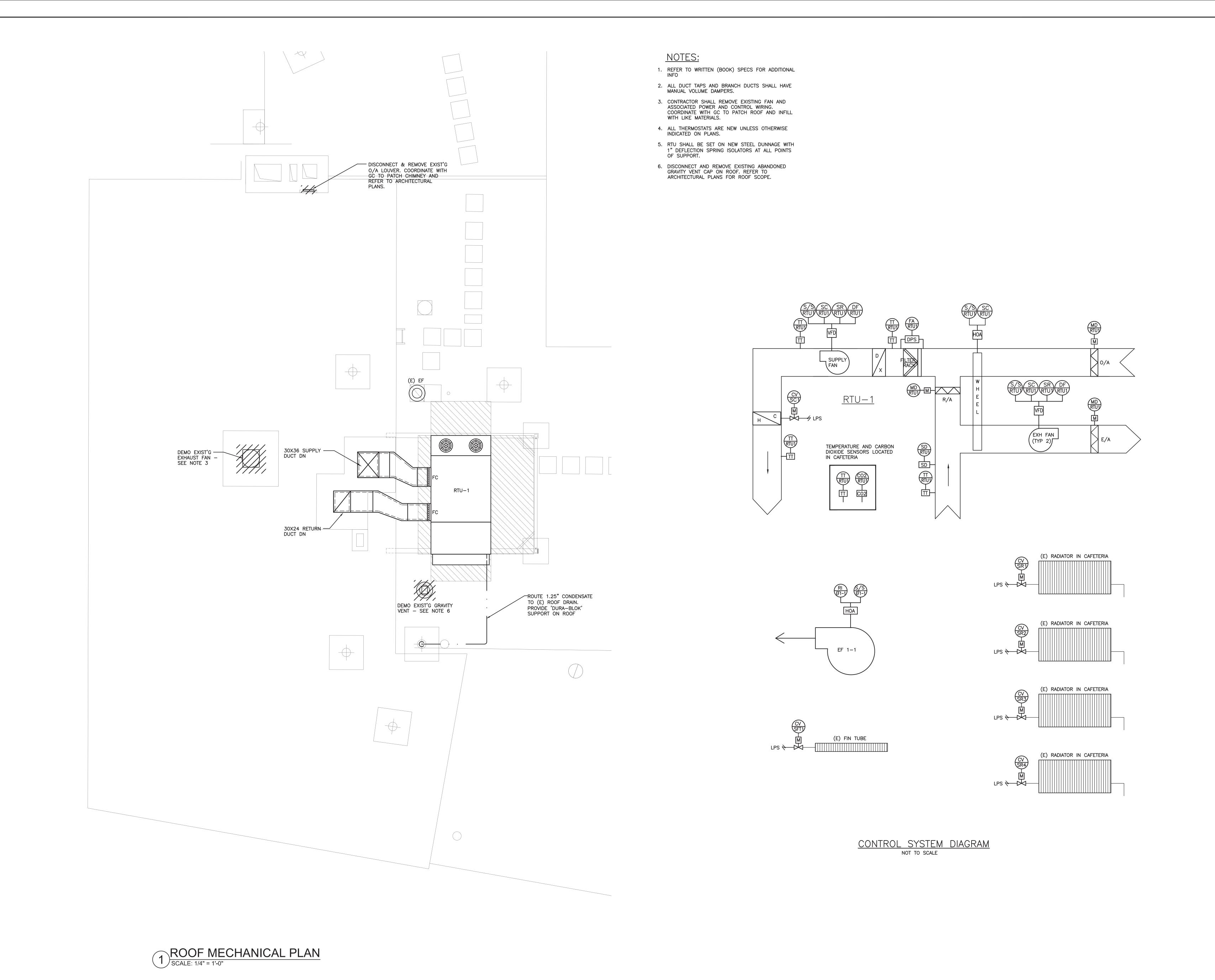
01-31-2025 01-10-2022 DATE SED SUBMISSION ISSUED TO 30"x42" AS NOTED

FILE NO. 24529.01

DRAWN BY

LFG

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LANDMARK
FACILITIES
GROUP, INC.
252 East Avenue
Norwall, CT 06855

LICENSE EXP. DATE: 03-31-2026

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GREENVILLE ELEMENTARY SCHOOL
66-04-06-03-0-008-021

PROJECT TITLE
EDGEMONT SCHOOL DISTRICT
GREENVILLE ELEMENTARY SCHOOL
CAFETERIA RENOVATION

DRAWING TITLE

ROOF MECHANICAL PLAN

DRAWN BY

LFG

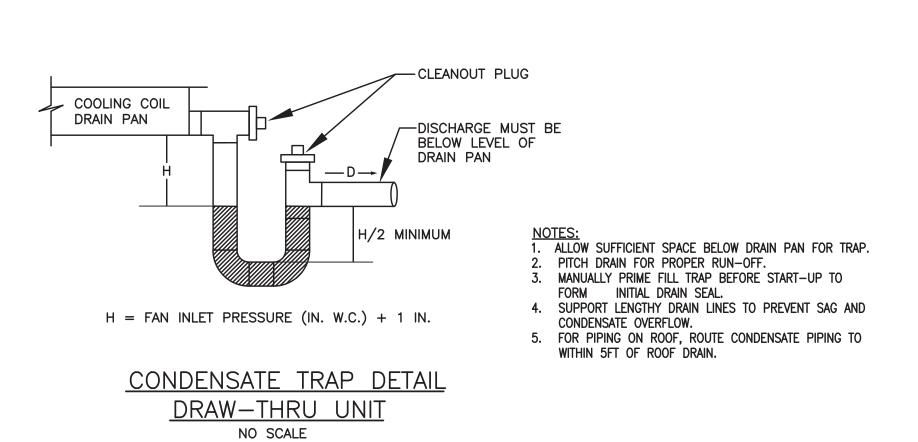
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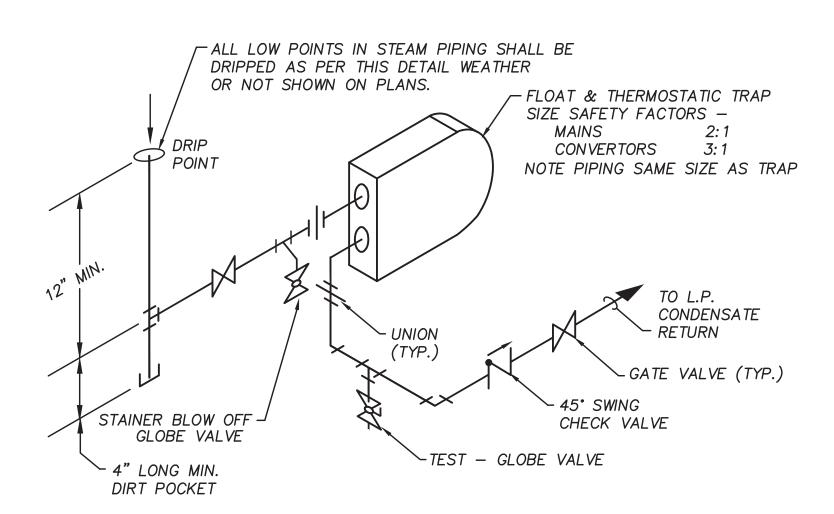
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30"x42"

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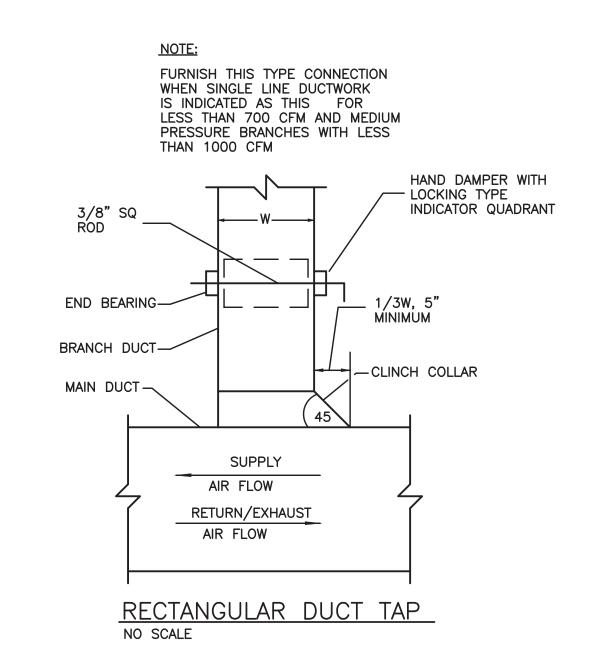
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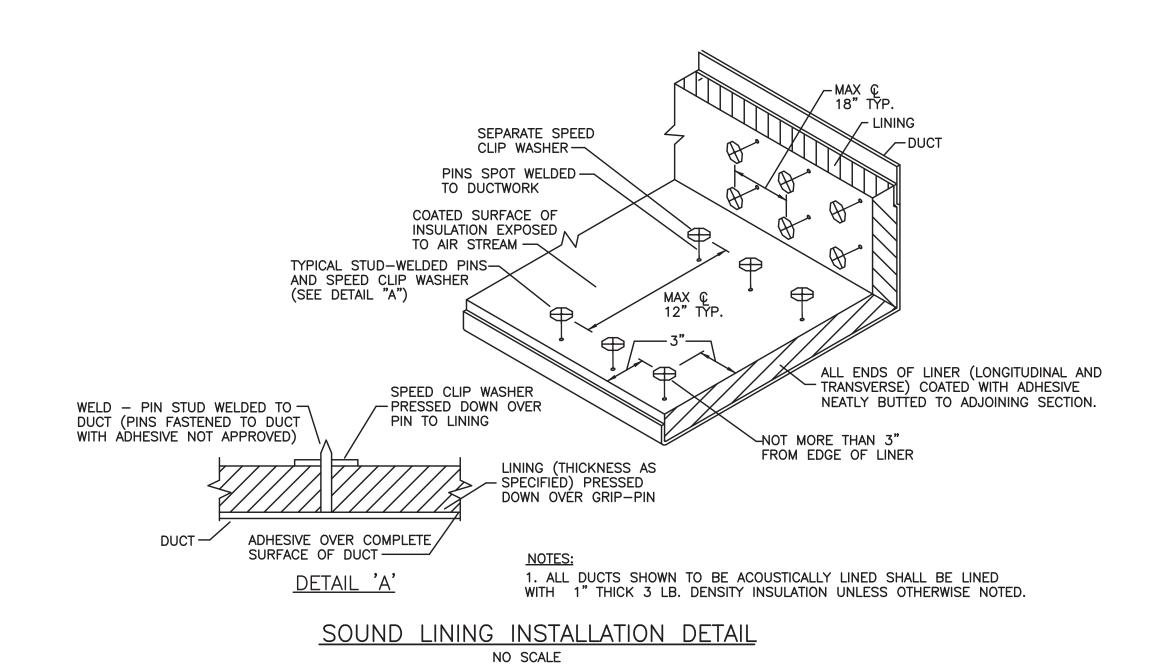
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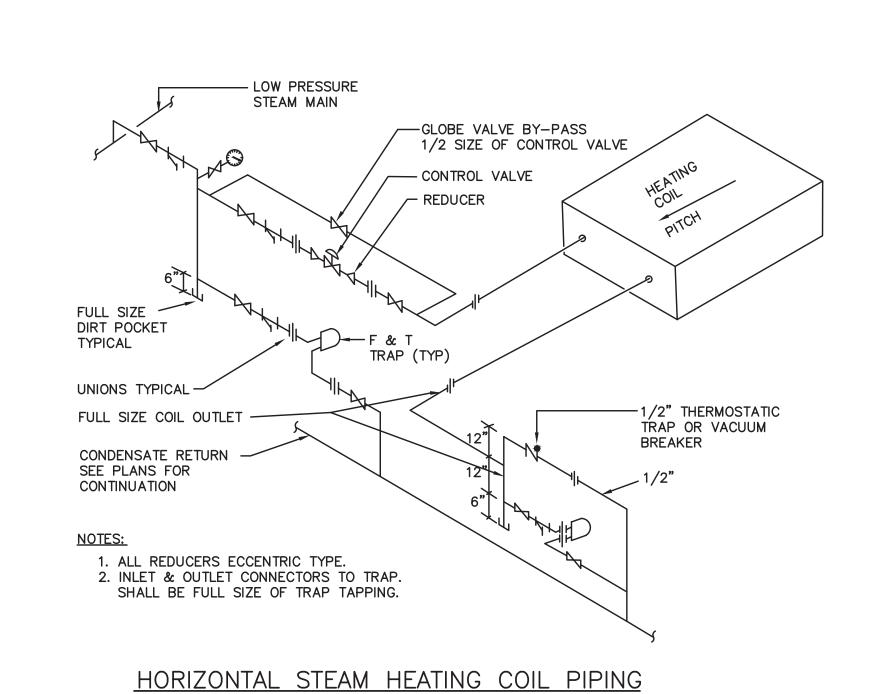


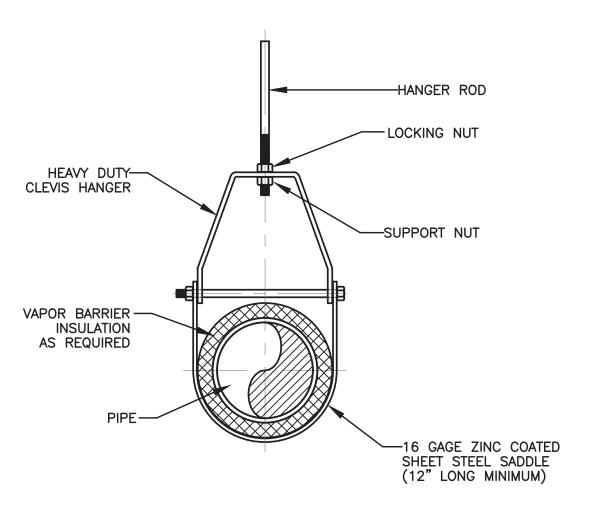


LOW PRESSURE STEAM MAIN DRIP DETAIL N.T.S.



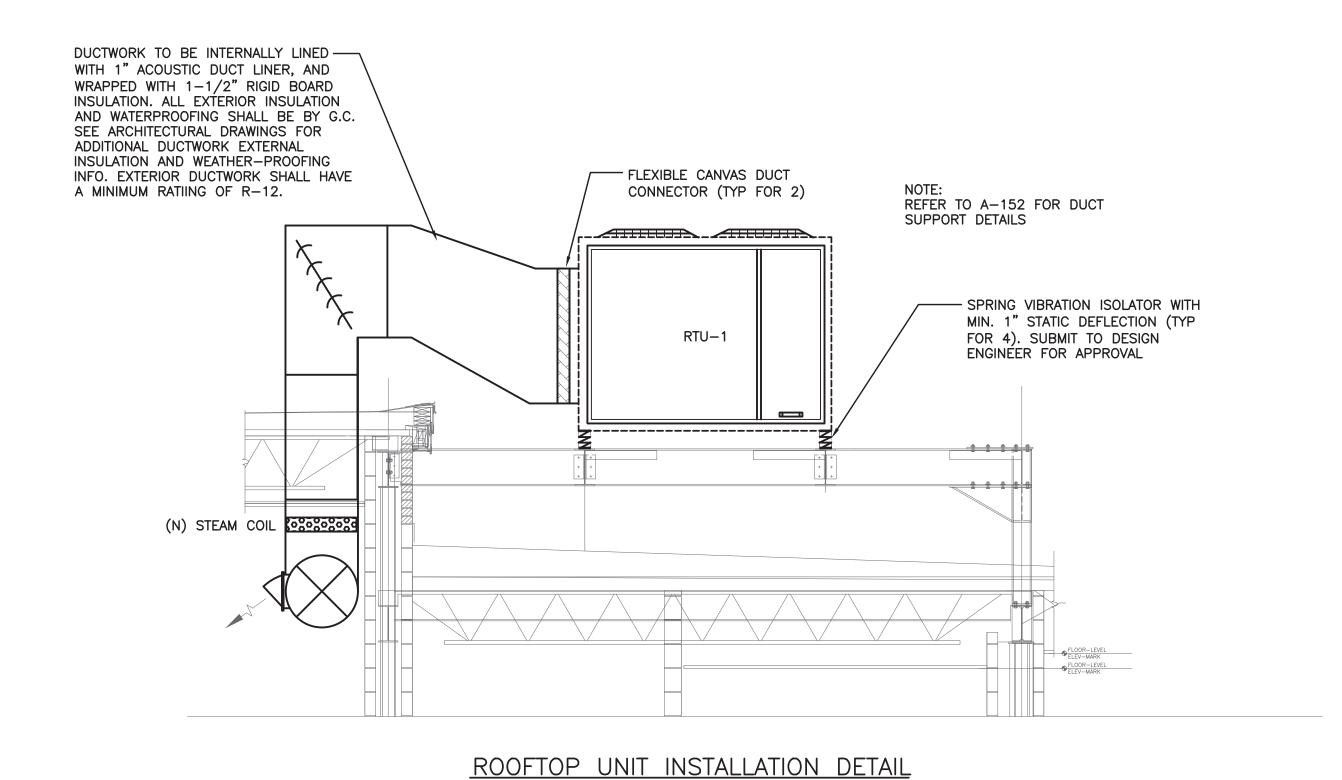


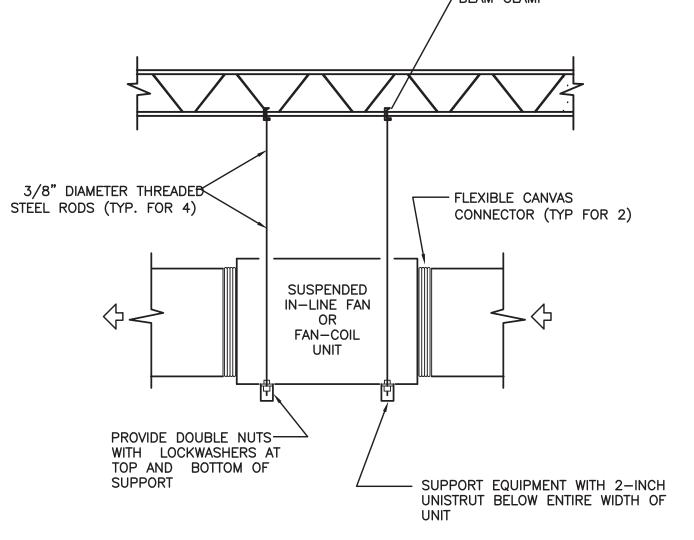




HANGER ROD SCHEDULE							
PIPE SIZE	ROD SIZE	PIPE SIZE	ROD SIZE				
UP TO 2"	3/8" DIA.	4" THRU 5"	5/8" DIA.				
2 1/2" THRU 3"	1/2" DIA.	6" THRU 12"	7/8" DIA.				

HORIZONTAL RUNS





INLINE FAN SUPPORT DETAIL TYPICAL FOR CEILING-MOUNTED FAN-COIL UNITS AND EXHAUST FANS NO SCALE

LICENSE EXP. DATE: 03-31-2026

S.E.D. CONTROL NUMBER:

GREENVILLE ELEMENTARY SCHOOL 66-04-06-03-0-008-021

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ISSUED TO

	NEW PACKAGED ROOFTOP UNIT WITH ENERGY RECOVERY SCHEDULE																			
TAG	MFG	MODEL NO.		W (CFM) OUTDOOR	MOTOR	ESP (IN. WC)	TOTAL (MBH)		COOLII ENT DB	AIR	LEAV DB		EER	OUTSIDE AIR TEMP	SUPPLY AIR TEMP (DB/WB)	VOLTAGE/PH	MCA	MOCP	WEIGHT (LBS)	NOTES
RTU-1	TRANE	THH180G3R0D	6065	2995	3.0	1.5	182.62	148.32	79.4	66.3	59.96	57.95	12.1	95.0	62.06/58.75	208/3	73.0	100.0	3141	1,2,3,4,5,6

. UNIT SHALL BE EQUIPPED WITH ENERGY RECOVERY WHEEL

- 2. PROVIDE WALL MOUNT CO2 SENSOR FOR DEMAND CONTROL VENTILATION.
 3. REFER TO RTU MOUNTING DETAIL FOR ADDITIONAL INFORMATION.
 4. UNIT SHALL BE FURNISHED WITH FACTORY BACNET CARD. COORDINATE WITH ATC VENDOR PRIOR TO ORDERING.
- MAINTAIN MANUFACTURER'S RECOMMENDED SERVICE CLEARANCE ON ALL SIDES.
 UNIT SHALL BE FURNISHED WITH FACTORY GFI RECEPTACLE FOR SERVICE.

TAG MFG MODEL TYPE CFM P.D. (IN. WC) CAPACITY (MBH) EAT DB LAT DB STEAM PRESS. (PSI) AIR VELOCITY (FPM) ROWS FPI AREA SERVED SC-1 CAPITOL COIL M8-3024-14A-HCA-R HORIZONTAL 6000 0.69 233.2 50.6 86.5 2.0 1200 1 14 CAFETERIA		STEAM HEATING COIL SCHEDULE									
SC-1 CAPITOL COIL M8-3024-14A-HCA-R HORIZONTAL 6000 0.69 233.2 50.6 86.5 2.0 1200 1 14 CAFETERIA	TAG	TAG MFG MODEL TYPE CFM P.D. CAPACITY EAT LAT STEAM PRESS. AIR VELOCITY ROWS FPI AREA SERVED									
	SC-1										

NOTES: 1. REFER TO STEAM COIL DETAIL FOR ADDITIONAL INFORMATION. 2. PROVIDE MOTORIZED MODULATING CONTROL VALVE AS MANUFACTRED BY BELIMO.

EXHAUST FAN SCHEDULE											
TAG	SERVICE	LOCATION	MFG	MODEL	AIR FLOW (CFM)	STATIC PRESS. (IN. H20)	RPM	HP	VOLTAGE	FLA	
EF-1	CAFETERIA	CEILING	соок	100SQN17DEC	700	0.40	1725	1/4	115-1-60	5.8	
NOTES:		·	_					·		·	

1. PROVIDE FACTORY BACKDRAFT DAMPER.
2. PROVIDE VARIABLE SPEED ECM MOTOR WITH SPEED CONTROL.

3. FAN SHALL BE TIED TO BAS AND SCHEDULED TO RUN ONLY DURING SERVING TIMES (IE. 11:30A-1P).

EXTERIOR LOUVE	R SCHEDULE					
TAG	EL-1					
PRODUCT TYPE	DRAINABLE LOUVER					
MANUFACTURER	AIROLITE					
MODEL	K6744					
AREA (IN. X IN.)	18 X 18					
DEPTH (IN.)	4					
FREE AREA (%)	56					
NOTES: 1. LOUVER SHALL BE FURNISHED WITH INSECT SCREEN. 2. PROVIDE KYNAR FINISH & REFER TO ARCHITECTURAL PLANS FOR COLOR.						

	VENTILATION AIR REQUIREMENTS											
Project:	Greenville	Elementary Cafeter	ria Renovation	State:	New York	Relevant Code:	IMC 2020					
HVAC ZONE	AREA SERVED	OCCUPANCY CLASSIFICATION		OCCUPANT LOAD Pz (Az)	REQUIRED VENTILATION Rp / Ra	ZONE AIR DIST. EFFECTIVENESS (Ez)	O.A/E.A. REQUIRED (CFM) Vbz	O.A/E.A. DESIGN (CFM)	REMARKS			
	[129] CAFETERIA	Cafeteria	-	161 (2547.94 SF)	7.5 CFM/PERSON 0.18 CFM/SF	0.8	2083	2085	1			
Zone 1	[C13.3] KITCHEN GALLEY	Kitchens	20	2 (71.18 SF)	7.5 CFWPERSON 0.12 CFWSF	0.8	29	30				
	CALCULATED OUTSIDE/MAKEUP AIR FOR SYSTEM TOTAL						2112	2115				

1. OCCUPANCY DETERMINED BY EXPECTED NUMBER OF SEATS IN THE SPACE

AIR OUTLET SCHEDULE							
TAG	MFG	MODEL	AIRFLOW (CFM)	SIZE	NOTES		
SR-1	TITUS	DL	SEE DWGS	20X12			
CD-1	TITUS	OMNI	SEE DWGS	24X24			
RAG-1	TITUS	MLR-39	SEE DWGS	5FT LONG	(3) 1" SLOTS		
EG-1	TITUS	350RL	SEE DWGS	24X12			

1. ALL AIR OUTLETS SHALL BE WHITE UNLESS OTHERWISE NOTED ON PLANS.

BRANCH DUCT	SCHEDULE
AIR FLOW (CFM)	ROUND DUCT SIZE (IN.)
0 -105	6
106-160	7
161-230	8
231-320	9
321-420	10
421-685	12
686-1025	14
1026-1450	16
1451-2000	18

1. WHETHER OR NOT INDICATED ON PLANS, CONTRACTOR SHALL FURNISH AND INSTALL MANUAL VOLUME DAMPERS IN ALL SUPPLY AND RETURN BRANCH DUCTS.

BRANCH DUCT	SCHEDULE
AIR FLOW (CFM)	ROUND DUCT SIZE (IN.)
0 -105	6
106-160	7
161-230	8
231-320	9
321-420	10
421-685	12
686-1025	14
1026-1450	16
1451-2000	18

FULLER D'ANGELO P.C. LICENSE EXP. DATE: 03-31-2026 S.E.D. CONTROL NUMBER: GREENVILLE ELEMENTARY SCHOOL 66-04-06-03-0-008-021 01-10-2022 SED SUBMISSION
DATE ISSUED TO SHEET SIZE DRAWING NO. 30"x42" **GVES** AS NOTED DRAWN BY LFG FILE NO. 24529.01