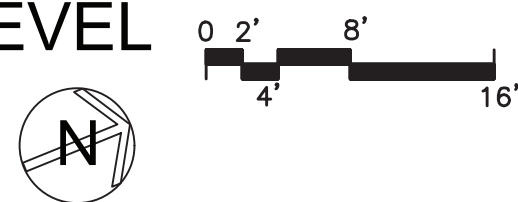




SEELY ELEMENTARY SCHOOL
MECHANICAL DEMO PLAN - LOWER LEVEL
1 SCALE: 3/32" = 1'-0"



NOTES:

- MECHANICAL CONTRACTOR IS RESPONSIBLE FOR REMOVING AND RE-INSTALLING CEILING TILES, CEILING GRID SUSPENSION SYSTEM, AND ALL CEILING-MOUNTED DEVICES (TYPICAL). COORDINATE CEILING SCOPE WITH ELECTRICAL, PLUMBING, AND CONTROLS TRADES.
- COORDINATE FLOOR AND WALL PATCHING WITH G.C. UPON COMPLETION OF DEMO WORK.

KEY NOTES:

- DISCONNECT EXISTING BRANCH DUCT, HANGERS, AND AIR OUTLET. CAP AND SEAL DUCT TRUNK AIRTIGHT.
- DEMO WORK TO INCLUDE EXISTING DUCTWORK RISER INCLUDING HANGERS.

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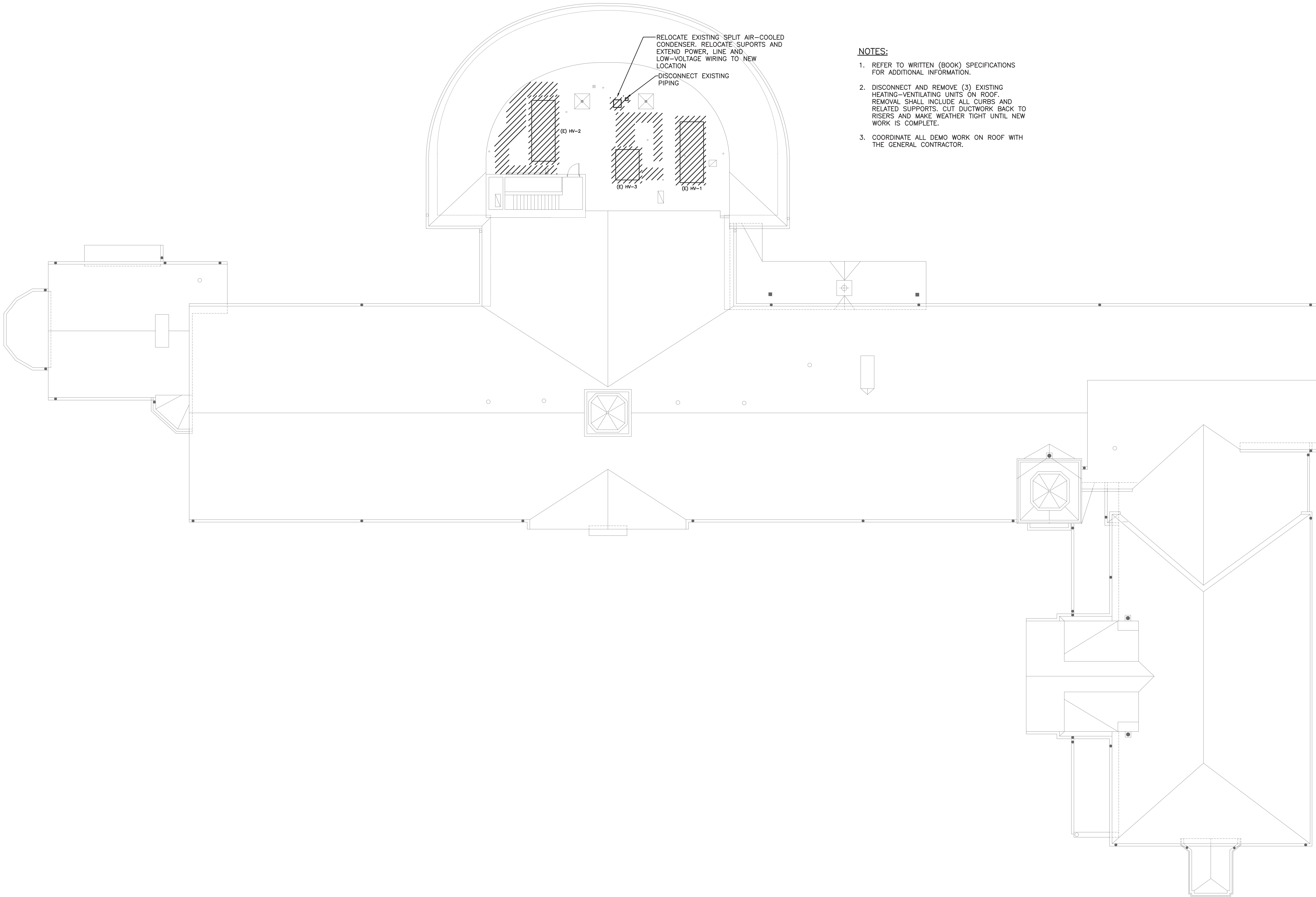
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S.E.D. CONTROL NUMBER:
GREENVILLE ELEMENTARY SCHOOL
66-04-06-03-0-009-021
SEELY PLACE ELEMENTARY SCHOOL
66-04-06-03-0-001-019

PROJECT
EDGEMONT SCHOOL DISTRICT
GREENVILLE ELEMENTARY SCHOOL
SEELY PLACE ELEMENTARY SCHOOL
PHASE 1 - HVAC & CAFETERIA
DRAWING TITLE
MECHANICAL DEMO PLAN
LOWER LEVEL

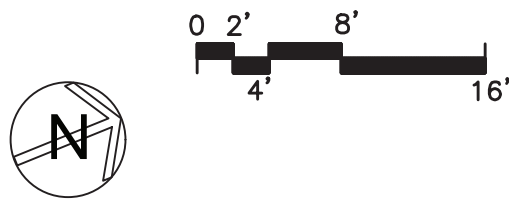
1-06-2023	BID
DATE	ISSUED TO
SHEET SIZE 30"x42"	DRAWING NO. SPES MD100
SCALE AS NOTED	FILE NO. 21434.01
DRAWN BY LFG	



NOTES:

1. REFER TO WRITTEN (BOOK) SPECIFICATIONS FOR ADDITIONAL INFORMATION.
2. DISCONNECT AND REMOVE (3) EXISTING HEATING-VENTILATING UNITS ON ROOF. REMOVAL SHALL INCLUDE ALL CURBS AND RELATED SUPPORTS. CUT DUCTWORK BACK TO RISERS AND MAKE WEATHER TIGHT UNTIL NEW WORK IS COMPLETE.
3. COORDINATE ALL DEMO WORK ON ROOF WITH THE GENERAL CONTRACTOR.

SEELY ELEMENTARY SCHOOL
MECHANICAL DEMO PLAN - ROOF
SCALE: 3/32" = 1'-0"



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S.E.D. CONTROL NUMBER:
GREENVILLE ELEMENTARY SCHOOL
66-04-06-03-0-001-021
SEELY PLACE ELEMENTARY SCHOOL
66-04-06-03-0-001-019

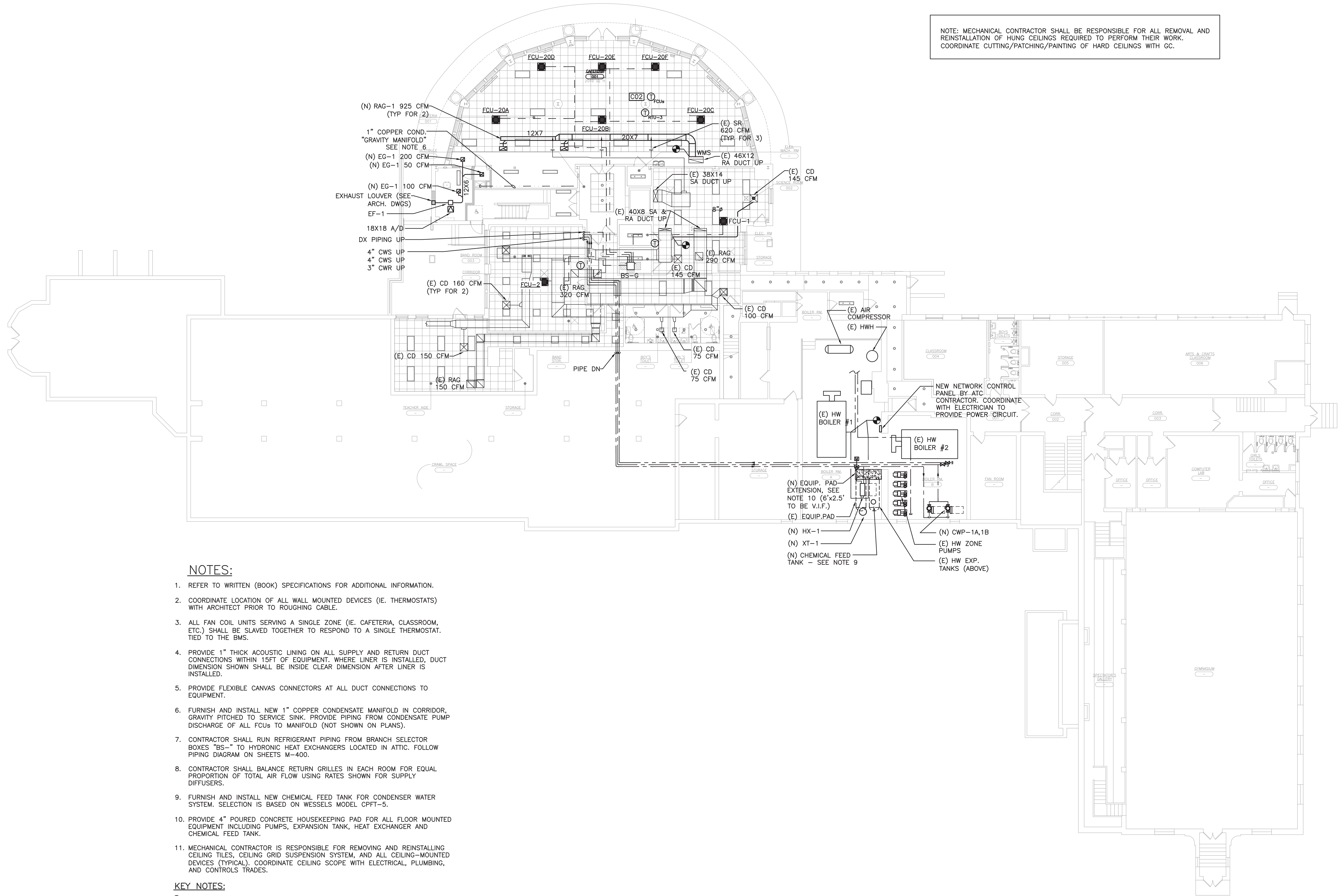
PROJECT:
EDGEMONT SCHOOL DISTRICT
GREENVILLE ELEMENTARY SCHOOL
SEELY PLACE ELEMENTARY SCHOOL
PHASE 1 - HVAC & CAFETERIA

DRAWING TITLE:
MECHANICAL DEMO PLAN - ROOF

1-06-2023	BID
DATE	ISSUED TO
SHEET SIZE 30"x42"	DRAWING NO. SPES MD101
SCALE AS NOTED	FILE NO. 21434.01
DRAWN BY LFG	

PLOT DATE: December 22, 2022 - 2:56pm

FILE: N:\Edgemont School District\Seely Place Elementary Phase 1\ACAD\Mechanical\SPES_M001_200_Addendum 2.dwg



NOTE: MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL REMOVAL AND REINSTALLATION OF HUNG CEILINGS REQUIRED TO PERFORM THEIR WORK. COORDINATE CUTTING/PATCHING/PAINTING OF HARD CEILINGS WITH GC.

NOTES:

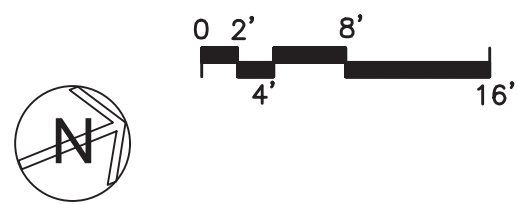
1. REFER TO WRITTEN (BOOK) SPECIFICATIONS FOR ADDITIONAL INFORMATION.
2. COORDINATE LOCATION OF ALL WALL MOUNTED DEVICES (IE. THERMOSTATS) WITH ARCHITECT PRIOR TO ROUGHING CABLE.
3. ALL FAN COIL UNITS SERVING A SINGLE ZONE (IE. CAFETERIA, CLASSROOM, ETC.) SHALL BE SLAVED TOGETHER TO RESPOND TO A SINGLE THERMOSTAT. TIED TO THE BMS.
4. PROVIDE 1" THICK ACOUSTIC LINING ON ALL SUPPLY AND RETURN DUCT CONNECTIONS WITHIN 15FT OF EQUIPMENT. WHERE LINER IS INSTALLED, DUCT DIMENSION SHOWN SHALL BE INSIDE CLEAR DIMENSION AFTER LINER IS INSTALLED.
5. PROVIDE FLEXIBLE CANVAS CONNECTORS AT ALL DUCT CONNECTIONS TO EQUIPMENT.
6. FURNISH AND INSTALL NEW 1" COPPER CONDENSATE MANIFOLD IN CORRIDOR, GRAVITY PITCHED TO SERVICE SINK. PROVIDE PIPING FROM CONDENSATE PUMP DISCHARGE OF ALL FCUs TO MANIFOLD (NOT SHOWN ON PLANS).
7. CONTRACTOR SHALL RUN REFRIGERANT PIPING FROM BRANCH SELECTOR BOXES "BS-" TO HYDRONIC HEAT EXCHANGERS LOCATED IN ATTIC. FOLLOW PIPING DIAGRAM ON SHEETS M-400.
8. CONTRACTOR SHALL BALANCE RETURN GRILLES IN EACH ROOM FOR EQUAL PROPORTION OF TOTAL AIR FLOW USING RATES SHOWN FOR SUPPLY DIFFUSERS.
9. FURNISH AND INSTALL NEW CHEMICAL FEED TANK FOR CONDENSER WATER SYSTEM. SELECTION IS BASED ON WESSELS MODEL CPFT-5.
10. PROVIDE 4" POURED CONCRETE HOUSEKEEPING PAD FOR ALL FLOOR MOUNTED EQUIPMENT INCLUDING PUMPS, EXPANSION TANK, HEAT EXCHANGER AND CHEMICAL FEED TANK.
11. MECHANICAL CONTRACTOR IS RESPONSIBLE FOR REMOVING AND REINSTALLING CEILING TILES, CEILING GRID SUSPENSION SYSTEM, AND ALL CEILING-MOUNTED DEVICES (TYPICAL). COORDINATE CEILING SCOPE WITH ELECTRICAL, PLUMBING, AND CONTROLS TRADES.

KEY NOTES:

- ① DISCONNECT EXISTING BRANCH DUCT, HANGERS, AND AIR OUTLET. CAP AND SEAL DUCT TRUNK AIRTIGHT.

SEELY ELEMENTARY SCHOOL
MECHANICAL PLAN - LOWER LEVEL

SCALE: 3/32" = 1'-0"



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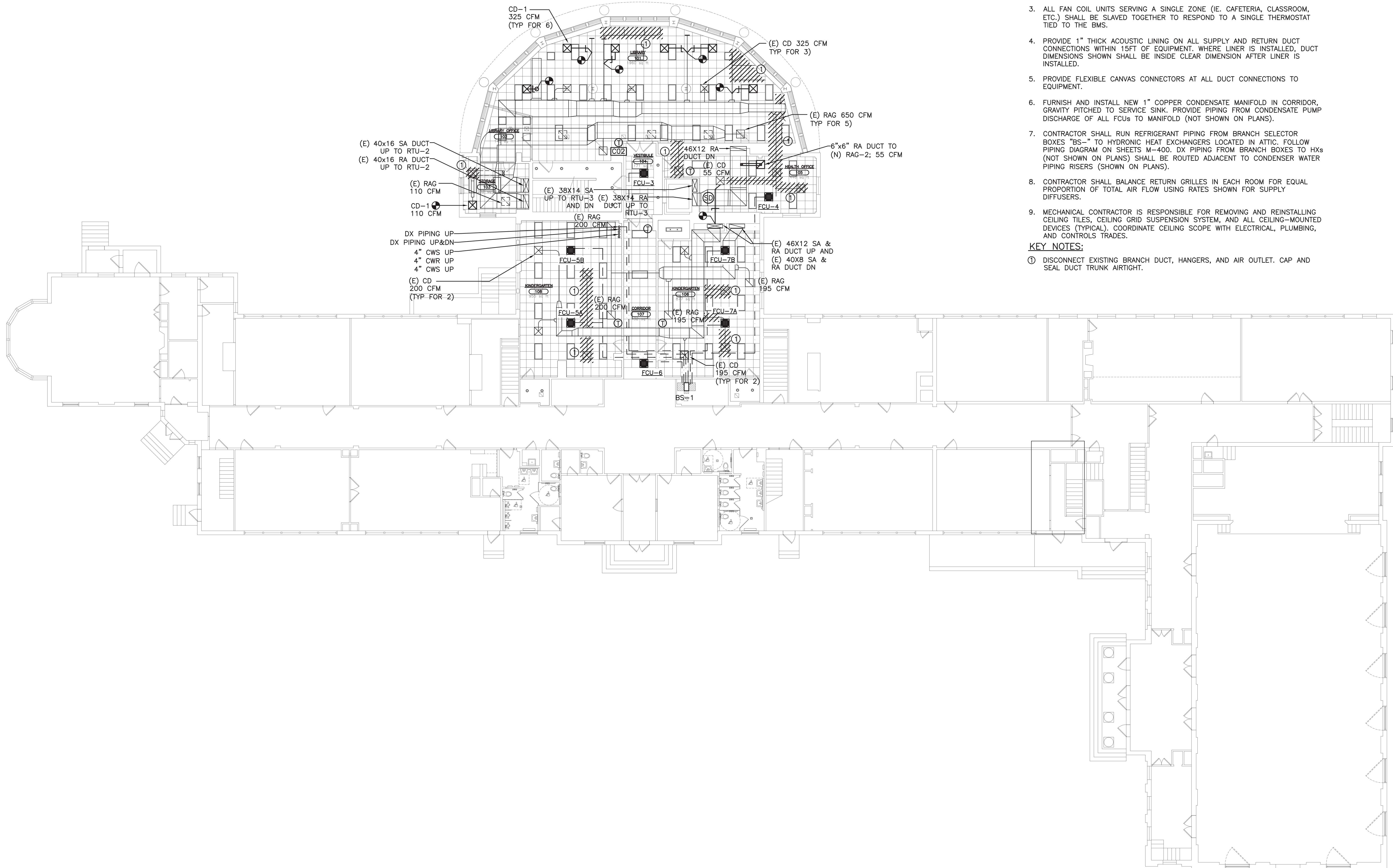
S.E.D. CONTROL NUMBER:
GREENVILLE ELEMENTARY SCHOOL
66-04-06-03-0-001-021
SEELY PLACE ELEMENTARY SCHOOL
66-04-06-03-0-001-019

PROJECT: SEELY PLACE ELEMENTARY SCHOOL
DRAWING TITLE: LOWER LEVEL MECHANICAL PLAN
DRAWING NO.: SPES M100
FILE NO.: 21434.01

DATE	ISSUED TO
6-17-2022	ADDENDUM #2
1-10-2022	BID
DATE	ISSUED TO
SHEET SIZE 30"x42"	DRAWING NO. SPES M100
SCALE AS NOTED	FILE NO. 21434.01
DRAWN BY LFG	

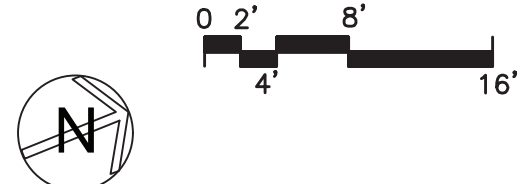
PLOT DATE: December 21, 2022 - 2:14pm

FILE: N:\Edgemont School District\Seely Place Elementary Phase 1\ACAD\Mechanical\SPES_M001_200_Addendum 2_JDB.dwg



SEELY ELEMENTARY SCHOOL
MECHANICAL DEMO AND NEW WORK PLAN - FIRST FLOOR

1 SCALE: 3/32" = 1'-0"



NOTES:

- REFER TO WRITTEN (BOOK) SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- COORDINATE LOCATION OF ALL WALL MOUNTED DEVICES (IE. THERMOSTATS) WITH ARCHITECT PRIOR TO ROUGHING CABLE.
- ALL FAN COIL UNITS SERVING A SINGLE ZONE (IE. CAFETERIA, CLASSROOM, ETC.) SHALL BE SLAVED TOGETHER TO RESPOND TO A SINGLE THERMOSTAT TIED TO THE BMS.
- PROVIDE 1" THICK ACOUSTIC LINING ON ALL SUPPLY AND RETURN DUCT CONNECTIONS WITHIN 15FT OF EQUIPMENT. WHERE LINER IS INSTALLED, DUCT DIMENSIONS SHOWN SHALL BE INSIDE CLEAR DIMENSION AFTER LINER IS INSTALLED.
- PROVIDE FLEXIBLE CANVAS CONNECTORS AT ALL DUCT CONNECTIONS TO EQUIPMENT.
- FURNISH AND INSTALL NEW 1" COPPER CONDENSATE MANIFOLD IN CORRIDOR, GRAVITY PITCHED TO SERVICE SINK. PROVIDE PIPING FROM CONDENSATE PUMP DISCHARGE OF ALL FCUs TO MANIFOLD (NOT SHOWN ON PLANS).
- CONTRACTOR SHALL RUN REFRIGERANT PIPING FROM BRANCH SELECTOR BOXES "BS-" TO HYDRONIC HEAT EXCHANGERS LOCATED IN ATTIC. FOLLOW PIPING DIAGRAM ON SHEETS M-400. DX PIPING FROM BRANCH BOXES TO HXs (NOT SHOWN ON PLANS) SHALL BE ROUTED ADJACENT TO CONDENSER WATER PIPING RISERS (SHOWN ON PLANS).
- CONTRACTOR SHALL BALANCE RETURN GRILLES IN EACH ROOM FOR EQUAL PROPORTION OF TOTAL AIR FLOW USING RATES SHOWN FOR SUPPLY DIFFUSERS.
- MECHANICAL CONTRACTOR IS RESPONSIBLE FOR REMOVING AND REINSTALLING CEILING TILES, CEILING GRID SUSPENSION SYSTEM, AND ALL CEILING-MOUNTED DEVICES (TYPICAL). COORDINATE CEILING SCOPE WITH ELECTRICAL, PLUMBING, AND CONTROLS TRADES.

KEY NOTES:

- ① DISCONNECT EXISTING BRANCH DUCT, HANGERS, AND AIR OUTLET. CAP AND SEAL DUCT TRUNK AIRTIGHT.

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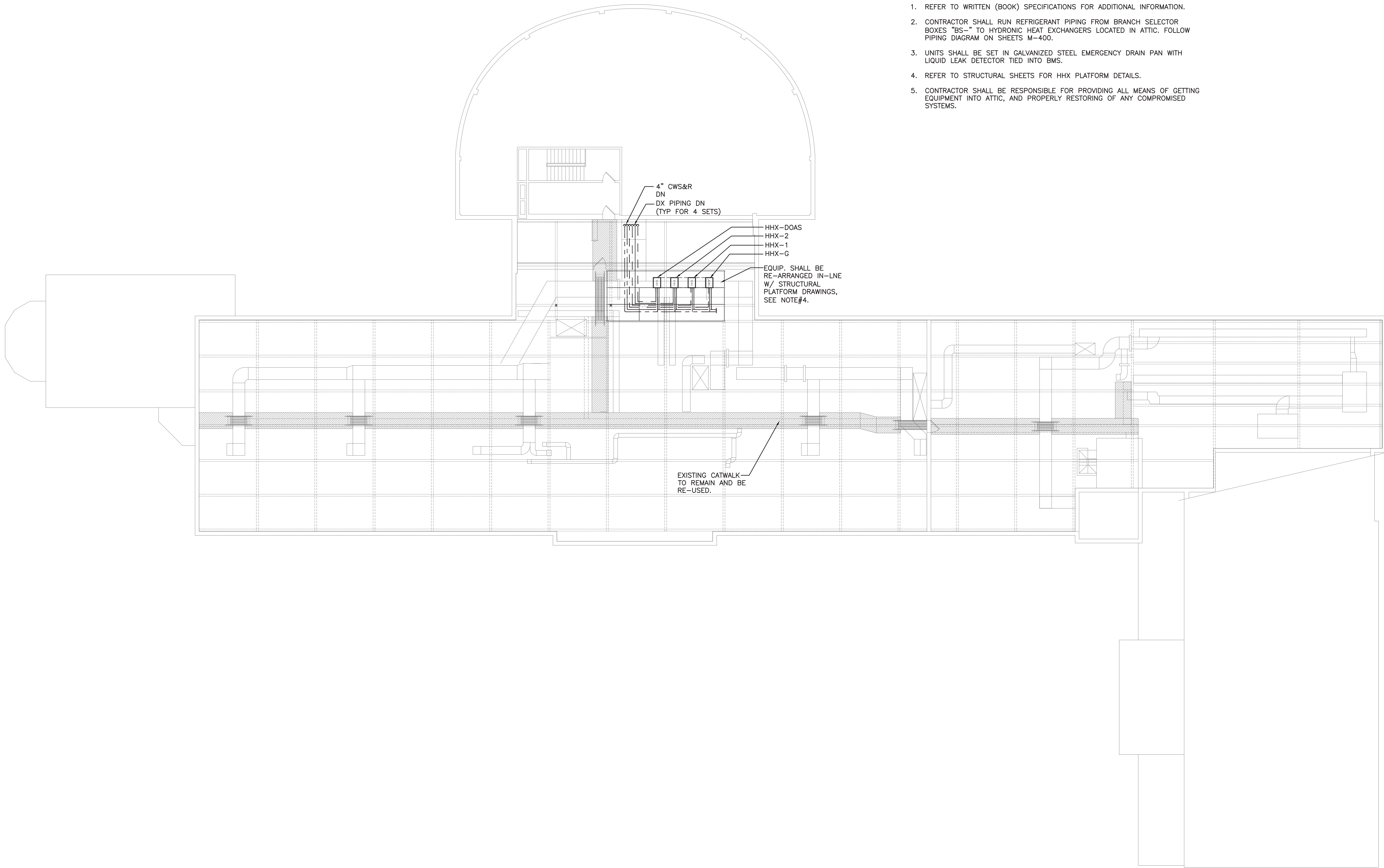
S.E.D. CONTROL NUMBER:
GREENVILLE ELEMENTARY SCHOOL
66-04-06-03-0-003-021
SEELY PLACE ELEMENTARY SCHOOL
66-04-06-03-0-001-019

PROJECT:
EDGEMONT SCHOOL DISTRICT
GREENVILLE ELEMENTARY SCHOOL
SEELY PLACE ELEMENTARY SCHOOL
PHASE 1 - HVAC & CAFETERIA
DRAWING TITLE:
FIRST FLOOR MECHANICAL PLAN

6-17-2022	ADDENDUM #2
1-10-2022	BID
DATE	ISSUED TO
SHEET SIZE: 30"x42"	DRAWING NO. SPES M101
SCALE: AS NOTED	FILE NO. 21434.01
DRAWN BY: LFG	

PLOT DATE: December 21, 2022 - 2:15pm

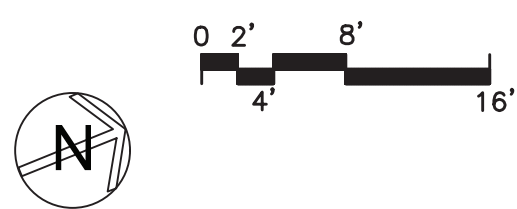
FILE: N:\Edgemont School District\Seely Place Elementary Phase 1\ACAD\Mechanical\SPES_M001_200_Addendum 2_JDB.dwg



NOTES:

1. REFER TO WRITTEN (BOOK) SPECIFICATIONS FOR ADDITIONAL INFORMATION.
2. CONTRACTOR SHALL RUN REFRIGERANT PIPING FROM BRANCH SELECTOR BOXES "BS-" TO HYDRONIC HEAT EXCHANGERS LOCATED IN ATTIC. FOLLOW PIPING DIAGRAM ON SHEETS M-400.
3. UNITS SHALL BE SET IN GALVANIZED STEEL EMERGENCY DRAIN PAN WITH LIQUID LEAK DETECTOR TIED INTO BMS.
4. REFER TO STRUCTURAL SHEETS FOR HHX PLATFORM DETAILS.
5. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL MEANS OF GETTING EQUIPMENT INTO ATTIC, AND PROPERLY RESTORING OF ANY COMPROMISED SYSTEMS.

SEELY ELEMENTARY SCHOOL
MECHANICAL PLAN - ATTIC
1 SCALE: 3/32" = 1'-0"



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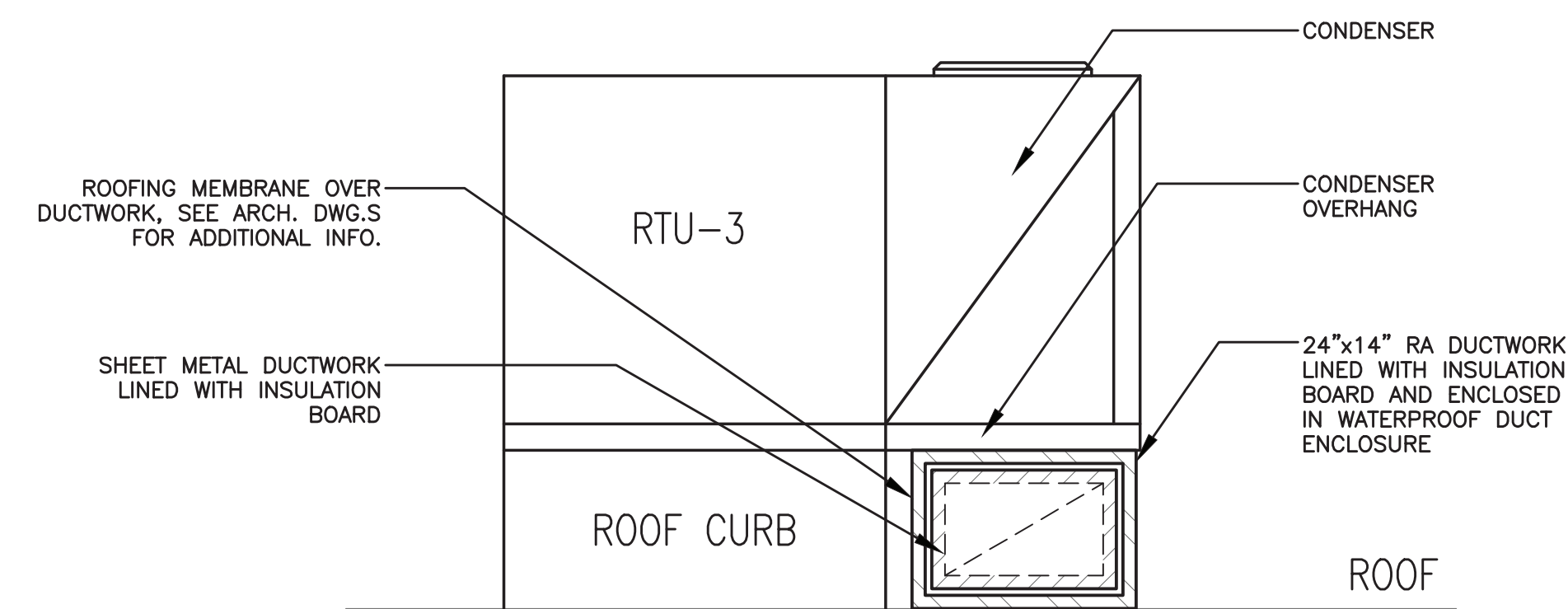
S.E.D. CONTROL NUMBER:
GREENVILLE ELEMENTARY SCHOOL
66-04-06-03-0-001-021
SEELY PLACE ELEMENTARY SCHOOL
66-04-06-03-0-001-019

PROJECT:
EDGEMONT SCHOOL DISTRICT
GREENVILLE ELEMENTARY SCHOOL
SEELY PLACE ELEMENTARY SCHOOL
PHASE 1 - HVAC & CATERIA
DRAWING TITLE:
ATTIC MECHANICAL PLAN

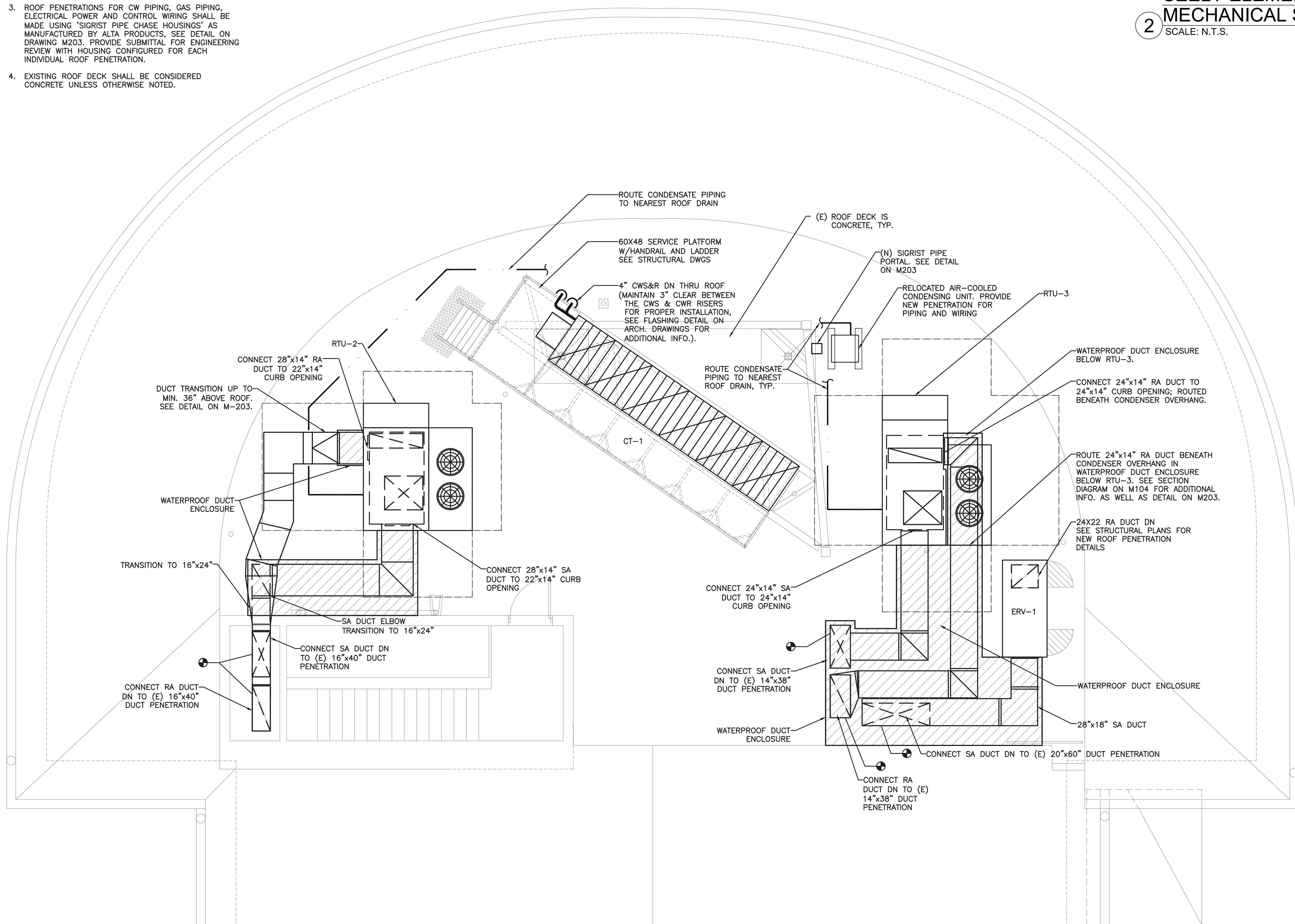
1-06-2023	BID
DATE	ISSUED TO
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SCALE: AS NOTED	M103
DRAWN BY: LFG	FILE NO. 21434.01

NOTES:

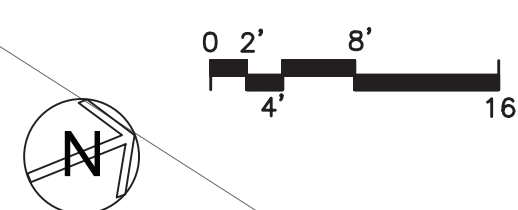
1. REFER TO WRITTEN (BOOK) SPECIFICATIONS FOR ADDITIONAL INFORMATION.
2. MAINTAIN MANUFACTURER'S RECOMMENDED SERVICE CLEARANCES TO ALL EQUIPMENT ON ROOF. DO NOT OBSTRUCT CLEARANCE WITH DUCTWORK OR OTHER OBJECTS.
3. ROOF PENETRATIONS FOR CW PIPING, GAS PIPING, ELECTRICAL POWER AND CONTROL WIRING SHALL BE MADE USING 'SIGRIST PIPE CHASE HOUSINGS' AS MANUFACTURED BY ALTA PRODUCTS. SEE DETAIL ON DRAWING M203. PROVIDE SUBMITTAL FOR ENGINEERING REVIEW WITH HOUSING CONFIGURED FOR EACH INDIVIDUAL ROOF PENETRATION.
4. EXISTING ROOF DECK SHALL BE CONSIDERED CONCRETE UNLESS OTHERWISE NOTED.



SEELY ELEMENTARY SCHOOL
MECHANICAL SECTION - DIAGRAM
SCALE: N.T.S.



SEELY ELEMENTARY SCHOOL
MECHANICAL PLAN - ROOF
SCALE: 1/4" = 1'-0"



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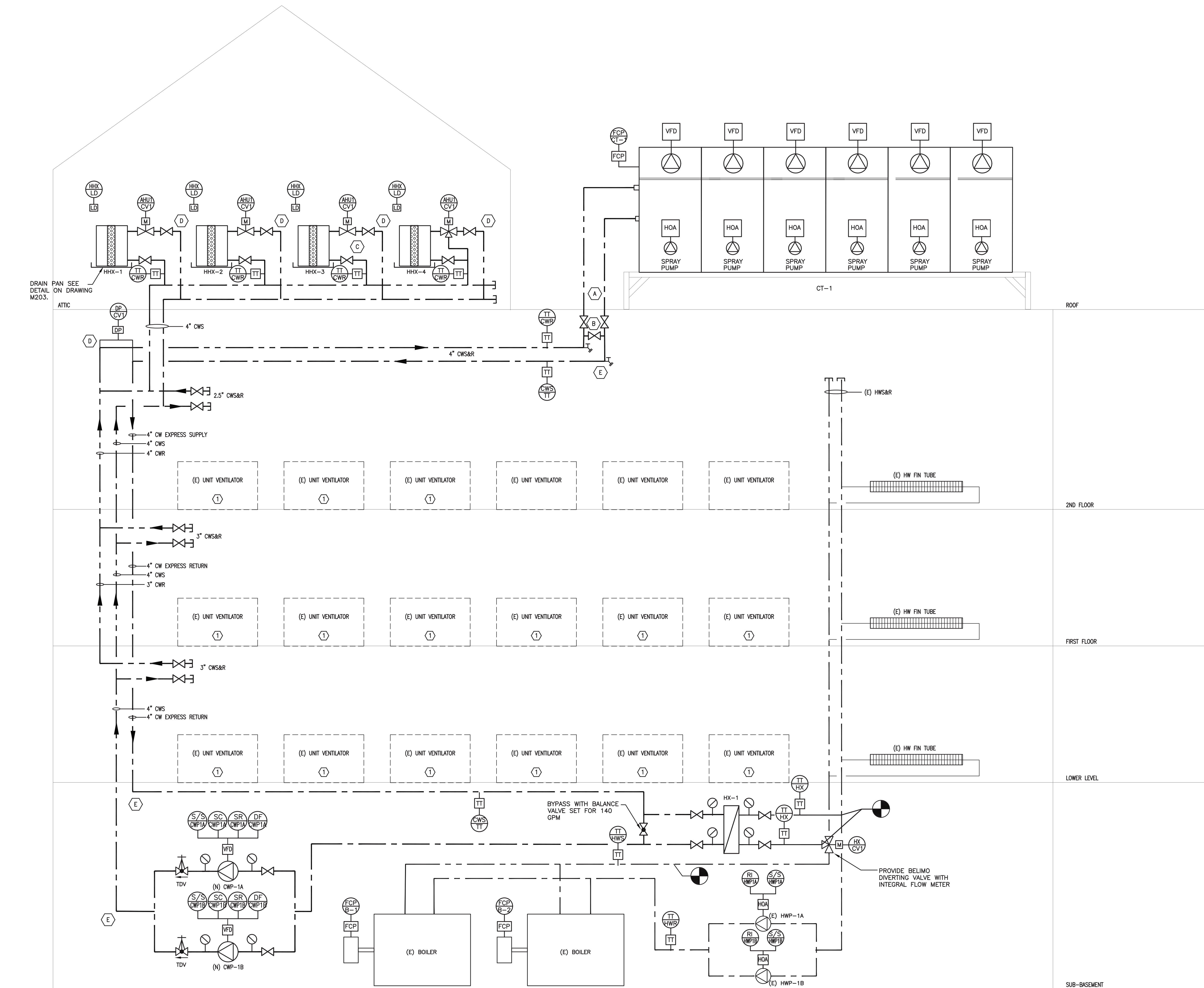
S.E.D. CONTROL NUMBER:
GREENVILLE ELEMENTARY SCHOOL
66-04-06-03-0-001-021
SEELY PLACE ELEMENTARY SCHOOL
66-04-06-03-0-001-019

PROJECT:
EDGEMONT SCHOOL DISTRICT
GREENVILLE ELEMENTARY SCHOOL
SEELY PLACE ELEMENTARY SCHOOL
PHASE 1 - HVAC & CAFETERIA
DRAWING TITLE:
ROOF MECHANICAL PLAN

6-17-2022	ADDENDUM #2
1-10-2022	BID
DATE	ISSUED TO
SHEET SIZE: 30"x42"	DRAWING NO. SPES M104
SCALE: AS NOTED	FILE NO. 21434.01
DRAWN BY: LFG	

PLOT DATE: December 21, 2022 - 2:20pm

FILE: N:\Edgemont School District\Seely Place Elementary Phase 1\ACAD\Mechanical\SPES_M001_200_Addendum 2_JDB.dwg



KEY NOTES:

- (A) CW PIPING SHALL TRANSITION FROM SCHED 40 STEEL TO POLYPROPYLENE DIRECTLY BELOW THE ROOF. ALL PIPING ABOVE ROOF LINE SHALL BE POLYPROPYLENE WITH HEAT FUSION JOINTS. PIPING SELECTION IS BASED ON AQUATHERM PP-R.
- (B) PROVIDE MANUAL BYPASS VALVE BELOW ROOF, DIRECTLY BELOW COOLING TOWER.
- (C) AT EACH HYDRONIC HEAT EXCHANGER PROVIDE (2) ISOLATION VALVES, (1) MOTORIZED CONTROL VALVE AND (1) AUTOMATIC BALANCE VALVE.
- (D) PROVIDE AUTOMATIC AIR VENTS AT TOP OF RISERS.
- (E) PROVIDE MANUAL DRAINS AT BOTTOM OF RISERS.

GENERAL CONTROL PANEL NOTE:

NETWORK CONTROL PANEL SHALL HAVE 200% CAPACITY TO OFFER SALABILITY IN-ORDER TO ACCOMMODATE FUTURE "PHASE-2" WORK.

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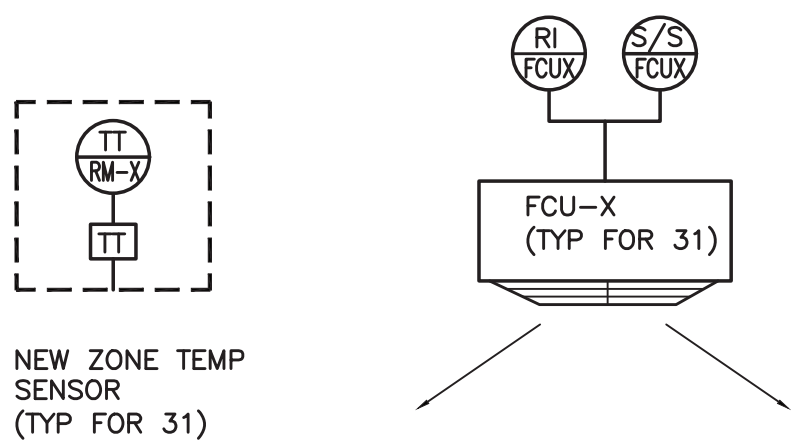
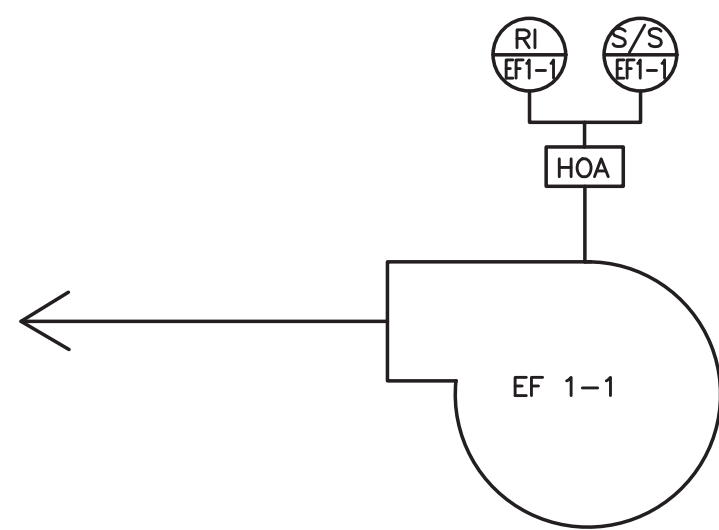
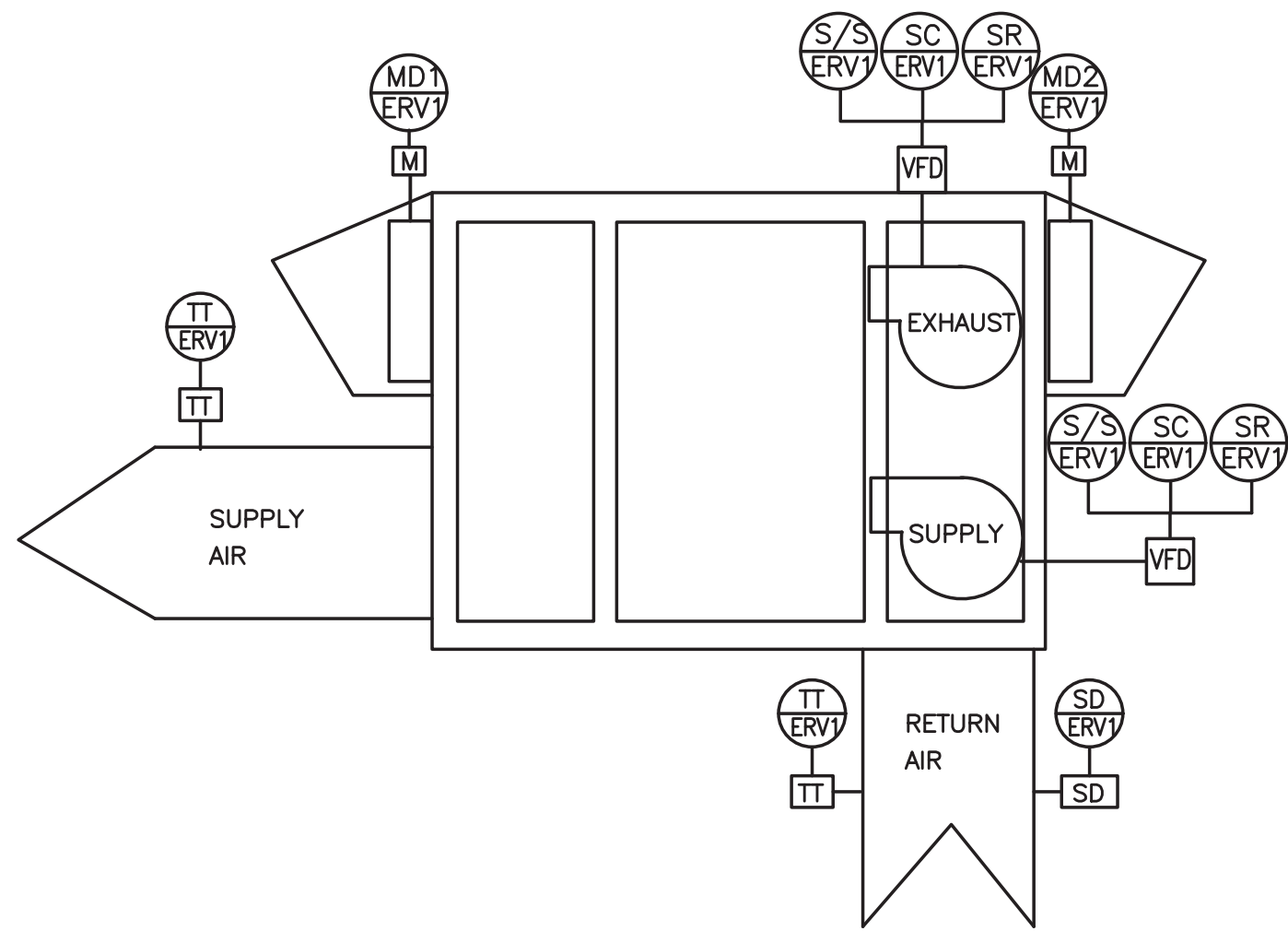
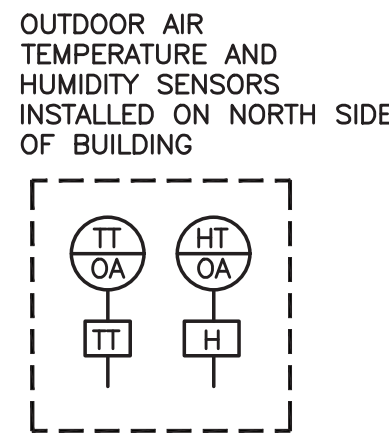
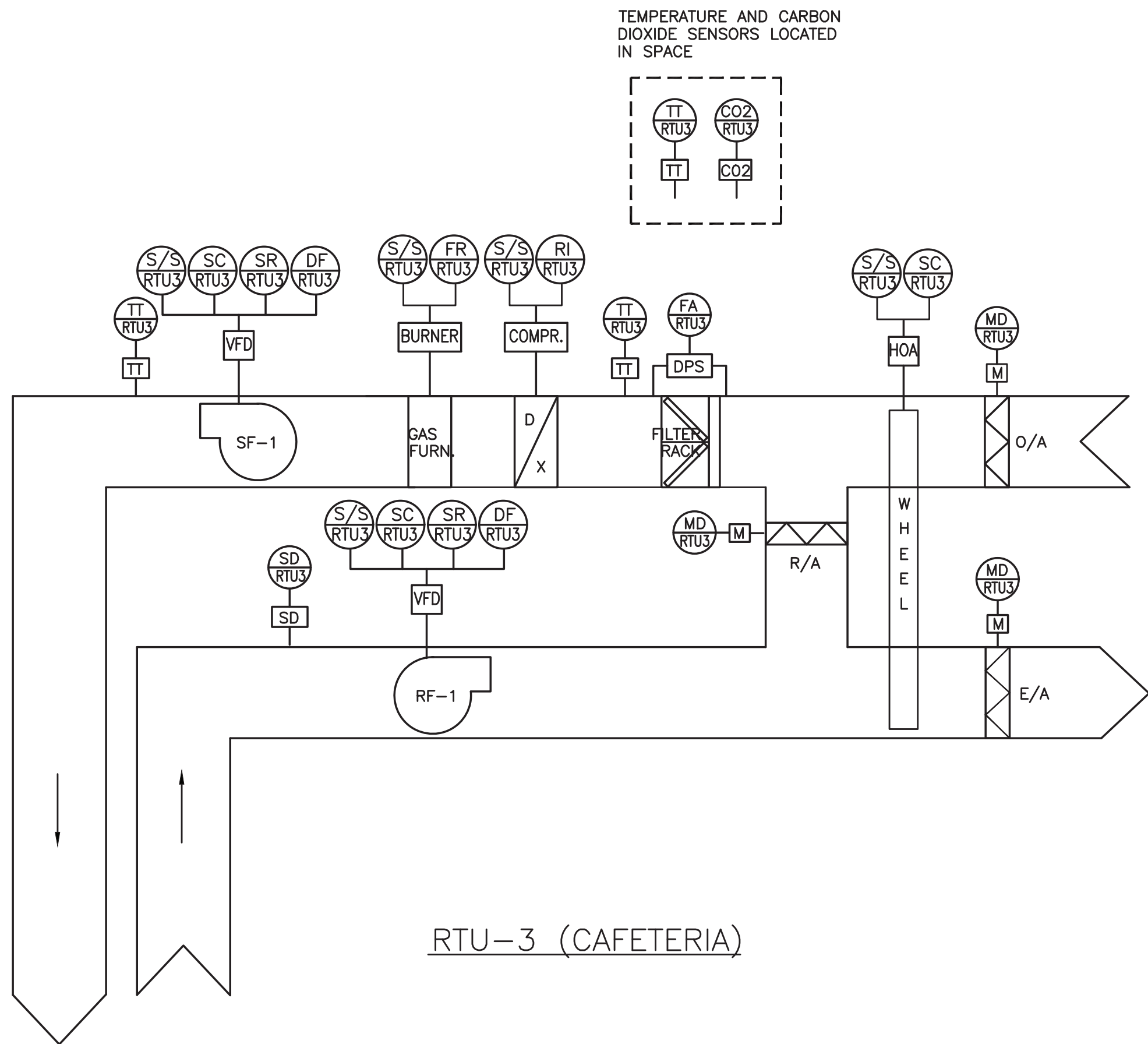
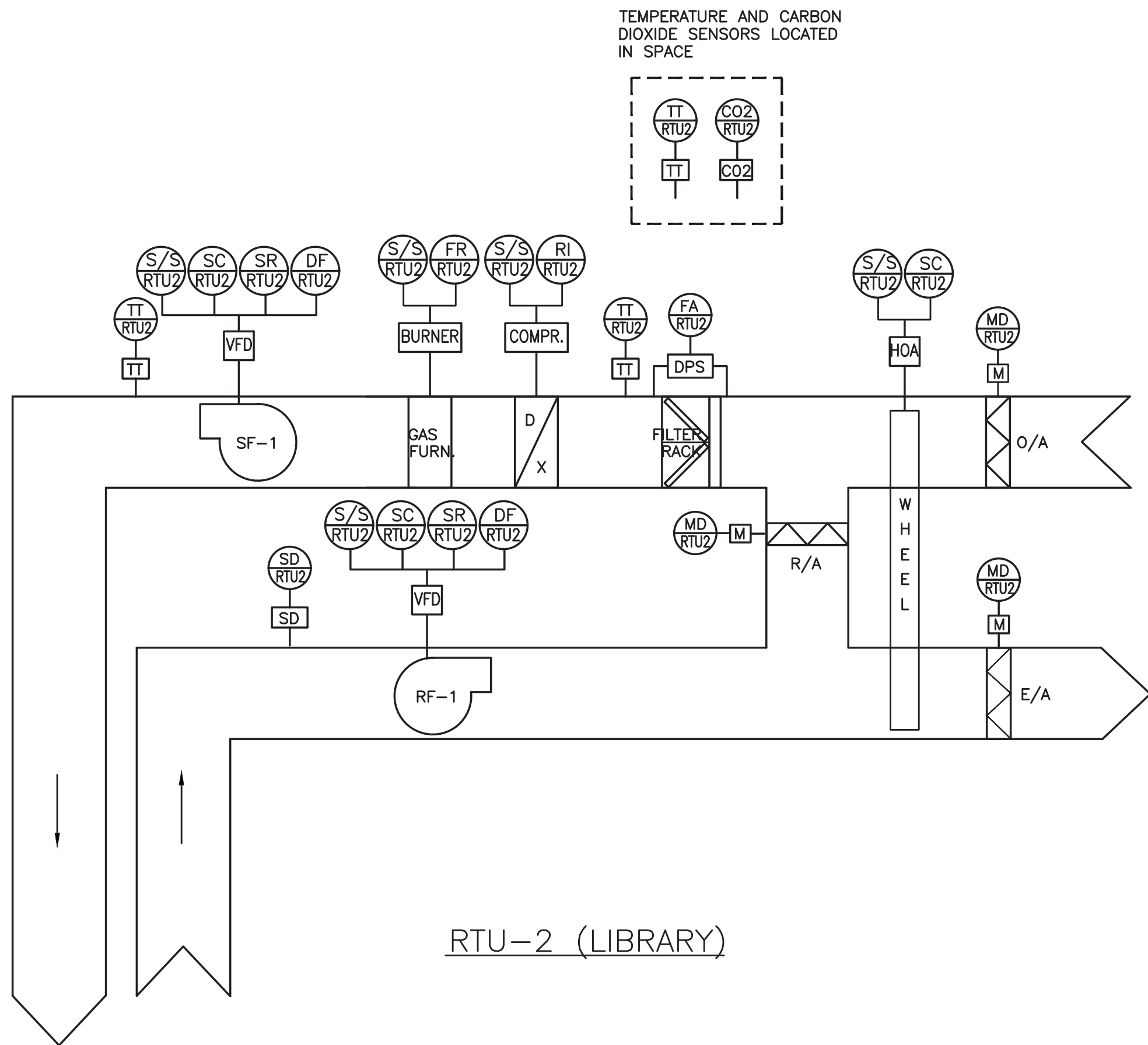
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S.E.D. CONTROL NUMBER:
GREENVILLE ELEMENTARY SCHOOL
66-04-06-03-0-001-021
SEELY PLACE ELEMENTARY SCHOOL
66-04-06-03-0-001-019

PROJECT:
EDGEMONT SCHOOL DISTRICT
GREENVILLE ELEMENTARY SCHOOL
SEELY PLACE ELEMENTARY SCHOOL
PHASE 1 - HVAC & CRETERIA
DRAWING TITLE
MECHANICAL PIPING & CONTROLS
DIAGRAM

1-06-2023	BID
DATE	ISSUED TO
SHEET SIZE 30"x42"	DRAWING NO. SPES M200
SCALE AS NOTED	FILE NO. 21434.01
DRAWN BY LFG	



HVAC EQUIPMENT CONTROL SCHEMATIC
NOT TO SCALE

NOTES

1. REFER TO SPECIFICATION SECTION 230933 FOR ADDITIONAL INFORMATION.
2. ALL POINTS SHOWN ON DIAGRAM SHALL BE MONITORED AND DISPLAYED AT GRAPHICAL USER INTERFACE (GUI). ALL POINTS SHALL BE CONFIGURED TO GENERATE ALARM AT USER INTERFACE WHEN VALUE IS OUTSIDE RANGE OR IF FAN, DAMPER, ETC FAILS TO RESPOND.
3. IF COMPRESSOR STATUS IS AVAILABLE AT FACTORY CONTROLLER, THIS INFO SHALL BE MONITORED AND DISPLAYED AT GUI.

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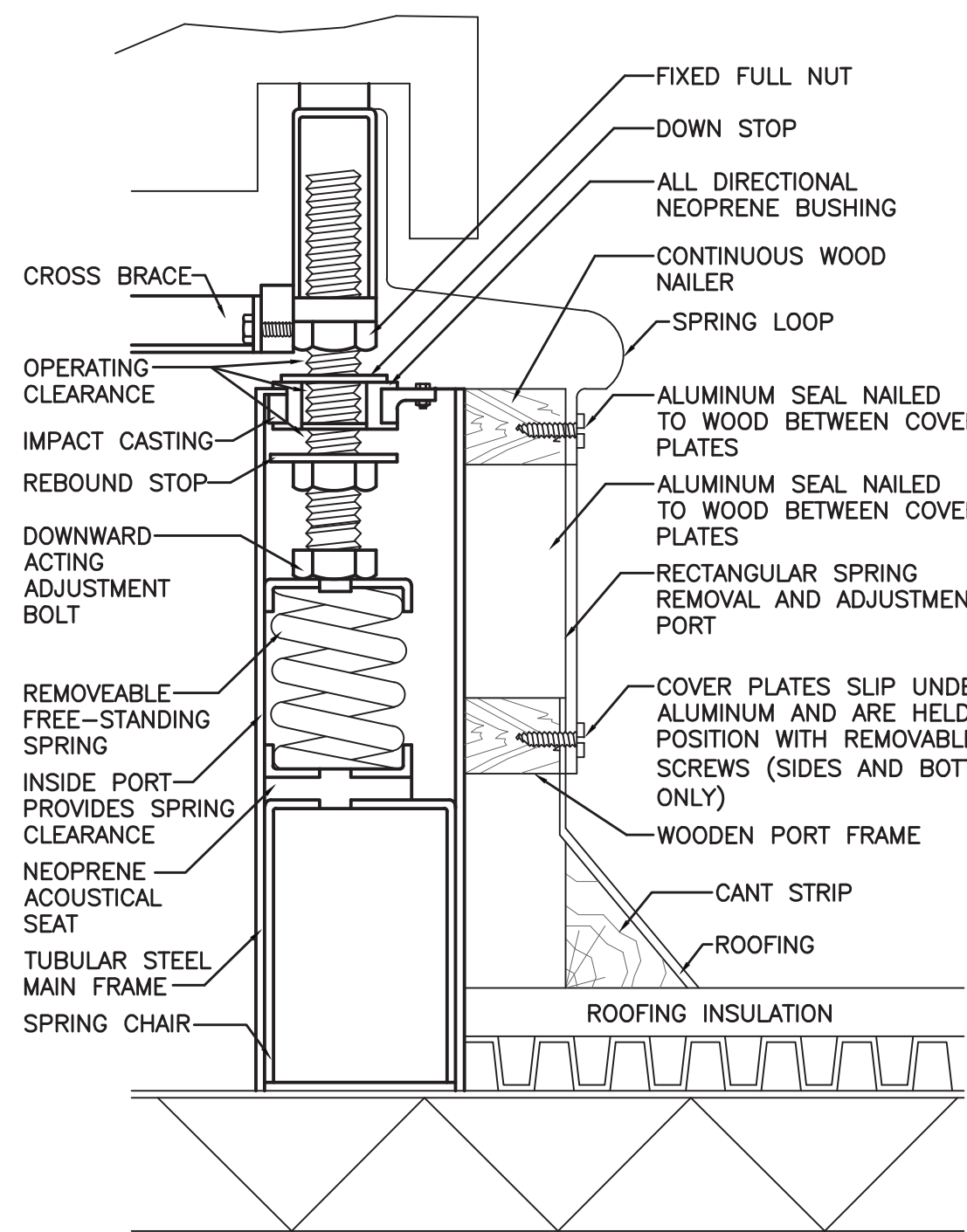
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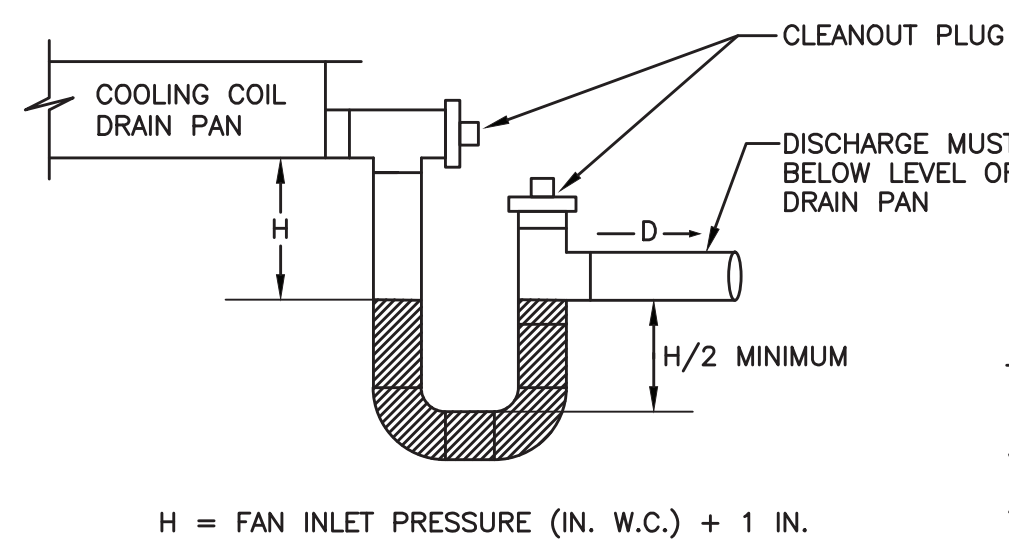
S.E.D. CONTROL NUMBER:
GREENVILLE ELEMENTARY SCHOOL
66-04-06-03-0-001-021
SEELY PLACE ELEMENTARY SCHOOL
66-04-06-03-0-001-019

PROJECT:
EDGEMONT SCHOOL DISTRICT
GREENVILLE ELEMENTARY SCHOOL
SEELY PLACE ELEMENTARY SCHOOL
PHASE 1 - HVAC & CAFETERIA
DRAWING TITLE:
MECHANICAL CONTROLS DIAGRAM

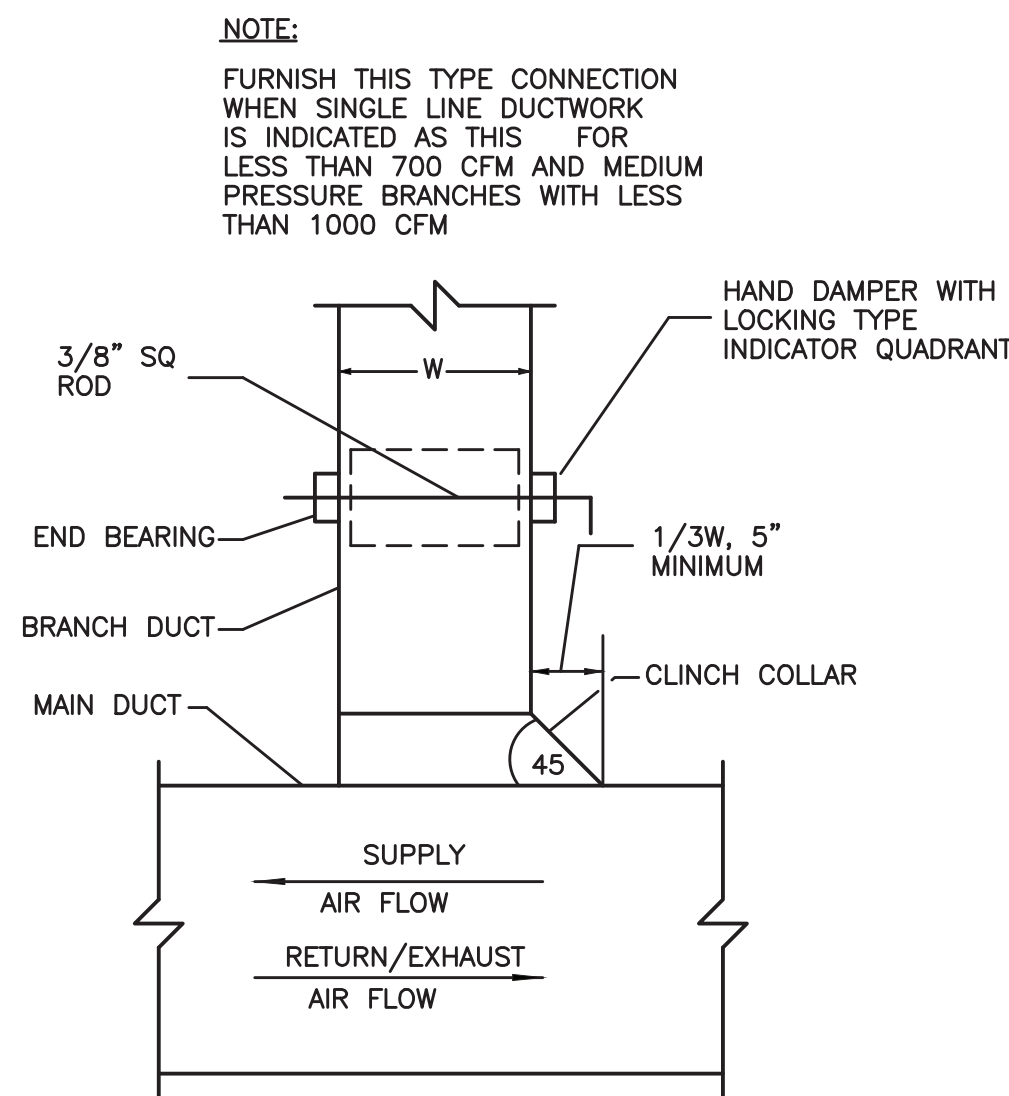
1-06-2023	BID
DATE	ISSUED TO
SHEET SIZE 30"x42"	DRAWING NO. SPES M201
SCALE AS NOTED	FILE NO. 21434.01
DRAWN BY LFG	



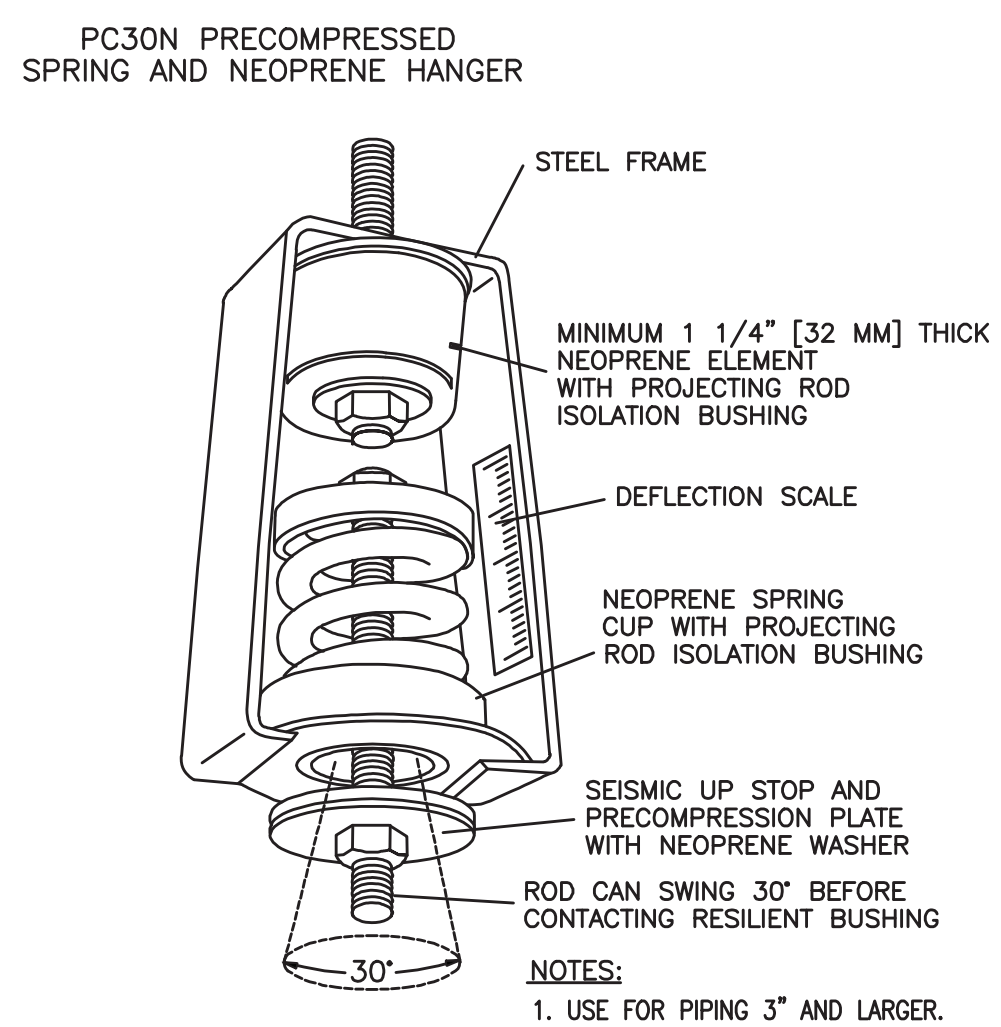
ROOFTOP SPRING CURB DETAIL
NO SCALE



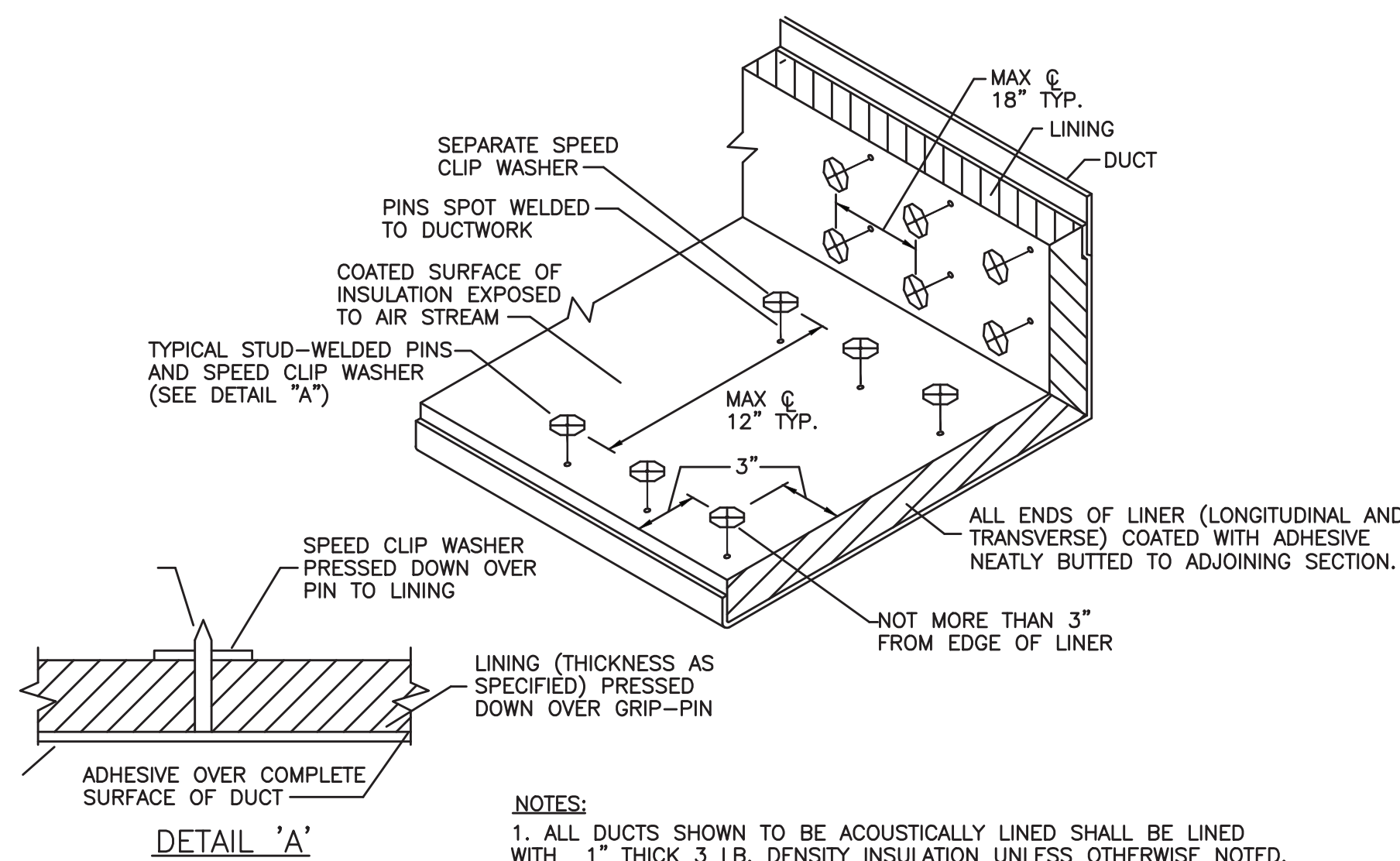
CONDENSATE TRAP DETAIL
DRAW-THRU UNIT
NO SCALE



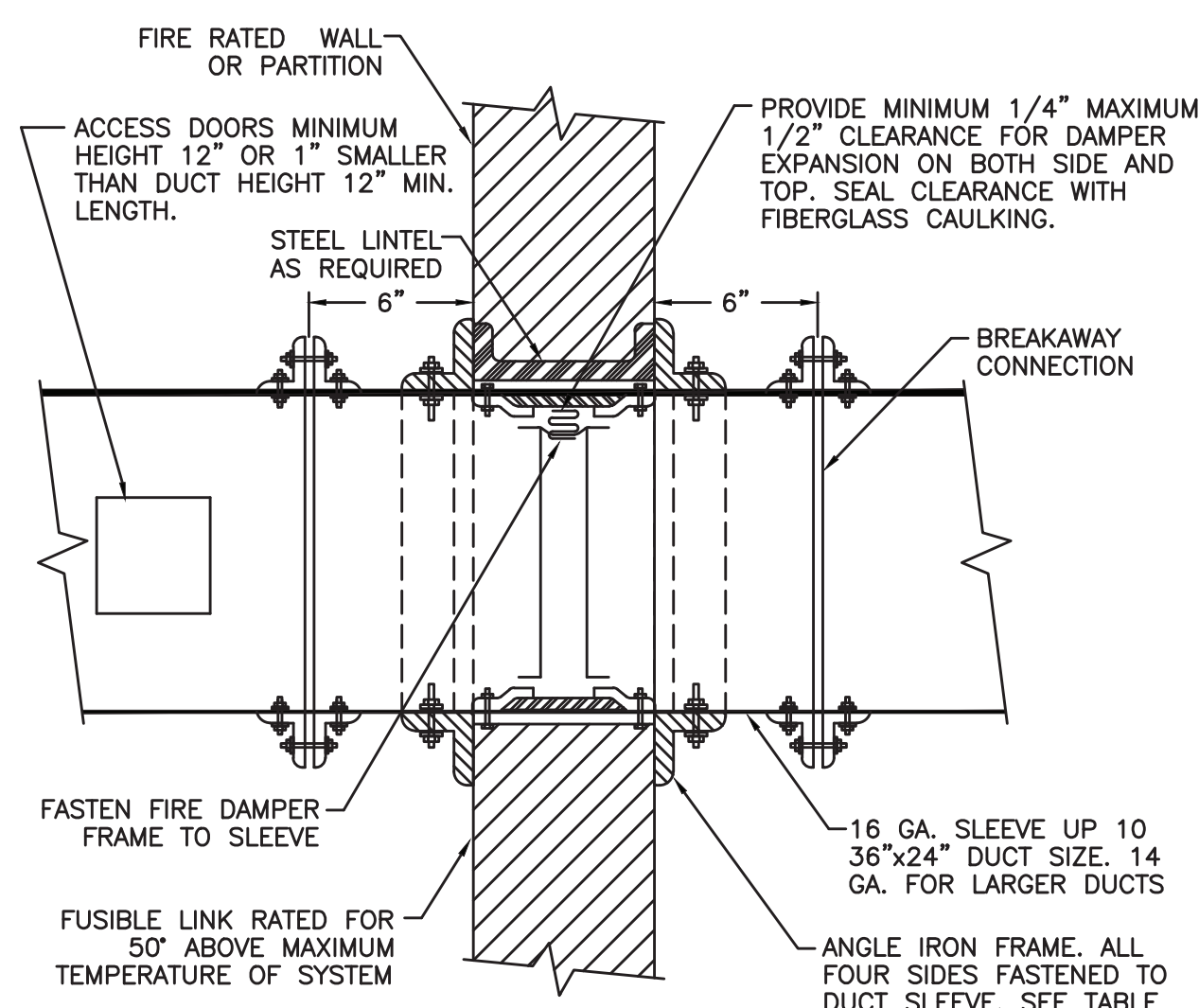
RECTANGULAR DUCT TAP
NO SCALE



SPRING ISOLATOR DETAIL
NO SCALE



SOUND LINING INSTALLATION DETAIL
NO SCALE

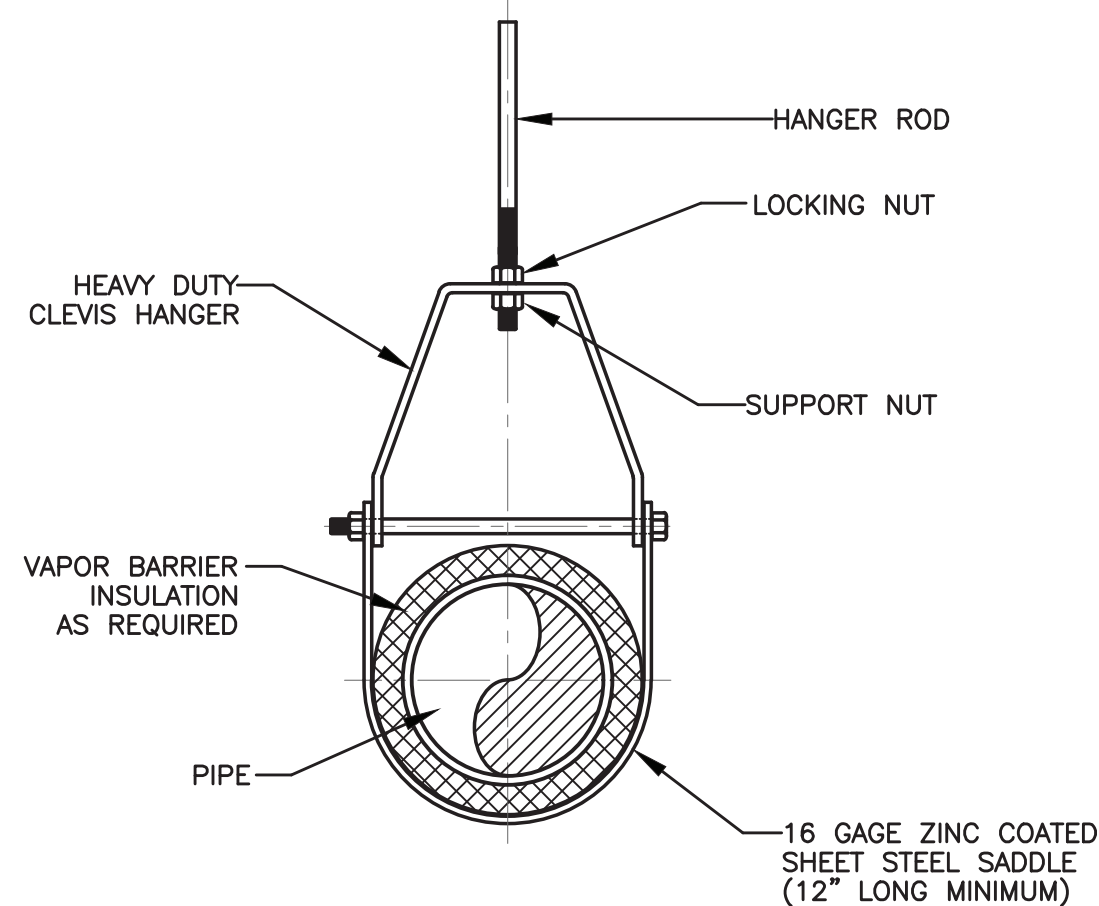


LOW PRESSURE FIRE DAMPER DETAIL
NO SCALE

WALL OPENING SIZE	ANGLE SIZE
UP TO 30"	1"x1"x1/8"
31" TO 54"	1 1/2"x1 1/2"x1/8"
55" TO 84"	3"x2"x3/16"
85" TO 120"	3"x2"x3/16"

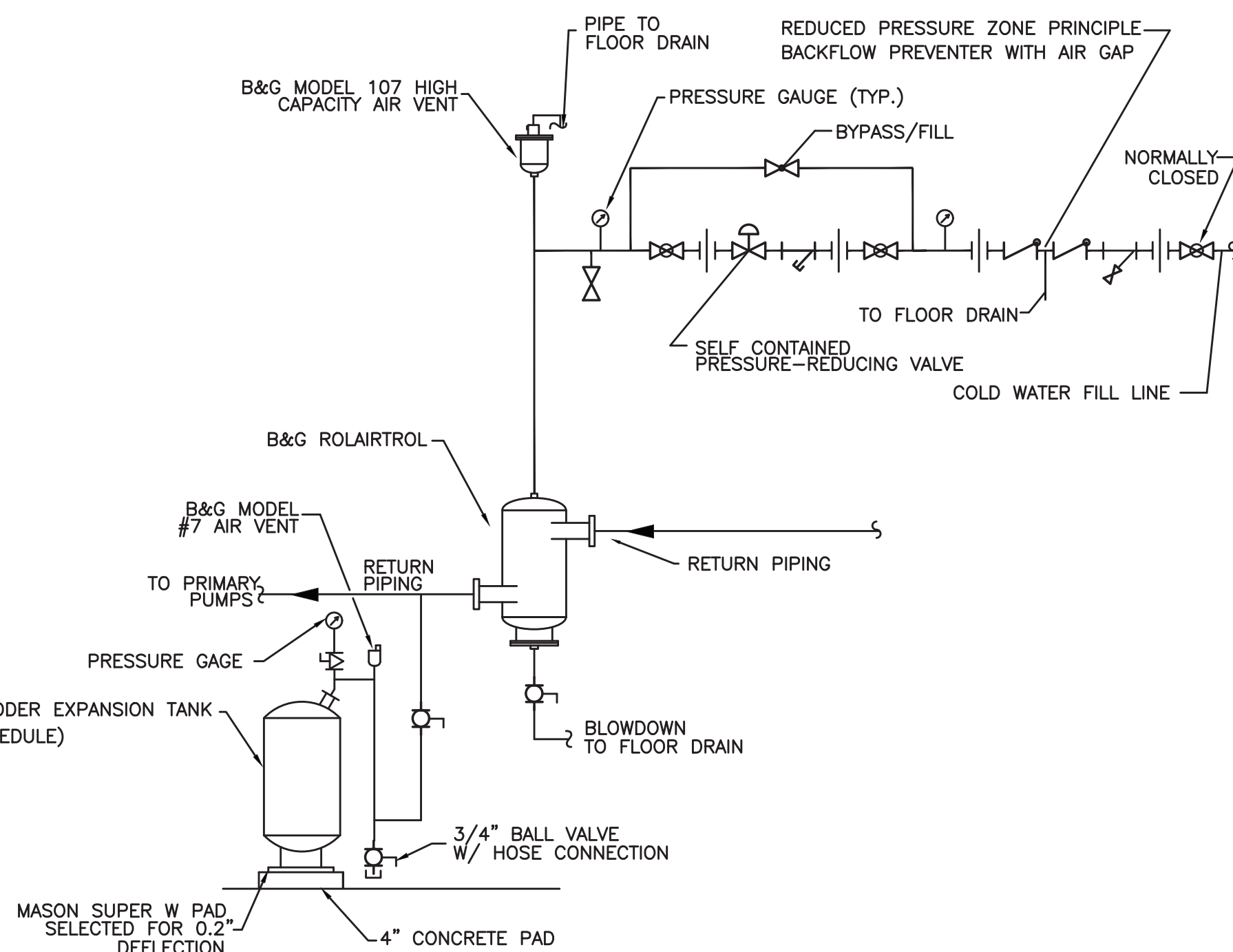
GENERAL NOTES

- FIRE DAMPER TO BE U.L. LABELED N.F.P.A. 90 A.
- N.F.P.A. APPROVED INSTALLATION DETAILS TO BE PART OF SUBMISSION OF FIRE DAMPER FOR APPROVAL WHICH SHALL MEET N.F.P.A. STANDARD 90 A.
- DETAILS SHOWN ARE FOR FIRE DAMPERS IN HORIZONTAL DUCTWORK. FOR FIRE DAMPERS IN VERTICAL DUCTWORK, DETAILS SIMILAR EXCEPT SHALL BE SPRING LOADED.
- U.L. APPROVED BREAKAWAY SLIP JOINT CONNECTION MAY BE USED IN LIEU OF FLANGED CONNECTION.
- ACCESS DOOR IS SHOWN ON SIDE OF DUCT. IF FUSABLE LINK IS MORE ACCESSIBLE FROM BOTTOM OF DUCT RELOCATE ACCESS DOOR.
- FROM FIRST 10'-0" OF FAN DISCHARGE DUCTS AND FOR DUCT SIZES LESS THAN 8" DEEP FIRE DAMPER BLADES SHALL BE INSTALLED IN POCKET OUTSIDE OF AIR STREAM.
- ALL FIRE DAMPERS TO BE LOCATED OUT OF AIR STREAM.

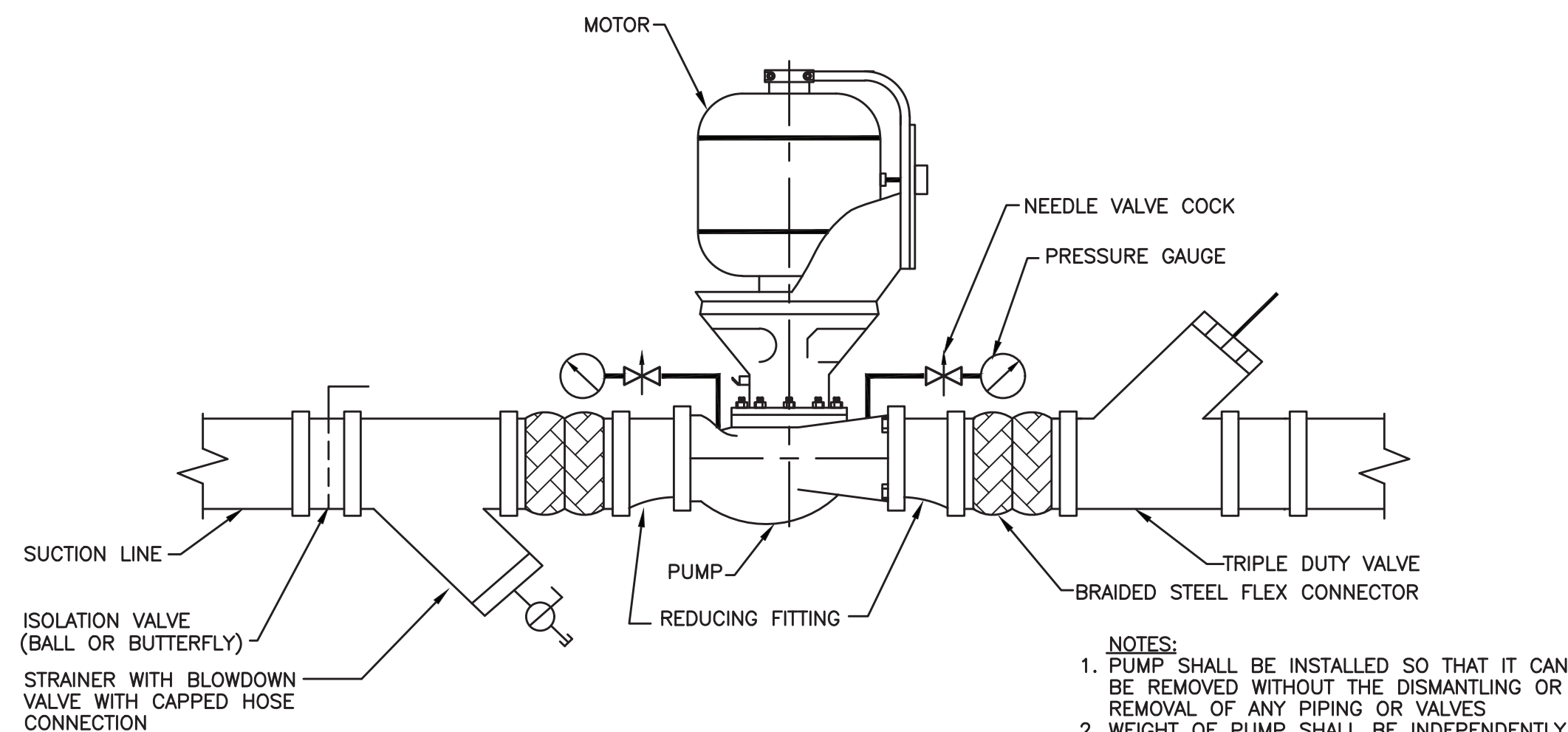


HANGER ROD SCHEDULE			
PIPE SIZE	ROD SIZE	PIPE SIZE	ROD SIZE
UP TO 2"	3/8" DIA.	4" THRU 5"	5/8" DIA.
2 1/2" THRU 3"	1/2" DIA.	6" THRU 12"	7/8" DIA.

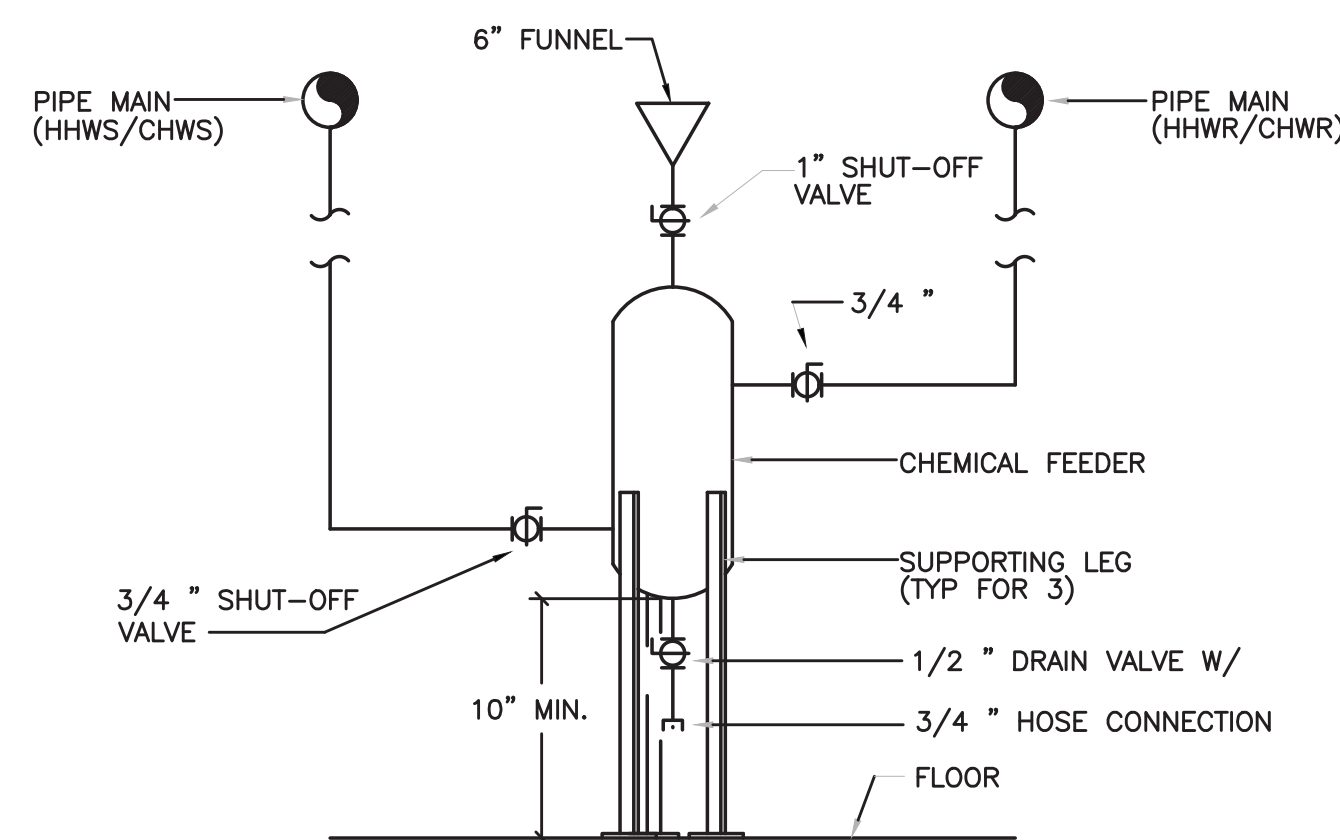
CLEVIS HANGER
HORIZONTAL RUNS



EXPANSION TANK CONNECTION DETAIL
CONDENSER WATER SYSTEM
NO SCALE



INLINE PUMP INSTALLATION
NO SCALE



CHEMICAL FEEDER DETAIL
NO SCALE

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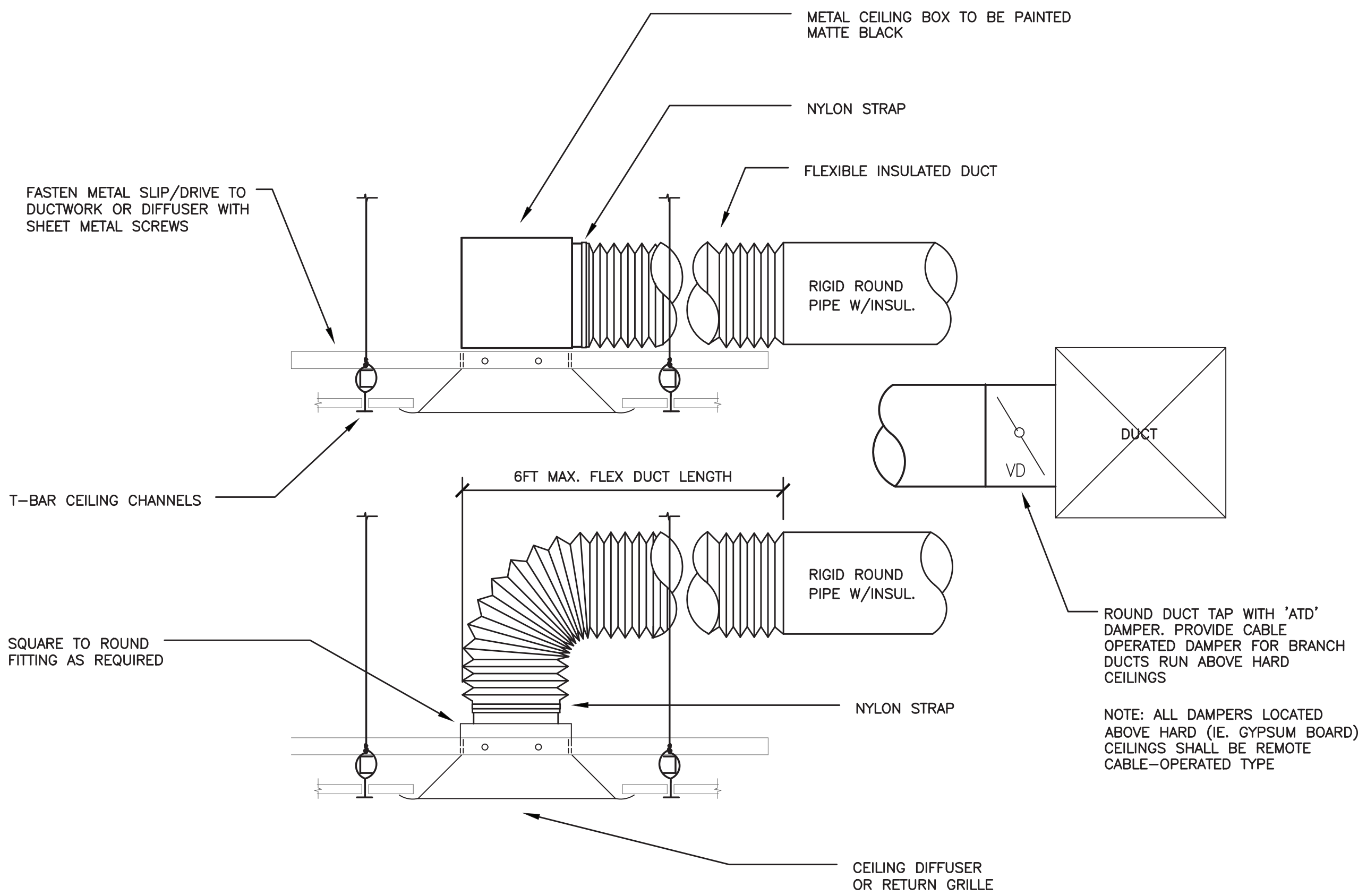
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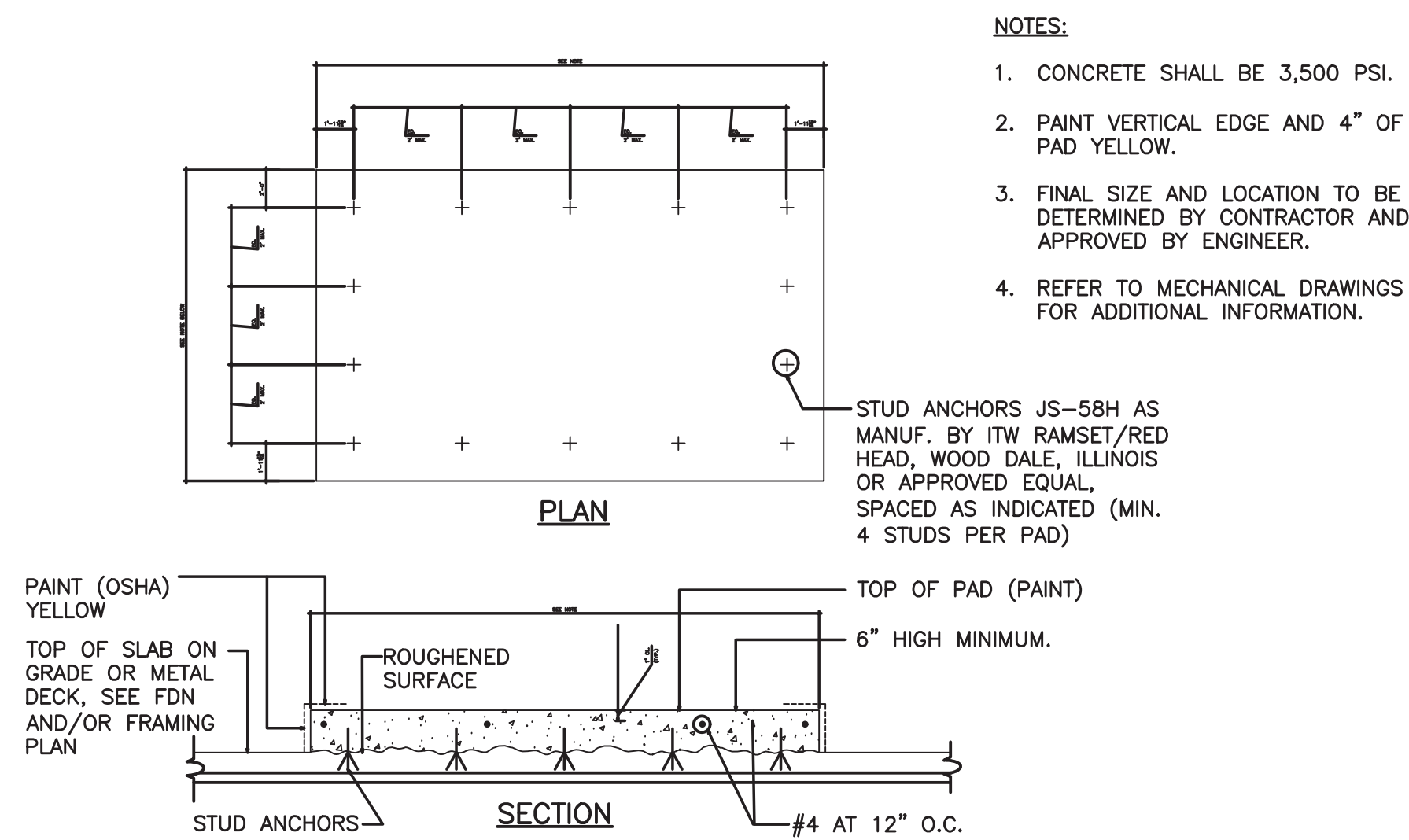
S.E.D. CONTROL NUMBER:
GREENVILLE ELEMENTARY SCHOOL
66-04-06-03-0-008-021
SEELY PLACE ELEMENTARY SCHOOL
66-04-06-03-0-001-019

PROJECT
EDGEMONT SCHOOL DISTRICT
GREENVILLE ELEMENTARY SCHOOL
SEELY PLACE ELEMENTARY SCHOOL
PHASE 1 - HVAC & CRETERIA
DRAWING TITLE
MECHANICAL DETAILS

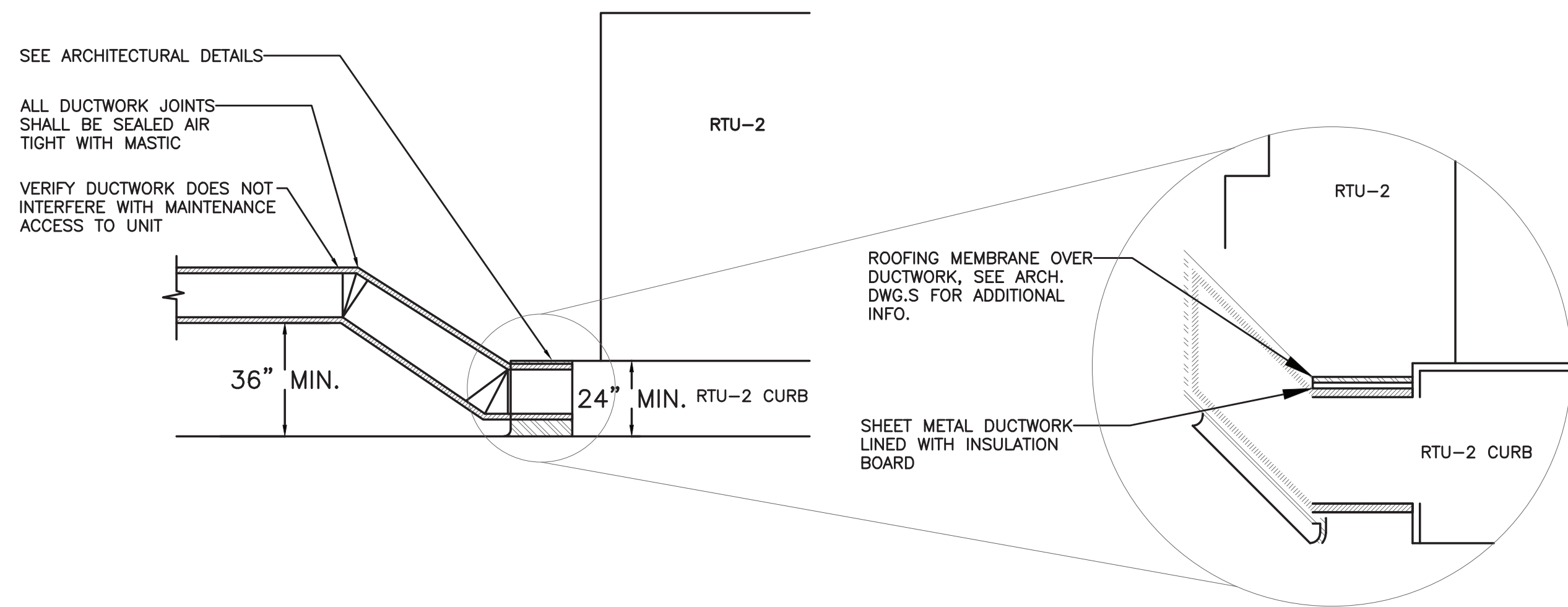
1-06-2023
DATE
SHEET SIZE
30"x42"
SCALE
AS NOTED
DRAWN BY
LFG
BID
ISSUED TO
DRAWING NO.
SPES
M202
FILE NO.
21434.01



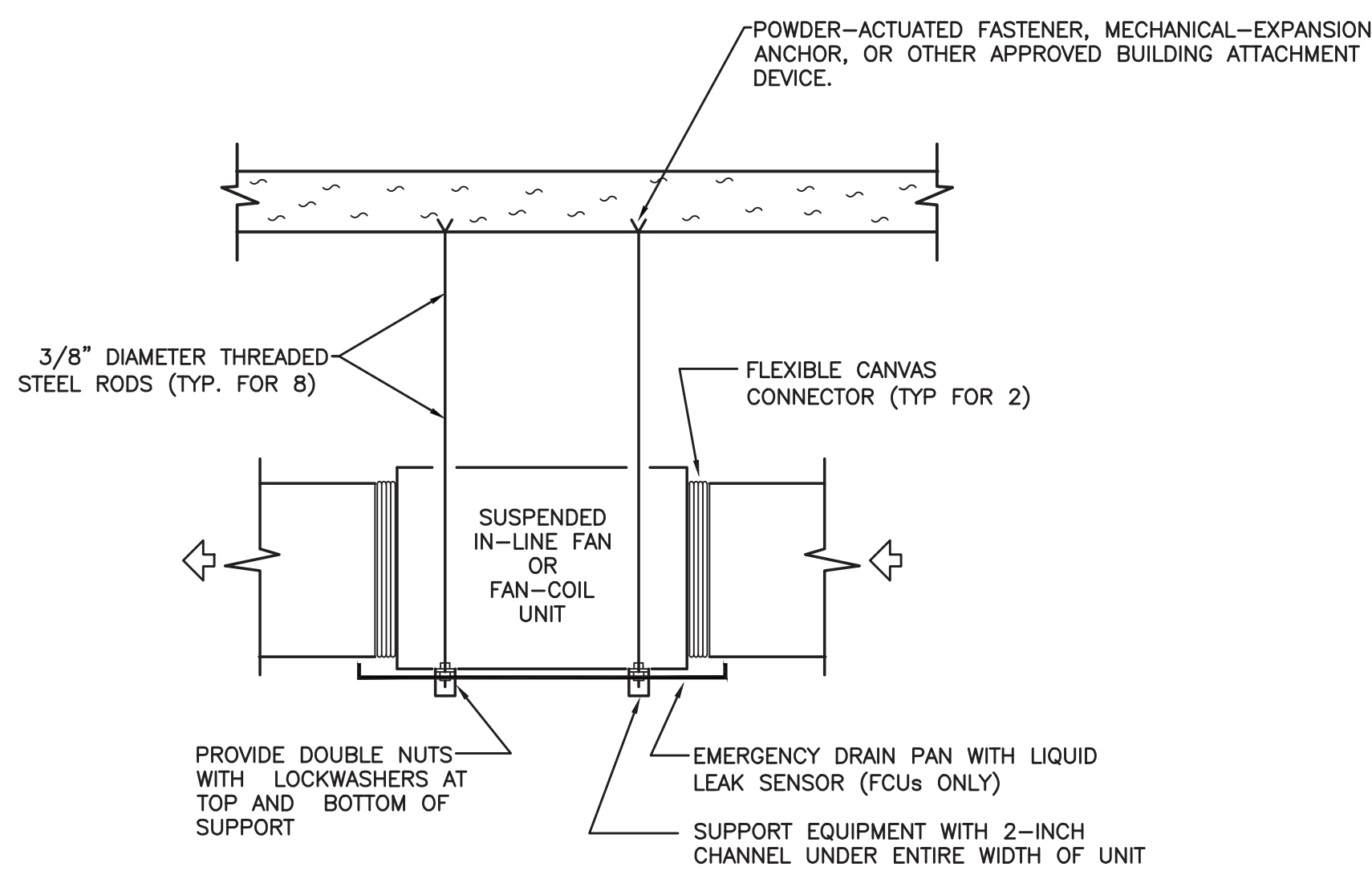
BRANCH DUCT DETAIL
NOT TO SCALE



CONCRETE EQUIPMENT PAD
NO SCALE



RTU-2 RETURN DUCTWORK DETAIL
NO SCALE



SUSPENDED EQUIPMENT DETAIL
TYPICAL FOR CEILING-MOUNTED FAN-COIL UNITS
AND EXHAUST FANS
NO SCALE

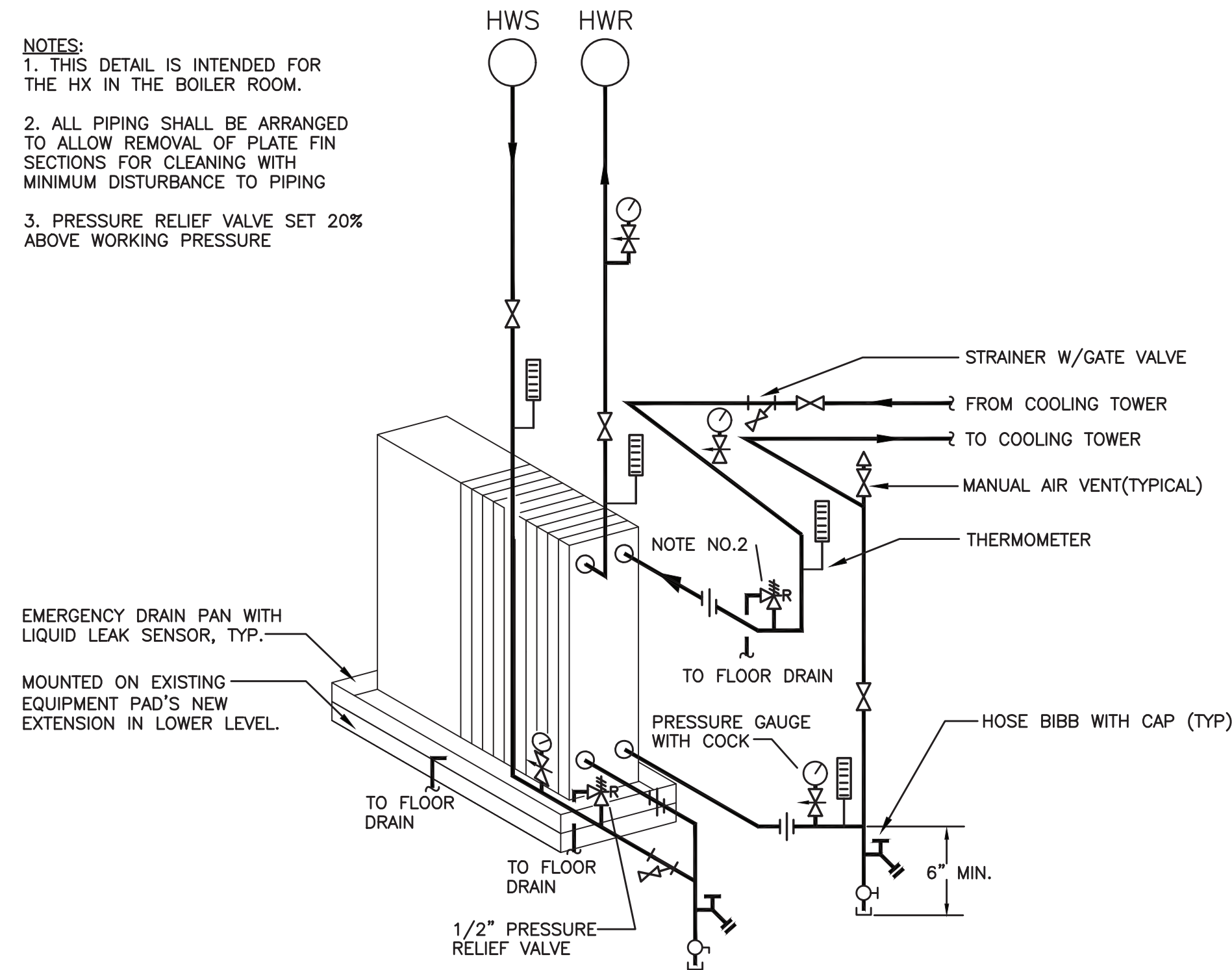
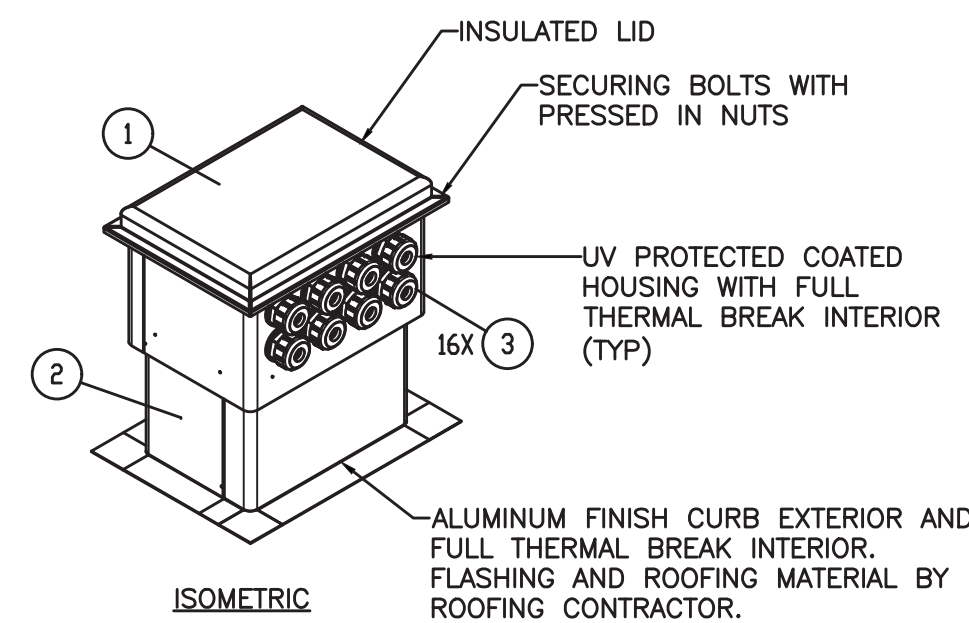


PLATE FRAME HEAT EXCHANGER PIPING (HX-1)
NO SCALE



ITEM NO.	NOMENCLATURE	PART NUMBER	QTY.
1	MEDIUM HOUSING	AL-201412	1
2	MEDIUM CURB 14" TALL	AL-1014C	1
3	SIGRIST EXIT SEAL	N/A	16

PIPE PORTAL DETAIL
NO SCALE

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S.E.D. CONTROL NUMBER:
GREENVILLE ELEMENTARY SCHOOL
66-04-06-03-0-001-021
SEELY PLACE ELEMENTARY SCHOOL
66-04-06-03-0-001-019

PROJECT
EDGEMONT SCHOOL DISTRICT
GREENVILLE ELEMENTARY SCHOOL
SEELY PLACE ELEMENTARY SCHOOL
PHASE 1 - HVAC & CATERIA

DRAWING TITLE
MECHANICAL DETAILS

1-06-2023	BID
DATE	ISSUED TO
SHEET SIZE 30"x42"	DRAWING NO. SPES M203
SCALE AS NOTED	FILE NO. 21434.01
DRAWN BY LFG	

NEW VRF SPLIT HEAT PUMP SYSTEM SCHEDULE																
TAG	MFG	MODEL	PEAK AIRFLOW (CFM)	COOLING CAPACITY			HEATING CAPACITY			REFRIGERANT PIPING		ELECTRICAL			AREA SERVED	
				TOTAL (BTUH)	SENS. (BTUH)	ENT. AIR D.B. (°F)	BTUH	ENT. AIR D.B. (°F)		LIQ.(IN.)	SUCTION(IN.)	VOLTAGE	MCA	MOCP		
FCU-1	DAIKIN	FXZQ18TAVJU	511	15,467	11,298	75.0	20,814	68.0				208/1	0.6	15	[002] SCIENCE ROOM	
FCU-2	DAIKIN	FXZQ18TAVJU	511	15,467	11,298	75.0	20,814	68.0				208/1	0.6	15	[003] BAND ROOM	
FCU-3	DAIKIN	FXZQ05TAVJU	300	5,004	4,265	75.0	6,824	68.0				208/1	0.3	15	[104] VESTIBULE	
FCU-4	DAIKIN	FXZQ09TAVJU	317	8,188	5,824	75.0	10,919	68.0				208/1	0.3	15	[105] HEALTH OFFICE	
FCU-5A	DAIKIN	FXZQ09TAVJU	317	8,188	5,824	75.0	10,919	68.0				208/1	0.3	15	[106] KINDERGARTEN	
FCU-5B	DAIKIN	FXZQ09TAVJU	317	8,188	5,824	75.0	10,919	68.0				208/1	0.3	15	[106] KINDERGARTEN	
FCU-6	DAIKIN	FXZQ05TAVJU	300	5,004	4,265	75.0	6,824	68.0				208/1	0.3	15	[104] VESTIBULE	
FCU-7A	DAIKIN	FXZQ12TAVJU	353	10,463	7,037	75.0	13,990	68.0				208/1	0.4	15	[108] KINDERGARTEN	
FCU-7B	DAIKIN	FXZQ12TAVJU	353	10,463	7,037	75.0	13,990	68.0				208/1	0.4	15	[108] KINDERGARTEN	
FCU-8	DAIKIN	FXZQ05TAVJU	300	5,004	4,265	75.0	6,824	68.0				208/1	0.3	15	[200A] VESTIBULE	
FCU-9	DAIKIN	FXZQ05TAVJU	300	5,004	4,265	75.0	6,824	68.0				208/1	0.3	15	[200B] CORRIDOR	
FCU-10	DAIKIN	FXZQ05TAVJU	300	5,004	4,265	75.0	6,824	68.0				208/1	0.3	15	[200C] STORAGE	
FCU-11	DAIKIN	FXZQ07TAVJU	307	6,596	5,133	75.0	8,872	68.0				208/1	0.3	15	[205] AIDES COPY RM	
FCU-12A	DAIKIN	FXZQ09TAVJU	317	8,188	5,824	75.0	10,919	68.0				208/1	0.3	15	[206] 5TH GR. SPECIAL ED	
FCU-12B	DAIKIN	FXZQ09TAVJU	317	8,188	5,824	75.0	10,919	68.0				208/1	0.3	15	[206] 5TH GR. SPECIAL ED	
FCU-13	DAIKIN	FXZQ09TAVJU	317	8,188	5,824	75.0	10,919	68.0				208/1	0.3	15	[207] PSYCH OFFICE	
FCU-14A	DAIKIN	FXZQ15TAVJU	405	13,079	9,333	75.0	17,743	68.0				208/1	0.4	15	[208] 6TH GR. CLASSROOM	
FCU-14B	DAIKIN	FXZQ15TAVJU	405	13,079	9,333	75.0	17,743	68.0				208/1	0.4	15	[208] 6TH GR. CLASSROOM	
FCU-15A	DAIKIN	FXZQ15TAVJU	405	13,079	9,333	75.0	17,743	68.0				208/1	0.4	15	[209] 6TH GR. CLASSROOM	
FCU-15B	DAIKIN	FXZQ15TAVJU	405	13,079	9,333	75.0	17,743	68.0				208/1	0.4	15	[209] 6TH GR. CLASSROOM	
FCU-16A	DAIKIN	FXZQ12TAVJU	353	10,463	7,037	75.0	13,990	68.0				208/1	0.4	15	[210] 6TH GR. CLASSROOM	
FCU-16B	DAIKIN	FXZQ12TAVJU	353	10,463	7,037	75.0	13,990	68.0				208/1	0.4	15	[210] 6TH GR. CLASSROOM	
FCU-17	DAIKIN	FXZQ12TAVJU	353	10,463	7,037	75.0	13,990	68.0				208/1	0.4	15	[211] READING	
FCU-18	DAIKIN	FXZQ18TAVJU	511	15,467	11,298	75.0	20,814	68.0				208/1	0.6	15	[212] 5TH GR. CLASSROOM	
FCU-19	DAIKIN	FXZQ12TAVJU	353	10,463	7,037	75.0	13,990	68.0				208/1	0.4	15	[213] SPECIAL ED TEACHERS	
FCU-20A	DAIKIN	FXZQ18TAVJU	511	15,467	11,298	75.0	20,814	68.0				208/1	0.6	15	[001] CAFETERIA	
FCU-20B	DAIKIN	FXZQ18TAVJU	511	15,467	11,298	75.0	20,814	68.0				208/1	0.6	15	[001] CAFETERIA	
FCU-20C	DAIKIN	FXZQ18TAVJU	511	15,467	11,298	75.0	20,814	68.0				208/1	0.6	15	[001] CAFETERIA	
FCU-20D	DAIKIN	FXZQ18TAVJU	511	15,467	11,298	75.0	20,814	68.0				208/1	0.6	15	[001] CAFETERIA	
FCU-20E	DAIKIN	FXZQ18TAVJU	511	15,467	11,298	75.0	20,814	68.0				208/1	0.6	15	[001] CAFETERIA	
FCU-20F	DAIKIN	FXZQ18TAVJU	511	15,467	11,298	75.0	20,814	68.0				208/1	0.6	15	[001] CAFETERIA	
NOTES: 1. ALL EQUIPMENT SHALL OPERATE WITH R-410A REFRIGERANT. 2. ALL UNITS SHALL BE FURNISHED WITH FACTORY CONDENSATE PUMPS. 3. ALL EQUIPMENT SHALL BE FURNISHED WITH BACNET CARDS FOR INTEGRATION INTO BAS. COORDINATE WITH ATC CONTRACTOR. 3. PROVIDE 7-DAY PROGRAMMABLE THERMOSTATS WITH LCD DISPLAY AT LOCATIONS SHOWN ON PLANS. DEVICES SHALL BE NETWORKED TO BAS.																

REFER TO PIPING DIAGRAMS FOR ALL DX PIPE SIZES.

NEW HYDRONIC-TO-REFRIGERANT HEAT EXCHANGER SCHEDULE													
TAG	MAKE	MODEL	COOLING		HEATING		FLUID	FLOW RATE (GPM)	ELECTRICAL			UNIT WEIGHT (LBS)	NOTES
			CAPACITY (MBH)	EWI/LWT (F)	CAPACITY (MBH)	EWI/LWT (F)			VOLTAGE/PHASE	MCA (A)	MFS (A)		
HHX-G	DAIKIN	RWEQ120TATJA-HR	116.5	85.0/100.1	158.2	68.0/53.5	WATER	20.0	208/3	36.5	45.0	20.0	
HHX-1	DAIKIN	RWEQ96TATJA-HR	100.1	85.0/99.9	133.8	68.0/53.4	WATER	16.5	208/3	28.8	35.0	16.5	
HHX-2	DAIKIN	RWEQ96TATJA-HR	96.9	85.0/100.1	130.7	68.0/53.0	WATER	15.5	208/3	28.8	35.0	15.5	
HHX-DOAS	DAIKIN	RWEQ144TATJA	144.6	85.0/100.1	168.2	68.0/56.0	WATER	24.0	208/3	44.6	50.0	24.0	
NOTES:													
1. ALL EQUIPMENT SHALL OPERATE WITH R-410A REFRIGERANT.													
2. ALL EQUIPMENT SHALL BE FURNISHED WITH BACNET CARDS FOR INTEGRATION INTO BAS. COORDINATE WITH ATC CONTRACTOR.													
3. PROVIDE GALVANIZED STEEL EMERGENCY DRAIN PAN BELOW UNITS WITH LIQUID LEAK DETECTOR.													

EXTERIOR LOUVER SCHEDULE	
TAG	EL-1
PRODUCT TYPE	DRAINABLE LOUVER
MANUFACTURER	AIRLOLITE
MODEL	K6744
AREA (IN. X IN.)	12 X 12
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.	

NEW PACKAGED GAS-ELECTRIC ROOFTOP UNIT SCHEDULE													
TAG	MFG	MODEL NO.	SERIAL NO.	AIR FLOW (CFM)		MOTOR HP	ESP (IN. WC)	COOLING				NAT. GAS INPUT (MBH)	HEAT OUTPUT (MBH)
				TOTAL	OUTDOOR			TOTAL (MBH)	SENSIBLE (MBH)	ENT AIR DB (°F)	LEAV. AIR DB (°F)		
RTU-2	DAIKIN	DPS007A		3035	475	4.0	1.00	95.4	75.1	76.9	64.6	54.3	54.2
RTU-3	DAIKIN	DPS007A		2650	1850	4.0	1.00	94.5	69.2	76.7	64.8	52.8	52.8
NOTES: 1. UNITS SHALL BE FURNISHED WITH BACNET CARDS FOR INTEGRATION INTO BAS. COORDIANTE WITH ATC CONTRACTOR. 2. CONTRACTOR SHALL PROVIDE SMOKE DETECTORS IN RA DUCT AS INDICATED ON PLANS. 3. CONFIRM NAT. GAS AND VERIFY WHETHER REGULATOR IS REQUIRED AT EACH UNIT. 4. CONTRACTOR TO PROVIDE NEW HORIZONTAL OUTLET VIBRATION ISOLATION CURBS BY CAMBRIDGEPORT. 5. UNITS SHALL INCLUDE FACTORY VFD, DISCONNECT SWITCHED AND GFI RECEPTACLE.													

ENERGY RECOVERY VENTILATOR SCHEDULE											
TAG	LOCATION	MFG/R/ MODEL	CFM	ESP (IN. WC)	COOLING CAPACITY (MBH)	HEATING CAPACITY (MBH)	OUTSIDE AIR		SUPPLY AIR		WEIGHT (LBS)
							WINTER DB/WB (°F)	SUMMER DB/WB (°F)	WINTER DB/WB (°F)	SUMMER DB/WB (°F)	
ERV-1	ROOF	OXYGENB/C400U	4245	1.5	204.0	233.1	12.7/12.6	86.5/72.1	50.3/40.0	79.0/67.5	208V-3ø 27.33 35 1225
NOTES: 1. UNIT SHALL BE FURNISHED WITH BACNET CARD FOR INTEGRATION INTO BAS. COORDIANTE WITH ATC CONTRACTOR. 2. CONTRACTOR SHALL PROVIDE SMOKE DETECTORS IN RA DUCT AS INDICATED ON PLANS. 3. CONTRACTOR TO PROVIDE NEW HORIZONTAL OUTLET VIBRATION ISOLATION CURB BY CAMBRIDGEPORT. 4. UNIT SHALL BE FURNISHED WITH LOW LEAKAGE MOTORIZED EXHAUST AND OUTDOOR AIR DAMPERS. 5. UNIT SHALL FEATURE ECM BLOWERS. 6. PROVIDE FACTORY DISCONNECT SWITCH.											

EXHAUST FAN SCHEDULE										
TAG	MFG	MODEL	AIR FLOW (CFM)	STATIC PRESS. (IN. H2O)	RPM	WATTS	VOLTAGE	FLA	WEIGHT (LBS)	SERVICE
EF 1-1	COOK	90SQN17DEC	350	0.3	1725	106	115-1-60	--	58	CAFETERIA 1,2,3
NOTES: 1. FAN SHALL BE EQUIPPED WITH FACTORY DISCONNECT SWITCH. 2. FAN SHALL BE EQUIPPED WITH FACTORY BACKDRAFT DAMPER. 3. FAN SHALL BE INTEGRATED INTO BY BAS BY ATC CONTRACTOR.										

AIR OUTLET SCHEDULE					
TAG	MFG	MODEL	AIRFLOW (CFM)	SIZE	NOTES
CD-1	TITUS	OMNI	SEE DWGS	24X24	1
RAG-1	TITUS	35ORL	SEE DWGS	24X12	1
RAG-2	TITUS	35ORL	SEE DWGS	24X24	1
EG-1	TITUS	50FF	SEE DWGS	12X12	1
NOTES: 1. ALL AIR OUTLETS SHALL BE WHITE UNLESS OTHERWISE NOTED ON ARCHITECTURAL PLANS.					

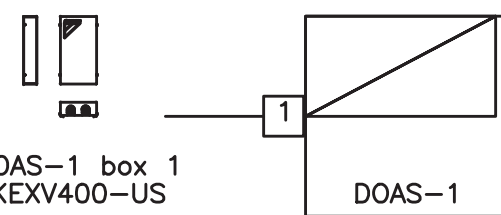
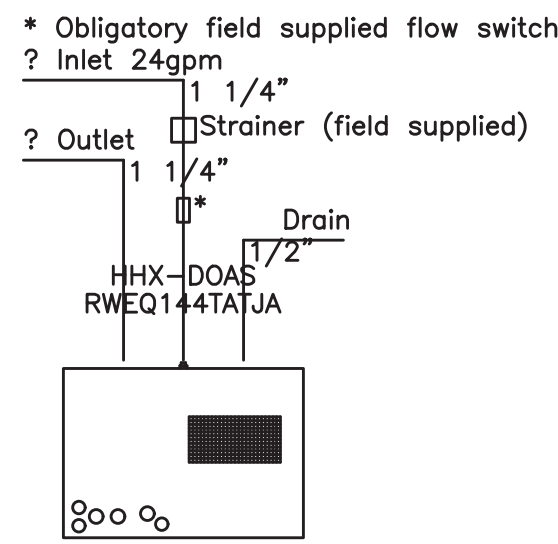
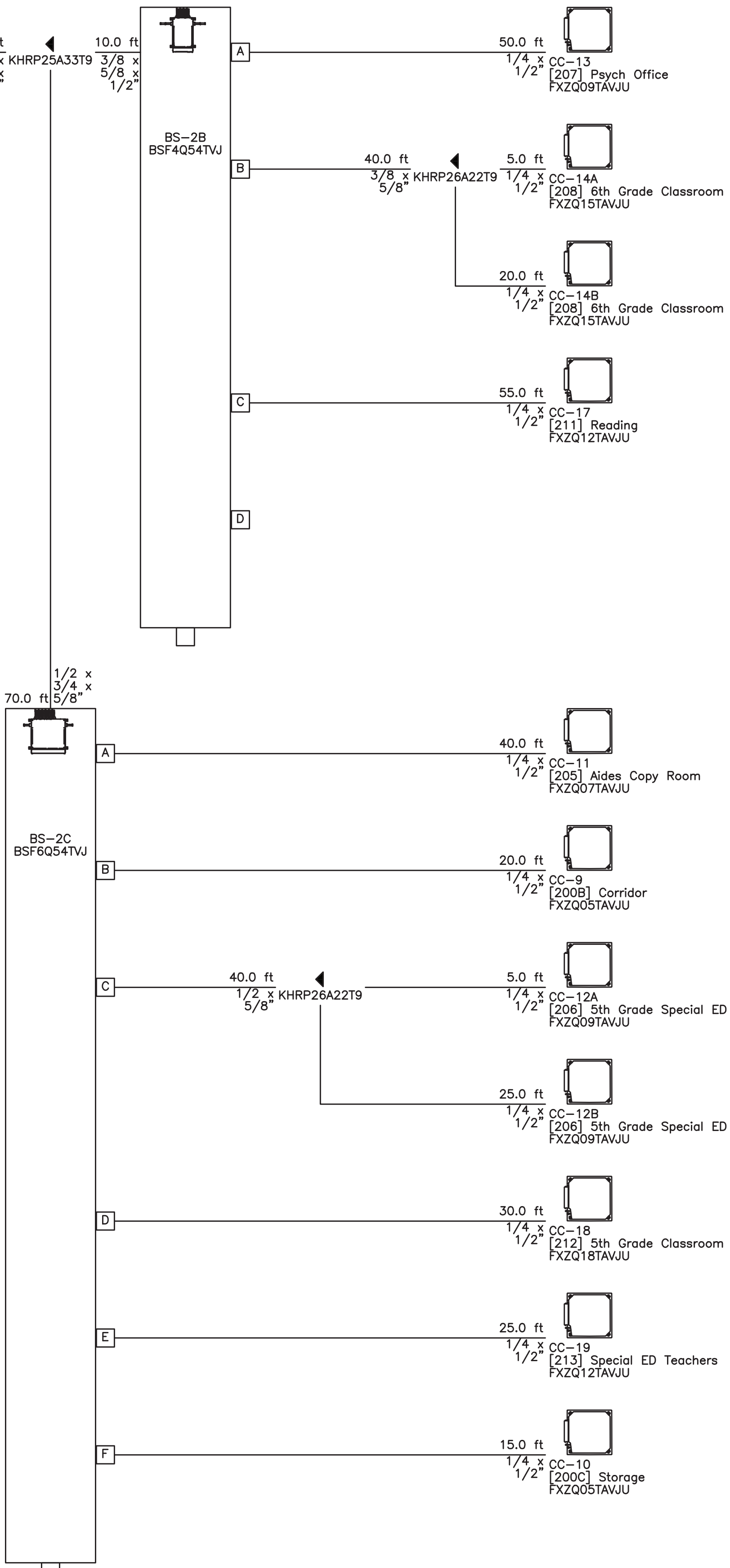
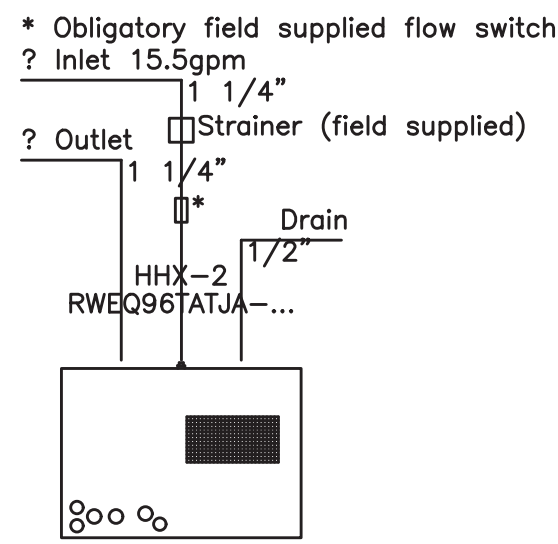
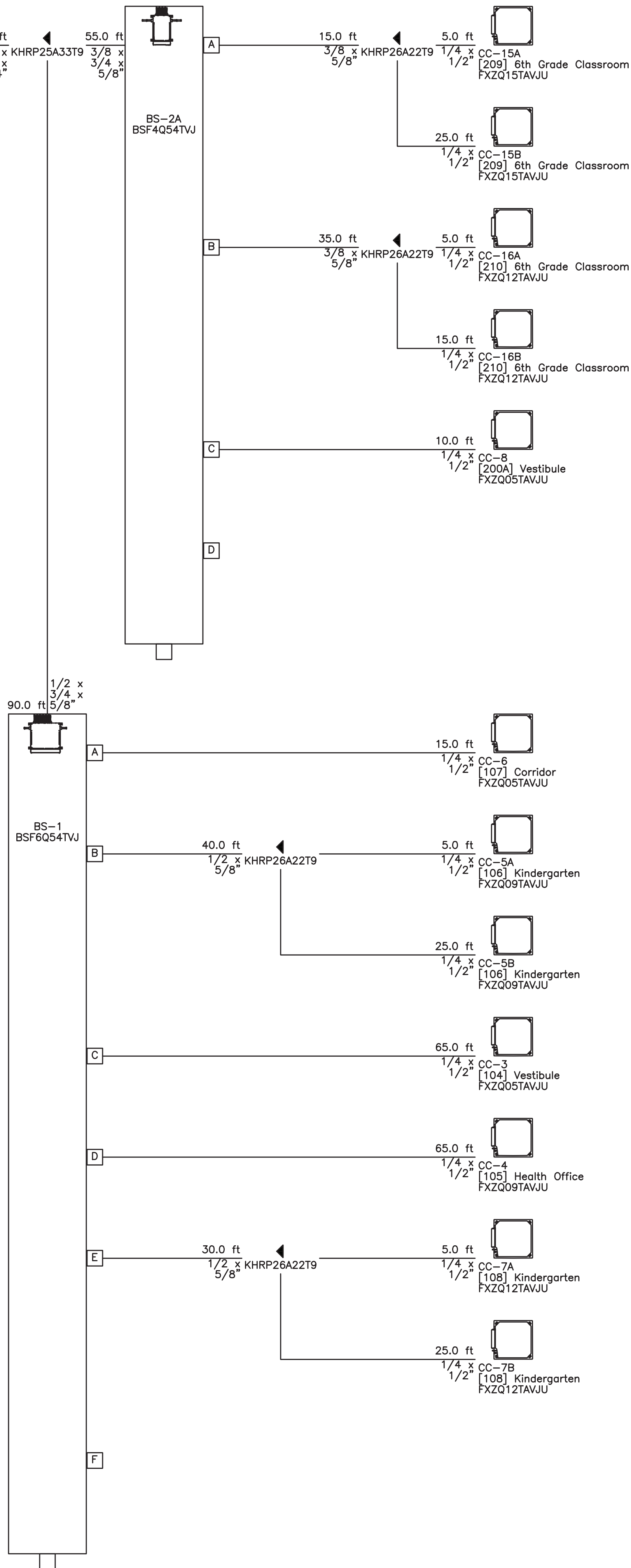
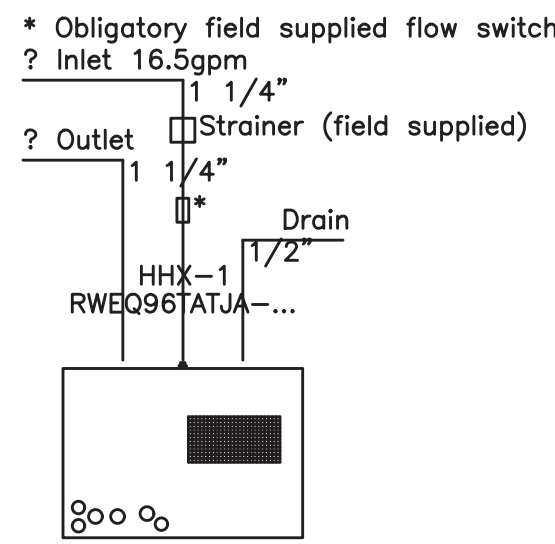
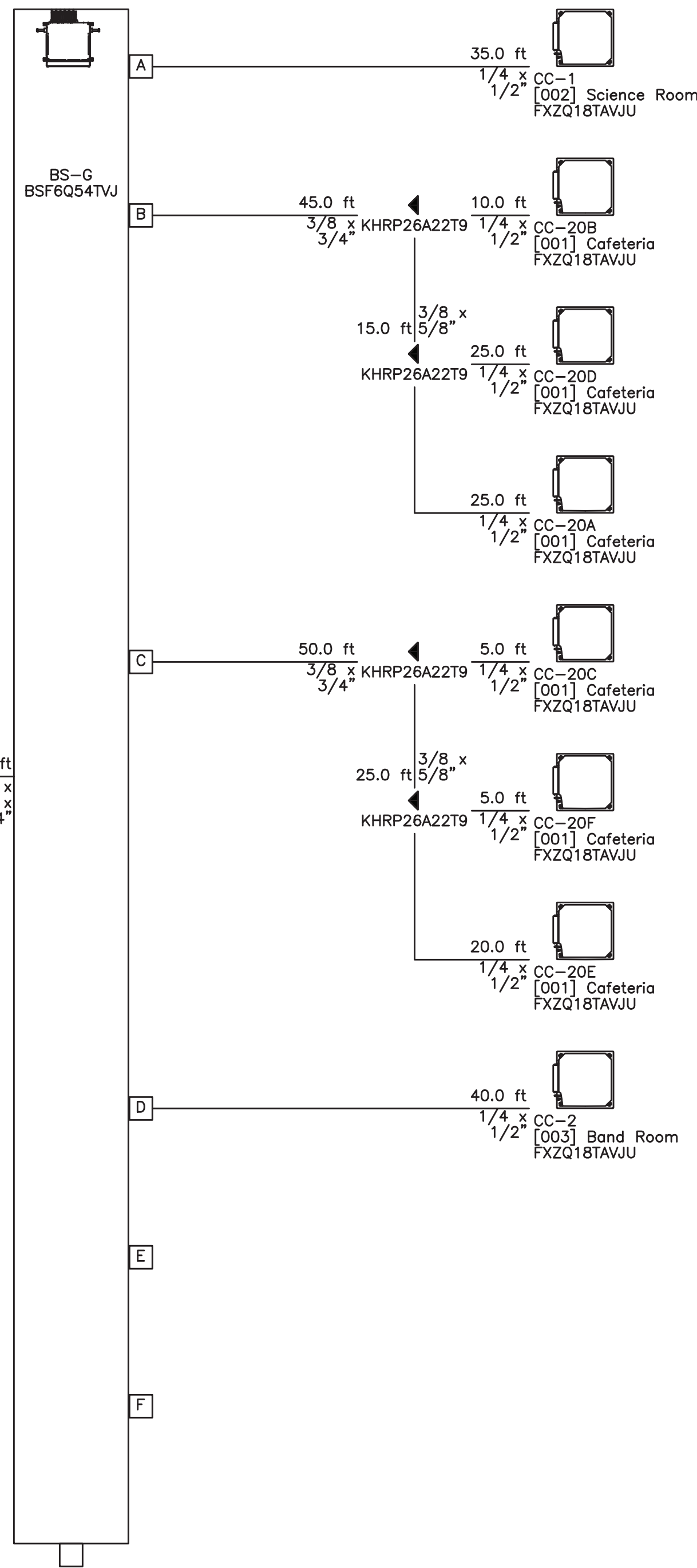
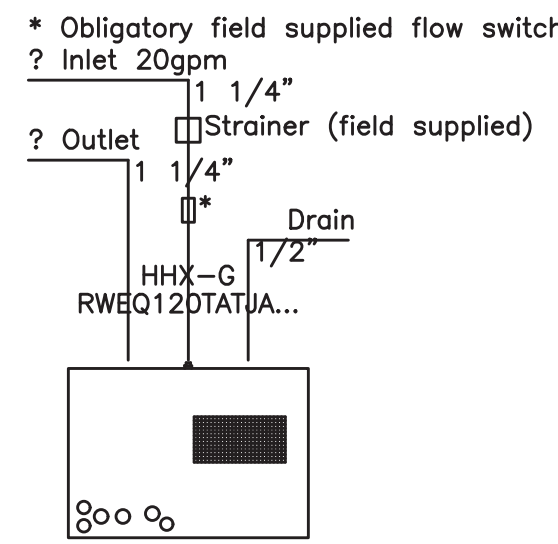
COOLING TOWER SCHEDULE					
TAG		CT-1			
MAKE		B.A.C.			
MODEL		NXF-0403N-CS2T-H6			
OPERATING WT (LBS)		16,576			
FLUID		WATER			
NET CAPACITY (TONS)		P R E S E N T	38	F U T U R E	140
TOTAL HEAT REJECTION (MBH)			570		2097
AIR FLOW (CFM)			—		33,664
FLOW RATE (GPM)			114		280
COIL PRESSURE DROP (FT)			8.2		4.8
ENTERING WATER TEMP. (°F)		93.0	100.0		
LEAVING WATER TEMP. (°F)		83.0	85.0		
AMBIENT AIR WET BULB TEMP. (°F)		78.0			
FAN	TYPE	AXIAL			
	QTY	6			
	HP (EACH)	5.0			
SPRAY PUMP	TYPE	PSC MOTOR			
	QTY	6			
	HP (EACH)	0.50			
ELECTRICAL	VOLTAGE	208/3ø			
	MCA	90.7			
	MOCP	100			
NOTES:					
1. TOWER HAS BEEN SELECTED WITH APPROX. 75% FUTURE HEAT REJECTION CAPACITY.					
2. PROVIDE FACTORY COOLING TOWER CONTROLLER TO CONTROL SPRAY PUMPS AND FANS TO MAINTAIN LEAVING WATER TEMPERATURE.					
3. PROVIDE BACNET CARD FOR BAS INTEGRATION.					

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

VENTILATION AIR REQUIREMENTS									
Project:	Seely Place Elementary School (Phase I)			State:	New York	Relevant Code:	IMC 2020		
HVAC ZONE	AREA SERVED	OCCUPANCY CLASSIFICATION	OCCUPANT DENSITY (#/1000 SQFT)	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
ERV-1	[002] SCIENCE ROOM	Classrooms (ages 5-8)	-	37 (738 SF)	10 CFMPERSON 0.12 CFM/SF	0.8	573	575	1
	[003] BAND ROOM	Classrooms (ages 5-8)	-	20 (439 SF)	10 CFMPERSON 0.12 CFM/SF	0.8	316	320	1
	[104] VESTIBULE	Corridors	-	- (171 SF)	- CFMPERSON 0.06 CFM/SF	0.8	13	15	
	[105] HEALTH OFFICE	Office Space	5	3 (446 SF)	5 CFMPERSON 0.06 CFM/SF	0.8	52	55	
	[106] KINDERGARTEN	Classrooms (ages 5-8)	-	20 (877 SF)	10 CFMPERSON 0.12 CFM/SF	0.8	382	385	1
	[107] CORRIDOR	Corridors	-	- (432 SF)	- CFMPERSON 0.06 CFM/SF	0.8	32		
	[108] KINDERGARTEN	Classrooms (ages 5-8)	-	20 (955 SF)	10 CFMPERSON 0.12 CFM/SF	0.8	393	395	1
	[200A] VESTIBULE	Corridors	-	- (283 SF)	- CFMPERSON 0.06 CFM/SF	0.8	21	25	
	[200B] CORRIDOR	Corridors	-	- (361 SF)	- CFMPERSON 0.06 CFM/SF	0.8	27	30	
	[200C] STORAGE	Storage	-	- (175 SF)	- CFMPERSON 0.12 CFM/SF	0.8	26	30	
	[205] AIDS COPY ROOM	Copy, Printing rooms	4	2 (301 SF)	5 CFMPERSON 0.06 CFM/SF	0.8	35	40	
	[206] 5TH GRADE SPECIAL ED	Classrooms (ages 5-8)	-	20 (828 SF)	10 CFMPERSON 0.12 CFM/SF	0.8	374	375	1
	[207] PSYCH OFFICE	Office Space	5	2 (290 SF)	5 CFMPERSON 0.06 CFM/SF	0.8	34	35	
	[208] 6TH GRADE CLASSROOM	Classrooms (ages 5-8)	-	20 (778 SF)	10 CFMPERSON 0.12 CFM/SF	0.8	367	370	1
	[209] 6TH GRADE CLASSROOM	Classrooms (ages 5-8)	-	20 (826 SF)	10 CFMPERSON 0.12 CFM/SF	0.8	374	375	1
	[210] 6TH GRADE CLASSROOM	Classrooms (ages 5-8)	-	20 (791 SF)	10 CFMPERSON 0.12 CFM/SF	0.8	369	370	1
	[211] READING	Classrooms (ages 5-8)	-	9 (407 SF)	10 CFMPERSON 0.12 CFM/SF	0.8	174	175	1
	[212] 5TH GRADE CLASSROOM	Classrooms (ages 5-8)	-	20 (731 SF)	10 CFMPERSON 0.12 CFM/SF	0.8	360	360	1
	[213] SPECIAL ED TEACHERS	Classrooms (ages 5-8)	-	18 (358 SF)	10 CFMPERSON 0.12 CFM/SF	0.8	279	280	1
	CALCULATED OUTSIDE/MAKEUP AIR FOR SYSTEM TOTAL							4201	4245
RTU-2	[101] LIBRARY	Libraries	10	20 (1960 SF)	5 CFMPERSON 0.12 CFM/SF	0.8	419	420	
	[102] LIBRARY OFFICE	Office Space	5	1 (143 SF)	5 CFMPERSON 0.06 CFM/SF	0.8	17	20	
	[103] STORAGE	Storage	-	- (202 SF)	10 CFMPERSON 0.12 CFM/SF	0.8	30	35	
	CALCULATED OUTSIDE/MAKEUP AIR FOR SYSTEM TOTAL							466	475
RTU-3	[001] CAFETERIA	Cafeterias	-	148 (2049 SF)	7.5 CFMPERSON 0.18 CFM/SF	0.8	1849	1850	1
	CALCULATED OUTSIDE/MAKEUP AIR FOR SYSTEM TOTAL							1849	1850
REMARKS:									
1. OCCUPANCY IS ESTIMATED BY THE QUANTITY OF SEATS EXPECTED IN THE SPACE									

PLOT DATE: December 21, 2022 - 2:28pm

FILE: N:\Edgemont School District\Seely Place Elementary Phase 1\ACAD\Mechanical\SPES_M300_400_Addendum 2.dwg



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S.E.D. CONTROL NUMBER:
GREENVILLE ELEMENTARY SCHOOL
66-04-06-03-0-005-021
SEELY PLACE ELEMENTARY SCHOOL
66-04-06-03-0-001-019

PROJECT
EDGEMONT SCHOOL DISTRICT
GREENVILLE ELEMENTARY SCHOOL
SEELY PLACE ELEMENTARY SCHOOL
PHASE 1 - HVAC & CAFETERIA
DRAWING TITLE
MECHANICAL PIPING DIAGRAMS

1-06-2023	BID
DATE	ISSUED TO
SHEET SIZE 30"x42"	DRAWING NO. SPES M400
SCALE AS NOTED	FILE NO. 21434.01
DRAWN BY LFG	