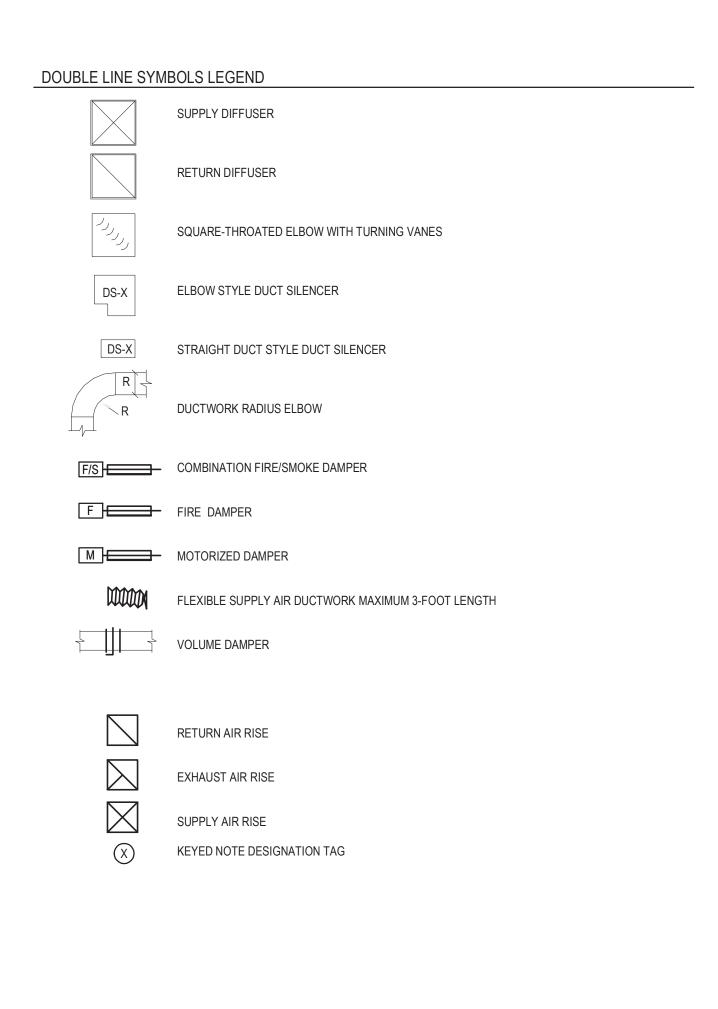
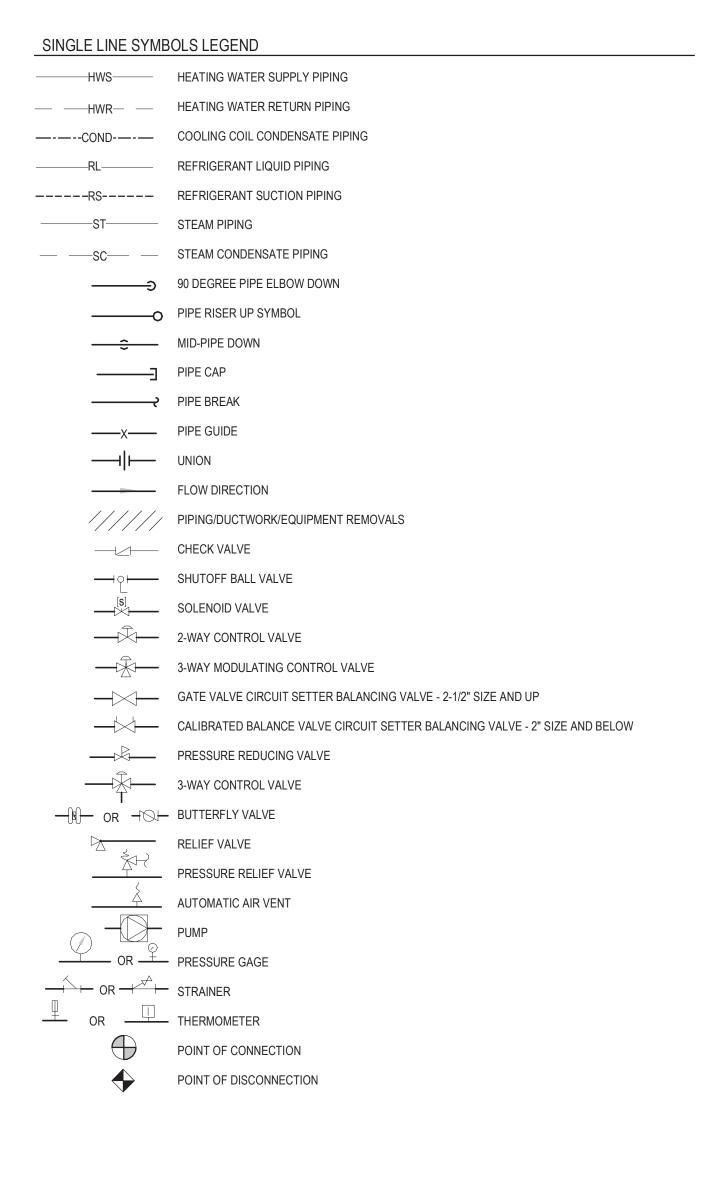


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**Quest Environmental Solutions** 1376 Route 9 Wappingers Falls, NY 12590 845.298.6251 www.qualityenv.com

**Construction Manager** One Penn Plaza 54th Floor, Suite 5420 New York, NY 10119 646.908.6550 www.jacobs.com





# NUFSD **PROJECTS**

■ SED#50-01-08-03-0-003-035 (HIGH SCHOOL) ☐ SED#50-01-08-03-0-004-020 (BARR MIDDLE SCHOOL)

> Nanuet, NY 10954 Barr Middle School 50 Blauvelt Rd #1

103 Church St

Nanuet, NY 10954

REVISIONS **ISSUED:** BID SET ISSUANCE

**DATE:** 06/06/2023

**SCALE**: 12" = 1'-0" SHEET NAME: HVAC SYMBOLS, LEGENDS AND **ABBREVIATIONS** SHEET NUMBER:

HS-M001

PROJECT NUMBER: 2111002.00 COPYRIGHT © 2014 KSQ ARCHITECTS, PC

**ARCHITECT** HEATING WATER RADIATION SCHEDULE UNIT HEATER SCHEDULE . PROVIDE WITH SAME END SERIES PIPING CONNECTIONS (SUPPLY AND RETURN CONNECTIONS ON SAME SIDE OF RADIATOR) 2. PROVIDE WITH OPPOSITE END SERIES PIPING CONNECTIONS (SUPPLY AND RETURN CONNECTIONS ON OPPOSITE SIDES OF RADIATOR). 3. EXPOSED CEILING MOUNTED PANEL, PROVIDE WITH THREADED ROD, NUTS, AND CEILING SUPPORTS FOR MOUNTING. CFM RPM VOLTS PH WATTS LOCATION CAPACITY TEMP EWT | TEMP LWT | WPD (FT) | GPM MANUFACTURER AND MODEL **FLOW RATE** FINS PER DESIGN MFG. CAPACITY (BTU/HR AVERAGE MECH 240 (BASEMENT) 16 8,030 Btu/h (GPM) HEIGHT SIZE DEPTH PER LINEAL FOOT) WATER TEMP. SIZE LENGTH PRESSURE DROP FOOT AND MODEL 799 | 175.0 °F | 65 °F | 26.1 in 1.6 in 0.48 3' - 0" 0.01 Feet 170.0 °F 65 °F 20.3 in 5.0 in 2.96 10' - 0" 0.82 Feet 32 RUNTAL R3F-7 0.50 170.0 °F 65 °F 29.0 in 2.0 in 4' - 0" RUNTAL RV-10 HEATING COIL SCHEDULE www.ksq.design 1. FIN MATERIAL SHALL BE ALUMINUM, COPPER TUBE, 0.020" THICK. AIR SEPARATOR SCHEDULE 2. FIN MATERIAL SHALL BE ALUMINUM, COPPER TUBE, 0.016" THICK. BASIS OF DESIGN MFG. AND MODEL REMARKS |PRESSURE DROP| TEMPERATURE | TEMPERATURE | AIR PRESSURE DIAMETER HEIGHT FACE VELOCITY | COIL FINS PER FOOT | COIL ROWS BASIS OF DESIGN MFG. AND MODEL REMARKS GPM PRESSURE DROP WEIGHT SIZE HEIGHT SIZE LENGTH EAT HEATING CENTRIFUGAL STYLE 18 in 44 in 500 GPM 0.80 Feet WATER 150 °F 28.5 GPM 16.40 Feet 8.0 °F 94.9 °F 4,500 CFM 29 in 54 in 427,844 Btu/h 0.430 in-wg 3.00 gal 303,660 Btu/h 50.0 °F 90.0 °F 150 °F 20.23 GPM 2.25 Feet 0.105 in-wg 0.147 in-wg 400,180 Btu/h 150 °F 26.66 GPM 2.05 Feet 8.0 °F 90.0 °F **EXPANSION TANK SCHEDULE** 1. PRE-CHARGE EXPANSION TANKS TO 19 PSIG AIR PRESSURE SETTING CAPACITY MIN MAX MIN MAX
TEMP TEMP PRESSURE PRESSURE BASIS OF DESIGN MFG. AND MODEL REMARKS DIAMETER | HEIGHT 35 psig BELL AND GOSSETT B800 BLADDER 32 in 76 in 211 gal 40 °F 200 °F 19 psig 211 gal 40 °F 200 °F 19 psig **CONVECTOR SCHEDULE** I.CAPACITY BASED ON EWT = 180 DEG F, 68 DEG ENTERING AIR TEMP DIFFUSER, REGISTER AND GRILLE SCHEDULE 2. PROVIDE CONVECTOR HEATING ELEMENTS WITHIN EXISTING IN-WALL CONVECTOR UNIT CAVITY. CONVECTOR CAVITY AND FRONT, REMOVABLE LOUVERED INLET/OUTLET PANEL TO BE REUSED. WATER BASIS OF DESIGN MFG. AND . PROVIDE WITH COATED STEEL OPPOSED BLADE DAMPER. FLUID FLOW | PRESSURE DROP 2. THE DIFFUSER BACK PAN SHALL BE EXTERNALLY INSULATED WITH A MOLDED HEAVY DUTY FOIL/SCRIM VAPOR BARRIER WITH AN R-VALUE OF SIX. THE INSULATION SHALL MEET THE REQUIREMENTS OF UL 181 AND NFPA 90A. LLY RECESSED WALL MOUNTED 6,764 Btu/h JLLY RECESSED WALL MOUNTED 6,764 Btu/h WATER STERLING BASIS OF DESIGN MANUFACTURER AND FULLY RECESSED WALL MOUNTED 6,764 Btu/h STERLING MATERIAL CONNECTION MOUNTING MODEL DESCRIPTION/PATTERN STERLING FULLY RECESSED WALL MOUNTED 6,764 Btu/h WATER FULLY RECESSED WALL MOUNTED 6,764 Btu/h WATER 170 °F STERLING 45° DEFLECTION AND 3/4 IN. BLADE SPACING PRICE 530 45° DEFLECTION AND 3/4 IN. BLADE SPACING PRICE 53 FULLY EXPOSED WALL MOUNTED | 1,913 Btu/h | WATER SURFACE SPIRAL DUCT MOUNTED, DOUBLE DEFLECTION, 3/4" BLADE SPACING SUPPLY REGISTER FULLY EXPOSED WALL MOUNTED 1,913 Btu/h WATER SPIRAL DUCT EXTRUDED ALUMINUM PRICE SDGE STERLING SW-A SPIRAL DUCT MOUNTED, DOUBLE DEFLECTION, 3/4" BLADE SPACING SUPPLY REGISTER 16"x4" SPIRAL DUCT EXTRUDED ALUMINUM PRICE SDGE FULLY EXPOSED WALL MOUNTED | 1,913 Btu/h | WATER STERLING SW-A 170 °F 20 °F 0.307 GPM 0.071 FT 19-3/4"x19-3/4" 10"ø PRICE SMD FREE STANDING ENCLOSURE 3,073 Btu/h WATER STERLING SFG-A Modular Louvered Face Diffuser SURFACE EXPOSED WALL MOUNTED 4,297 Btu/h WATER STERLING W-A www.jacobs.com PUMP SCHEDULE 1. PUMP TO BE CONTROLLED BY A VARIABLE FREQUENCY DRIVE (VFD). SEE ELECTRICAL DRAWINGS FOR LOCATION. VFD TO BE PROVIDED BY ELECTRCAL CONTRACT. 2. PUMP SHALL HAVE AN ECM MOTOR. **DUCT SILENCER SCHEDULE** IMPELLER DISCHARGE **DUTY POINT** 1. SHALL BE A STRAIGHT DISSIPATIVE SILENCER. ELECTRICAL ELECTRICAL BRAKE NOL HP VOLTS PH REMARKS BASIS OF DESIGN MFG. AND MODEL TEMP DIAMETER EFFICIENCY 2. SHALL BE A RECTANGULAR, ELBOW, DISSIPATIVE SILENCER. (IN. X IN.) 3. SHALL BE A ROUND DISSIPATIVE SILENCER P-HS-3 SPLIT COUPLED INLINE CENTRIFUGAL PUMP 500.00 GPM 85 ft 1.675 11.000 in 4"x4" 180 °F WATER 14.90 19.1 20 208 3 BELL AND GOSSETT e-80SC 4x4x11B OCTAVE BAND DYNAMIC INSERTION LOSS (dB) P-HS-4 | SPLIT COUPLED INLINE CENTRIFUGAL PUMP | 500.00 GPM | 85 ft | 1.675 | 11.000 in | 4"x4" | 180 °F BELL AND GOSSETT e-80SC 4x4x11B WATER BASIS OF DESIGN MFG. AND LENGTH | HEIGHT | WIDTH | SIZE DIAMETER | AIRFLOW VELOCITY LEG A LEG B DROP Description 63 Hz | 125 Hz | 250 Hz | 500 Hz | 1000 Hz | 2000 Hz | 4000 Hz | 8000 Hz | High Efficiency Large Wet Rotor Circulator with 26.66 GPM 20 ft 3,408 BELL AND GOSSETT Ecocirc XL Ecocirc XL 55-45 Electronically Commutated Motor Circular Medium Velocity - Absorptive Silencer High Efficiency Large Wet Rotor Circulator with 28.50 GPM 40 ft 2,791 BELL AND GOSSETT Ecocirc XL Ecocirc XL 65-130 2,620 CFM | 1,201 FPM | 0.09 Circular Medium Velocity - Absorptive Silencer Electronically Commutated Motor 45" 5,650 CFM -1,130 FPM 0.08 Elbow Medium Velocity - Absorptive Silencer 7 12 20 26 32 29 24 21 Price Industries FRM54/3B Flhow Medium Velocity - Absorptive Silencer Rectangular High Velocity - Absorptive Silencer AIR COOLED CONDENSING UNIT SCHEDULE 1. PROVIDE WITH 2 REFRIGERANT CIRCUITS, BOTH WITH HOT GAS BYPASS CIRCUIT TEES, LOW AMBIENT CONTROL DOWN TO 45 DEGREES AND 4 STEPS OF CAPACITY CONTROL. 2. PROVIDE WITH BUILT-IN HAIL PROTECTION, THROU-THE-DOOR DISCONNECT SWITCH, FIELD POWERED GFI RECEPTABLE AND COMPRESSOR SOUND BLANKETS. TOTAL **OPERATING** BASIS OF DESIGN MFG. CONDENSATE PUMP SCHEDULE REMARKS TEMPERATURE QUANTITY OF SUCTION CAPACITY CONDENSER | RCOIL | COIL FINS/IN **FLA PER** WEIGHT VOLTS | PH | MCA | MROPD **COMPRESSOR TYPE** AND MODEL DB COMPRESSORS ows **TEMPERATURE** FANS COMPRESSOR R410A DAIKIN RCS045D BASIS OF DESIGN MFG. AND RPM DISCHARGE CAPACITY SQ. **PRESSURE** CAPACITY HP VOLTS PH MODEL FT. EDR (IN. X IN.) 30,000 | 45.0 GPM | STEAM CONDENSATE DUPLEX STEEL CONDENSATE UNIT 40 psig 45.0 gal SHELL AND TUBE HEAT EXCHANGER SCHEDULE 1. TUBE MATERIAL SHALL BE COPPER. SHELL MATERIAL SHALL BE STEEL. HEAD MATERIAL SHALL BE CAST IRON. HIGH TEMPERATURE SIDE - SHEL **TOTAL HEAT** BASIS OF DESIGN MFG. AND SURFACE AREA FLOW RATE LOCATION **EXCHANGED** PRESSURE PRESSURE INLET EWT | LWT | (SQUARE FEET) FLUID | STEAM INLET (POUNDS PER DROP DROP DIAMETER | BUNDLE LENGTH | PRESSURE HOUR) TEMPERATURE 4,883.33 14 in 70 in STEAM 5 psig 5,050.9 | 226.4 °F | 0.64 psi | WATER | 500 | 1.330 psi | 160 °F | 180 °F | 148.3 | BELL AND GOSSETT QSU-145-2 | **FAN SCHEDULE** CABINET UNIT HEATER SCHEDULE 1.PROVIDE FAN WITH 16" HIGH ROOF CURB, ELECTRICALLY COMMUTATED MOTOR, MOTORIZED DAMPER AND FAN SPEED POTENTIOMETER TO SET FAN SPEED MANUALLY. 1. PROVIDE WITH UNIT MOUNTED DISCONNECT SWITCH AND ELECTRICALLY COMMUTATED FAN MOTOR. 2.PROVIDE FAN WITH INLET SAFETY GUARD FOR OPEN-ENDED AIR INLET CONFIGURATION. PROVIDE FAN WITH FLOOR ISOLATION RAILS AND FLOOR MOUNTED HOUSED SPRING ISOLATORS CAPABLE OF 2" DEFLECTION. FAN SHALL BE DELIVERED IN MULTIPLE PIECES WITH THE MOTOR PEDESTAL SPLIT FROM THE FAN SCROLL VERTICALLY TO ALLOW FOR DELIVERY TO INSTALLATION LOCATION WITHIN THE MOTOR PEDESTAL SPLIT FROM THE FAN SCROLL VERTICALLY TO ALLOW FOR DELIVERY TO INSTALLATION LOCATION WITHIN THE MOTOR PEDESTAL SPLIT FROM THE FAN SCROLL VERTICALLY TO ALLOW FOR DELIVERY TO INSTALLATION LOCATION WITHIN THE MOTOR PEDESTAL SPLIT FROM THE FAN SCROLL VERTICALLY TO ALLOW FOR DELIVERY TO INSTALLATION LOCATION WITHIN THE MOTOR PEDESTAL SPLIT FROM THE FAN SCROLL VERTICALLY TO ALLOW FOR DELIVERY TO INSTALLATION LOCATION WITHIN THE MOTOR PEDESTAL SPLIT FROM THE FAN SCROLL VERTICALLY TO ALLOW FOR DELIVERY TO INSTALLATION LOCATION WITHIN THE MOTOR PEDESTAL SPLIT FROM THE FAN SCROLL VERTICALLY TO ALLOW FOR DELIVERY TO INSTALLATION LOCATION WITHIN THE MOTOR PEDESTAL SPLIT FROM THE FAN SCROLL VERTICALLY TO ALLOW FOR DELIVERY TO INSTALLATION LOCATION WITHIN THE MOTOR PEDESTAL SPLIT FROM THE FAN SCROLL VERTICALLY TO ALLOW FOR DELIVERY TO INSTALLATION LOCATION WITHIN THE MOTOR PEDESTAL SPLIT FROM THE FAN SCROLL VERTICALLY TO ALLOW FOR DELIVERY TO INSTALLATION LOCATION WITHIN THE MOTOR PEDESTAL SPLIT FROM THE FAN SCROLL VERTICALLY TO ALLOW FOR DELIVERY TO ALLOW FOR DELIVERY TO ALLOW FOR THE FAN SCROLL VERTICALLY TO ALLOW FOR THE FAN SCROLL V FAN ROOM MEZZANINE FLOOR EXISTING DOOR OPENING. THE FAN SHALL BE INSTALLED FINAL LOCATION WITH COORDINATION FROM MANUFACTURER'S REPRESENTATIVE. 3.FAN TO BE OPERATED VIA A VARIABLE FREQUENCY DRIVE. PROVIDE FAN WITH 2" DEFLECTION SPRING ISOLATORS. CAPACITY (MBH) TEMP EWT TEMP LWT WPD (FT) GPM MANUFACTURER AND REMARKS LOCATION RPM VOLTS PH MODEL STATIC PRESSURE **IMPELLER** SOUND LEVEL TOTAL SYSTEM BASIS OF DESIGN MFG. AND MODEL LOCATION VFD SPEED RPM BHP HP WATTS VOLTS PH CUH-HS-1 BASEMENT VESTIBULE RECESSED CEILING, BOTTOM INLET/OUTLET **EFFICIENCY** 1/15 **I** (IN WC) DIAMETER SETTING WEIGHT (dBA) BASEMENT STORAGE ROOM CEILING SURFACE MOUNTED, BOTTOM INLET/FRONT OUTLET 230 1, COOK 165SQND17D 148 lb ART/WOODSHOP/DARK ROOM/LOCKER ROOM EXHAUST STORAGE 47 CEILING SURFACE MOUNTED, BOTTOM INLET/FRONT OUTLET 630 1,050 115 1 49.8 GYM PENTHOUSE FAN ROOM GYM RETURN/RELIEF AIR COOK 330 CPS-A Airfoil Utility/Vent Set - Steel Wheel HORIZONTAL BLOWER COIL AIR HANDLING UNIT SCHEDULE 1. PROVIDE UNIT WITH MIXING BOX WITH REAR OUTDOOR AIR OPENING AND BOTTOM INLET RETURN AIR OPENING ELECTRICALLY COMMUTATED SUPPLY FAN DATA DIRECT EXPANSION COOLING COIL - REFRIGERANT R410A HEATING COIL DATA FILTER DATA DIMENSIONS AND WEIGH LEAVING AIR PRESSURE DROP BASIS OF DESIGN TOTAL TOTAL STATIC | STATIC ENTERING AIR | ENTERING AIR LEAVING AIR MANUFACTURER | SUPPLY | OUTSIDE | PRESSURE (IN | PRESSURE | AIR PRESSURE TEMPERATURE | TEMPERATURE | TEMPERATURE | TEMPERATURE (FEET OF | COIL | TEMPERATURE | TEMPERATURE | AIR PRESSURE | TEMPERATURE | TEMPERATURE SIZE **OPERATING** (RPM) TOTAL CAPACITY CAPACITY AND MODEL NUMBER | AIRFLOW | AIRFLOW | WC) (IN WC) DROP FINS/IN ROWS (WB) TOTAL CAPACITY | FLUID TYPE | (GPM) WATER) ROWS DROP LWT | VOLTAGE | PHASE | FREQUENCY | FLA | MCA | SIZE | HORSEPOWER | (DB) 181,284 Btu/h WATER 8.00 GPM 1.95 2 48 °F 114.3 °F 0.180 in-wg 180 °F 133.8 °F 208 V 3 60 Hz 0.65 in-wg 26 in 72 in 49 in 591.0 lb BC-HS-2 DAIKIN BCHE0301 2,620 CFM 915 CFM 1.84 100.9 °F 114.8 °F | 208 V | 3 | 60 Hz 0.190 in-wg 0.65 in-wg 26 in 72 in 49 in INDOOR AIR HANDLING UNIT SCHEDULE 1. UNIT SHALL INCLUDE 6" HIGH FORMED CHANNEL BASE. UNIT SHALL INCLUDE MAXIMUM 32" LONG SECTIONS; 30" LONG MIXING BOX W/ TOP OA INTAKE OPENING AND DAMPER, 12" LONG SUPPLY FAN ARRAY LONG SUPPLY FAN ARRAY 1. UNIT SHALL INCLUDE 6" HIGH FORMED CHANNEL BASE. UNIT SHALL INCLUDE MAXIMUM 32" LONG SECTIONS; 30" LONG MIXING BOX W/ TOP OA INTAKE OPENING AND DAMPER, 12" LONG SECTIONS, 30" LONG SECTIONS, 30" LONG SECTIONS, 30" LONG MIXING BOX W/ TOP OA INTAKE OPENING AND DAMPER, 12" LONG SUPPLY FAN ARRAY LONG SUPPLY FAN ARRAY LONG SUPPLY FAN ARRAY LONG SUPPLY FAN ARRAY LONG SECTIONS, 30" LONG MIXING BOX W/ TOP OA INTAKE OPENING AND DAMPER, 12" LONG SUPPLY FAN ARRAY SECTION AND 32" LONG PLENUM SECTION WITH TOP OUTLET. 2. THE FAN ARRAY SHALL UTILIZE 4 ELECTRICALLY COMMUTATED MOTOR FANS (WITH VFD'S BUILT INTO THE FAN HUB) WIRED TO A SINGLE 0-10 VDC SYSTEM SHALL PROVIDE A 0-10 VDC SIGNAL TO THE UNIT MOUNTED CONTROL BOX TO VARY FAN SPEED OUTPUT 3. PROVIDE ACCESS DOORS AT THE FOLLOWING SECTIONS: MIXING BOX (26" WIDE x 68" HIGH), FILTER SECTION (8" WIDE x 68" HIGH), DX COOLING COIL SECTION (12" WIDE x 62" HIGH), PLENUM SECTION (24" WIDE x 68" HIGH) **DIRECT EXPANSION COOLING COIL** FAN WHEEL TOTAL AIR OUTSIDE AIR HEATING COIL | HEATING COIL NUMBER OF | PLENUM | SUPPLY EXTERNAL STATIC | STATIC | OPERATING HEATING | HEATING COIL | HEATING COIL | HEATING COIL AIR FACE FACE | DEPTH | CLEAN OUTSIDE AIR RATE MIXING BOX APD APD QUANTITY FAN (PER FAN) DIAMETER PRESSURE (IN WC) | PRESSURE | SPEED | MOTOR | PER | PER | AREA SIZE APD CAPACITY | TEMPERATURE | TEMPERATURE | COIL APD VEL. | TEMPERATURE | TEMPERATURE | COIL FLOW | WPD | COOLING COOLING PRESSURE | VELOCITY | REFRIGERANT | REFRIGERANT | 
 (RPM)
 DRIVE
 FAN
 FAN
 VOLTS
 PHASE
 MCA
 MOP
 HEATING

 1,825
 Direct
 2.56
 4.8
 208 V
 3
 46.8
 50
 692,526 Btu/h

 LWT
 RATE
 (FT-WG)
 CAPACITY
 EAT DB
 EAT DB
 LAT DB
 LAT DB
 DROP
 (FPM)
 ROWS
 REFRIGERANT
 CIRCUITS

 149.8 °F
 45.9 GPM
 2.60
 454,298 Btu/h
 342,325 Btu/h
 79.2 °F
 65.3 °F
 56.8 °F
 54.6 °F
 0.63 in-wg
 501
 4
 R410A
 2
 MFGMODELLOCATIONAREA SERVEDFAN TYPEVOLUMERATEBOX APDAPDQUANTITIONDAIKINCAH030GDQMGYMGYMNASIUM 49AXIAL DISCHARGE,<br/>AXIAL DISCHARG 
 LAT
 ROWS
 FINS/IN
 (IN-WG)
 (FPM)

 100.2 °F
 2
 8
 0.18
 525
 (IN WC) EAT EWT WEIGHT (SF) (INCHES) (IN-WG) L 58 lb APPLIED MEZZANINE AIRFOIL BLADES **ROOFTOP UNIT SCHEDULE** 1. PROVIDE UNIT WITH FACTORY WIRED 115 VOLT CONVENIENCE OUTLET MAXIMUM DISCHARGE dB STAINLESS STEEL GAS HEAT SECTION FILTER SECTION AIRFLOW DATA **IDENTITY DATA ELECTRICAL - LOADS** DIRECT EXPANSION COOLING SYSTEM SECTION LEVELS BY OCTAVE BAND HVAC SCHEDULES RTU-HS-4 DAIKIN APPLIED DPS-016A 208 V 3 60 10 9.50 16A 208 V 3 60 1

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■ SED#50-01-08-03-0-003-035 (HIGH SCHOOL) ☐ SED#50-01-08-03-0-004-020 (BARR MIDDLE SCHOOL)

> 103 Church St Nanuet, NY 10954

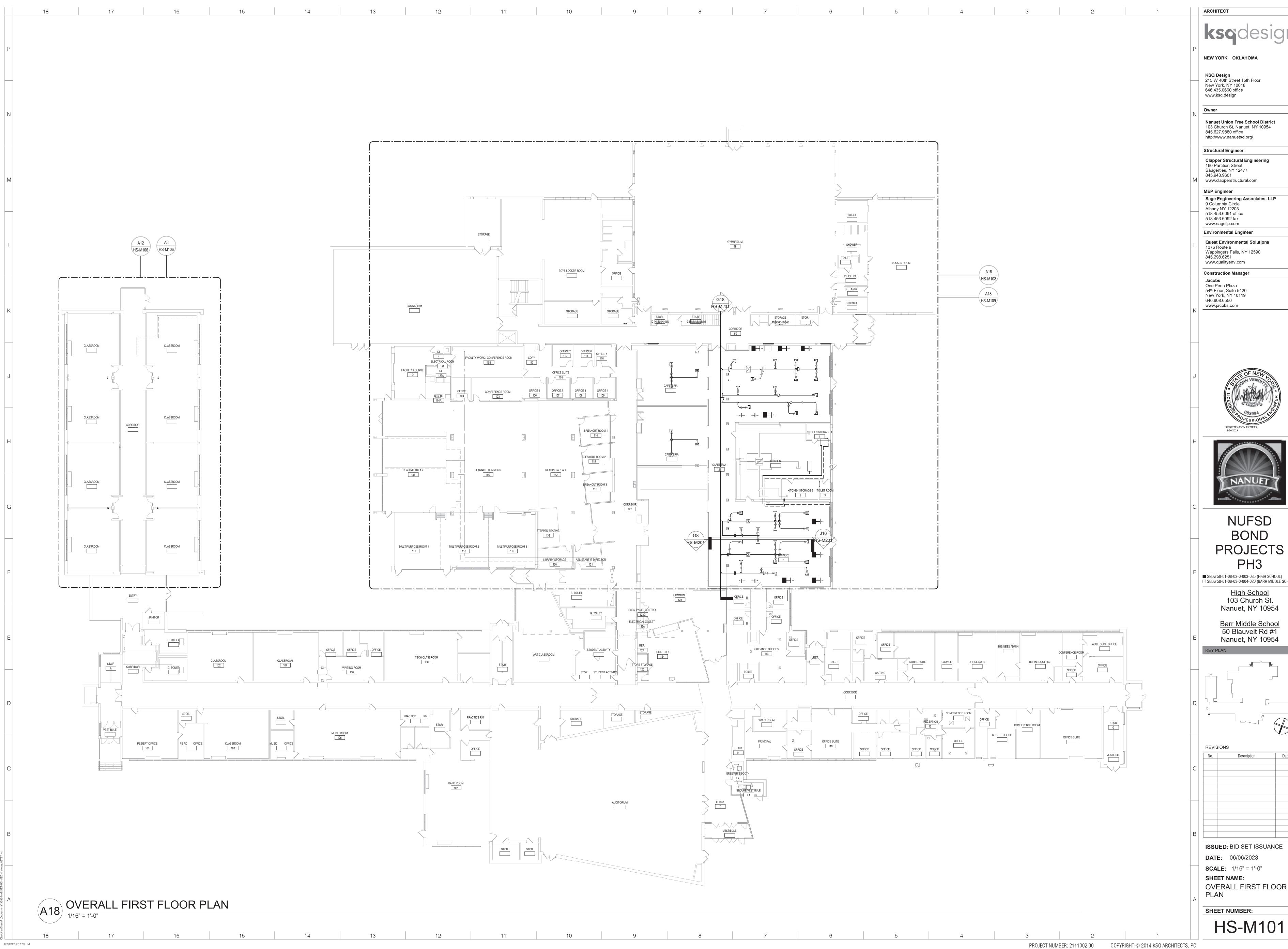
Barr Middle School 50 Blauvelt Rd #1 Nanuet, NY 10954

REVISIONS

**ISSUED:** BID SET ISSUANCE

**DATE:** 06/06/2023 SCALE: **SHEET NAME:** 

**SHEET NUMBER:** 



103 Church St, Nanuet, NY 10954

Clapper Structural Engineering

Sage Engineering Associates, LLP 9 Columbia Circle Albany NY 12203

**Quest Environmental Solutions** 

Wappingers Falls, NY 12590 845.298.6251





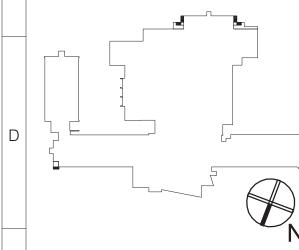
NUFSD BOND PROJECTS

■ SED#50-01-08-03-0-003-035 (HIGH SCH00L)

□ SED#50-01-08-03-0-004-020 (BARR MIDDLE SCH00L)

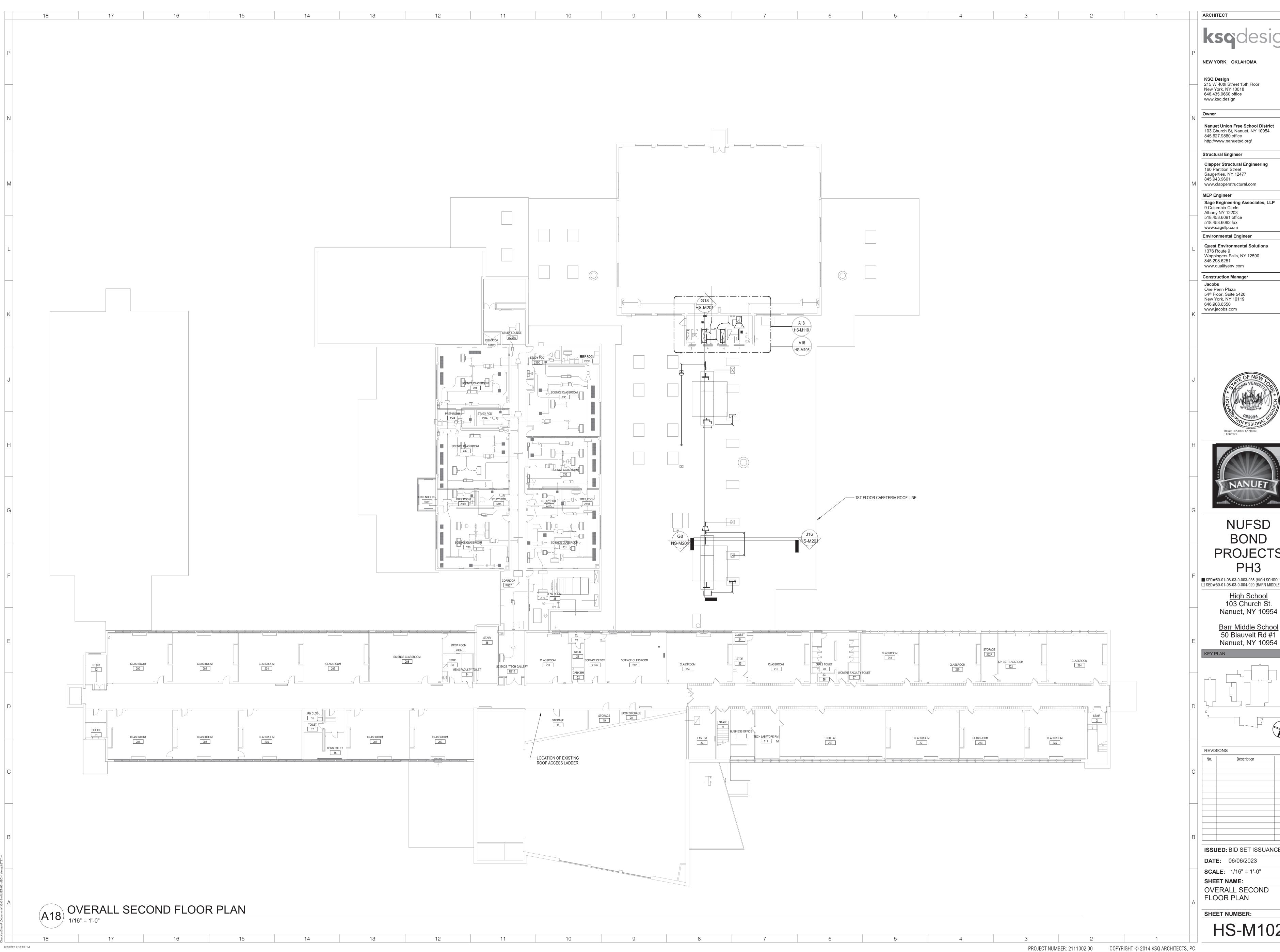
High School 103 Church St. Nanuet, NY 10954

Barr Middle School 50 Blauvelt Rd #1 Nanuet, NY 10954



**ISSUED:** BID SET ISSUANCE

**SCALE:** 1/16" = 1'-0" OVERALL FIRST FLOOR



Nanuet Union Free School District 103 Church St, Nanuet, NY 10954

Clapper Structural Engineering





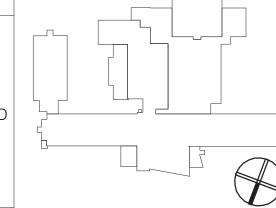
NUFSD BOND PROJECTS

■ SED#50-01-08-03-0-003-035 (HIGH SCH00L)

□ SED#50-01-08-03-0-004-020 (BARR MIDDLE SCH00L)

High School 103 Church St. Nanuet, NY 10954

Barr Middle School 50 Blauvelt Rd #1 Nanuet, NY 10954

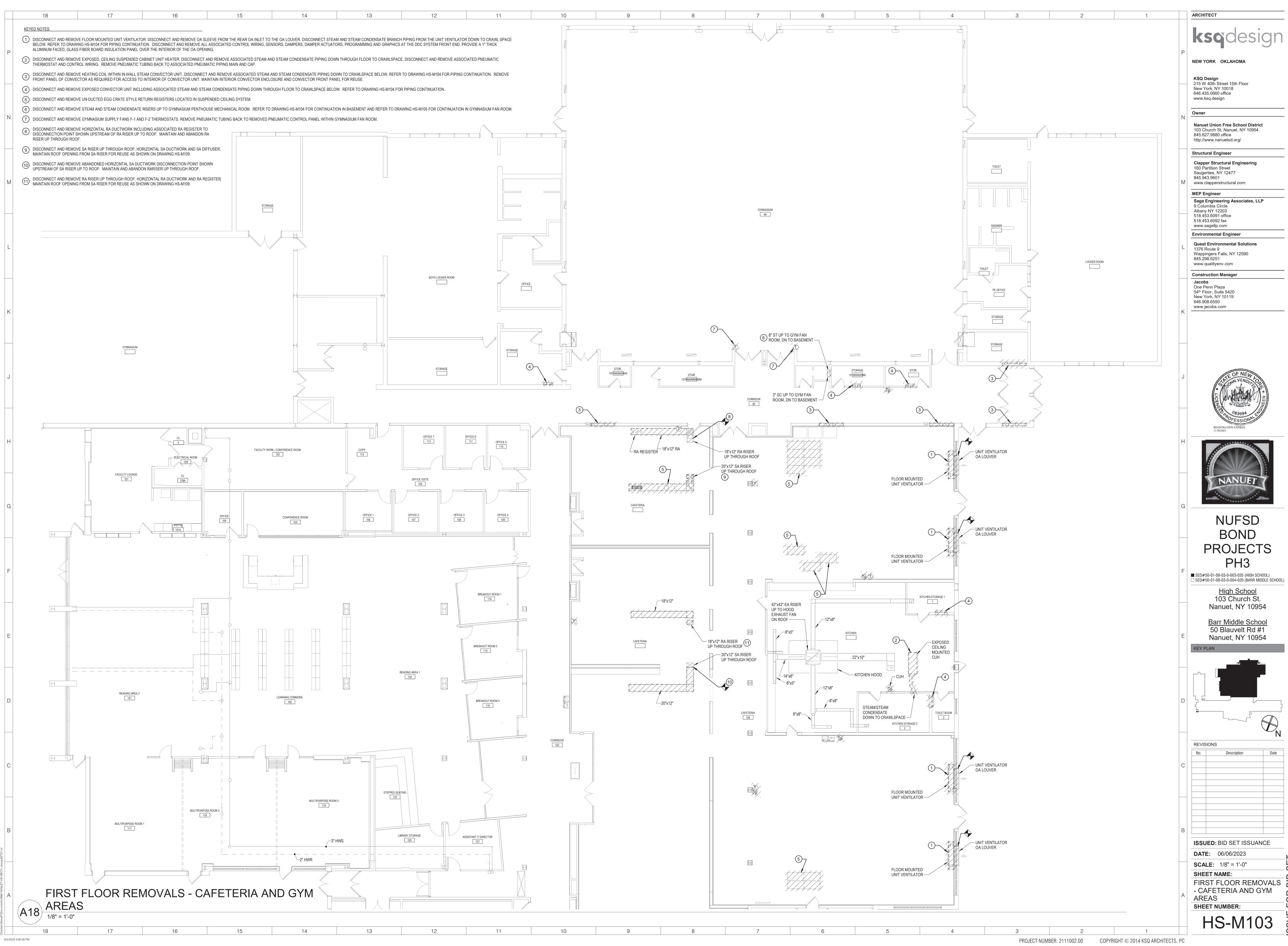


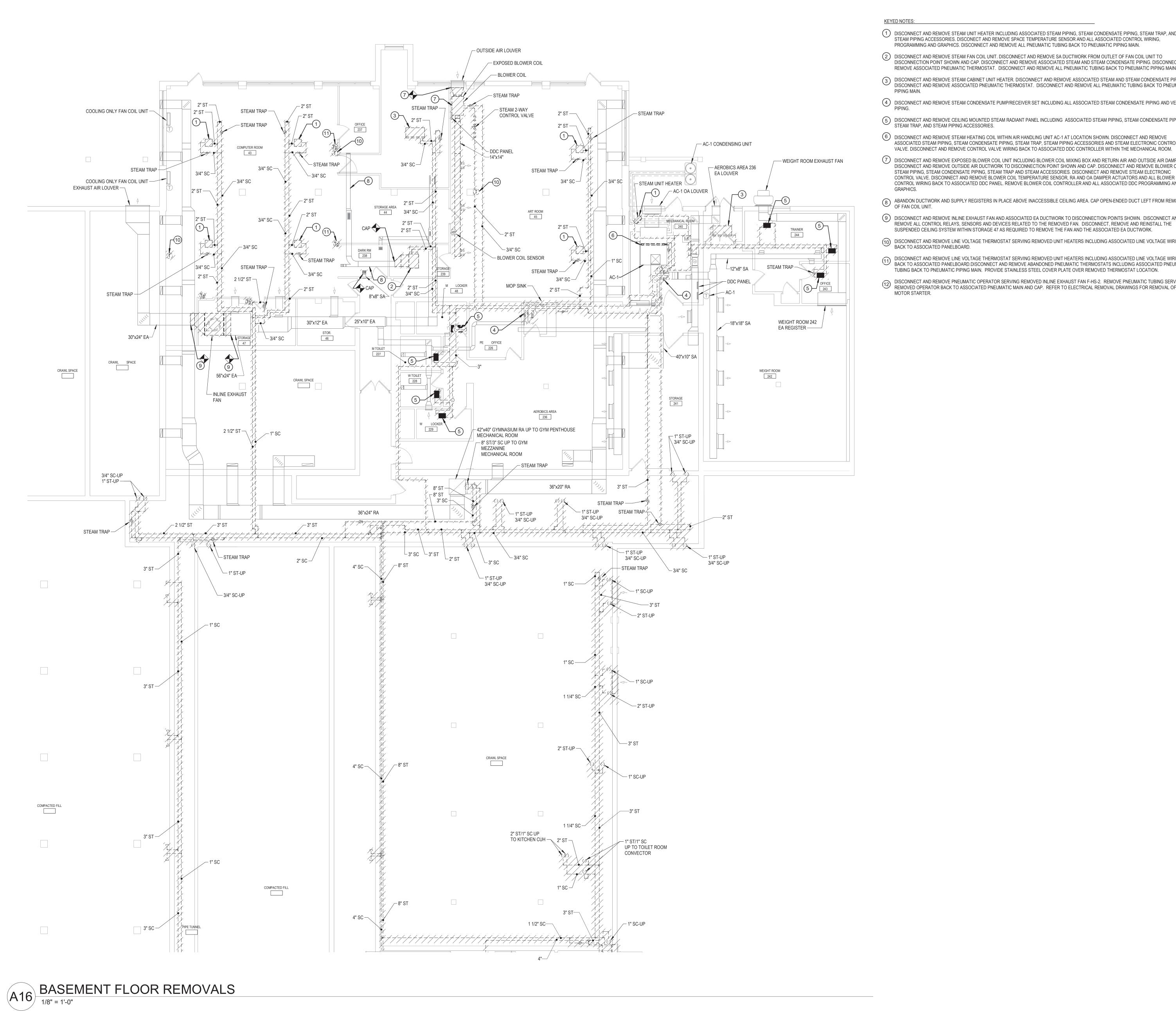
	IVO.	Description	ט

**ISSUED:** BID SET ISSUANCE

OVERALL SECOND

HS-M102





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- 1) DISCONNECT AND REMOVE STEAM UNIT HEATER INCLUDING ASSOCIATED STEAM PIPING, STEAM CONDENSATE PIPING, STEAM TRAP, AND STEAM PIPING ACCESSORIES. DISCONECT AND REMOVE SPACE TEMPERATURE SENSOR AND ALL ASSOCIATED CONTROL WIRING, PROGRAMMING AND GRAPHICS. DISCONNECT AND REMOVE ALL PNEUMATIC TUBING BACK TO PNEUMATIC PIPING MAIN.
- (2) DISCONNECT AND REMOVE STEAM FAN COIL UNIT. DISCONNECT AND REMOVE SA DUCTWORK FROM OUTLET OF FAN COIL UNIT TO DISCONNECTION POINT SHOWN AND CAP. DISCONNECT AND REMOVE ASSOCIATED STEAM AND STEAM CONDENSATE PIPING. DISCONNECT AND REMOVE ASSOCIATED PNEUMATIC THERMOSTAT. DISCONNECT AND REMOVE ALL PNEUMATIC TUBING BACK TO PNEUMATIC PIPING MAIN.
- (3) DISCONNECT AND REMOVE STEAM CABINET UNIT HEATER. DISCONNECT AND REMOVE ASSOCIATED STEAM AND STEAM CONDENSATE PIPING. DISCONNECT AND REMOVE ASSOCIATED PNEUMATIC THERMOSTAT. DISCONNECT AND REMOVE ALL PNEUMATIC TUBING BACK TO PNEUMATIC
- DISCONNECT AND REMOVE STEAM CONDENSATE PUMP/RECEIVER SET INCLUDING ALL ASSOCIATED STEAM CONDENSATE PIPING AND VENT
- DISCONNECT AND REMOVE CEILING MOUNTED STEAM RADIANT PANEL INCLUDING ASSOCIATED STEAM PIPING, STEAM CONDENSATE PIPING, STEAM TRAP, AND STEAM PIPING ACCESSORIES.
- (6) DISCONNECT AND REMOVE STEAM HEATING COIL WITHIN AIR HANDLING UNIT AC-1 AT LOCATION SHOWN. DISCONNECT AND REMOVE ASSOCIATED STEAM PIPING, STEAM CONDENSATE PIPING, STEAM TRAP, STEAM PIPING ACCESSORIES AND STEAM ELECTRONIC CONTROL
- 7 DISCONNECT AND REMOVE EXPOSED BLOWER COIL UNIT INCLUDING BLOWER COIL MIXING BOX AND RETURN AIR AND OUTSIDE AIR DAMPERS. DISCONNECT AND REMOVE OUTSIDE AIR DUCTWORK TO DISCONNECTION POINT SHOWN AND CAP. DISCONNECT AND REMOVE BLOWER COIL STEAM PIPING, STEAM CONDENSATE PIPING, STEAM TRAP AND STEAM ACCESSORIES. DISCONNECT AND REMOVE STEAM ELECTRONIC CONTROL VALVE. DISCONNECT AND REMOVE BLOWER COIL TEMPERATURE SENSOR, RA AND OA DAMPER ACTUATORS AND ALL BLOWER COIL CONTROL WIRING BACK TO ASSOCIATED DDC PANEL. REMOVE BLOWER COIL CONTROLLER AND ALL ASSOCIATED DDC PROGRAMMING AND
- ABANDON DUCTWORK AND SUPPLY REGISTERS IN PLACE ABOVE INACCESSIBLE CEILING AREA. CAP OPEN-ENDED DUCT LEFT FROM REMOVAL OF FAN COIL UNIT.
- 9 DISCONNECT AND REMOVE INLINE EXHAUST FAN AND ASSOCIATED EA DUCTWORK TO DISCONNECTION POINTS SHOWN. DISCONNECT AND REMOVE ALL CONTROL RELAYS, SENSORS AND DEVICES RELATED TO THE REMOVED FAN. DISCONNECT, REMOVE AND REINSTALL THE SUSPENDED CEILING SYSTEM WITHIN STORAGE 47 AS REQUIRED TO REMOVE THE FAN AND THE ASSOCIATED EA DUCTWORK.
- DISCONNECT AND REMOVE LINE VOLTAGE THERMOSTAT SERVING REMOVED UNIT HEATERS INCLUDING ASSOCIATED LINE VOLTAGE WIRING BACK TO ASSOCIATED PANELBOARD.
- DISCONNECT AND REMOVE LINE VOLTAGE THERMOSTAT SERVING REMOVED UNIT HEATERS INCLUDING ASSOCIATED LINE VOLTAGE WIRING BACK TO ASSOCIATED PANELBOARD.DISCONNECT AND REMOVE ABANDONED PNEUMATIC THERMOSTATS INCLUDING ASSOCIATED PNEUMATIC TUBING BACK TO PNEUMATIC PIPING MAIN. PROVIDE STAINLESS STEEL COVER PLATE OVER REMOVED THERMOSTAT LOCATION.
- DISCONNECT AND REMOVE PNEUMATIC OPERATOR SERVING REMOVED INLINE EXHAUST FAN F-HS-2. REMOVE PNEUMATIC TUBING SERVING REMOVED OPERATOR BACK TO ASSOCIATED PNEUMATIC MAIN AND CAP. REFER TO ELECTRICAL REMOVAL DRAWINGS FOR REMOVAL OF F-HS-2

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**ARCHITECT** 

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Owner

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### NUFSD BOND **PROJECTS** PH3

■ SED#50-01-08-03-0-003-035 (HIGH SCH00L)

□ SED#50-01-08-03-0-004-020 (BARR MIDDLE SCH00L)

High School 103 Church St. Nanuet, NY 10954

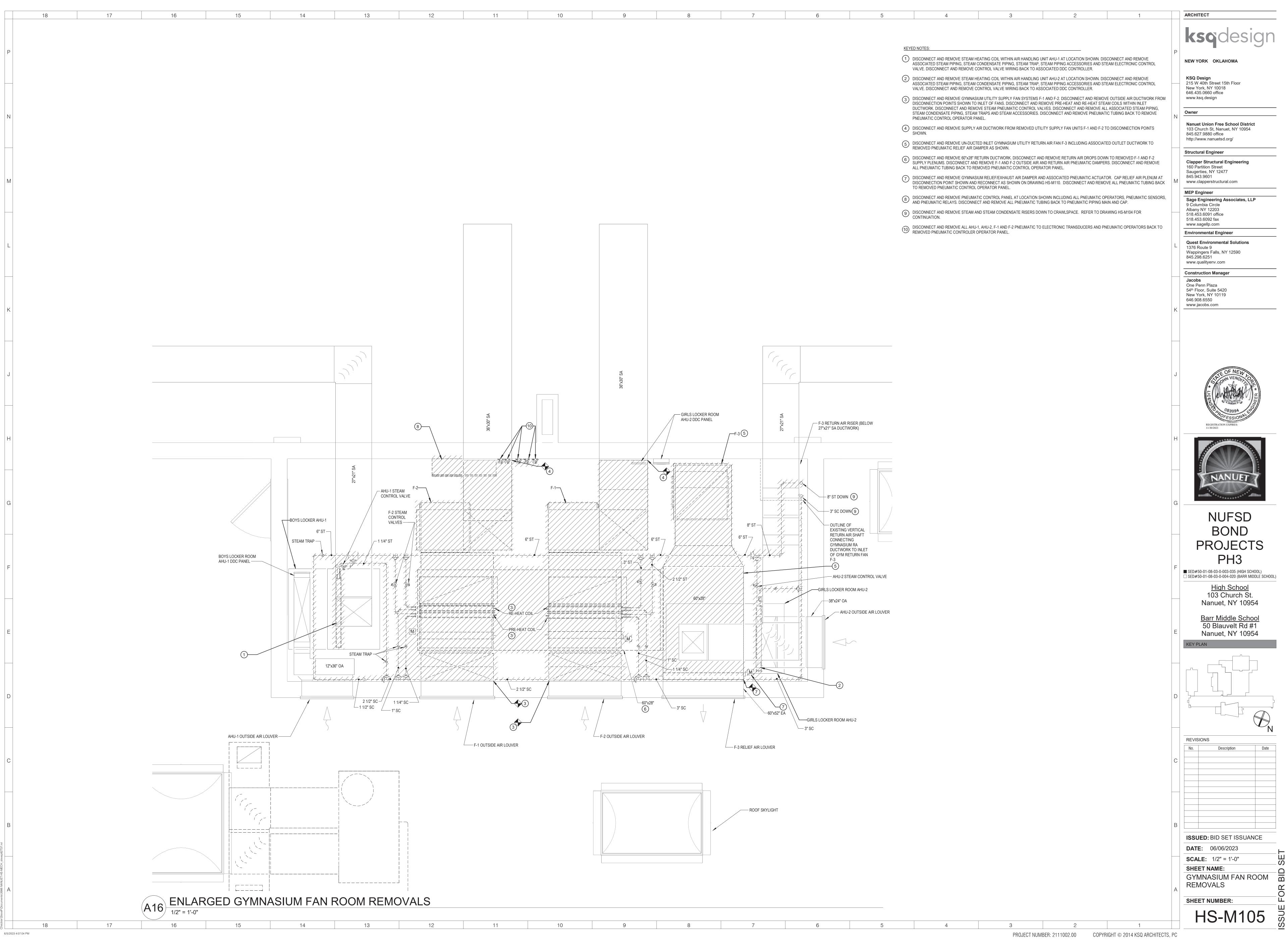
Barr Middle School 50 Blauvelt Rd #1 Nanuet, NY 10954

**ISSUED:** BID SET ISSUANCE

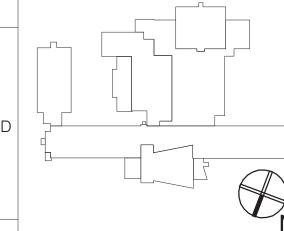
**DATE:** 06/06/2023 **SCALE:** 1/8" = 1'-0"

SHEET NAME: BASEMENT HVAC REMOVALS

SHEET NUMBER: HS-M104 S







**ARCHITECT** KEYED NOTES: 1) DISCONNECT AND REMOVE REMOTE SPACE TEMPERATURE SENSOR FOR THE EXISTING UNIT VENTILATOR. PROVIDE REPLACEMENT SPACE TEMPERATURE SENSOR AT LOCATION SHOWN AND UTILIZE FOR SPACE TEMPERATURE CONTROL OF THE UNIT VENTILATOR AS REQUIRED. PROVIDE CONTROL WIRING BETWEEN SENSOR AND UNIT VENTILATOR DDC CONTROLLER AS REQUIRED. DISCONNECT AND REMOVE FLOOR MOUNTED UNIT VENTILATOR INTREGRAL MICROTECH II CONTROLLER LOCATED WITHIN THE UNIT VENTILATOR ACCESS ENCLOSURE. DISCONNECT AND REMOVE ALL ASSOCIATED CONTROL WIRING BETWEEN CONTROLLER AND REMOVED SPACE THERMOSTAT AND BETWEEN CONTROLLER AND UNIT VENTILATOR SENSORS, RELAYS, DAMPER ACTUATORS, AND CONTROL VALVE AS REQUIRED. MAINTAIN UNIT VENTILATOR CONTROL VALVE, OA/RA DAMPER AND ACTUATOR, FACE&BYPASS DAMPER PROVIDE DDC SYSTEM EQUIPMENT CONTROLLER WITHIN THE EXISTING ACCESS ENCLOSURE AREA OF EXISTING FLOOR MOUNTED UNIT VENTILATOR AT LOCATION SHOWN. PROVIDE DDC CONTROL POINTS PER CONTROL DRAWING LOCATED ON A10/HS-M602. PROVIDE CONTROL WIRING FROM DDC CONTROLLER TO WALL MOUNTED SPACE TEMPERATURE SENSOR. PROVIDE CONTROL WIRING BETWEEN DDC CONTROLLER AND EXISTING UNIT VENTILATOR HEATING WATER CONTROL VALVE AS REQUIRED. PROVIDE CONTROL WIRING BETWEEN DDC CONTROLLER AND EXISTING UNIT VENTILATOR OA/RA DAMPER ACTUATOR AND FACE&BYPASS DAMPER ACTUATOR. PROVIDE SENSORS AS OUTLINED AND PROVIDE CONTROL WIRING TO ALLOW START/STOP OPERATION OF EXISTING UNIT VENTILATOR MECHANICAL COOLING SYSTEM. ③ UV-1— ③ UV-1— FIRST FLOOR PLAN - 2004 ADDITION

1/8" = 1'-0" FIRST FLOOR REMOVALS - 2004 ADDITION

1/8" = 1'-0" PROJECT NUMBER: 2111002.00 COPYRIGHT © 2014 KSQ ARCHITECTS, PC 6/5/2023 4:07:06 PM

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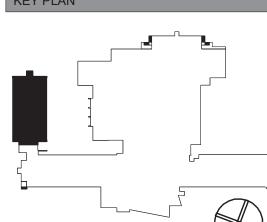
NUFSD BOND PROJECTS PH3

■ SED#50-01-08-03-0-003-035 (HIGH SCH00L)

□ SED#50-01-08-03-0-004-020 (BARR MIDDLE SCH00L)

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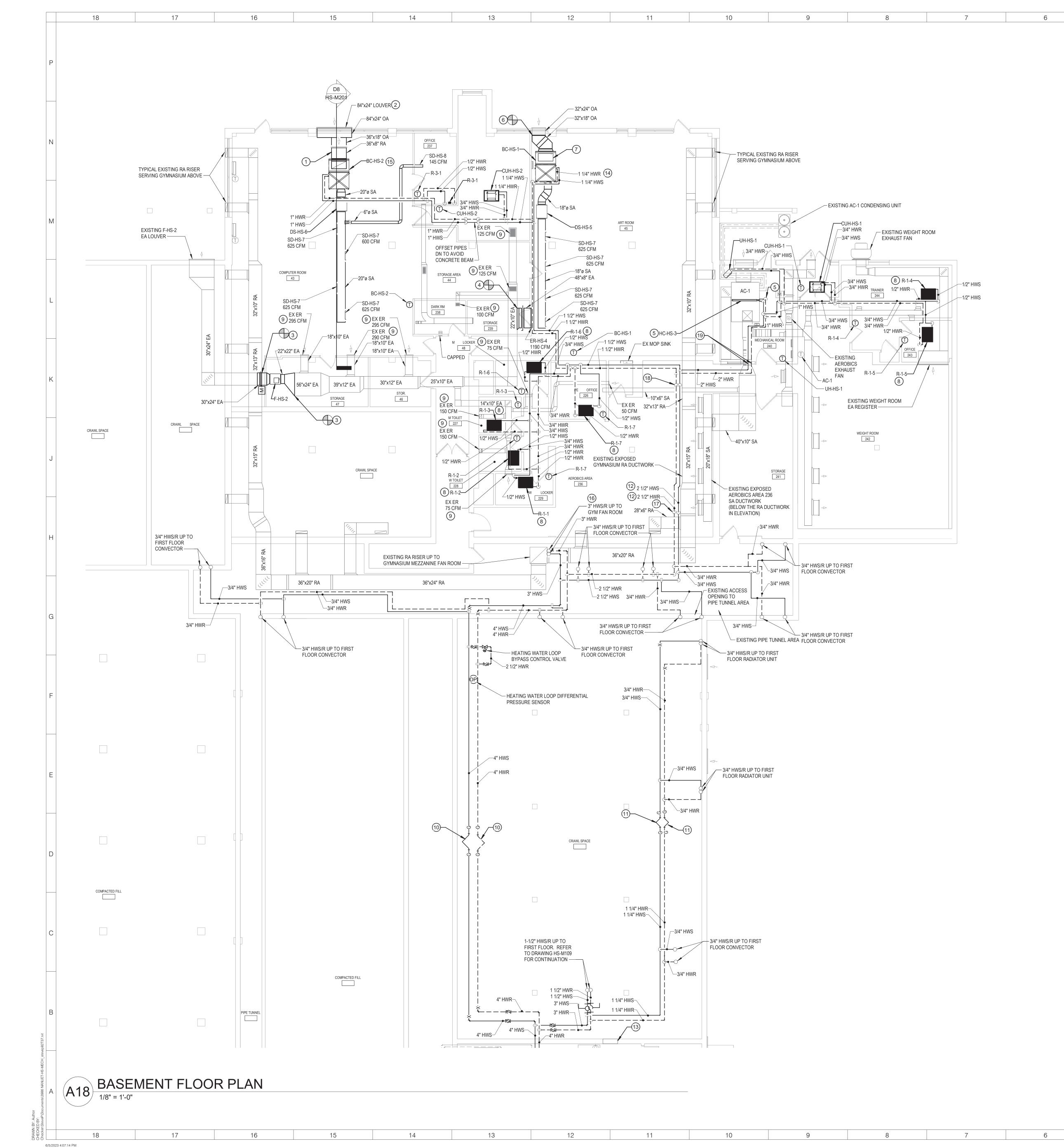


**ISSUED:** BID SET ISSUANCE

**DATE:** 06/06/2023 **SCALE:** 1/8" = 1'-0" SHEET NAME:

2004 ADDITION HVAC REMOVAL AND INSTALL PLANS SHEET NUMBER:

HS-M106



KEYED NOTES:

- (1) PROVIDE 36"x18" OUTSIDE AIR DUCTWORK TO REAR INLET OPENING ON BLOWER COIL BC-HS-2 MIXING BOX. PROVIDE 36"x18" RISER OUT OF TOP RA INLET ON BC-HS-2 MIXING BOX, THEN PROVIDE A TRANSITION ELBOW TO 36"x8" RA DUCTWORK. ROUTE 36"x8" RETURN AIR DUCT STACKED ABOVE 36"x18" OUTSIDE AIR DUCT AND TERMINATE OPEN-ENDED WITH 1/4" GALVANIZED WIRE MESH SCREEN.
- PROVIDE 84"x24" OUTSIDE AIR PLENUM CONNECTED TO 84"x24" LOUVER MOUNTED IN TOP OF EXISTING GLAZING SYSTEM PANEL AS OUTLINED ON THE ARCHITECTURAL DRAWINGS. ROUTE OA DUCTWORK FROM OA PLENUM TO REAR INLET MIXING BOX ON BC-HS-2 AS
- PROVIDE INLINE FAN F-HS-2 AT LOCATION SHOWN ABOVE SUSPENDED CEILING SYSTEM IN STORAGE ROOM 47. PROVIDE TRANSITIOINS FROM EXISTING EXHAUST AIR DUCTWORK TO INLET AND OUTLET CONNECTIONS ON F-HS-2 AS REQUIRED. CONNECT 30"x24" EXHAUST AIR DUCT TO EXISTING 30"x24" EXHAUST AIR DUCT AT OUTLET OF FAN. CONNECT 22"x22" TO 56"x24" TRANSITION DUCT FITTING TO EXISTING 56"x24" EXHAUST AIR DUCT AT INLET OF FAN AS REQUIRED. PROVIDE A MOTORIZED DAMPER AT OUTLET OF FAN IN EA DUCTWORK. DISCONNECT/REMOVE/REINSTALL SUSPENDED CEILING SYSTEM IN STORAGE 47 AS REQUIRED TO INSTALL FAN AND ASSOCIATED INLET AND
- (4) CONNECT 48"x8" EXHAUST AIR DUCT TO EXISTING 22"x10" EXHAUST AIR DUCT MAIN AT CONNECTION POINT SHOWN AND PROVIDE A WALL
- MOUNTED EA REGISTER WITHIN ART ROOM 45, MOUNTED ABOVE THE DOORWAY TO STORAGE ROOM 239. (5) PROVIDE A 59" WIDE x 33" HIGH HOT WATER HEATING COIL HC-HS-3 WITHIN EXISTING AIR HANDLER AC-1 HEATING COIL SECTION. AC-1 IS A

TRANE MODEL LPCAC14D HORIZONTAL AIR HANDLING UNIT. COORDINATE INSTALLATION OF THE HEATING COIL WITHIN THE EXISTING AIR

HANDLING UNIT HEATING COIL SECTION WITH THE LOCAL TRANE REPRESENTATIVE. PROVIDE 2" HWS/R DROPS DOWN TO THE HEATING COIL

- 6 CONNECT 32"x18" OUTSIDE AIR INTAKE DUCT TO EXISTING 32"x24" OUTSIDE AIR INTAKE DUCT AT CONNECTION POINT SHOWN. ROUTE 32"x18" OUTSIDE AIR DUCT TO REAR INLET ON BLOWER COIL BC-HS-1 MIXING BOX.
- (7) PROVIDE TOP INLET RA OPENING ON BC-HS-1 MIXING BOX.

INLET AND OUTLET CONNECTION POINTS.

OUTLET LOCATION ON BLOWER COIL.

- (8) PROVIDE EXPOSED CEILING MOUNTED RADIATOR UNITS AT LOCATIONS SHOWN SUPPORTED FROM FLOOR DECK ABOVE.
- 9 BALANCE EXISTING EA REGISTER TO AIRLFOW AMOUNTS SHOWN WITH INLINE EXHAUST FAN F-HS-2 OPERATING AT FULL AIRFLOW CAPACITY.
- PROVIDE 43.75" LONG x 18.875" WIDE V-TYPE, FLANGED EXPANSION LOOP AT LOCATIONS SHOWN ON THE 4" HWS/R MAINS. CAPABLE OF 3" +/MOVEMENT. PROVIDE PIPE GUIDES AND ANCHORS AS SHOWN INSTALLED PER THE MANUFACTURER'S INSTRUCTIONS. SUPPORT THE RETURN BEND OF THE LOOP PER THE MANUFACTURER'S INSTRUCTIONS.
- (11) PROVIDE 26.25" LONG x 12" WIDE V-TYPE, SWEAT CONNECTION EXPANSION LOOP AT LOCATIONS SHOWN ON THE 1-1/4" HWS/R MAINS. CAPABLE OF 3" +/- MOVEMENT. PROVIDE PIPE GUIDES AND ANCHORS AS SHOWN INSTALLED PER THE MANUFACTURER'S INSTRUCTIONS. SUPPORT THE RETURN BEND OF THE LOOP PER THE MANUFACTURER'S INSTRUCTIONS.
- ROUTE 2-1/2" HWS/R PIPING MAINS EXPOSED WITHIN AEROBICS AREA 236 PARALLEL IN HEIGHT WITH EXISTING EXPOSED RETURN DUCTWORK ROUTED NORTH-SOUTH THROUGH THE AERBOICS AREA, AND ABOVE THE EXPOSED SUPPLY AIR DUCTWORK SERVING THE AEROBICS AREA. PROVIDE PVC JACKETING OVER THE INSULATED 2-1/2" HWS/R PIPING MAINS.
- LOCATION OF EXISTING 3-FOOT WIDE x 4-FOOT HIGH ACCESS DOOR OPENING TO CRAWLSPACE AREA FROM BOILER ROOM. ROUTE HWS/R PIPING BETWEEN BOILER ROOM AND AEROBICS AREA 236 WITHIN CRAWLSPACE AREA AS SHOWN. PROVIDE PVC JACKETING OVER THE INSULATED HWS/R PIPING LINESS WITHIN THE CRAWLSPACE.
- ROUTE HWS/R PIPING MAINS EXPOSED WITHIN ART ROOM 45 ALONG EAST WALL OF ART ROOM. PROVIDE 1-1/4" HWS/R BRANCHES TO BLOWER COIL BC-HS-1 HEATING COIL AS REQUIRED. PROVIDE HEATING COIL ON LEFT HAND SIDE OF BLOWER COIL TO ALLOW COIL PULL TO WEST SIDE OF ART ROOM 45. PROVIDE PVC JACKETING OVER ALL EXPOSED INSULATED HWS/R PIPING. MOUNT BLOWER COIL EXPOSED IN

ART ROOM 45 BELOW EXISTING NORTH-SOUTH CONCRETE BEAM. PROVIDE EXPOSED SPIRAL SA DUCTWORK OUT OF FRONT DISCHARGE

- MOUNT BLOWER COIL BC-HS-2 EXPOSED WITHIN WOODSHOP 43. PROVIDE EXPOSED SPIRAL SA DUCTWORK OUT OF FRONT DISCHARGE OUTLET LOCATION ON BLOWER COIL.
- ROUTE 3" HWS/R PIPING APPROXIMATELY 22-FEET VERTICALLY FROM PIPING TUNNEL UP TO GYMNASIUM MEZZANINE FAN ROOM. ROUTE PIPING VERTICALLY THROUGH EXISTING VERTICAL CHASE OPENING.
- ROUTE HWS/R PIPING MAINS BELOW EXISTING 28"x6" RA BRANCH AT LOCATION SHOWN, THEN PROVIDE A RISE UP AND ROUTE THE HWS/R PIPING MAINS WITH TOP OF PIPING EVEN WITH TOP OF EXISTING 32"X15" RA MAIN.
- (18) PROVIDE DROP IN ELEVATION ON THE HWS/R PIPING MAINS AT LOCATION SHOWN ONCE PAST THE EXISTING 10"X6" SA BRANCH.
- ROUTE 2" HWS/R PIPING BRANCHES BELOW EXISTING SA DUCTWORK CONNECTED TO EXISTING AC-1 AND PENETRATE MECHANICAL ROOM (19) 240 WALL BELOW AC-1 SA DUCTWORK AS SHOWN.

**ARCHITECT** 

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## NUFSD BOND **PROJECTS**

■ SED#50-01-08-03-0-003-035 (HIGH SCHOOL)

☐ SED#50-01-08-03-0-004-020 (BARR MIDDLE SCHOOL) High School 103 Church St

> Barr Middle School 50 Blauvelt Rd #1 Nanuet, NY 10954

Nanuet, NY 10954

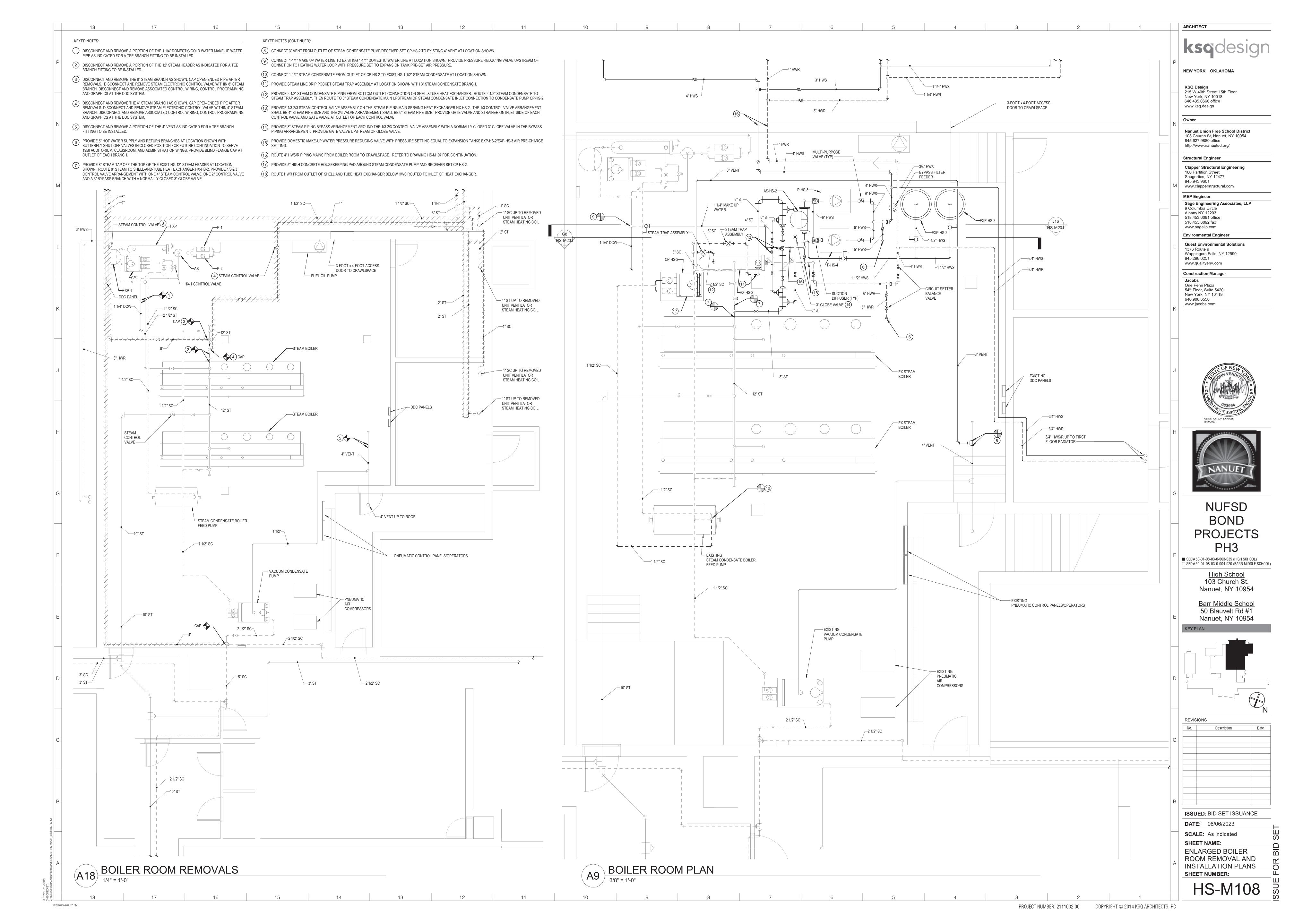
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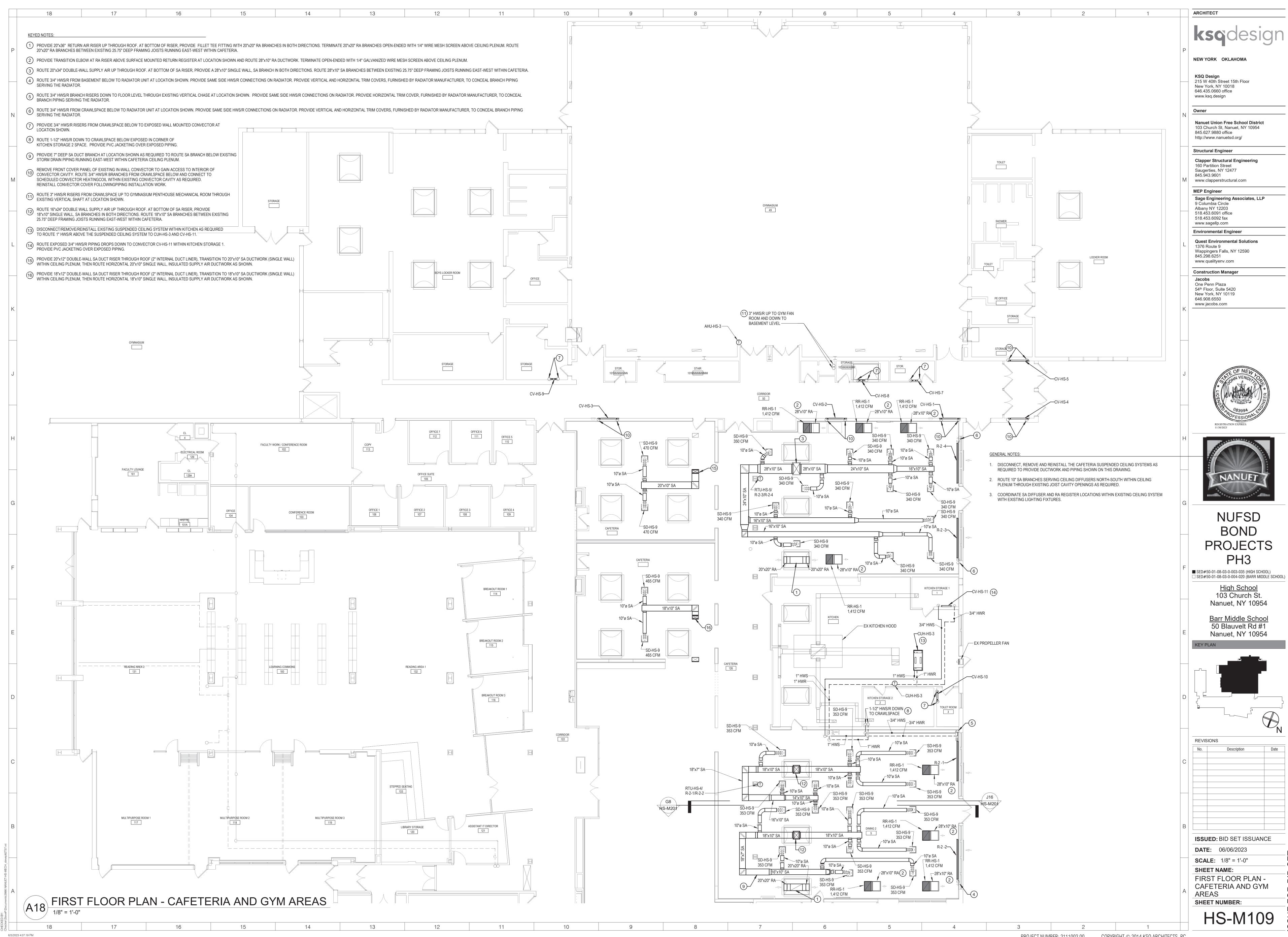
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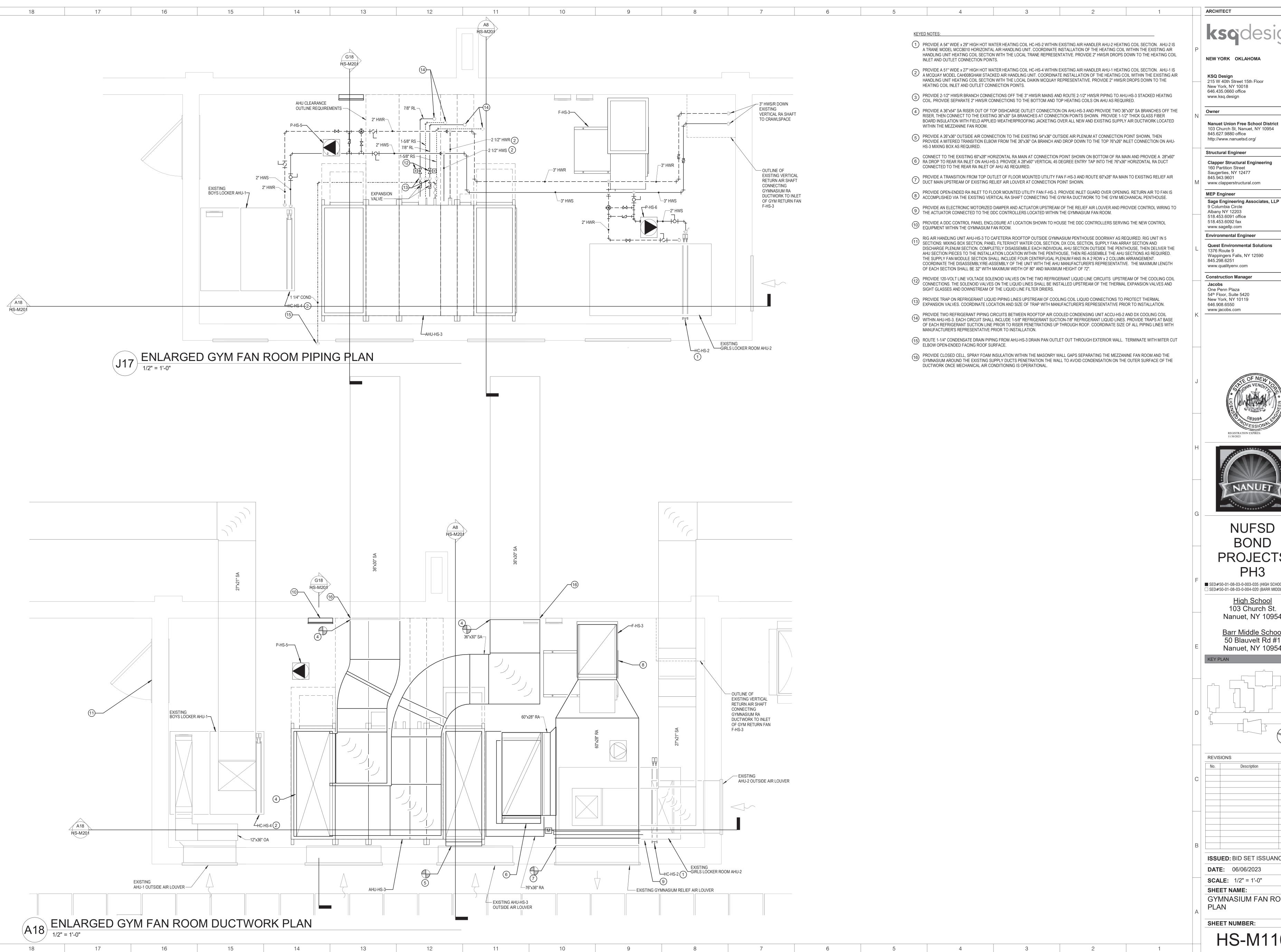
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SHEET NAME: BASEMENT HVAC PLAN

SHEET NUMBER: HS-M107







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#### NUFSD BOND **PROJECTS** PH3

■ SED#50-01-08-03-0-003-035 (HIGH SCH00L)

□ SED#50-01-08-03-0-004-020 (BARR MIDDLE SCH00L)

High School 103 Church St Nanuet, NY 10954

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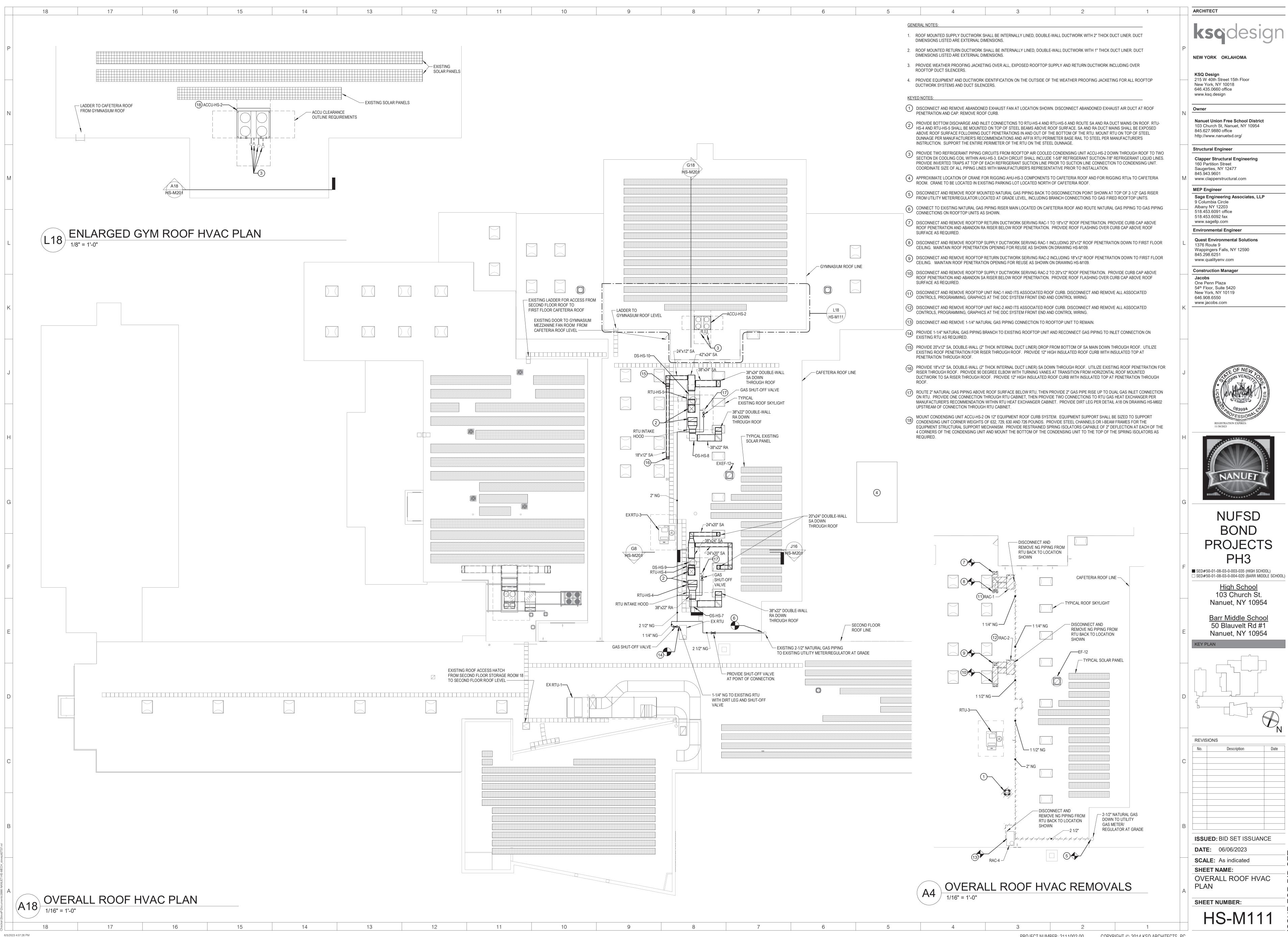
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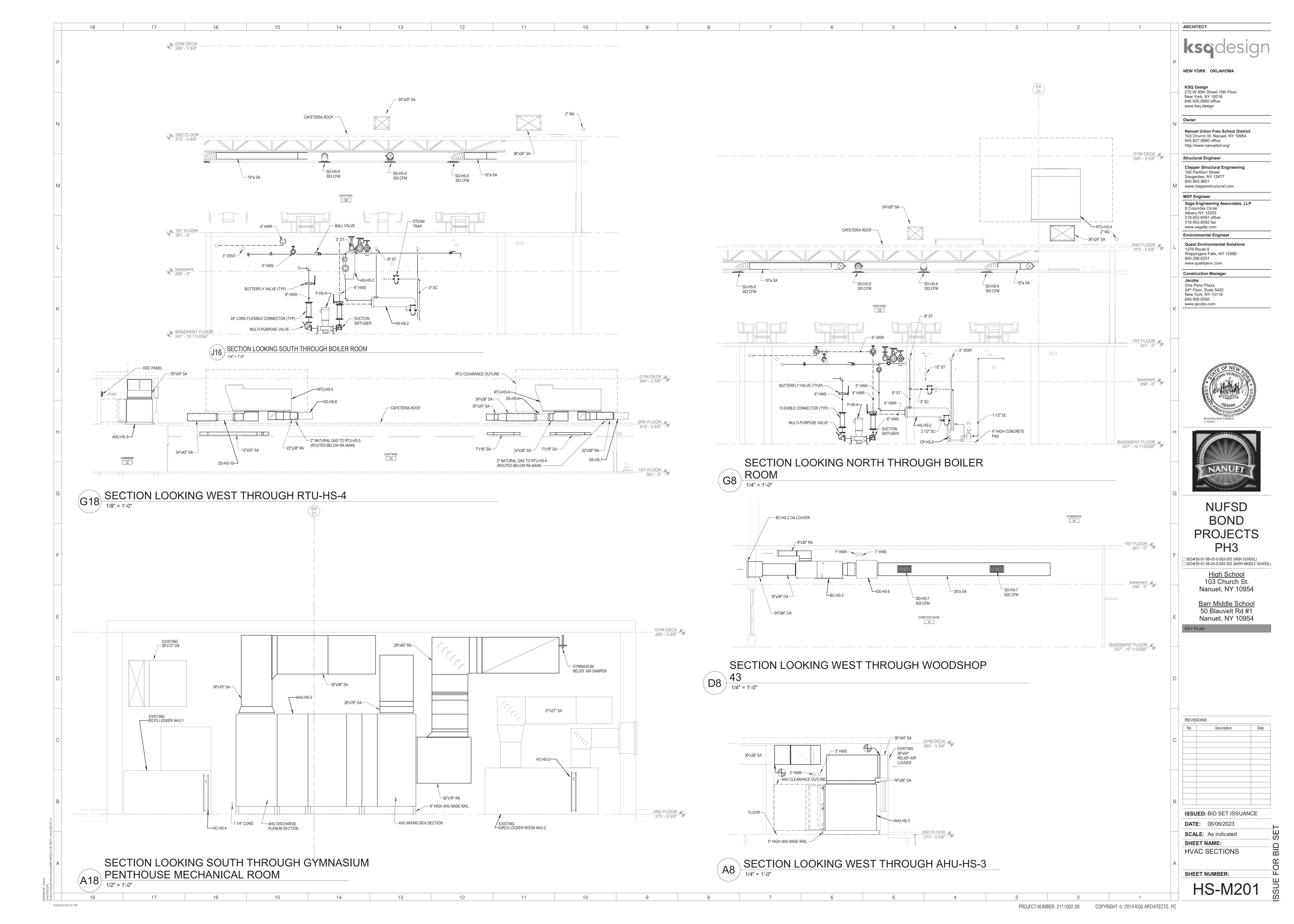
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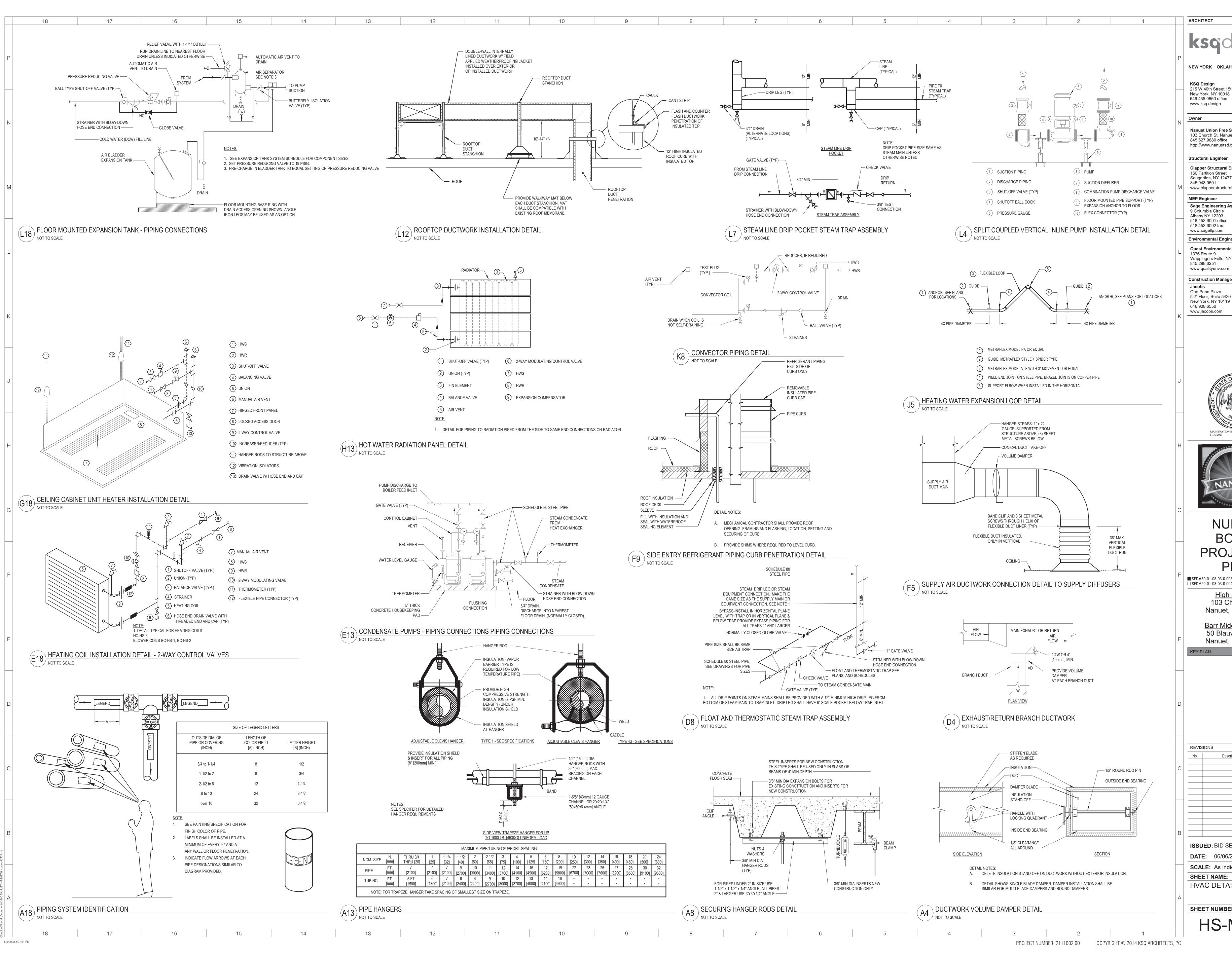
SHEET NUMBER:

HS-M110









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NUFSD BOND **PROJECTS** 

■ SED#50-01-08-03-0-003-035 (HIGH SCHOOL) ☐ SED#50-01-08-03-0-004-020 (BARR MIDDLE SCHOOL)

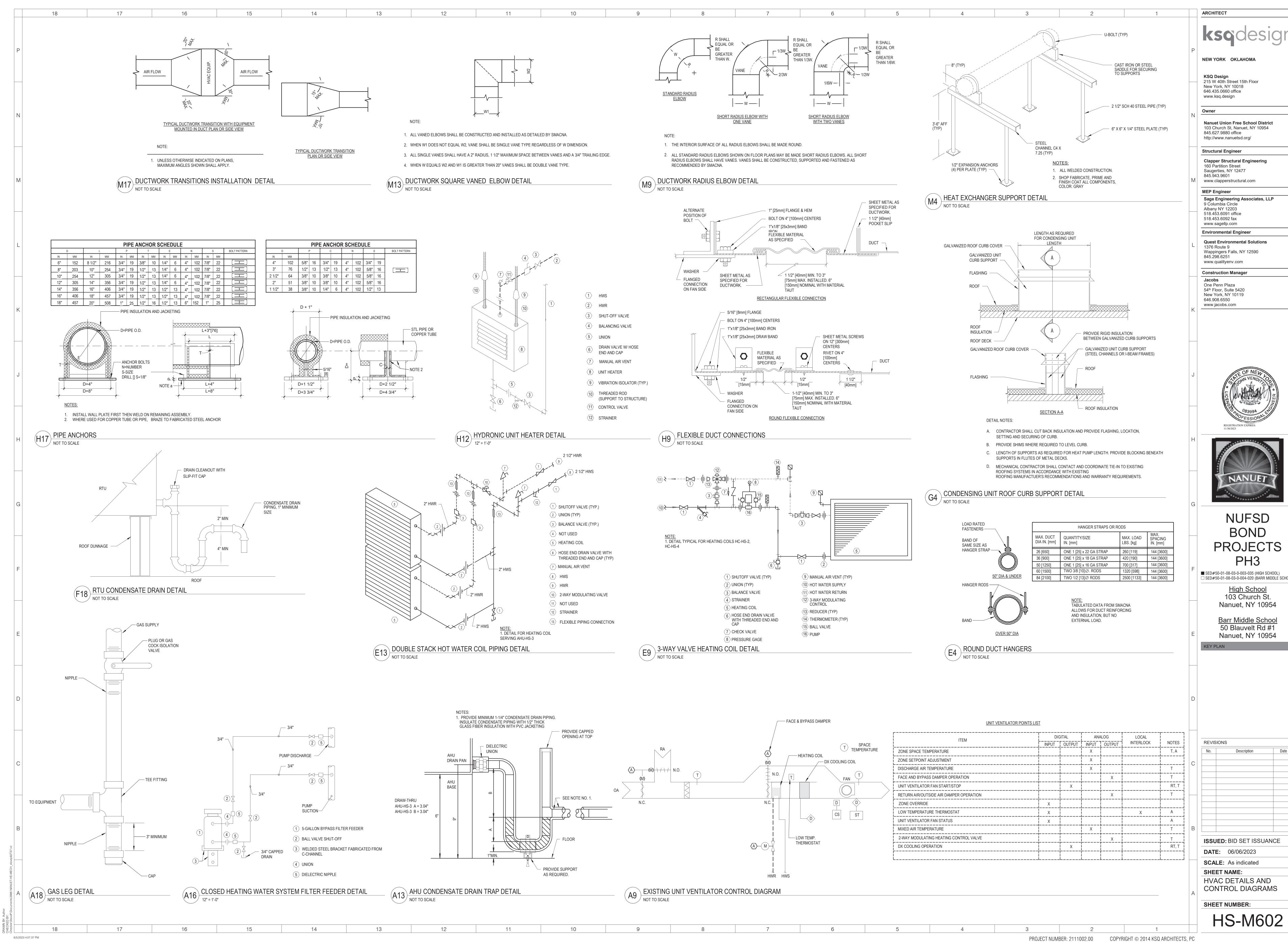
> High School 103 Church St Nanuet, NY 10954

Barr Middle School 50 Blauvelt Rd #1 Nanuet, NY 10954

REVISIONS **ISSUED:** BID SET ISSUANCE **DATE:** 06/06/2023

**SCALE:** As indicated SHEET NAME: **HVAC DETAILS** 

SHEET NUMBER:







# **PROJECTS**

☐ SED#50-01-08-03-0-004-020 (BARR MIDDLE SCHOOL)

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