

WORLD LANGUAGES UV REPLACEMENT

NORTH SALEM CENTRAL SCHOOL DISTRICT

230 June Road
North Salem, NY 10560
NORTH SALEM HIGH SCHOOL

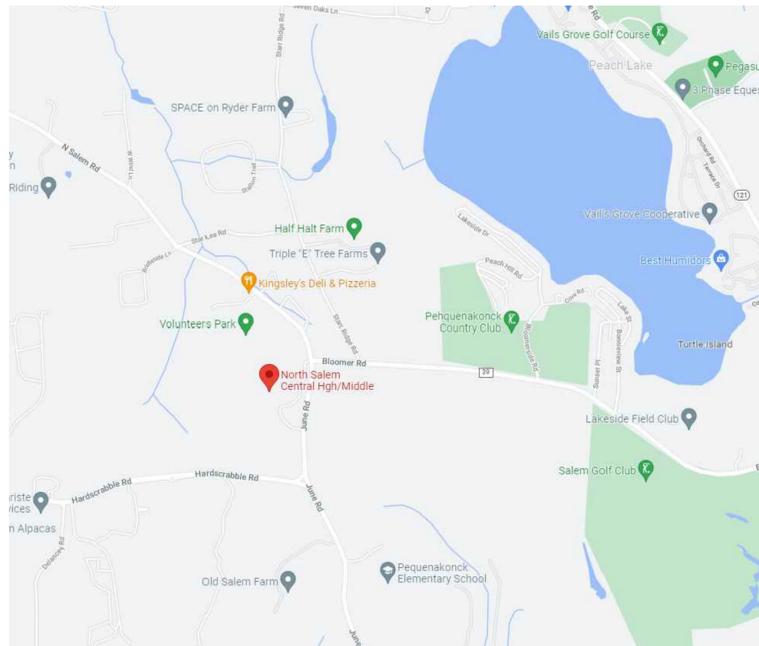
SHEET INDEX		PRICING BET	50% DD
Sheet Number	Sheet Name		
GENERAL			
G000	COVER SHEET		
H001	HVAC: SYMBOLS, NOTES, ABBREVIATIONS, & SCHEDULES		
H100Z	HVAC: DEMOLITION ROOF LEVEL PLAN		
H100	HVAC: DEMOLITION AND NEW CONSTRUCTION FIRST LEVEL PLANS		
H101	HVAC: DEMOLITION AND NEW CONSTRUCTION SECOND LEVEL PLANS		
H701	HVAC: DETAILS & CONTROLS		
E001	ELECTRICAL: SYMBOLS, NOTES, ABBREVIATIONS, & SCHEDULES		
E101	ELECTRICAL: DEMOLITION AND NEW CONSTRUCTION SECOND & ROOF LEVEL PLANS		

PROJECT SCOPE/SEQUENCE:

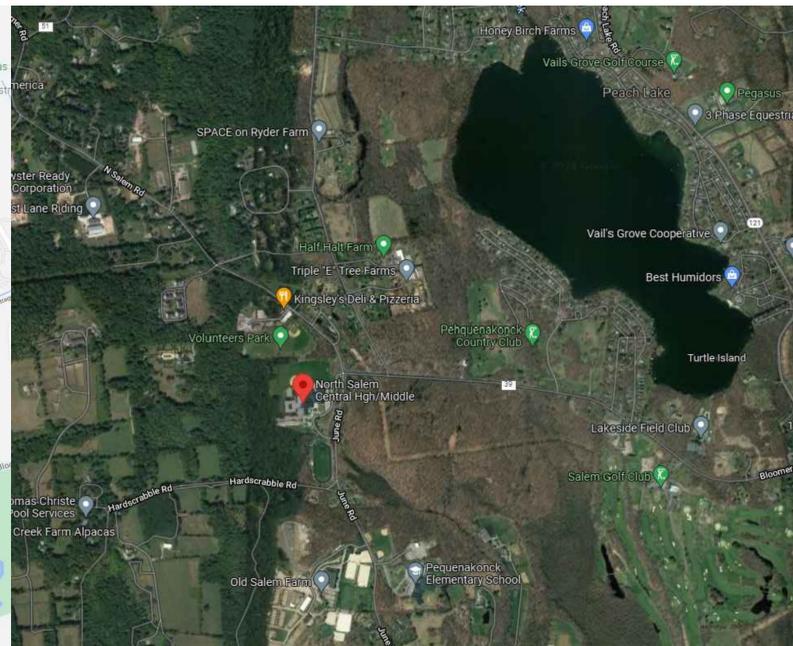
THE WORK INCLUDES, BUT IS NOT LIMITED TO:

- THE PHASED REPLACEMENT OF 6 EXISTING FLOOR MOUNTED UV'S WITH HYDRONIC HEATING AND DX COOLING AND 3 CEILING SUSPENDED UV'S WITH HYDRONIC HEATING AND DX COOLING WITH REMOTE COMPRESSOR/CONDENSER:
 - THE NEW UNITS BEING INSTALLED ARE '2-PIPE' HEATING/COOLING UNITS.
 - THE UNITS SHALL BE INSTALLED IMMEDIATELY UPON RECEIPT, AND INITIALLY CONNECTED TO THE EXISTING DTWS/DTWR IN ORDER TO PROVIDE COOLING TO THE CLASSROOMS.
 - THE UNITS SHALL BE INSTALLED DURING THE APRIL BREAK, AT NIGHT OR ON WEEKENDS AS NEEDED.
- ALL ELECTRICAL AND CONTROL REQUIREMENTS SHALL ALSO BE COMPLETED IMMEDIATELY TO ALLOW THE USE OF THE NEW UV'S AS SOON AS POSSIBLE UPON INSTALLATION.
- AFTER THE END OF THE SCHOOL YEAR, THE EXISTING DTWS/DTWR SHALL BE REPLACED WITH NEW (LARGER) PIPING TO SUPPORT THE REQUIRED COOLING LOAD TO THE WING. UPON REPLACEMENT OF THE PIPING THE UNITS SHALL BE RECONNECTED TO THE NEW PIPING, BALANCED, TESTED AND CERTIFIED OPERABLE AND TURNED OVER TO THE OWNER.
- ALL NEW SAFETIES, CONTROLS AND CONTROL VALVES ARE REQUIRED AS PART OF THE PROJECT SCOPE.
- THE REPLACEMENT UNITS HAVE BEEN PRE-ORDERED BY THE OWNER FOR DELIVERY TO THE SITE. THE CONTRACTOR SHALL RECEIVE THE DELIVERY AND TAKE OWNERSHIP OF THE UNITS FOR STORAGE (ON SITE AS DIRECTED BY THE OWNER)
- THE NEW (6 FLOOR MOUNTED AND 3 CEILING SUSPENDED) UNIT VENTILATORS SHALL PROVIDE HEATING AND COOLING THROUGH THE 2-PIPE (DTWS/DTWR) SYSTEM THE UNITS SHALL INCORPORATE FACE AND BY-PASS CONTROL AND SHALL BE LOCATED THE NSHS SECOND FLOOR WORLD LANGUAGES WING.
- THE WORK, IN ADDITION TO THE REMOVAL OF THE EXISTING HW HEATING AND DX COOLING UV UNITS AND THE INSTALLATION OR HW/CHW UV HEATING AND COOLING UNITS, INCLUDES THE REMOVAL AND REPLACEMENT OF THE DUAL TEMPERATURE HW/CHW PIPING, FROM THE CEILING OF THE FIRST FLOOR, FOLLOWING THE SAME OR SIMILAR PATH OF THE REMOVALS, THE ELECTRICAL POWER ALTERATIONS AND THE HVAC CONTROL ADDITIONS AND ALTERATIONS
- THE UV'S WILL BE REPLACED AS SOON AS POSSIBLY UPON RECEIPT BECAUSE THE COOLING SIDE OF THE EXISTING UNITS BEING REPLACED HAS FAILED. THE UNITS SHALL BE TIED INTO EXISTING BMS SYSTEM AND MADE OPERATIONAL IMMEDIATELY. EXISTING LOUVERS AND GRAVITY HOODS ARE TO REMAIN AND BE REUSED/RECONNECTED AS APPROPRIATE.
- ALL MATERIALS, ASSEMBLIES, FORMS AND METHODS OF CONSTRUCTION AND SERVICE EQUIPMENT SHALL COMPLY WITH THE REQUIREMENTS OF THE LATEST EDITION OF THE NEW YORK STATE BUILDING CODE.
- A COPY OF THE UV SUBMITTAL IS CONTAINED IN THE PROJECT DOCUMENT.

LOCATION MAP:



SATELITE VIEW:



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DESIGN CONFORMS TO APPLICABLE PROVISIONS OF THE NEW YORK STATE UNIFORM FIRE PREVENTION AND BUILDING CODE, NEW YORK STATE ENERGY CONSERVATION AND CONSTRUCTION CODE AND THE NEW YORK STATE EDUCATION DEPARTMENT BUILDING STANDARDS.

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FE Job #: 21-295

SED #66-13-01-04-0-006-028

JOHN D. FELLENZER, P.E.



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SCALE: AS SHOWN

SHEET NAME:
COVER SHEET

SHEET NUMBER:

G000

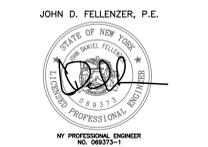


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Table with 3 columns: No., Description, Date. Includes a header row and several empty rows for tracking.

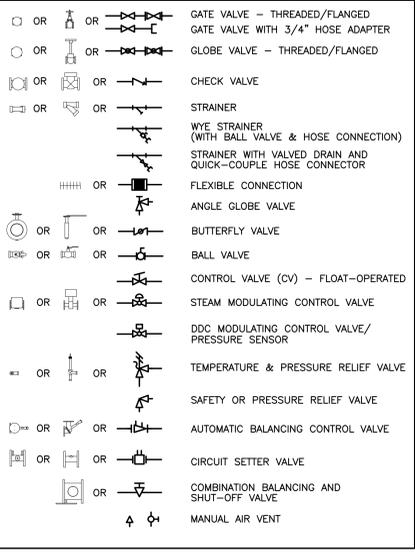
ISSUED: BID ISSUANCE
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SHEET NAME:
HVAC: SYMBOLS, NOTES, ABBREVIATIONS, & SCHEDULES
SHEET NUMBER:

H001

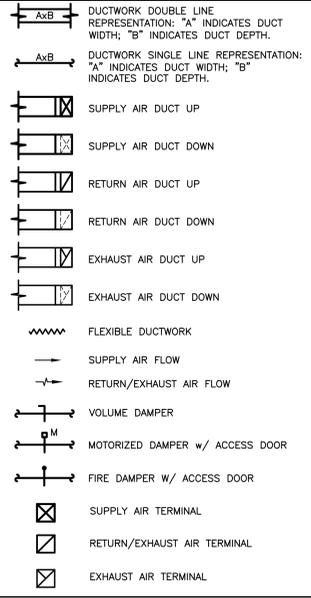
ABBREVIATIONS

Table of abbreviations for HVAC and mechanical systems, including terms like AIR CONDITIONING UNIT, ACU, ACCU, AD, etc.

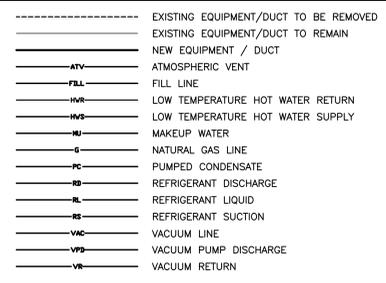
VALVE SYMBOLS



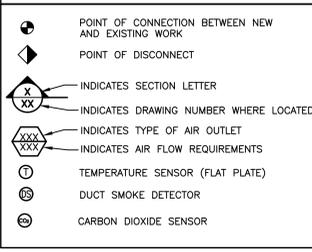
DUCTWORK SYMBOLS



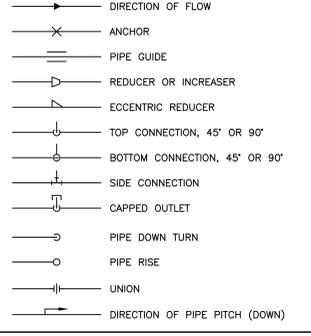
HVAC LINE TYPES



GENERAL SYMBOLS



PIPING SYMBOLS



OWNER SUPPLIED EQUIPMENT: DAIKIN - UNIT VENTILATOR SCHEDULE

Table with columns for Unit Symbol, Supply CFM, Number of Rows, Cooling Data, Heating Data, Electrical Data, Model, and Style. Lists units UV-1, UV-2, UV-3, and UV-4.

UNIT VENTILATOR SIZING SCHEDULE "DAIKIN" AS STANDARD

Table with columns for Unit No., CFM, Length (N.), OA Opening (N.), and Weight (LBS). Lists units UV-1, UV-2, and UV-3.

2020 ENERGY CONSERVATION CONSTRUCTION CODE OF NYS TABLE C403.11.3 MINIMUM PIPE INSULATION THICKNESS (IN INCHES)

Table showing minimum pipe insulation thickness based on fluid operating temperature range and nominal pipe or tube size.

FOR S1: 1" = 25.4mm, °C = [(°)-32]/1.8
a. FOR PIPING SMALLER THAN 1/2" AND LOCATED IN PARTITIONS WITHIN CONDITIONED SPACES...
b. FOR INSULATION OUTSIDE THE STATED CONDUCTIVITY RANGE, THE MINIMUM THICKNESS (T) SHALL BE DETERMINED AS FOLLOWS: T=r[(1+t/R)^k]-1

NOTES:

- 1. ALL CONTROLS BY TBS. UNIT VENTILATORS SHALL NOT BE PROVIDED WITH INTEGRAL MANUFACTURER STAND ALONE DDC CONTROLS OPTION.
2. TEMPERATURE SENSORS TIED TO BMS.
3. PROVIDE TWO-WAY MODULATING CONTROL VALVE.
4. PROVIDE 1" MERV 8 FILTER.
5. PROVIDE ALL UV's WITH TWO (2) ADDITIONAL SETS OF MERV 8 FILTERS TO BE USED AS ATTIC STOCK.
6. UNIT VENTILATORS SHALL BE SWITCHED TO OCCUPIED MODE BY THE BMS SCHEDULING.
7. COLOR BY ARCHITECT.
8. SEE "UNIT VENTILATOR SIZING SCHEDULE" FOR DIMENSIONAL INFORMATION.
9. PROVIDE WITH FACTORY ECM, 3-SPEED MOTORS.
10. PROVIDE WITH FACE & BYPASS DAMPERS.
11. PROVIDE UV-1 WITH BOTTOM RETURN GRILLE, TOP MOUNT OA CONNECTION AND FRONT MOUNT DUCT COLLAR.
12. PROVIDE UV WITH REAR PIPING ENCLOSURE WHERE REQUIRED FOR EXISTING BASEBOARD.
13. PROVIDE WITH FACTORY 6" DEEP END PANELS TO MATCH EXISTING UV INSTALLATION.

North Salem MS/HS School Ventilation Table

Table with columns for Unit No., Occupancy Classification, Square Footage, Occupancy Density, # of Occupants, OA (CFM/person), OA (CFM/ft²), Uncorrected OA (CFM), Air Distribution Effectiveness, Zone Outdoor Airflow (CFM), and Unit Designation. Lists units UV-1 through UV-4.

NOTE:

- 1. BALANCE EACH UV AND GRAVITY RELIEF WITH CORRESPONDING ROOMS OUTDOOR AIR REQUIREMENTS.

MECHANICAL DEMOLITION NOTES:

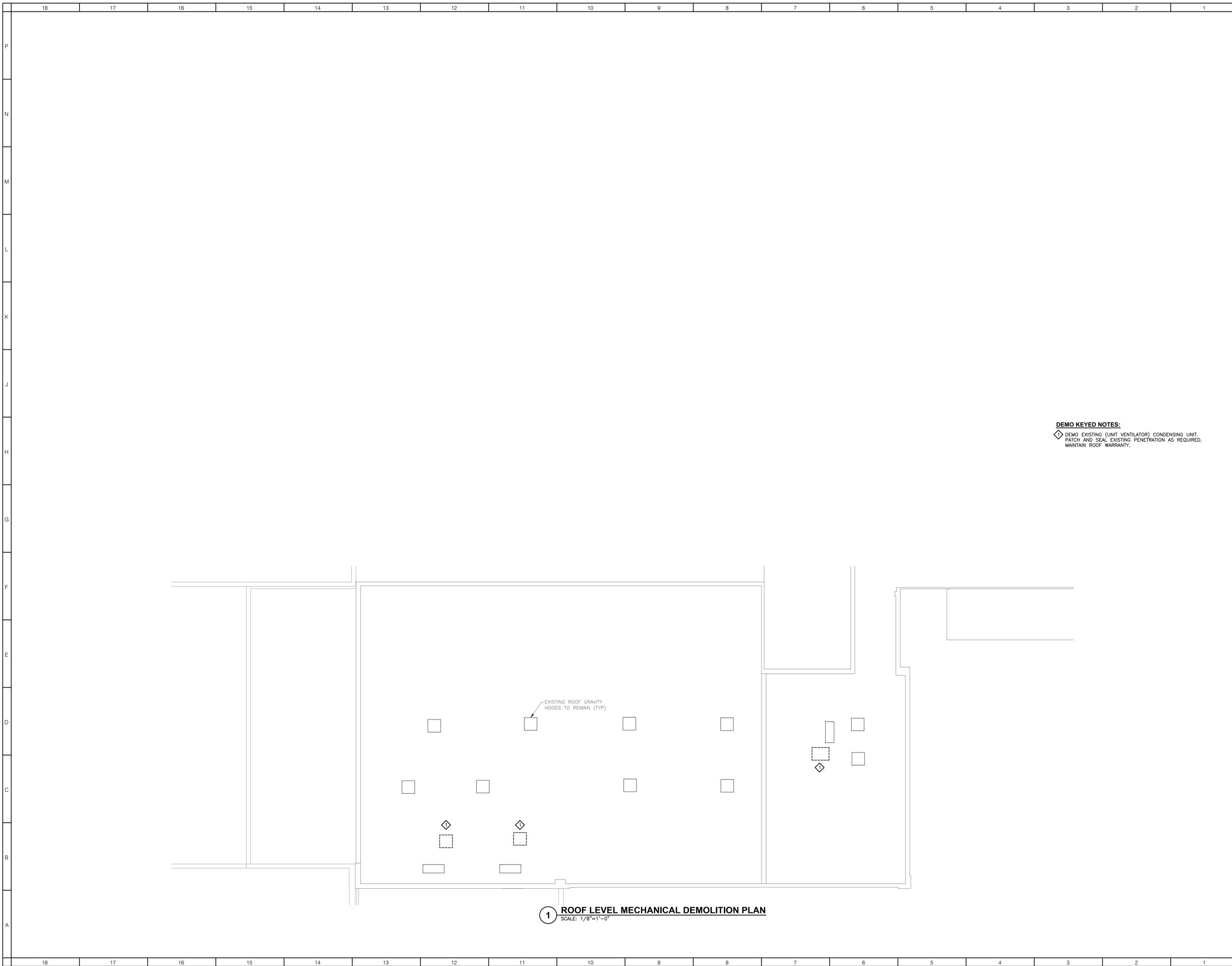
- 1. COORDINATE WITH EXISTING CONDITIONS PLANS FOR EXACT AREAS TO BE DEMOLISHED.
2. REMOVE ALL EQUIPMENT, DUCTWORK AND PIPING AS INDICATED ON PLAN. REMOVALS SHALL INCLUDE ALL SUPPORTS AND HANGERS, HOUSEKEEPING PADS, DAMPERS, VALVES, FITTINGS, CONTROLS AND ASSOCIATED LOW VOLTAGE WIRING, AND ANY OTHER ASSOCIATED ACCESSORIES WHICH PERTAIN TO THE EQUIPMENT TO BE REMOVED.
3. REMOVAL OF ALL POWER CONNECTIONS TO DEMOLITION ITEMS SHALL BE BY THE E.C.
4. ANY DISCREPANCIES BETWEEN THE DEMOLITION PLANS AND ACTUAL FIELD CONDITIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT OR ENGINEER. ANY DEMOLITION WORK WHICH MAY BE QUESTIONABLE DUE TO UNFORESEEN FIELD CONDITIONS SHALL NOT BE REMOVED UNTIL REVIEWED BY THE ARCHITECT, ENGINEER OR BUILDING FACILITIES MANAGER.
5. DEMOLITION WORK SHALL INCLUDE THE PREPARATION OF EXISTING EQUIPMENT FOR CONNECTION TO NEW EQUIPMENT. COORDINATE DEMOLITION WORK WITH THE CONSTRUCTION PLANS.
6. ALL EQUIPMENT REMOVALS SHALL BECOME THE PROPERTY OF THIS CONTRACTOR. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER REMOVAL AND DISPOSAL OF DEMOLITION ITEMS OFF-SITE, UNLESS OTHERWISE NOTED.
7. ALL CUTTING AND PATCHING NECESSARY FOR THE DEMOLITION WORK SHALL BE THE RESPONSIBILITY OF THIS CONTRACTOR.
8. IT SHALL BE THE OWNER'S RESPONSIBILITY TO REMOVE ANY LOOSE EQUIPMENT, FURNITURE, SUPPLIES, ETC. THAT MAY BE LOCATED IN THE AREA OF WORK.
9. THE PLANS ARE INTENDED TO CONVEY THE EXTENT AND SCOPE OF THE DEMOLITION WORK. EVERY ITEM INTENDED FOR REMOVAL MAY NOT BE SHOWN. THE CONTRACTOR IS ADVISED TO SURVEY THE PROJECT SITE BEFORE SUBMITTING A BID FOR DEMOLITION WORK.

GENERAL NOTES:

- 1. THE DRAWINGS ON THESE PLANS ARE DIAGRAMMATIC. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL HVAC WORK WITH OTHER TRADES AND THE BUILDING STRUCTURE. NO EXTRA PAYMENTS WILL BE AUTHORIZED FOR REROUTING OR REMOVAL OF INSTALLED WORK DUE TO LACK OF COORDINATION WITH OTHER SYSTEMS.
2. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CUTTING AND PATCHING OF WALLS, FLOORS AND CEILINGS AS REQUIRED FOR INSTALLATION OF HIS WORK.
3. ACCESS PANELS SHALL BE PROVIDED IN CEILINGS, WALLS, FLOORS, ETC., AS REQUIRED TO MAINTAIN ACCESSIBILITY TO VALVES, DAMPERS, TRAPS, COILS, ETC.
4. ALL PENETRATIONS THROUGH FIRE RATED PARTITIONS SHALL BE SEALED FIRE AND SMOKE TIGHT WITH AN APPROPRIATE U.L. LISTED FIRESTOPPING MATERIAL AND OR SYSTEM.
5. PROVIDE SHUT-OFF VALVES AT ALL PIPING BRANCH TAKE-OFFS AND AT ALL CONNECTIONS TO EQUIPMENT.
6. PROVIDE DRAINS WITH HOSE ADAPTERS AND CAPS ON PIPING AT ALL LOW POINTS. PROVIDE AUTOMATIC AIR VENTS ON PIPING AT ALL HIGH POINTS.
7. COORDINATE ELECTRICAL CHARACTERISTICS AND REQUIREMENTS OF ALL MECHANICAL EQUIPMENT WITH ELECTRICAL SUB CONTRACTOR.
8. ALL MOTOR STARTERS SHALL BE FURNISHED BY THE HVAC CONTRACTOR AND INSTALLED BY THE ELECTRICAL SUB CONTRACTOR.
9. ALL REQUIRED CONTROL EQUIPMENT AND WIRING SHALL BE FURNISHED & INSTALLED BY THE HVAC CONTRACTOR.
10. IN THIS PLAN SET, M.C. AND H.C. REFER TO MECHANICAL CONTRACTOR.
11. THE TERMS "PROVIDE" OR "FURNISH", AS USED ON THESE PLANS, INDICATE THAT THE CONTRACTOR IS TO FURNISH AND INSTALL THE REFERENCED EQUIPMENT OR SYSTEMS IN THEIR ENTIRETY AS REQUIRED FOR A COMPLETE AND OPERABLE SYSTEM.
12. CONTRACTOR SHALL PROVIDE AND INSTALL ALL COMPONENTS INDICATED ON DETAIL SHEETS, PLANS, SPECIFICATIONS AND ALL PERTINENT EQUIPMENT REQUIRED FOR A COMPLETE AND WORKABLE SYSTEM.
13. CONTRACT CLOSE OUT: IN THE PRESENCE OF THE OWNER, ENGINEER OR ARCHITECT; DEMONSTRATING OPERATION OF SYSTEMS AND THAT ALL SPECIFICATIONS HAVE BEEN MET TO THE SATISFACTION OF ALL PARTIES.
14. IT IS THE INTENT OF THESE PLANS AND SPECIFICATIONS TO PROVIDE ALTERATIONS AND/OR NEW CONSTRUCTION AS INDICATED ON THE DRAWINGS AND IN THE SPECIFICATIONS TO PROVIDE COMPLETE NEW SYSTEMS IN EVERY RESPECT, CAPABLE OF OPERATING AS DESIGNED. IT IS NOT INTENDED THAT EVERY FITTING, MINOR DETAIL OR FEATURE BE SHOWN ON DRAWINGS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DETAIL NECESSARY FOR COMPLETION OF THESE SYSTEMS IN ACCORDANCE WITH GOOD PRACTICE.

MECHANICAL CONTRACTOR SCOPE ITEMS:

- 1. REMOVE & REPLACE SPECIFIED UNIT VENTILATORS.
2. INSTALLATION OF NEW HYDRONIC PIPING.
3. CONNECTION TO EXISTING CONDENSATE DRAIN PIPING.
4. ALL CEILINGS TO BE REMOVED AND REINSTALLED BY M.C. TO COMPLETE MECHANICAL SCOPE. ANY ADDITIONAL COST FOR ELECTRICAL REMOVAL AND REINSTALLATION BORNE BY M.C.
5. CUTTING, PATCHING, AND PAINTING: UNLESS OTHERWISE NOTED, ALL CUTTING, PATCHING, AND PAINTING IS THE RESPONSIBILITY OF THIS CONTRACTOR FOR ALL HIS WORK INCLUDING:
-NEW OPENINGS FOR NEW WORK.
-REPAIR ALL EXISTING OPENINGS FOR REMOVAL OR ABANDON WORK.
-FILLING ALL OPENINGS, INCLUDING FUR PAINT.
-PAINTING OF ALL SURFACES AFTER REMOVAL OF UNIT VENTILATORS, BASEBOARD ELEMENTS AND ENCLOSURES, UNIT HEATERS, CABINET HEATERS, ETC.
6. SUBMIT PIPING LAYOUT SHOP DRAWINGS PRIOR TO SUBMITTALS. PROVIDE COMPETENT PERSON FOR FIELD INVESTIGATION.
7. ALL WORK INDICATED AS MECHANICAL, HVAC, PLUMBING, AND CONTROLS SHALL BE PERFORMED BY M.C.
8. PROVIDE CONSTRUCTION BARRIERS AT EACH END OF CORRIDOR THROUGH THE DURATION OF THE PROJECT.
9. PROVIDE CONSTRUCTION BARRIERS IN FIRST FLOOR CORRIDOR AND CLASS ROOM TO SEPARATE AREA OF WORK FROM OCCUPANTS. PERFORM TIE-IN TO DUAL-TEMP LINES AFTER HOURS TO MINIMIZE SHUT-DOWN OF OTHER HVAC EQUIPMENT. PROVIDE NEW ISOLATION VALVES TO CONTINUE NEW PIPING & INSTALLATION IN SECOND FLOOR WHILE LEAVING ALL OTHER SYSTEMS FULLY OPERATIONAL.



1 ROOF LEVEL MECHANICAL DEMOLITION PLAN
SCALE: 1/8"=1'-0"

DEMO KEYED NOTES:
 ◊ DEMO EXISTING (UNIT VENTILATOR) CONDENSING UNIT.
 PATCH AND SEAL EXISTING PENETRATION AS REQUIRED.
 MAINTAIN ROOF WARRANTY.

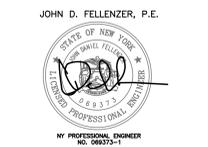


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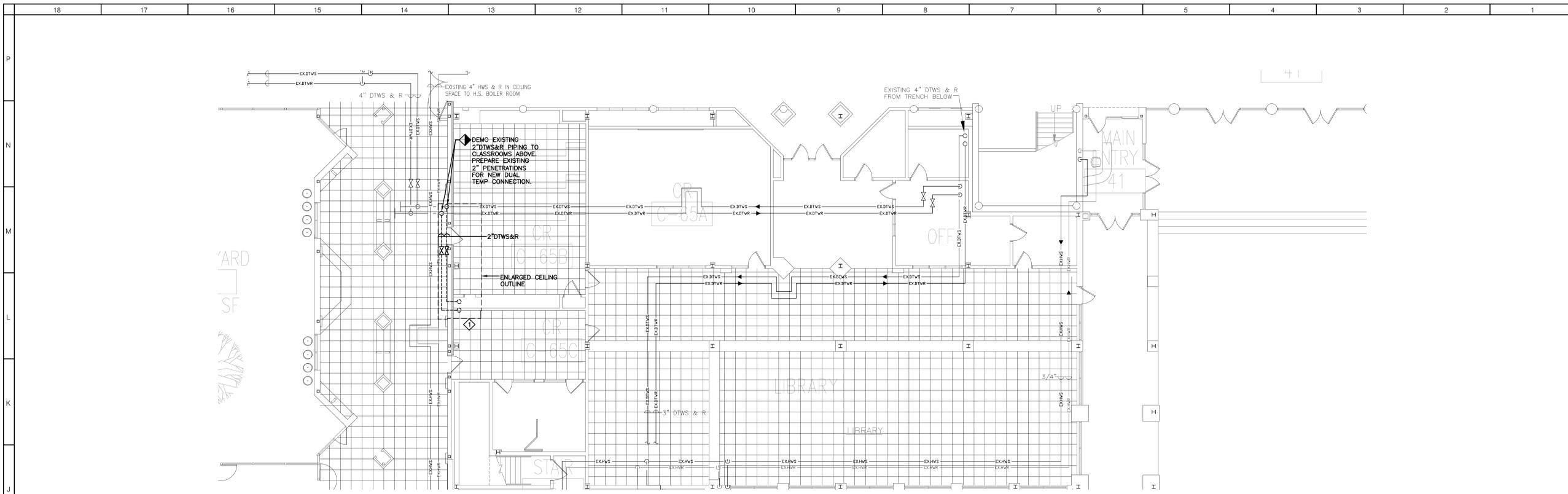
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 HVAC: DEMOLITION ROOF
 LEVEL PLAN

SHEET NUMBER:
HD102



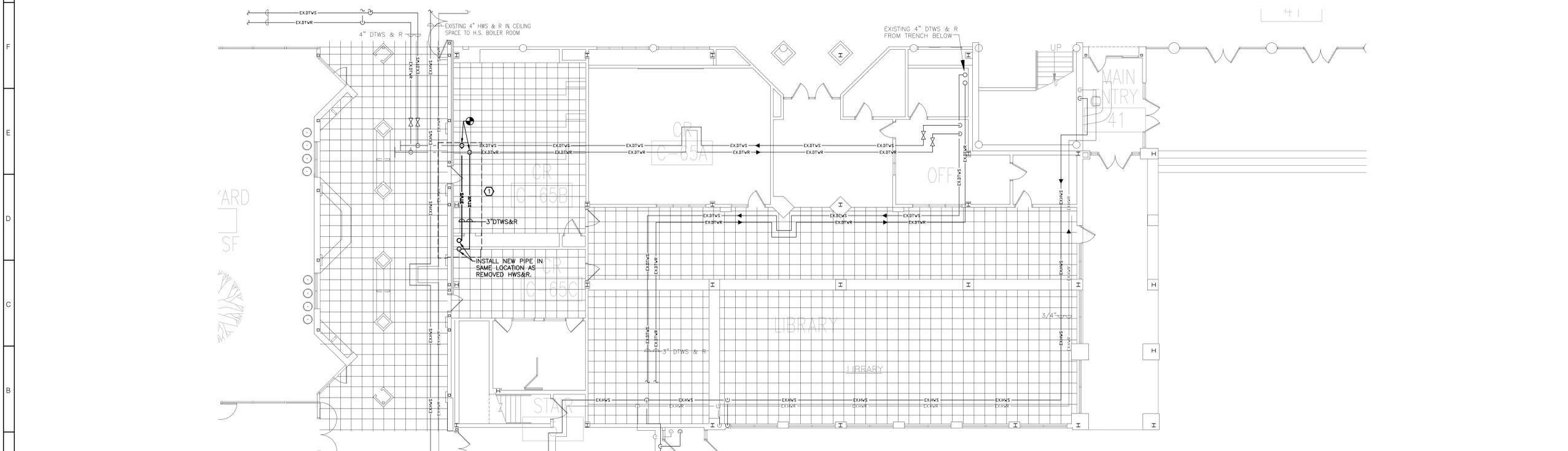
1 FIRST LEVEL DEMOLITION MECHANICAL PLAN
SCALE: 1/8"=1'-0"

NOTE:
1. PATCH AND PAINT ALL FLOOR, CEILING, AND WALL OPENINGS RESULTING FROM HVAC DEMOLITION PER DIVISION 1 SPECIFICATIONS.

DEMOLITION KEYED NOTE:
◇ MECHANICAL CONTRACTOR TO REMOVE CEILING & HIRE ELECTRICAL SUB CONTRACTOR TO REMOVE CEILING ELECTRICAL DEVICES AS NECESSARY FOR HIS OWN WORK AND TO ALLOW THE THE DEMOLITION AND INSTALLATION OF PIPING. ALL REMOVAL WORK SHALL BE REPLACED AFTER PIPING INSTALLATION IS COMPLETED. APPROXIMATES ARE SHOWN.

NEW WORK KEYED NOTE:
① MECHANICAL CONTRACTOR TO REINSTALL CEILING & HIRE ELECTRICAL SUB CONTRACTOR TO REINSTALL ALL CEILING ELECTRICAL DEVICES UPON COMPLETION OF PIPING INSTALLATION.

GENERAL NOTE:
1. ALL PIPING SHOWN IS IN CEILING SPACE.



2 FIRST LEVEL MECHANICAL PLAN
SCALE: 1/8"=1'-0"



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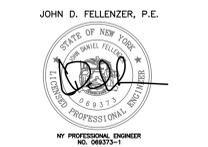


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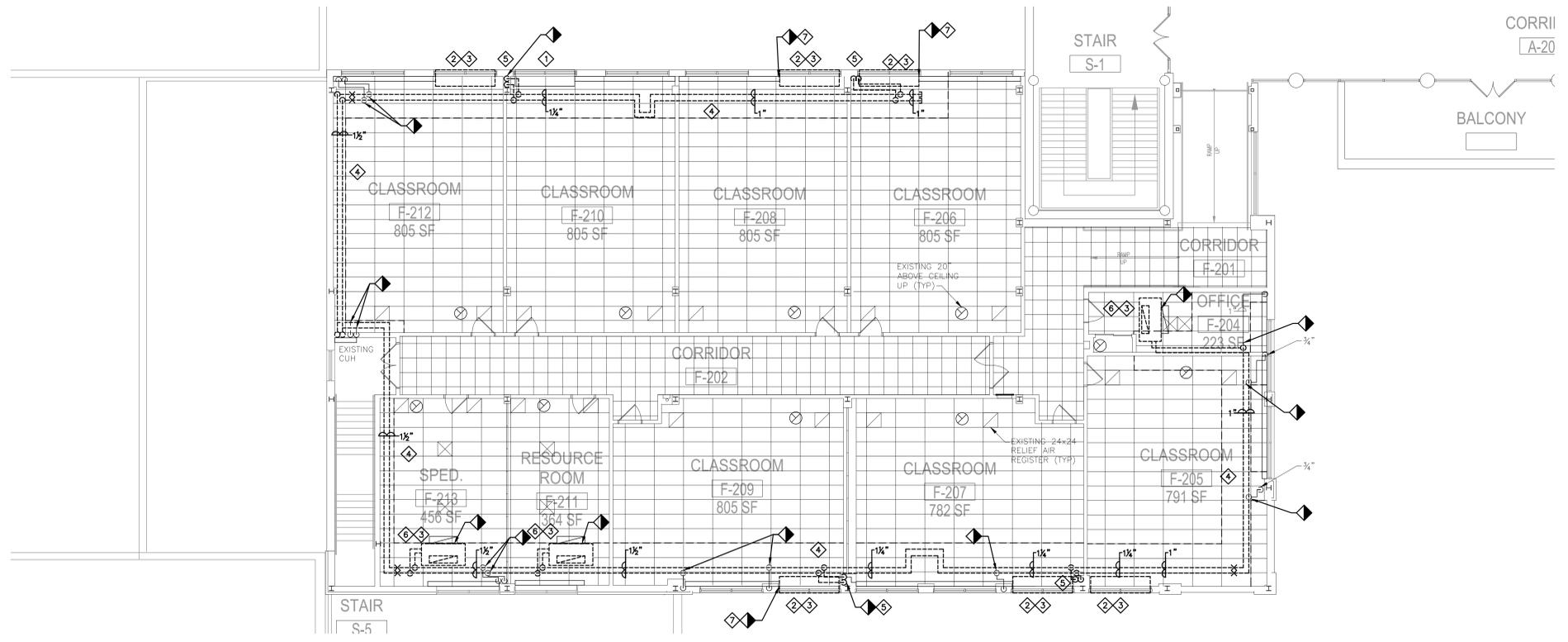
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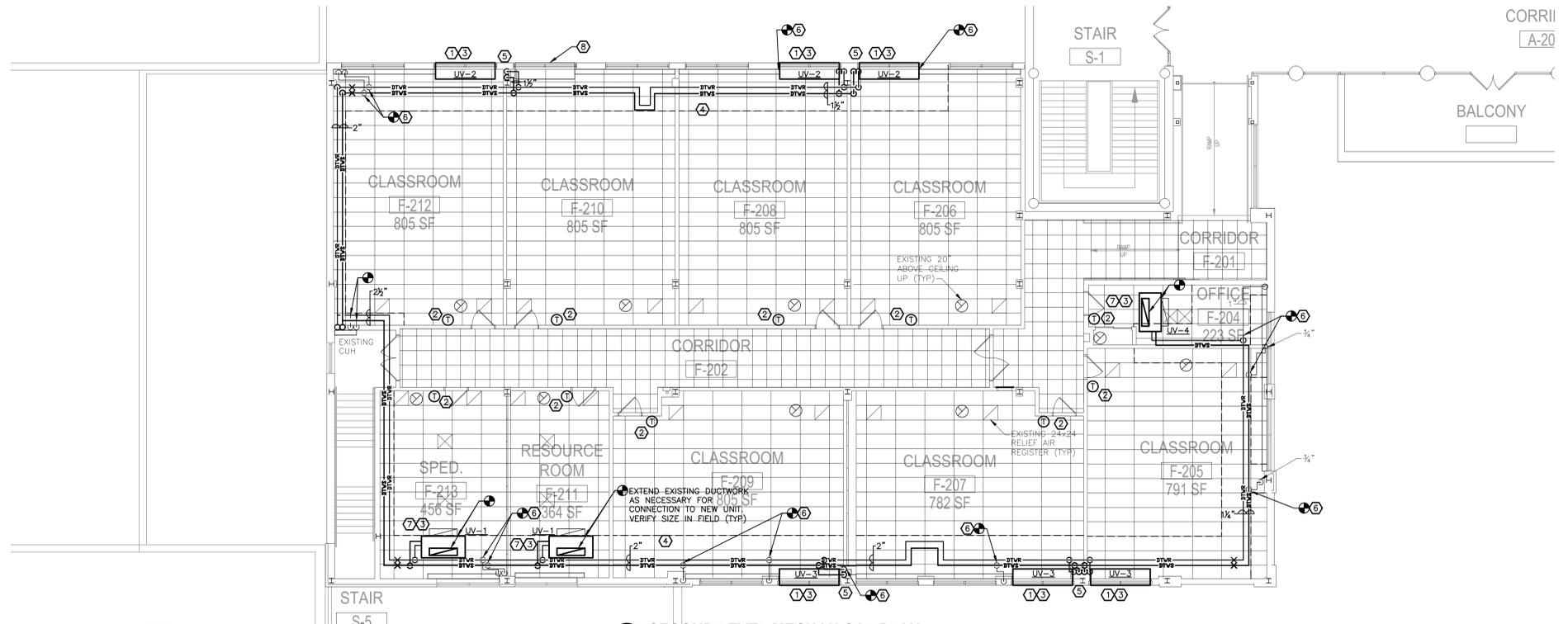
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 HVAC: DEMOLITION AND NEW CONSTRUCTION SECOND LEVEL PLANS
SHEET NUMBER:

H101



1 SECOND LEVEL DEMOLITION MECHANICAL PLAN
SCALE: 1/8"=1'-0"

- NOTES:**
1. DEMO ALL EXISTING UNIT VENTILATOR CONTROL, BALANCING VALVES, ETC.
 2. REMOVE ALL HYDRONIC PIPING. PATCH AND PAINT ALL FLOOR, CEILING, AND WALL OPENINGS RESULTING FROM HVAC DEMOLITION PER DIVISION 1 SPECIFICATIONS. PREPARE FOR NEW UV'S.
 3. ALL EXISTING BASEBOARDS TO REMAIN. PREPARE EXISTING PIPES FOR NEW CONNECTION.



2 SECOND LEVEL MECHANICAL PLAN
SCALE: 1/8"=1'-0"

- NOTES:**
1. UPON COMPLETION OF NEW WORK, REFILL, TEST, ENERGIZE AND BALANCE HYDRONIC PIPING.
 2. CONTRACTOR TO VERIFY IN FIELD EACH AND EVERY LOUVER OPENING PRIOR TO SUBMITTAL PACKAGE.

- DEMOLITION KEYED NOTES:**
1. EXISTING UV TO REMAIN. DEMO EXISTING 1" PIPING UP TO CONTROL VALVES AND PREPARE FOR NEW CONNECTION.
 2. KEEP EXISTING LOUVERS. REMOVE UV, CONTROL PIPING, & RUNOUTS. PREPARE FOR NEW UV WITH DUAL TEMP HW/CHILLED WATER CONNECTIONS.
 3. REMOVE EXISTING CONTROLS & SENSORS.
 4. MECHANICAL CONTRACTOR TO REMOVE CEILING & HIRE ELECTRICAL SUB CONTRACTOR TO REMOVE CEILING ELECTRICAL DEVICES AS NECESSARY FOR HIS OWN WORK AND TO ALLOW THE THE DEMOLITION AND INSTALLATION OF PIPING. ALL REMOVAL WORK SHALL BE REPLACED AFTER PIPING INSTALLATION IS COMPLETED. APPROXIMATES ARE SHOWN.
 5. DEMO EXISTING VERTICAL PIPING IN GYPSUM WALL ENCLOSURE. PREPARE FOR NEW PIPING AND REPAIR WALL ENCLOSURE.
 6. REMOVE EXISTING CEILING UV, CONTROL PIPING, & RUNOUTS. DISCONNECT FROM EXISTING OA & SA DUCTS AND PREPARE FOR RECONNECTION TO NEW UV. PREPARE FOR NEW UV WITH DUAL TEMP HW/CHILLED WATER CONNECTIONS.
 7. DISCONNECT BASEBOARD FROM PIPING BEHIND UV. PREPARE FOR RECONNECTION.

- NEW WORK KEYED NOTES:**
1. NEW UV (UNIT VENTILATOR) FURNISHED BY OWNER, INSTALLED BY CONTRACTOR. CONTRACTOR TO CONNECT TO NEW DUAL TEMP HYDRONIC PIPING AND EXISTING CONDENSATE DRAIN. PROVIDE ALL NEW VALVES AS NECESSARY. COORDINATE WITH EXISTING LOUVER.
 2. INSTALL NEW TEMPERATURE SENSOR (FIELD VERIFY LOCATION).
 3. PROVIDE NEW DDC CONTROLS.
 4. MECHANICAL CONTRACTOR TO REINSTALL CEILING & HIRE ELECTRICAL SUB CONTRACTOR TO REINSTALL ALL CEILING ELECTRICAL DEVICES UPON COMPLETION OF PIPING INSTALLATION. PROVIDE NEW TILES AS REQUIRED.
 5. INSTALL NEW VERTICAL PIPING DROP TO NEW UV'S IN EXISTING WALL CHASE. PATCH AND PAINT EXISTING WALLS AS REQUIRED. PROVIDE 1/2" DTWS&R SPLIT TO EACH UV.
 6. RECONNECT EXISTING BASEBOARD BRANCHES TO NEW PIPING IN CEILING OR BEHIND NEW UV.
 7. NEW CEILING UV (UNIT VENTILATOR) FURNISHED BY OWNER, INSTALLED BY CONTRACTOR. CONTRACTOR TO CONNECT TO NEW DUAL TEMP HYDRONIC PIPING, EXISTING CONDENSATE DRAIN, AND OA/SA DUCTS. PROVIDE ALL NEW VALVES AS NECESSARY.
 8. EXISTING UV. CONNECT TO NEW PIPING DROP.

- GENERAL NOTE:**
1. PIPING SHOWN IS IN CEILING SPACE WITH DROPS ALONG WALL TO UV'S AND BASEBOARD.
 2. BASEBOARD SHALL REMAIN AND OPERATE IN HEATING ONLY.
 3. MAKE APPROPRIATE PIPING CONNECTIONS AND INSTALL APPROVED CONTROL VALVE TO SEPARATE BASEBOARD PIPING FROM DTWS/DTWR DURING THE COOLING SEASON.



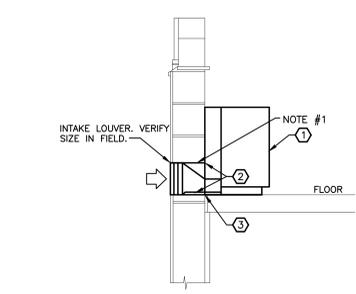
NORTH SALEM WORLD LANGUAGES UV REPLACEMENT

230 June Road
 North Salem, NY 10560

REVISIONS		
No.	Description	Date

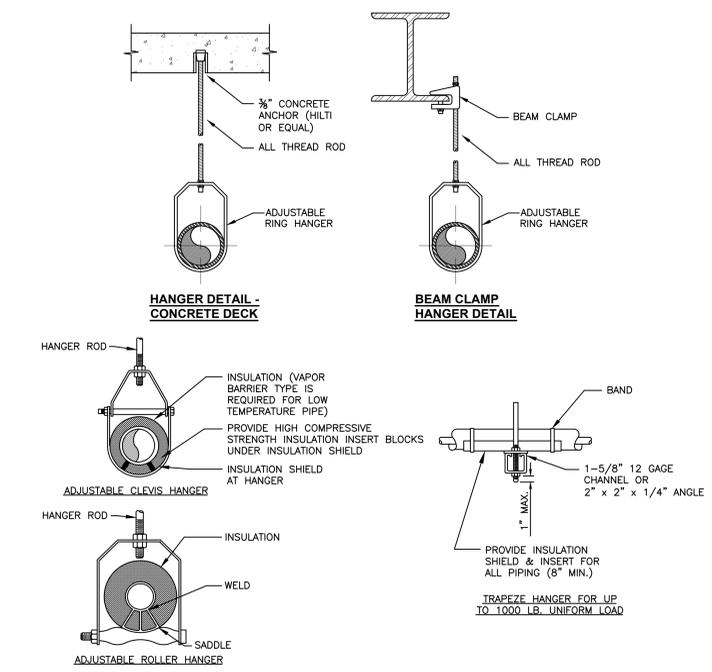
ISSUED: BID ISSUANCE
DATE: February 23, 2022
SCALE: AS SHOWN
SHEET NAME:
 HVAC: DETAILS & CONTROLS
SHEET NUMBER:

H701



NOTES:
 1. PROVIDE 1/2" THICK STRUCTURAL STEEL SLEEVE WITH VERTICAL STEEL STIFFENERS.

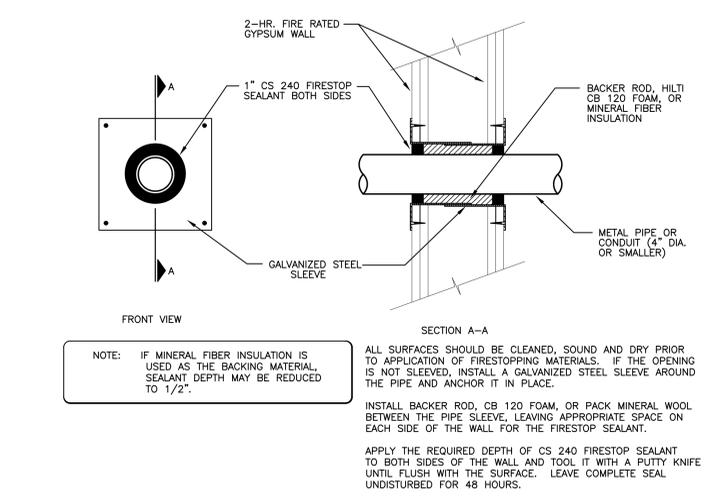
1 UNIT VENTILATOR DETAIL
 N.T.S.



INDIVIDUAL PIPE HANGER ROD & SPACING SCHEDULE										
NOMINAL PIPE DIAMETER (IN.)	3/4	1	1 1/2	2	2 1/2	3	4	5	6	-
HANGER ROD SIZE (IN.)	3/8	3/8	3/8	3/8	1/2	1/2	5/8	5/8	7/8	-
MAXIMUM SUPPORT SPACING (FT.)										
STEEL PIPE	6	7	9	10	11	12	14	16	17	-
COPPER TUBE	6	6	8	9	10	10	12	14	14	-

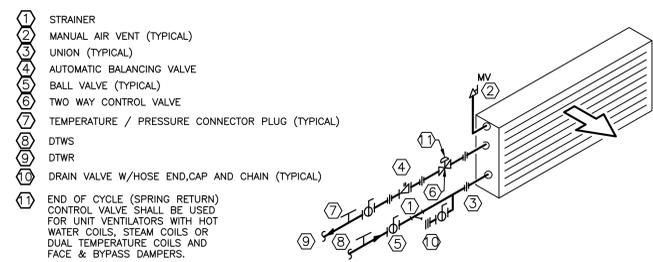
NOTE: TRAPEZE HANGER SPACING SHALL BE BASED ON SPACING OF SMALLEST PIPE ON TRAPEZE. TRAPEZE SHALL BE DESIGNED WITH A FACTOR OF SAFETY OF 5 FOR CENTER OF SPAN CONCENTRATED LOAD

5 TYPICAL PIPE HANGERS
 N.T.S.

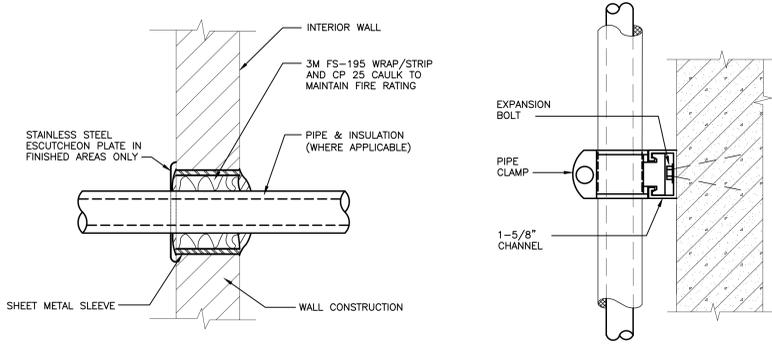


7 FIREWALL PENETRATION DETAIL
 N.T.S.

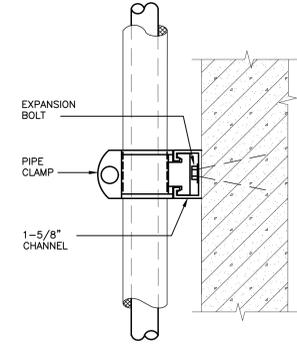
- KEYED NOTES:**
- NEW UNIT VENTILATOR FURNISHED BY THE OWNER AND INSTALLED BY THE HVAC CONTRACTOR. UNIT MUST BE INSTALLED FLUSH WITH THE EXTERIOR WALL CONSTRUCTION FOR AN AIRTIGHT FIT.
 - REPLACE EXISTING SLEEVE WITH CONTINUOUS 20 GA. STAINLESS STEEL SHEET METAL SLEEVE (BY H.C.) CAULKED AND SCREWED TO LOUVER. SLOPE TOWARDS EXTERIOR. H.C. SHALL BE RESPONSIBLE FOR ALL CUTTING AND PATCHING. EXISTING WALL LINTEL TO REMAIN. COORDINATE WITH ARCHITECT. MEASURE EXISTING LOUVER AND EXISTING OPENING AND COORDINATE WITH NEW O/A OPENING IN UV. PROVIDE TRANSITION SLEEVE AS REQUIRED.
 - SEAL BETWEEN UNIT AND EXTERIOR CONSTRUCTION WITH MANUFACTURERS APPROVED 1" WIDE COMPRESSIBLE GASKET. GASKET TO FORM AN AIRTIGHT SEAL BETWEEN THE WALL AND THE UNIT.
 - REFER TO UV COIL PIPING SCHEMATIC. SEE DETAIL 2/H701.
 - DISCONNECT ELECTRIC AND CONTROLS FROM EXISTING UV. PROVIDE NEW CONTROLS TO EXISTING BMS & POWER AS SHOWN ON E101.
 - FIELD VERIFY PIPING, ELECTRICAL, CONTROLS, AND ACCESS. COORDINATE WITH NEW EQUIPMENT CHASSIS AND ORDER CORRECT COMPONENTS TO MINIMIZE FIELD CHANGES.



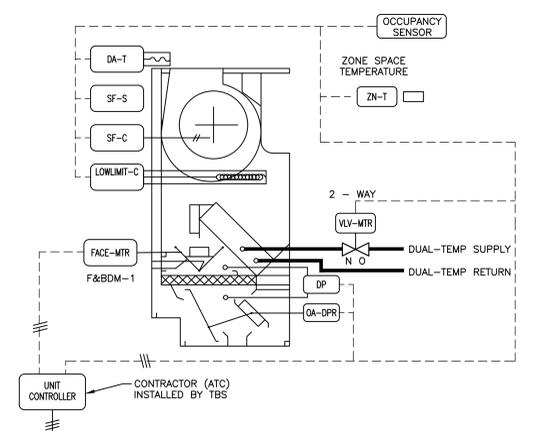
2 UNIT VENTILATOR HYDRONIC PIPING
 N.T.S.



3 RATED WALL PENETRATION DETAIL
 N.T.S.



4 PIPE SUPPORT AT WALL
 N.T.S.

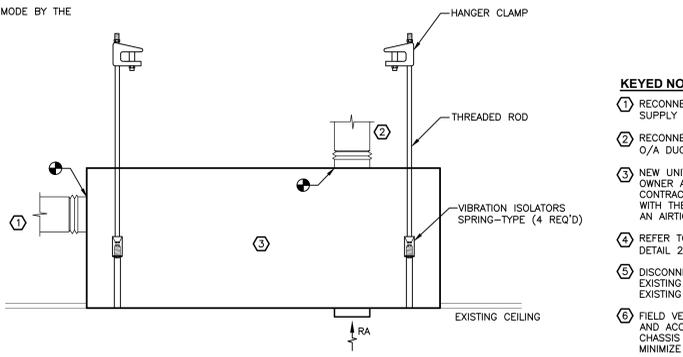


6 UNIT VENTILATOR CONTROL SCHEMATIC
 N.T.S.

- DDC SEQUENCE OF OPERATION**
- A: GENERAL**
- THE DDC PROGRAMS ARE TO BE PROVIDED TO MEET THE CONTROL STRATEGIES SPECIFIED BELOW AND SHALL BE FULLY INTEGRATED WITH THE FACILITIES EXISTING TEMPERATURE CONTROL SYSTEM. TYPICAL OF TBS CONTROLS. THE DDC SYSTEM SHALL HAVE RESIDENT IN ITS MEMORY AND AVAILABLE TO THE PROGRAMS A FULL LIBRARY OF DDC ALGORITHMS, INTRINSIC CONTROL OPERATORS, ARITHMETIC, LOGIC, AND RELATIONAL OPERATORS FOR IMPLEMENTATION OF CONTROL SEQUENCES. REFER TO THE WRITTEN SPECIFICATIONS FOR FURTHER REQUIREMENTS AND OTHER SYSTEMS.
 - ALL DDC SETPOINTS, GAINS, AND TIME CONSTANTS ASSOCIATED WITH THE PROGRAMS SHALL BE AVAILABLE TO THE OPERATOR FOR DISPLAY AND MODIFICATION VIA THE DDC SYSTEM BUILT-IN KEYPAD DISPLAY. PANEL SHALL HAVE PROVISIONS FOR CONNECTIONS TO AN EXTERNAL COMPUTER, PRINTER, INTERNAL NETWORK CARDS AND MODEMS REQUIRED FOR THE INTERNET.
 - PROVIDE INTERCONNECTION TO THE WORKSTATION AS DESCRIBED BELOW AND MORE FULLY ELSEWHERE IN THE WRITTEN SPECIFICATIONS WITH GRAPHICS FOR OPERATOR INTERFACE IDENTICAL FOR ALL SCHOOLS OF ALL EQUIPMENT CONTROL FUNCTIONS.
- B: UNIT VENTILATOR CONTROL:**
- OCCUPIED HEATING/COOLING: DURING OCCUPIED MODE THE DAMPERS SHALL BE POSITIONED FOR INTRODUCTION OF MINIMUM DESIGN OUTSIDE AIR. THE FAN SHALL RUN CONTINUOUSLY. MODULATE THE 2-WAY CONTROL VALVE TO MAINTAIN THE REQUIRED SUPPLY AIR TEMPERATURE TO SATISFY THE ROOM AIR SETPOINT. DAMPERS SHALL MODULATE PER ASHRAE CYCLE II CONTROL.
 - TYPICAL CLASSROOM UNIT VENTILATORS WITH ASSOCIATED DRAFT STOP SYSTEM SHALL HAVE TIGHT SEAL MOTORIZED DAMPERS.
 - IN HEATING OPERATION, FREEZE PROTECTION SENSOR SHALL OPEN THE HEATING VALVE, OPEN THE FACE & BYPASS DAMPER, AND ALARM TO THE BMS.
 - UNIT VENTILATOR SHALL BE SWITCH FROM UNOCCUPIED TO OCCUPIED MODE BY THE EXISTING BMS SCHEDULING.

SYSTEM DESCRIPTION	INPUTS		OUTPUTS		SYSTEM FEATURES	
	ANALOG	DISCRETE	ANALOG	DISCRETE	ALARMS	PROGRAMS
UNIT VENTILATORS	TEMPERATURE/HUMIDITY	PRESSURE	% OPEN	ON/OFF STATUS	ALARM	PRO. MODULATION
SPACE TEMPERATURE	•					
FAN MOTOR						
2 WAY MODULATING VALVE						
R/A-O/A DAMPERS						
OUTSIDE AIR TEMP.						
FACE & BYPASS						
FREEZE STAT/FREEZE PUMP						
FILTER SENSORS						
SMOKE DETECTORS						
BB, CUH, WUH & CONNECTORS						
DIFFERENTIAL ENTHALPY						

- C: BASEBOARD CONTROL:**
- OCCUPIED HEATING: DURING OCCUPIED MODE, THE CONTROL VALVE SHALL MODULATE TO HELP MAINTAIN ROOM SETPOINT.
 - OCCUPIED COOLING: DURING COOLING, THE CONTROL VALVE SHALL REMAIN COMPLETELY CLOSED.



8 CEILING SUPPORTED UV
 N.T.S.

- KEYED NOTES:**
- RECONNECT NEW FLEX COLLAR/UV TO EXISTING SUPPLY DUCT.
 - RECONNECT NEW FLEX COLLAR/UV TO EXISTING O/A DUCT.
 - NEW UNIT VENTILATOR FURNISHED BY THE OWNER AND INSTALLED BY THE HVAC CONTRACTOR. UNIT MUST BE INSTALLED FLUSH WITH THE EXTERIOR WALL CONSTRUCTION FOR AN AIRTIGHT FIT.
 - REFER TO UV COIL PIPING SCHEMATIC. SEE DETAIL 2/H701.
 - DISCONNECT ELECTRIC AND CONTROLS FROM EXISTING UV. PROVIDE NEW CONTROLS TO EXISTING BMS & POWER AS SHOWN ON E101.
 - FIELD VERIFY PIPING, ELECTRICAL, CONTROLS, AND ACCESS. COORDINATE WITH NEW EQUIPMENT CHASSIS AND ORDER CORRECT COMPONENTS TO MINIMIZE FIELD CHANGES.



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 22 Mulberry Street, Suite 2A
 Middletown, NY 10940
 845-343-1451 office
 fellip.com
 FE Job # 21-295

GENERAL NOTES:

- ALL CONDUITS ARE SHOWN DIAGRAMMATICALLY. EXACT RUNS SHALL BE DETERMINED IN FIELD EXCEPT WHERE SPECIFICALLY DIMENSIONED ON CONDUIT LAYOUTS. CONTRACTOR SHALL FOLLOW MINIMUM SPACING REQUIREMENTS TO REDUCE ELECTROMAGNETIC INTERFERENCE. COORDINATE CONDUIT ROUTING WITH ALL OTHER TRADES.
- DEFLECTION/EXPANSION FITTINGS SHALL BE PROVIDED WHERE RIGID METAL CONDUIT CROSSES STRUCTURAL EXPANSION JOINTS.
- ALL SPARE CONDUITS SHALL BE TERMINATED AS SHOWN ON CONDUIT LAYOUTS AND SHALL BE CAPPED 3" ABOVE FINISHED FLOOR.
- NO CONDUIT SHALL BE SMALLER THAN 3/4" UNLESS NOTED OTHERWISE ON PLANS.
- EQUIPMENT FURNISHED BY OTHERS SHALL BE INSTALLED & ENERGIZED BY THE ELECTRICAL CONTRACTOR.
- THE ELECTRICAL SUB CONTRACTOR SHALL NOT ENDANGER THE STABILITY OF THE STRUCTURE OR ANY PART THEREOF BY CUTTING, DRILLING OR OTHERWISE, AND SHALL NOT IN ANY WAY CUT OR ALTER THE WORK OF ANY OTHER CONTRACTOR, EXCEPT WITH THE WRITTEN CONSENT OF AND UNDER THE DIRECTION OF THE ARCHITECT.
- THE ELECTRICAL SUB CONTRACTOR SHALL SECURE ALL APPROVALS AND CERTIFICATES AND PAY ALL FEES FOR ALL THE WORK INSTALLED. CERTIFICATES SHALL BE DELIVERED TO THE OWNER BEFORE FINAL PAYMENT WILL BE MADE.
- ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE LATEST APPLICABLE VERSION OF THE NEC AS WELL AS ALL STATE AND LOCAL CODES.
- THE DRAWINGS INDICATE AND THE SPECIFICATIONS DESCRIBE THE GENERAL ARRANGEMENTS AND LOCATION OF OUTLET BOXES, ETC. THE CONTRACTOR SHALL, WITHOUT EXTRA COST TO THE OWNER, MAKE ALL REASONABLE MODIFICATIONS IN THE WORK AS MAY BE REQUIRED TO PREVENT CONFLICT WITH EXISTING CONDITIONS, THE WORK OF OTHER TRADES AND FOR THE PROPER INSTALLATION OF THE WORK.
- ALL NEW BREAKERS INSTALLED IN EXISTING PANELS SHALL MATCH THE PANEL AIC RATING.
- CLAIMS FOR ADDITIONAL COMPENSATION ARISING DUE TO THE FAILURE OF THE CONTRACTOR TO FULLY UNDERSTAND THE SITE CONDITIONS SHALL NOT BE PAID FOR BY ANY OTHER PARTY.
- CONNECTIONS TO EXISTING WORK:
 - INSTALL NEW WORK AND CONNECT TO EXISTING WORK WITH MINIMUM INTERFERENCE TO EXISTING FACILITIES.
 - TEMPORARY SHUTDOWNS OF EXISTING SERVICES:
 - AT NO ADDITIONAL CHARGES.
 - AT TIMES NOT TO INTERFERE WITH NORMAL OPERATION OF EXISTING SERVICES.
 - ONLY WITH WRITTEN CONSENT OF THE GENERAL CONTRACTOR AND/OR BUILDING OWNERS REPRESENTATIVE.
 - MAINTAIN CONTINUOUS OPERATION OF EXISTING FACILITIES AS REQUIRED WITH NECESSARY TEMPORARY CONNECTIONS BETWEEN NEW AND EXISTING WORK.
 - CONNECT NEW WORK TO EXISTING WORK IN NEAT AND ACCEPTABLE MANNER. RESTORE EXISTING DISTURBED WORK TO ORIGINAL CONDITION, INCLUDING MAINTENANCE OF WIRING CONTINUITY AS REQUIRED.

ELECTRICAL DEMOLITION NOTES:

- COORDINATE WITH MECHANICAL PLANS FOR EXACT AREAS TO BE DEMOLISHED.
- ALL EXISTING DEVICES SCHEDULED TO REMAIN SHALL BE EXTENDED/RE-CIRCUITED TO MAINTAIN CONTINUITY OF CIRCUIT/DEVICES.
- REMOVALS SHALL INCLUDE, BUT NOT BE LIMITED TO DEVICES, FIXTURES, FIRE ALARM DEVICES, DATA/TEL. OUTLETS, POWER CONNECTIONS TO HVAC EQUIPMENT AND DISCONNECT SWITCHES, CONDUIT & WIRING.
- ELECTRICAL SUB CONTRACTOR TO PROVIDE ALL NECESSARY TEMPORARY WORK AND/OR MATERIALS TO RENDER EXISTING SYSTEM OPERATIONAL DURING ALL PHASES OF CONSTRUCTION IN ALL OCCUPIED SPACES, INCLUDING BUT NOT LIMITED TO, POWER, DATA, LIGHTING, EMERGENCY COMPONENTS & ALARMS. COORDINATE WITH ALL TRADES, OWNER AND OVERALL CONSTRUCTION PHASING SCHEDULE.
- ALL CUTTING AND PATCHING NECESSARY FOR THE DEMOLITION WORK SHALL BE THE RESPONSIBILITY OF THIS CONTRACTOR.
- IT SHALL BE THE OWNER'S RESPONSIBILITY TO REMOVE ANY LOOSE EQUIPMENT, FURNITURE, SUPPLIES, ETC. THAT MAY BE LOCATED IN THE AREA OF WORK.
- THE PLANS ARE INTENDED TO CONVEY THE EXTENT AND SCOPE OF THE DEMOLITION WORK. EVERY ITEM INTENDED FOR REMOVAL MAY NOT BE SHOWN. THE CONTRACTOR IS ADVISED TO SURVEY THE PROJECT SITE BEFORE SUBMITTING A BID FOR DEMOLITION WORK.

SCOPE OF ELECTRICAL WORK:

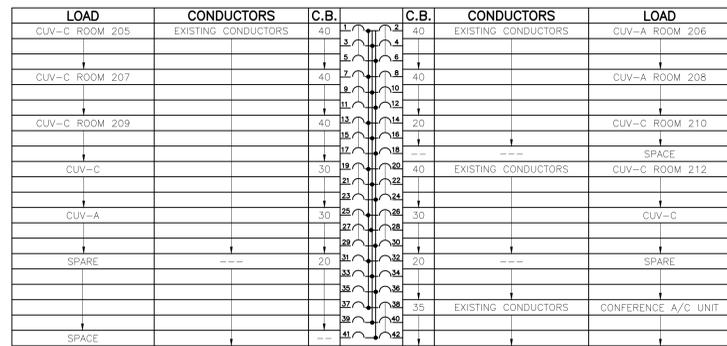
ELECTRICAL SCOPE INCLUDES RE-USE OF EXISTING CIRCUITS (CURRENTLY FEEDING EXISTING CLV'S) TO FEED NEW REPLACEMENT UV'S (BY M.C.). CONTRACTOR SHALL DISCONNECT EXISTING UNITS AND EXTEND CIRCUITS AS NECESSARY TO RECONNECT TO NEW UNITS. EXISTING 3-PHASE CIRCUITS SHALL BE USED TO SUPPLY NEW 1-PHASE UNITS. 3P CIRCUIT BREAKERS SHALL BE REPLACED WITH 1P CIRCUIT BREAKERS AND PANEL WIRING REWORKED TO SUPPORT NEW UNITS' VOLTAGE REQUIREMENTS.

POWER SYMBOLS

⚡ 120V, OR 208V, 1P, MOTOR STARTER WITH OVERLOADS TO SERVE AS DISCONNECTING MEANS. COORDINATE WITH OTHER TRADES.

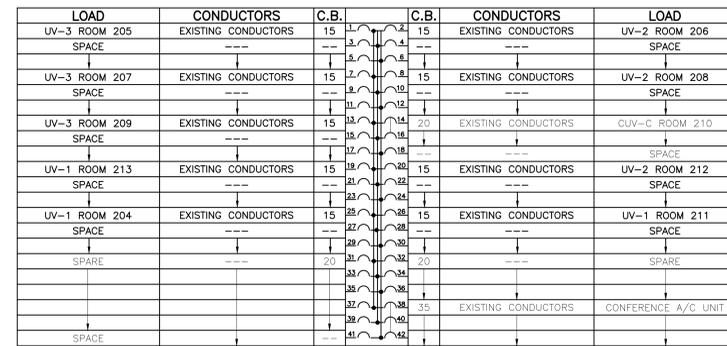
ABBREVIATIONS

A	AMPERE
ACT	ACOUSTIC CEILING TILE
AF	AMPERE FRAME
AFB	ABOVE FINISHED FLOOR
AIC	AMPERE INTERRUPTING CAPACITY
AUTO	AUTOMATIC
AWG	AMERICAN WIRE GAUGE
C	CONDUIT
CAT	CATALOG
CB	CIRCUIT BREAKER
CKT	CIRCUIT
CLG	CEILING
CU	COPPER
DWG	DRAWING
EA	EACH
E.C.	ELECTRICAL CONTRACTOR
ELEC.	ELECTRICAL
ELEV	ELEVATOR
EQUIP.	EQUIPMENT
EMT	ELECTRICAL METALLIC TUBING
FL	FLOOR
FLEX	FLEXIBLE
FT	FEET OR FOOT
F.W.E.	FURNISHED WITH EQUIPMENT
G. GND	GROUND
G.C.	GENERAL CONTRACTOR
HVAC	HEATING, VENTILATING & AIR CONDITIONING
HZ	HERTZ
IC	INTERRUPTING CAPACITY
IMC	INTERMEDIATE METAL CONDUIT
KV	KILO VOLT
KVA	KILO VOLT AMP
KW	KILO WATT
LP	LIGHTING PANEL
LTG	LIGHTING
M.C.	MECHANICAL CONTRACTOR
MCM	THOUSAND CIRCULAR MILS
MCB	MAIN CIRCUIT BREAKER
MECH	MECHANICAL
MTD	MOUNTED
MTG	MOUNTING
N	NEUTRAL
NC	NOT IN CONTRACT
NEC	NATIONAL ELECTRIC CODE
NTS	NOT TO SCALE
NM	NON-METALLIC CONDUIT
P	POLE
∅	PHASE
PWR	POWER
RECEPT.	RECEPTACLE
REQ.	REQUIRED
RM	ROOM
RR	REMOVE AND RELOCATE
SCHED.	SCHEDULE
SECT.	SECTION
SPEC.	SPECIFICATION
SW	SWITCH
SYS	SYSTEM
TYP	TYPICAL
U.N.O.	UNLESS NOTED OTHERWISE
UV	UNIT VENTILATOR
VIF	VERIFY IN FIELD
W	WATT



EXISTING POWER PANEL SCHEDULE - (PP-2F)

RATING: 400A, 208/120, 3∅, 4W
 MAINS: 400A MCB
 BRACING: 22,000
 POLES: 42



REVISED POWER PANEL SCHEDULE - (PP-2F)

RATING: 400A, 208/120, 3∅, 4W
 MAINS: 400A MCB
 BRACING: 22,000
 POLES: 42

- NOTES:**
- REMOVE 3 POLE CIRCUIT BREAKERS FEEDING EXISTING CLV'S AND REPLACE WITH 15A, 1-POLE CIRCUIT BREAKER. PROVIDE BLANK COVER PLATES FOR SPACES. SAFE OFF EXISTING UNUSED WIRES.

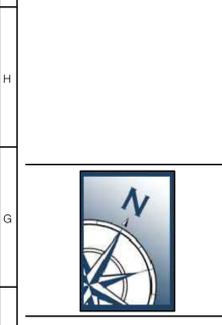
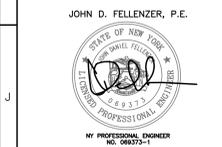
GENERAL SYMBOLS

- ⊕ POINT OF CONNECTION BETWEEN NEW AND EXISTING WORK
- ⊖ POINT OF DISCONNECT
- X INDICATES SECTION LETTER
- XX INDICATES DRAWING NUMBER WHERE LOCATED

ELECTRICAL LINE TYPES

- EXISTING TO BE REMOVED
- _____ EXISTING TO REMAIN
- _____ NEW DEVICE/WIRING

SED #66-13-01-04-0-006-028



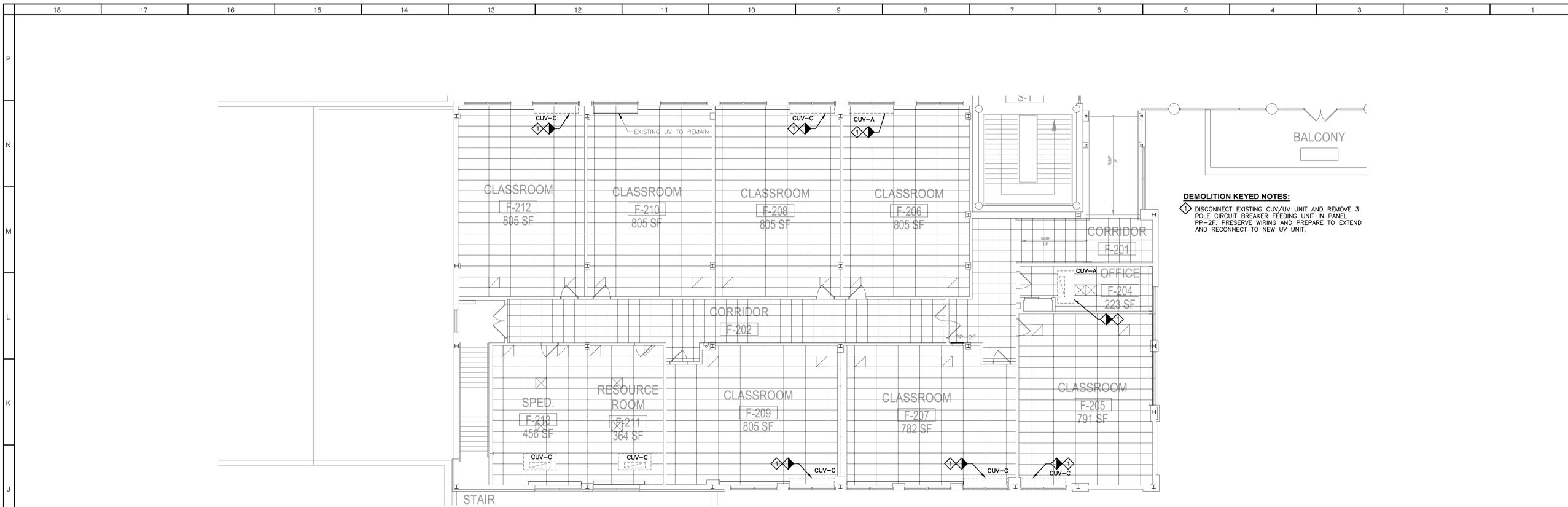
NORTH SALEM WORLD LANGUAGES UV REPLACEMENT

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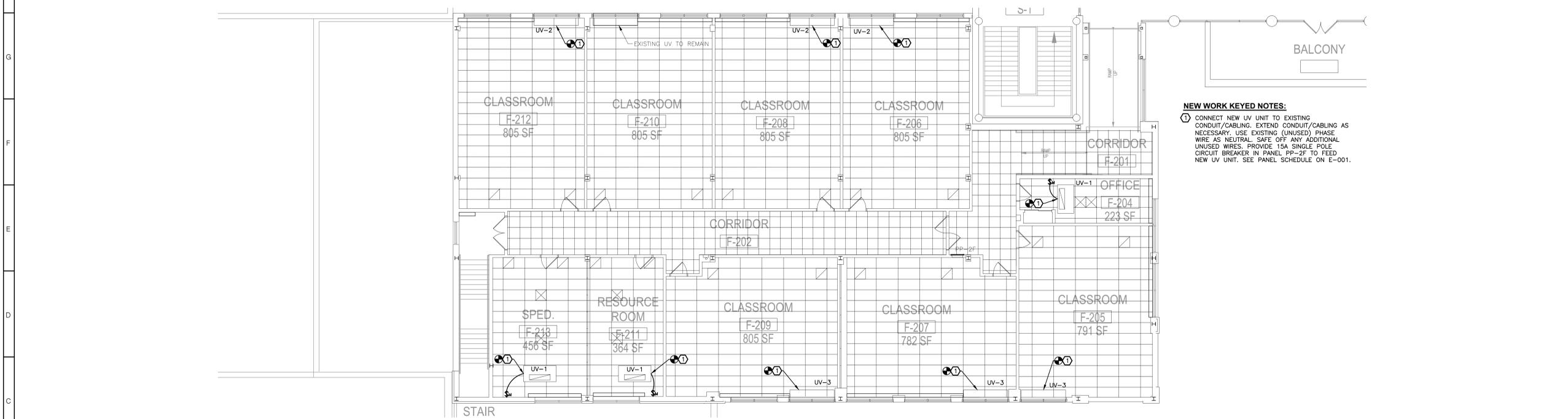
REVISIONS

No.	Description	Date

ISSUED: BID ISSUANCE
DATE: February 23, 2022
SCALE: AS SHOWN
SHEET NAME: ELECTRICAL: SYMBOLS, NOTES, ABBREVIATIONS, & SCHEDULES
SHEET NUMBER: E001



1 SECOND LEVEL DEMOLITION ELECTRICAL PLAN
 SCALE: 1/8"=1'-0"
NOTES:
 1. SEE H100 & H101 FOR CEILING REMOVALS.



2 SECOND LEVEL ELECTRICAL PLAN
 SCALE: 1/8"=1'-0"
NOTES:
 1. SEE H100 & H101 FOR CEILING REMOVALS.
 2. EXTEND EXISTING WIRING AS NECESSARY TO ACCOMMODATE NEW UV'S.



**NORTH SALEM
 WORLD LANGUAGES
 UV REPLACEMENT**

230 June Road
 North Salem, NY 10560

REVISIONS

No.	Description	Date

ISSUED: BID ISSUANCE
DATE: February 23, 2022
SCALE: AS SHOWN
SHEET NAME:
 ELECTRICAL: DEMOLITION
 AND NEW CONSTRUCTION
 SECOND & ROOF LEVEL PLANS
SHEET NUMBER: