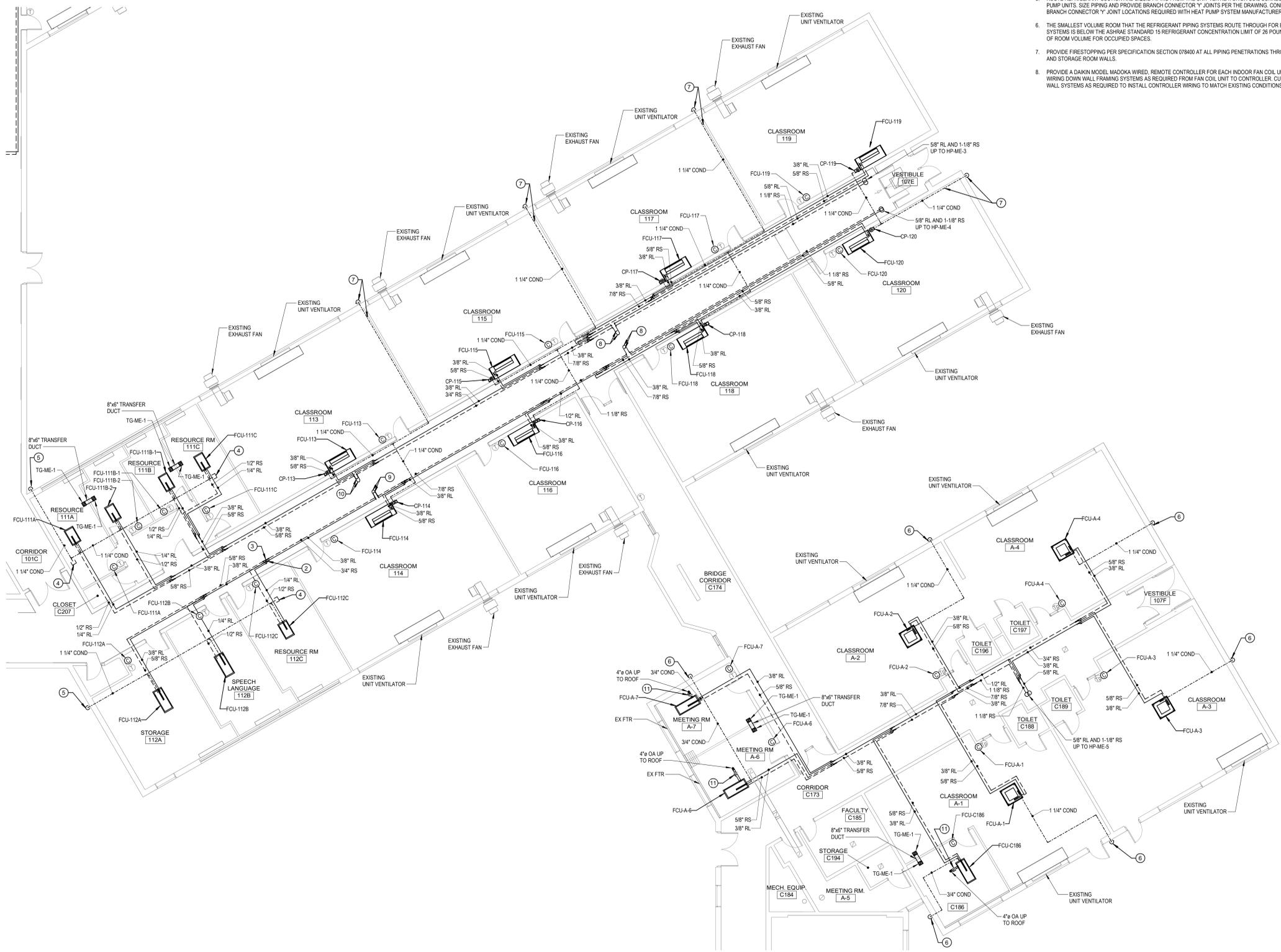


- KEYED NOTES:**
- ROUTE 1-1/4" CONDENSATE DRAIN PIPING INTO JANITOR CLOSET AND TERMINATE DRAIN PIPING OPEN-ENDED WITH MITER CUT OUTLET 6" ABOVE RIM OF EXISTING UTILITY SINK.
 - TYPICAL REFRIGERANT LIQUID BRANCH CONNECTOR "Y" FITTING JOINT.
 - TYPICAL REFRIGERANT SUCTION BRANCH CONNECTOR "Y" FITTING JOINT.
 - PROVIDE CONDENSATE CLEANOUT PLUG AT LOCATIONS SHOWN.
 - PROVIDE 1-1/4" CONDENSATE DRAIN PIPING THROUGH EXTERIOR WALL AT LOCATION SHOWN. TERMINATE WITH MITER CUT ELBOW FACING DOWN AND OPEN-ENDED.
 - PROVIDE 1-1/4" CONDENSATE DRAIN PIPING THROUGH EXTERIOR WALL AT LOCATION SHOWN. TERMINATE WITH MITER CUT ELBOW FACING DOWN AND OPEN-ENDED.
 - ROUTE 1-1/4" CONDENSATE DRAIN PIPING EXPOSED THROUGH CLASSROOM BELOW EXISTING CEILING SYSTEM AND PROVIDE 1-1/4" CONDENSATE DRAIN PIPING THROUGH EXTERIOR WALL AT LOCATION SHOWN. TERMINATE WITH MITER CUT ELBOW FACING DOWN AND OPEN-ENDED. PROVIDE PVC JACKETING OVER EXPOSED, INSULATED PIPING WHERE ROUTED BELOW CEILING SYSTEMS IN CLASSROOMS.

- KEYED NOTES (CONTINUED):**
- PROVIDE UL 207 LISTED EXPANSION LOOP FOR THE 5/8" REFRIGERANT LIQUID AND 1-1/8" REFRIGERANT SUCTION LINES AT LOCATION SHOWN. THE 5/8" LOOP SHALL BE 28-1/2" LONG x 19-3/4" WIDE WITH +4" MOVEMENT. THE 1-1/8" LOOP SHALL BE 30" LONG x 23" WIDE WITH +4" MOVEMENT. PROVIDE PIPE GUIDES ON EITHER SIDE OF LOOP AND PIPE ANCHORS AT END OF PIPING RUNS PER MANUFACTURER'S RECOMMENDATIONS. INSTALL REFRIGERANT MAINS AT DIFFERENT ELEVATIONS TO ALLOW LOOPS TO AVOID CONFLICT ABOVE THE CEILING.
 - PROVIDE UL 207 LISTED EXPANSION LOOP FOR THE 3/8" REFRIGERANT LIQUID AND 3/4" REFRIGERANT SUCTION LINES AT LOCATION SHOWN. THE 3/8" LOOP SHALL BE 28" LONG x 17-1/2" HIGH WITH +4" MOVEMENT. THE 3/4" LOOP SHALL BE 28-1/2" LONG x 19-3/4" WIDE WITH +4" MOVEMENT. PROVIDE PIPE GUIDES ON EITHER SIDE OF LOOP AND PIPE ANCHORS AT END OF PIPING RUNS PER MANUFACTURER'S RECOMMENDATIONS. INSTALL REFRIGERANT MAINS AT DIFFERENT ELEVATIONS TO ALLOW LOOPS TO AVOID CONFLICT ABOVE THE CEILING.
 - PROVIDE UL 207 LISTED EXPANSION LOOP FOR THE 3/8" REFRIGERANT LIQUID AND 5/8" REFRIGERANT SUCTION LINES AT LOCATION SHOWN. THE 3/8" LOOP SHALL BE 28" LONG x 17-1/2" HIGH WITH +4" MOVEMENT. THE 5/8" LOOP SHALL BE 28-1/2" LONG x 19-3/4" WIDE WITH +4" MOVEMENT. PROVIDE PIPE GUIDES ON EITHER SIDE OF LOOP AND PIPE ANCHORS AT END OF PIPING RUNS PER MANUFACTURER'S RECOMMENDATIONS. INSTALL REFRIGERANT MAINS AT DIFFERENT ELEVATIONS TO ALLOW LOOPS TO AVOID CONFLICT ABOVE THE CEILING.
 - BALANCE 4" ROUND OUTSIDE AIR DUCT TO 70 CFM WITH FCU OPERATING AT MAXIMUM SCHEDULED SUPPLY AIRFLOW RATE.

- GENERAL NOTES:**
- REFRIGERANT PIPING NOTE: 90 DEGREE ELBOWS SHALL BE KEPT A MINIMUM OF 20" FROM CEILING UV DX COILS AND 20" FROM BRANCH CONNECTOR "Y" JOINTS. IN ADDITION, BRANCH CONNECTOR "Y" JOINTS SHALL BE A MINIMUM OF 40" FROM ANOTHER BRANCH "Y" CONNECTOR JOINT.
 - REFRIGERANT PIPING NOTE: THE HEAT PUMP SYSTEM MANUFACTURER SHALL INSPECT ALL FIELD INSTALLED REFRIGERANT PIPING PRIOR TO INSULATION INSTALLATION.
 - THE EXISTING SUSPENDED CEILING SYSTEMS LOCATED WITHIN THE SCOPE OF WORK AREA OUTSIDE OF AREAS BEING RENOVATED BY THE GENERAL CONTRACTOR SHALL BE DISCONNECTED AND REMOVED TO ALLOW FOR THE INSTALLATION WORK AND REINSTALLED FOLLOWING COMPLETION OF THE WORK BY THE MECHANICAL CONTRACTOR. THE SUSPENDED CEILING GRID SYSTEMS SHALL BE REMOVED AND MODIFIED TO COMPLETE THE WORK AND REINSTALLED FOLLOWING THE COMPLETION OF WORK. THE CEILING TILES SHALL BE REMOVED AS REQUIRED TO COMPLETE THE WORK AND REINSTALLED FOLLOWING THE COMPLETION OF THE INSTALLATION WORK. ANY CEILING TILES DAMAGED DURING THE INSTALLATION WORK SHALL BE REPLACED BY THE MECHANICAL CONTRACTOR TO MATCH THE EXISTING CEILING TILES.
 - ALL CUTTING, PATCHING, AND FIREPROOFING ASSOCIATED WITH THE INSTALLATION WORK SHALL BE COMPLETED BY THE MECHANICAL CONTRACTOR. PATCHED AREAS SHALL MATCH EXISTING CONDITIONS. ALL REFRIGERANT PIPING AND CONDENSATE PIPING PENETRATIONS THROUGH CORRIDOR WALLS SHALL BE FIREPROOFED PER SPECIFICATION SECTION 075400.
 - ROUTE REFRIGERANT SUCTION AND LIQUID PIPING FROM THE UNIT VENTILATOR DX COIL CONNECTIONS TO THE HEAT PUMP UNITS. SIZE PIPING AND PROVIDE BRANCH CONNECTOR "Y" JOINTS PER THE DRAWING. CONFIRM PIPING SIZES AND BRANCH CONNECTOR "Y" JOINT LOCATIONS REQUIRED WITH HEAT PUMP SYSTEM MANUFACTURER.
 - THE SMALLEST VOLUME ROOM THAT THE REFRIGERANT PIPING SYSTEMS ROUTE THROUGH FOR EACH OF THE HEAT PUMP SYSTEMS IS BELOW THE ASHRAE STANDARD 15 REFRIGERANT CONCENTRATION LIMIT OF 26 POUNDS PER 1,000 CUBIC FEET OF ROOM VOLUME FOR OCCUPIED SPACES.
 - PROVIDE FIRESTOPPING PER SPECIFICATION SECTION 078400 AT ALL PIPING PENETRATIONS THROUGH CORRIDOR WALLS AND STORAGE ROOM WALLS.
 - PROVIDE A DAIKIN MODEL MADOKA WIRED, REMOTE CONTROLLER FOR EACH INDOOR FAN COIL UNIT. ROUTE CONTROLLER WIRING DOWN WALL FRAMING SYSTEMS AS REQUIRED FROM FAN COIL UNIT TO CONTROLLER. CUT AND PATCH EXISTING WALL SYSTEMS AS REQUIRED TO INSTALL CONTROLLER WIRING TO MATCH EXISTING CONDITIONS.



PARTIAL FIRST FLOOR PLAN - A-WING AND MIDDLE WING
 1/8" = 1'-0" **A2**

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NUFSD BOND PROJECTS PHASE 5 - MILLER ES

- SED#50-01-08-03-0-002-020 (HIGHVIEW ES)
 - SED#50-01-08-03-7-001-002 (Maintenance)
 - SED#50-01-08-03-7-012-004 (OEC)
 - SED#50-01-08-03-0-001-028 (MILLER ES)
 - SED#50-01-08-03-0-004-022 (BARR MS)
- Highview Elementary School**
 24 Highview Ave
 Nanuet, NY 10954
OEC Building
 135 Convent Rd
 Nanuet, NY 10954
Maintenance Building
 103 Church St
 Nanuet, NY 10954
Miller Elementary School
 50 Blauvelt Rd Unit
 Nanuet, NY 10954
A MacArthur Barr Middle School
 143 Church St
 Nanuet, NY 10954

KEY PLAN

REVISIONS

No.	Description	Date

ISSUED: BID SET
DATE: 06/21/2024
SCALE: 1/8" = 1'-0"
SHEET NAME:
 PARTIAL FIRST FLOOR PLAN - A-WING AND MIDDLE WING
SHEET NUMBER:

ME-M104

ISSUE FOR BID SET