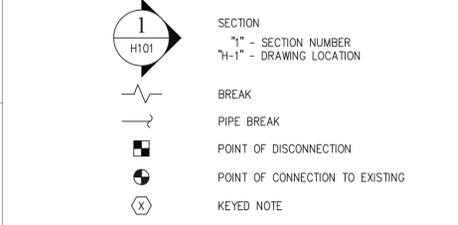
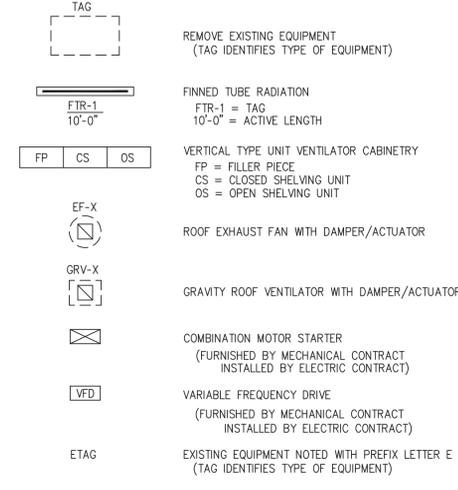


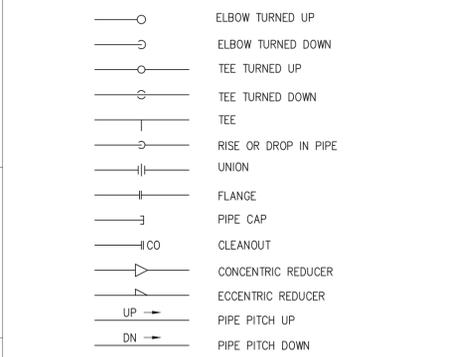
**GENERAL DRAWING SYMBOLS LEGEND**



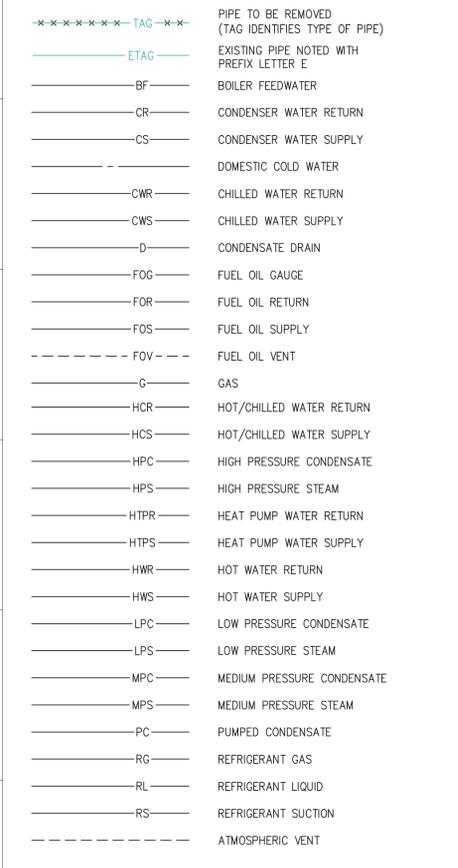
**HVAC EQUIPMENT SYMBOLS LEGEND**



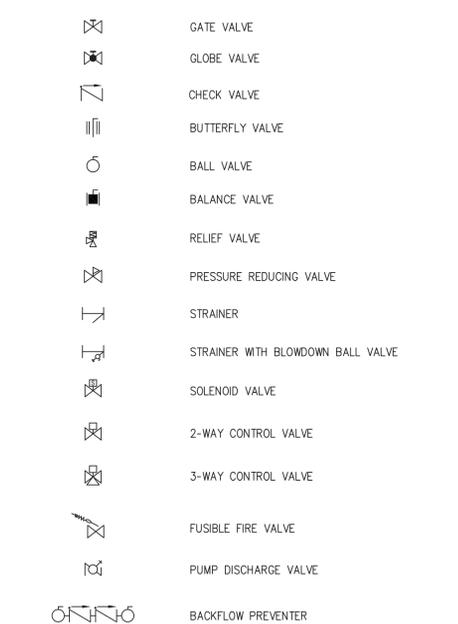
**HVAC PIPE FITTINGS LEGEND**



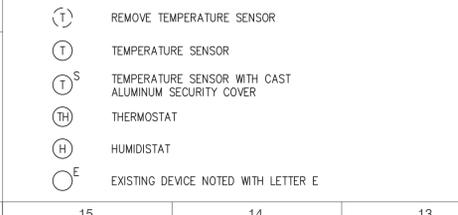
**HVAC PIPE LEGEND**



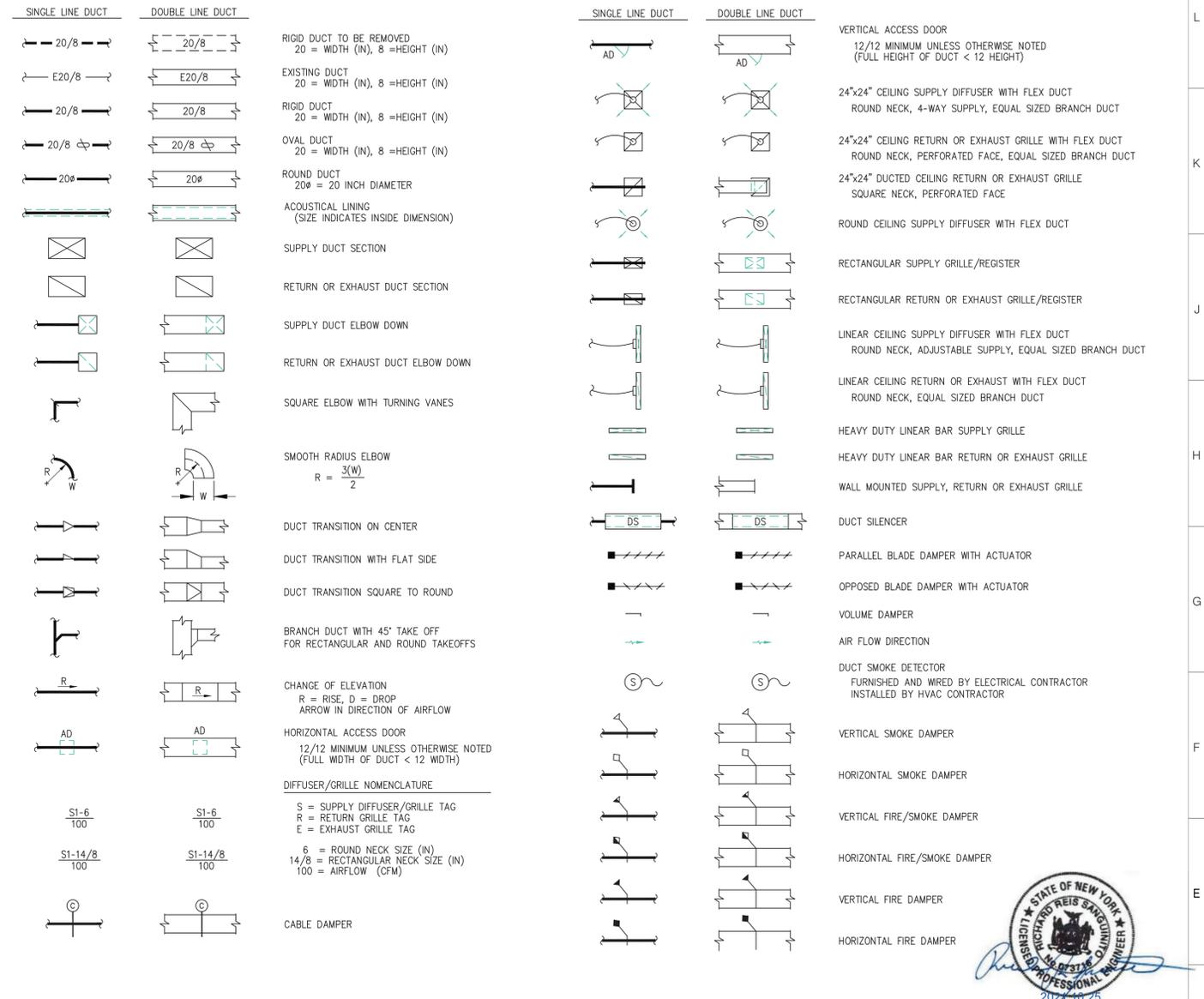
**HVAC VALVE AND SPECIALTIES LEGEND**



**CONTROLS SYMBOLS LEGEND**



**DUCTWORK & ACCESSORIES SYMBOLS LEGEND**



**ABBREVIATIONS**

| ABBREVIATION | DESCRIPTION                    | ABBREVIATION | DESCRIPTION                   | ABBREVIATION | DESCRIPTION                                 | ABBREVIATION | DESCRIPTION                          |
|--------------|--------------------------------|--------------|-------------------------------|--------------|---|--------------|--------------------------------------|
| ACC          | AIR-COOLED CONDENSER           | EF           | EXHAUST FAN                   | L            | LOUVER                                      | RP           | RETURN PANEL                         |
| ACCU         | AIR-COOLED CONDENSING UNIT     | EG           | EXHAUST GRILLE OR REGISTER    | LAT          | LEAVING AIR TEMPERATURE                     | RPM          | REVOLUTIONS PER MINUTE               |
| AD           | ACCESS DOOR                    | EH           | ELECTRIC HEATER               | LBS/HR       | POUNDS PER HOUR                             | RTU          | ROOFTOP UNIT                         |
| AF           | AIR FILTER                     | EHC          | ELECTRIC HEATING COIL         | LF           | LINEAR FOOT                                 | S            | DUCT SMOKE DETECTOR                  |
| AFF          | ABOVE FINISHED FLOOR           | ERC          | ENERGY RECOVERY COIL          | LPC          | LOW PRESSURE CONDENSATE RETURN              | SA           | SUPPLY AIR                           |
| AFM          | AIRFLOW MEASURING DEVICE       | ET           | EXPANSION TANK                | LPS          | LOW PRESSURE STEAM (15 PSIG AND BELOW)      | SD           | SUPPLY DIFFUSER                      |
| AHU          | AIR HANDLING UNIT              | EWT          | ENTERING WATER TEMPERATURE    | LWT          | LEAVING WATER TEMPERATURE                   | SKD          | SMOKE DAMPER                         |
| APD          | AIR PRESSURE DROP              | FC           | FAN COIL UNIT                 | MAX          | MAXIMUM                                     | SF           | SUPPLY AIR FAN                       |
| AS           | AIR SEPARATOR                  | FD           | FIRE DAMPER                   | MBH          | ONE THOUSAND BRITISH THERMAL UNITS PER HOUR | SG           | SUPPLY GRILLE OR REGISTER            |
| AT           | AIR TERMINAL UNIT              | FF           | COMBINATION FIRE/SMOKE DAMPER | MCA          | MINIMUM CURRENT AMPACITY                    | SP           | STATIC PRESSURE                      |
| AV           | AIR VENT                       | FF           | FINAL FILTER                  | MIN          | MINIMUM                                     | SPS          | STATIC PRESSURE SENSOR               |
| B            | BOILER                         | FM           | FLOW MEASURING STATION        | M            | DAMPER ACTUATOR                             | SPG          | SPECIFIC GRAVITY                     |
| BTUH         | BRITISH THERMAL UNITS PER HOUR | FP           | FILLER PIECE                  | MOCP         | MAXIMUM OVERCURRENT PROTECTION              | TAG          | EQUIPMENT IDENTIFICATION             |
| C            | CONNECTOR                      | FPM          | FEET PER MINUTE               | MPC          | MEDIUM PRESSURE CONDENSATE RETURN           | TC           | TOP GRILLE OR REGISTER (WALL TYPE)   |
| CC           | COOLING COIL                   | FT           | FEET                          | MPS          | MEDIUM PRESSURE STEAM (16-59 PSIG)          | TO           | TRANSFER OPENING                     |
| CHLR         | CHILLER                        | FTR          | FINNED TUBE RADIATION         | MV           | MANUAL VENT                                 | TWJ          | THRU-THE-WALL UNIT                   |
| CFM          | CUBIC FEET PER MINUTE          | GAL          | GALLONS                       | NIC          | NOT IN CONTRACT                             | TYP          | TYPICAL                              |
| CH           | CABINET HEATER                 | GC           | GENERAL CONTRACTOR            | NOM          | NOMINAL                                     | UH           | UNIT HEATER                          |
| CO           | CLEAN OUT                      | GPM          | GALLONS PER MINUTE            | OA           | OUTSIDE AIR                                 | UNO          | UNLESS NOTED OTHERWISE               |
| CONT.        | CONTINUED                      | GRV          | GRAVITY ROOF VENTILATOR       | OS           | OPEN SHELVING UNIT                          | UV           | UNIT VENTILATOR                      |
| CS           | CLOSED SHELVING UNIT           | H            | HUMIDIFIER                    | P            | PUMP  | VD           | VOLUME DAMPER (MANUAL OPPOSED BLADE) |
| CT           | COOLING TOWER                  | HC           | HEATING COIL                  | PC           | PUMPED CONDENSATE                           | VFD          | VARIABLE FREQUENCY DRIVE             |
| DB           | DECIBELS                       | HE           | HEAT EXCHANGER                | PD           | PRESSURE DROP                               | VP           | VACUUM PUMP                          |
| DBT          | DRY BULB TEMPERATURE           | HGT          | HEIGHT                        | PF           | PREFILTER                                   | VR           | VACUUM STEAM CONDENSATE RETURN       |
| DIA          | DIAMETER                       | HP           | HORSEPOWER                    | PRV          | PRESSURE REDUCING VALVE                     | WBT          | WET BULB TEMPERATURE (°F)            |
| DPT          | DEW POINT TEMPERATURE          | HPU          | HEAT PUMP                     | PSIG         | POUNDS PER SQUARE INCH WATER GAUGE          | WEF          | WALL TYPE EXHAUST FAN                |
| DS           | DUCT SILENCER                  | HRU          | HEAT RECOVERY UNIT            | RA           | RETURN AIR                                  | WG           | WATER GAUGE                          |
| DX           | DIRECT EXPANSION               | IN           | INCH                          | RF           | RETURN AIR FAN                              | WPD          | WATER PRESSURE DROP                  |
| E'TAG'       | EXISTING EQUIPMENT             | KW           | KILOWATT                      | RG           | RETURN GRILLE OR REGISTER                   | ZD           | ZONE DAMPER                          |
| EA           | EXHAUST AIR                    |              |                               | RM           | ROOM  |              |                                      |
| EAT          | ENTERING AIR TEMPERATURE       |              |                               |              |   |              |                                      |



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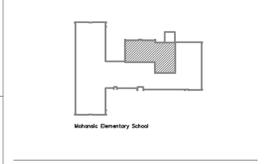
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**SED CONTROL NUMBERS**  
 YHS - #66-24-02-06-0-005-028  
 MS - #66-24-02-06-0-007-027  
 CES - #66-24-02-06-0-003-022  
 MES - #66-24-02-06-0-004-025  
 BES - #66-24-02-06-0-002-020



**DISTRICT WIDE IMPROVEMENTS 2020 PHASE II**

**MOHANSIC ELEMENTARY SCHOOL**  
 704 LOCKSLEY RD.  
 YORKTOWN HEIGHTS, NY 10598

**REVISIONS**

| No. | Description | Date |
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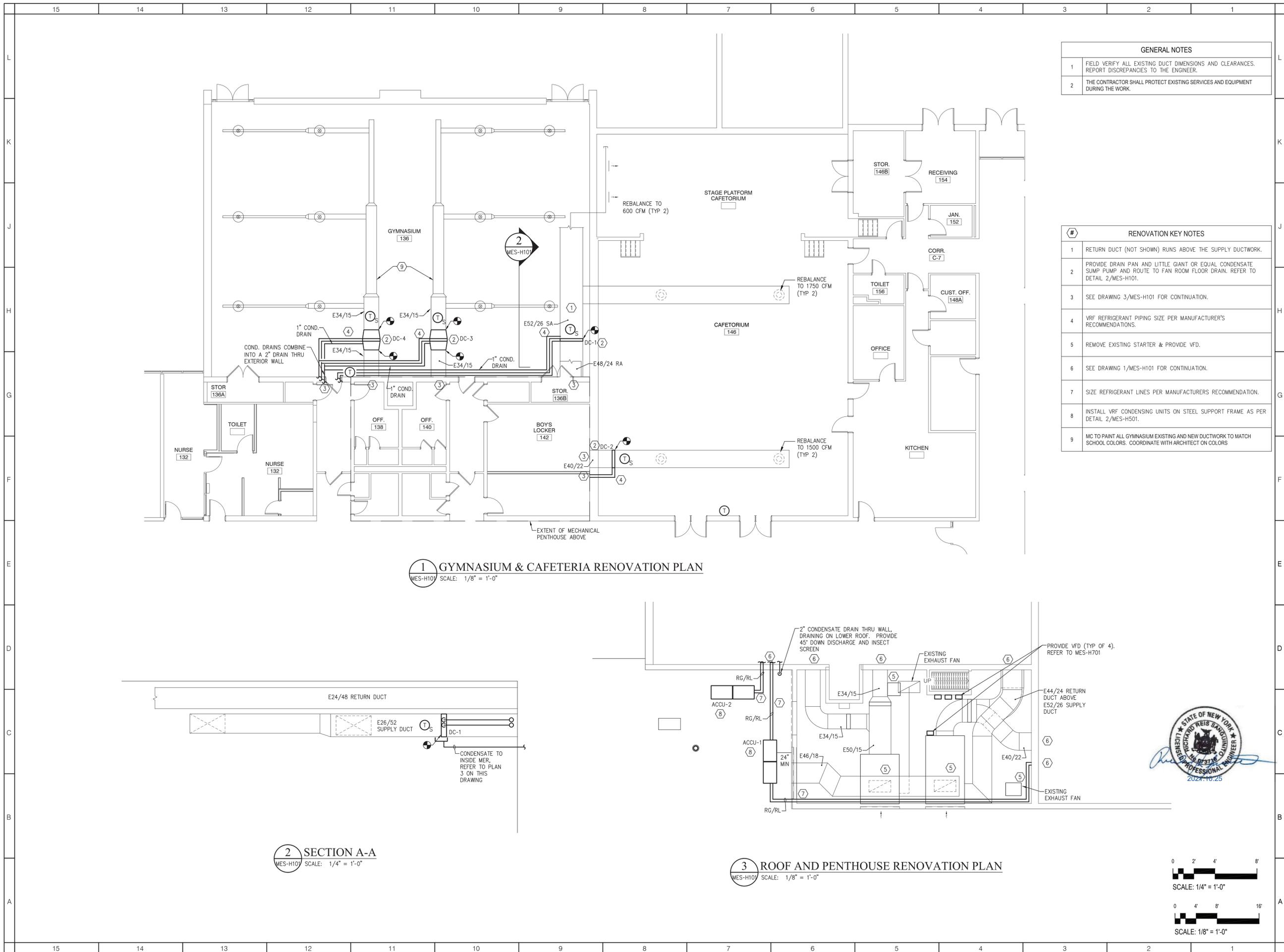
**ISSUED: BID ISSUE**

**DATE: 10/25/2021**

**SHEET NAME: AS NOTED**

**SHEET NAME: HVAC LEGENDS, SYMBOLS & ABBREVIATIONS**

**SHEET NUMBER: MES-H001**



| GENERAL NOTES |   |
|---------------|---|
| 1             | FIELD VERIFY ALL EXISTING DUCT DIMENSIONS AND CLEARANCES. REPORT DISCREPANCIES TO THE ENGINEER. |
| 2             | THE CONTRACTOR SHALL PROTECT EXISTING SERVICES AND EQUIPMENT DURING THE WORK.                   |

| RENOVATION KEY NOTES |   |
|----------------------|---|
| 1                    | RETURN DUCT (NOT SHOWN) RUNS ABOVE THE SUPPLY DUCTWORK.   |
| 2                    | PROVIDE DRAIN PAN AND LITTLE GIANT OR EQUAL CONDENSATE SUMP PUMP AND ROUTE TO FAN ROOM FLOOR DRAIN. REFER TO DETAIL 2/MES-H101. |
| 3                    | SEE DRAWING 3/MES-H101 FOR CONTINUATION.  |
| 4                    | VRF REFRIGERANT PIPING SIZE PER MANUFACTURER'S RECOMMENDATIONS.   |
| 5                    | REMOVE EXISTING STARTER & PROVIDE VFD.  |
| 6                    | SEE DRAWING 1/MES-H101 FOR CONTINUATION.  |
| 7                    | SIZE REFRIGERANT LINES PER MANUFACTURERS RECOMMENDATION.  |
| 8                    | INSTALL VRF CONDENSING UNITS ON STEEL SUPPORT FRAME AS PER DETAIL 2/MES-H501.   |
| 9                    | MC TO PAINT ALL GYMNASIUM EXISTING AND NEW DUCTWORK TO MATCH SCHOOL COLORS. COORDINATE WITH ARCHITECT ON COLORS                 |

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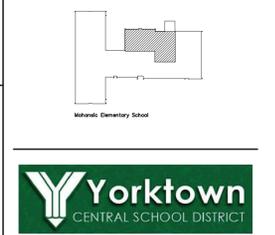
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**SED CONTROL NUMBERS**

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|-------|------------------------|
| YHS - | #66-24-02-06-0-005-028 |
| MS -  | #66-24-02-06-0-007-027 |
| CES - | #66-24-02-06-0-003-022 |
| MES - | #66-24-02-06-0-004-025 |
| BES - | #66-24-02-06-0-002-020 |

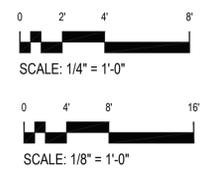


DISTRICT WIDE  
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 PHASE II  
 MOHANSIC ELEMENTARY  
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 704 LOCKSLEY RD.  
 YORKTOWN HEIGHTS, NY 10598

**REVISIONS**

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**ISSUED:** BID ISSUE  
**DATE:** 10/25/2021  
**SCALE:** AS NOTED  
**SHEET NAME:**  
 GYMNASIUM, CAFETERIA, &  
 ROOF RENOVATION PLANS  
**SHEET NUMBER:**  
**MES-H101**



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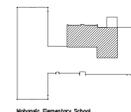
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DISTRICT WIDE  
IMPROVEMENTS 2020  
PHASE II

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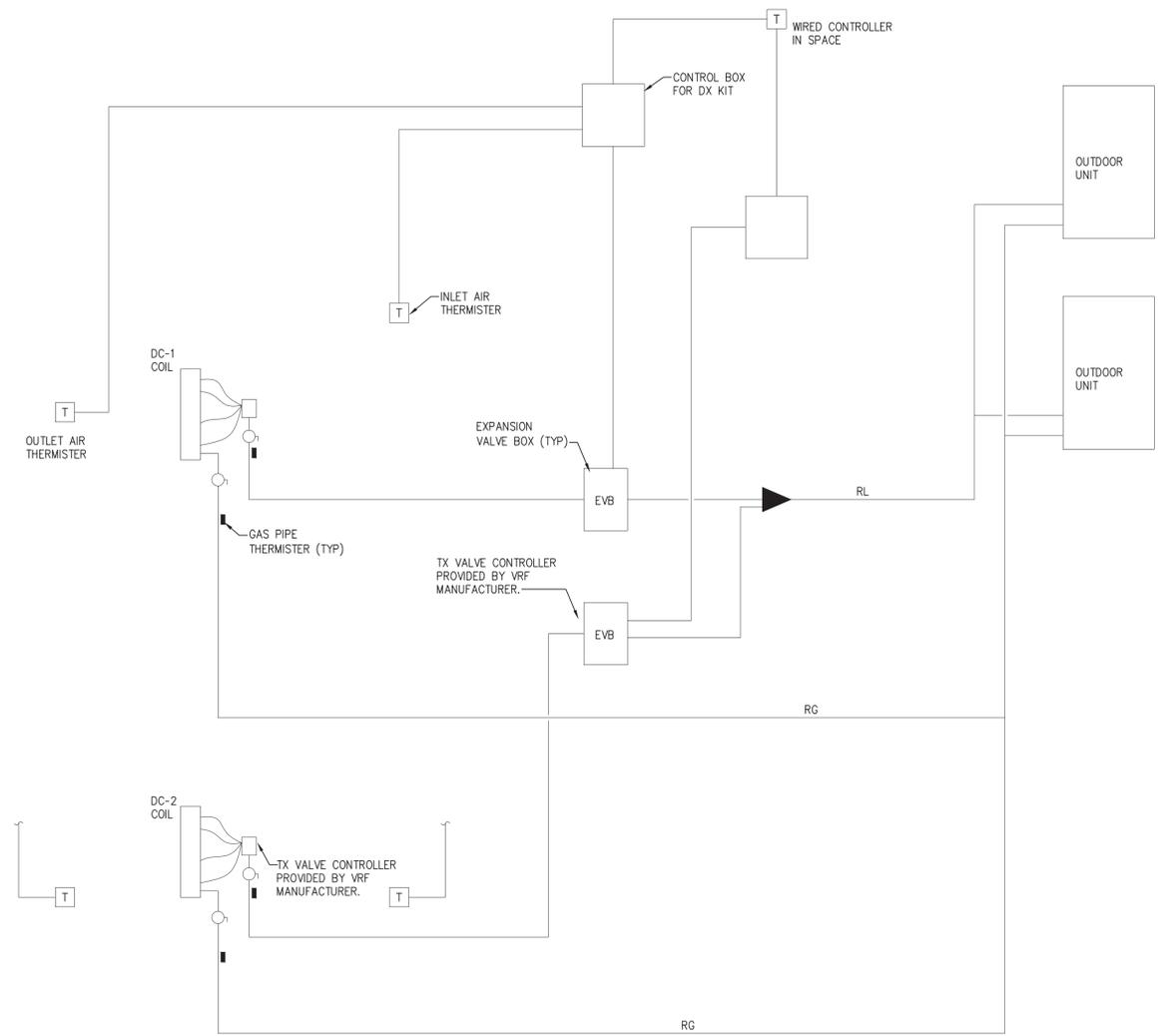
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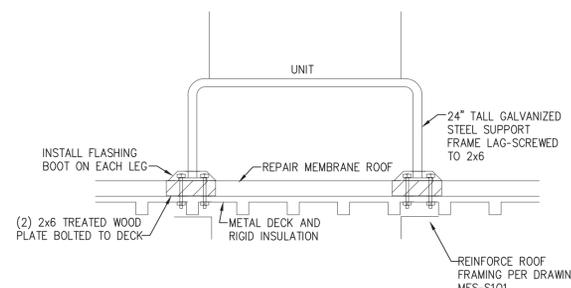
**SHEET NAME:**  
DETAILS & SCHEDULES

**SHEET NUMBER:**

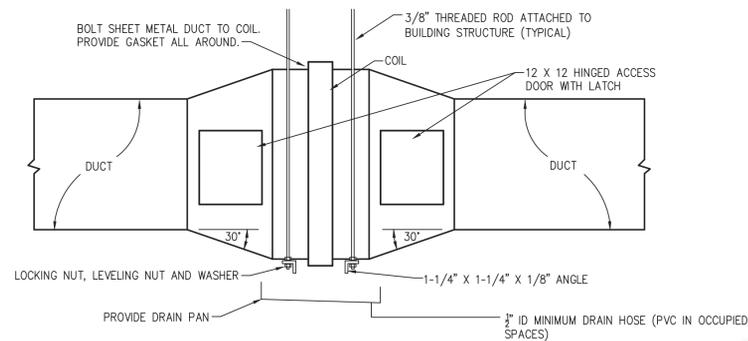
**MES-H501**



**1 CONDENSING UNIT PIPING DETAIL**  
MES-H501 SCALE: NOT TO SCALE



**2 ROOF SUPPORT DETAIL**  
MES-H501 SCALE: NOT TO SCALE



**3 VRF DUCT COIL**  
MES-H501 SCALE: NOT TO SCALE

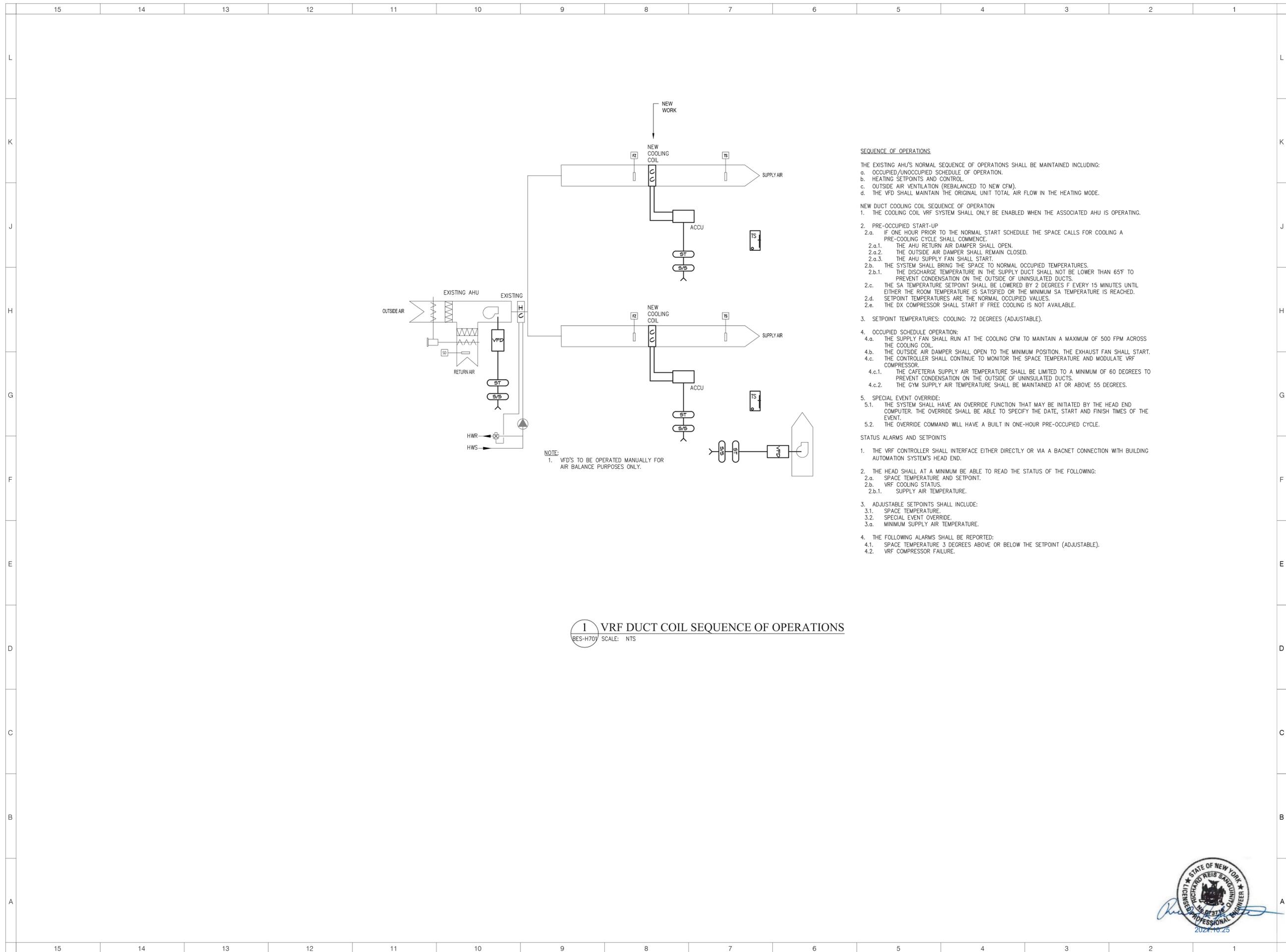


| VRF DUCT COIL SCHEDULE |                    |            |             |      |           |              |          |      |               |               |                       |                 |      |                   |                |               |                     |                                    |        |  |                                      |
|------------------------|--------------------|------------|-------------|------|-----------|--------------|----------|------|---------------|---------------|-----------------------|-----------------|------|-------------------|----------------|---------------|---------------------|------------------------------------|--------|--|--------------------------------------|
| MARK                   | SYSTEM             | TYPE       | REFRIGERANT | CFM  | TOTAL MBH | SENSIBLE MBH | FV (FPM) | APD  | EAT DB/WB (F) | LAT DB/WB (F) | REFRIGERANT SUCTION F | LIQUID TEMP (F) | ROWS | FIN SPACING (FPI) | TUBE SIZE (IN) | NO. OF PASSES | COIL TUBE WALL (IN) | Max COIL VOLUME (IN <sup>3</sup> ) | ACCU   | DIMENSIONS (IN) FINN WIDTH X FINN HEIGHT | REMARKS (BASIS OF DESIGN)            |
| DC-1                   | MOHANSIC CAFETERIA | DX COOLING | R410A       | 3850 | 145.4     | 88.9         | 504      | 0.66 | 80.4/69.2     | 60/59.5       | 45                    | 100             | 3    | 15                | 3/8            | 8             | 0.016               | 397                                | ACCU-1 | 50 X 22                                  | CAPITAL COIL MODEL X3-4520-13D-HCA-R |
| DC-2                   | MOHANSIC CAFETERIA | DX COOLING | R410A       | 3850 | 145.4     | 88.9         | 504      | 0.66 | 80.4/69.2     | 60/59.5       | 45                    | 100             | 3    | 15                | 3/8            | 8             | 0.016               | 397                                | ACCU-1 | 50 X 22                                  | CAPITAL COIL MODEL X3-4520-13D-HCA-R |
| DC-3                   | MOHANSIC GYM       | DX COOLING | R410A       | 3100 | 130       | 86           | 451      | 0.66 | 81/68         | 55.4/54.6     | 45                    | 100             | 3    | 16                | 3/8            | 8             | 0.016               | 362                                | ACCU-2 | 45 X 22                                  | CAPITAL COIL MODEL X3-4522-16C-BCA-R |
| DC-4                   | MOHANSIC GYM       | DX COOLING | R410A       | 3100 | 130       | 86           | 451      | 0.66 | 81/68         | 55.4/54.6     | 45                    | 100             | 3    | 16                | 3/8            | 8             | 0.016               | 362                                | ACCU-2 | 45 X 22                                  | CAPITAL COIL MODEL X3-4522-16C-BCA-R |

NOTE: SUPPLY AIR TEMPERATURE SHALL BE HELD AT 60° F MINIMUM FOR DC-1 AND DC-2

| VENTILATION REQUIREMENTS |              |           |            |                      |        |               |
|--------------------------|--------------|-----------|------------|----------------------|--------|---------------|
| Space Designation        | Area SF      | Occupants |            | Ventilation Required |        | Corrected CFM |
|                          |              | /1000 SF  | Total      | Per Occup.           | Per SF |               |
| Mohansic Café            | 3,500        | -         | 200        | 7.50                 | 0.18   | 2,130         |
| Mohansic Gym             | 3,750        | 7         | 26         | 20.00                | 0.18   | 1,200         |
| <b>Total</b>             | <b>7,250</b> |           | <b>226</b> |                      |        | <b>3,330</b>  |

| AIR COOLED CONDENSING UNIT SCHEDULE |          |              |              |            |           |             |     |                   |      |              |                 |         |              |         |                  |
|-------------------------------------|----------|--------------|--------------|------------|-----------|-------------|-----|-------------------|------|--------------|-----------------|---------|--------------|---------|------------------|
| MARK                                | SERVICE  | NOMINAL TONS | REFRIG. TYPE | ELECTRICAL |           |             |     | DISCONNECT        |      |              | BASIS OF DESIGN | REMARKS |              |         |                  |
|                                     |          |              |              | COMPRESSOR | COND. FAN | VOLTS/PH/Hz | MCA | MAXIMUM FUSE SIZE | TYPE | FURNISHED BY |                 |         | INSTALLED BY |         |                  |
| ACCU-1                              | DC-1 & 2 | 20           | R-410A       | 2x2        | -         | 2x2         | -   | 208/3/60          | 46x2 | 60x2         | NEMA 3R         | EC      | EC           | HITACHI | (Y,H)VAHP120B32S |
| ACCU-2                              | DC-3 & 4 | 20           | R-410A       | 2x2        | 2x2       | 2x2         | -   | 208/3/60          | 46x2 | 60x2         | NEMA 3R         | EC      | EC           | HITACHI | (Y,H)VAHP120B32S |



**1 VRF DUCT COIL SEQUENCE OF OPERATIONS**  
 BES-H701 SCALE: NTS

**SEQUENCE OF OPERATIONS**

THE EXISTING AHU'S NORMAL SEQUENCE OF OPERATIONS SHALL BE MAINTAINED INCLUDING:  
 a. OCCUPIED/UNOCCUPIED SCHEDULE OF OPERATION.  
 b. HEATING SETPOINTS AND CONTROL.  
 c. OUTSIDE AIR VENTILATION (REBALANCED TO NEW CFM).  
 d. THE VFD SHALL MAINTAIN THE ORIGINAL UNIT TOTAL AIR FLOW IN THE HEATING MODE.

NEW DUCT COOLING COIL SEQUENCE OF OPERATION  
 1. THE COOLING COIL VRF SYSTEM SHALL ONLY BE ENABLED WHEN THE ASSOCIATED AHU IS OPERATING.

2. PRE-OCCUPIED START-UP
  - 2.a. IF ONE HOUR PRIOR TO THE NORMAL START SCHEDULE THE SPACE CALLS FOR COOLING A PRE-COOLING CYCLE SHALL COMMENCE.
    - 2.a.1. THE AHU RETURN AIR DAMPER SHALL OPEN.
    - 2.a.2. THE OUTSIDE AIR DAMPER SHALL REMAIN CLOSED.
    - 2.a.3. THE AHU SUPPLY FAN SHALL START.
  - 2.b. THE SYSTEM SHALL BRING THE SPACE TO NORMAL OCCUPIED TEMPERATURES.
    - 2.b.1. THE DISCHARGE TEMPERATURE IN THE SUPPLY DUCT SHALL NOT BE LOWER THAN 65°F TO PREVENT CONDENSATION ON THE OUTSIDE OF UNINSULATED DUCTS.
  - 2.c. THE SA TEMPERATURE SETPOINT SHALL BE LOWERED BY 2 DEGREES F EVERY 15 MINUTES UNTIL EITHER THE ROOM TEMPERATURE IS SATISFIED OR THE MINIMUM SA TEMPERATURE IS REACHED.
- 2.d. SETPOINT TEMPERATURES ARE THE NORMAL OCCUPIED VALUES.
- 2.e. THE DX COMPRESSOR SHALL START IF FREE COOLING IS NOT AVAILABLE.

3. SETPOINT TEMPERATURES: COOLING: 72 DEGREES (ADJUSTABLE).

4. OCCUPIED SCHEDULE OPERATION:
  - 4.a. THE SUPPLY FAN SHALL RUN AT THE COOLING CFM TO MAINTAIN A MAXIMUM OF 500 FPM ACROSS THE COOLING COIL.
  - 4.b. THE OUTSIDE AIR DAMPER SHALL OPEN TO THE MINIMUM POSITION. THE EXHAUST FAN SHALL START.
  - 4.c. THE CONTROLLER SHALL CONTINUE TO MONITOR THE SPACE TEMPERATURE AND MODULATE VRF COMPRESSOR.
    - 4.c.1. THE CAFETERIA SUPPLY AIR TEMPERATURE SHALL BE LIMITED TO A MINIMUM OF 60 DEGREES TO PREVENT CONDENSATION ON THE OUTSIDE OF UNINSULATED DUCTS.
    - 4.c.2. THE GYM SUPPLY AIR TEMPERATURE SHALL BE MAINTAINED AT OR ABOVE 55 DEGREES.

5. SPECIAL EVENT OVERRIDE:
  - 5.1. THE SYSTEM SHALL HAVE AN OVERRIDE FUNCTION THAT MAY BE INITIATED BY THE HEAD END COMPUTER. THE OVERRIDE SHALL BE ABLE TO SPECIFY THE DATE, START AND FINISH TIMES OF THE EVENT.
  - 5.2. THE OVERRIDE COMMAND WILL HAVE A BUILT IN ONE-HOUR PRE-OCCUPIED CYCLE.

**STATUS ALARMS AND SETPOINTS**

1. THE VRF CONTROLLER SHALL INTERFACE EITHER DIRECTLY OR VIA A BACNET CONNECTION WITH BUILDING AUTOMATION SYSTEM'S HEAD END.
2. THE HEAD SHALL AT A MINIMUM BE ABLE TO READ THE STATUS OF THE FOLLOWING:
  - 2.a. SPACE TEMPERATURE AND SETPOINT.
  - 2.b. VRF COOLING STATUS.
    - 2.b.1. SUPPLY AIR TEMPERATURE.
3. ADJUSTABLE SETPOINTS SHALL INCLUDE:
  - 3.1. SPACE TEMPERATURE.
  - 3.2. SPECIAL EVENT OVERRIDE.
  - 3.a. MINIMUM SUPPLY AIR TEMPERATURE.
4. THE FOLLOWING ALARMS SHALL BE REPORTED:
  - 4.1. SPACE TEMPERATURE 3 DEGREES ABOVE OR BELOW THE SETPOINT (ADJUSTABLE).
  - 4.2. VRF COMPRESSOR FAILURE.

ARCHITECT



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 845 473 6300 office  
 845 473 1453 fax

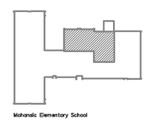
**MEP Engineer**  
**DELTA Engineers, Architects, & Land Surveyors, DPC**  
 220 Harborside Dr, Suite #202  
 Schenectady, NY 12305  
 518.690.0046 office

**Structural Engineer**  
**Clapper Structural Engineering, PLLC**  
 160 Partition Street  
 Saugerties, New York 12477  
 845.943.9601 office  
 www.clapperstructural.com

**Civil Engineer**  
**The Chazen Companies**  
 547 River Street  
 Troy, New York 12180  
 518.266.7323 office  
 www.chazencompanies.com

**SED CONTROL NUMBERS**

- YHS - #66-24-02-06-0-005-028
- MS - #66-24-02-06-0-007-027
- CES - #66-24-02-06-0-003-022
- MES - #66-24-02-06-0-004-025
- BES - #66-24-02-06-0-002-020



DISTRICT WIDE IMPROVEMENTS 2020 PHASE II

MOHANSIC ELEMENTARY SCHOOL  
 704 LOCKSLEY RD.  
 YORKTOWN HEIGHTS, NY 10598

REVISIONS

| No. | Description | Date |
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ISSUED: BID ISSUE  
 DATE: 10/25/2021  
 SCALE: AS NOTED  
 SHEET NAME: CONTROL DIAGRAMS

SHEET NUMBER:  
**MES-H701**

