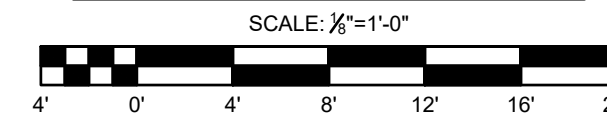
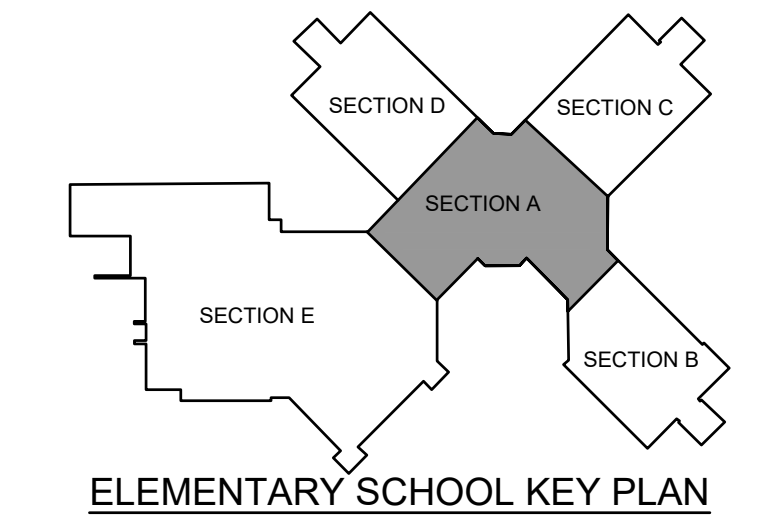


FIRST FLOOR - SECTION A  
PARTIAL PLAN - PROPOSED



**INSTALLATION NOTES**

- ◇ PROVIDE NEW FLOOR MOUNTED UNIT VENTILATOR. EXTEND EXISTING HOT WATER PIPING TO UNIT CONNECTION LOCATION. PROVIDE NEW CONDENSATE DRAIN TO EXISTING DRAIN CONNECTION.
- ◇ PROVIDE NEW HORIZONTAL UNIT VENTILATOR, FAN COIL UNIT, OR AIR HANDLING UNIT. PROVIDE NEW FLEXIBLE CONNECTION AT UNIT AND EXTEND NEW DUCTWORK AND INSULATION TO CONNECT TO EXISTING DUCTWORK. SEAL INSULATION AT CONNECTION TO EXISTING. PROVIDE NEW CONDENSATE DRAIN TO EXISTING CONDENSATE DRAIN PIPING.
- ◇ PROVIDE NEW DUCT MOUNTED HEATING COIL. EXTEND EXISTING HOT WATER PIPING AND PROVIDE NEW ELECTRONIC CONTROL VALVE. SEE DETAIL ON DWG M-1-01.
- ◇ PROVIDE NEW ELECTRONIC CONTROL VALVE AND EXTEND HOT WATER PIPING TO UNIT. SEE HOT WATER COIL PIPING DETAIL ON DWG M-1-01.
- ◇ PROVIDE NEW ELECTRONIC DAMPER ACTUATOR.
- ◇ PROVIDE NEW THERMOSTAT.
- ◇ PROVIDE NEW OUTDOOR CONDENSING UNIT MOUNTED ON CONCRETE PAD.
- ◇ PROVIDE NEW REFRIGERANT PIPING INSTALLED PER MANUFACTURER'S RECOMMENDATIONS. INSTALL LINEAR EXPANSION VALVE (LEV KITS WHERE REQUIRED).
- ◇ PROVIDE NEW BRANCH CONTROLLER AND INSTALL PER MANUFACTURER'S RECOMMENDATIONS.



RELEASED FOR:  
**CONSTRUCTION**



SPOTTS, STEVENS & MCCOY  
Engineers and Consultants  
1700 SCHUYLKILL VALLEY  
SPOTSWOOD, PENNSYLVANIA 17057  
TEL: 717-939-1100  
FAX: 717-939-1101  
WWW.SSM-PA.COM

SCHUYLKILL VALLEY  
SCHOOL DISTRICT  
BERKS COUNTY, PENNSYLVANIA  
MECHANICAL  
HVAC UPGRADE  
FIRST FLOOR - SECTION A - PROPOSED  
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10/29/21 103916.0008  
DATE DIGITAL FILENAME

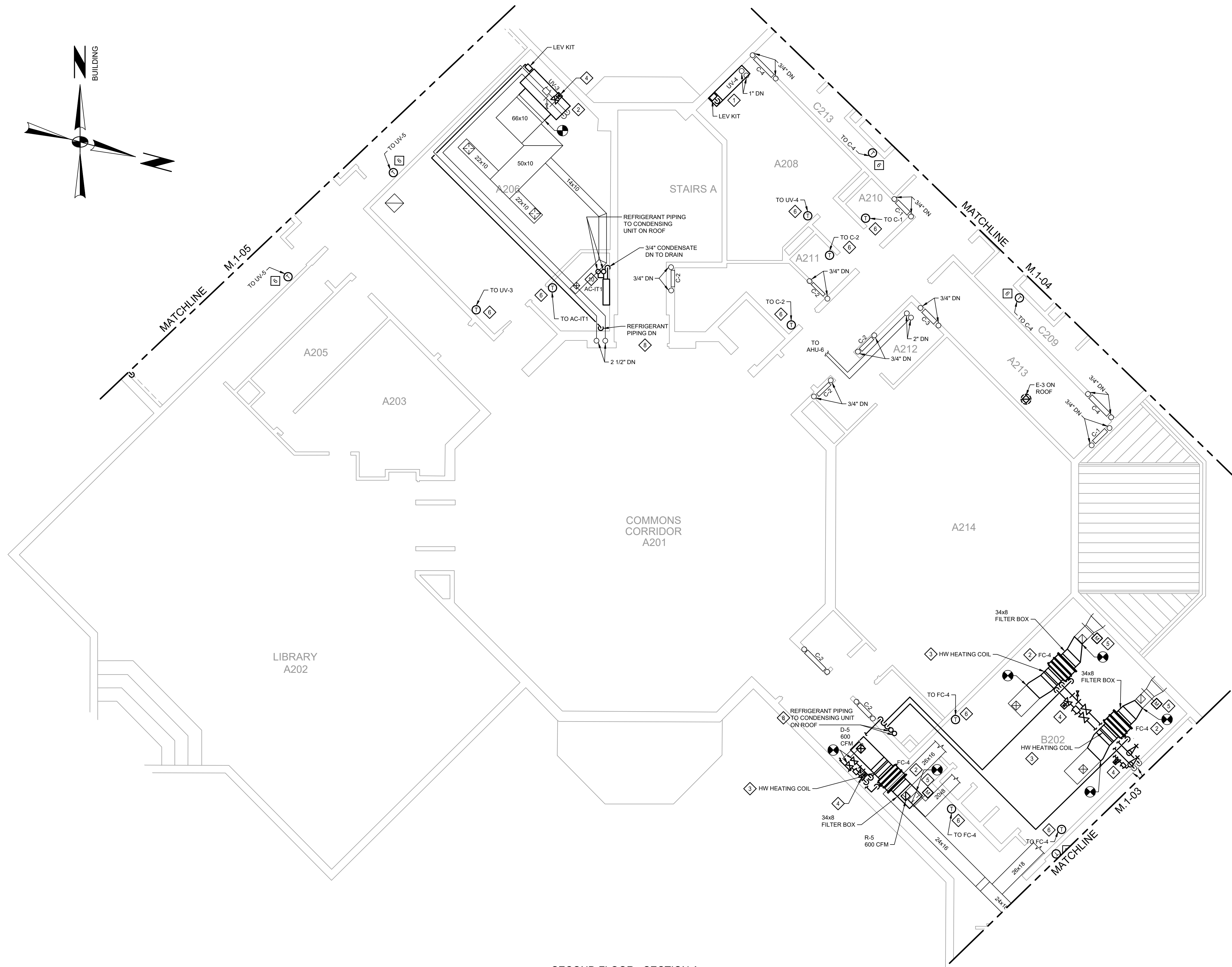
103916.0008  
WORK ORDER NUMBER

M.1-01  
DRAWING NUMBER

NO.	DATE	ISSUED FOR CONSTRUCTION	DESCRIPTION	BY	CHKD.
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2	08/15/22			MMH	MMH
3	08/15/22			MMH	MMH
4	08/15/22			MMH	MMH
5	08/15/22			MMH	MMH
6	08/15/22			MMH	MMH
7	08/15/22			MMH	MMH
8	08/15/22			MMH	MMH
9	08/15/22			MMH	MMH
10	08/15/22			MMH	MMH

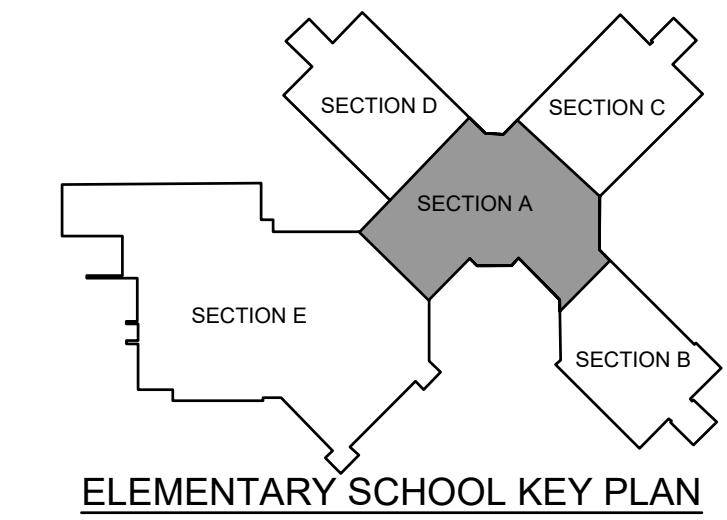
PROJECT MANAGER: MMH N.B. N/A DATE: 09/20/21  
BASE BY: N/A DESIGNED BY: MMH  
DRAWN BY: TMF



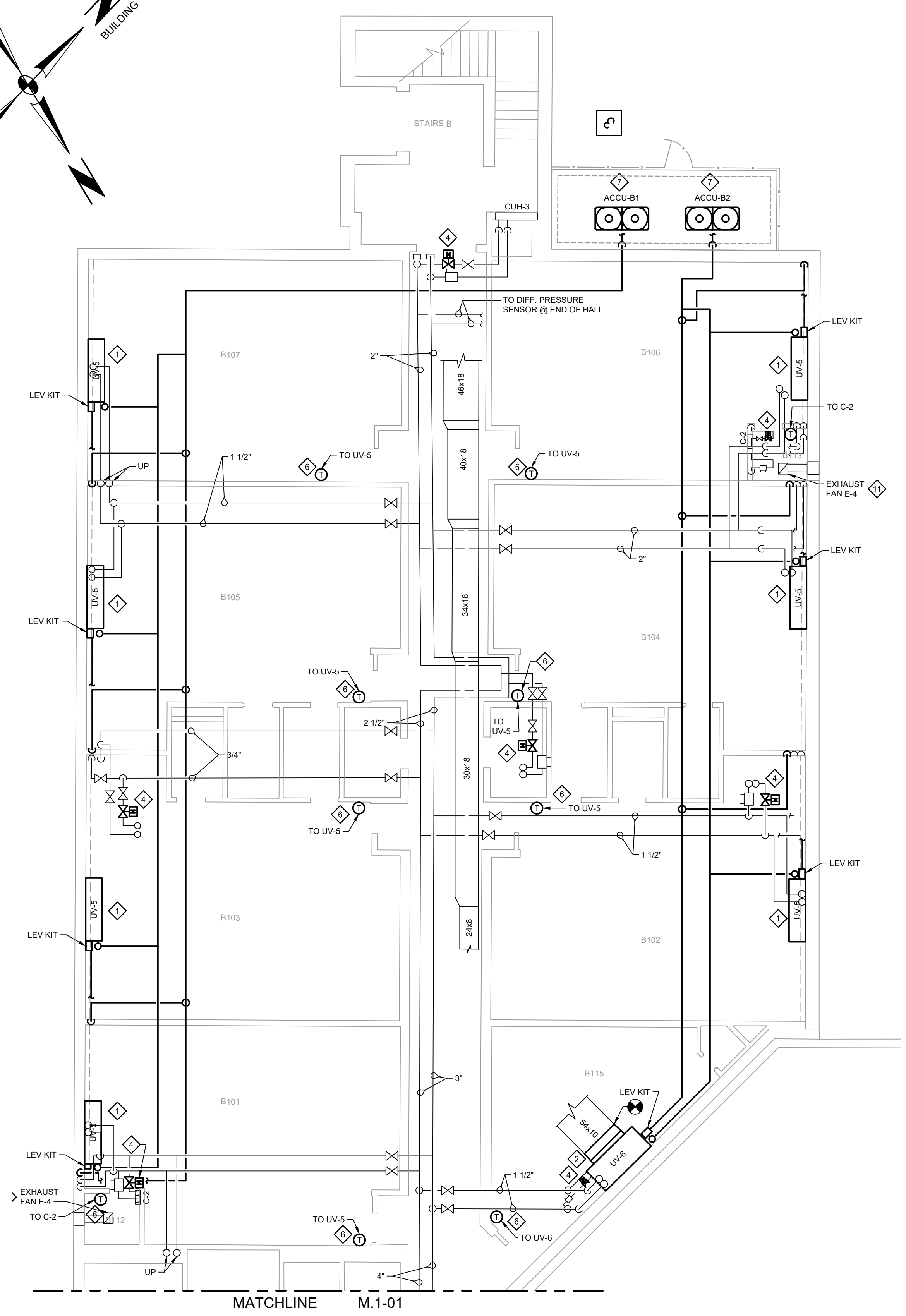
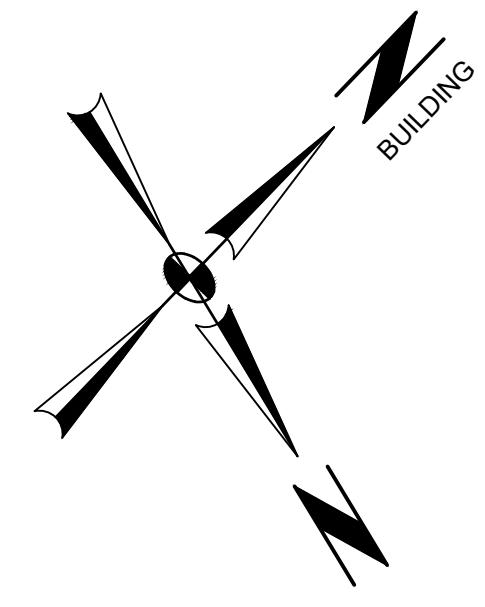
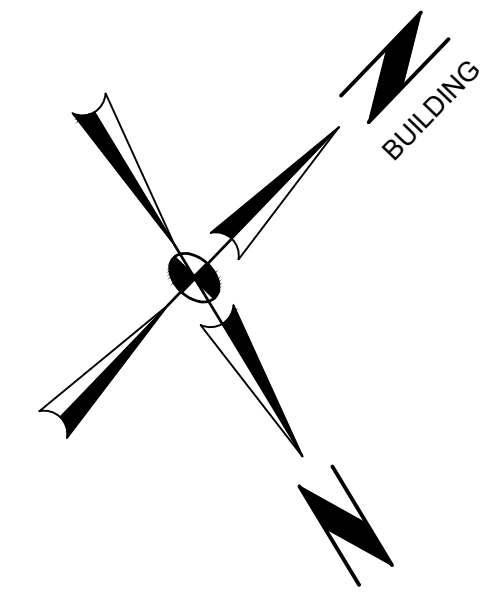


SECOND FLOOR - SECTION A  
PARTIAL PLAN - PROPOSED  
SCALE: 3/8"=1'-0"

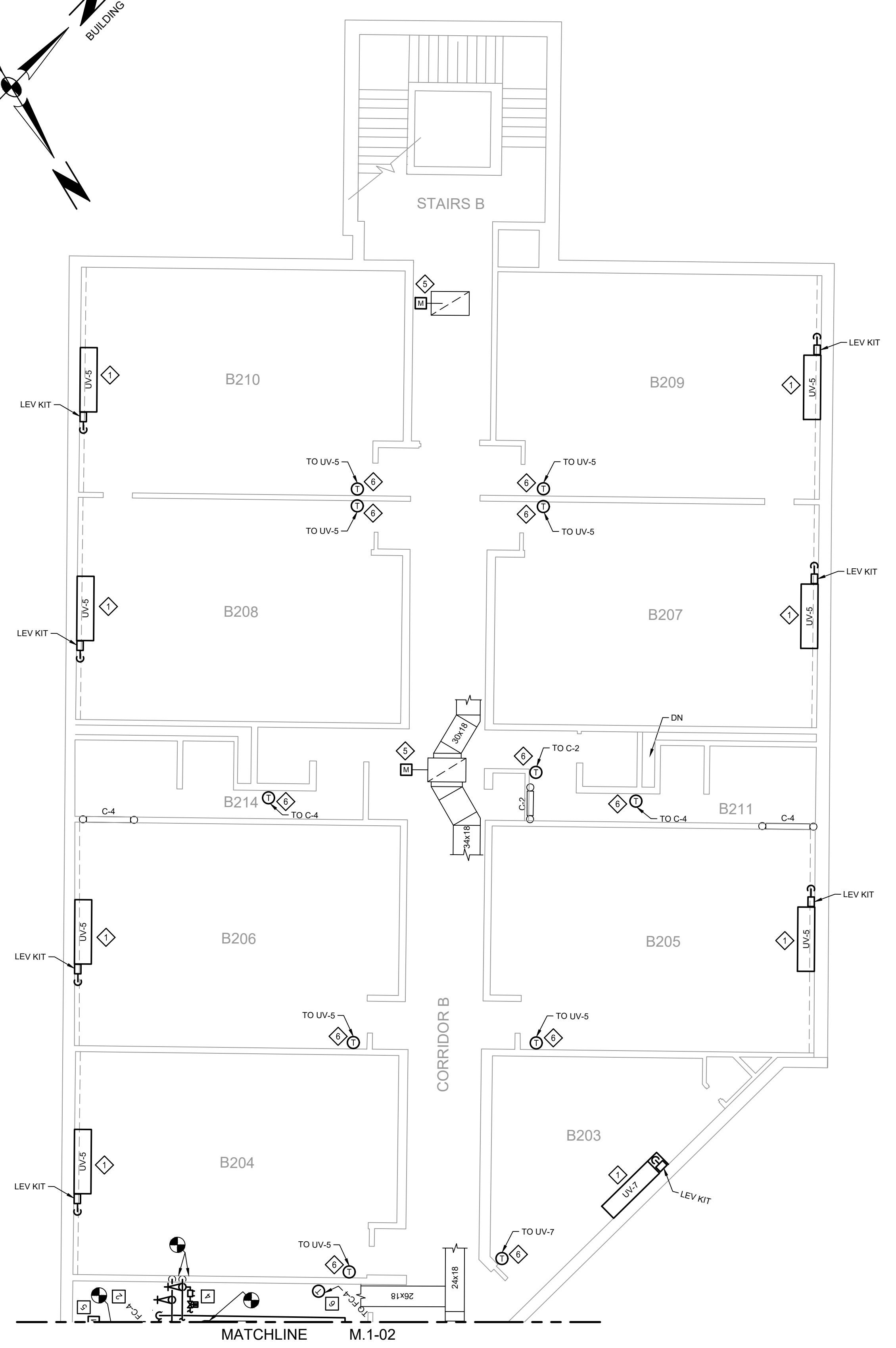
- INSTALLATION NOTES**
- ◆ PROVIDE NEW FLOOR MOUNTED UNIT VENTILATOR. EXTEND EXISTING HOT WATER PIPING TO UNIT CONNECTION LOCATION. PROVIDE NEW CONDENSATE DRAIN TO EXISTING DRAIN CONNECTION.
  - ◆ PROVIDE NEW HORIZONTAL UNIT VENTILATOR, FAN COIL UNIT, OR AIR HANDLING UNIT. PROVIDE NEW FLEXIBLE CONNECTION AT UNIT AND EXTEND NEW DUCTWORK AND INSULATION TO CONNECT TO EXISTING DUCTWORK. SEAL INSULATION AT CONNECTION TO EXISTING. PROVIDE NEW CONDENSATE DRAIN TO EXISTING CONDENSATE DRAIN PIPING.
  - ◆ PROVIDE NEW DUCT MOUNTED HEATING COIL. EXTEND EXISTING HOT WATER PIPING AND PROVIDE NEW ELECTRONIC CONTROL VALVE. SEE DETAIL ON DWG M-4-01.
  - ◆ PROVIDE NEW ELECTRONIC CONTROL VALVE AND EXTEND HOT WATER PIPING TO UNIT. SEE HOT WATER COIL PIPING DETAIL ON DWG M-4-01.
  - ◆ PROVIDE NEW ELECTRONIC DAMPER ACTUATOR.
  - ◆ PROVIDE NEW THERMOSTAT.
  - ◆ PROVIDE NEW OUTDOOR CONDENSING UNIT MOUNTED ON CONCRETE PAD.
  - ◆ PROVIDE NEW REFRIGERANT PIPING INSTALLED PER MANUFACTURER'S RECOMMENDATIONS. INSTALL LEV KITS WHERE REQUIRED.
  - ◆ PROVIDE NEW BRANCH CONTROLLER AND INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
  - ◆ PROVIDE WALL MOUNTED AC UNIT. PROVIDE REFRIGERANT PIPING UP TO ROOF MOUNTED CONDENSING UNIT. PROVIDE CONDENSATE DRAIN DOWN AND CONNECT TO EXISTING CONDENSATE PIPING OR DISCHARGE TO DRAIN WITH AIR GAP.



<b>SCHUYLKILL VALLEY SCHOOL DISTRICT</b>		<b>MECHANICAL</b>	
BERKS COUNTY, PENNSYLVANIA		HVAC UPGRADE	
10/29/21		103916.0008	
DATE		M-1-02	
103916.0008		DIGITAL FILENAME	
WORK ORDER NUMBER			
<b>M.1-02</b>			
DRAWING NUMBER			
PROJECT MANAGER: MMH    N.E.: N/A    DATE: 09/20/21 BASE BY: N/A    DESIGNED BY: MMH    CHD: DRAWN BY: TMF			
RELEASED FOR: <b>CONSTRUCTION</b>			
REVISIONS 1 04/15/22 ISSUED FOR CONSTRUCTION 2 04/15/22 ISSUED FOR CONSTRUCTION 3 04/15/22 ISSUED FOR CONSTRUCTION NO DATE DESCRIPTION			

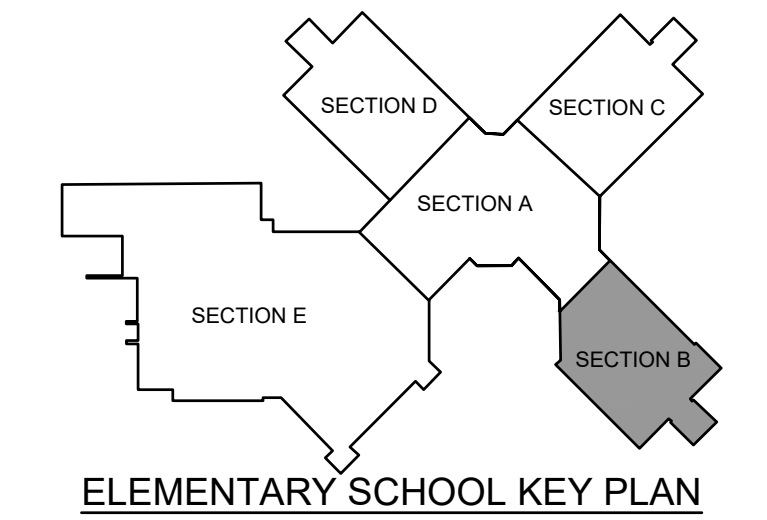


MATCHLINE M.1-01  
**FIRST FLOOR - SECTION B  
 PARTIAL PLAN - PROPOSED**  
 SCALE: 1/8"=1'-0"  
 4 0 4 8 12 16 20



MATCHLINE M.1-02  
**SECOND FLOOR - SECTION B  
 PARTIAL PLAN - PROPOSED**  
 SCALE: 1/8"=1'-0"  
 4 0 4 8 12 16 20

- INSTALLATION NOTES**
- ◇ PROVIDE NEW FLOOR MOUNTED UNIT VENTILATOR. EXTEND EXISTING HOT WATER PIPING TO UNIT CONNECTION LOCATION. PROVIDE NEW CONDENSATE DRAIN TO EXISTING DRAIN CONNECTION.
  - ◇ PROVIDE NEW HORIZONTAL UNIT VENTILATOR, FAN COIL UNIT, OR AIR HANDLING UNIT. PROVIDE NEW FLEXIBLE CONNECTION AT UNIT AND EXTEND NEW DUCTWORK AND INSULATION TO CONNECT TO EXISTING DUCTWORK. SEAL INSULATION AT CONNECTION TO EXISTING. PROVIDE NEW CONDENSATE DRAIN TO EXISTING CONDENSATE DRAIN PIPING.
  - ◇ PROVIDE NEW DUCT MOUNTED HEATING COIL. EXTEND EXISTING HOT WATER PIPING AND PROVIDE NEW ELECTRONIC CONTROL VALVE. SEE DETAIL ON DWG M.4-01.
  - ◇ PROVIDE NEW ELECTRONIC CONTROL VALVE AND EXTEND HOT WATER PIPING TO UNIT. SEE HOT WATER COIL PIPING DETAIL ON DWG M.4-01.
  - ◇ PROVIDE NEW ELECTRONIC DAMPER ACTUATOR.
  - ◇ PROVIDE NEW THERMOSTAT.
  - ◇ PROVIDE NEW OUTDOOR CONDENSING UNIT MOUNTED ON CONCRETE PAD.
  - ◇ PROVIDE NEW REFRIGERANT PIPING INSTALLED PER MANUFACTURER'S RECOMMENDATIONS. INSTALL LEV KITS WHERE REQUIRED.
  - ◇ PROVIDE NEW BRANCH CONTROLLER AND INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
  - ◇ PROVIDE WALL MOUNTED AC UNIT. PROVIDE REFRIGERANT PIPING UP TO ROOF MOUNTED CONDENSING UNIT. PROVIDE CONDENSATE DRAIN DOWN AND CONNECT TO EXISTING CONDENSATE PIPING OR DISCHARGE TO DRAIN WITH AIR GAP.
  - ◇ CONTROLS CONTRACTOR SHALL CONNECT THE EXISTING EXHAUST FANS TO THE BMS.



NO.	DATE	ISSUED FOR CONSTRUCTION	DESCRIPTION
1	04/20/22	ISSUED FOR CONSTRUCTION	ISSUED FOR CONSTRUCTION
2			
3			

RELEASED FOR:  
**CONSTRUCTION**

PROJECT MANAGER: MMH N.E. N/A DATE: 09/20/21  
 BASE BY: N/A DESIGNED BY: MMH CHD:  
 DRAWN BY: TWF

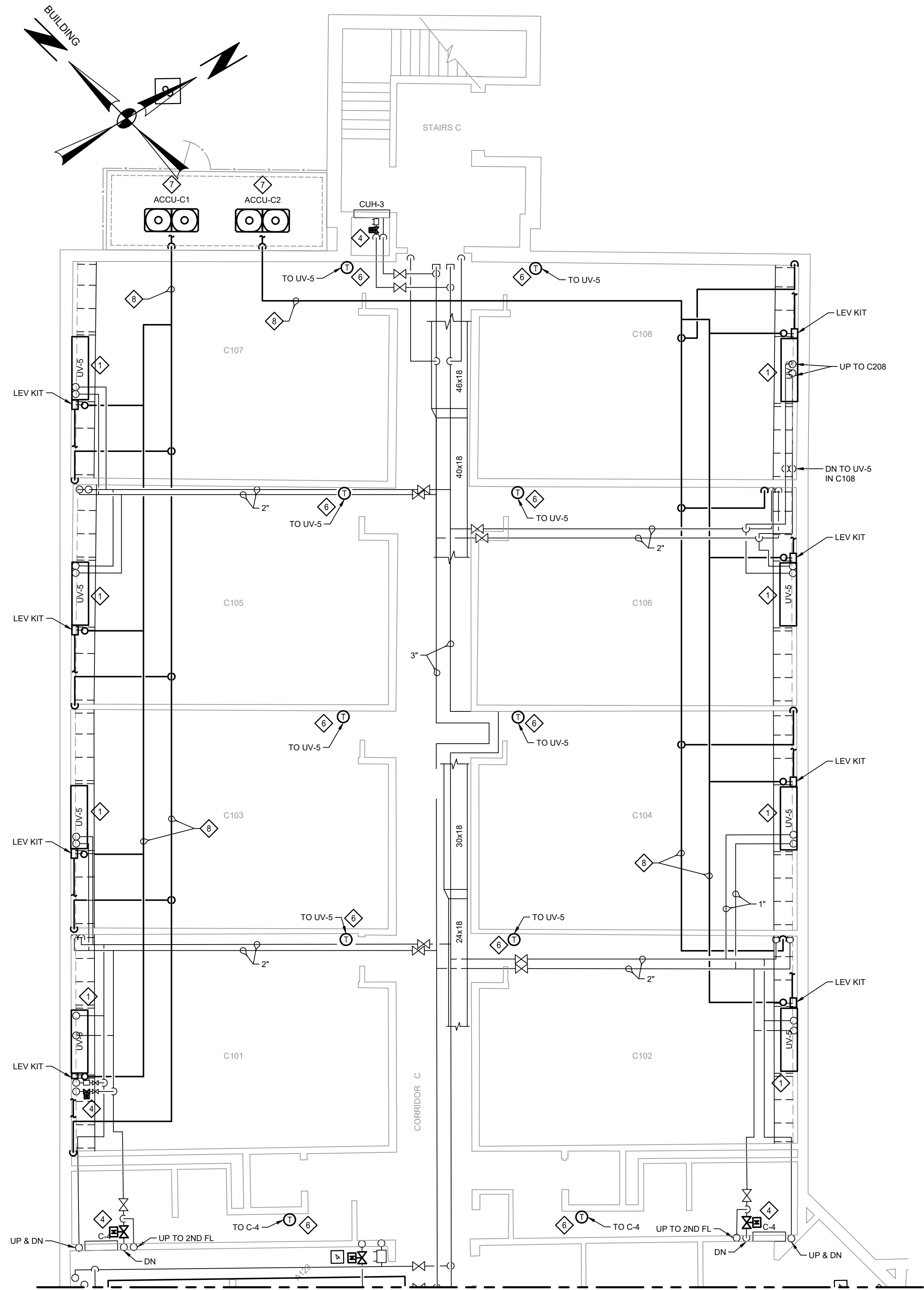


**SCHUYLKILL VALLEY  
 SCHOOL DISTRICT**  
 BERKS COUNTY, PENNSYLVANIA

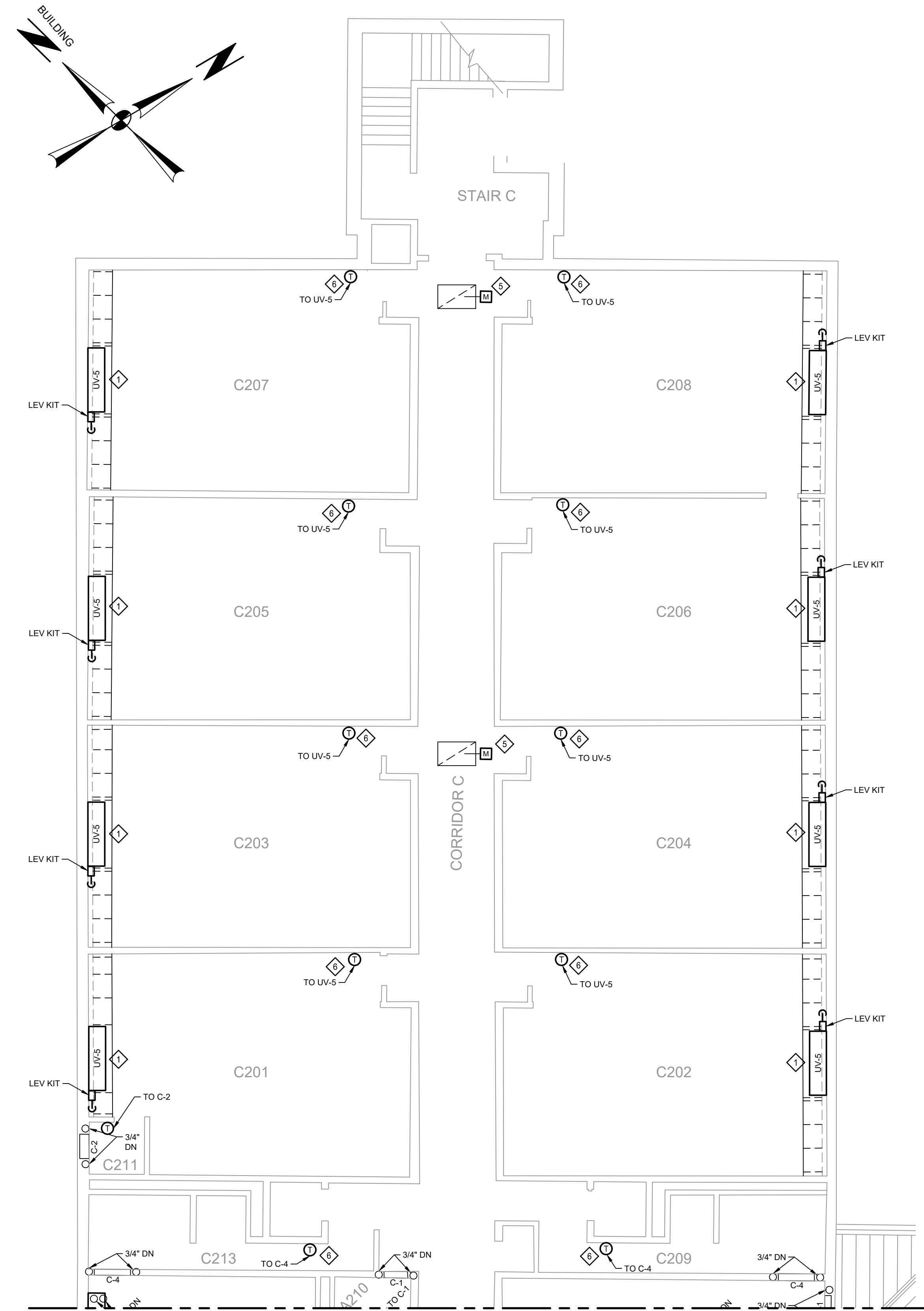
**FIRST AND SECOND FLOORS - SECTION B - PROPOSED**  
 MECHANICAL  
 HVAC UPGRADE  
 COPYRIGHT 2021 SPOTTS, STEVENS & MCCOY

10/29/21 103916.0008  
 DATE M.1-03  
 DIGITAL FILENAME  
**103916.0008**  
 WORK ORDER NUMBER  
**M.1-03**  
 DRAWING NUMBER



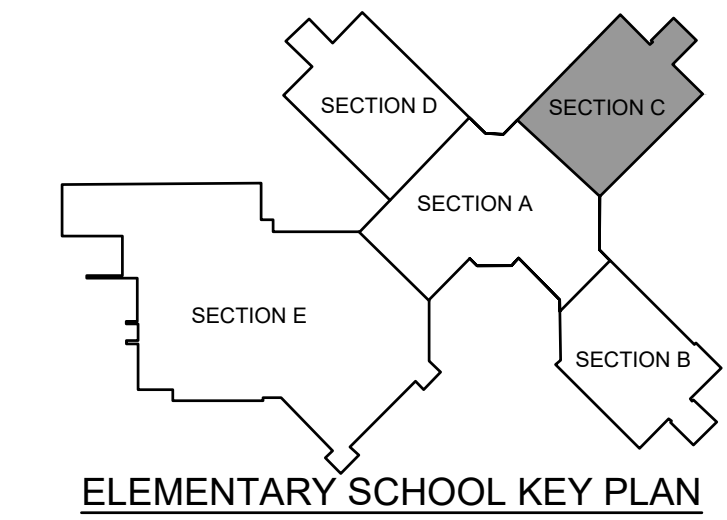


FIRST FLOOR - SECTION C  
PARTIAL PLAN - PROPOSED  
SCALE: 1/8"=1'-0"



SECOND FLOOR - SECTION C  
PARTIAL PLAN - PROPOSED  
SCALE: 1/8"=1'-0"

- INSTALLATION NOTES**
- ◇ PROVIDE NEW FLOOR MOUNTED UNIT VENTILATOR. EXTEND EXISTING HOT WATER PIPING TO UNIT CONNECTION LOCATION. PROVIDE NEW CONDENSATE DRAIN TO EXISTING DRAIN CONNECTION.
  - ◇ PROVIDE NEW HORIZONTAL UNIT VENTILATOR, FAN COIL UNIT, OR AIR HANDLING UNIT. PROVIDE NEW FLEXIBLE CONNECTION AT UNIT AND EXTEND NEW DUCTWORK AND INSULATION TO CONNECT TO EXISTING DUCTWORK. SEAL INSULATION AT CONNECTION TO EXISTING. PROVIDE NEW CONDENSATE DRAIN TO EXISTING CONDENSATE DRAIN PIPING.
  - ◇ PROVIDE NEW DUCT MOUNTED HEATING COIL. EXTEND EXISTING HOT WATER PIPING AND PROVIDE NEW ELECTRONIC CONTROL VALVE. SEE DETAIL ON DWG M.4-01.
  - ◇ PROVIDE NEW ELECTRONIC CONTROL VALVE AND EXTEND HOT WATER PIPING TO UNIT. SEE HOT WATER COIL PIPING DETAIL ON DWG M.4-01.
  - ◇ PROVIDE NEW ELECTRONIC DAMPER ACTUATOR.
  - ◇ PROVIDE NEW THERMOSTAT.
  - ◇ PROVIDE NEW OUTDOOR CONDENSING UNIT MOUNTED ON CONCRETE PAD.
  - ◇ PROVIDE NEW REFRIGERANT PIPING INSTALLED PER MANUFACTURER'S RECOMMENDATIONS. INSTALL LEV KITS WHERE REQUIRED.
  - ◇ PROVIDE NEW BRANCH CONTROLLER AND INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
  - ◇ PROVIDE WALL MOUNTED AC UNIT. PROVIDE REFRIGERANT PIPING UP TO ROOF MOUNTED CONDENSING UNIT. PROVIDE CONDENSATE DRAIN DOWN AND CONNECT TO EXISTING CONDENSATE PIPING OR DISCHARGE TO DRAIN WITH AIR GAP.



NO.	DATE	ISSUED FOR	DESCRIPTION
1	04/20/22	ISSUED FOR CONSTRUCTION	
2			
3			

RELEASED FOR:  
**CONSTRUCTION**

PROJECT MANAGER: MMH  
BASE BY: N/A  
DESIGNED BY: MMH  
DATE: 09/20/21  
N.B.: N/A  
CHAC:

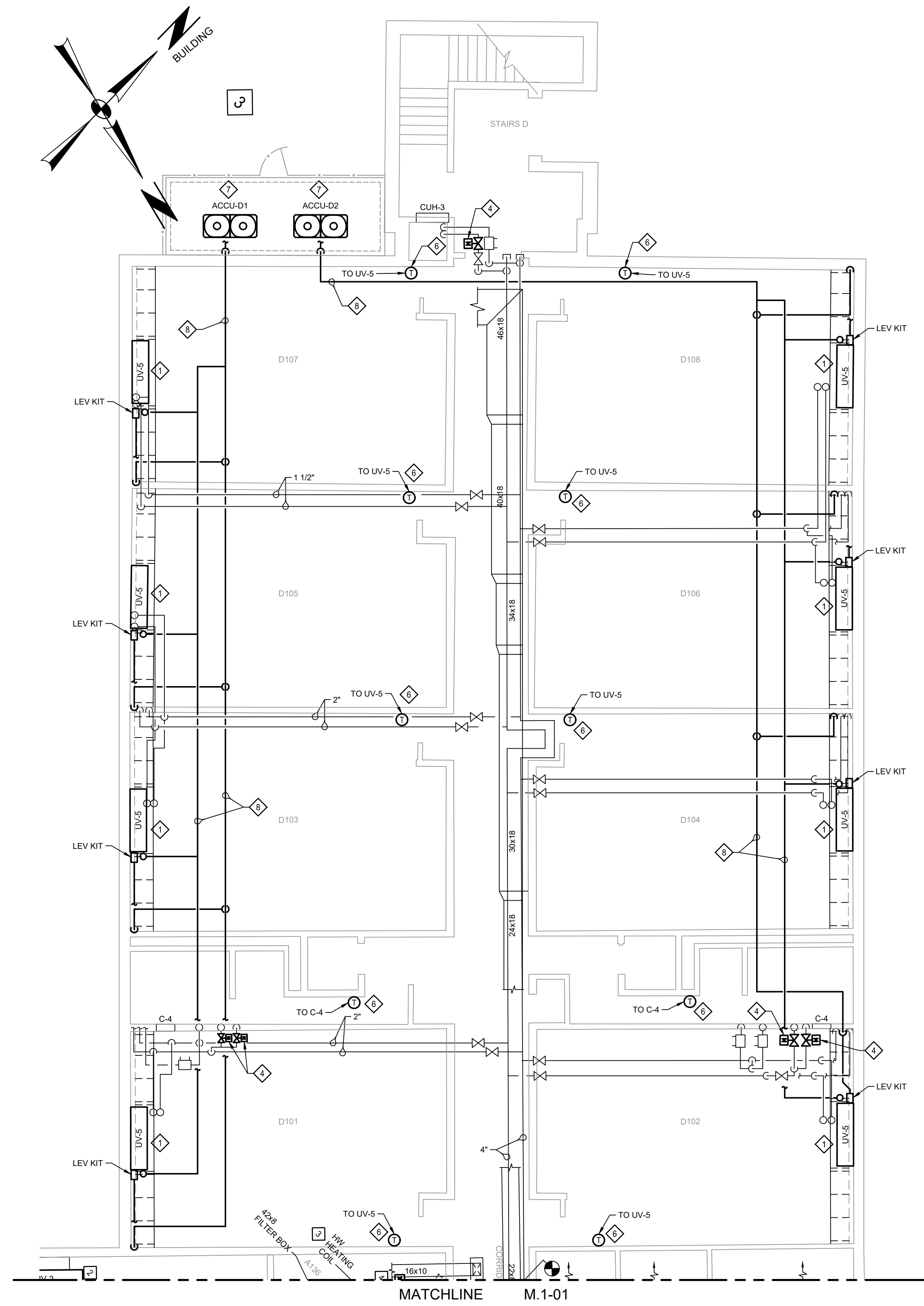


103916.0008  
M.1-04

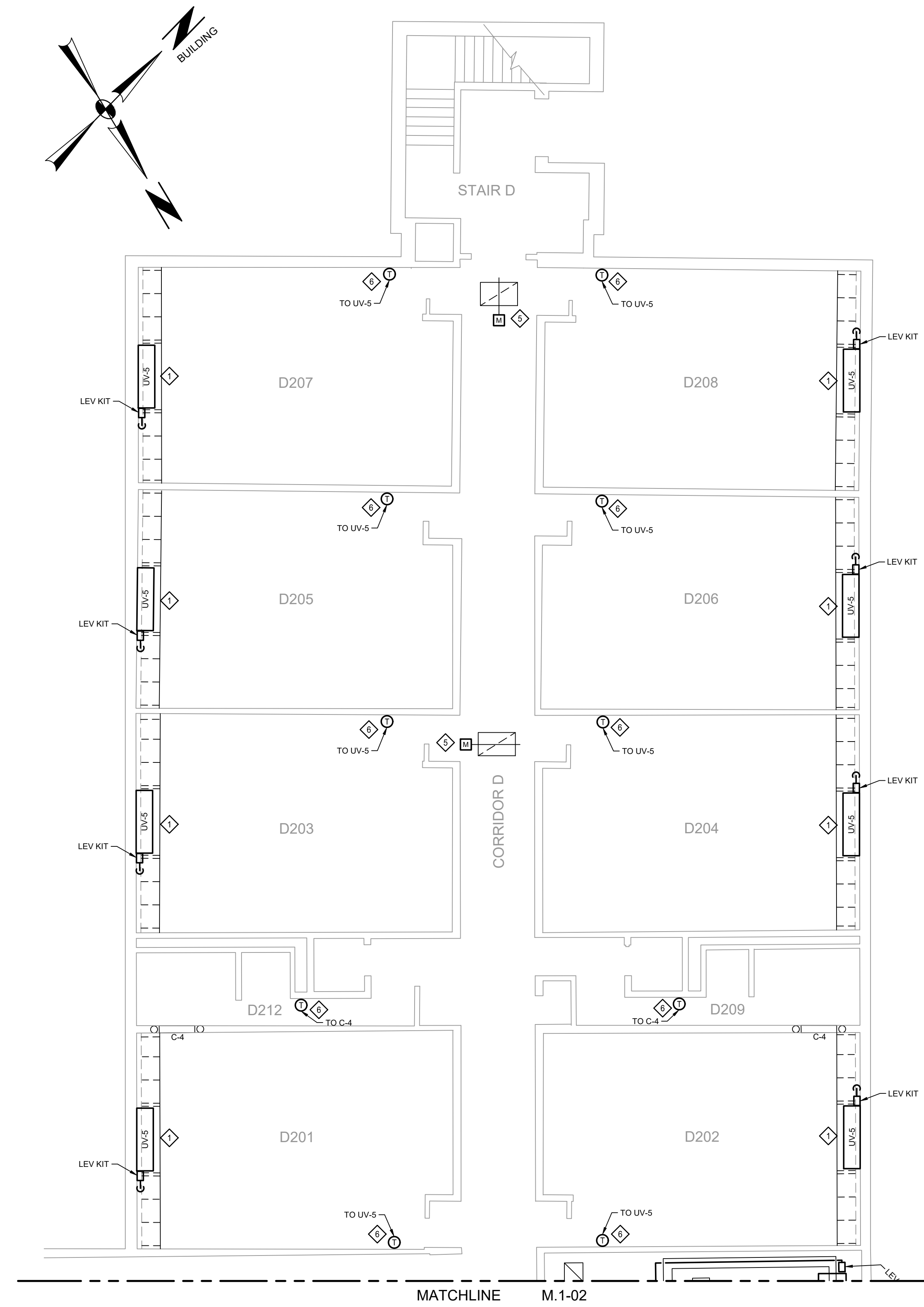
SCHUYLKILL VALLEY  
SCHOOL DISTRICT  
BERKS COUNTY, PENNSYLVANIA  
MECHANICAL  
HVAC UPGRADE  
FIRST AND SECOND FLOORS - SECTION C - PROPOSED  
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DATE	10/29/21	103916.0008
DIGITAL FILENAME	M.1-04	
WORK ORDER NUMBER		
<b>DRAWING NUMBER</b>	<b>M.1-04</b>	





FIRST FLOOR - SECTION D  
PARTIAL PLAN - PROPOSED  
SCALE: 1/8"=1'-0"



SECOND FLOOR - SECTION D  
PARTIAL PLAN - PROPOSED  
SCALE: 1/8"=1'-0"

- INSTALLATION NOTES**
- ◇ PROVIDE NEW FLOOR MOUNTED UNIT VENTILATOR. EXTEND EXISTING HOT WATER PIPING TO UNIT CONNECTION LOCATION. PROVIDE NEW CONDENSATE DRAIN TO EXISTING DRAIN CONNECTION.
  - ◇ PROVIDE NEW HORIZONTAL UNIT VENTILATOR, FAN COIL UNIT, OR AIR HANDLING UNIT. PROVIDE NEW FLEXIBLE CONNECTION AT UNIT AND EXTEND NEW DUCTWORK AND INSULATION TO CONNECT TO EXISTING DUCTWORK. SEAL INSULATION AT CONNECTION TO EXISTING. PROVIDE NEW CONDENSATE DRAIN TO EXISTING CONDENSATE DRAIN PIPING.
  - ◇ PROVIDE NEW DUCT MOUNTED HEATING COIL. EXTEND EXISTING HOT WATER PIPING AND PROVIDE NEW ELECTRONIC CONTROL VALVE. SEE DETAIL ON DWG M.4-01.
  - ◇ PROVIDE NEW ELECTRONIC CONTROL VALVE AND EXTEND HOT WATER PIPING TO UNIT. SEE HOT WATER COIL PIPING DETAIL ON DWG M.4-01.
  - ◇ PROVIDE NEW ELECTRONIC DAMPER ACTUATOR.
  - ◇ PROVIDE NEW THERMOSTAT.
  - ◇ PROVIDE NEW OUTDOOR CONDENSING UNIT MOUNTED ON CONCRETE PAD.
  - ◇ PROVIDE NEW REFRIGERANT PIPING INSTALLED PER MANUFACTURER'S RECOMMENDATIONS. INSTALL LEV KITS WHERE REQUIRED.
  - ◇ PROVIDE NEW BRANCH CONTROLLER AND INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
  - ◇ PROVIDE WALL MOUNTED AC UNIT. PROVIDE REFRIGERANT PIPING UP TO ROOF MOUNTED CONDENSING UNIT. PROVIDE CONDENSATE DRAIN DOWN AND CONNECT TO EXISTING CONDENSATE PIPING OR DISCHARGE TO DRAIN WITH AIR GAP.

NO.	DATE	ISSUED FOR	DESCRIPTION
1	08/12/22	ISSUED FOR CONSTRUCTION	
2	08/12/22	ISSUED FOR CONSTRUCTION	
3			

RELEASED FOR:  
**CONSTRUCTION**

PROJECT MANAGER: MMH  
BASE BY: N/A  
DRAWN BY: TMF

N.B.: N/A  
DESIGNED BY: MMH  
CHKD: CHD

DATE: 09/20/21



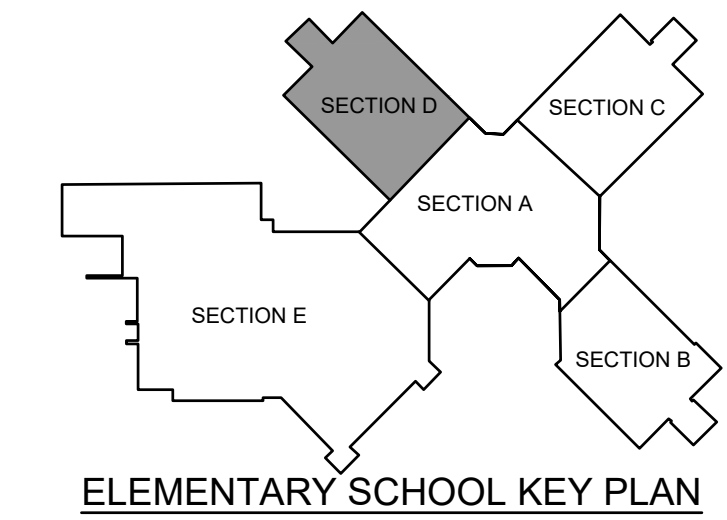
**SCHUYLKILL VALLEY SCHOOL DISTRICT**  
BERKS COUNTY, PENNSYLVANIA  
HVAC UPGRADE  
MECHANICAL  
FIRST AND SECOND FLOORS - SECTION D - PROPOSED  
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10/29/21  
DATE

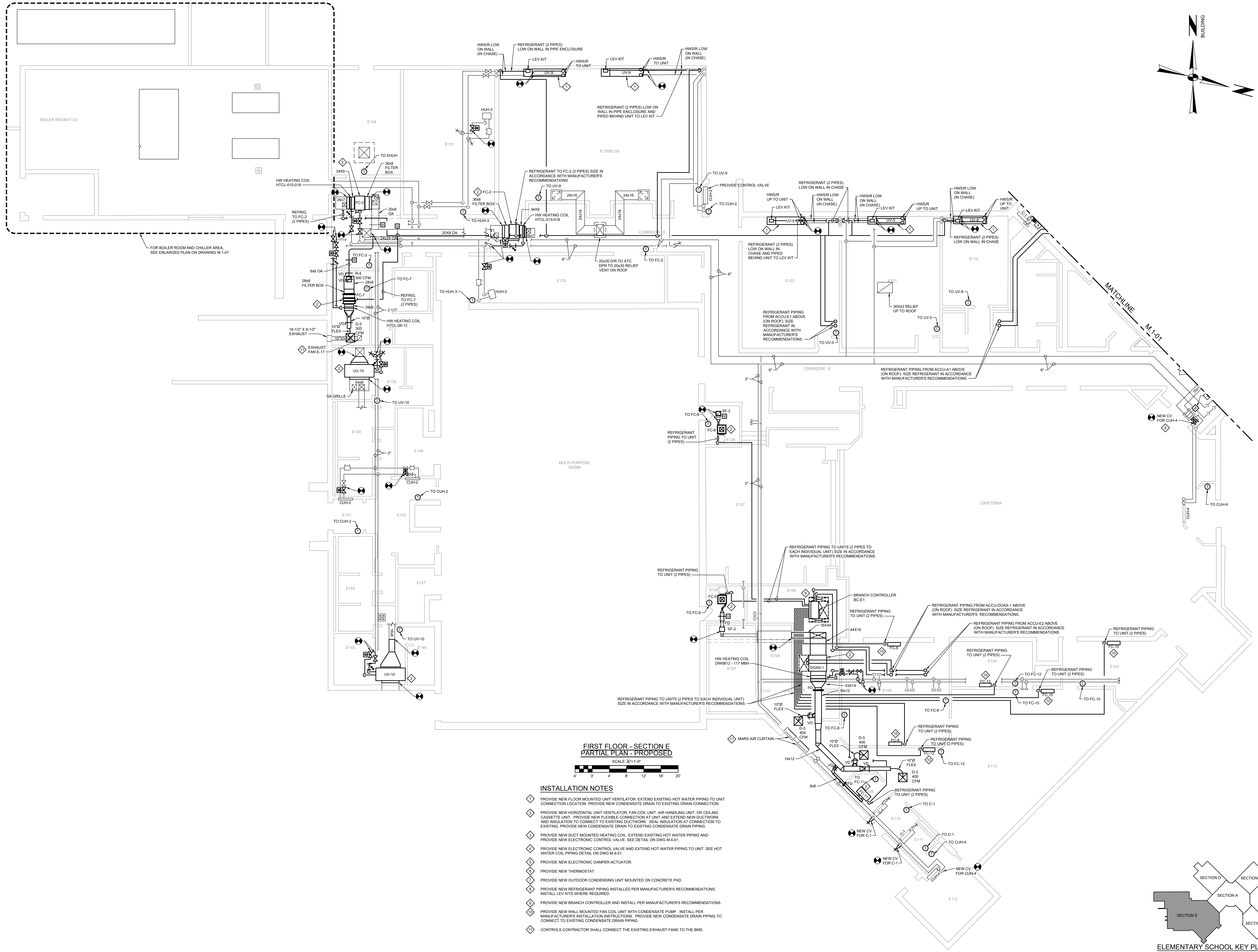
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103916.0008  
M.1-05  
WORK ORDER NUMBER

103916.0008  
M.1-05  
DRAWING NUMBER

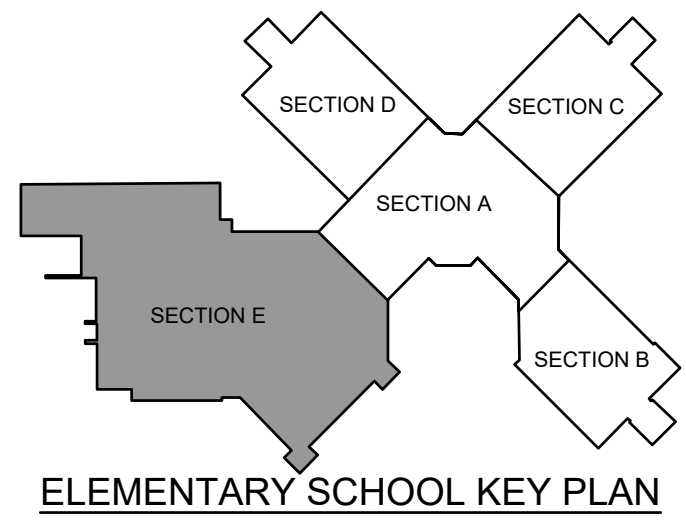






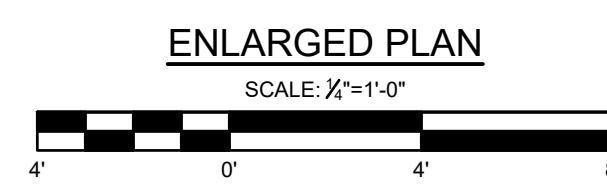
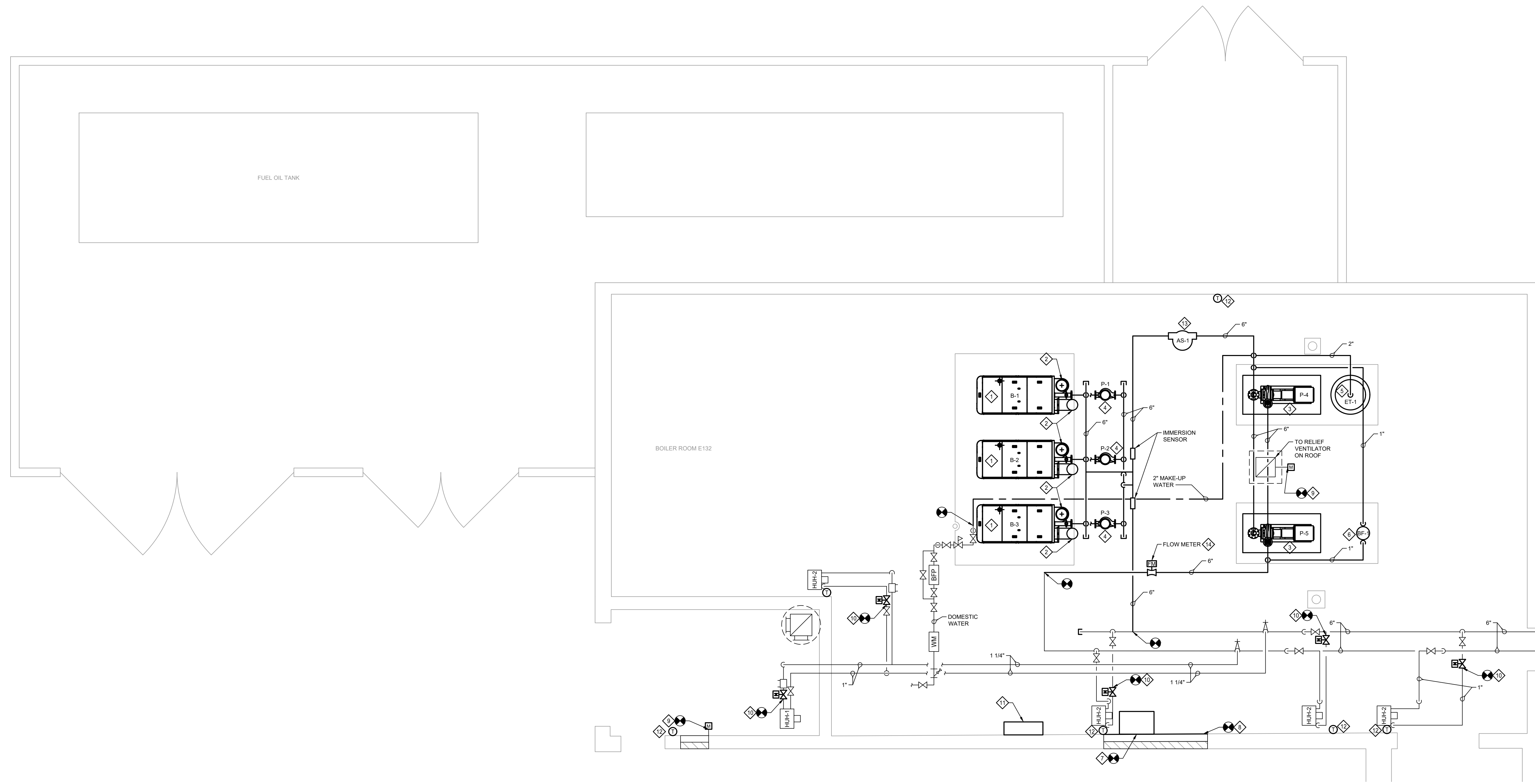
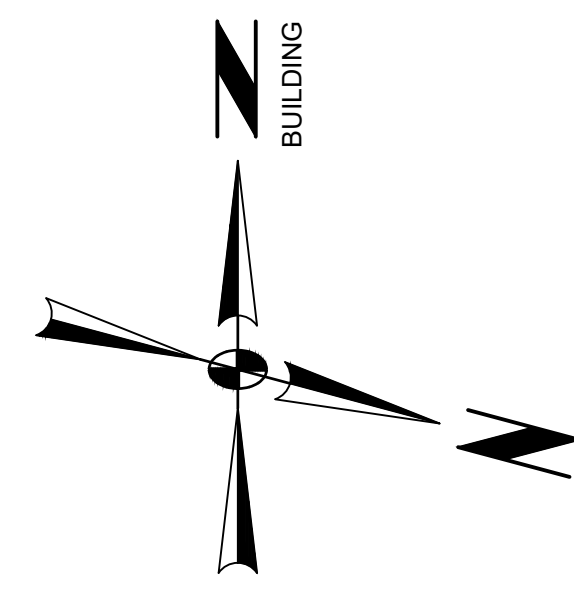
**FIRST FLOOR - SECTION E  
PARTIAL PLAN - PROPOSED**  
SCALE: 1/8"=1'-0"

- INSTALLATION NOTES**
- ◆ PROVIDE NEW FLOOR MOUNTED UNIT VENTILATOR. EXTEND EXISTING HOT WATER PIPING TO UNIT CONNECTION LOCATION. PROVIDE NEW CONDENSATE DRAIN TO EXISTING DRAIN CONNECTION.
  - ◆ PROVIDE NEW HORIZONTAL UNIT VENTILATOR, FAN COIL UNIT, AIR HANDLING UNIT, OR CEILING CASSETTE UNIT. PROVIDE NEW FLEXIBLE CONNECTION AT UNIT AND EXTEND NEW DUCTWORK AND INSULATION TO EXISTING DUCTWORK. SEAL INSULATION AT CONNECTION TO EXISTING. PROVIDE NEW CONDENSATE DRAIN TO EXISTING CONDENSATE DRAIN PIPING.
  - ◆ PROVIDE NEW DUCT MOUNTED HEATING COIL. EXTEND EXISTING HOT WATER PIPING AND PROVIDE NEW ELECTRONIC CONTROL VALVE. SEE DETAIL ON DWG M-4-01.
  - ◆ PROVIDE NEW ELECTRONIC CONTROL VALVE AND EXTEND HOT WATER PIPING TO UNIT. SEE HOT WATER COIL PIPING DETAIL ON DWG M-4-01.
  - ◆ PROVIDE NEW ELECTRONIC DAMPER ACTUATOR.
  - ◆ PROVIDE NEW THERMOSTAT.
  - ◆ PROVIDE NEW OUTDOOR CONDENSING UNIT MOUNTED ON CONCRETE PAD.
  - ◆ PROVIDE NEW REFRIGERANT PIPING INSTALLED PER MANUFACTURER'S RECOMMENDATIONS. INSTALL LEV KITS WHERE REQUIRED.
  - ◆ PROVIDE NEW BRANCH CONTROLLER AND INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
  - ◆ PROVIDE NEW WALL MOUNTED FAN COIL UNIT WITH CONDENSATE PUMP. INSTALL PER MANUFACTURER'S INSTALLATION INSTRUCTIONS. PROVIDE NEW CONDENSATE DRAIN PIPING TO CONNECT TO EXISTING CONDENSATE DRAIN PIPING.
  - ◆ CONTROLS CONTRACTOR SHALL CONNECT THE EXISTING EXHAUST FANS TO THE BMS.



<p>RELEASED FOR: <b>CONSTRUCTION</b></p>	
<p>PROJECT MANAGER: MMH BASE BY: N/A DRAWN BY: TMF</p>	<p>N.B.: N/A DESIGNED BY: MMH</p>
<p>DATE: 09/20/21</p>	<p>CHAC:</p>
<p><b>SSM</b> SPOTT'S, STEVENS &amp; MCCOY Engineers and Consultants sasmgrd.com</p>	
<p>SCHUYLKILL VALLEY SCHOOL DISTRICT BERKS COUNTY, PENNSYLVANIA HVAC UPGRADE MECHANICAL FIRST FLOOR - SECTION E - PROPOSED COPYRIGHT 2021 SPOTT'S, STEVENS &amp; MCCOY</p>	
<p>10/29/21</p>	<p>103916.0008 M.1-06</p>
<p>DATE</p>	<p>DIGITAL FILENAME</p>
<p>103916.0008 M.1-06</p>	
<p>WORK ORDER NUMBER</p>	
<p>DRAWING NUMBER</p>	





**INSTALLATION NOTES**

- ◇ PROVIDE NEW BOILER AND INSTALL PER MANUFACTURER'S INSTALLATION INSTRUCTIONS. PROVIDE BOILER WITH CONDENSATE NEUTRALIZER KIT. SEE FLOW DIAGRAM ON DRAWING M-5-02 AND BOILER DETAIL ON M-4-01 FOR ADDITIONAL INFORMATION.
- ◇ PROVIDE VENT AND AIR INTAKE FROM BOILER UP THROUGH ROOF. INSTALL PER MANUFACTURER'S INSTALLATION INSTRUCTIONS. SEE DETAIL ON DRAWING M-4-01 FOR ADDITIONAL INFORMATION.
- ◇ PROVIDE NEW BASE MOUNTED PUMPS WITH INERTIA BASE, SUCTION DIFFUSER, TRIPLE DUTY VALVE AND VFD. INSTALL PER MANUFACTURER'S RECOMMENDATIONS AND SEE DETAIL ON DRAWING M-4-01 FOR ADDITIONAL INFORMATION.
- ◇ PROVIDE NEW BOILER CIRC PUMP AND INSTALL PER MANUFACTURER'S INSTALLATION INSTRUCTIONS. SEE DETAIL ON DRAWING M-4-01 FOR ADDITIONAL INFORMATION.
- ◇ PROVIDE NEW EXPANSION TANK AND INSTALL PER MANUFACTURER'S INSTALLATION INSTRUCTIONS. SEE DETAIL ON DRAWING M-4-01 FOR ADDITIONAL INFORMATION.
- ◇ PROVIDE CHEMICAL FILTER BYPASS FEEDER AND INSTALL PER MANUFACTURER'S INSTALLATION INSTRUCTIONS. SEE FLOW DIAGRAM ON DRAWING M-5-03 FOR ADDITIONAL INFORMATION.
- ◇ PROVIDE NEW SUPPLY FAN WITH GALVANIZED SHEET METAL CASING AND INSTALL PER MANUFACTURER'S INSTALLATION INSTRUCTIONS. PROVIDE WITH DAMPER.
- ◇ BLANK OFF AND INSULATE PORTION OF UNUSED LOUVER.
- ◇ PROVIDE NEW ELECTRONIC DAMPER ACTUATOR.
- ◇ PROVIDE NEW ELECTRONIC CONTROL VALVE. SEE DETAIL ON DRAWING M-4-01 FOR ADDITIONAL INFORMATION.
- ◇ PROVIDE NEW CONTROL SYSTEM PANEL INSTALLED BY CONTROLS MANUFACTURER.
- ◇ PROVIDE NEW THERMOSTAT.
- ◇ PROVIDE NEW AIR SEPARATOR AND INSTALL PER MANUFACTURER'S INSTALLATION INSTRUCTIONS. SEE DETAIL ON DRAWING M-4-01 FOR ADDITIONAL INFORMATION.
- ◇ PROVIDE FLOW METER EQUAL TO ONICON MODEL F-3500 AND INSTALL PER MANUFACTURER'S INSTRUCTIONS.

NO.	DATE	ISSUED FOR	DESCRIPTION
1	08/19/22	ISSUED FOR CONSTRUCTION	
2			
3			

RELEASED FOR:  
**CONSTRUCTION**

PROJECT MANAGER: MMH  
DESIGNED BY: MMH  
DATE: 09/20/21  
N.B.: N/A  
CHECKED BY: TWF



**SCHUYLKILL VALLEY SCHOOL DISTRICT**  
BERKS COUNTY, PENNSYLVANIA  
HVAC UPGRADE  
MECHANICAL  
ENLARGED PLAN  
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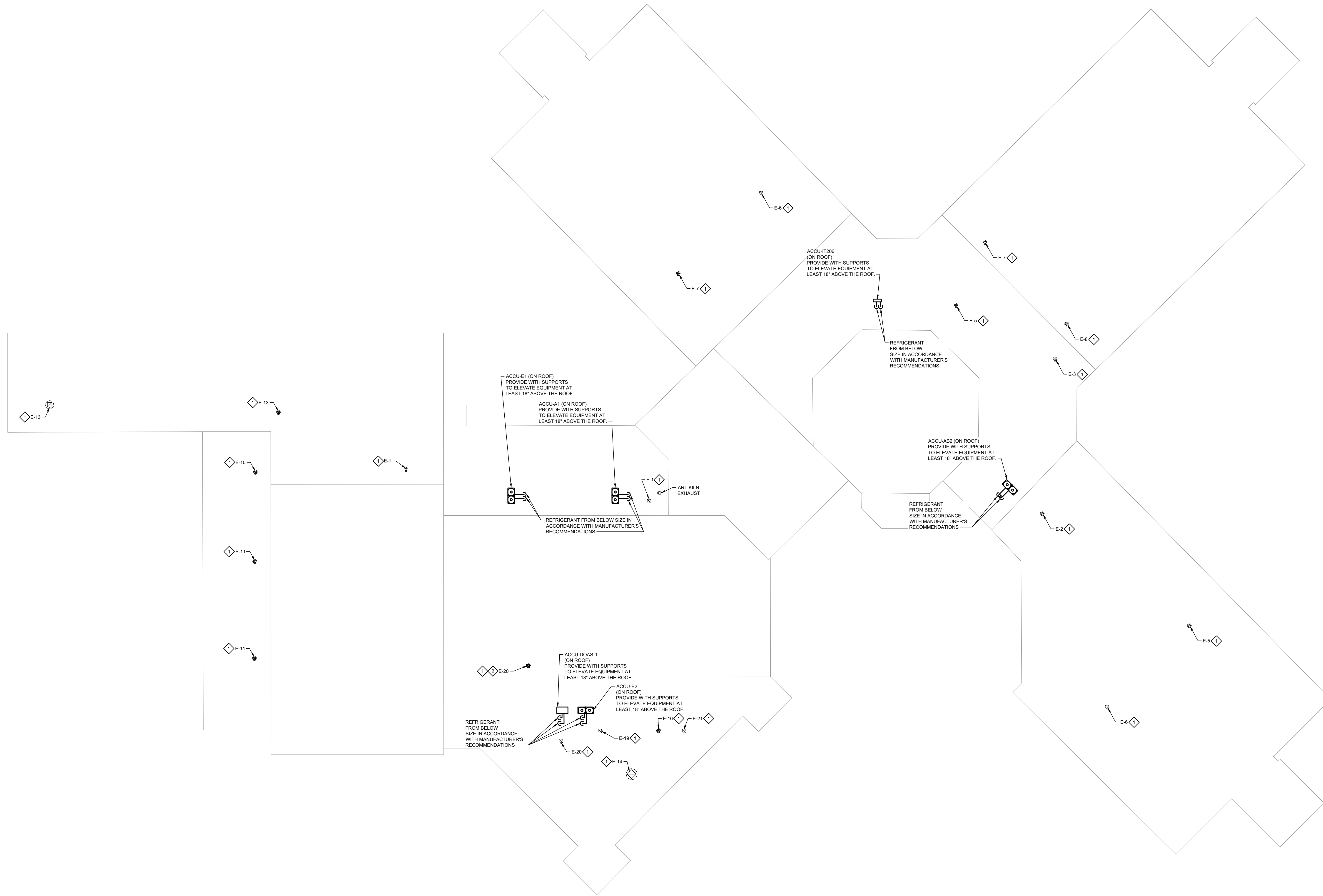
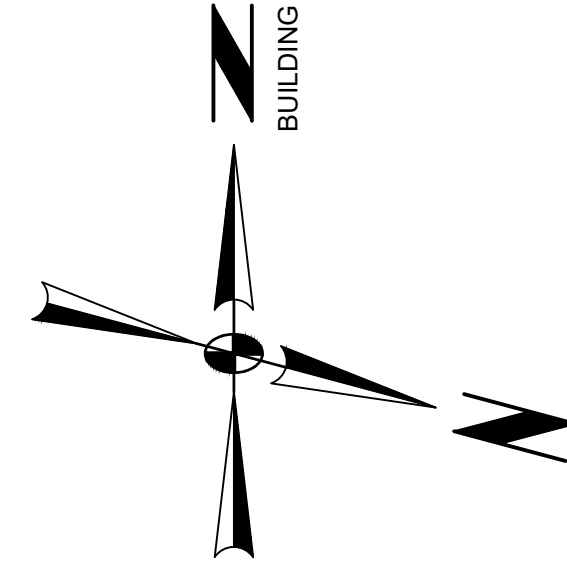
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DATE

103916.0008  
M-1-07  
DIGITAL FILENAME

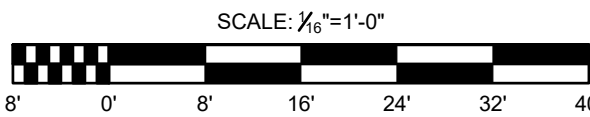
103916.0008  
WORK ORDER NUMBER

**M.1-07**  
DRAWING NUMBER



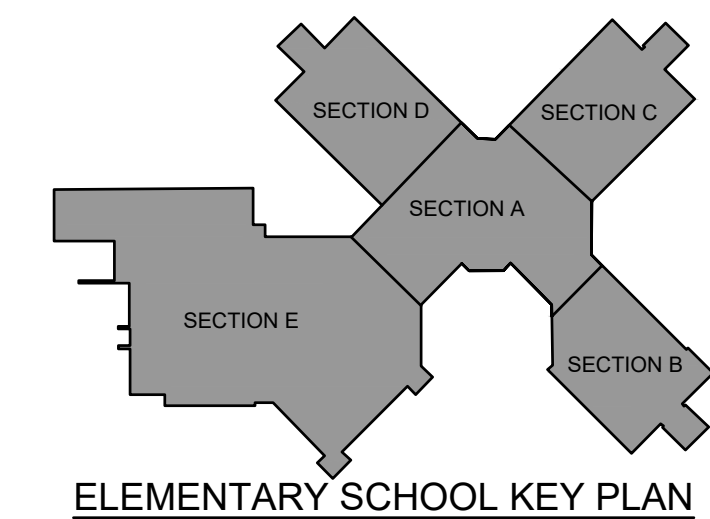


ROOF PLAN - PROPOSED



**INSTALLATION NOTES**

- ◇ CONTROLS CONTRACTOR SHALL CONNECT THE EXHAUST FANS TO THE BMS.
- ◇ PROVIDE NEW EXHAUST FAN WITH ROOF CURB AND BACKDRAFT DAMPER.



NO.	DATE	ISSUED FOR CONSTRUCTION	DESCRIPTION
1	08/20/22	ISSUED FOR CONSTRUCTION	ISSUED FOR CONSTRUCTION
2			
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RELEASED FOR:  
**CONSTRUCTION**

PROJECT MANAGER: MMH  
BASE BY: N/A  
DRAWN BY: TMF

N.B.: N/A  
DESIGNED BY: MMH  
DATE: 09/20/21  
CHKD:



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SPOTTS, STEVENS & MCCOY  
Engineers and Consultants  
www.ssmgroup.com

SCHUYLKILL VALLEY  
SCHOOL DISTRICT  
BERKS COUNTY, PENNSYLVANIA  
HVAC UPGRADE  
MECHANICAL  
ROOF PLAN - PROPOSED  
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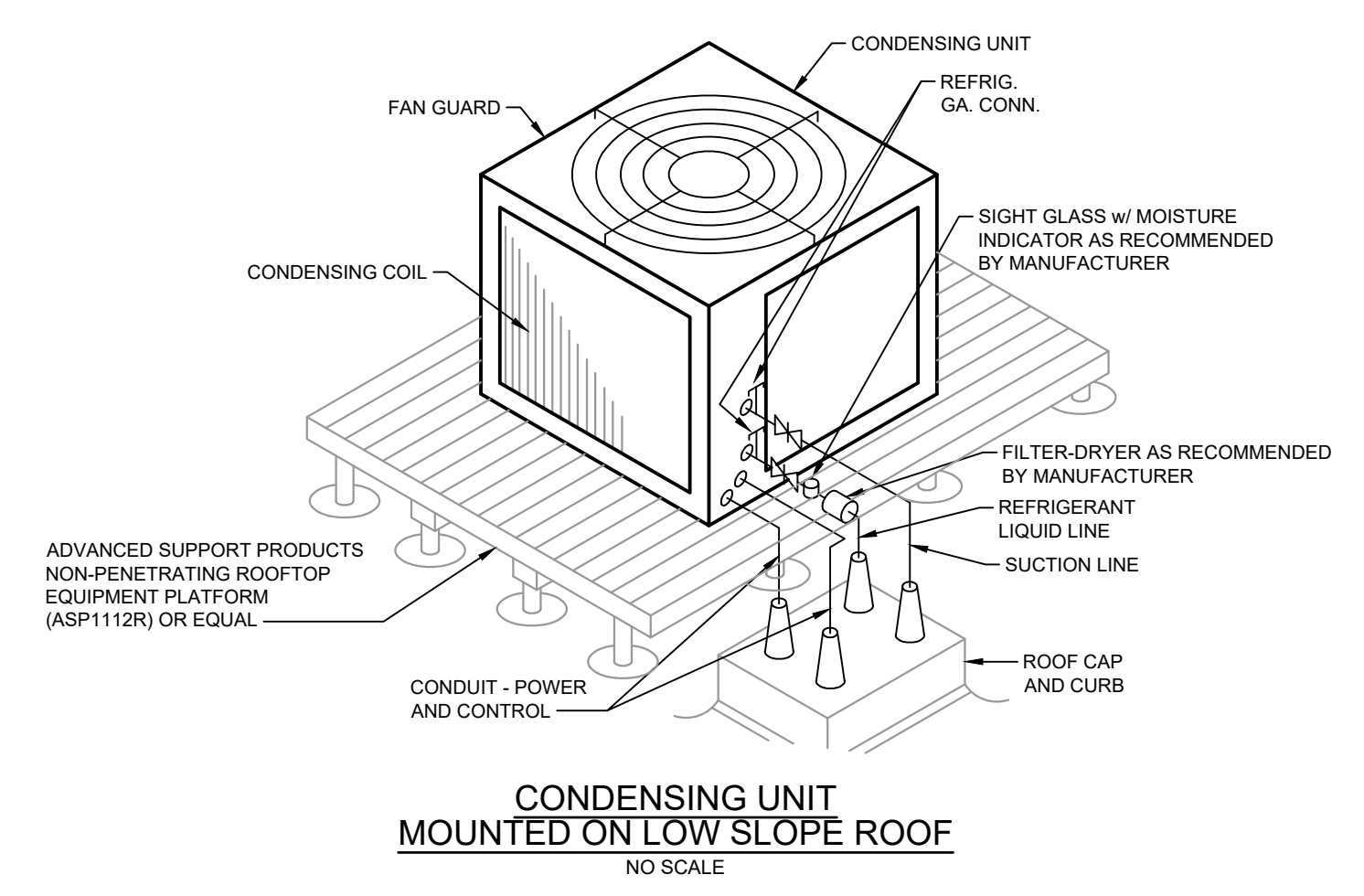
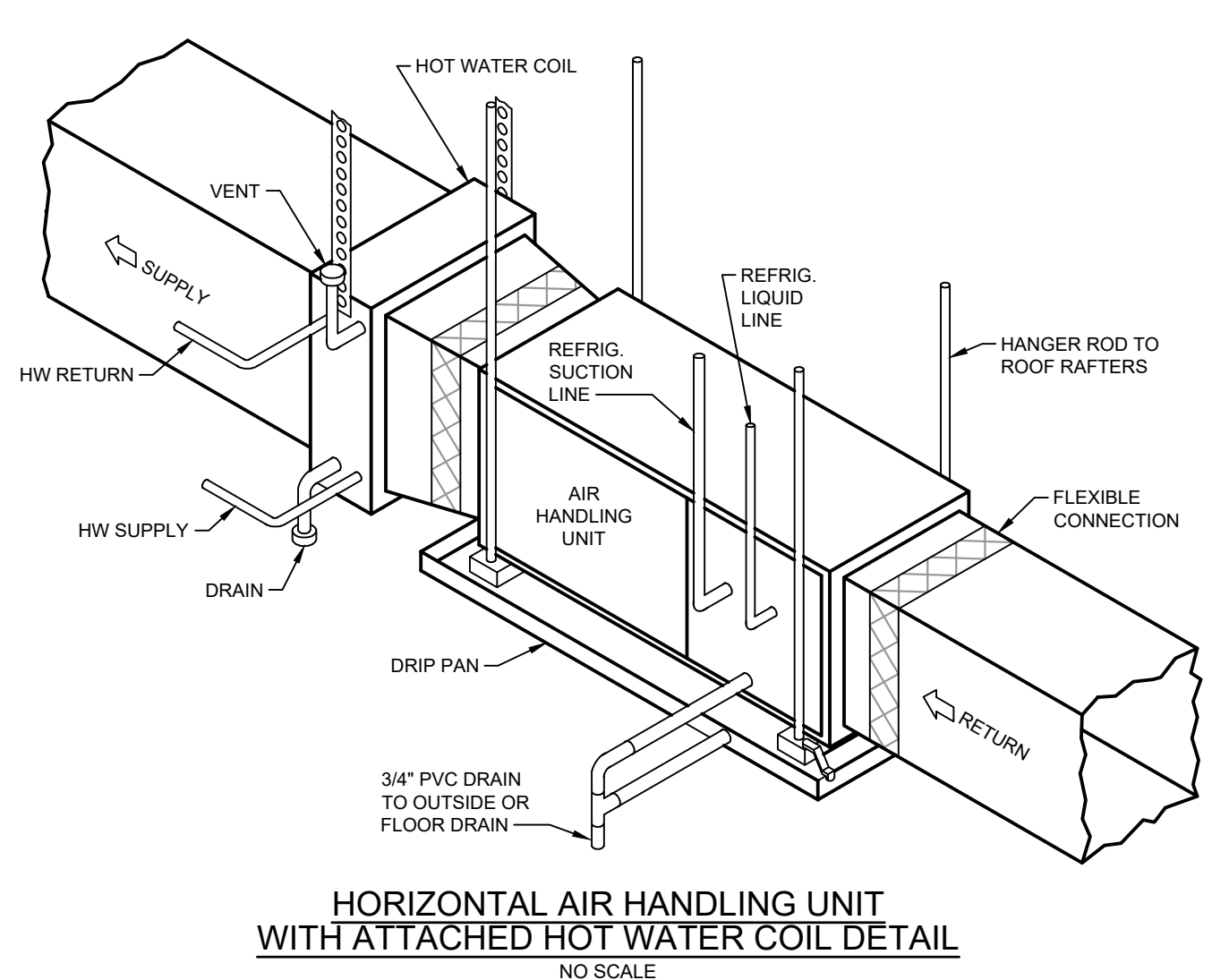
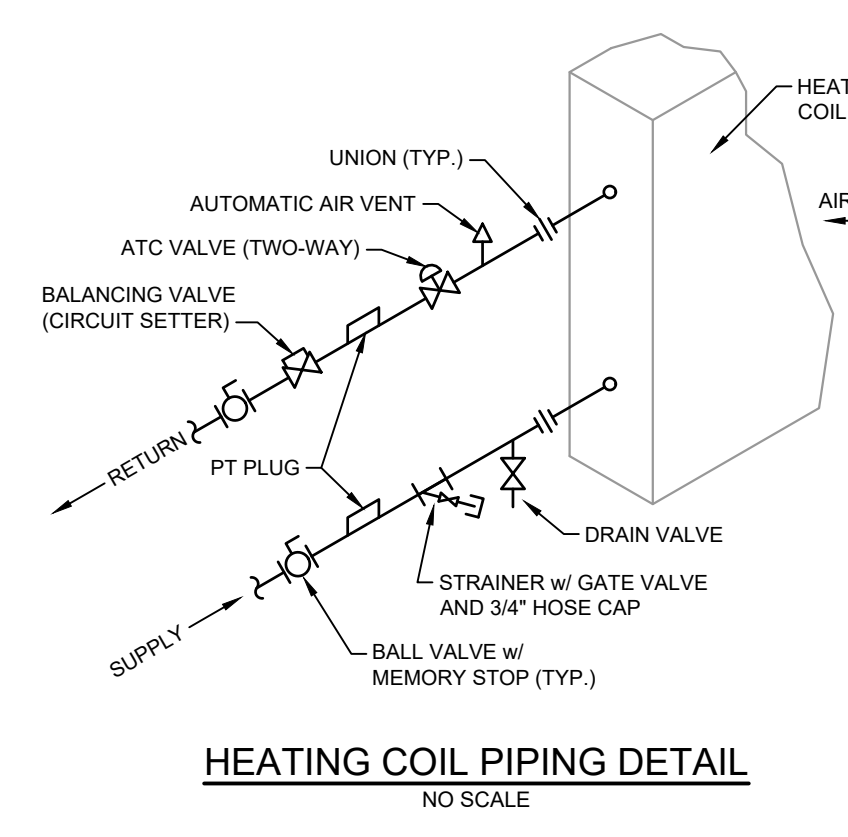
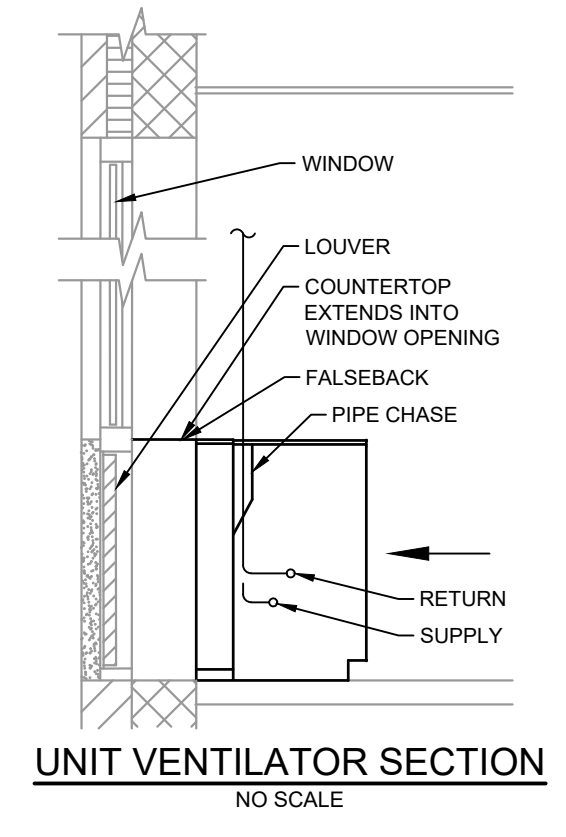
10/29/21  
DATE

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M.1-08  
DIGITAL FILENAME

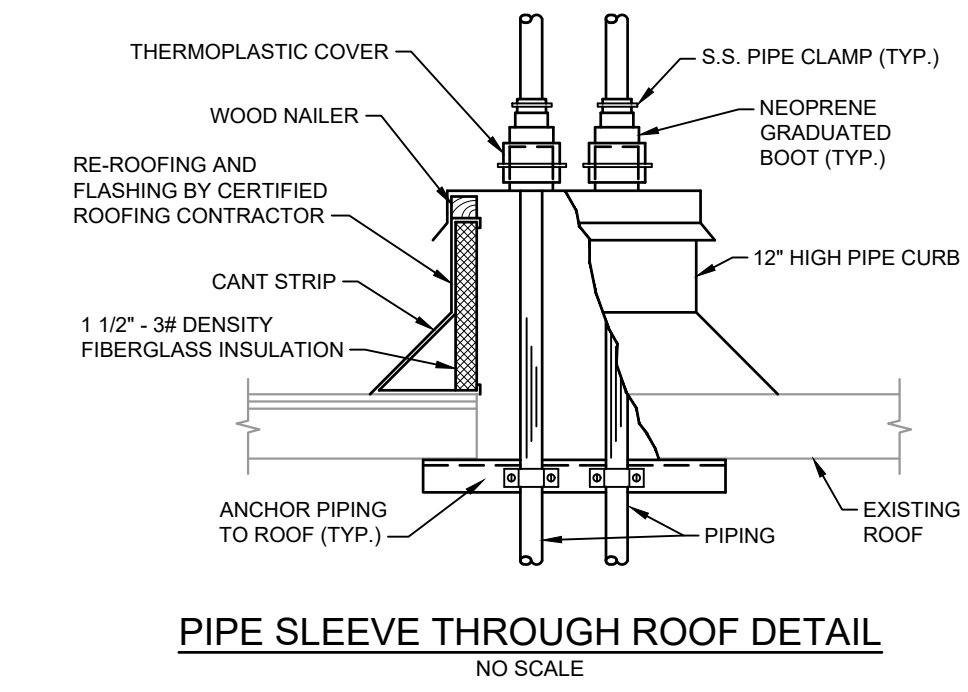
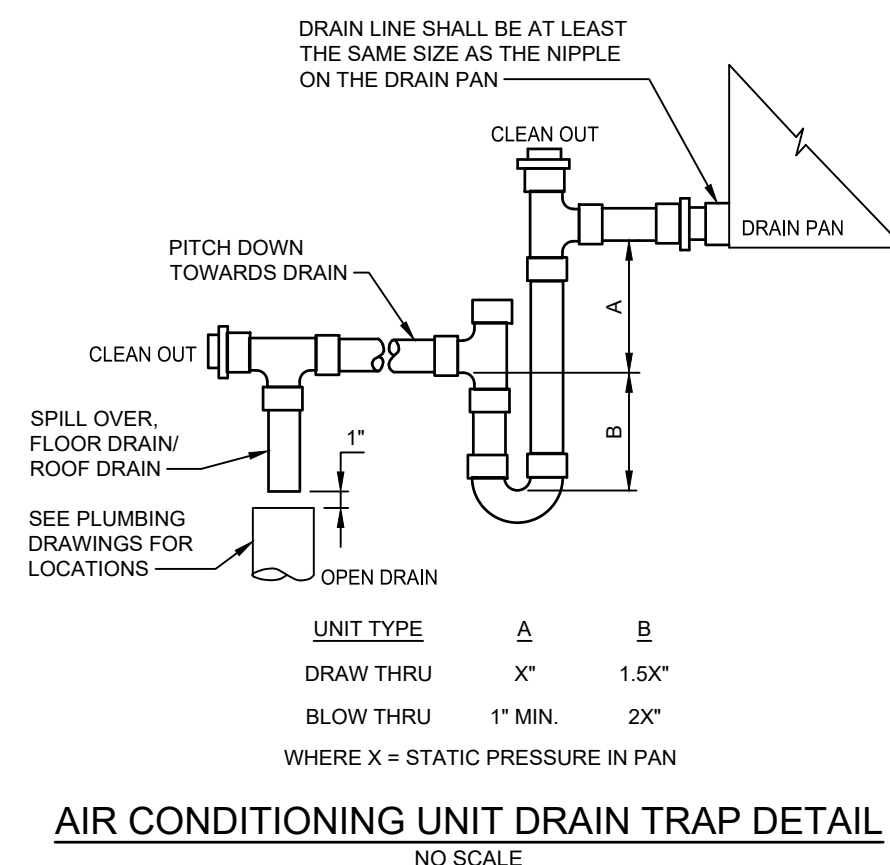
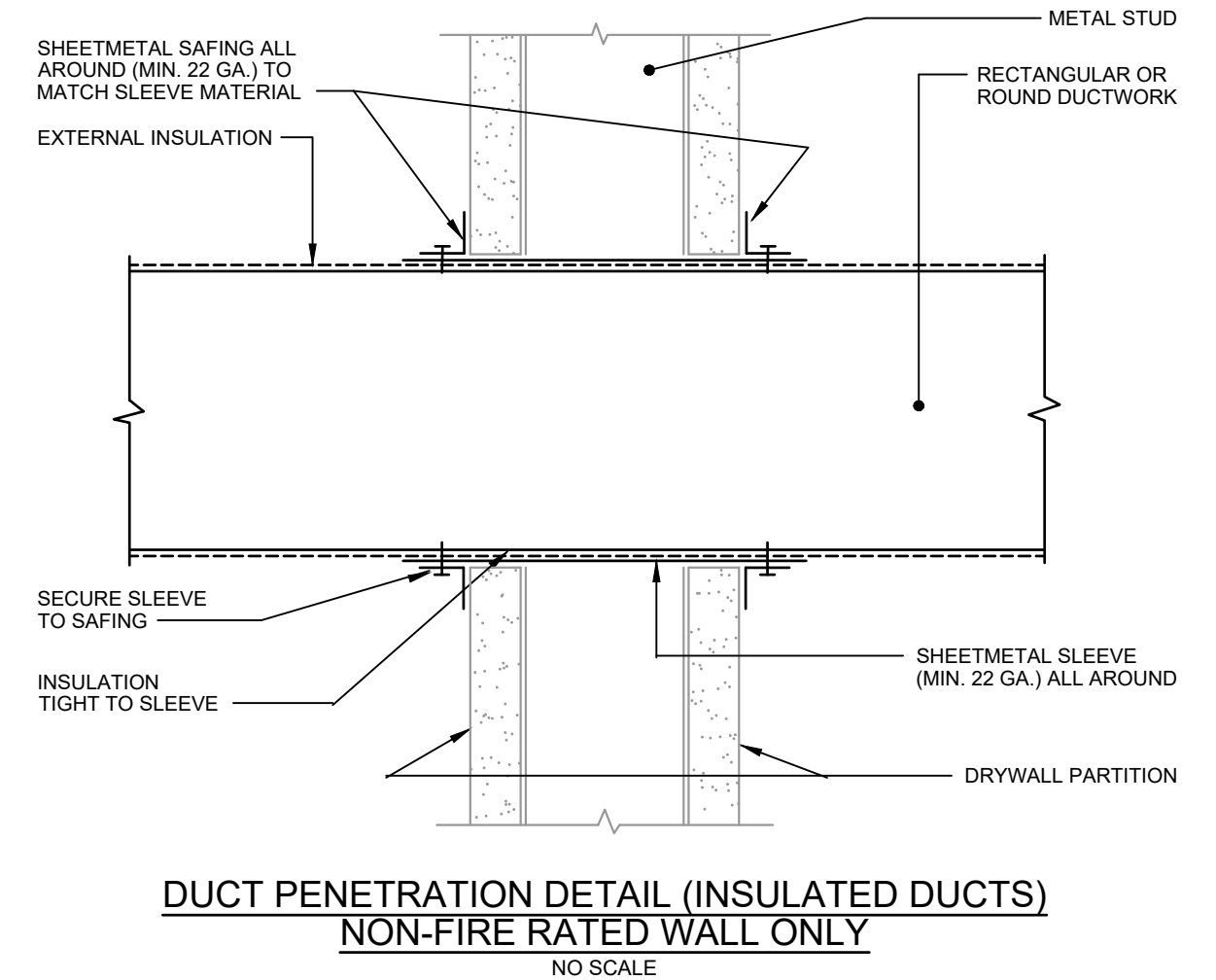
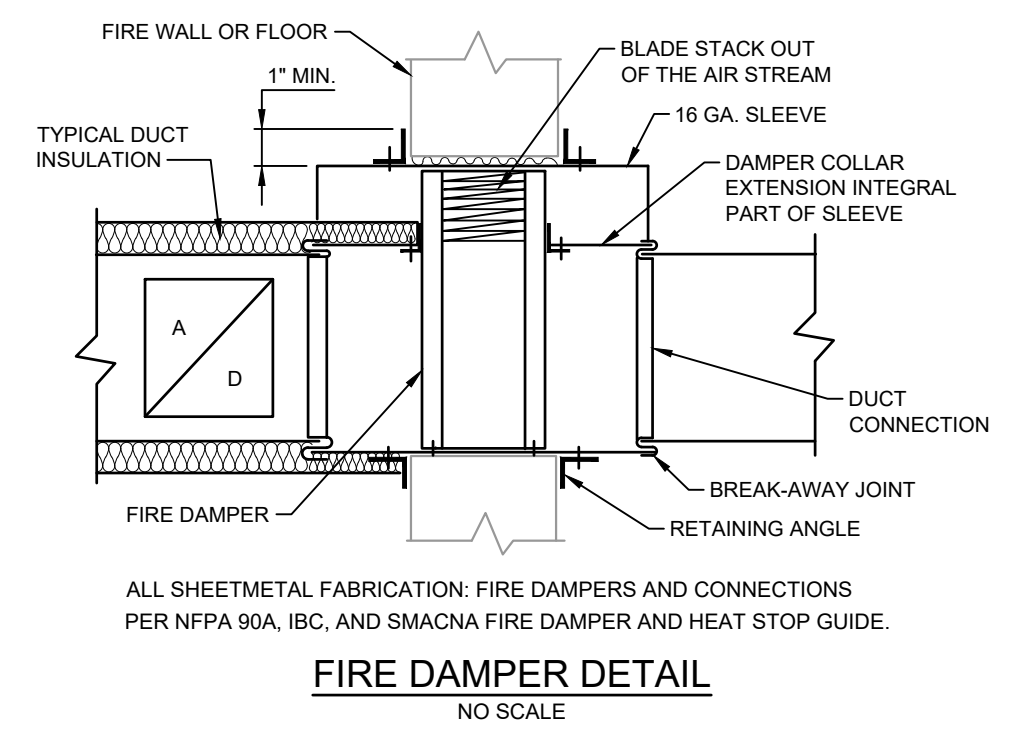
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WORK ORDER NUMBER

**M.1-08**  
DRAWING NUMBER

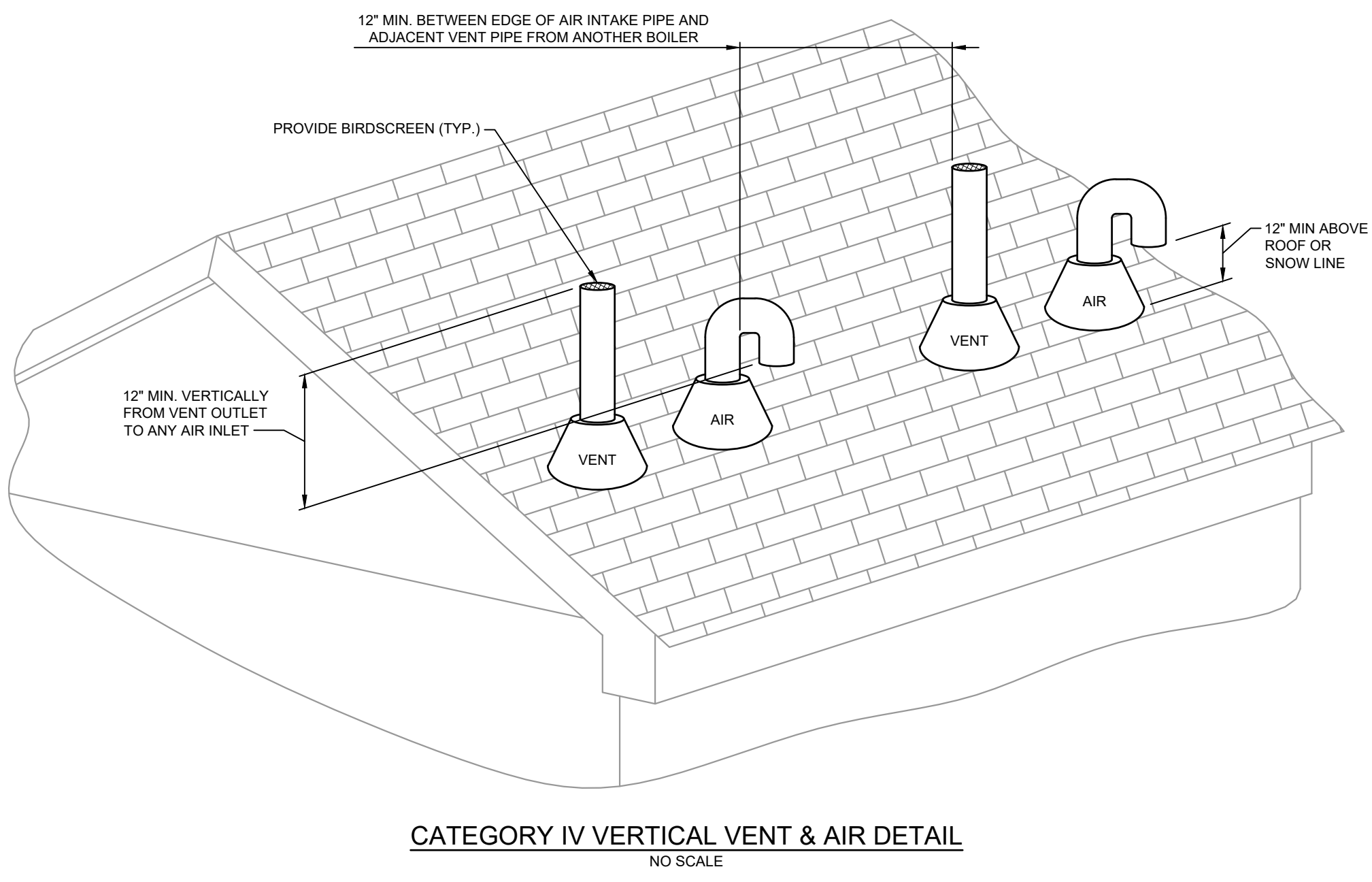
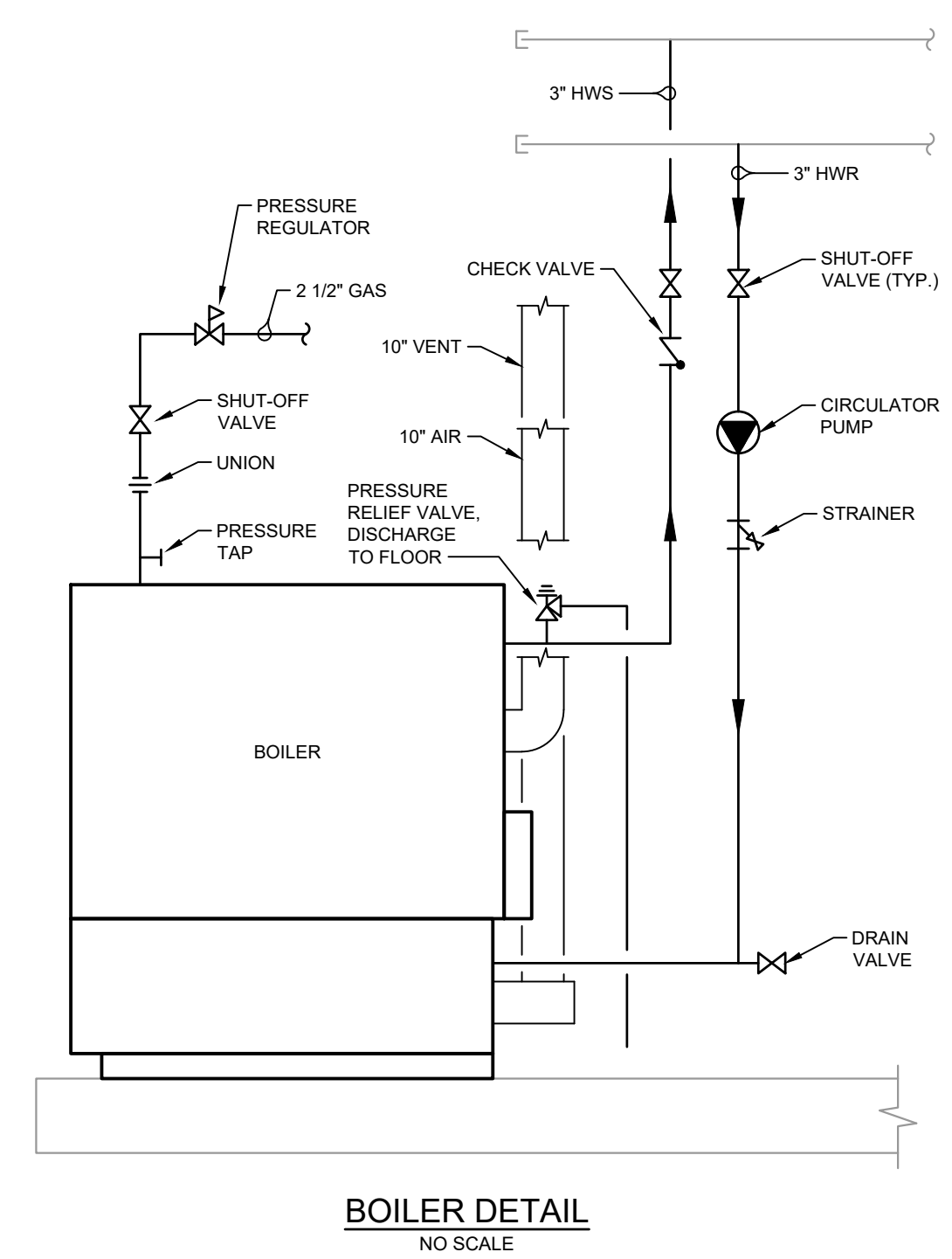
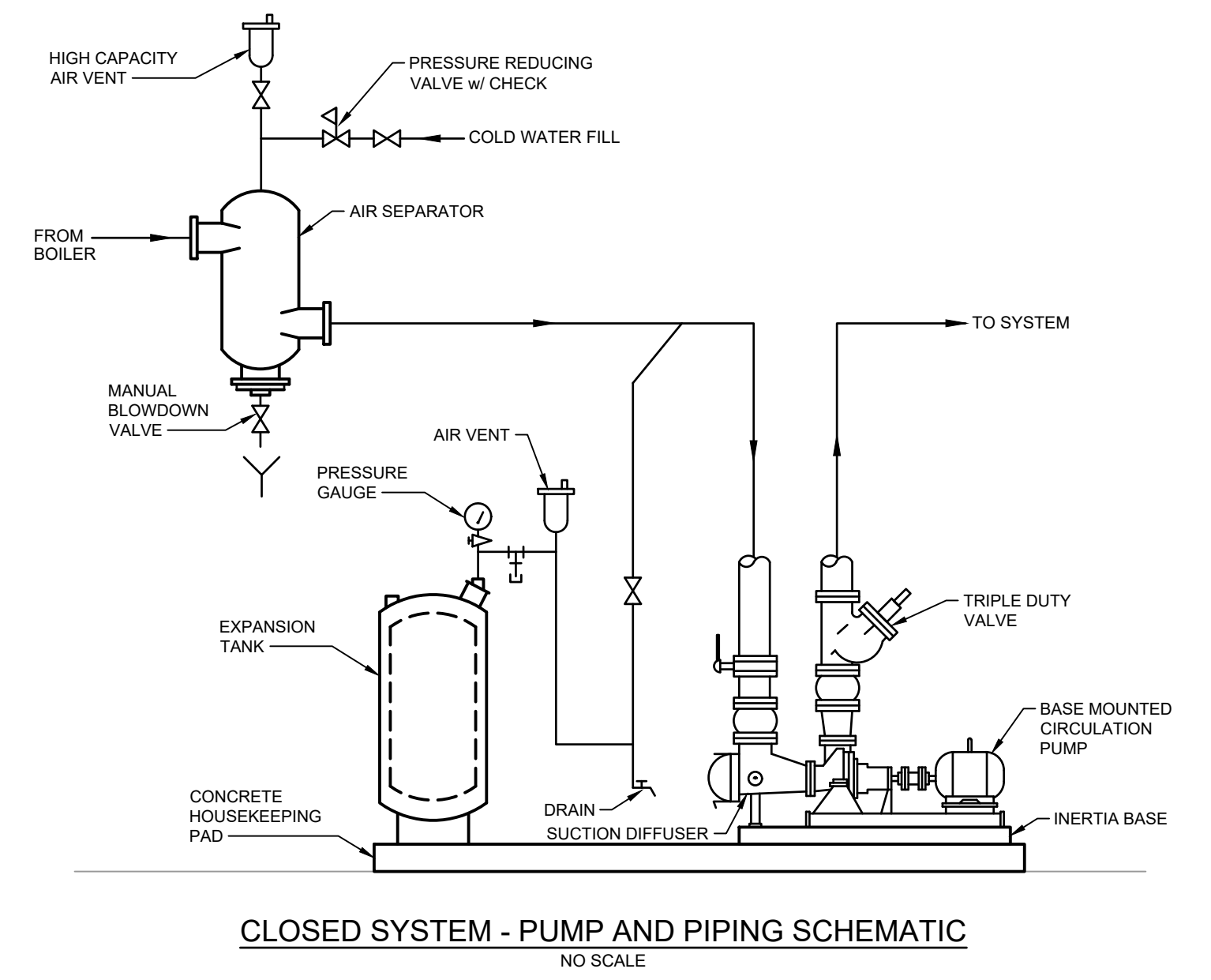
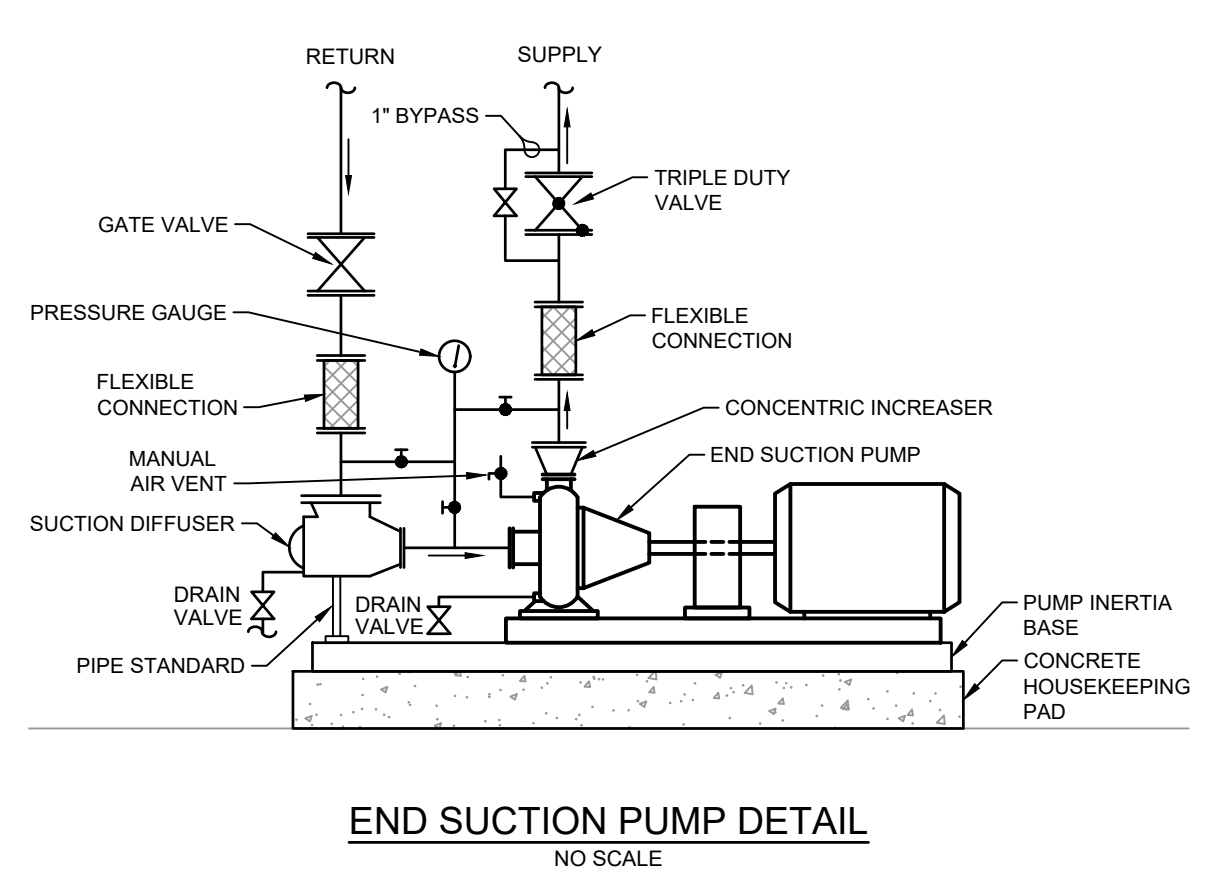
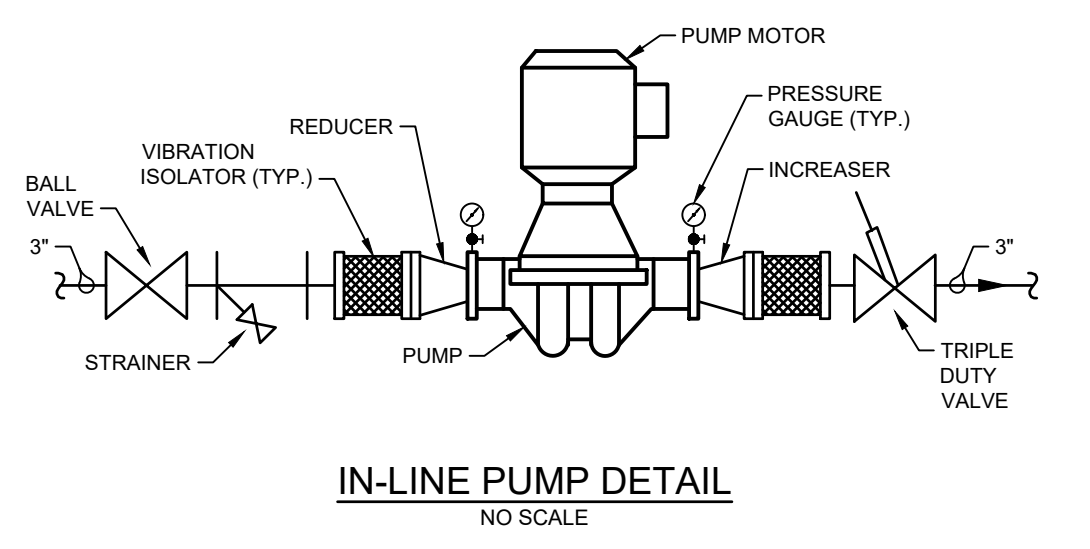




NOTE: COORDINATE PENETRATIONS OF ROOF AND MOUNTING OF EQUIPMENT ON ROOF WITH ROOF MANUFACTURER STANDARD DETAILS AND WARRANTY REQUIREMENTS.



NOTE: COORDINATE PENETRATIONS OF ROOF WITH ROOF MANUFACTURER STANDARD DETAILS AND WARRANTY REQUIREMENTS.



NO.	DATE	ISSUED FOR CONSTRUCTION	DESCRIPTION
1	04/20/22		
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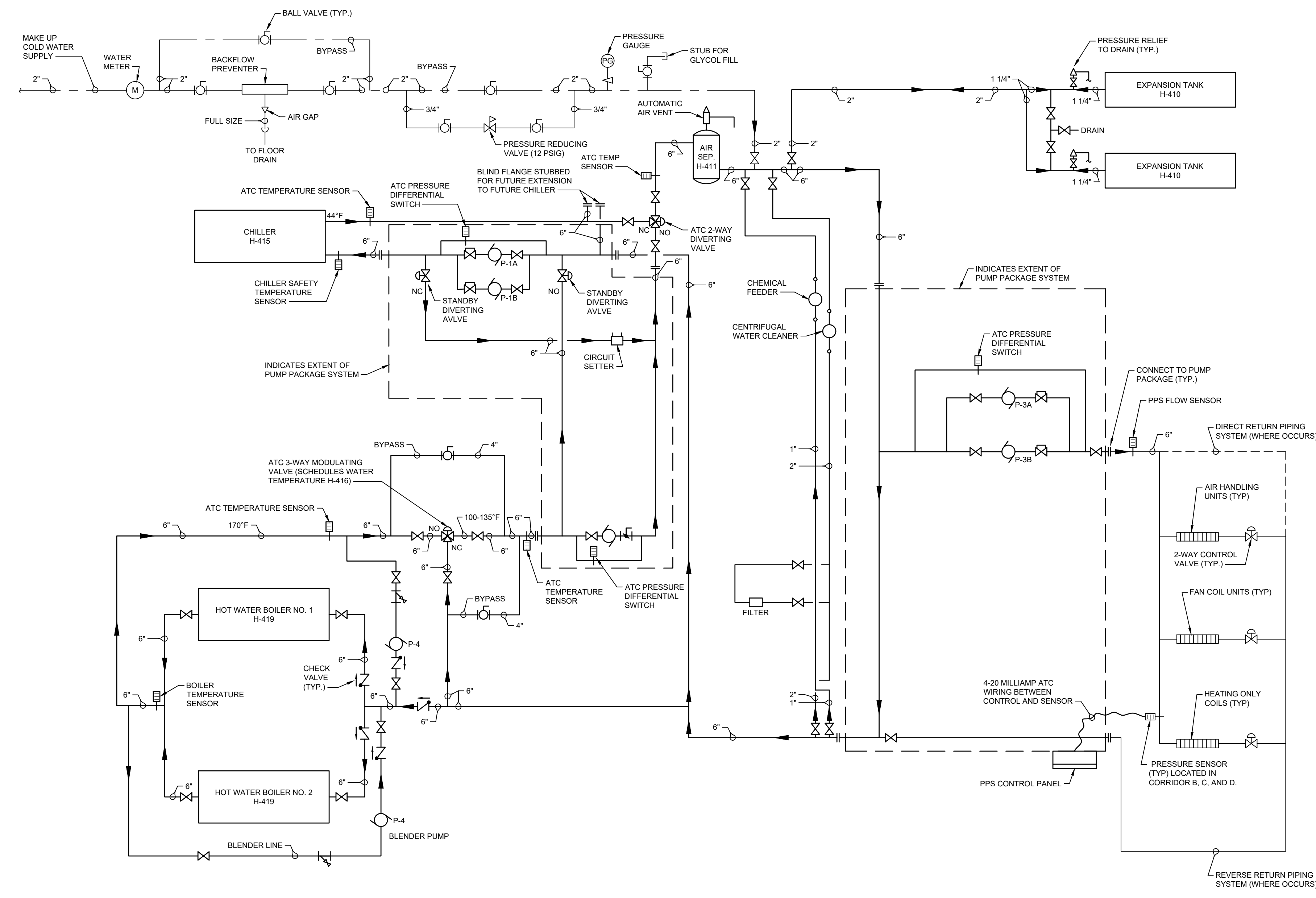
RELEASED FOR:  
CONSTRUCTION

PROJECT MANAGER: MMH  
DESIGNED BY: MMH  
DATE: 09/20/21  
N.B. N/A  
CHECKED: T.M.F.



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BERKS COUNTY, PENNSYLVANIA  
HVAC UPGRADE  
MECHANICAL DETAILS  
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10/29/21  
DATE  
103916.0008  
WORK ORDER NUMBER  
M.4-01  
DRAWING NUMBER



HVAC SYSTEM DIAGRAM - EXISTING  
NO SCALE

NO.	DATE	DESCRIPTION
1	08/15/22	ISSUED FOR CONSTRUCTION
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RELEASED FOR:  
**CONSTRUCTION**

PROJECT MANAGER: MMH  
DESIGNED BY: MMH  
DATE: 09/21  
N.B.: N/A  
CHD:



SCHUYLKILL VALLEY  
SCHOOL DISTRICT  
BERKS COUNTY, PENNSYLVANIA  
MECHANICAL  
SYSTEM SCHEMATIC DIAGRAM - EXISTING  
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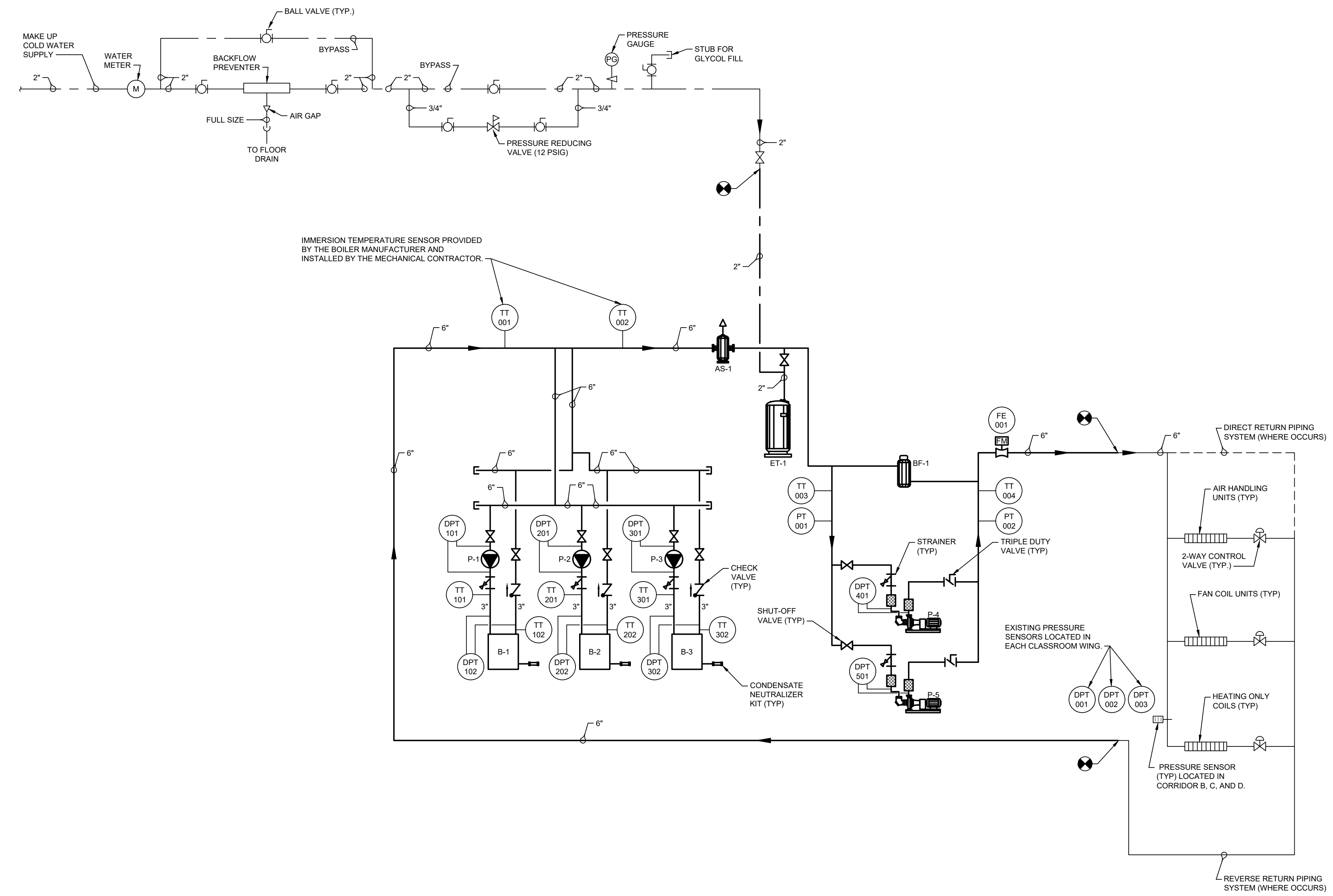
10/29/21  
DATE

103916.0008  
DIGITAL FILENAME

103916.0008  
WORK ORDER NUMBER

M.5-01  
DRAWING NUMBER





HVAC SYSTEM DIAGRAM - PROPOSED  
NO SCALE

NO.	DATE	ISSUED FOR CONSTRUCTION	DESCRIPTION
1	04/20/22	ISSUED FOR CONSTRUCTION	ISSUED FOR CONSTRUCTION
2			
3			

PROJECT MANAGER:	MMH	N.B. N/A	DATE:	09/20/21
BASE BY:	N/A		DESIGNED BY:	MMH
DRAWN BY:	TMF		CHKD:	



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**SCHUYLKILL VALLEY SCHOOL DISTRICT**  
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 HVAC UPGRADE  
 MECHANICAL  
 SYSTEM SCHEMATIC DIAGRAM - PROPOSED  
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10/29/21 103916.0008  
 DATE M.S.2P

103916.0008

WORK ORDER NUMBER

M.5-02

DRAWING NUMBER





MITSUBISHI ELECTRIC TRANE HVAC US: CITY MULTI VRF INDOOR UNIT SCHEDULE

Table with 17 columns for ACCU-B1 and ACCU-B2 units, including rows for System Tag, Tag Reference, Room Name, M-NET Address, Model, Type, Nominal Cooling Capacity, Nominal Heating Capacity, Design Conditions, Performance Data, Fan/Water Flow Data, Electrical Data, and Notes/Options.

Table with 17 columns for ACCU-C1 and ACCU-C2 units, including rows for System Tag, Tag Reference, Room Name, M-NET Address, Model, Type, Nominal Cooling Capacity, Nominal Heating Capacity, Design Conditions, Performance Data, Fan/Water Flow Data, Electrical Data, and Notes/Options.

Table with 17 columns for ACCU-D1 and ACCU-D2 units, including rows for System Tag, Tag Reference, Room Name, M-NET Address, Model, Type, Nominal Cooling Capacity, Nominal Heating Capacity, Design Conditions, Performance Data, Fan/Water Flow Data, Electrical Data, and Notes/Options.

- Notes & Options:
1 Nominal cooling capacities are based on indoor coil EAT of 80/67°F (DB/WB), outdoor of 95°F (DB)
2 Nominal heating capacities are based on indoor coil EAT of 70°F (DB), outdoor of 43°F (WB)
3 See outdoor unit schedule for outdoor ambient conditions, connected capacity, and other factors associated with corrected capacities
4 See schematic piping/control diagram for indication of required indoor unit remote controllers, system controllers, and integration devices
5 Full demand corrected capacity includes de-rate associated with indoor or outdoor connected capacity indicated on outdoor unit schedule for associated system. Partial corrected capacity assumes sufficient diversity exists such that the connected capacity de-rate does not apply. It is the designer's responsibility to ensure "Diamond System Builder" is set in the appropriate output capacity setting (full demand/partial demand) prior to generating this schedule.
6 It is recommended to always base heating corrected capacity on full demand.
7 Provide Filter Box with MERV 13 Filters
8 Provide Blue Diamond MicroBlue Condensate Pump with Reservoir & Sensor
9 Provide Blue Diamond MaxiBlue Condensate Pump with Reservoir & Sensor - 208/230V

RELEASED FOR: CONSTRUCTION
PROJECT MANAGER: MMH
BASE BY: N/A
DRAWN BY: TMF
DATE: 09/20/21
N.E. N/A
DESIGNED BY: MMH
CHKD:

SSM SPOTTS, STEVENS & MCCOY
Engineers and Consultants
SCHUYLKILL VALLEY SCHOOL DISTRICT
HVAC UPGRADE
MECHANICAL
SCHEDULES

10/29/21 103916.0008
DATE DIGITAL FILENAME
103916.0008
WORK ORDER NUMBER
M.5-04
DRAWING NUMBER



MITSUBISHI ELECTRIC TRANE HVAC US: CITY MULTI VRF INDOOR UNIT SCHEDULE

Table with columns: System Tag, Tag Reference, Room Name, Model, Type, Capacity (BTU/h), Design Conditions, Performance Data, Fan / Water Flow Data, Electrical Data, Notes / Options. Rows include Room Name (M-NET Address), Model (36000 Btu/h LEV Kit), Type (LEV KIT), Capacity, Design Conditions (Cooling Design Entering Temp), Performance Data (Cooling Total Capacity), Fan / Water Flow Data (Fan Speed Setting), Electrical Data (Voltage / Phase), and Notes / Options (Applicable System Notes).

Table with columns: System Tag, Tag Reference, Room Name, Model, Type, Capacity (BTU/h), Design Conditions, Performance Data, Fan / Water Flow Data, Electrical Data, Notes / Options. Rows include Room Name (M-NET Address), Model (60000 Btu/h LEV Kit), Type (LEV KIT), Capacity, Design Conditions (Cooling Design Entering Temp), Performance Data (Cooling Total Capacity), Fan / Water Flow Data (Fan Speed Setting), Electrical Data (Voltage / Phase), and Notes / Options (Applicable System Notes).

Notes & Options: 1 Nominal cooling capacities are based on indoor coil EAT of 80/67°F (DB/WB), outdoor of 95°F (DB) 2 Nominal heating capacities are based on indoor coil EAT of 70°F (DB), outdoor of 43°F (WB) 3 See outdoor unit schedule for outdoor ambient conditions, connected capacity, and other factors associated with corrected capacities 4 See schematic piping/control diagram for indication of required indoor unit remote controllers, system controllers, and integration devices 5 Full demand corrected capacity includes de-rate associated with indoor vs. outdoor connected capacity indicated on outdoor unit schedule for associated system. Partial corrected capacity assumes sufficient diversity exists such that the connected capacity de-rate does not apply. It is the designer's responsibility to ensure "Diamond System Builder" is set in the appropriate output capacity setting (full demand/partial demand) prior to generating this schedule. 6 It is recommended to always base heating corrected capacity on full demand. 7 Provide Filter Box with MERV 13 Filters 8 Provide Blue Diamond MicroBlue Condensate Pump with Reservoir & Sensor 9 Provide Blue Diamond MaxiBlue Condensate Pump with Reservoir & Sensor - 208/230V

MITSUBISHI ELECTRIC TRANE HVAC US: CITY MULTI VRF OUTDOOR UNIT SCHEDULE

Table with columns: System Tag, Tag Reference, M-NET Address, Model Number, Modules, Capacity (BTU/h), Design Conditions, Performance Data, Electrical Data, Notes / Options. Rows include M-NET Address (51, 59, 51, 59, 51, 59, 51, 59, 51, 52, 59, 64, 81, N/A), Model Number (TUHYE2404AN40AN), Capacity, Design Conditions (Design Cooling Outdoor Temp), Performance Data (Corrected Cooling Total Capacity), Electrical Data (Voltage / Phase), and Notes / Options (Applicable System Notes).

Notes & Options: 1 Nominal cooling capacities are based on indoor coil EAT of 80/67°F (DB/WB), outdoor of 95°F (DB) 2 Nominal heating capacities are based on indoor coil EAT of 70°F (DB), outdoor of 43°F (WB) 3 Efficiency values for EER, IEER, COP are based on AHRI 1230 test method for mixture of ducted & non-ducted indoor units 4 For systems with multiple modules, refrigerant pipe dimensions indicate total system combined piping downstream of module twinning 5 Added field charge listed is in addition to factory charge, this must be updated based upon final as-built piping layout.

VRF HEAT RECOVERY BRANCH CIRCUIT CONTROLLER

Table with columns: System Tag, Tag Reference, M-NET Address, Model Number, Type, Number of Ports, Connected Capacity to BC, Voltage / Phase, MCA, Notes / Options. Rows include M-NET Address (53, 60, 73), Model Number (TCMBM1012JA11N4), Type (Main), Number of Ports (8, 12), Connected Capacity to BC (128,000.0, 114,000.0, 74,000.0), Voltage / Phase (208/230V / 1-phase), MCA (208/230), and Notes / Options (Applicable System Notes).

Notes & Options: 1 Include Diamondback Ball Valves BV-Series, 700PSIG working pressure, full port, 410A rated 2 For sub BC controller CMB-P-NU-GS1 or -GS2, the total connectable indoor unit capacity can be 126,000 BTUs or less. If two sub BC controllers are used, the total indoor unit capacity connected to BOTH sub BC controllers also cannot exceed 126,000 BTUs. For sub BC controller CMB-P-1016NU-HB1 the total connectable indoor unit capacity can be 126,000 BTUs or less. However, if two sub controllers are used, and one of them is CMB-1016NU-HB1, the total indoor unit capacity connected to BOTH sub controllers must NOT exceed 168,000 BTUs.

Vertical table with columns: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50. Rows include: PROJECT MANAGER, ISSUED FOR CONSTRUCTION, DESIGN DATE, DATE, N.B. N/A, DATE, NO. MADE CHD AP/D.

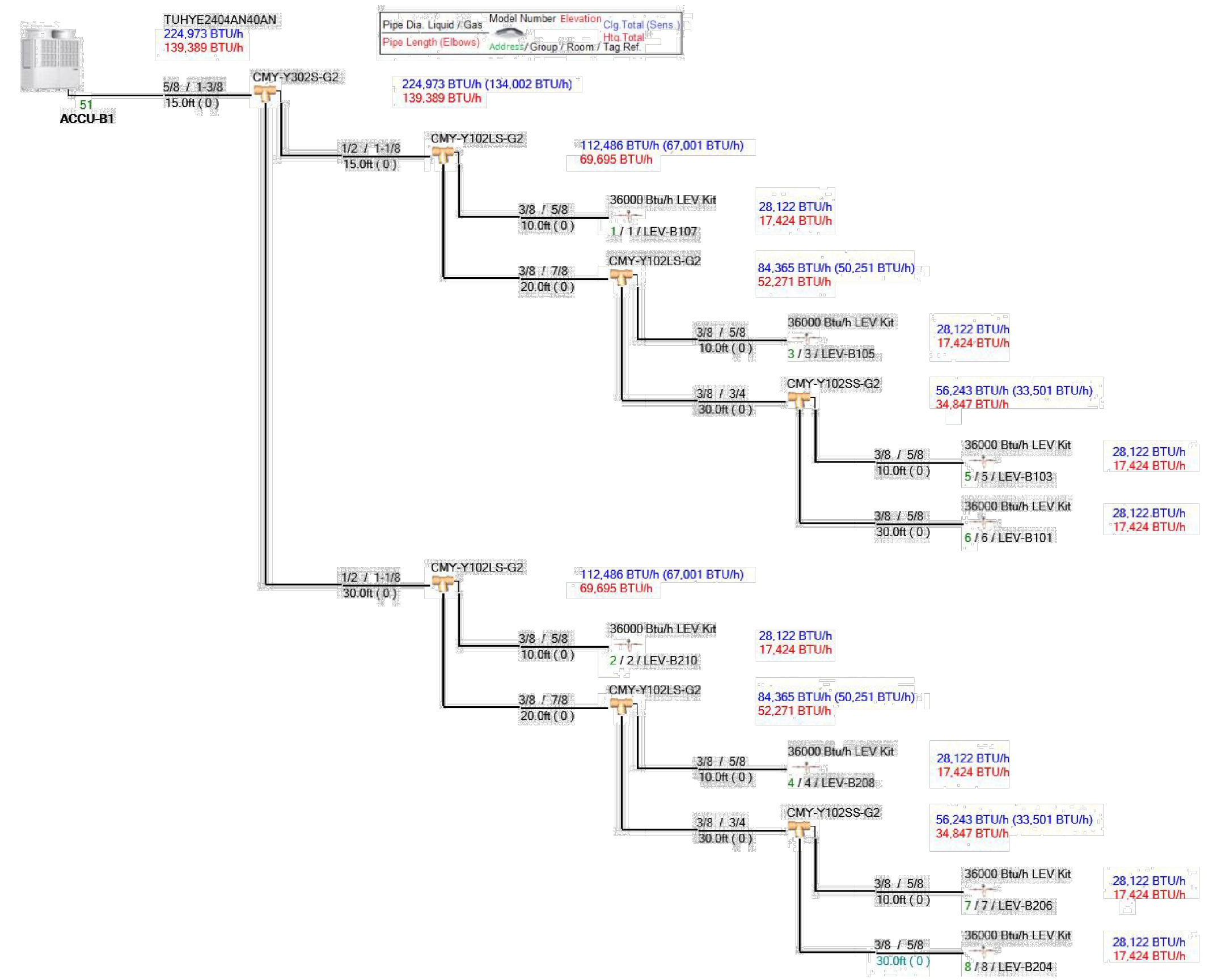
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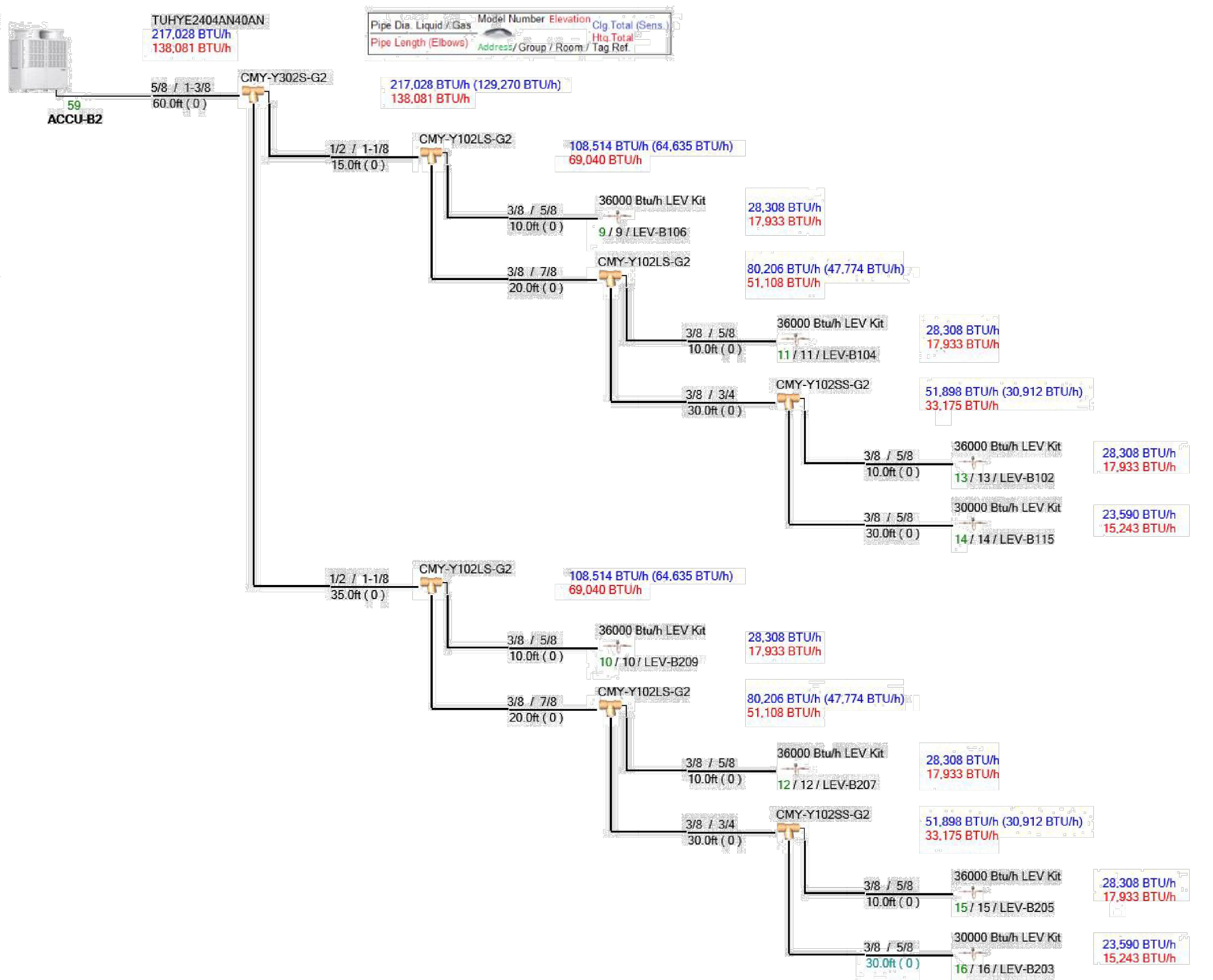
SCHUYLKILL VALLEY SCHOOL DISTRICT BESS COUNTY, PENNSYLVANIA MECHANICAL HVAC UPGRADE SCHEDULES M5-05 COPYRIGHT 2021 SPOTTIS, STEVENS & MCCOY

10/29/21 103916.0008 M-05 DATE DIGITAL FILENAME 103916.0008 WORK ORDER NUMBER M.5-05 DRAWING NUMBER

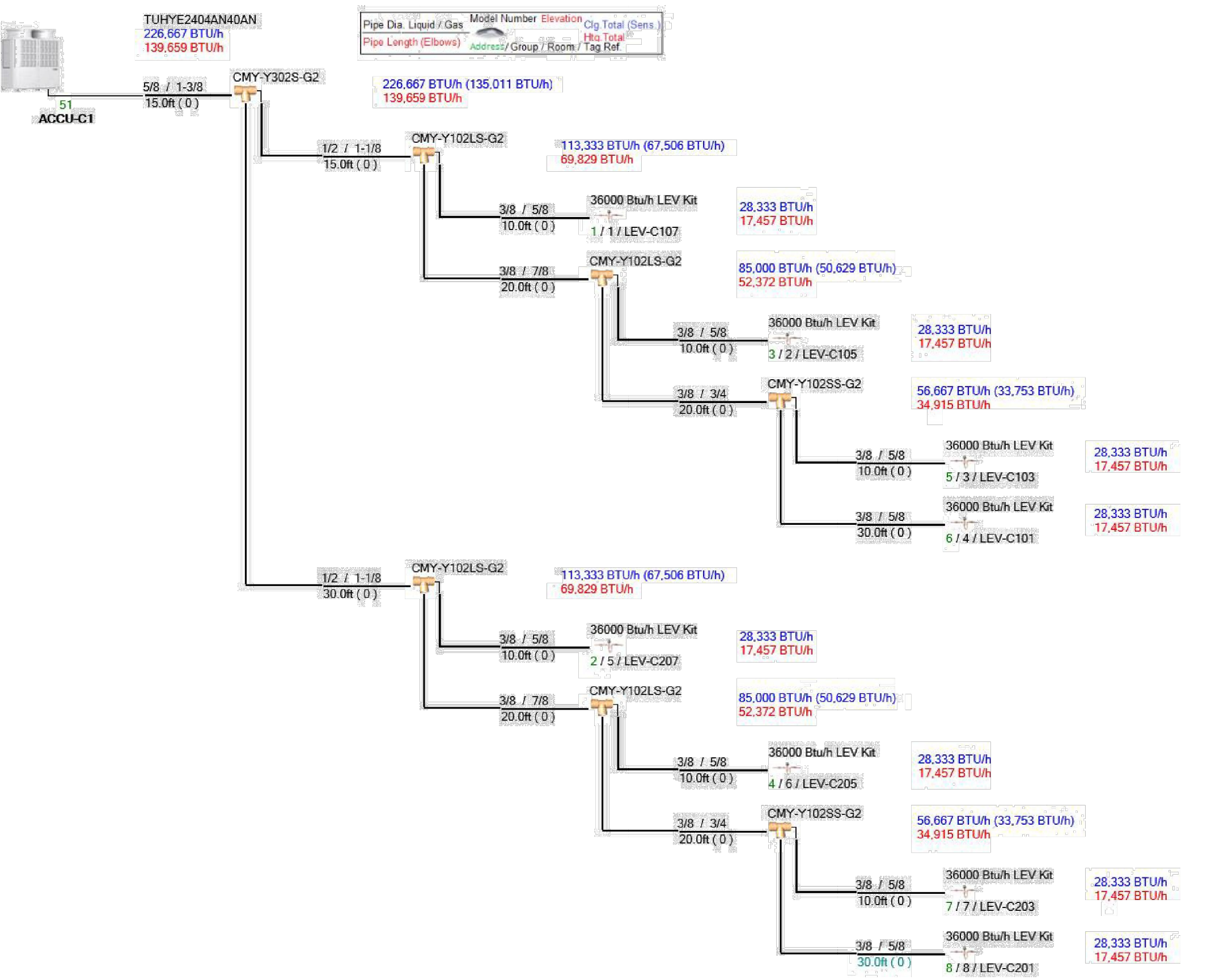




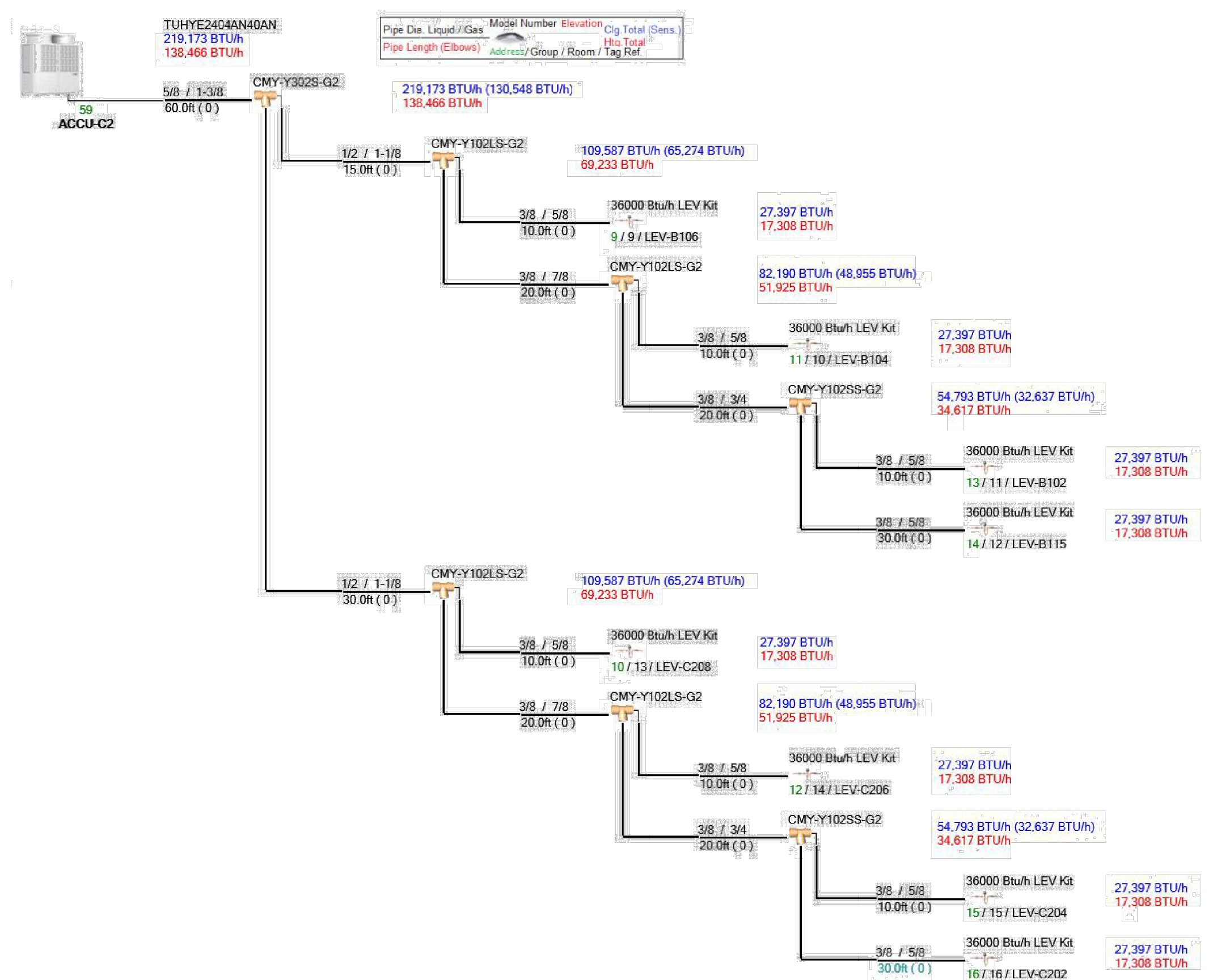
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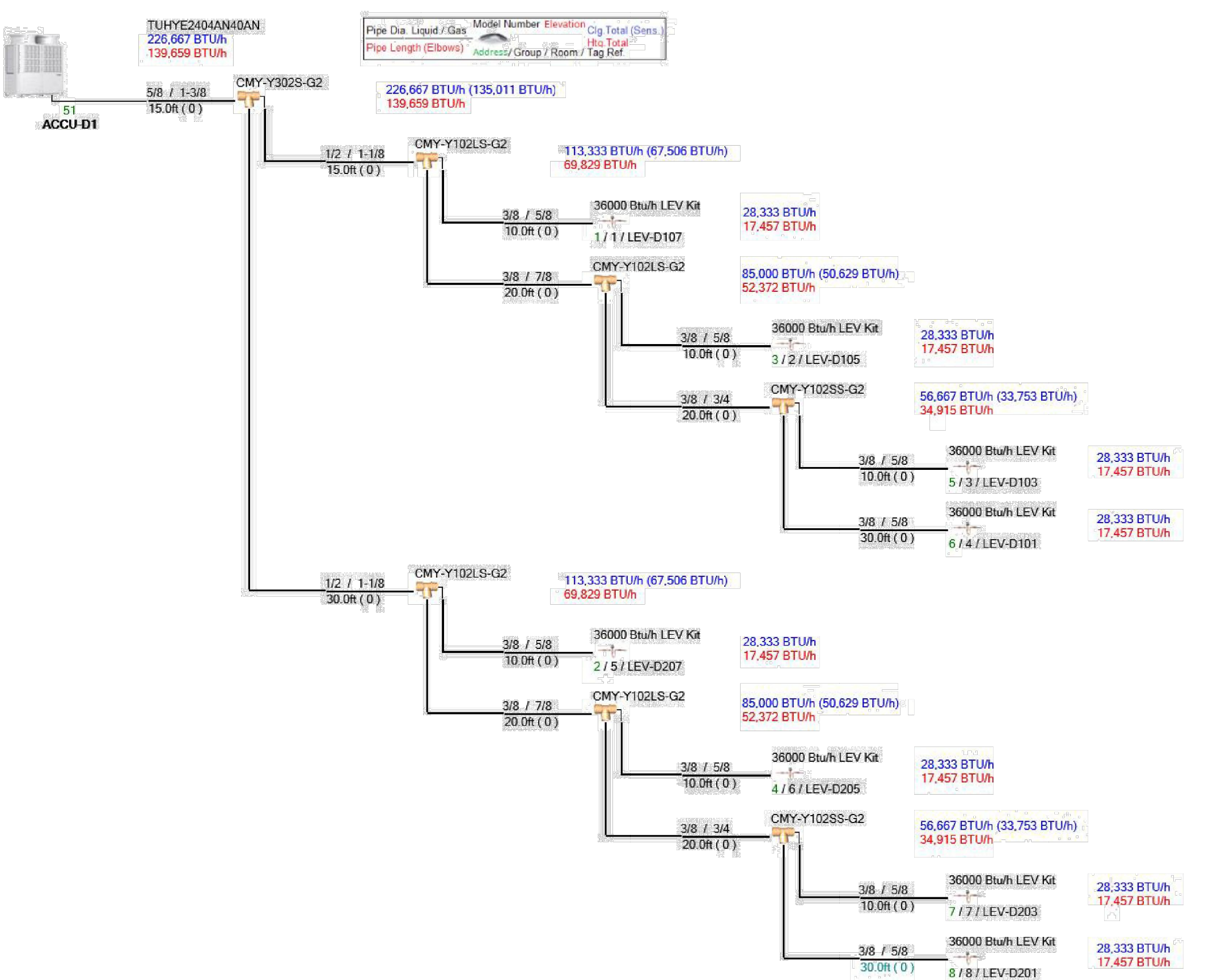
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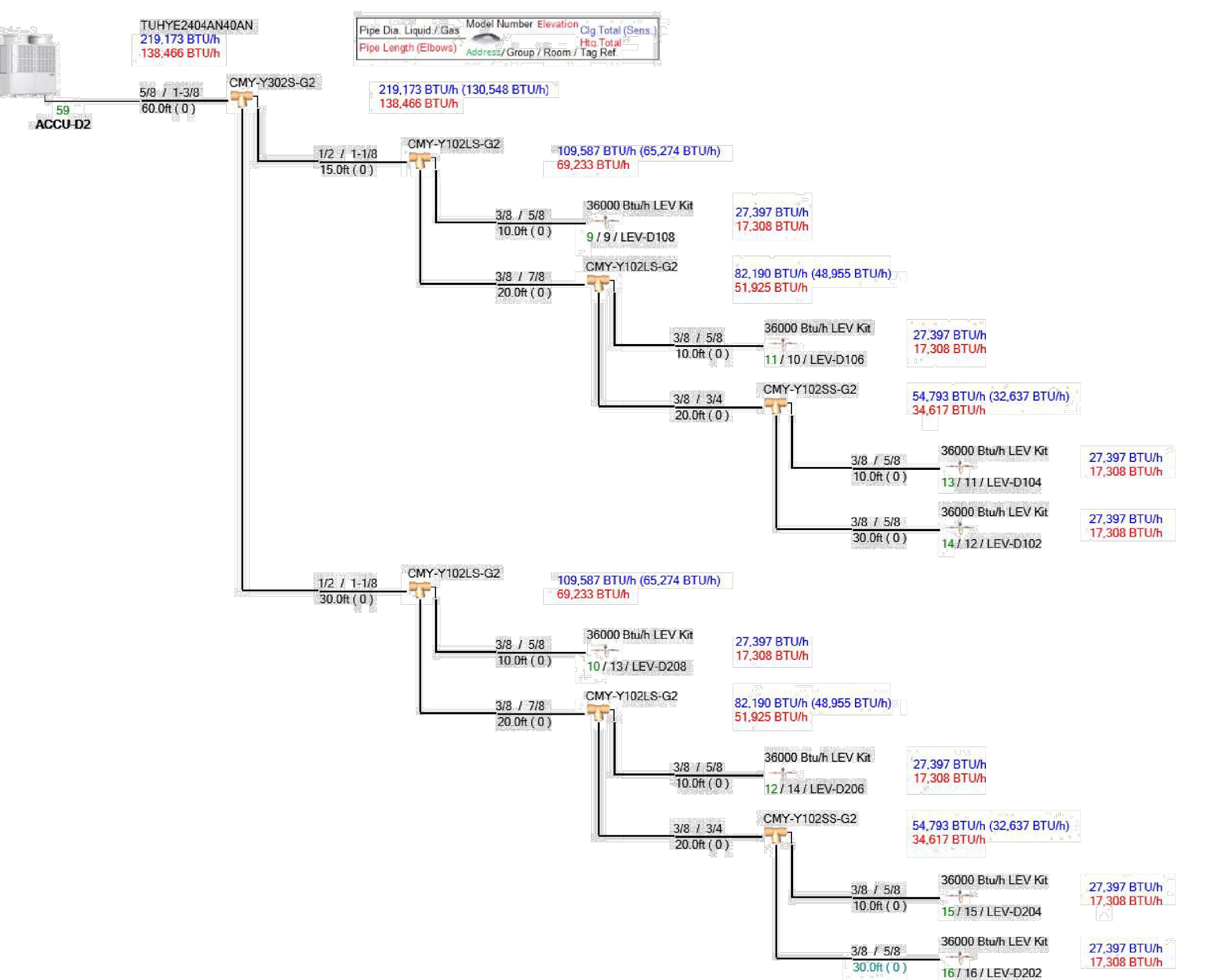
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SECTION C: ACCU-C2 PIPING DIAGRAM  
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SECTION D: ACCU-D1 PIPING DIAGRAM  
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SECTION D: ACCU-D2 PIPING DIAGRAM  
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NO.	DATE	ISSUED FOR	DESCRIPTION
1	08/20/22	ISSUED FOR CONSTRUCTION	
2	08/22/22	ISSUED FOR CONSTRUCTION	
3	08/22/22	ISSUED FOR CONSTRUCTION	

RELEASED FOR:  
**CONSTRUCTION**

PROJECT MANAGER: MMH  
BASE BY: N/A  
DRAWN BY: TMF

N.E. N/A  
DATE: 09/20/21  
CHKD:

**SSM**  
SPOTTS, STEVENS & MCCOY  
Engineers and Consultants  
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**SCHUYLKILL VALLEY SCHOOL DISTRICT**  
BERKS COUNTY, PENNSYLVANIA

MECHANICAL  
HVAC UPGRADE  
SYSTEM SCHEMATICS

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DATE DIGITAL FILENAME

103916.0008  
WORK ORDER NUMBER

**M.5-06**  
DRAWING NUMBER