

General

Pulaski County Schools
Energy Savings and Performance Contract
Addendum #2
March 25th, 2022

CMTA Contact:	Megan Brangers
Email:	MBrangers@cmta.com
Cell Phone:	502-919-1521

Contents

General..... 1

Bid Addendum Items 3

Attachments..... 12

Bid Addendum Items

The following information supersedes or is in addition to information released in the Contract Documents dated March 11th, 2022 and addendum 1 dated March 18th, 2022.

Drawing Items:

Mechanical Addendum Items:

1. M1-2.1 Drawing Series
 - a. Update Mechanical Demolition Notes tag note 1 to read: "EXISTING HEAT PUMP TO BE REMOVED COMPLETELY, INCLUDING ALL ASSOCIATED DUCTWORK, PIPING, CONDENSATE DRAIN AND PUMP (IF APPLICABLE). COORDINATE ELECTRICAL AND CONTROLS WIRING DEMO WITH EC AND TCC. COORDINATE WALL AND FLOOR PATCHING WITH GENERAL TRADES CONTRACTOR."
 - b. Update Mechanical Demolition Notes tag note 2 to read: "2EXISTING LOUVER TO REMAIN. GENERAL TRADES CONTRACTOR TO BLANK OFF THE INSIDE OF THE EXISTING LOUVER WITH SHEET METAL AND INSULATE WITH 2" RIGID INSULATION. COORDINATE LOUVER AND FINAL FINISHES WITH GENERAL TRADES CONTRACTOR."
 - c. Update General Demolition Note A to read: "EXISTING GEOTHERMAL PIPING ROUTED UNDERSLAB TO EXISTING WELLFIELD IS TO REMAIN. PROVIDE INTERIOR SHUT-OFF VALVES AND PETE'S PLUGS AS REQUIRED. REFER TO NEW WORK AND DETAILS FOR MORE INFORMATION."
2. Drawing M1-2.1A
 - a. Refer to Cafeteria 300. Replace tag note 10 with tag note 8 on VAV-1A. Replace tag note 9 with tag note 7 on duct pressure sensor.
 - b. Refer to Classroom 201. Replace tag note 10 with tag note 8 on VAV-6.
 - c. Refer to corridor adjacent to Classroom 201. Replace tag note 9 with tag note 7 on duct pressure sensor.
3. Drawing M1-2.1C
 - a. Add tag note 9 to Mechanical Demolition Notes to read: "EXISTING RELIEF/OUTSIDE AIR LOUVER TO REMAIN AND BE BLANKED OFF WITH INSULATION, SHEET METAL, AND PAINT. REMOVE ASSOCIATED DAMPER IF APPLICABLE." Refer to Gym 126. Tag (2) relief louvers and (2) outside air louvers with tag note 9.
 - b. Refer to Storage 126.2. Change tag note 1 on equipment to tag note 6. Associated condensing unit located outside of Storage 126.2.

4. M1-3.1 Series
 - a. Update General Demolition Note A to read: “EXISTING GEOTHERMAL PIPING ROUTED UNDERSLAB TO EXISTING WELLFIELD IS TO REMAIN. PROVIDE INTERIOR SHUT-OFF VALVES AND PETE’S PLUGS AS REQUIRED. REFER TO DETAILS FOR MORE INFORMATION.”
5. Drawings 1-3.1A
 - a. Refer to Corridor adjacent to Cafeteria 300. Relocate thermostat in vestibule.
 - b. Refer to Cafeteria 300. Remove one thermostat.
 - c. Refer to Dry Storage 322.2. Add new thermostat.
6. Drawing M1-3.1B
 - a. Refer to Toilet 005 and Reception 001. Relocate thermostat from Toilet 005 to Reception 001.
7. Drawing M1-3.1C
 - a. Refer to the Gym 126 and adjacent corridor for revised geothermal and heat pump piping. Add geothermal wellfield bypass and purge ports.
 - b. Refer to Storage 126.1 and Storage 126.2. Add HHP-06 to serve both rooms.
 - c. Refer to corridor adjacent to Gym 126. Add HPS/R take-off from main to HHP-12.
 - d. Refer to Gym 126. Remove two thermostats.
 - e. Refer to Gym 126. Route 3” HPS and 3” GS down wall and through storage 126.2.
8. Drawing M1-3.2
 - a. Omit tag note 6.
 - b. Update Mechanical Notes—Roof tag note 9 as follows: “PROVIDE DUCT SUPPORTS 5'-0" ON CENTER. DUCT SUPPORTS SHALL BE DURA BLOCK DB_DS SERIES. CONTRACTOR TO VERIFY MAXIMUM HEIGHT REQUIRED. CONTRACTOR TO PROVIDE SLIP SHEETS UNDER THE SUPPORTS TO PROTECT THE ROOF. INSULATE DUCTWORK PER SPECIFICATION SECTION 202200.
 - c. Update Mechanical Notes—Roof tag note 12 as follows: “NEW NON-PENETRATING OSHA COMPLIANT EDGE PROTECTION ROOF RAILING SYSTEM. BASIS OF DESIGN: BLUEWATER "SAFETYRAIL 2000" SYSTEM. MAINTAIN EQUIPMENT CLEARANCES. CONTRACTOR TO PROVIDE SLIP SHEETS UNDER THE SUPPORTS TO PROTECT THE ROOF.”
 - d. Update Mechanical Notes—Roof tag note 13 as follows: “APPROXIMATE EXISTING VTR LOCATION. ROUTE NEW PLUMBING VENT ACROSS ROOF AND TERMINATE NO LESS THAN 15' FROM ANY FRESH AIR INTAKE. PROVIDE AND INSTALL NO HUB COUPLING TO

JOIN NEW VENT PIPE AND EXISTING VTR. PROVIDE AND INSTALL NEW PIPE SUPPORTS EVERY 3'-0" FOR NEW VENT PIPING. SUPPORTS SHALL BE COPPER, B-LINE, MODEL C-SERIES OR EQUAL. CONTRACTOR TO PROVIDE SLIP SHEETS UNDER THE SUPPORTS TO PROTECT THE ROOF."

- e. Refer to RTU-4A. Route E(VTR) a minimum of 10 ft away from unit intake. Tag with tag note 13.

9. Drawing M1-4.0

- a. Refer to Mechanical 009 for revised geothermal and heat pump piping loops / system. Add geothermal wellfield bypass and purge ports.
- b. Refer to Storage 126.1. Add 5-gallon pot feeder.
- c. Update Enlarged Mechanical Rooms Tag note 1 to read: "EXISTING PUMPS TO BE COMPLETELY REMOVED INCLUDING ALL EXISTING MECHANICAL, ELECTRICAL AND CONTROLS CONNECTIONS. CONCRETE PAD SHALL BE REMOVED IF APPLICABLE; PATCH AND SMOOTH FLOOR AS REQUIRED."

10. Drawing M1-4.1

- a. Refer to 'Geothermal Piping Schematic' for updates. Add geothermal wellfield bypass and purge ports.
- b. Refer to 'Gym Geothermal Piping Schematic' for updates. Add geothermal wellfield bypass and purge ports. Add 5-gallon pot feeder.

11. Drawing Series M2-2.1

- a. Update Mechanical Demolition Notes tag note 1 to read: EXISTING HEAT PUMP TO BE REMOVED COMPLETELY, INCLUDING ALL ASSOCIATED DUCTWORK, PIPING, CONDENSATE DRAIN AND PUMP (IF APPLICABLE), COORDINATE ELECTRICAL AND CONTROL WIRING DEMO WITH EC AND TCC. COORDINATE WALL AND FLOOR PATCHING WITH GENERAL TRADES CONTRACTOR.
- b. Update Mechanical Demolition Notes tag note 2 to read: EXISTING LOUVER TO REMAIN. GENERAL TRADES CONTRACTOR TO BLANK OFF THE INSIDE OF THE EXISTING LOUVER WITH SHEET METAL AND INSULATE WITH 2" RIGID INSULATION. COORDINATE LOUVER AND FINAL FINISHES WITH GENERAL TRADES CONTRACTOR.
- c. Update General Demolition Note A to read: "EXISTING GEOTHERMAL PIPING ROUTED UNDERSLAB TO EXISTING WELLFIELD IS TO REMAIN. PROVIDE INTERIOR SHUT-OFF VALVES AND PETE'S PLUGS AS REQUIRED. REFER TO NEW WORK AND DETAILS FOR MORE INFORMATION."

12. Drawing M2-3.2

- a. Update Mechanical Notes – Roof tag note 3 to read: ROUTE THE REFRIGERANT PIPING DOWN THROUGH A NEW ROOF CURB/PIPING PORTAL. PROVIDE A ROOF PRODUCTS MODEL RPPC-90 OR APPROVED EQUAL ROOF CURB WITH PIPE CHASE. REFER TO THE PIPE PORTAL DETAIL ON SHEET M-6.2 FOR ADDITIONAL INFORMATION. ROOF CURB SHALL BE 3'-0" AWAY FROM CONDENSING UNIT. REFRIGERANT PIPING SHALL BE SUPPORTED BY COOPER B-LINE C-SERIES ROOFTOP SUPPORTS. CONTRACTOR TO PROVIDE SLIP SHEETS UNDER THE SUPPORTS TO PROTECT THE ROOF.
- b. Update Mechanical Notes – Roof tag note 5 to read: PROVIDE DUCT SUPPORTS 5'-0" ON CENTER. DUCT SUPPORTS SHALL BE DURA BLOCK DB_DS SERIES. CONTRACTOR TO VERIFY MAXIMUM HEIGHT REQUIRED. CONTRACTOR TO PROVIDE SLIP SHEETS UNDER THE SUPPORTS TO PROTECT THE ROOF. INSULATE DUCTWORK PER SPECIFICATION SECTION 202200.
- c. Update Mechanical Notes – Roof tag note 7 to read: NEW NON-PENETRATING OSHA COMPLIANT EDGE PROTECTION ROOF RAILING SYSTEM. BASIS OF DESIGN: BLUEWATER "SAFETYRAIL 2000" SYSTEM. MAINTAIN EQUIPMENT CLEARANCES. CONTRACTOR TO PROVIDE SLIP SHEETS UNDER THE SUPPORTS TO PROTECT THE ROOF.

13. M2-4.1 Series

- a. Update General Demolition Note A to read: "EXISTING GEOTHERMAL PIPING ROUTED UNDERSLAB TO EXISTING WELLFIELD IS TO REMAIN. PROVIDE INTERIOR SHUT-OFF VALVES AND PETE'S PLUGS AS REQUIRED. REFER TO DETAILS FOR MORE INFORMATION."

14. Drawing M2-5.0

- a. Refer to Mechanical Room 027 for revised geothermal and heat pump piping. Add geothermal wellfield bypass and purge ports. Add 5-gallon pot feeder.
- b. Refer to Custodial Receiving 041 for revised geothermal and heat pump piping. Add geothermal wellfield bypass and purge ports.
- c. Refer to 'Geothermal Piping Schematic - Custodial Receiving 041' for updates. Add geothermal wellfield bypass and purge ports.
- d. Refer to 'Geothermal Piping Schematic - Mechanical Room 027' for updates. Add geothermal wellfield bypass and purge ports. Add 5-gallon pot feeder.

15. Drawing M2-5.1

- a. Refer to Mechanical Mezzanine Hydronics for revised geothermal and heat pump piping. Add geothermal wellfield bypass and purge ports. Add 5-gallon pot feeder.
- b. Refer to 'Geothermal Piping Schematic - Mechanical Mezzanine' for updates. Add geothermal wellfield bypass and purge ports. Add 5-gallon pot feeder.

16. Drawing Series M3-2.1

- a. Update Mechanical Demolition Notes tag note 1 to read: EXISTING HEAT PUMP TO BE REMOVED COMPLETELY, INCLUDING ALL ASSOCIATED DUCTWORK, PIPING, CONDENSATE DRAIN AND PUMP (IF APPLICABLE), COORDINATE ELECTRICAL AND CONTROL WIRING DEMO WITH EC AND TCC. COORDINATE WALL AND FLOOR PATCHING WITH GENERAL TRADES CONTRACTOR.
- b. Update Mechanical Demolition Notes tag note 2 to read: EXISTING LOUVER TO REMAIN. GENERAL TRADES CONTRACTOR TO BLANK OFF THE INSIDE OF THE EXISTING LOUVER WITH SHEET METAL AND INSULATE WITH 2" RIGID INSULATION. COORDINATE LOUVER AND FINAL FINISHES WITH GENERAL TRADES CONTRACTOR.
- c. Update General Demolition Note A to read: "EXISTING GEOTHERMAL PIPING ROUTED UNDERSLAB TO EXISTING WELLFIELD IS TO REMAIN. PROVIDE INTERIOR SHUT-OFF VALVES AND PETE'S PLUGS AS REQUIRED. REFER TO NEW WORK AND DETAILS FOR MORE INFORMATION."

17. M3-3.1 Series

- a. Update General Demolition Note A to read: "EXISTING GEOTHERMAL PIPING ROUTED UNDERSLAB TO EXISTING WELLFIELD IS TO REMAIN. PROVIDE INTERIOR SHUT-OFF VALVES AND PETE'S PLUGS AS REQUIRED. REFER TO DETAILS FOR MORE INFORMATION."

18. Drawing M3-3.2

- a. Update Mechanical Notes – Roof tag note 7 to read: ROUTE THE REFRIGERANT PIPING DOWN THROUGH A NEW ROOF CURB/PIPING PORTAL. PROVIDE A ROOF PRODUCTS MODEL RPPC-90 OR APPROVED EQUAL ROOF CURB WITH PIPE CHASE. REFER TO THE PIPE PORTAL DETAIL ON SHEET M-6.2 FOR ADDITIONAL INFORMATION. ROOF CURB SHALL BE 3'-0" AWAY FROM CONDENSING UNIT. REFRIGERANT PIPING SHALL BE SUPPORTED BY COOPER B-LINE C-SERIES ROOFTOP SUPPORTS. CONTRACTOR TO PROVIDE SLIP SHEETS UNDER THE SUPPORTS TO PROTECT THE ROOF.
- b. Update Mechanical Notes – Roof tag note 9 to read: PROVIDE DUCT SUPPORTS 5'-0" ON CENTER. DUCT SUPPORTS SHALL BE DURA BLOCK DB_DS SERIES. CONTRACTOR TO VERIFY MAXIMUM HEIGHT REQUIRED. CONTRACTOR TO PROVIDE SLIP SHEETS UNDER THE SUPPORTS TO PROTECT THE ROOF. INSULATE DUCTWORK PER SPECIFICATION SECTION 202200.
- c. Update Mechanical Notes – Roof tag note 12 to read: NEW NON-PENETRATING OSHA COMPLIANT EDGE PROTECTION ROOF RAILING SYSTEM. BASIS OF DESIGN: BLUEWATER "SAFETYRAIL 2000" SYSTEM. MAINTAIN EQUIPMENT CLEARANCES. CONTRACTOR TO PROVIDE SLIP SHEETS UNDER THE SUPPORTS TO PROTECT THE ROOF.
- d. Update Mechanical Notes – Roof tag note 13 to read: APPROXIMATE EXISTING VTR LOCATION. ROUTE NEW PLUMBING VENT ACROSS ROOF AND TERMINATE NO LESS

THAN 15' FROM ANY FRESH AIR INTAKE. PROVIDE AND INSTALL NO HUB COUPLING TO JOIN NEW VENT PIPE AND EXISTING VTR. PROVIDE AND INSTALL NEW PIPE SUPPORTS EVERY 3'-0" FOR NEW VENT PIPING. SUPPORTS SHALL BE COPPER, B-LINE, MODEL C-SERIES OR EQUAL. CONTRACTOR TO PROVIDE SLIP SHEETS UNDER THE SUPPORTS TO PROTECT THE ROOF.

19. Drawing M3-4.0

- a. Refer to Enlarged Boiler Room – Mechanical for revised geothermal and heat pump piping. Add geothermal wellfield bypass and purge ports.
- b. Refer to 'Geothermal Piping Schematic' for updates. Add geothermal wellfield bypass and purge ports.

20. Drawing Series M4-2.1

- a. Update Mechanical Demolition Notes tag note 1 to read: EXISTING HEAT PUMP TO BE REMOVED COMPLETELY, INCLUDING ALL ASSOCIATED DUCTWORK, PIPING, CONDENSATE DRAIN AND PUMP (IF APPLICABLE), COORDINATE ELECTRICAL AND CONTROL WIRING DEMO WITH EC AND TCC. COORDINATE WALL AND FLOOR PATCHING WITH GENERAL TRADES CONTRACTOR.
- b. Update Mechanical Demolition Notes tag note 2 to read: EXISTING LOUVER TO REMAIN. GENERAL TRADES CONTRACTOR TO BLANK OFF THE INSIDE OF THE EXISTING LOUVER WITH SHEET METAL AND INSULATE WITH 2" RIGID INSULATION. COORDINATE LOUVER AND FINAL FINISHES WITH GENERAL TRADES CONTRACTOR.
- c. Update General Demolition Note A to read: "EXISTING GEOTHERMAL PIPING ROUTED UNDERSLAB TO EXISTING WELLFIELD IS TO REMAIN. PROVIDE INTERIOR SHUT-OFF VALVES AND PETE'S PLUGS AS REQUIRED. REFER TO NEW WORK AND DETAILS FOR MORE INFORMATION."

21. M4-3.1 Series

- a. Update General Demolition Note A to read: "EXISTING GEOTHERMAL PIPING ROUTED UNDERSLAB TO EXISTING WELLFIELD IS TO REMAIN. PROVIDE INTERIOR SHUT-OFF VALVES AND PETE'S PLUGS AS REQUIRED. REFER TO DETAILS FOR MORE INFORMATION."

22. Drawing M4-3.2

- a. Renumber Mechanical Notes – Roof tag notes 14-22 as 5-13. Floor plan numbering remains as-is.
- b. Update Mechanical Notes – Roof tag note 7 to read: ROUTE THE REFRIGERANT PIPING DOWN THROUGH A NEW ROOF CURB/PIPING PORTAL. PROVIDE A ROOF PRODUCTS MODEL RPPC-90 OR APPROVED EQUAL ROOF CURB WITH PIPE CHASE. REFER TO THE PIPE PORTAL DETAIL ON SHEET M-6.2 FOR ADDITIONAL INFORMATION. ROOF CURB SHALL BE 3'-0" AWAY FROM CONDENSING UNIT. REFRIGERANT PIPING SHALL BE

SUPPORTED BY COOPER B-LINE C-SERIES ROOFTOP SUPPORTS. CONTRACTOR TO PROVIDE SLIP SHEETS UNDER THE SUPPORTS TO PROTECT THE ROOF.

- c. Update Mechanical Notes – Roof tag note 9 to read: PROVIDE DUCT SUPPORTS 5'-0" ON CENTER. DUCT SUPPORTS SHALL BE DURA BLOCK DB_DS SERIES. CONTRACTOR TO VERIFY MAXIMUM HEIGHT REQUIRED. CONTRACTOR TO PROVIDE SLIP SHEETS UNDER THE SUPPORTS TO PROTECT THE ROOF. INSULATE DUCTWORK PER SPECIFICATION SECTION 202200.
- d. Update Mechanical Notes – Roof tag note 12 to read: NEW NON-PENETRATING OSHA COMPLIANT EDGE PROTECTION ROOF RAILING SYSTEM. BASIS OF DESIGN: BLUEWATER "SAFETYRAIL 2000" SYSTEM. MAINTAIN EQUIPMENT CLEARANCES. CONTRACTOR TO PROVIDE SLIP SHEETS UNDER THE SUPPORTS TO PROTECT THE ROOF.
- e. Omit Mechanical Notes – Roof tag note 13 (formally number 22).

23. Drawing M4-4.0

- a. Refer to Enlarged Platform 236 – Mechanical for revised geothermal and heat pump piping. Add purge ports and tag note 19. Add 5-gallon pot feeder.
- b. Refer to 'Gym Platform Piping Schematic' for updates. Add geothermal wellfield bypass and purge ports. Add 5-gallon pot feeder.
- c. Refer to Enlarged Boiler Room 140B – Mechanical for revised geothermal and heat pump piping. Add geothermal wellfield bypass and purge ports
- d. Refer to 'Geothermal Piping Schematic' for updates. Add geothermal wellfield bypass and purge ports.
- e. Change EH-6 to EH-7.

24. Drawing M-6.0

- a. Add Firestopping details.

25. Drawing M-6.1

- a. Refer to the 'Differential Pressure Sensor Detail'. Update tubing to the differential pressure sensor to be ½" copper tubing.
- b. Refer to Console/Vertical/Horizontal Unit Heat Pump Details. Clarify that the control valve is provided by the TCC.
- c. Refer to Console Heat Pump Details. Add (2) Pete's plugs in the GS/GR entrance, one on the geothermal supply and one on the geothermal return. Locate Pete's plug on the wellfield circuit side of the shut-off valves.

26. Drawing M-6.2

- a. Refer to Geothermal Rooftop Unit Piping Schematic. Clarify that the control valve is provided by the TCC.

27. Drawings M-7.2

- a. Refer to RTU-2-01 on Roof Top Water Source Heat Pump Schedule (30% Glycol). Change TOTAL HEATING CAP. (MBH) to 120.9.

28. Drawings M-7.4

- a. Refer to Electric Heater Schedule Add EH-7. Manufacturer: Markel. Model: 5100 Series. Mounting Type: Horizontal Unit Heater. Nominal Airflow (CFM): 700. Electrical Connection: 240V / 3 ϕ / 60 Hz. Total Heat (kW): 7.5. Thermostat Type: Wall Mounted. Remarks: 1-3, 7, 8.

Specification Items:

1. Specification 201305 - GEOTHERMAL LOOP PIPING SYSTEM, CLOSED LOOP GROUND HEAT EXCHANGER & HEAT TRANSFER FLUID (and existing site plans for all schools)
 - a. Refer to Part 6 – FLUSHING, PURGING, PRESSURE AND FLOW TESTING: Clarification – this specification section applies to both new and existing wellfields. Contractor to submit to engineer, detailed flushing and purging plan for each wellfield prior to performing work.
 - b. Refer to Part 6.3 – Flush and purging requirements. Omit the requirement for piping network purges at 3, 6, 9 and 12 months. Requirements are as follows:
 1. Drain existing systems (applicable to existing wellfields).
 2. Connect to new piping header/mains.
 3. Isolate and flush/purge connected wellfield.
 4. Isolate and flush/purge building side loop.
 5. Repeat steps 3 and 4 upon substantial completion.
 6. Steps 3 and 4 must be repeated if the system is opened after the substantial completion flush/purge.

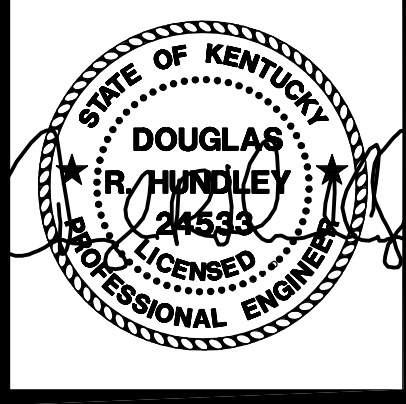
2. Specification 201310 – PIPE FILLING, CLEANING, FLUSHING, PURGING AND CHEMICAL TREATMENT (and existing site plans for all schools)
 - a. Clarification – this specification section applies to both new and existing wellfields and piping systems. Contractor to submit to engineer, detailed flushing and purging plan for each wellfield prior to performing work.
 - b. Omit Part 4.3 and 4.4 – Refer to Specification 201305.

Attachments

The following documents can be found in the files accompanying this addendum.

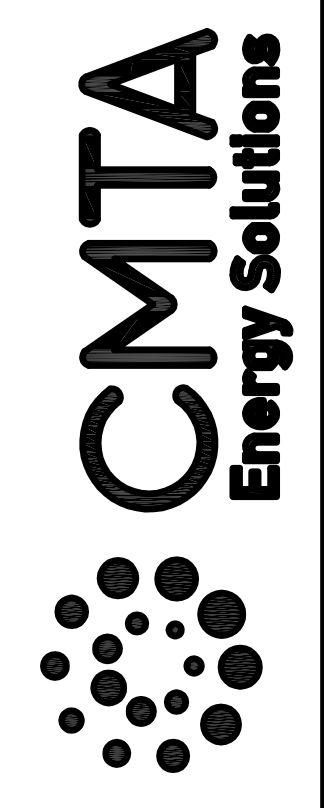
1. Geo System Upgrades_ADD2_Mech.pdf
2. Geo System Upgrades_ADD2_Structure.pdf

RECEIPT OF THIS ADDENDUM MUST BE ACKNOWLEDGED ON THE BID FORM.



BID SET

9519 Civic Way, Suite 100
Prospect, KY 40059
T: 502 4094062, F: 502 9191521
M.Brangiers@CMTA.COM



Pulaski County Schools
GUARANTEED ENERGY SAVINGS CONTRACT
EUBANK ELEMENTARY SCHOOL
Eubank, KY
FIRST FLOOR MECHANICAL - AREA C

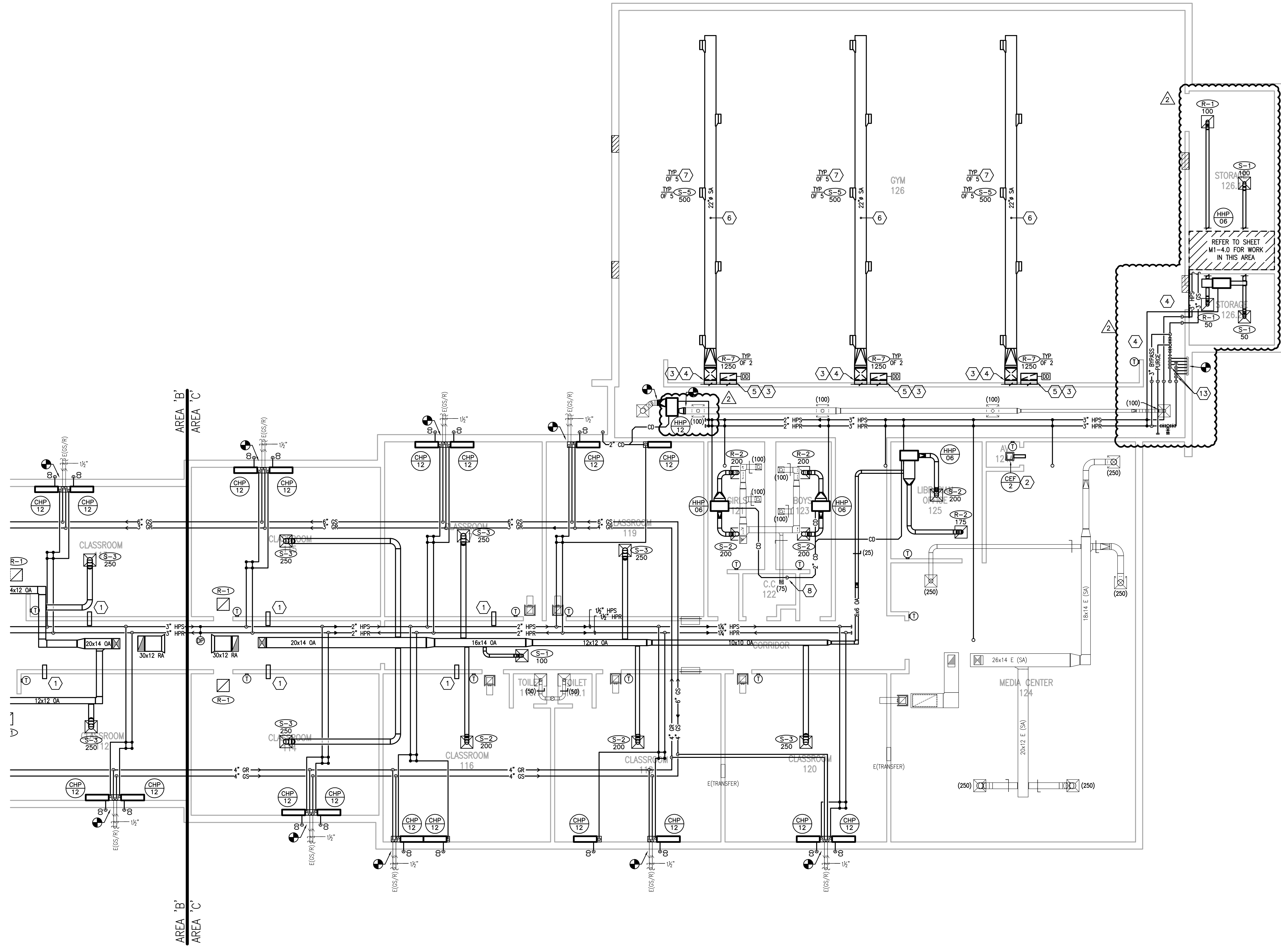
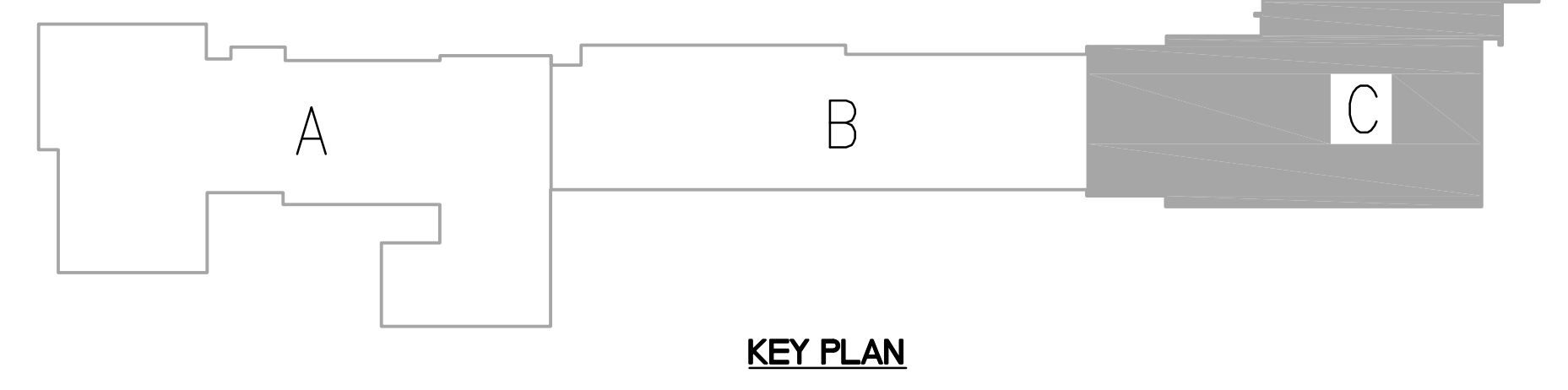
REVISIONS
▲ ADDENDUM #1 - 3/18/22
▲ ADDENDUM #2 - 3/25/22

DATE: 03.11.2022
DRAWN: BM, LA, HC, NT
CHECKED: CG

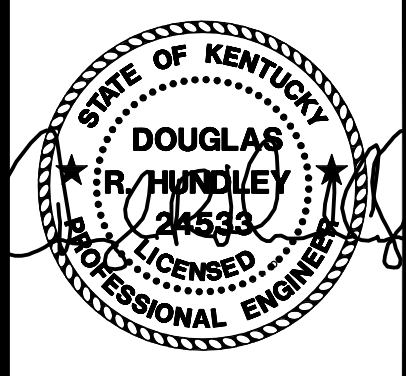
SET NO.

M1-
3.1C

- | GENERAL NOTES: | MECHANICAL NOTES: |
|--|---|
| <p>A. EXISTING GEOTHERMAL PIPING ROUTED UNDERSLAB TO EXISTING WELLFIELD IS TO REMAIN. PROVIDE INTERIOR SHUT-OFF VALVES AND TEST'S PLUGS AS REQUIRED. REFER TO DETAILS FOR MORE INFORMATION.</p> <p>B. CONTRACTOR RESPONSIBLE FOR VERIFYING PIPE FLOW DIRECTION AND PIPE SIZE FOR CONNECTION.</p> <p>C. HEAT PUMP INSTALLATION - REFER TO DETAILS ON SHEET M-6.1 FOR PIPE CHASE INFORMATION AND VALVE KIT INFORMATION/ LOCATIONS.</p> <p>D. PROVIDE A HIGH EFFICIENCY TAKE-OFF AND VOLUME DAMPER AT EACH GRILLE, REGISTER, AND DIFFUSER BRANCH RUNOUT, TYPICAL OF ALL UNLESS DAMPER LOCATION IS SHOWN ON FLOOR PLANS. REFER TO THE DETAIL ON SHEET M-6.0 FOR SPECIFIC REQUIREMENTS.</p> <p>E. R-1 GRILLE, REFER TO THE RETURN AIR CANOPY DETAIL ON SHEET M-6.0.</p> <p>F. FOR ALL DUCTS OPEN TO PLENUM SPACE, PROVIDE A 1/2" MESH SCREEN ON THE DUCT OPENING.</p> <p>G. COORDINATE INSTALLATION OF DUCT MOUNTED SMOKE DETECTORS WITH ELECTRICAL CONTRACTOR.</p> <p>H. FIRE DAMPER, REFER TO THE DETAIL ON SHEET M-6.0.</p> <p>I. BALANCE ALL DAMPERS (NEW AND EXISTING) TO CFM LISTED ON THE DRAWING - COORDINATE WITH TAB CONTRACTOR.</p> <p>J. TEMPERATURE CONTROL PANELS (TCP) - COORDINATE LOCATION AND REQUIREMENTS WITH TCC AND ELECTRICAL CONTRACTOR.</p> <p>K. ALL GRILLES THAT ARE TO REMAIN SHALL BE CLEANED.</p> | <p>1. PROVIDE A 8"x8" SHEET METAL SLEEVE IN WALL ABOVE THE CEILING FOR RETURN AIR PATH.</p> <p>2. DISCHARGE 8" DUCT ABOVE CEILING.</p> <p>3. PROVIDE ESCUTCHEON PLATE AT DUCT PENETRATION.</p> <p>4. EXPOSED DUCTWORK/PIPING TO HAVE CANVAS JACKET AND PAINTED. ALL ASSOCIATED STRUCTURAL/PILING BRACING/HANGERS/SUPPORTS TO BE PAINTED TO MATCH ADJACENT SURFACES. TURN DUCTWORK UP WALL AND TRANSITION TO DOUBLE WALL DUCTWORK AT LOCATION INDICATED.</p> <p>5. PROVIDE PAINT GRP DUCTWORK TO ALLOW EXPOSED DUCTWORK TO BE PAINTED. ALL ASSOCIATED STRUCTURAL BRACING/HANGERS TO BE PAINTED TO MATCH ADJACENT SURFACES. TURN DUCTWORK UP WALL AND MOUNT GRILLES IN FACE OF DUCTWORK.</p> <p>6. EXPOSED ROUND/OVAL DUCTWORK TO BE DOUBLE WALL DUCT AND PAINTED. ALL STRUCTURAL BRACING FOR DUCTWORK TO BE PAINTED TO MATCH EXISTING SURFACES. NO DUCT SEALANT TO BE USED ON DUCTWORK TO BE PAINTED. SUPPORT WITH AIRCRAFT CABLES AND SELF-TIGHTENING LOCKS.</p> <p>7. DIFFUSERS SHALL BE INSTALLED AT A 45° ANGLE TOWARDS THE FLOOR. TYPICAL OF ALL DIFFUSERS.</p> <p>8. SPILL CONDENSATE TO EXISTING FLOOR DRAIN/MOP SINK IN THIS AREA.</p> <p>9. PROVIDE FULL SIZE ISOLATION VALVES. 3/4" VALVED DRAIN LINES IN PIPING WITH THREADED HOSE CONNECTION AND CAP ON DRAIN LINE.</p> <p>10. COORDINATE MOUNTING HEIGHT OF AC UNIT WITH GENERAL CONTRACTOR. ROUTE REFRIGERANT PIPING UP TO ROOF MOUNTED CONDENSING UNIT THROUGH NEW PIPING PORTAL, REFER TO ROOF PLAN FOR ADDITIONAL INFORMATION. FASTEN CONDENSATE TO WALL WITH TWO HOLE TRAP AND SPILL TO GRADE.</p> <p>11. COORDINATE MOUNTING HEIGHT OF AC UNIT WITH GENERAL CONTRACTOR. ROUTE REFRIGERANT PIPING UP TO ROOF MOUNTED CONDENSING UNIT THROUGH NEW PIPING PORTAL, REFER TO ROOF PLAN FOR ADDITIONAL INFORMATION. PROVIDE CONDENSATE PUMP FOR UNIT. PUMP SHALL BE LITTLE GANT MODEL VCMA WITH 1/2 GALLON TANK AND OVERFLOW SWITCH. ELECTRICAL DATA: 1/2 HP MOTOR, 120V/14/60 HZ.</p> <p>12. EXISTING VAV CONTROLLER TO BE REPLACED. COORDINATE ALL CONTROLS SCOPE WITH TCC. TYPICAL OF ALL EXISTING VAV BOXES.</p> <p>13. INSTALL AND CAP 1" GEOTHERMAL PIPES FOR POSSIBLE FUTURE CONNECTION. PROVIDE FULL SIZE ISOLATION VALVES.</p> |

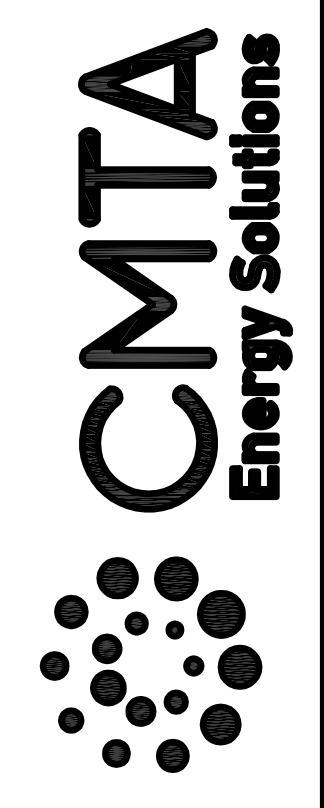


PARTIAL FIRST FLOOR PLAN (AREA C) - MECHANICAL
SCALE: 1/8" = 1'-0"
1
M1-3.1C



BID SET

9519 Civic Way, Suite 100
Prospect, KY 40059
T: 502 4094062, F: 502 9191521
M.Brangers@CMTA.COM



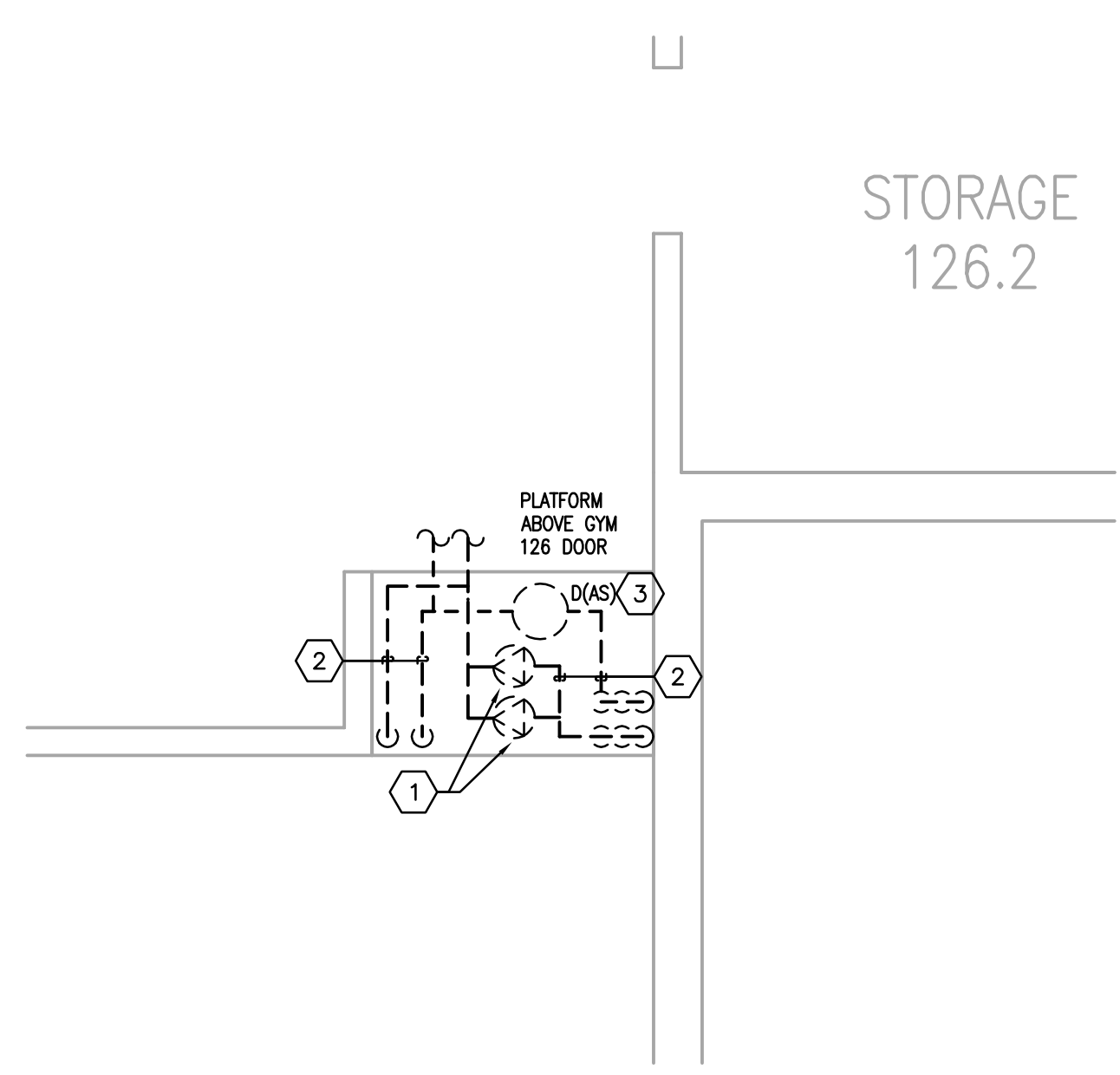
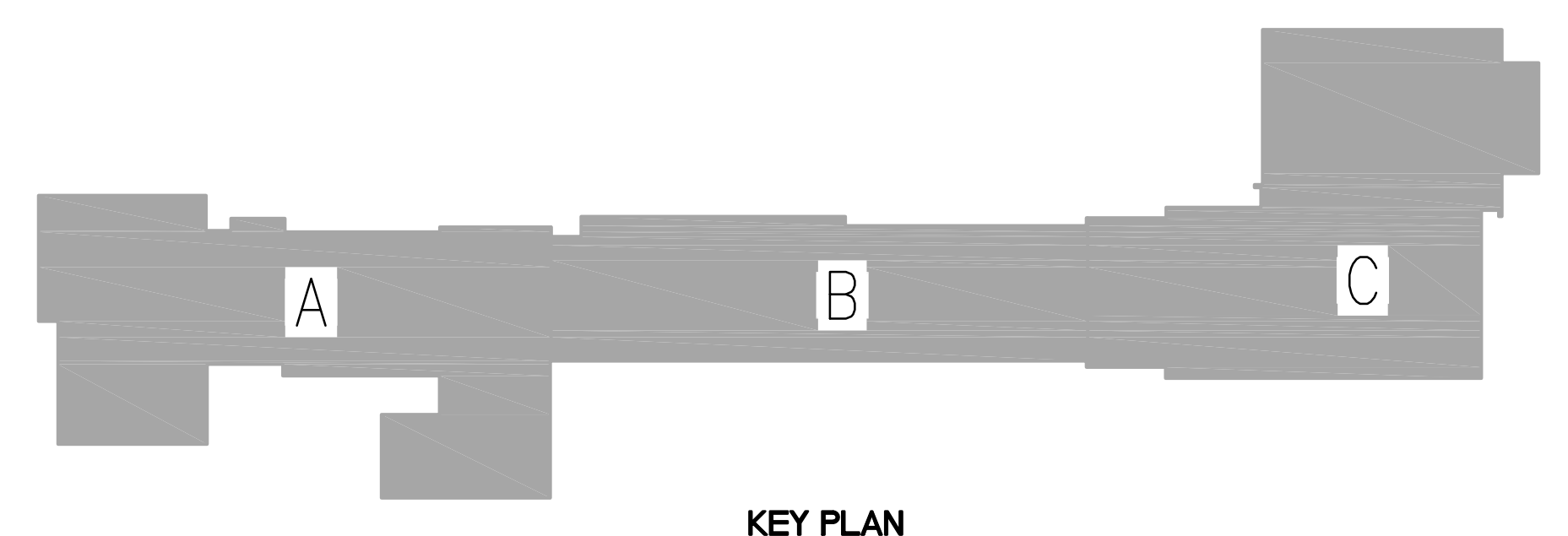
Pulaski County Schools
GUARANTEED ENERGY SAVINGS CONTRACT
EUBANK ELEMENTARY SCHOOL
Eubank, KY
ENLARGED MECHANICAL PLANS

REVISIONS
▲ ADDENDUM #1 - 3/18/22
▲ ADDENDUM #2 - 3/25/22

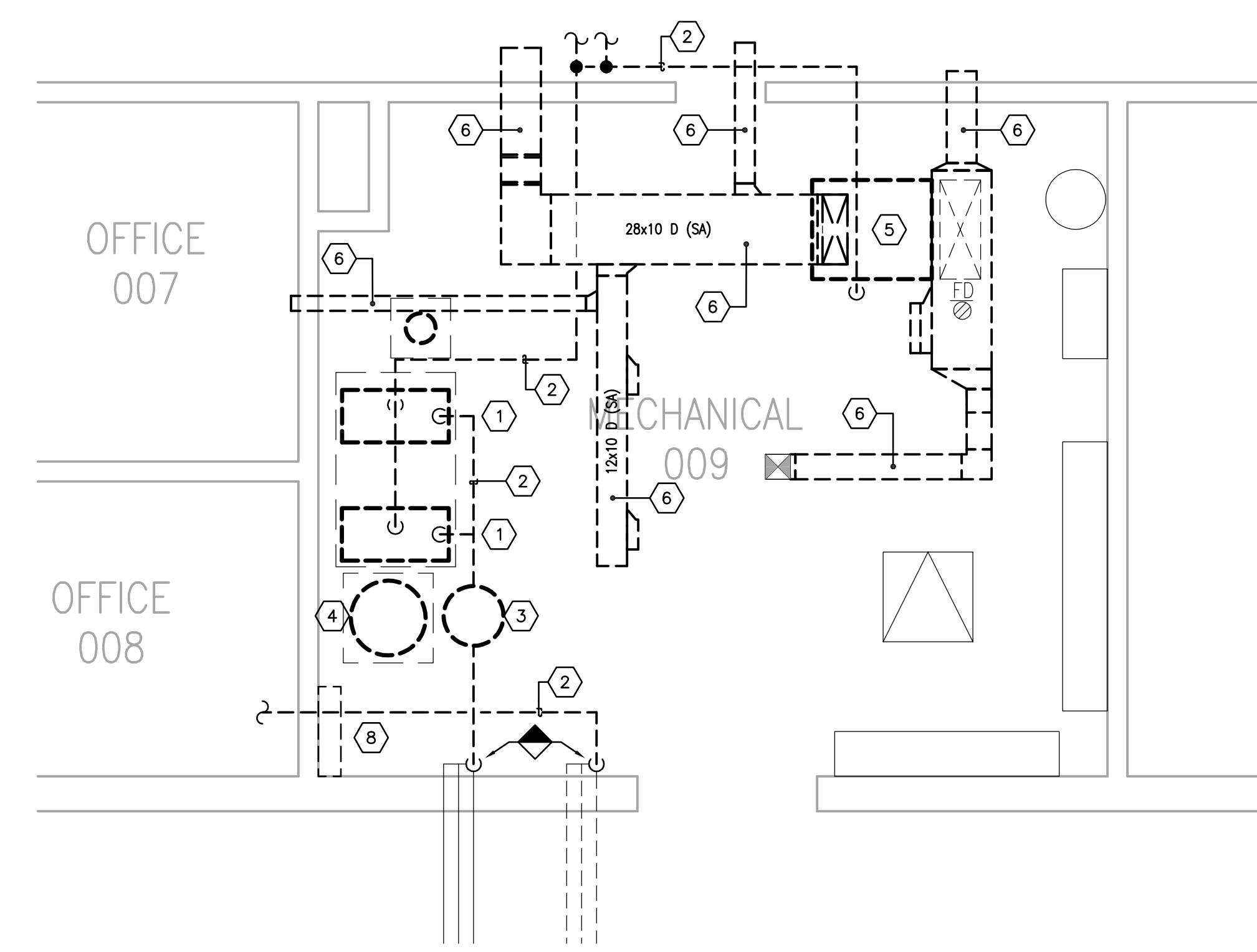
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SET NO.

M1-4.0

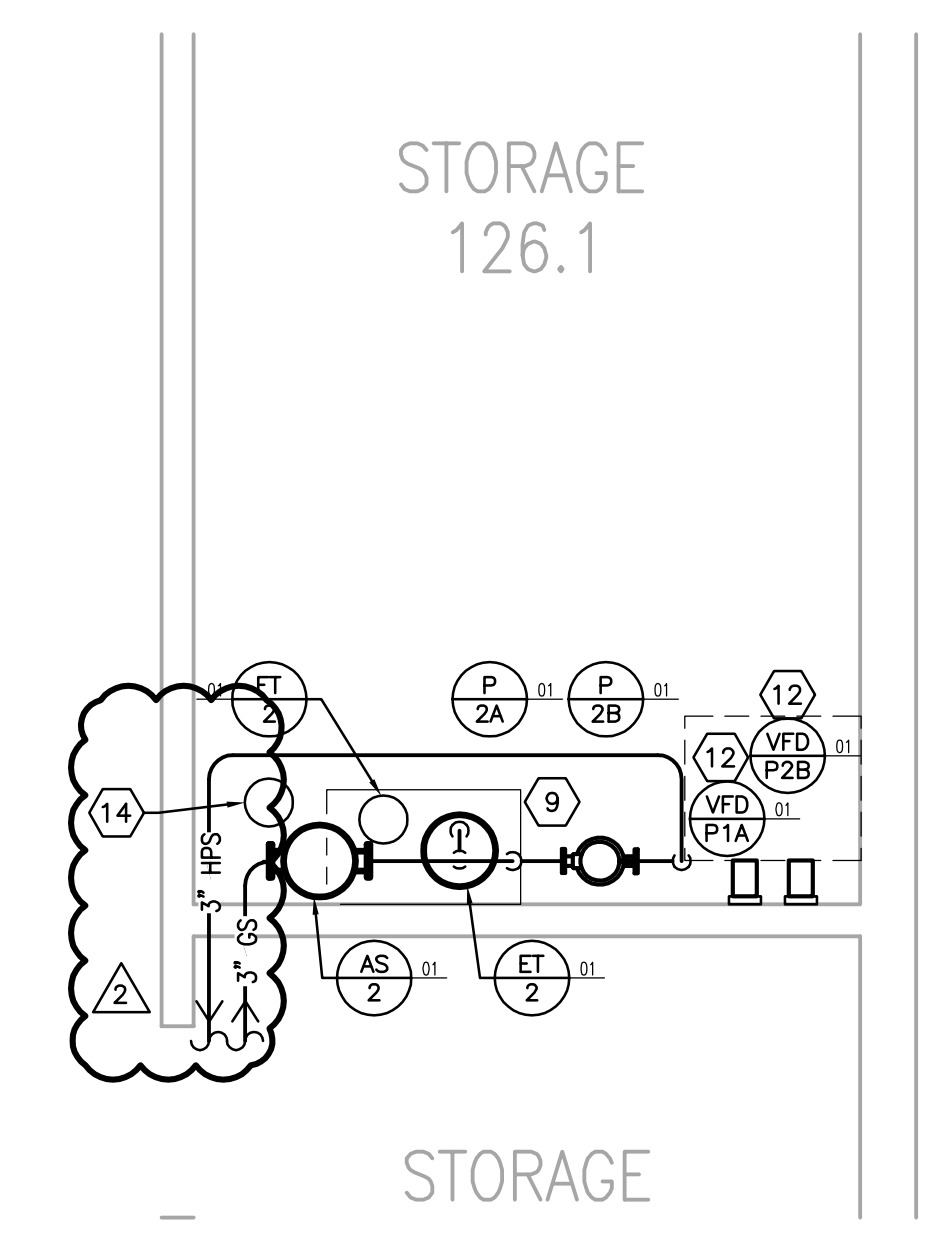


ENLARGED GYM 126 PLATFORM - MECHANICAL DEMOLITION
SCALE: 1/4" = 1'-0"
2
M1-4.0

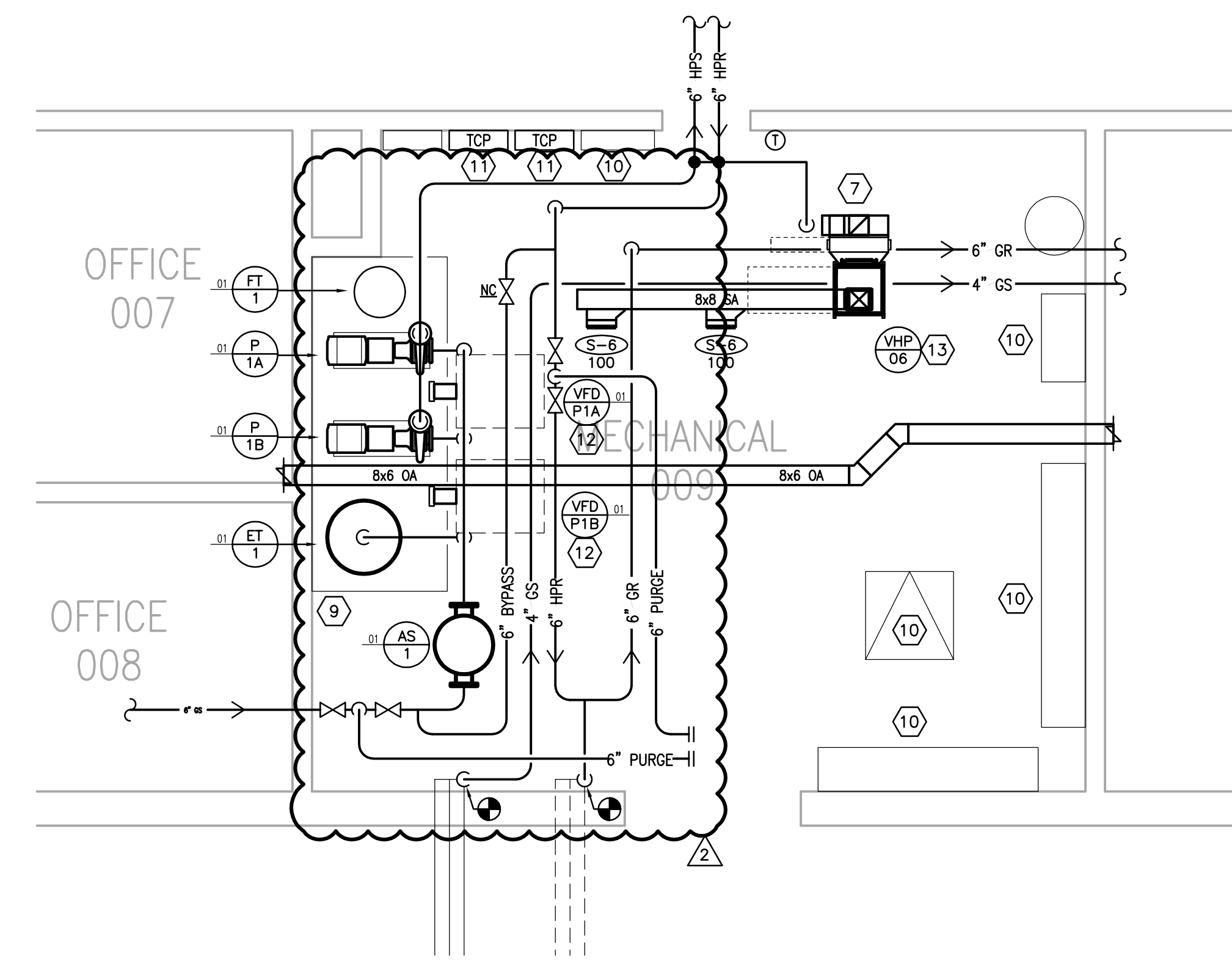


ENLARGED MECHANICAL ROOM 009 - MECHANICAL DEMOLITION
SCALE: 1/4" = 1'-0"
1
M1-4.0

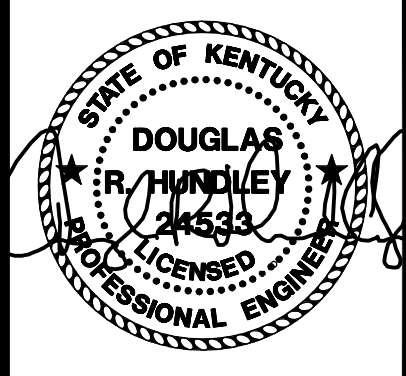
- ENLARGED MECHANICAL ROOMS - GENERAL NOTES:
- PATCH ALL WALL/ROOF/FLOOR PENETRATIONS WHERE EXISTING MEP EQUIPMENT/PIPING/DUCTWORK/ETC IS REMOVED.
 - REMOVE ALL CONCRETE PADS/SUPPORTS ASSOCIATED WITH MEP EQUIPMENT REMOVAL COMPLETELY; REMOVE ALL ABANDONED PADS/SUPPORTS COMPLETELY; PATCH AND SMOOTH FLOOR AS REQUIRED.
- ENLARGED MECHANICAL ROOMS:
- EXISTING PUMPS TO BE COMPLETELY REMOVED INCLUDING ALL EXISTING MECHANICAL, ELECTRICAL, AND CONTROLS CONNECTIONS. CONCRETE PAD SHALL BE REMOVED IF APPLICABLE; PATCH AND SMOOTH FLOOR AS REQUIRED.
 - EXISTING PIPING AND ALL ASSOCIATED VALVES, HANGERS, AND SUPPORTS TO BE COMPLETELY REMOVED. PATCH WALLS/SLAB/CEILING AT PIPING OPENINGS (TYPICAL).
 - EXISTING AIR SEPARATOR TO BE COMPLETELY REMOVED INCLUDING ALL ACCESSORIES/SUPPORTS.
 - EXISTING EXPANSION TANK TO BE COMPLETELY REMOVED INCLUDING ALL ACCESSORIES. CONCRETE PAD SHALL BE REMOVED.
 - EXISTING HEAT PUMP TO BE REMOVED COMPLETELY, INCLUDING ALL ASSOCIATED DUCTWORK, PIPING, CONDENSATE DRAIN AND PUMP (IF APPLICABLE), ELECTRICAL AND CONTROLS CONNECTIONS. PATCH WALL/FLOOR AS REQUIRED FOR COMPLETE EQUIPMENT REMOVAL.
 - EXISTING SUPPLY/RETURN/EXHAUST/OUTDOOR AIR DUCTWORK, GRILLES, AND RISER INDICATED TO BE REMOVED COMPLETELY; REMOVE ALL ASSOCIATED HANGERS/SUPPORTS/ACCESSORIES. PATCH WALLS/SLAB/CEILING AT DUCT OPENINGS (TYPICAL).
 - ROUTE 8"X8" RETURN AIR DUCT UP AND TERMINATE WITH 1/2" MESH SCREEN.
 - EXISTING FILL STATION TO BE REMOVED COMPLETELY; REWORK DOMESTIC WATER CONNECTIONS AS REQUIRED FOR NEW FILL STATION LOCATIONS. PROVIDE ALL NECESSARY VALVES AND ACCESSORIES AS REQUIRED. REFER TO NEW WORK PLANS FOR ADDITIONAL INFORMATION.
 - PROVIDE 4" THICK CONCRETE PAD UNDER MECHANICAL EQUIPMENT. PAD SHALL BE 6" LARGER THAN THE MECHANICAL EQUIPMENT FOOTPRINT IN ALL DIRECTIONS UNLESS SHOWN LARGER ON THE FLOOR PLAN.
 - ELECTRICAL PANEL OR EQUIPMENT. DO NOT ROUTE DUCTWORK OR PIPING ABOVE THE PANELS.
 - NEW CONTROL PANEL FOR DDC SYSTEM. COORDINATE DATA AND POWER CONNECTION WITH THE ELECTRICAL CONTRACTOR.
 - PROVIDE A UNI-STRUT STAND FOR THE VFD. COORDINATE INSTALLATION WITH THE ELECTRICAL CONTRACTOR. PROVIDE VERTICAL UNI-STRUT ON WALL MOUNTED VFD'S.
 - SPILL CONDENSATE TO FLOOR DRAIN.
 - 5 GALLON POT FEEDER. REFER TO PIPING SCHEMATIC ON THIS SHEET FOR ADDITIONAL INFORMATION.



ENLARGED STORAGE 126.1 - MECHANICAL
SCALE: 1/4" = 1'-0"
4
M1-4.0

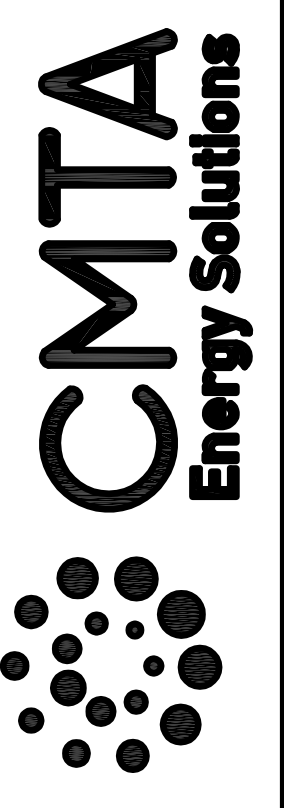


ENLARGED MECHANICAL ROOM 009 - MECHANICAL
SCALE: 1/4" = 1'-0"
3
M1-4.0



BID SET

9519 Civic Way, Suite 100
Prospect, KY 40059
T: 502 4094062, F: 502 9191521
M: brangers@cmta.com



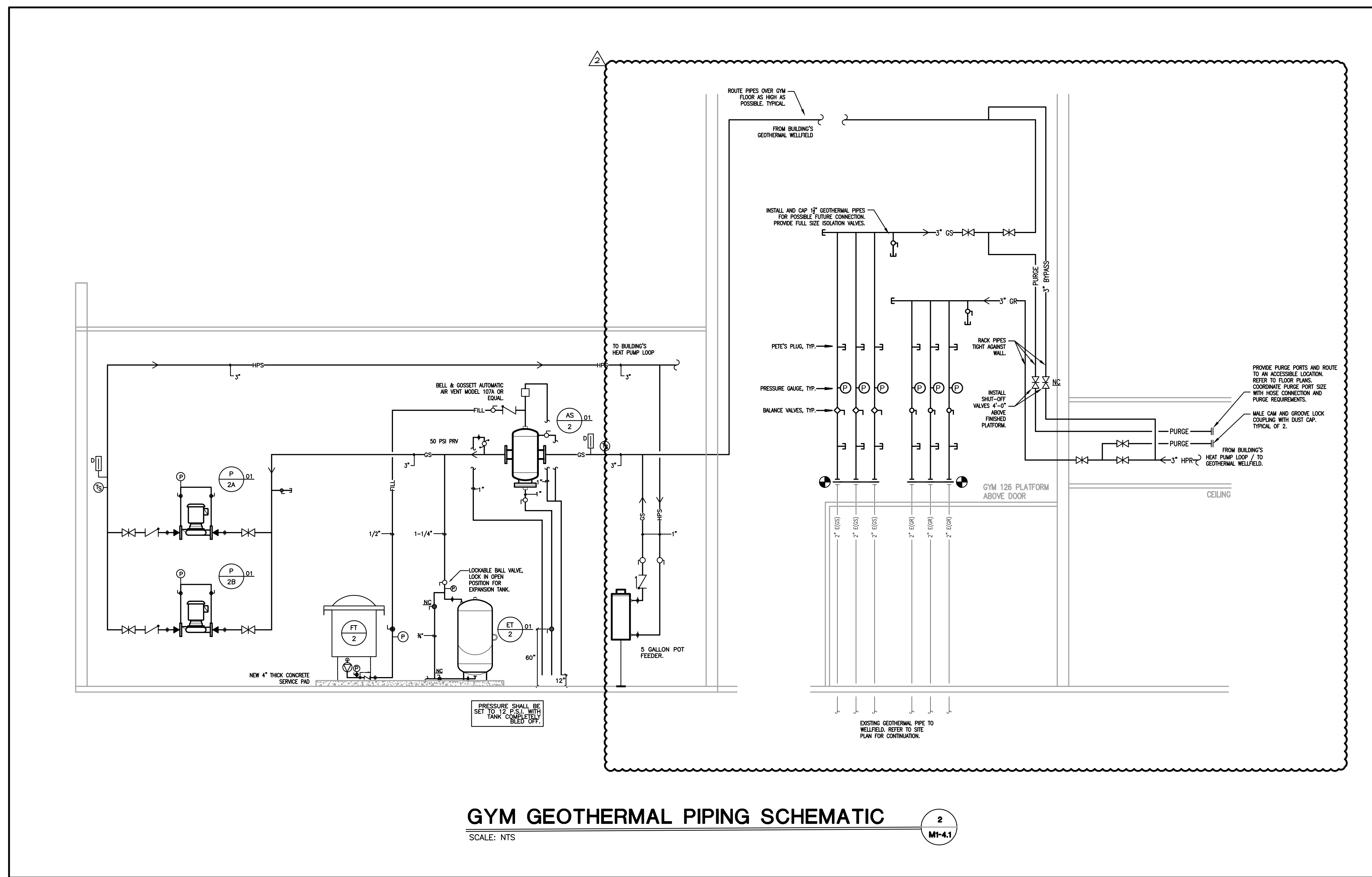
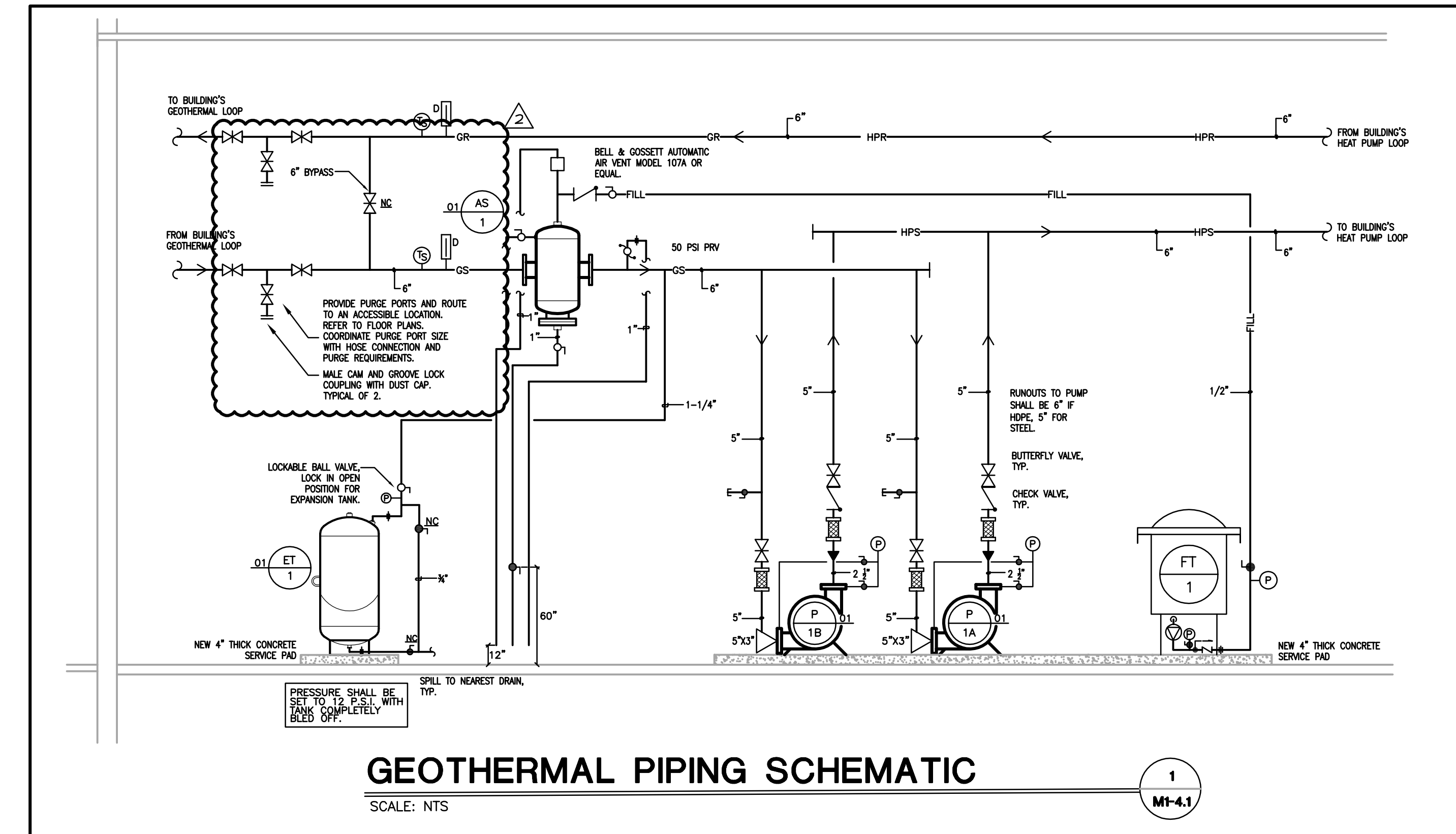
Pulaski County Schools
GUARANTEED ENERGY SAVINGS CONTRACT
EUBANK ELEMENTARY SCHOOL
Eubank, KY
PIPING SCHEMATICS

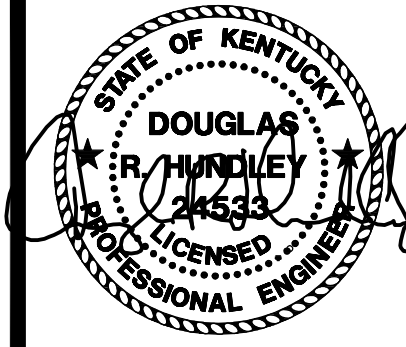
REVISIONS
▲ ADDENDUM #1 - 3/18/22
▲ ADDENDUM #2 - 3/25/22

DATE: 03.11.2022
DRAWN: EM, LA, HC, NT
CHECKED: CG

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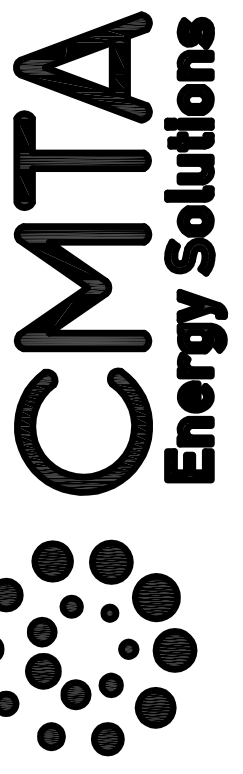
M1-
4.1





BID SET

9519 Civic Way, Suite 100
Prospect, KY 40059
T: 502 409-4067, F: 502 919-1571
M: 502 409-4067, C: 502 919-1571
M.Brangser@CMTA.COM



Pulaski County Schools
GUARANTEED ENERGY SAVINGS CONTRACT
OAK HILL ELEMENTARY SCHOOL
Somerset, KY

ENLARGED MECHANICAL PLANS

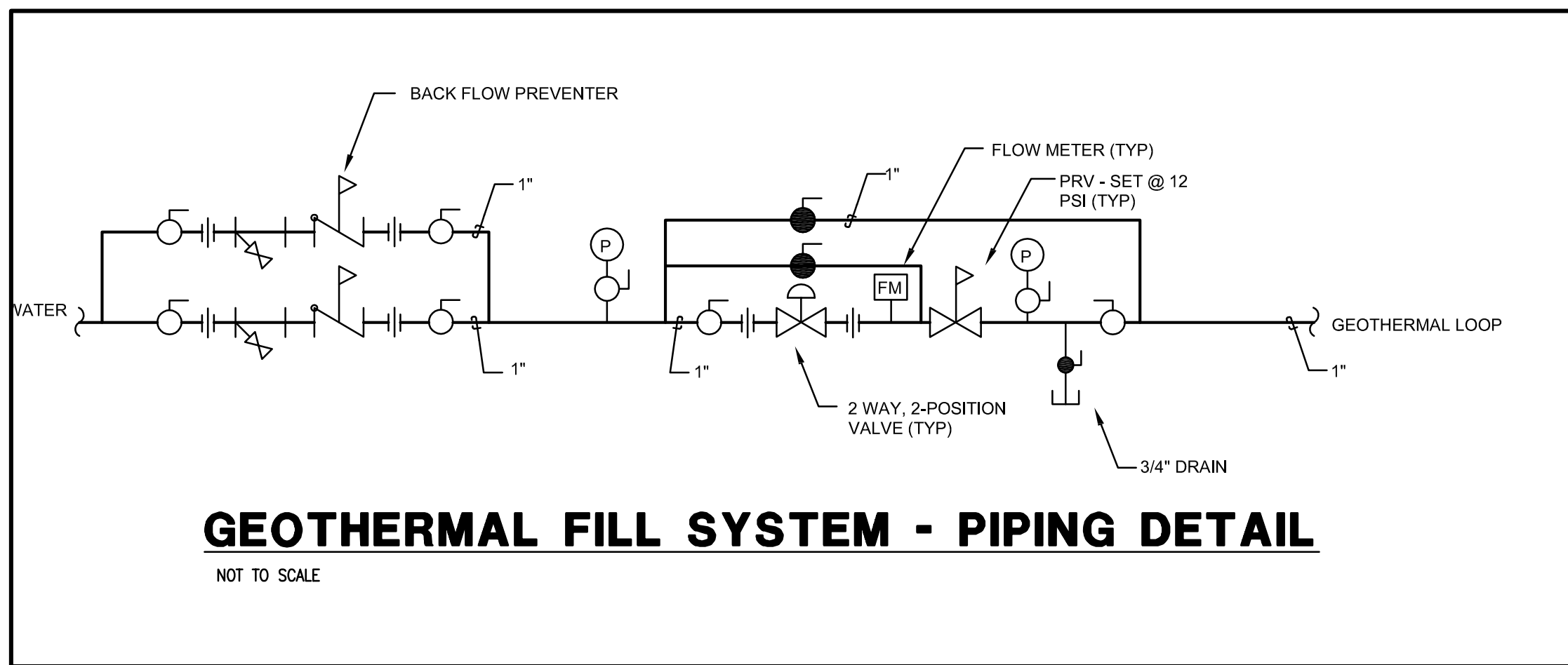
REVISIONS	
ADDENDUM #1 - 3/18/22	
ADDENDUM #2 - 3/25/22	

DATE: 03.11.2022
DRAWN: BM, LA, HC, NT
CHECKED: CG

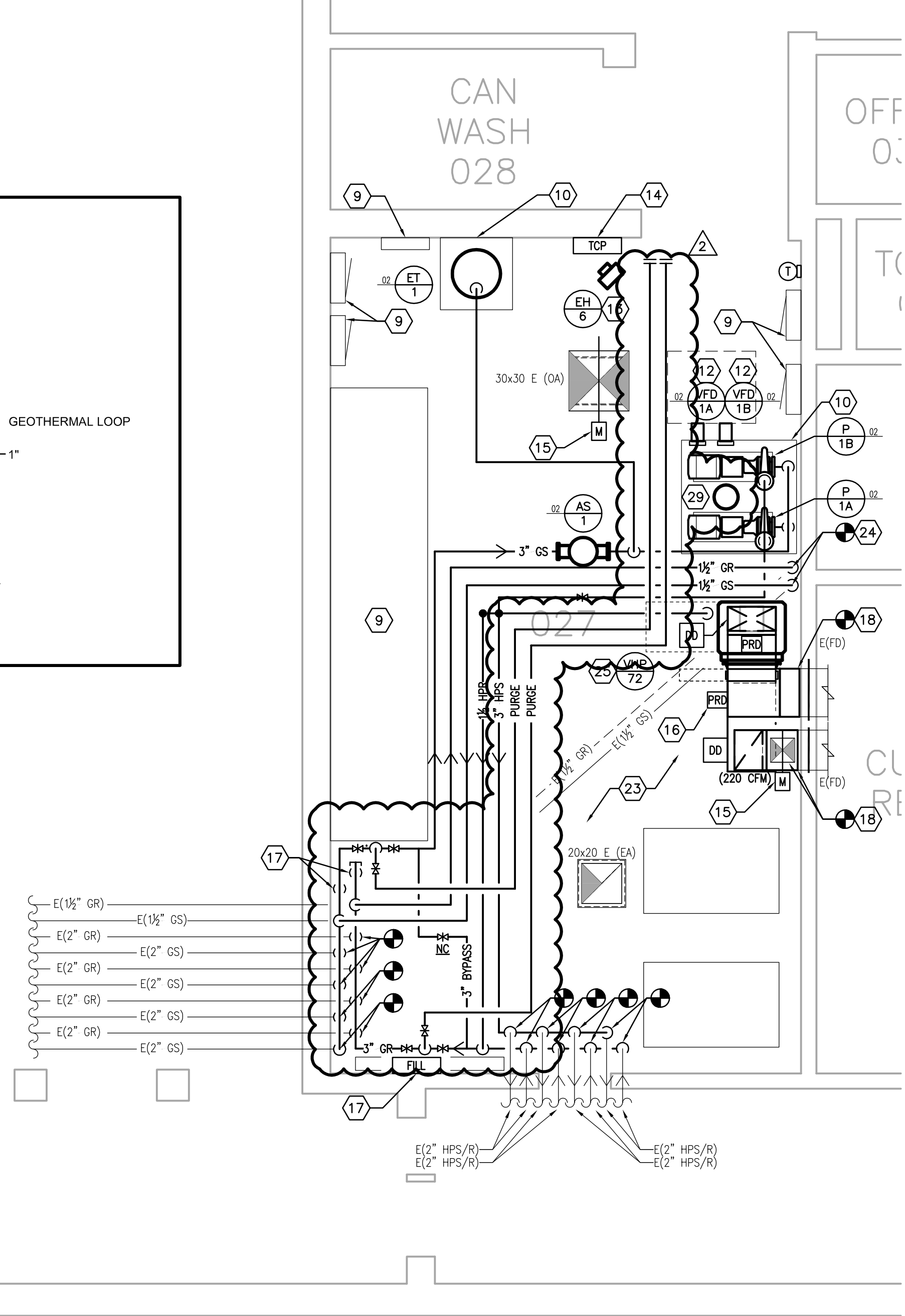
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M2-5.0

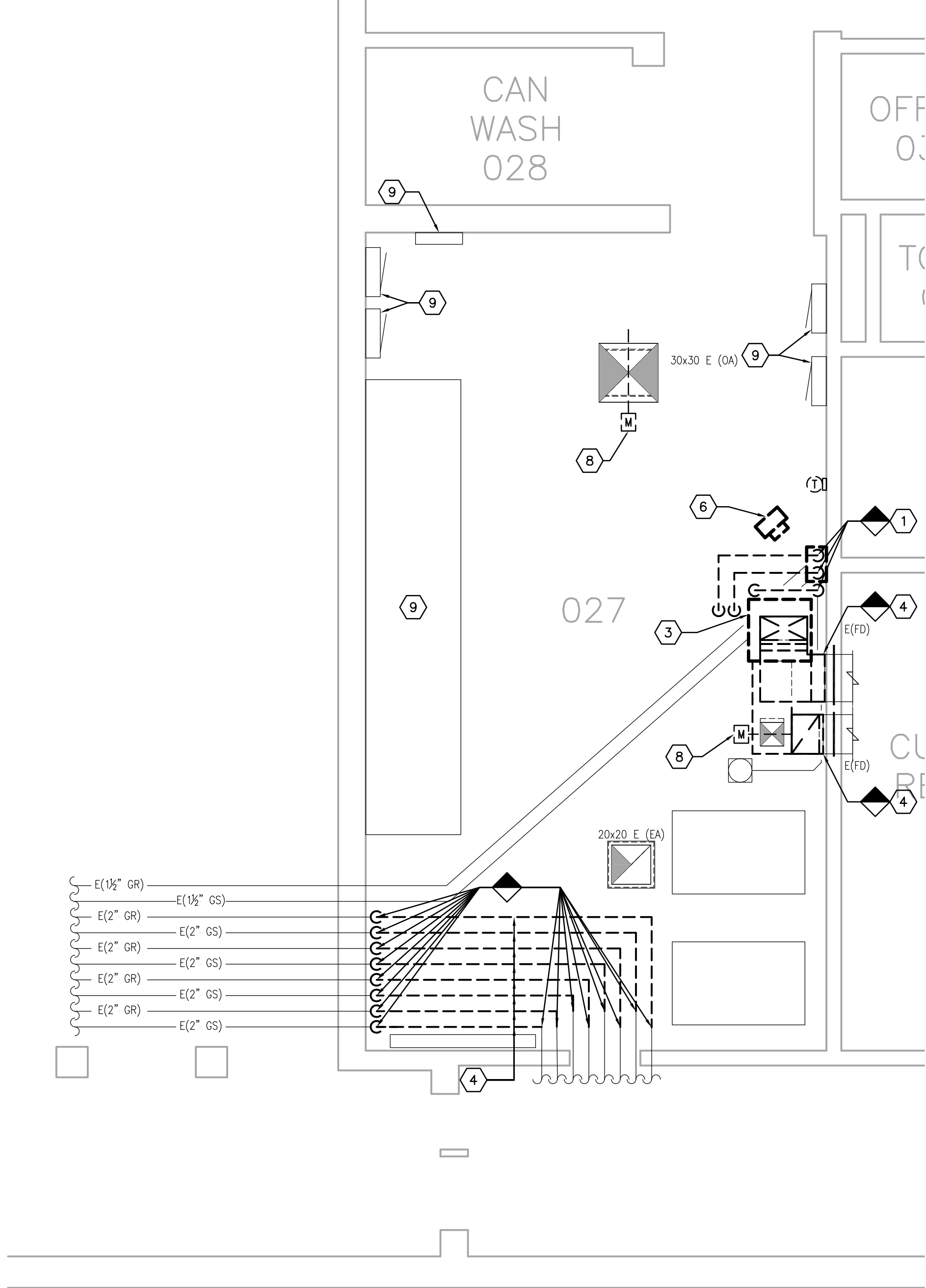
- ENLARGED MECHANICAL ROOMS - GENERAL NOTES:
- PATCH ALL WALL/ROOF/FLOOR PENETRATIONS WHERE EXISTING MEP EQUIPMENT/PIPING/DUCTWORK/ETC IS REMOVED.
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 - EXISTING LOUVER TO REMAIN. BLANK OFF THE INSIDE OF THE EXISTING LOUVER WITH SHEET METAL AND INSULATE WITH 2" RIGID INSULATION. COORDINATE LOUVER INFILL AND FINISH FINISHES WITH GENERAL CONTRACTOR.
 - REMOVE EXISTING ELECTRIC HEATER INCLUDING ALL ELECTRICAL AND CONTROLS CONNECTIONS.
 - EXISTING LOUVER TO BE REMOVED COMPLETELY. REFER TO NEW WORK FOR ADDITIONAL INFORMATION.
 - REMOVE EXISTING MOTORIZED DAMPER IN OUTSIDE DUCTWORK AND REFER TO NEW WORK FOR ADDITIONAL INFORMATION.
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 - PROVIDE A UNI-STRUT STAND FOR THE VFD. COORDINATE INSTALLATION WITH THE ELECTRICAL CONTRACTOR. PROVIDE VERTICAL UNI-STRUT ON WALL MOUNTED VFD'S.
 - MOUNT THE BOTTOM OF THE UNIT HEATER 9'-0" AFF.
 - NEW CONTROL PANEL FOR DDC SYSTEM. COORDINATE DATA AND POWER CONNECTION WITH THE ELECTRICAL CONTRACTOR.
 - MOTORIZED DAMPER. COORDINATE WITH TCC AND REFER TO CONTROL SPECIFICATIONS FOR ADDITIONAL INFORMATION.
 - INSTALL PRESSURE RELIEF DOOR IN AN ACCESSIBLE LOCATION. ENSURE PRESSURE RELIEF DOOR CAN FULLY OPEN. TYPICAL.
 - INSTALL AND CAP 1/2" GEOTHERMAL PIPES FOR POSSIBLE FUTURE CONNECTION. PROVIDE FULL SIZE ISOLATION VALVES AND REFER TO PIPING SCHEMATIC ON THIS SHEET FOR ADDITIONAL INFORMATION.
 - CONNECT NEW DUCTWORK TO EXISTING DUCTWORK AT WALL / FLOOR PENETRATION. PROVIDE TRANSITION AS REQUIRED.
 - INSTALL (3) PLENUMS THE FULL SIZE OF LOUVER AND WIDTH AS SPECIFIED. CONNECT DUCTWORK TO PLENUM WITH EXPANDED THROAT TAB. PLENUM DEPTH SHALL BE 36". EXTEND PLENUM AS REQUIRED TO MAKE DUCTWORK CONNECTION. ENLARGE OPENING FOR NEW LOUVER. COORDINATE WITH GC.
 - REFER TO SHEET SERIES M2-3.1X FOR DUCTWORK CONTINUATION.
 - REFER TO SHEET M2-3.2 FOR DUCTWORK CONTINUATION.
 - PROVIDE ACCESS DOOR IN DUCTWORK AS RECOMMENDED BY AFD MANUFACTURER. INSTALL AFD PER MANUFACTURER'S INSTRUCTION.
 - REFER TO PIPING SCHEMATIC ON THIS SHEET FOR ADDITIONAL INFORMATION.
 - CONNECT TO PIPING AT FLOOR PENETRATION. CONTRACTOR TO VERIFY FLOW DIRECTION AND CONNECTION SIZE.
 - SPILL HEAT PUMP CONDENSATE TO EXISTING CONDENSATE PIPE STUBBED THROUGH MECHANICAL ROOM FLOOR. FIELD VERIFY LOCATION AND RELOCATE AS REQUIRED TO ACCOMMODATE NEW HEAT PUMP LAYOUT.
 - CONNECT TO PIPING AT FLOOR PENETRATION. CONTRACTOR TO VERIFY FLOW DIRECTION AND CONNECTION SIZE. PROVIDE SHUT-OFF VALVES AT POINT OF CONNECTION.
 - REMOVE EXISTING EXHAUST FAN INCLUDING ALL ELECTRICAL AND CONTROLS CONNECTIONS (DISCONNECTS/SWITCHES/ETC).
 - ROUTE PURGE PORTS DOWN AND TERMINATE 4'-0" ABOVE FIRST FLOOR SLAB. REFER TO PIPING SCHEMATIC FOR ADDITIONAL INFORMATION.
 - 5 GALLON POT FEEDER. REFER TO PIPING SCHEMATIC ON THIS SHEET FOR ADDITIONAL INFORMATION.



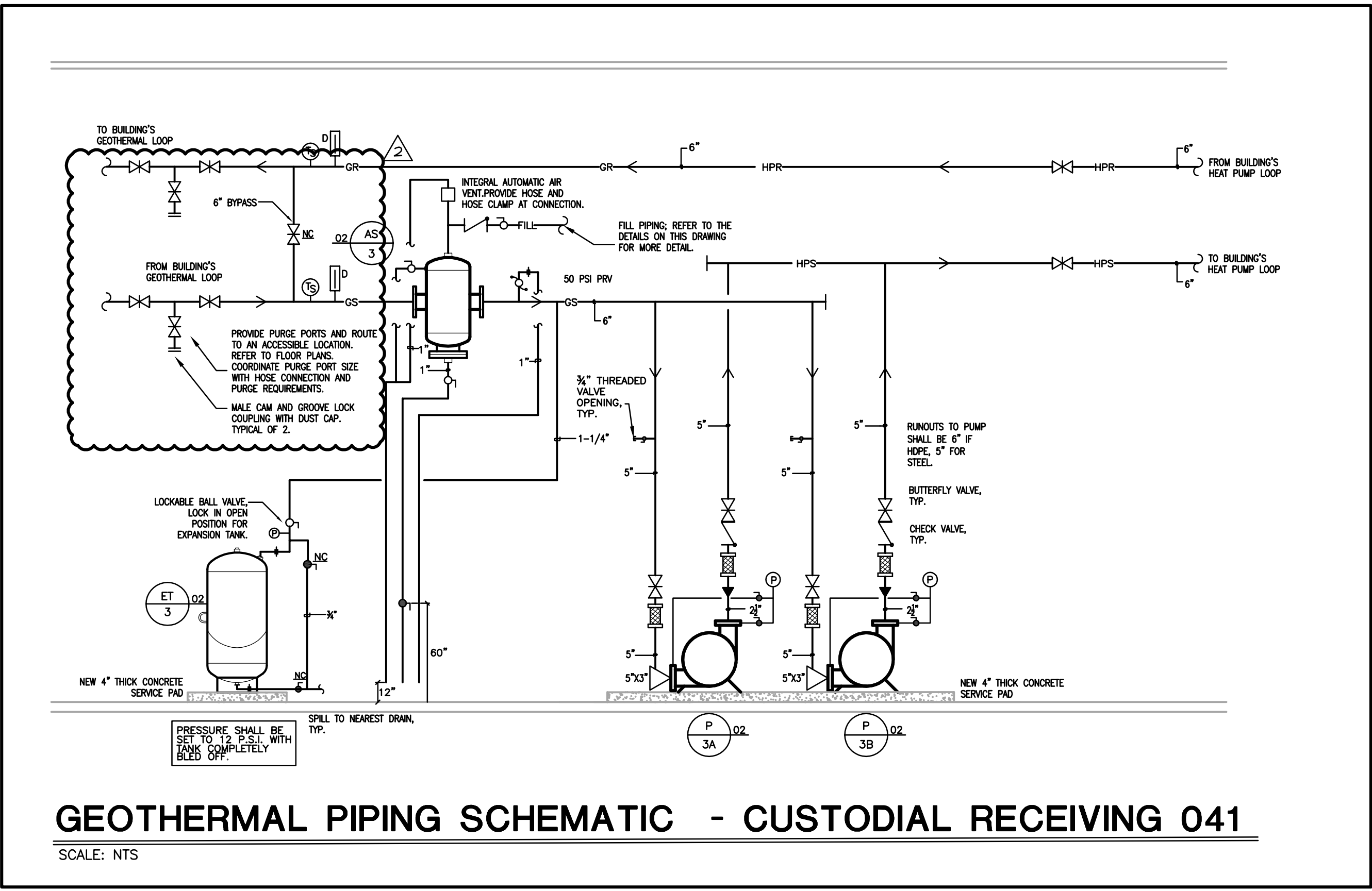
ENLARGED PUMP ROOM MECHANICAL NEW WORK
SCALE: 1/4" = 1'-0"
M2-5.0



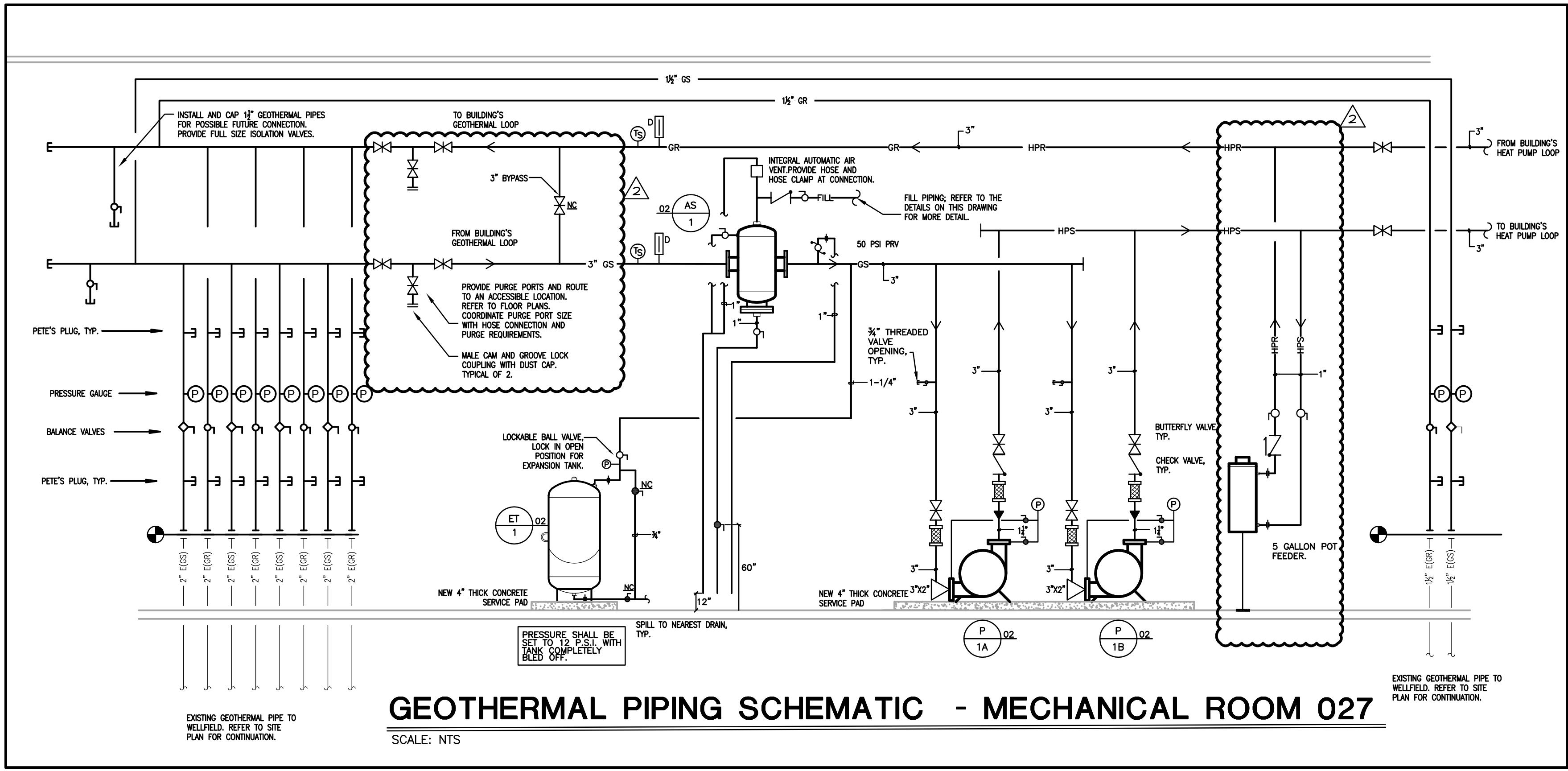
ENLARGED MECHANICAL ROOM 027 - MECHANICAL NEW WORK
SCALE: 1/4" = 1'-0"
M2-5.0



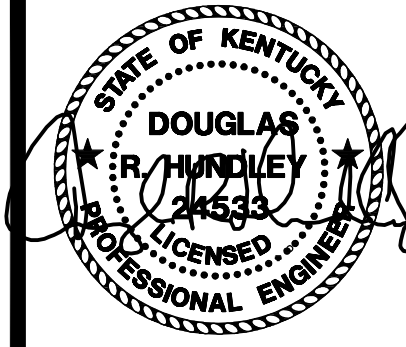
ENLARGED MECHANICAL ROOM 027 - MECHANICAL DEMOLITION
SCALE: 1/4" = 1'-0"
M2-5.0



GEOTHERMAL PIPING SCHEMATIC - CUSTODIAL RECEIVING 041
SCALE: NTS

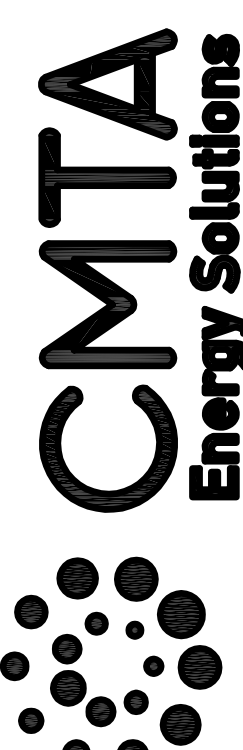


GEOTHERMAL PIPING SCHEMATIC - MECHANICAL ROOM 027
SCALE: NTS



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9519 Civic Way, Suite 100
Prospect, KY 40059
T: 502 409-4067, F: 502 919-1571
M.Brangers@CMTA.COM



Pulaski County Schools
GUARANTEED ENERGY SAVINGS CONTRACT
OAK HILL ELEMENTARY SCHOOL
Somerset, KY

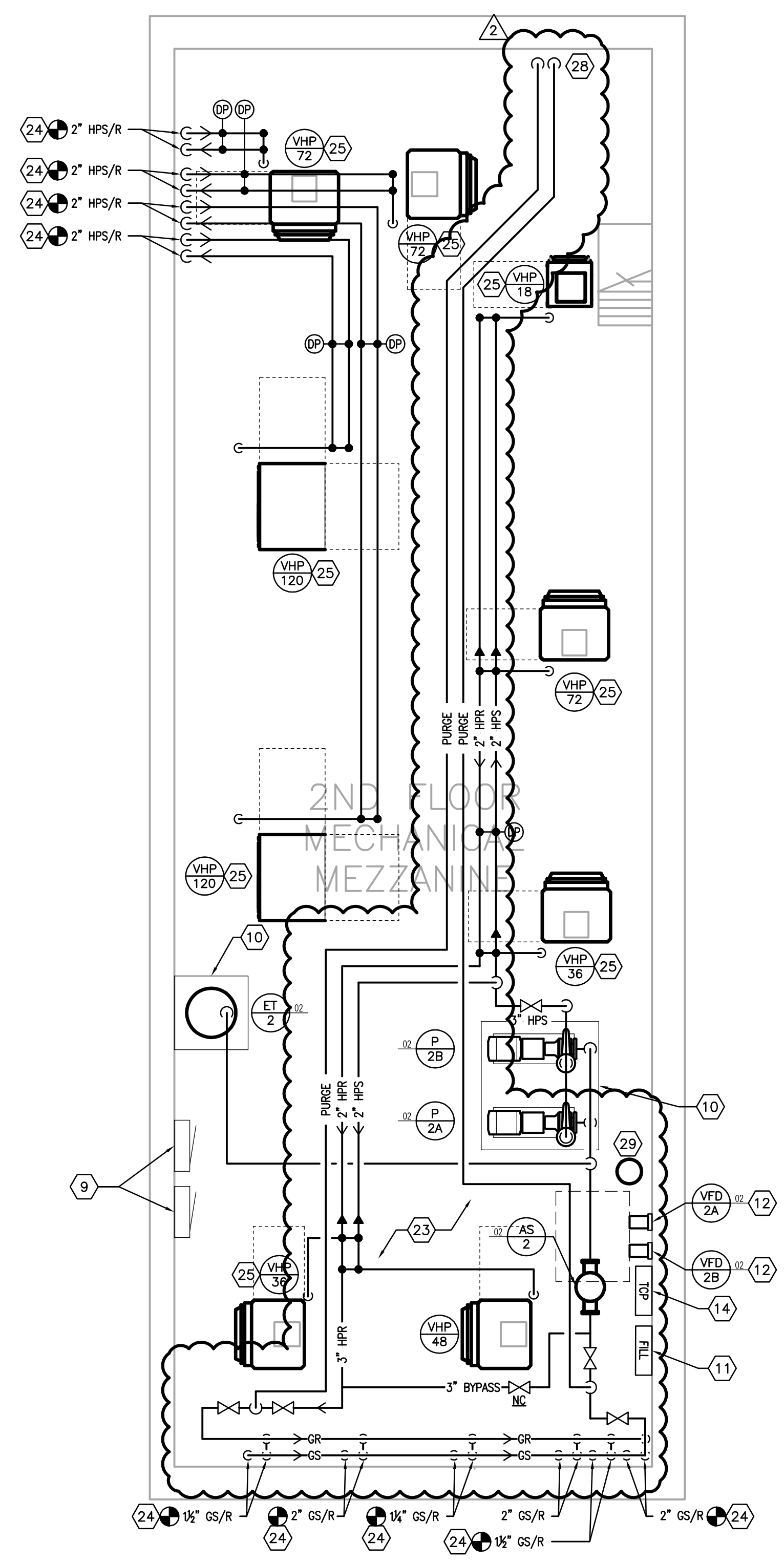
ENLARGED MECHANICAL PLANS

REVISIONS
ADDENDUM #1 - 3/18/22
ADDENDUM #2 - 3/25/22

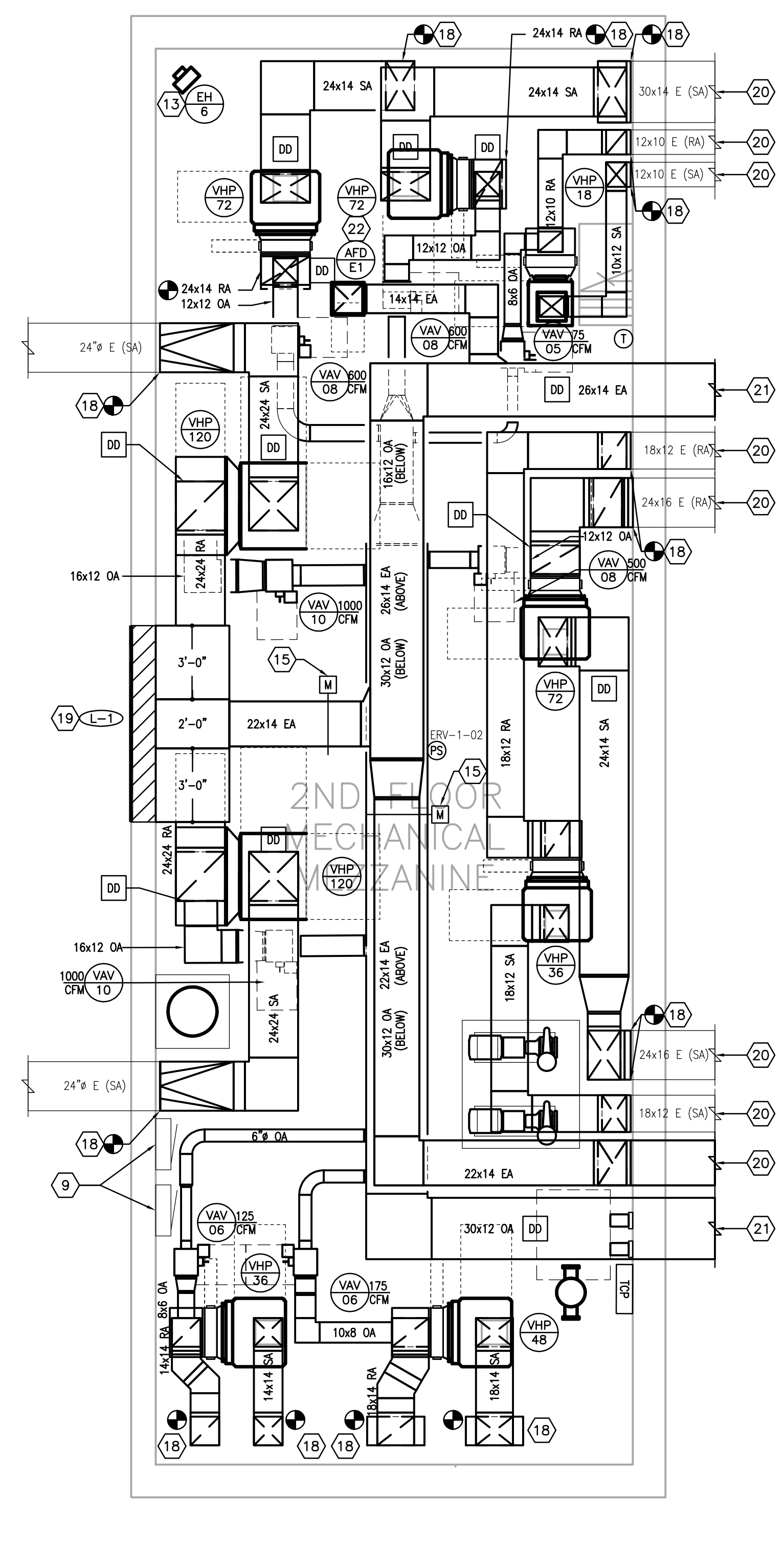
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DRAWN: BM, LA, HC, NT
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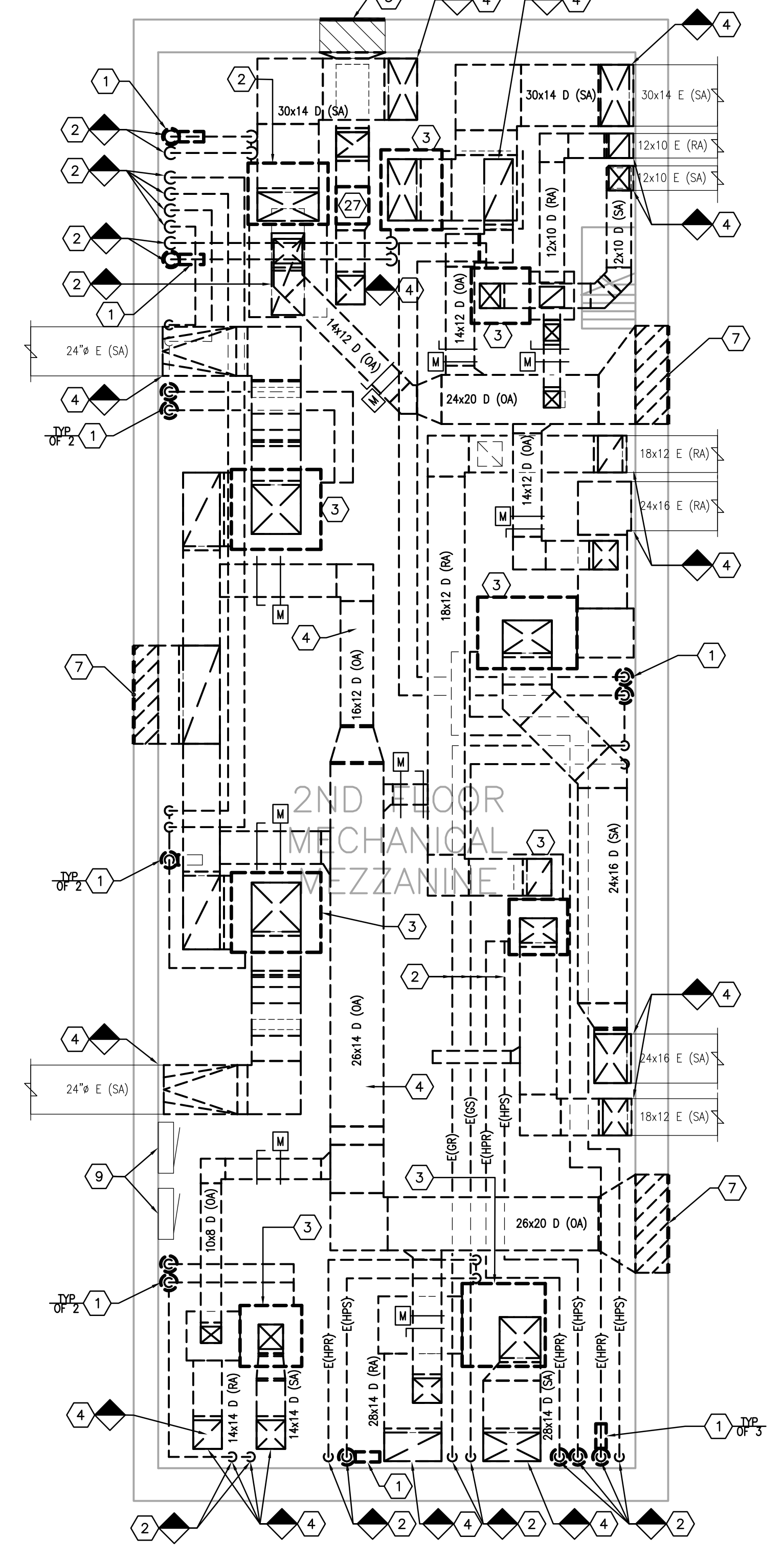
M2-5.1



ENLARGED MECHANICAL MEZZANINE
HYDRONICS NEW WORK
SCALE: 1/4" = 1'-0"
3
M2-5.1

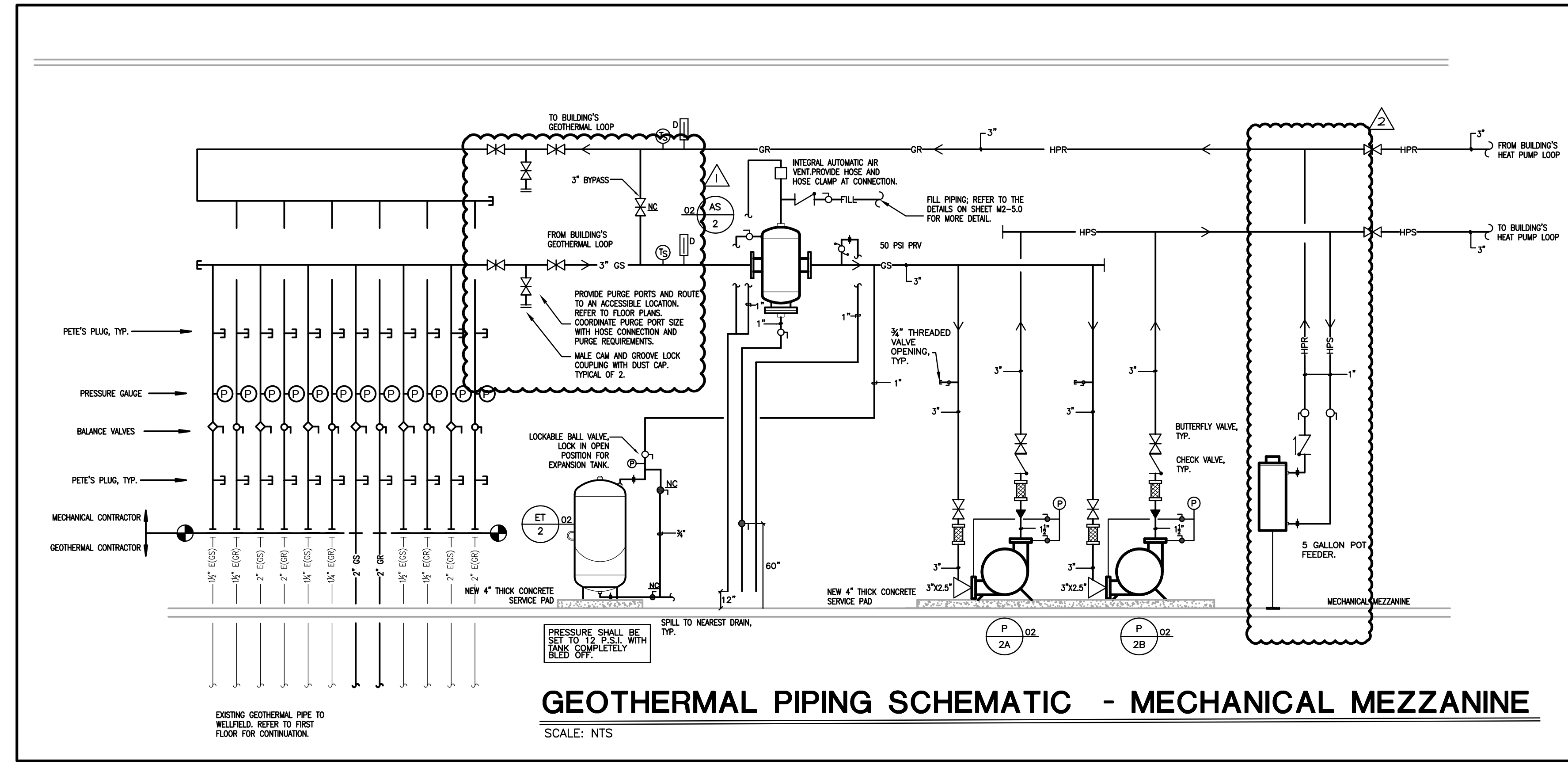


ENLARGED MECHANICAL MEZZANINE
AIR DISTRIBUTION NEW WORK
SCALE: 1/4" = 1'-0"
2
M2-5.1

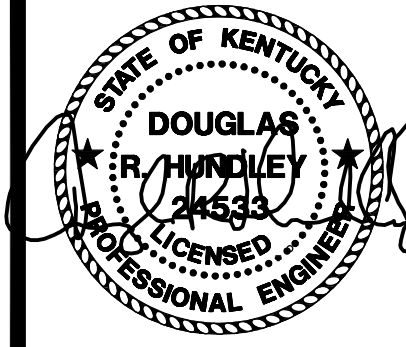


ENLARGED MECHANICAL MEZZANINE
MECHANICAL DEMOLITION
SCALE: 1/4" = 1'-0"
1
M2-5.1

- ENLARGED MECHANICAL ROOMS - GENERAL NOTES:
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 - EXISTING PIPING AND ALL ASSOCIATED VALVES, HANGERS, AND SUPPORTS TO BE COMPLETELY REMOVED TO POINT INDICATED ON THE DRAWING. PATCH WALLS/SLAB/CEILING AT PIPING OPENINGS (TYPICAL). REFER TO NEW WORK FOR ADDITIONAL INFORMATION.
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 - EXISTING LOUVER TO REMAIN. BLANK OFF THE INSIDE OF THE EXISTING LOUVER WITH SHEET METAL AND INSULATE WITH 2" RIGID INSULATION. COORDINATE LOUVER INFILL AND FINN FINISHES WITH GENERAL CONTRACTOR.
 - REMOVE EXISTING ELECTRIC HEATER INCLUDING ALL ELECTRICAL AND CONTROLS CONNECTIONS.
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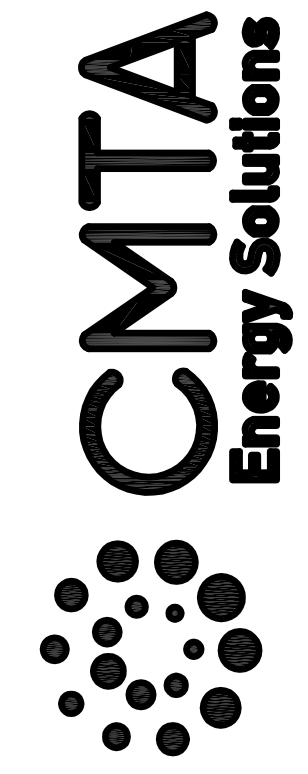


GEOTHERMAL PIPING SCHEMATIC - MECHANICAL MEZZANINE
SCALE: NTS



BID SET

9519 Civic Way, Suite 100
Prospect, KY 40059
T: 502 409-4062, F: 502 919-1521
M.Brangser@CMTA.COM



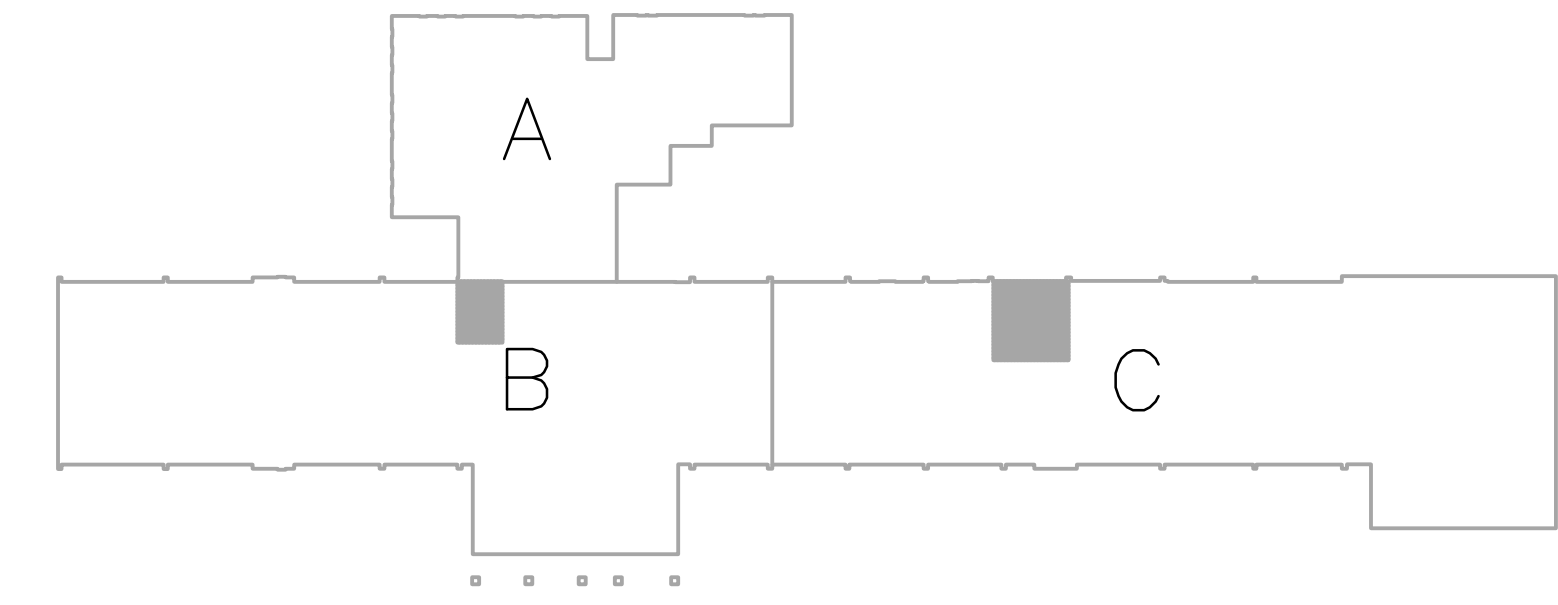
Pulaski County Schools
GUARANTEED ENERGY SAVINGS CONTRACT
Nancy Elementary School
NANCY, KY
ENLARGED MECHANICAL PLANS

REVISIONS
▲ ADDENDUM #1 - 3/18/22
▲ ADDENDUM #2 - 3/25/22

DATE: 03.11.2022
DRAWN: BM, LA, HC, NT
CHECKED: CG

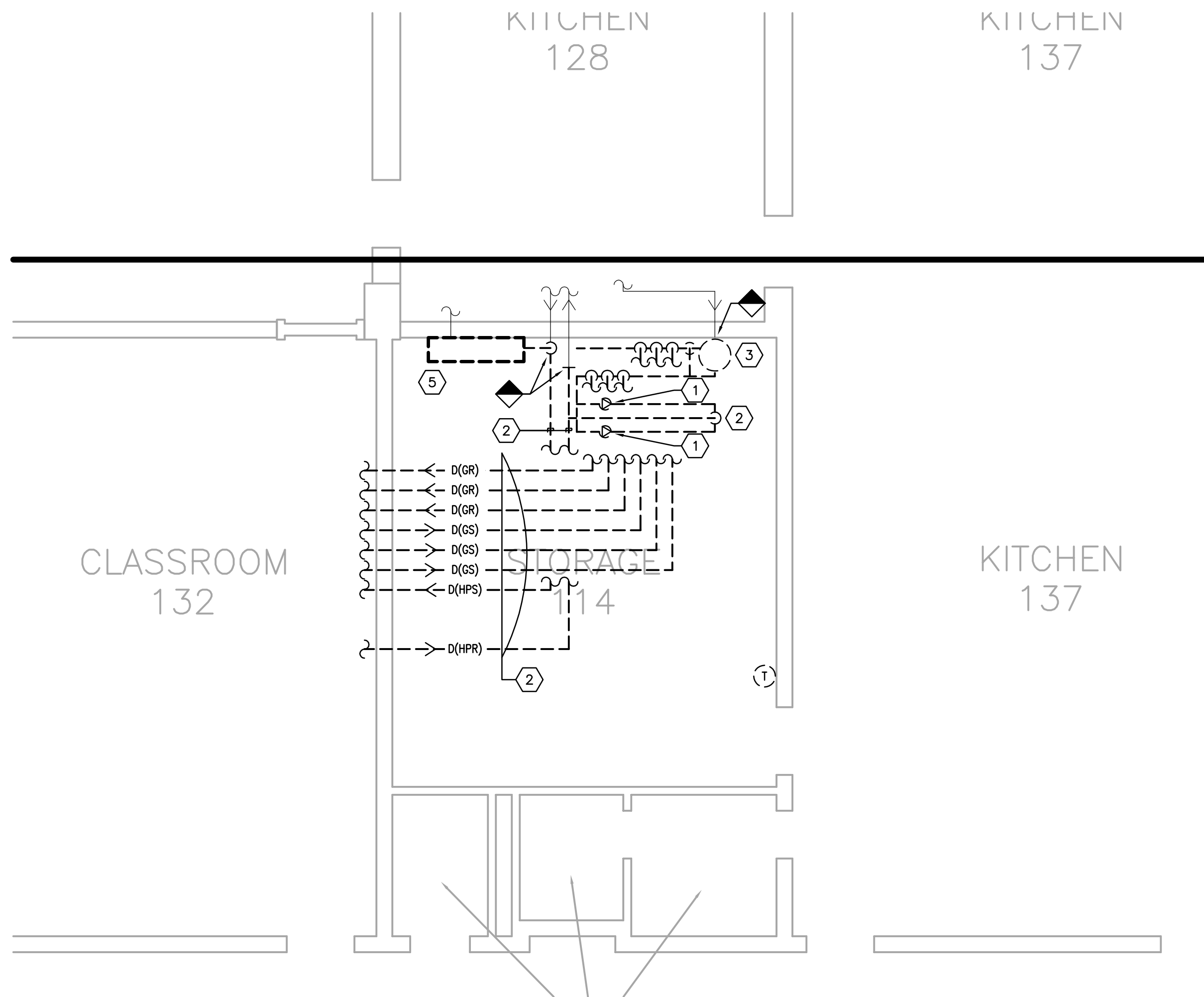
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M3-4.0



KEY PLAN

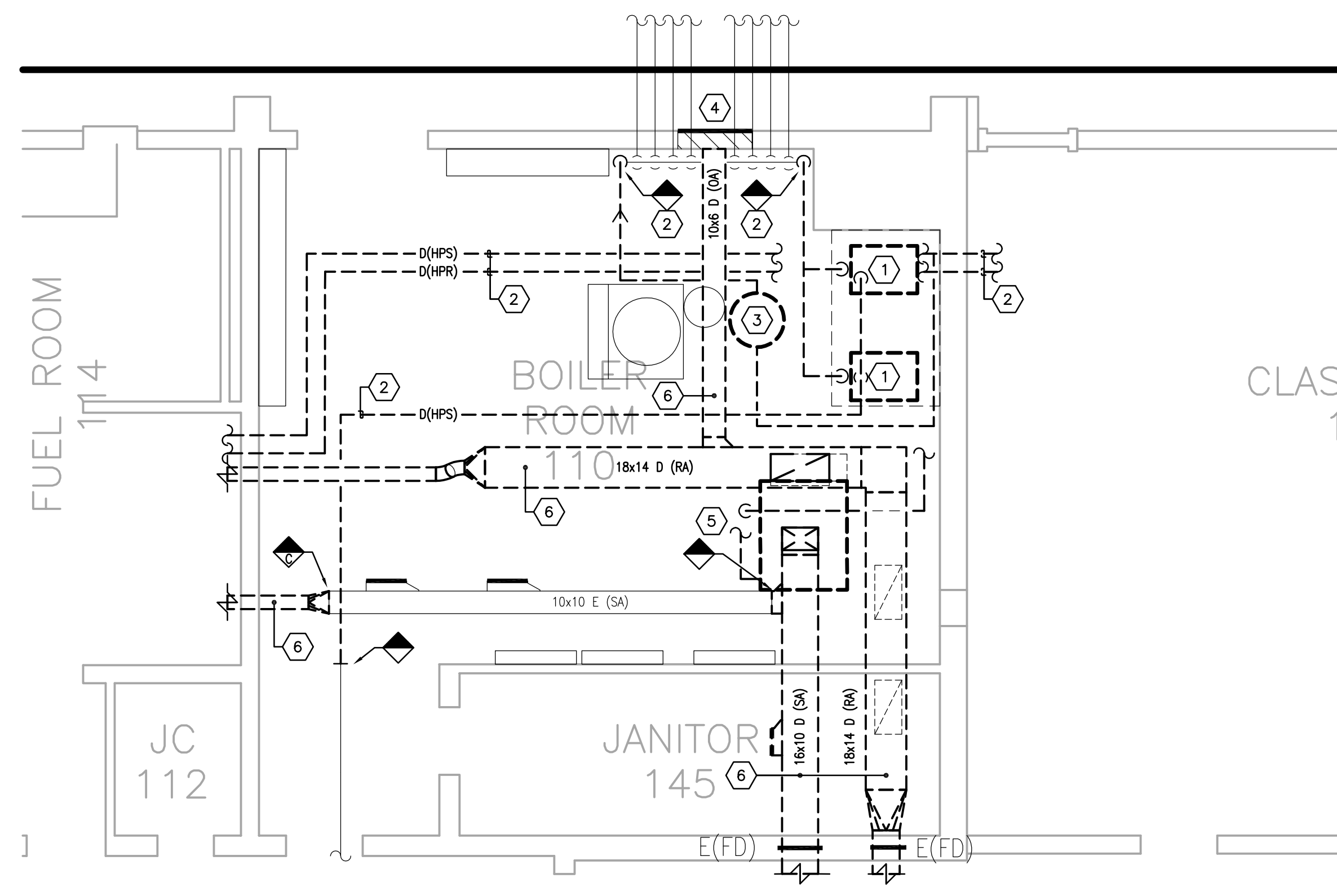
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 - PROVIDE A UNI-STRUT STAND FOR THE VFD. COORDINATE INSTALLATION WITH THE ELECTRICAL CONTRACTOR. PROVIDE VERTICAL UNI-STRUT ON WALL MOUNTED VFD'S.
 - ROUTE 8"X8" RETURN AIR DUCT UP AND TERMINATE WITH 1/2" MESH SCREEN.
 - ROUTE 1 1/2" CONDENSATE TIGHT TO WALL AND OUT EXTERIOR WALL.
 - ROUTE 8"X8" EXHAUST AIR DUCT UP THROUGH ROOF, TRANSITION TO INLET SIZE OF FAN AS REQUIRED. PROVIDE 1/2" MESH SCREEN ON INLET OF DUCT.
 - ELECTRICAL PANEL OR EQUIPMENT. DO NOT ROUTE DUCTWORK OR PIPING ABOVE THE PANELS.
 - NEW CONTROL PANEL FOR BDC SYSTEM. COORDINATE DATA AND POWER CONNECTION WITH THE ELECTRICAL CONTRACTOR.



ENLARGED STORAGE ROOM - MECHANICAL DEMOLITION

SCALE: 1/4" = 1'-0"

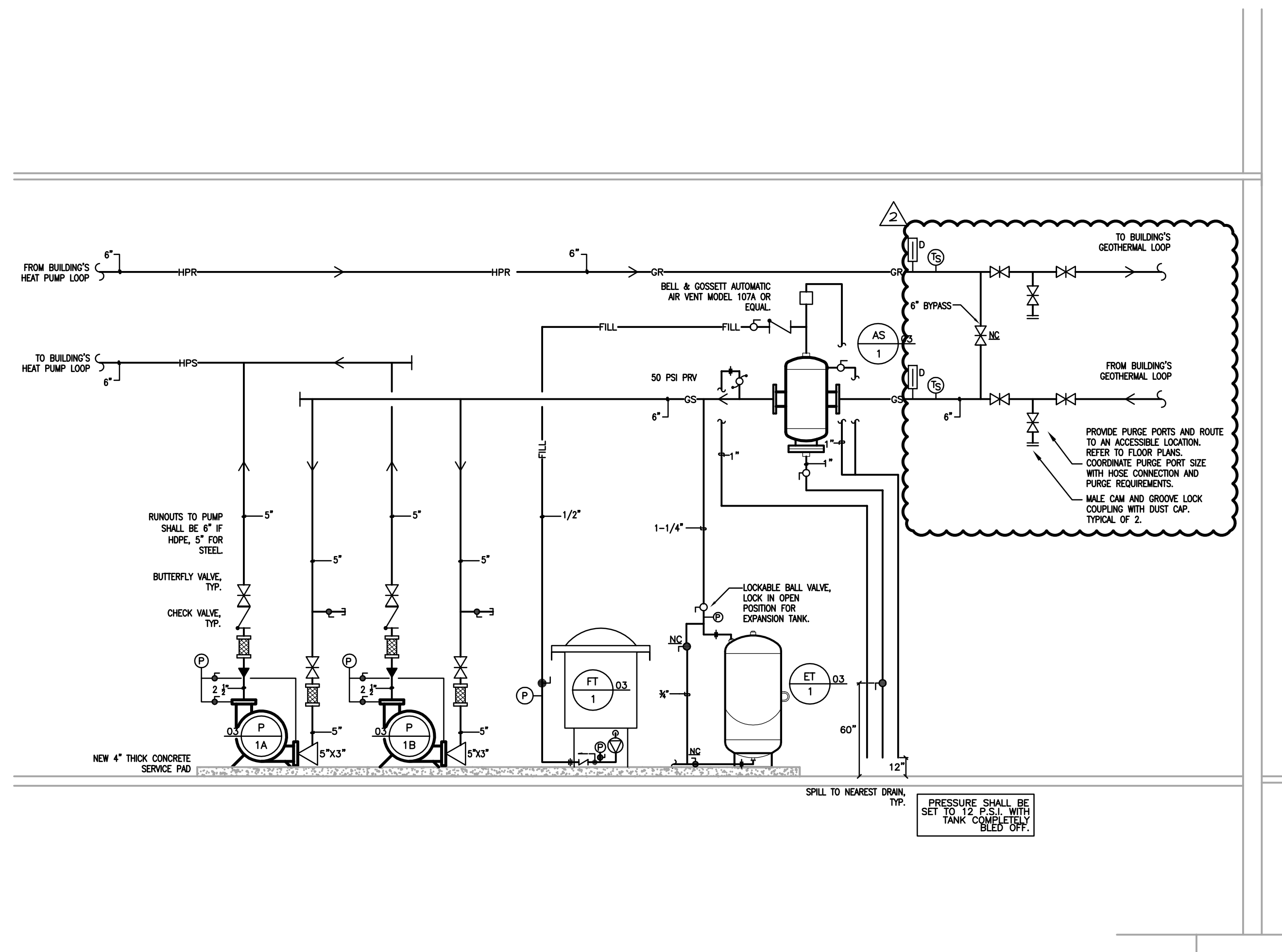
2 M3-4.0



ENLARGED BOILER ROOM - MECHANICAL DEMOLITION

SCALE: 1/4" = 1'-0"

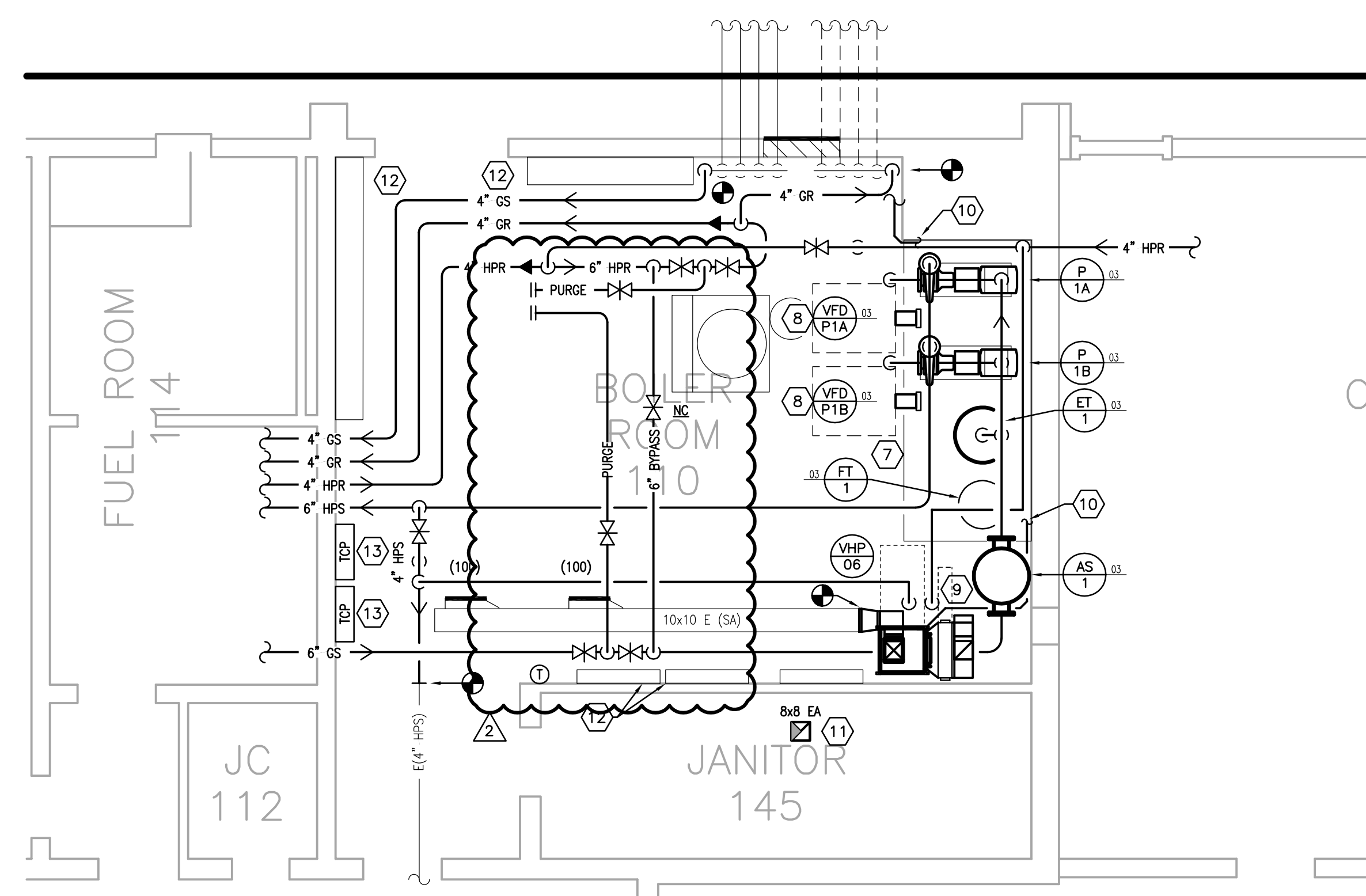
1 M3-4.0



GEOTHERMAL PIPING SCHEMATIC

SCALE: NTS

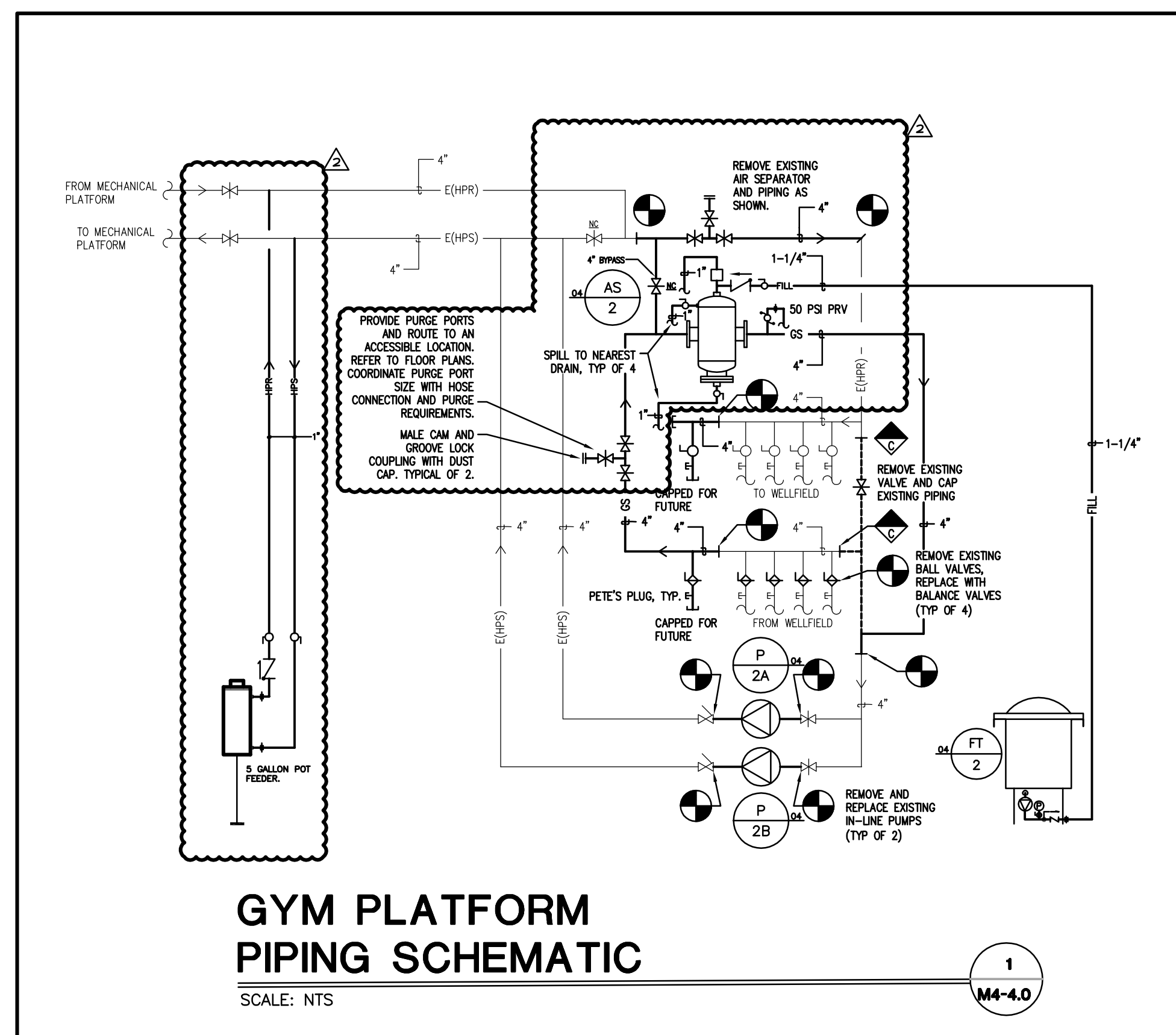
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ENLARGED BOILER ROOM - MECHANICAL

SCALE: 1/4" = 1'-0"

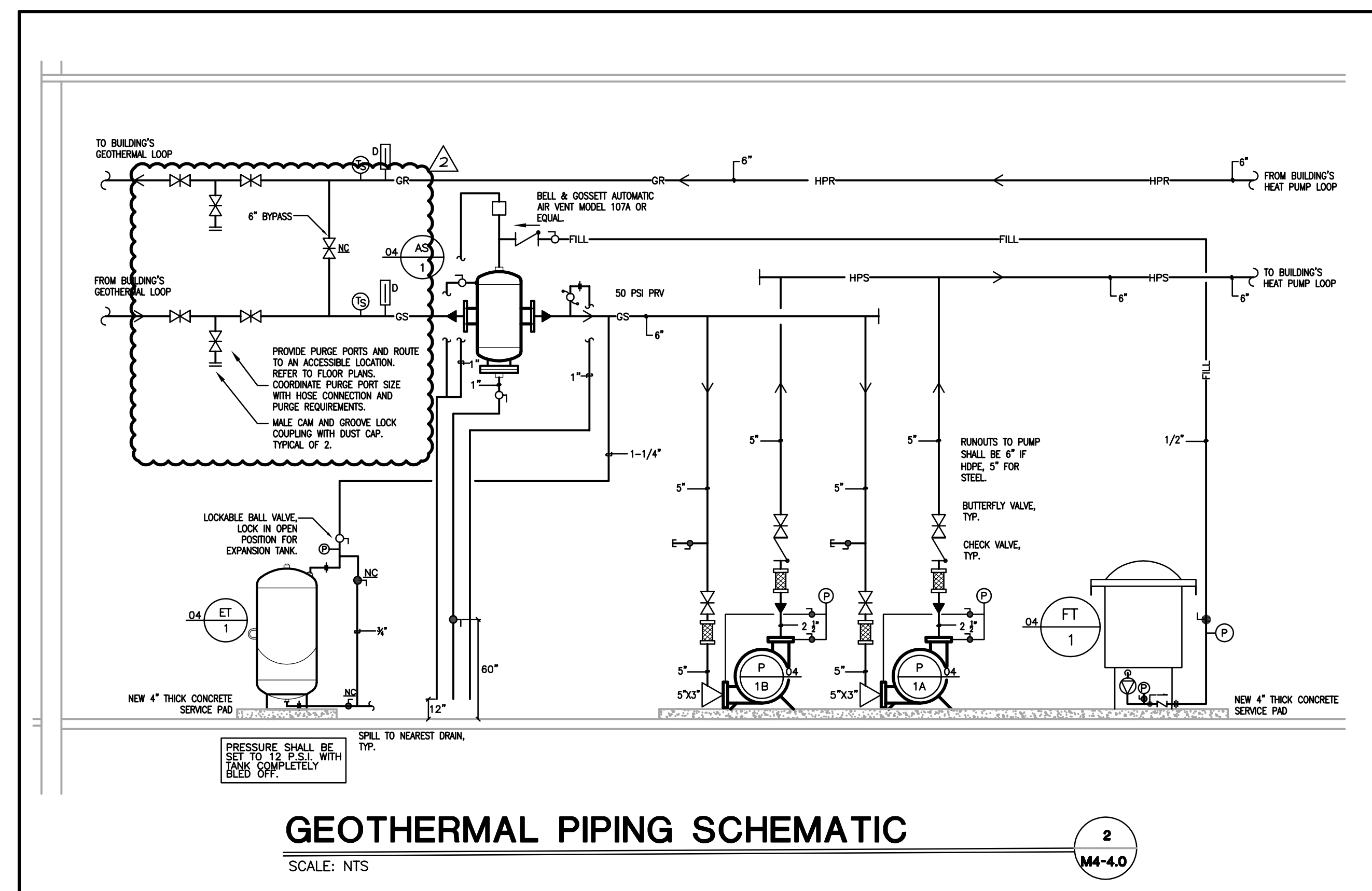
3 M3-4.0



GYM PLATFORM PIPING SCHEMATIC

SCALE: NTS

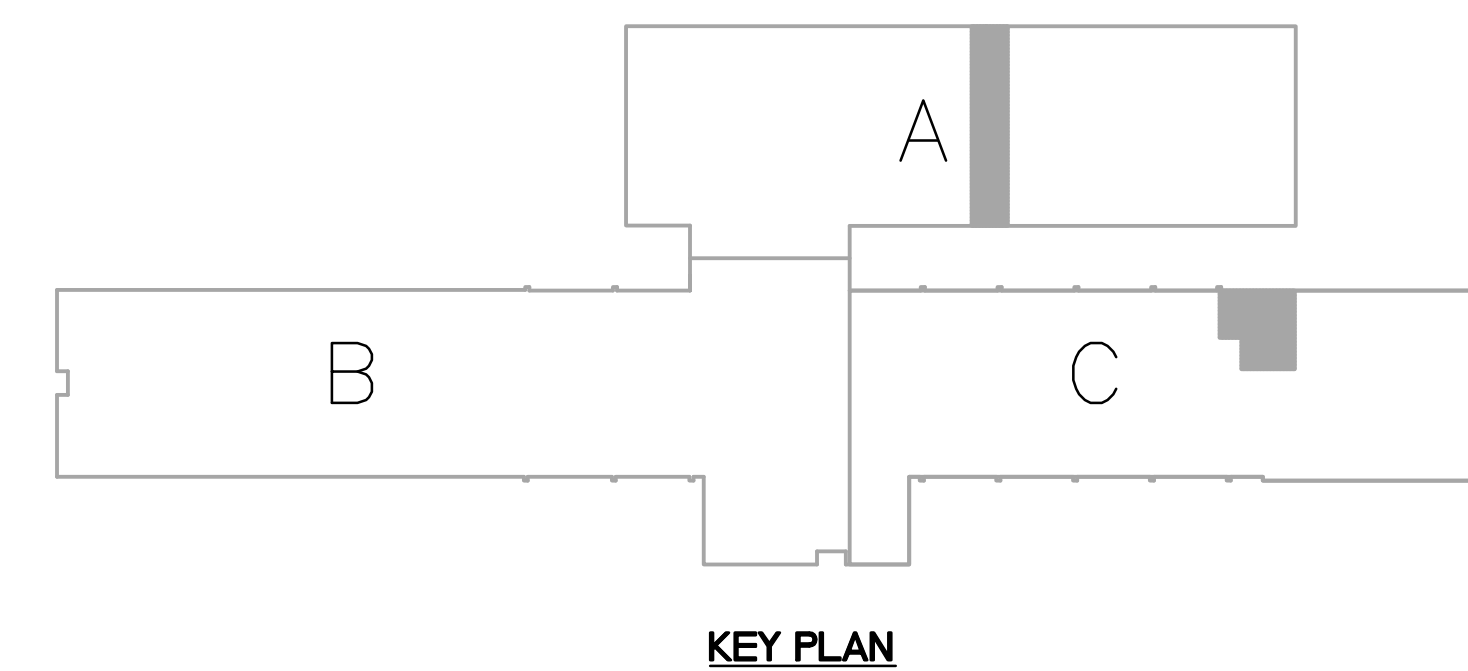
M4-4.0



GEOTHERMAL PIPING SCHEMATIC

SCALE: NTS

M4-4.0



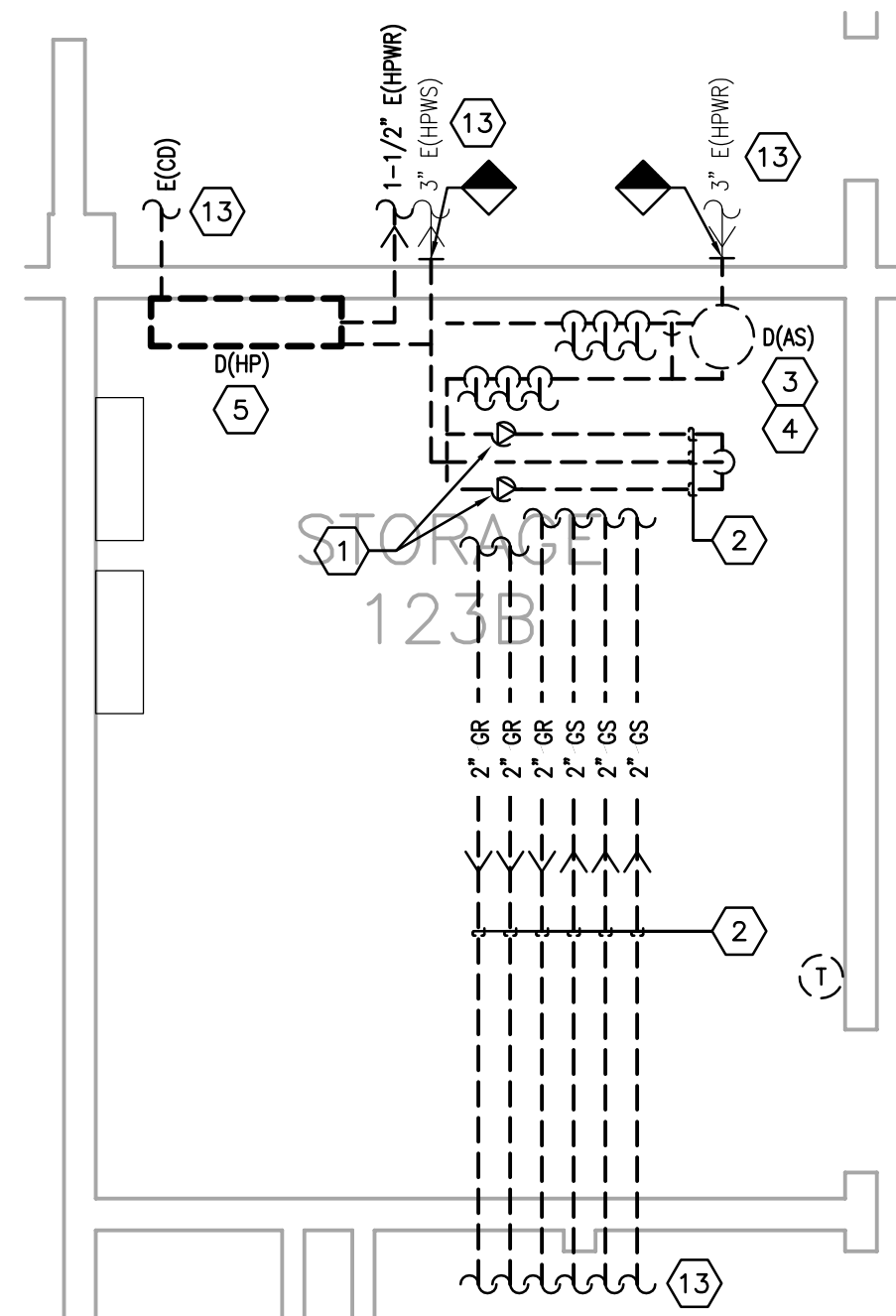
KEY PLAN

ENLARGED MECHANICAL ROOMS - GENERAL NOTES:

- A. PATCH ALL WALL/ROOF/FLOOR PENETRATIONS WHERE EXISTING MEP EQUIPMENT/PIPING/DUCTWORK/ETC IS REMOVED.
- B. REMOVE ALL CONCRETE PADS/SUPPORTS ASSOCIATED WITH MEP EQUIPMENT REMOVAL COMPLETELY; REMOVE ALL ABANDONED PADS/SUPPORTS COMPLETELY; PATCH AND SMOOTH FLOOR AS REQUIRED.

ENLARGED MECHANICAL ROOMS:

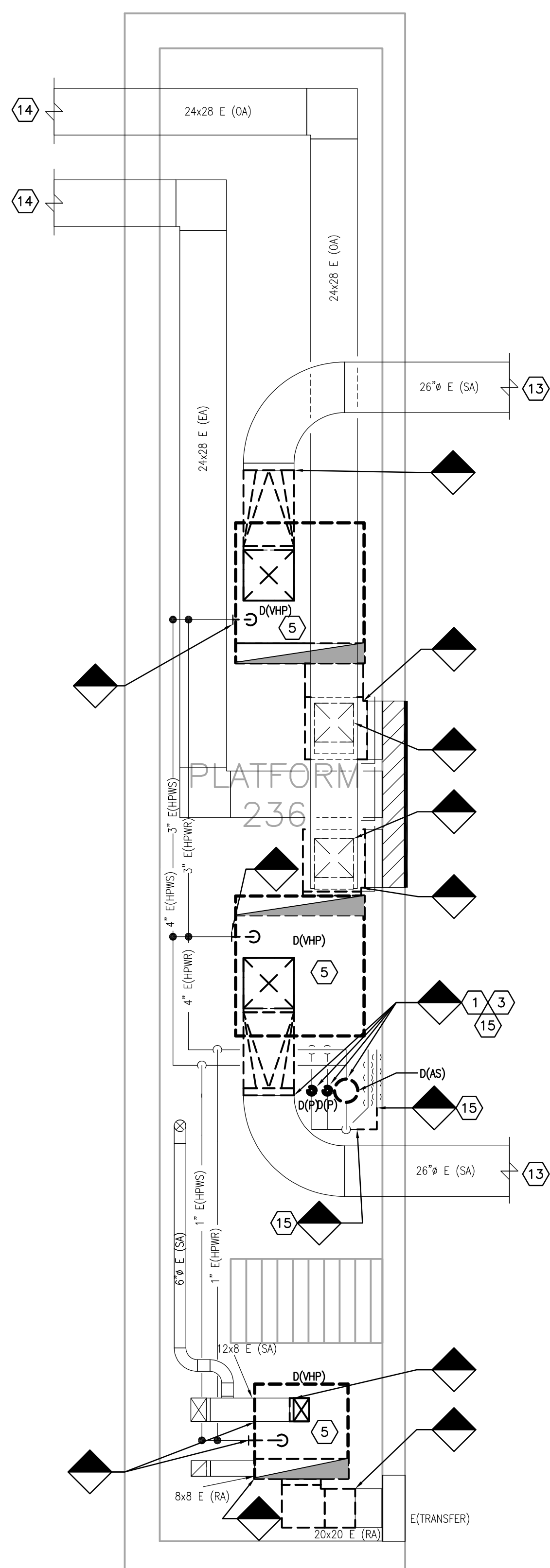
1. EXISTING PUMPS TO BE COMPLETELY REMOVED INCLUDING ALL EXISTING MECHANICAL, ELECTRICAL AND CONTROLS CONNECTIONS. CONCRETE PAD SHALL BE REMOVED; PATCH AND SMOOTH FLOOR AS REQUIRED.
2. EXISTING PIPING AND ALL ASSOCIATED VALVES, HANGERS, AND SUPPORTS TO BE COMPLETELY REMOVED. PATCH WALLS/SLAB/CEILING AT PIPING OPENINGS (TYPICAL).
3. EXISTING AIR SEPARATOR TO BE COMPLETELY REMOVED INCLUDING ALL ACCESSORIES/SUPPORTS.
4. EXISTING EXPANSION TANK TO BE COMPLETELY REMOVED INCLUDING ALL ACCESSORIES. CONCRETE PAD SHALL BE REMOVED.
5. EXISTING HEAT PUMP TO BE REMOVED COMPLETELY, INCLUDING ALL ASSOCIATED DUCTWORK, PIPING, CONDENSATE DRAIN AND PUMP (IF APPLICABLE), ELECTRICAL AND CONTROLS CONNECTIONS. PATCH WALL/FLOOR AS REQUIRED FOR COMPLETE EQUIPMENT REMOVAL.
6. EXISTING SUPPLY/RETURN/EXHAUST/OUTDOOR AIR DUCTWORK, GRILLES, AND RISER INDICATED TO BE REMOVED COMPLETELY. REMOVE ALL ASSOCIATED HANGERS/SUPPORTS/ACCESSORIES. PATCH WALLS/SLAB/CEILING AT DUCT OPENINGS (TYPICAL).
7. EXISTING LOUVER TO REMAIN. BLANK OFF THE INSIDE OF THE EXISTING LOUVER WITH SHEET METAL AND INSULATE WITH 2" RIGID INSULATION. COORDINATE LOUVER INFILL AND FINAL FINISHES WITH GENERAL CONTRACTOR.
8. EXISTING FILL STATION TO BE REMOVED COMPLETELY. REWORK DOMESTIC WATER CONNECTIONS AS REQUIRED FOR NEW FILL STATION LOCATIONS. PROVIDE ALL NECESSARY VALVES AND ACCESSORIES AS REQUIRED. REFER TO NEW WORK PLANS FOR ADDITIONAL INFORMATION.
9. PROVIDE 4" THICK CONCRETE PAD UNDER MECHANICAL EQUIPMENT. PAD SHALL BE 6" LARGER THAN THE MECHANICAL EQUIPMENT FOOTPRINT IN ALL DIRECTIONS UNLESS SHOWN LARGER ON THE FLOOR PLAN.
10. HYDRONIC FILL SYSTEM. MOUNT AT 48" A.F.F. REFER TO DETAIL ON SHEET MS-1.
11. PROVIDE A UNI-STRUT STAND FOR THE VFD. COORDINATE INSTALLATION WITH THE ELECTRICAL CONTRACTOR. PROVIDE VERTICAL UNI-STRUT ON WALL MOUNTED VFD'S.
12. DDC CONTROL PANEL. COORDINATE LOCATION WITH THE CONTROLS AND ELECTRICAL CONTRACTORS.
13. REFER TO THE FLOOR PLANS FOR CONTINUATION OF DUCTWORK/PIPING.
14. REFER TO THE ROOF PLAN FOR CONTINUATION OF DETAIL.
15. REFER TO THE GYM PLATFORM PIPING SCHEMATIC ON THIS SHEET FOR ADDITIONAL DETAIL.
16. REFER TO THE VERTICAL HEAT PUMP INSTALLATION DETAIL ON SHEET M-6.1 FOR ADDITIONAL INSTALLATION REQUIREMENTS.
17. BALANCE MANUAL VOLUME DAMPER TO CFM INDICATED ON THE FLOOR PLANS.
18. DUCT SMOKE DETECTOR. COORDINATE INSTALLATION WITH THE ELECTRICAL CONTRACTOR.
19. ROUTE GEOTHERMAL PURGE PORTS HOOKED TIGHT TO WALL AND TERMINATE 4'-0" A.F.F. PURGE PORTS MUST BE ACCESSIBLE FROM THE FIRST FLOOR LEVEL. DO NOT BLOCK DOOR OR IMPEDE LADDER ACCESS. REFER TO PIPING SCHEMATIC ON M4-4.0 FOR ADDITIONAL INFORMATION.
20. 5 GALLON POT FEEDER. REFER TO PIPING SCHEMATIC ON THIS SHEET FOR ADDITIONAL INFORMATION.



ENLARGED STORAGE 123B - MECHANICAL DEMOLITION

SCALE: 1/4" = 1'-0"

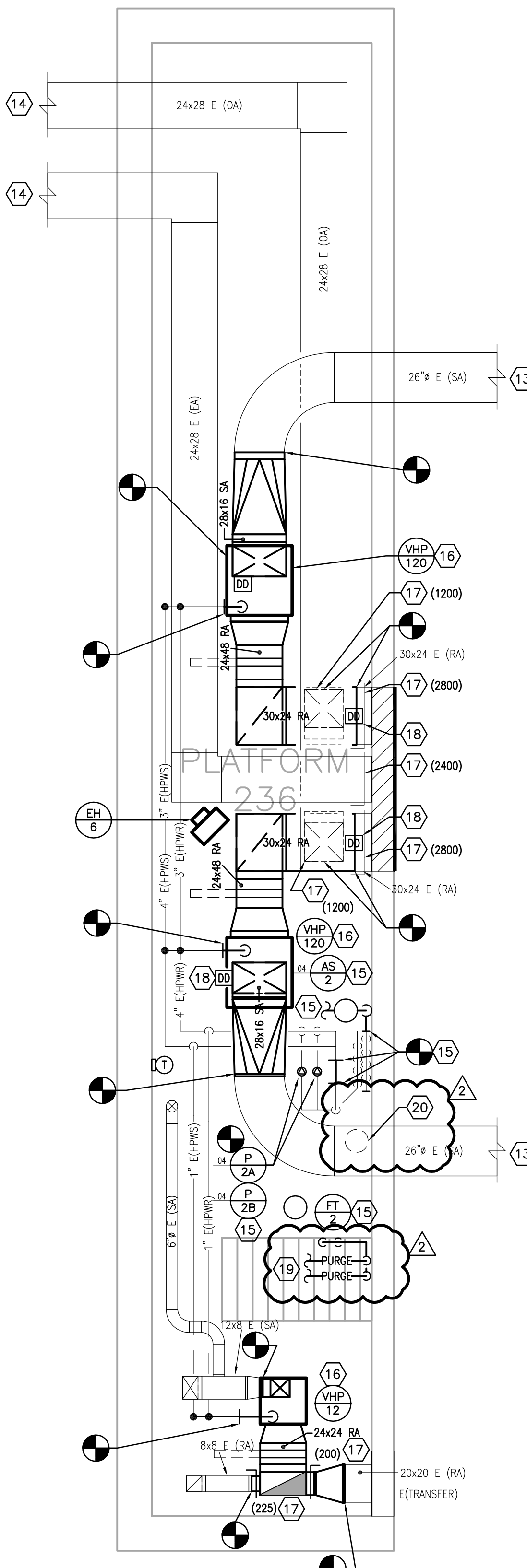
M4-4.0



ENLARGED PLATFORM 236 - MECHANICAL DEMOLITION

SCALE: 1/4" = 1'-0"

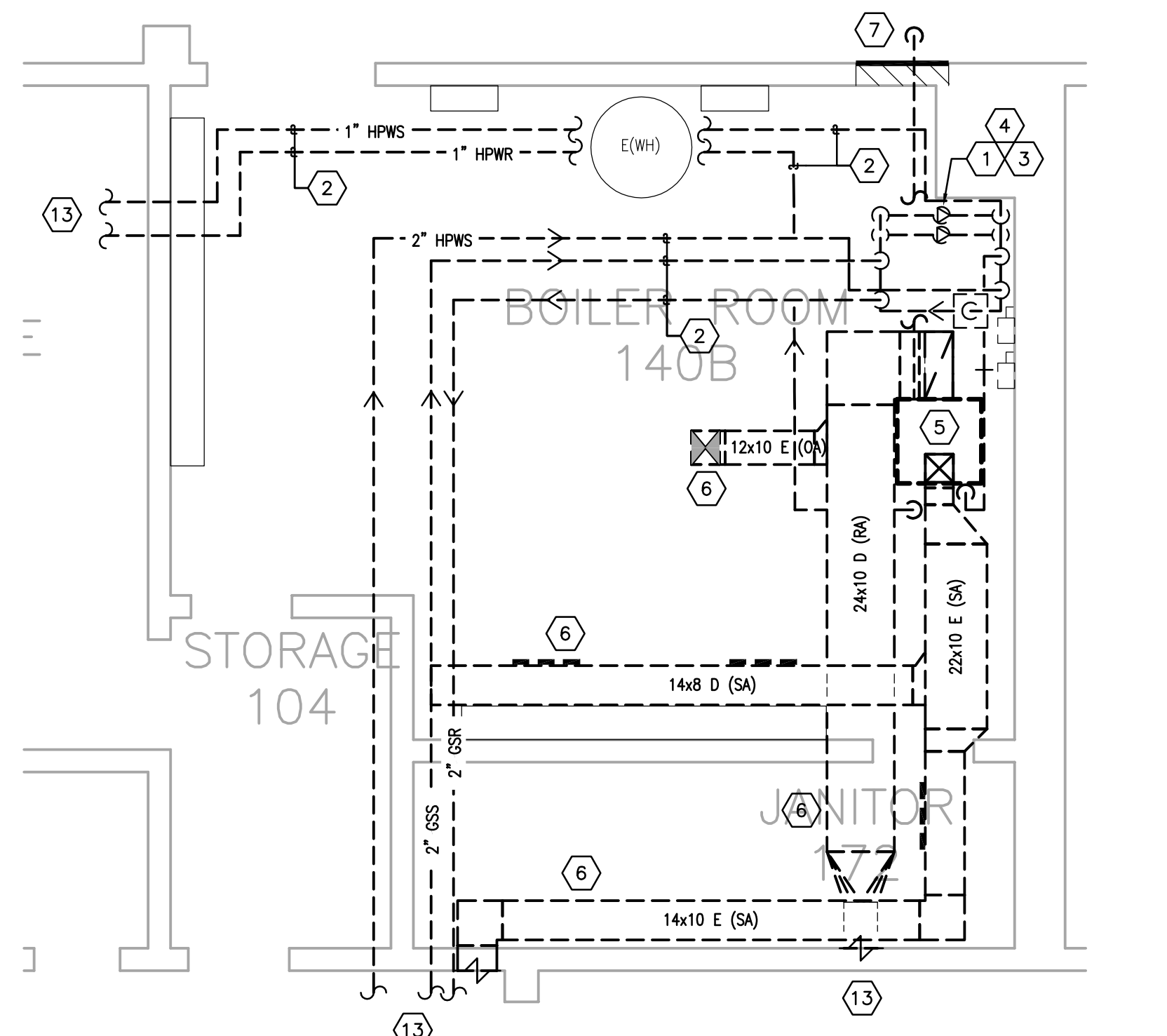
M4-4.0



ENLARGED PLATFORM 236 - MECHANICAL

SCALE: 1/4" = 1'-0"

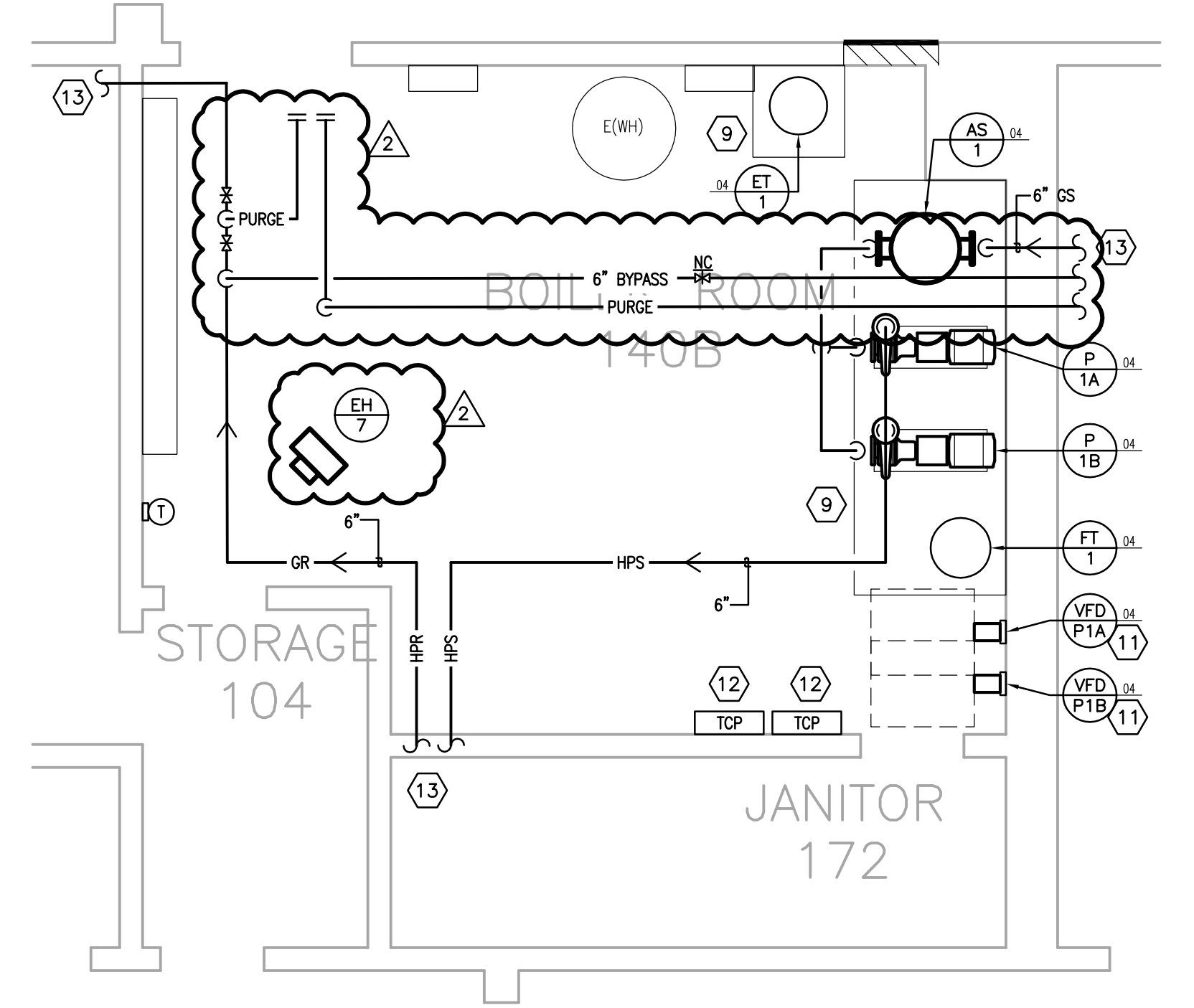
M4-4.0



ENLARGED BOILER ROOM 140B - MECHANICAL DEMOLITION

SCALE: 1/4" = 1'-0"

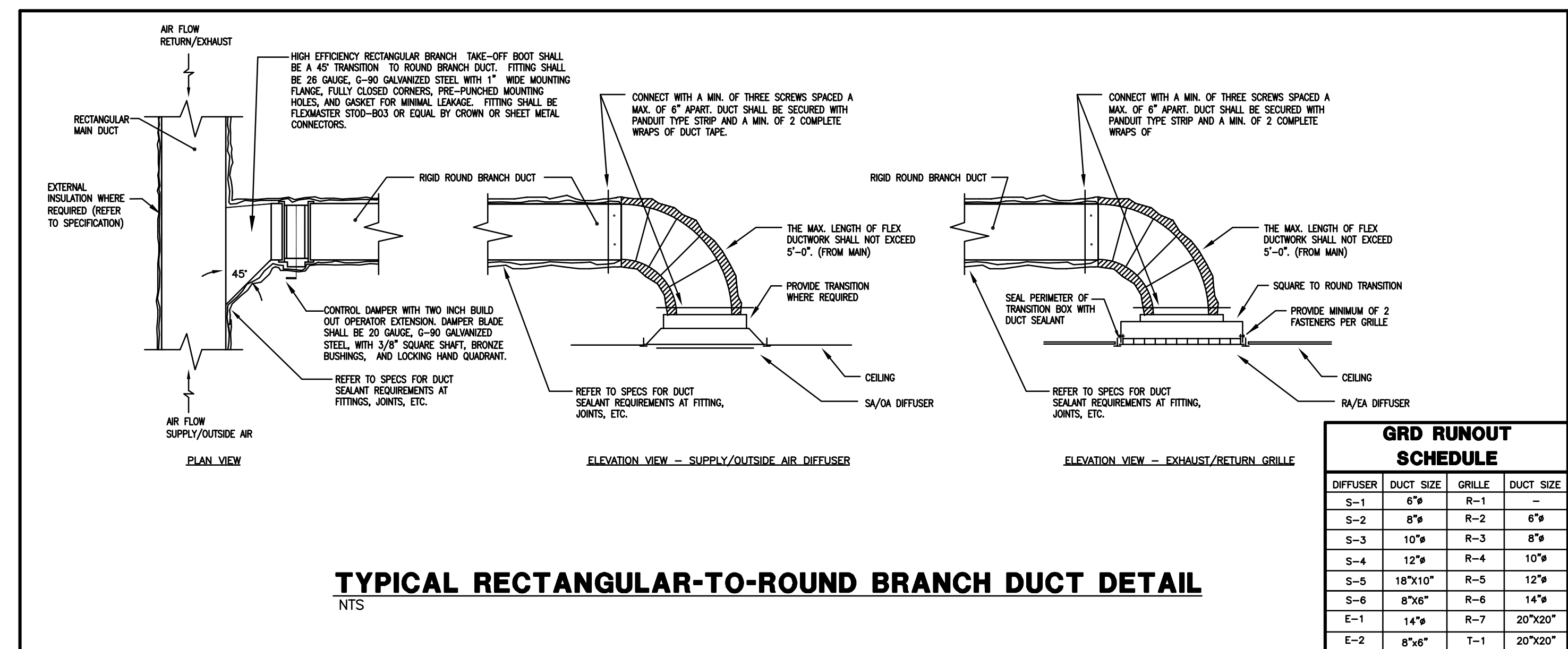
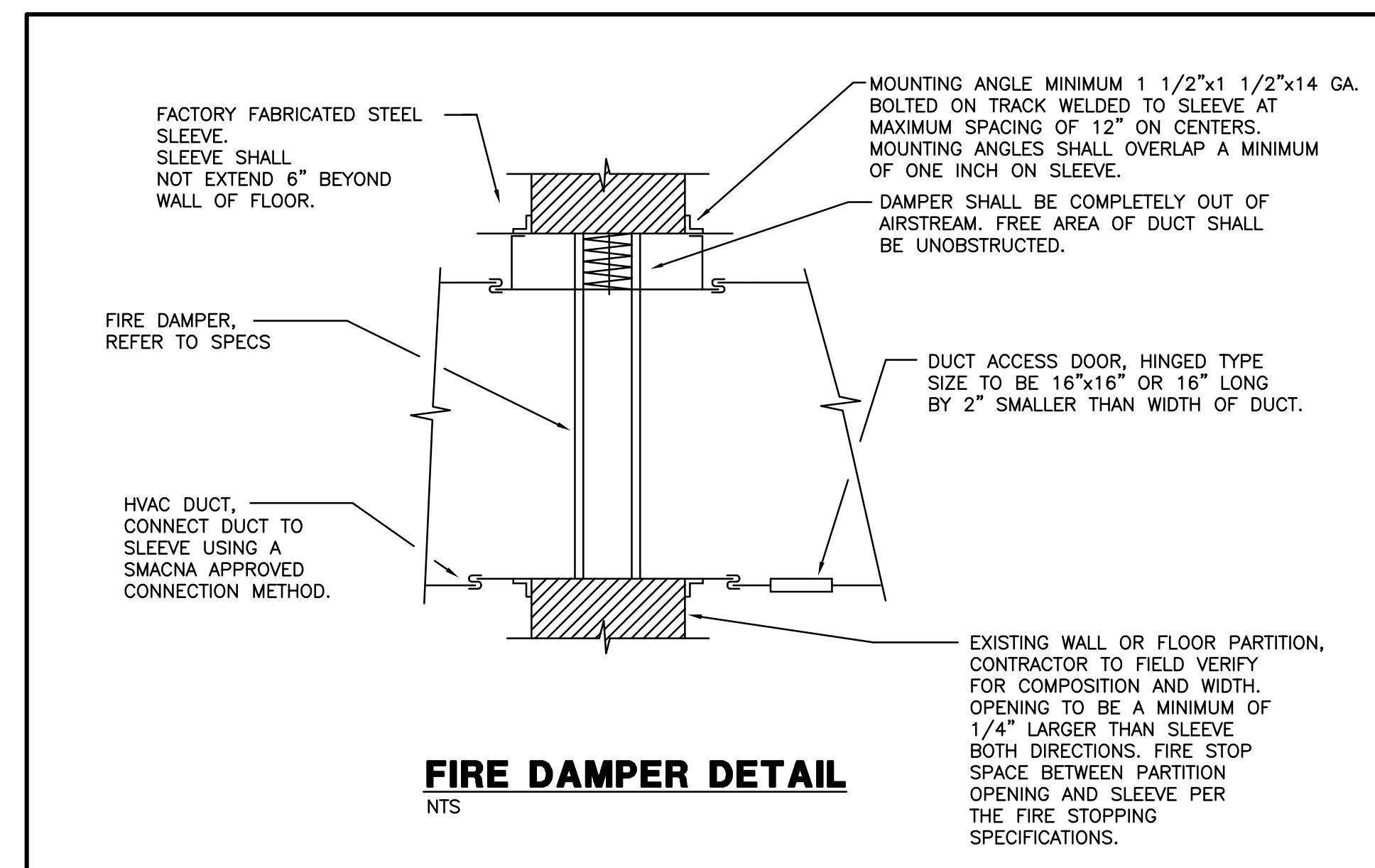
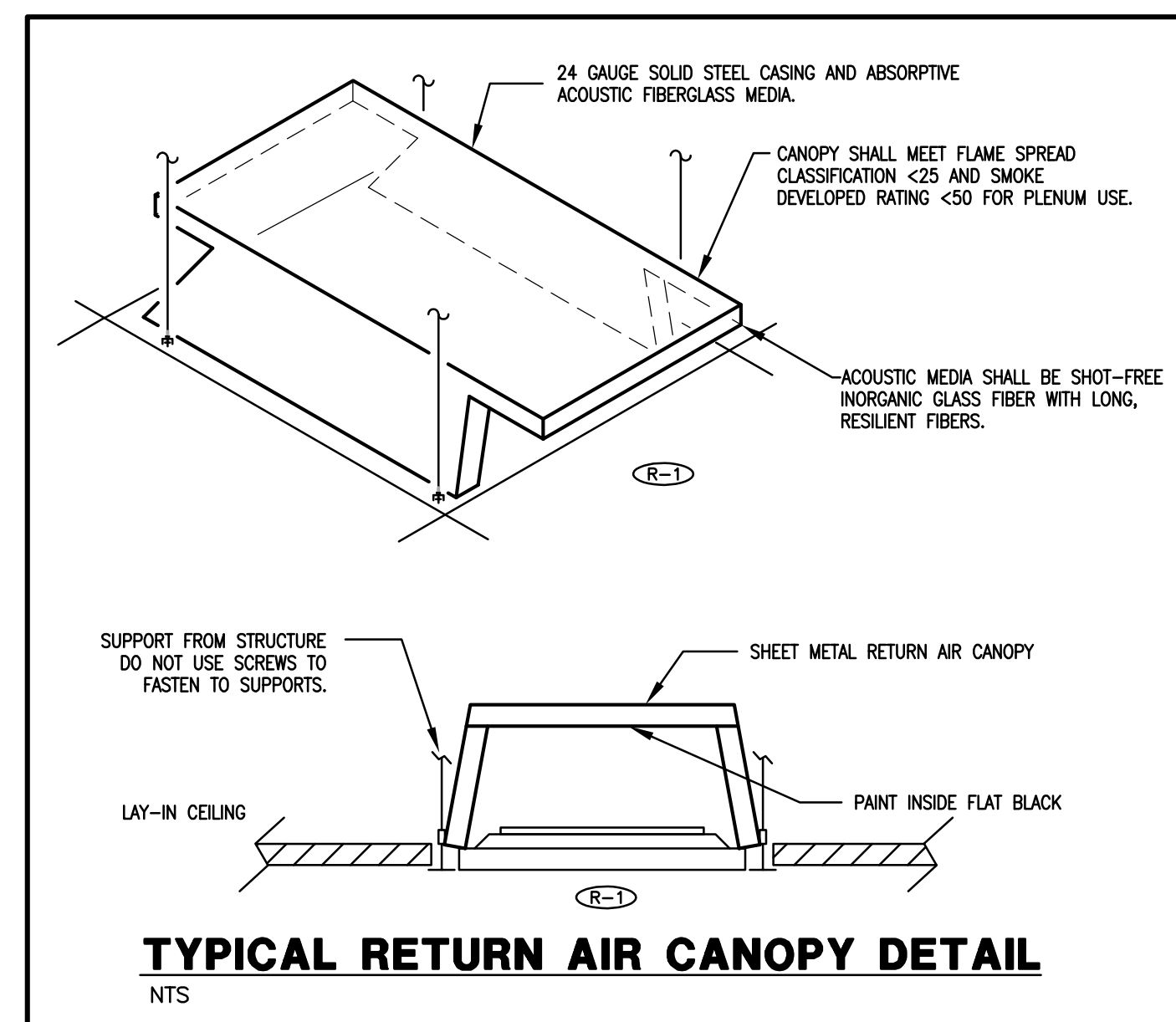
M4-4.0



ENLARGED BOILER ROOM 140B - MECHANICAL

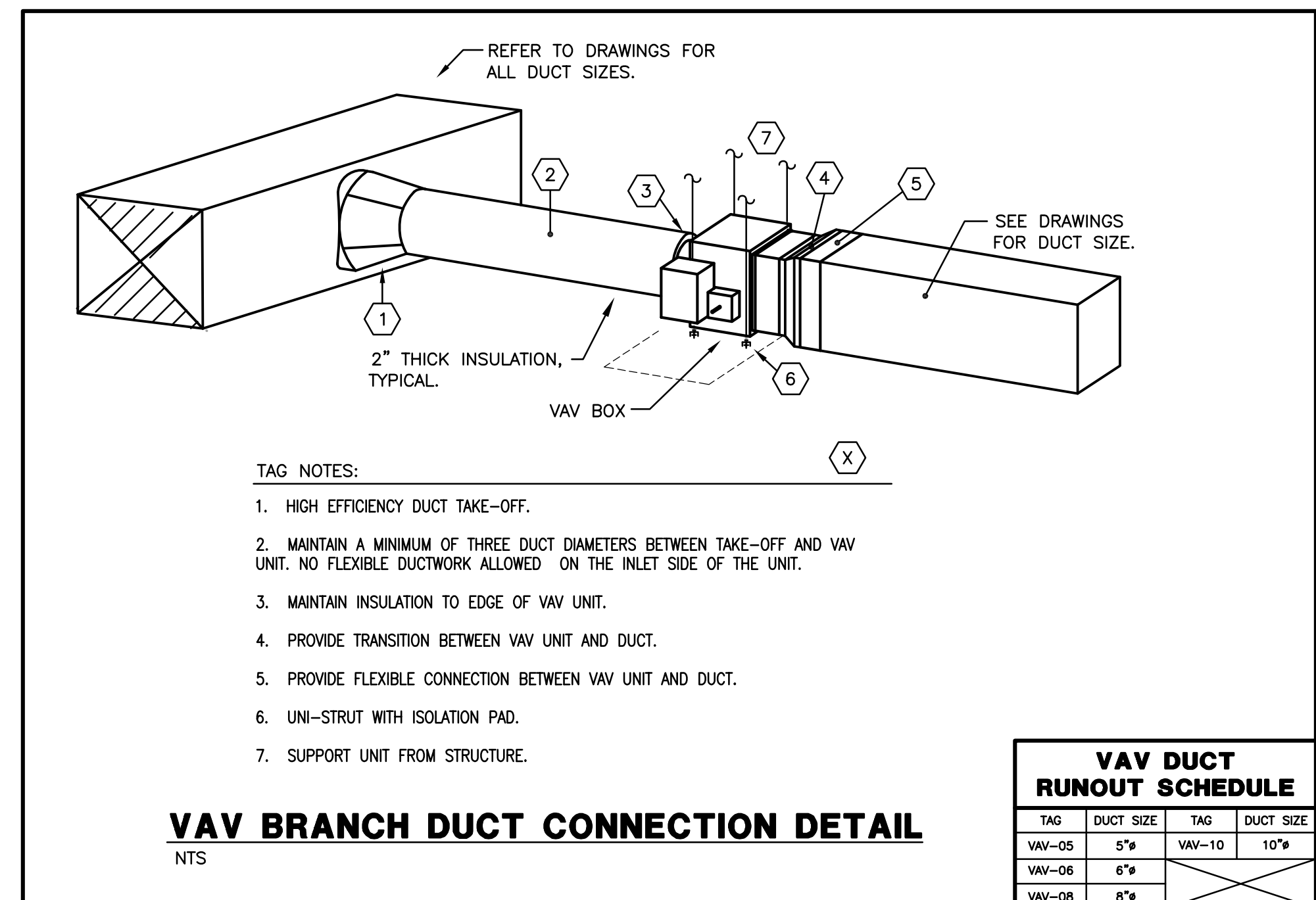
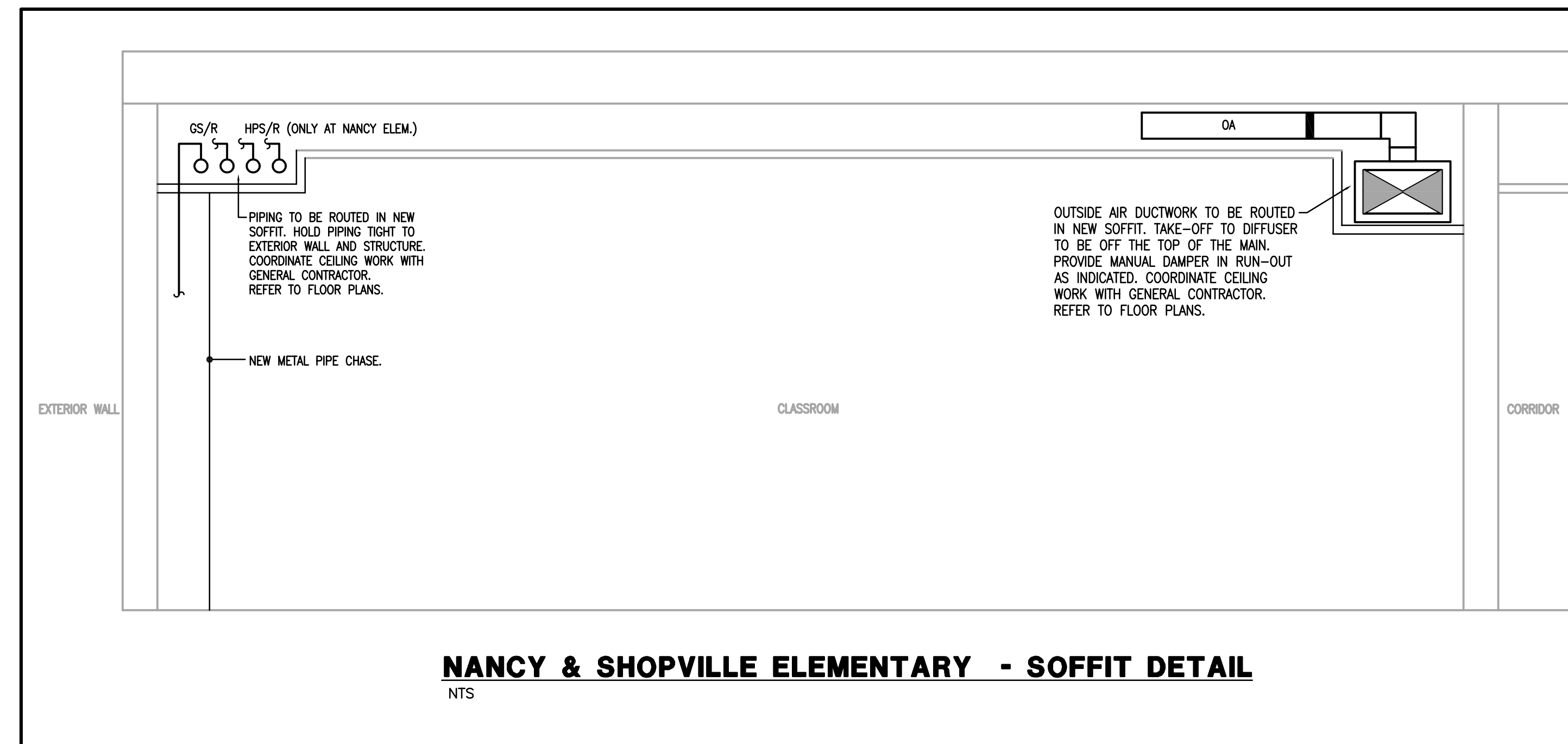
SCALE: 1/4" = 1'-0"

M4-4.0



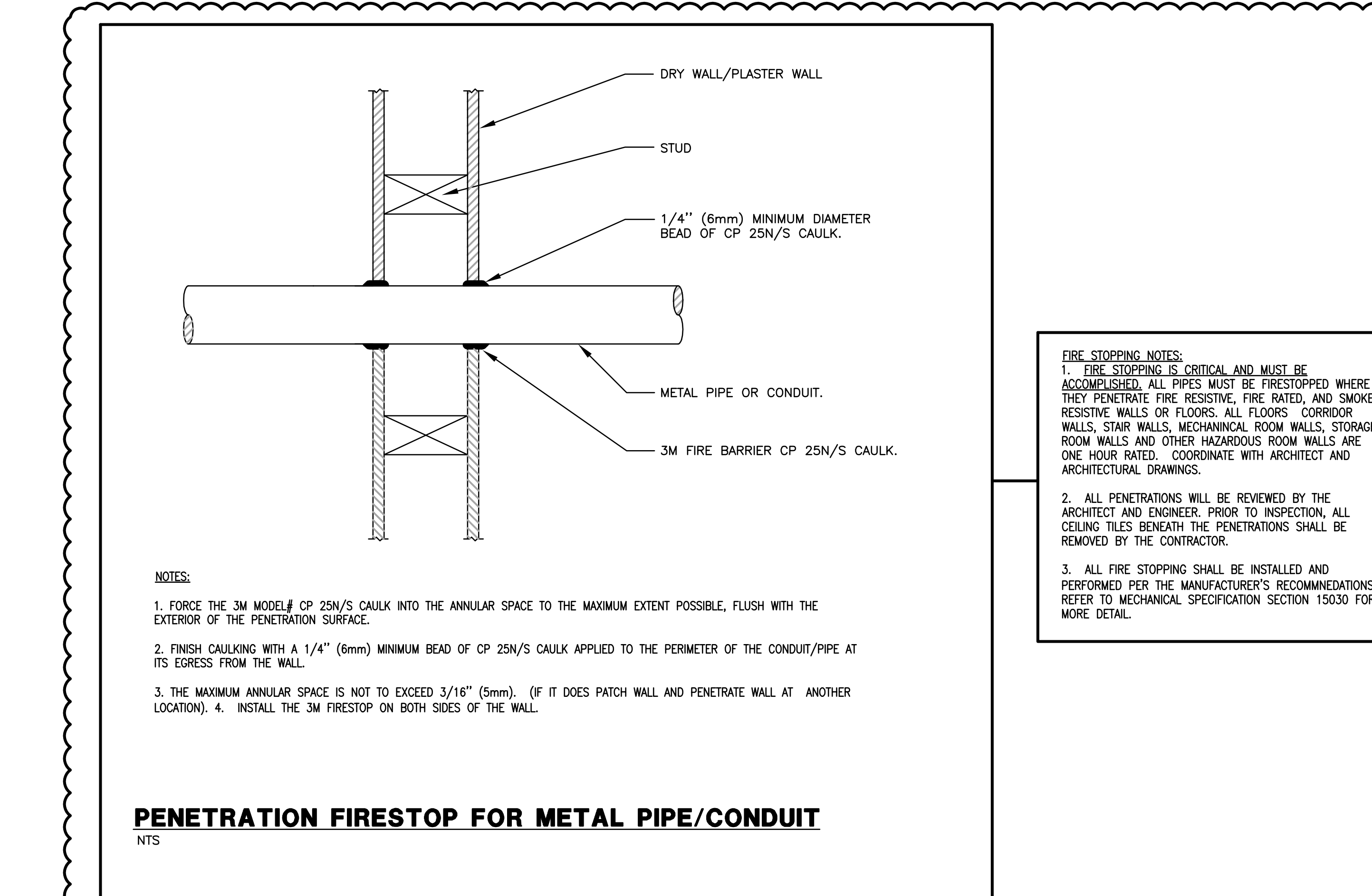
GRD RUNOUT SCHEDULE

DIFFUSER	DUCT SIZE	GRILLE	DUCT SIZE
S-1	8"	R-1	-
S-2	8"	R-2	8"
S-3	10"	R-3	8"
S-4	12"	R-4	10"
S-5	18"x10"	R-5	12"
S-6	8"x8"	R-6	14"
E-1	14"	R-7	20"x20"
E-2	8"x8"	T-1	20"x20"



VAV DUCT RUNOUT SCHEDULE

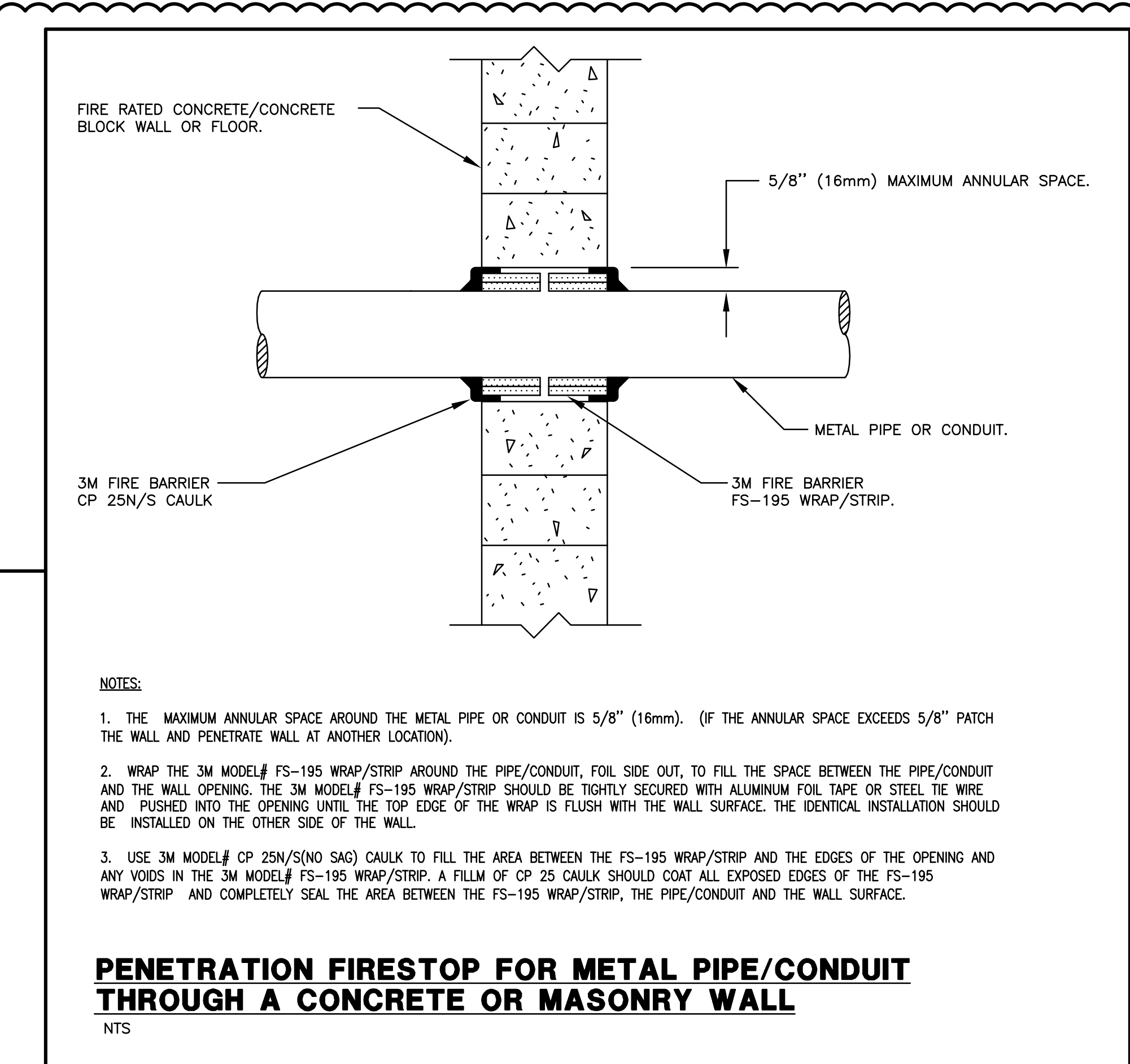
TAG	DUCT SIZE	TAG	DUCT SIZE
VAV-05	8"	VAV-10	10"
VAV-08	8"		
VAV-09	8"		



FIRE STOPPING NOTES:

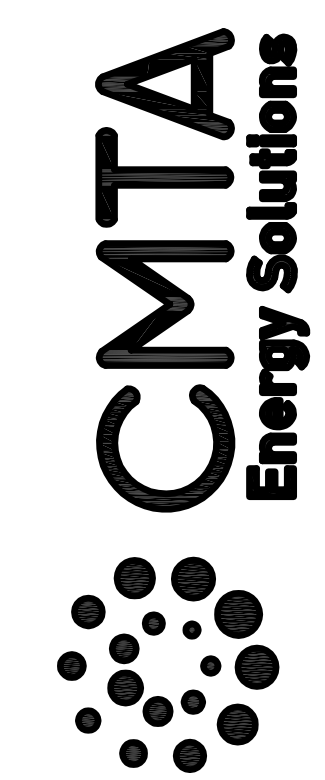
1. FIRE STOPPING IS CRITICAL AND MUST BE ACCOMPLISHED. ALL PIPES MUST BE FIRE STOPPED WHERE THEY PENETRATE FIRE RESISTIVE, FIRE RATED, AND SMOKE RESISTIVE WALLS OR FLOORS. ALL FLOORS, CORRIDOR WALLS, STAIR WALLS, MECHANICAL ROOM WALLS, STORAGE ROOM WALLS AND OTHER HAZARDOUS ROOM WALLS ARE ONE HOUR RATED. COORDINATE WITH ARCHITECT AND ARCHITECTURAL DRAWINGS.
2. ALL PENETRATIONS WILL BE REVIEWED BY THE ARCHITECT AND ENGINEER, PRIOR TO INSPECTION. ALL CEILING TILES BENEATH THE PENETRATIONS SHALL BE REMOVED BY THE CONTRACTOR.
3. ALL FIRE STOPPING SHALL BE INSTALLED AND PERFORMED PER THE MANUFACTURER'S RECOMMENDATIONS. REFER TO MECHANICAL SPECIFICATION SECTION 15030 FOR MORE DETAIL.

- NOTES:**
1. FORCE THE 3M MODEL# CP 25N/S CAULK INTO THE ANNULAR SPACE TO THE MAXIMUM EXTENT POSSIBLE, FLUSH WITH THE EXTERIOR OF THE PENETRATION SURFACE.
 2. FINISH CAULKING WITH A 1/4" (6mm) MINIMUM BEAD OF CP 25N/S CAULK APPLIED TO THE PERIMETER OF THE CONDUIT/PIPE AT ITS EGRESS FROM THE WALL.
 3. THE MAXIMUM ANNULAR SPACE IS NOT TO EXCEED 3/16" (5mm). (IF IT DOES PATCH WALL AND PENETRATE WALL AT ANOTHER LOCATION).
 4. INSTALL THE 3M FIRESTOP ON BOTH SIDES OF THE WALL.



- NOTES:**
1. THE MAXIMUM ANNULAR SPACE AROUND THE METAL PIPE OR CONDUIT IS 5/8" (16mm). (IF THE ANNULAR SPACE EXCEEDS 5/8" PATCH THE WALL AND PENETRATE WALL AT ANOTHER LOCATION).
 2. WRAP THE 3M MODEL# FS-195 WRAP/STRIP AROUND THE PIPE/CONDUIT, FOIL SIDE OUT, TO FILL THE SPACE BETWEEN THE PIPE/CONDUIT AND THE WALL OPENING. THE 3M MODEL# FS-195 WRAP/STRIP SHOULD BE TIGHTLY SECURED WITH ALUMINUM FOIL TAPE OR STEEL TIE WIRE AND PUSHED INTO THE OPENING UNTIL THE TOP EDGE OF THE WRAP IS FLUSH WITH THE WALL SURFACE. THE IDENTICAL INSTALLATION SHOULD BE INSTALLED ON THE OTHER SIDE OF THE WALL.
 3. USE 3M MODEL# CP 25N/S(SNO 340) CAULK TO FILL THE AREA BETWEEN THE FS-195 WRAP/STRIP AND THE EDGES OF THE OPENING AND ANY VOIDS IN THE 3M MODEL# FS-195 WRAP/STRIP. A FILM OF CP 25 CAULK SHOULD COAT ALL EXPOSED EDGES OF THE FS-195 WRAP/STRIP AND COMPLETELY SEAL THE AREA BETWEEN THE FS-195 WRAP/STRIP, THE PIPE/CONDUIT AND THE WALL SURFACE.

9519 Civic Way, Suite 100
Prospect, KY 40059
T: 502 4094062, F: 502 9191521
M.Brangers@CMTA.COM



Pulaski County Schools
GUARANTEED ENERGY SAVINGS CONTRACT
MECHANICAL DETAILS

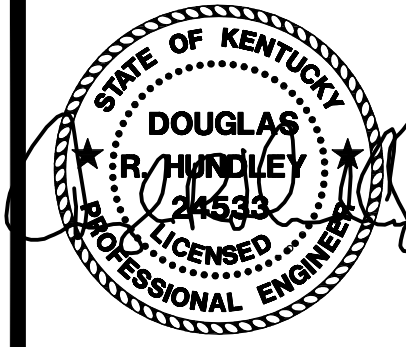
REVISIONS

ADDENDUM #1	3/18/22
ADDENDUM #2	3/25/22

DATE: 03.11.2022
DRAWN: BM, LA, HC, NT
CHECKED: CG

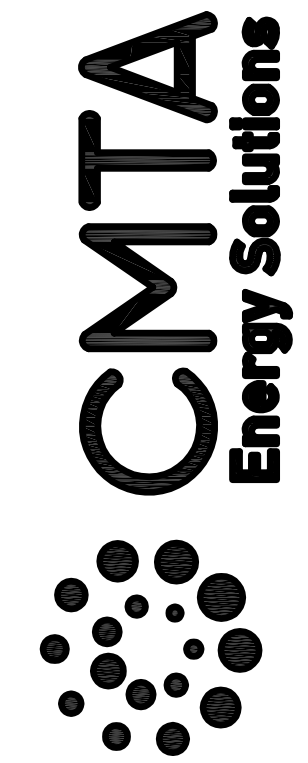
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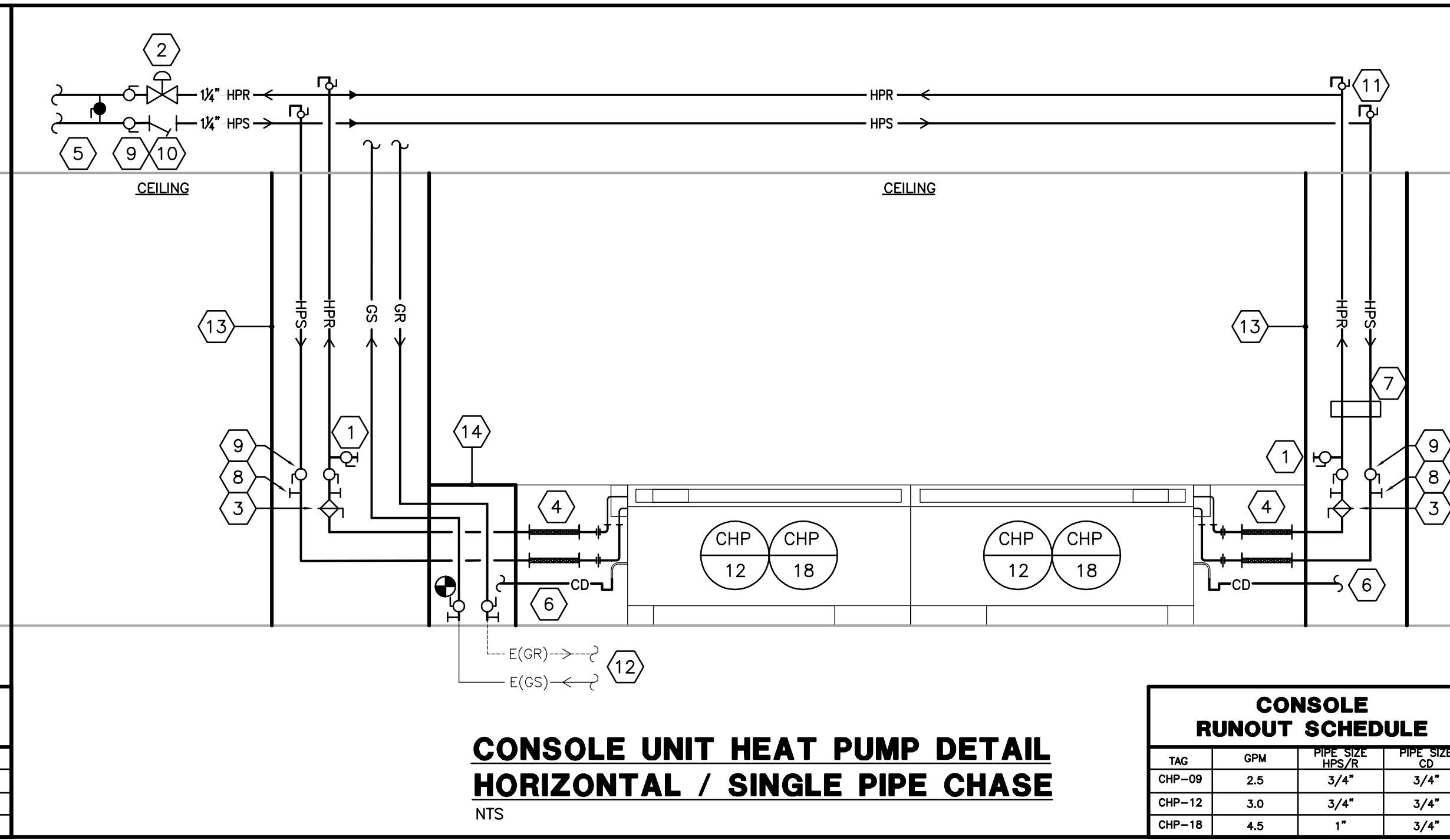
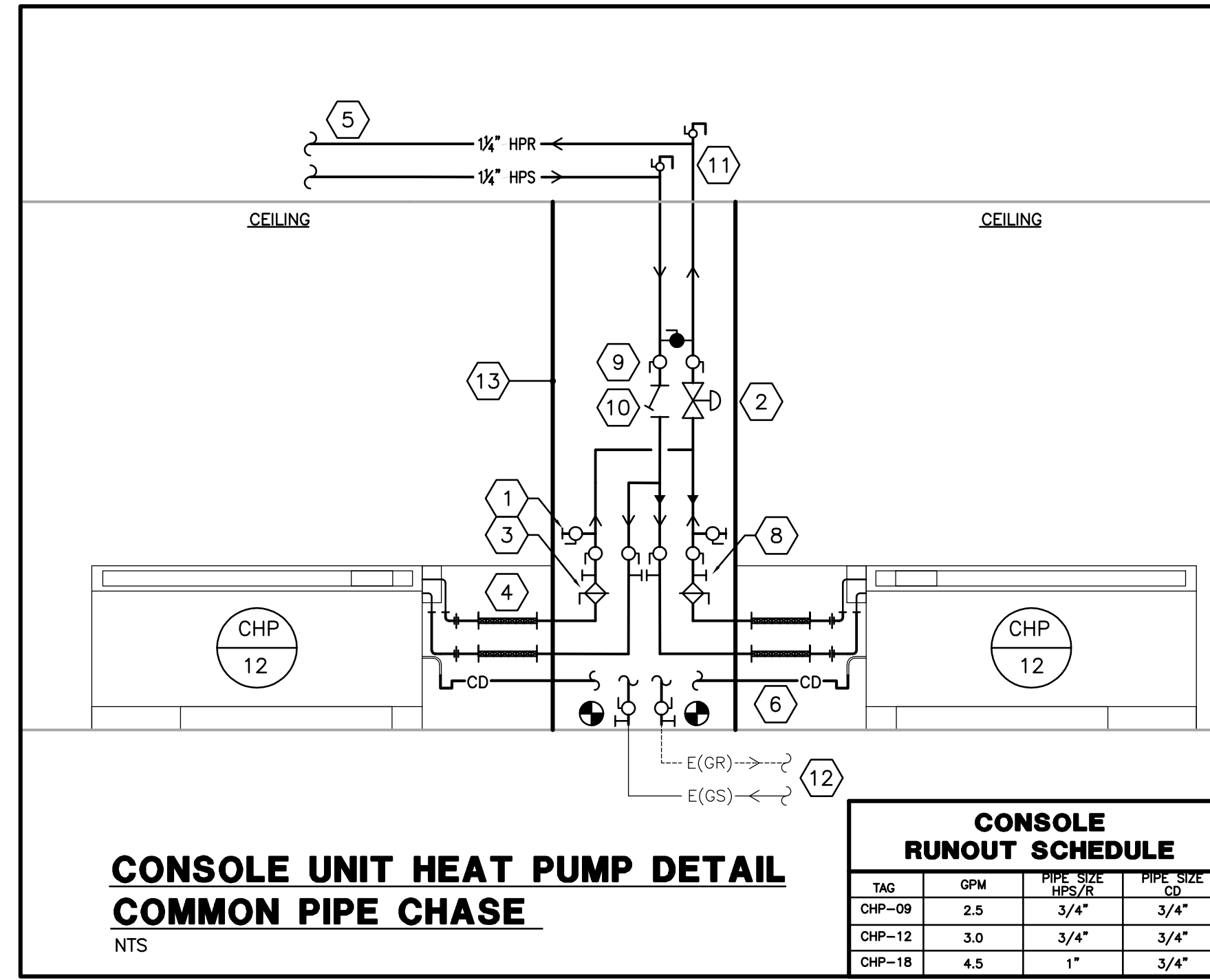
BID SET

9519 Civic Way, Suite 100
Prospect, KY 40059
T: 502 409-4062, F: 502 919-1521
M: brangser@cmta.com

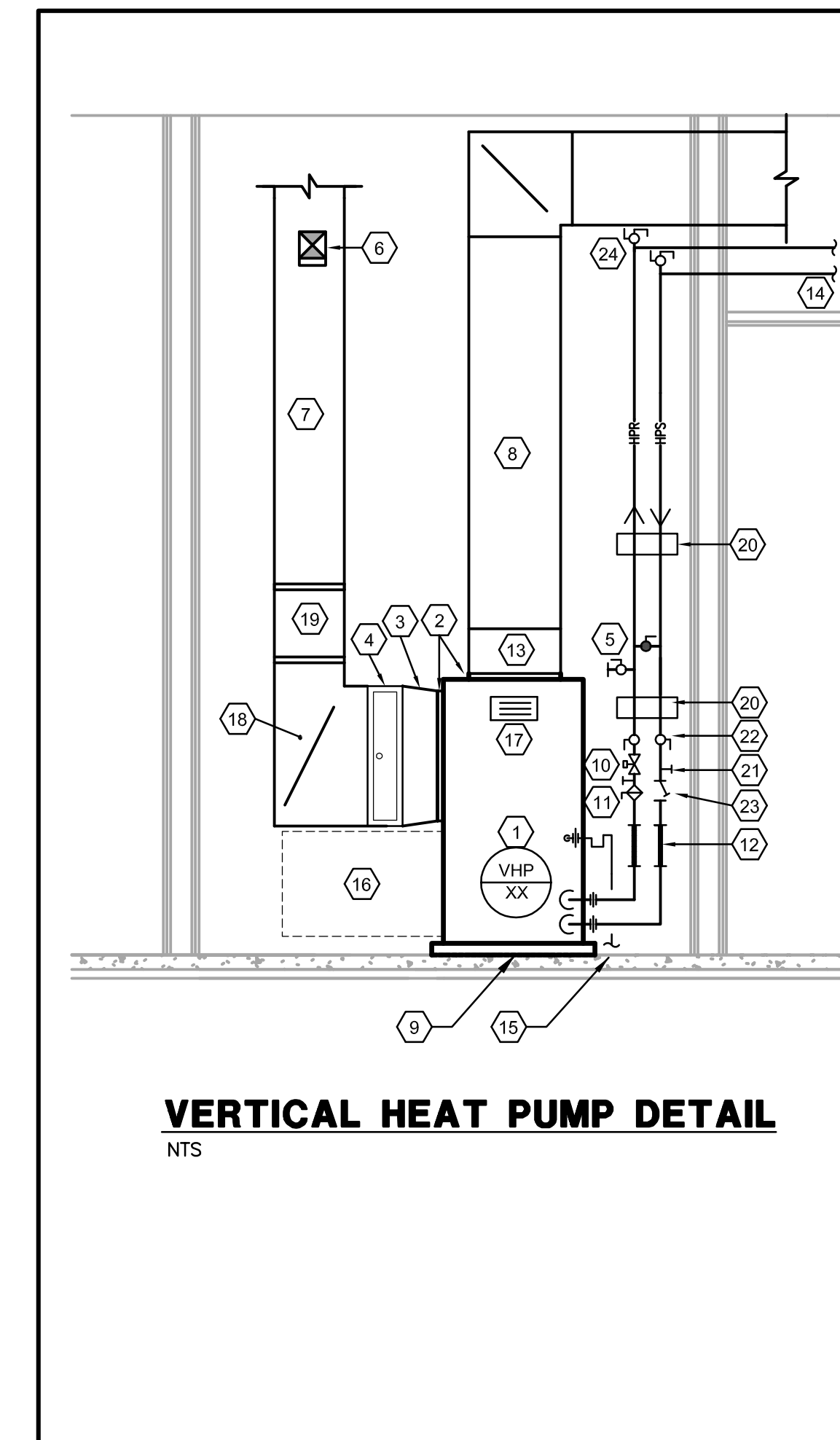
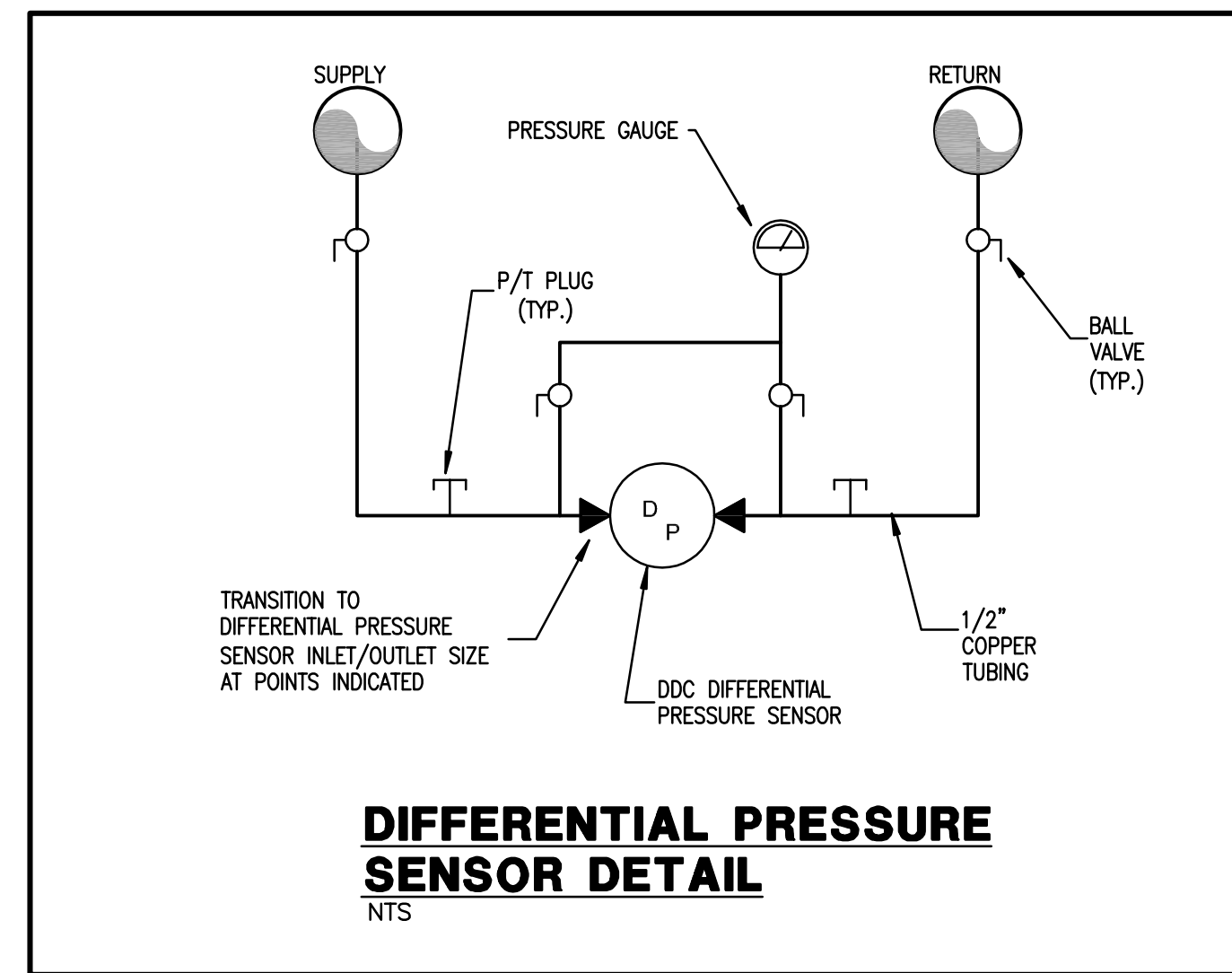
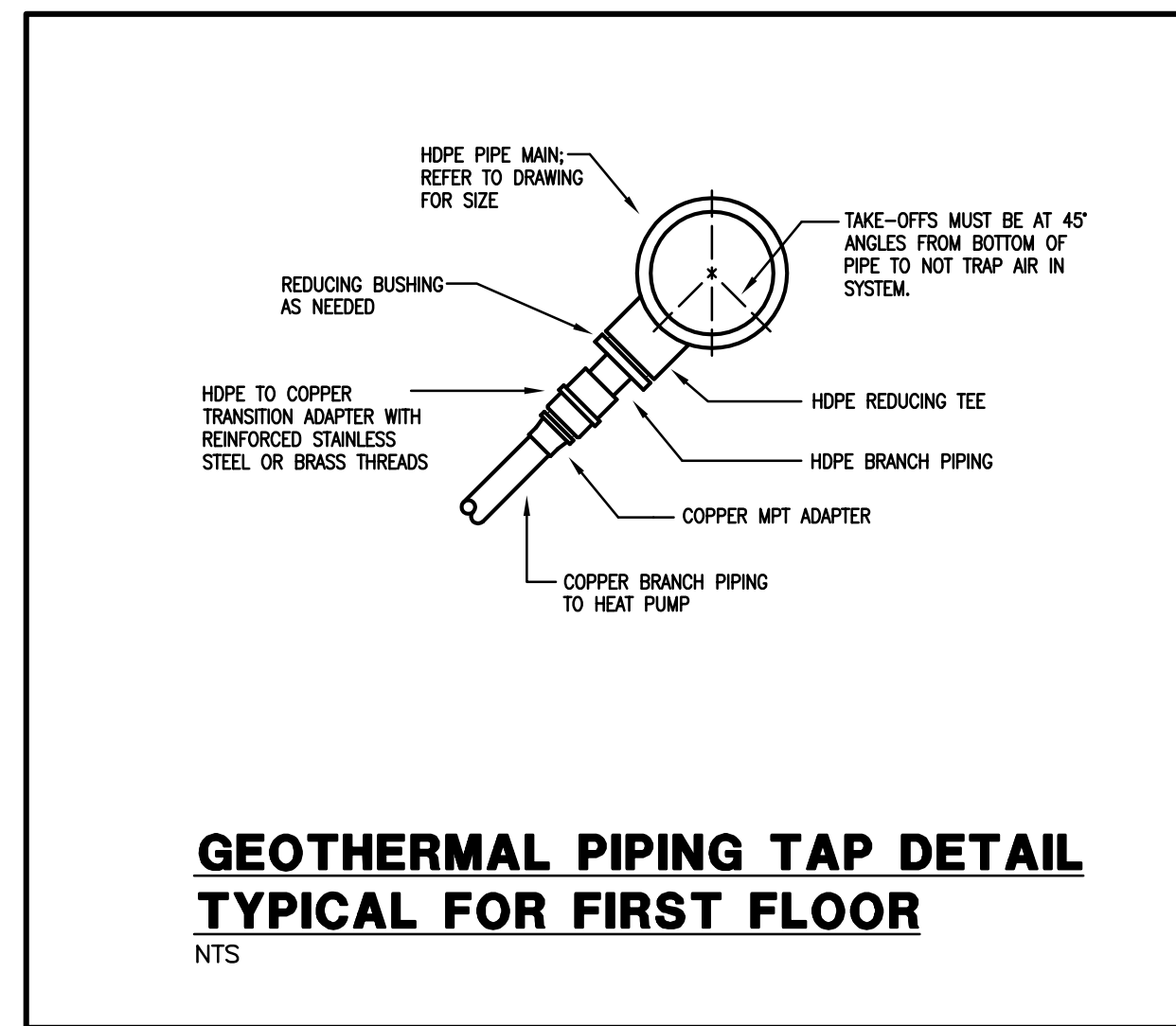


Pulaski County Schools
GUARANTEED ENERGY SAVINGS CONTRACT

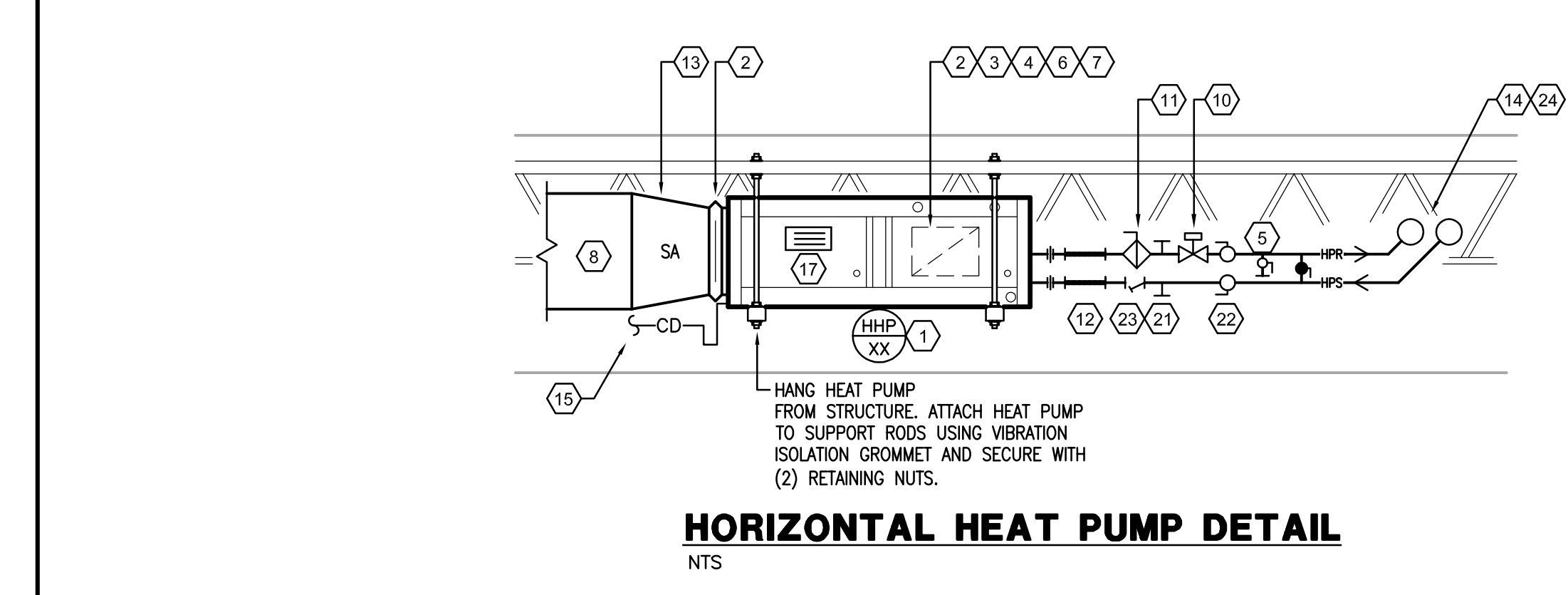
MECHANICAL DETAILS



- HEAT PUMP NOTES: *REFER TO FLOOR PLANS FOR UNIT CONFIGURATIONS
- PROVIDE BALL VALVE WITH A 3/4" HOSE BIBB CONNECTION. PROVIDE WITH GASKETED DUST CAP.
 - TWO POSITION CONTROL VALVE (FULL PORT). PROVIDE A BELIMO THREE-WIRE, TWO WAY, TWO-POSITION CONTROL VALVE WITH ACTUATOR. CONTROL VALVE PROVIDED BY TCC. COORDINATE WITH TCC.
 - AUTOMATIC BALANCING VALVES.
 - 9" FLEXIBLE HOSE.
 - REFER TO DRAWINGS FOR CONTINUATION OF HPS/HRR PIPING. REFER TO THE PIPING RUNOUT SCHEDULE FOR PROPER SIZING.
 - ROUTE CONDENSATE THROUGH EXTERIOR WALL AND SPILL TO GRADE.
 - SECURELY SUPPORT PIPING FROM WALL, TYPICAL. UTILIZE VIBRATION ISOLATION SUPPORTS AT PIPING SUPPORT.
 - INCLUDE SINGLE PRESSURE/TEMPERATURE TEST PORTS.
 - ISOLATION VALVE.
 - STRAINER. FURNISH WITH HOSE CONNECTOR BLOW DOWN VALVE.
 - MANUAL AIR VENTS SHALL BE INSTALLED AT THE TOP OF ALL GEOTHERMAL PIPES.
 - EXISTING GEOTHERMAL PIPING ROUTED UNDERSLAB TO EXISTING WELLFIELD. PROVIDE INTERIOR SHUT-OFF VALVES AS REQUIRED. CONTRACTOR RESPONSIBLE FOR VERIFYING PIPE FLOW DIRECTION AND PIPE SIZE FOR CONNECTION.
 - NEW VERTICAL METAL PIPE CHASE. PROVIDE ACCESS PANEL AT VALVES. CONTRACTOR TO COORDINATE CHASE AND PANEL SIZE.
 - NEW HORIZONTAL METAL PIPE CHASE. PROVIDE ACCESS PANEL AT VALVES. CONTRACTOR TO COORDINATE CHASE AND PANEL SIZE.



- HEAT PUMP NOTES: *REFER TO FLOOR PLANS FOR UNIT CONFIGURATIONS
- HEAT PUMP UNIT. DO NOT BLOCK ACCESS PANEL FOR HEAT PUMP UNIT WITH ANY OBJECT.
 - PROVIDE FLEXIBLE CANVAS CONNECTIONS AT UNIT CONNECTION. TRANSITION DUCTWORK TO UNIT OPENING AS NEEDED.
 - TRANSITION FROM FULL SIZE OF UNIT TO FILTER SECTION.
 - SIDE ACCESS FILTER SECTION. PROVIDE MAGNETIC GAUGE TAPS FOR DIFFERENTIAL PRESSURE MONITORING VIA A MANUAL/PORTABLE GAUGE. HOUSINGS SHALL BE FACTORY ASSEMBLED, HAVE ONE HINGED ACCESS DOOR WITH QUICK ACCESS LATCHES, AND BE CONSTRUCTED ON 16 GAUGE ALUMINIZED STEEL MINIMUM.
 - PROVIDE BALL VALVE WITH A 3/4" HOSE BIBB CONNECTION. PROVIDE WITH GASKETED DUST CAP.
 - IF APPLICABLE, CONNECT OUTSIDE AIR DUCT TO RETURN AIR DUCT WITH HIGH EFFICIENCY TAKE-OFF. REFER TO DRAWINGS FOR DUCT SIZE.
 - RETURN AIR DUCTWORK. REFER TO DRAWINGS FOR DUCT SIZE.
 - SUPPLY AIR DUCTWORK. REFER TO DRAWINGS FOR DUCT SIZE.
 - VIBRATION ISOLATION PAD (RUBBER OR CORK) AT UNIT BASE.
 - TWO POSITION CONTROL VALVE (FULL PORT). PROVIDE A BELIMO THREE-WIRE, TWO WAY, TWO-POSITION CONTROL VALVE WITH ACTUATOR. CONTROL VALVE PROVIDED BY TCC. COORDINATE WITH TCC.
 - AUTOMATIC BALANCING VALVES.
 - FLEXIBLE HOSE.
 - TRANSITION FROM FULL SIZE OF UNIT OUTLET TO DUCT SIZE INDICATED ON THE DRAWINGS.
 - REFER TO DRAWINGS FOR CONTINUATION OF HPS/HRR PIPING. REFER TO THE PIPING RUNOUT SCHEDULE FOR PROPER SIZING.
 - SPILL CONDENSATE TO NEAREST FLOOR DRAIN OR EXISTING CONDENSATE PIPE, UNLESS OTHERWISE NOTED.
 - MAINTAIN 24" CLEARANCE ON LEFT HAND SIDE OF HEAT PUMP TO ALLOW FOR ACCESS TO COMPRESSOR.
 - IDENTIFICATION PLACARD: THE PLACARD SHALL INCLUDE THE ELECTRIC PANEL NAME, CIRCUIT NUMBER FEEDING THE EQUIPMENT, AND AREA SERVED.
 - PROVIDE TRANSITION ELBOW WITH VANES, TYPICAL OF ALL.
 - TRANSITION DUCT FROM ELBOW TO DUCT SIZE INDICATED ON PLANS.
 - SECURELY SUPPORT PIPING FROM WALL, TYPICAL. UTILIZE VIBRATION ISOLATION SUPPORTS AT PIPING SUPPORT.
 - INCLUDE SINGLE PRESSURE/TEMPERATURE TEST PORTS.
 - ISOLATION VALVE.
 - STRAINER. FURNISH WITH HOSE CONNECTOR BLOW DOWN VALVE.
 - MANUAL AIR VENTS SHALL BE INSTALLED AT THE TOP OF ALL GEOTHERMAL PIPES.



VERTICAL HEAT PUMP RUNOUT SCHEDULE				HORIZONTAL HEAT PUMP RUNOUT SCHEDULE			
TAG	GPM	PIPE SIZE HPS/R	PIPE SIZE CD	TAG	GPM	PIPE SIZE HPS/R	PIPE SIZE CD
VHP-06	1.5	3/4"	3/4"	VHP-48*	12.0	1 1/2"	1"
VHP-12	3.0	3/4"	3/4"	VHP-60*	15.0	1 1/2"	1"
VHP-18*	4.5	1"	3/4"	VHP-72*	18.0	1 1/2"	1 1/4"
VHP-24*	6.0	1 1/4"	3/4"	VHP-120*	30.0	2"	1 1/4"
VHP-24*	8.0	1 1/4"	3/4"	VHP-120	24.0	2"	1 1/4"
VHP-36*	9.0	1 1/4"	1"				

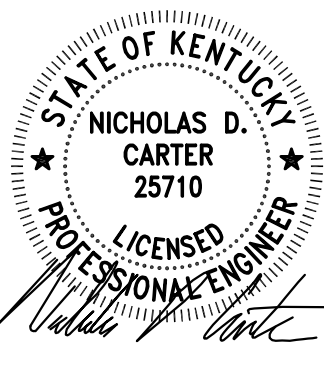
* INDICATES NON-GLYCOL.

- REVISIONS
- ADDENDUM #1 - 3/18/22
 - ADDENDUM #2 - 3/25/22

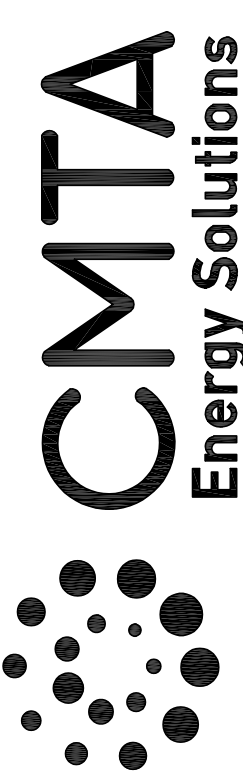
DATE: 03.11.2022
DRAWN: BM, LA, HC, NT
CHECKED: CG

SET NO.

M-6.1



9519 Civic Way, Suite 100
Prospect, KY 40059
T: 502 409-4060, F: 502 919-1521
M: brangesc@CMTA.COM



Pulaski County Schools
GUARANTEED ENERGY SAVINGS CONTRACT

GENERAL NOTES

REVISIONS
▲ ADDENDUM #2 - 3/25/22

DATE: 3/1/22
DRAWN: NDC
CHECKED: NDC

SET NO.

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LIGHT GAUGE METAL FRAMING

MATERIALS

- ALL THE COLD FORMED MEMBERS SHALL COME FROM A SINGLE MANUFACTURER; ONLY MANUFACTURERS WHO ARE MEMBERS OF THE STEEL STUD MANUFACTURER'S ASSOCIATION (SSMA) WILL BE ACCEPTED. THE INSTALLATION SHALL COMPLY WITH THE MANUFACTURER'S RECOMMENDATIONS.
- ALL MEMBERS SHALL BE FORMED FROM STEEL CORRESPONDING TO A TYPE LISTED THE AISI 'SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS'. STUDS LIGHTER THAN 16GA SHALL HAVE A MINIMUM YIELD STRENGTH OF 33KSI, 16GA AND HEAVIER SHALL HAVE A MINIMUM YIELD STRENGTH OF 50KSI.
- ALL STRUCTURAL FRAMING ACCESSORIES SHALL BE FORMED FROM STRUCTURAL QUALITY STEEL WITH MINIMUM YIELD STRENGTH OF 50 KSI AND HAVE MINIMUM PROTECTIVE COATING EQUAL TO ASTM A653/A653M G-60 GALVANIZED COATING.
- ALL PRODUCTS SHALL HAVE A COATING CORRESPONDING TO THE MINIMUM REQUIREMENTS OF ASTM C955.
- THE FOLLOWING MATERIAL SHALL BE UNPUNCHED AND HAVE THE INDICATED PROPERTIES:

DESCRIPTION	MIN THICKNESS	MIN YIELD
CLIP ANGLES	18ga	50ksi
BASE TRACK	18ga	50ksi
DEFLECTION TRACK	14ga	50ksi
DIAGONAL BRACING	2 x 16ga	50ksi
BRIDGING CHANNEL	1500D55-54	50ksi
BRIDGING CLIPS	1½x18x16ga	50ksi

FABRICATION

- FABRICATE COLD-FORMED METAL FRAMING AND ACCESSORIES PLUMB, SQUARE, AND TRUE TO LINE, AND WITH CONNECTIONS SECURELY FASTENED, ACCORDING TO AISI'S SPECIFICATIONS AND STANDARDS, MANUFACTURER'S WRITTEN INSTRUCTIONS.
- CUT FRAMING MEMBERS BY SAWING OR SHEARING; DO NOT TORCH CUT. FASTEN COLD-FORMED METAL FRAMING MEMBERS SECURELY FASTENING, OR RIVETING AS STANDARD WITH FABRICATOR. WIRE TYING OF FRAMING MEMBERS IS NOT PERMITTED.
- FABRICATION TOLERANCES: FABRICATE ASSEMBLIES LEVEL, PLUMB, AND TRUE TO LINE TO A MAXIMUM ALLOWABLE TOLERANCE VARIATION OF 1/8 INCH IN 10 FEET AND AS FOLLOWS:
 - SPACING: SPACE INDIVIDUAL FRAMING MEMBERS NO MORE THAN PLUS OR MINUS 1/8 INCH FROM PLAN LOCATION. CUMULATIVE ERROR SHALL NOT EXCEED MINIMUM FASTENING REQUIREMENTS OF SHEATHING OR OTHER FINISHING MATERIALS.
 - SQUARENESS: FABRICATE EACH COLD-FORMED METAL FRAMING ASSEMBLY TO A MAXIMUM OUT-OF-SQUARE TOLERANCE OF 1/8 INCH.

EXECUTION

- EXAMINE SUPPORTING SUBSTRATES AND ABUTTING STRUCTURAL FRAMING FOR COMPLIANCE WITH REQUIREMENTS FOR INSTALLATION TOLERANCES AND OTHER CONDITIONS AFFECTING PERFORMANCE. PROCEED WITH INSTALLATION ONLY AFTER UNSATISFACTORY CONDITIONS HAVE BEEN CORRECTED.
- INSTALL LOAD BEARING SHIMS OR GROUT BETWEEN THE UNDERSIDE OF WALL BOTTOM TRACK OR RIM TRACK AND THE TOP OF FOUNDATION WALL OR SLAB AT STUD OR JOIST LOCATIONS TO ENSURE A UNIFORM BEARING SURFACE ON SUPPORTING CONCRETE OR MASONRY CONSTRUCTION.
- WALL STUDS SHALL BE FIRMLY NEST IN BASE AND TOP TRACK WITH NO GAP.
- COLD-FORMED METAL FRAMING MAY BE SHOP OR FIELD FABRICATED FOR INSTALLATION, OR IT MAY BE FIELD ASSEMBLED. INSTALL COLD-FORMED METAL FRAMING ACCORDING TO AISI'S "STANDARD FOR COLD-FORMED STEEL FRAMING - GENERAL PROVISIONS" AND TO MANUFACTURER'S WRITTEN INSTRUCTIONS UNLESS MORE STRINGENT REQUIREMENTS ARE INDICATED.
- INSTALL SHOP- OR FIELD-FABRICATED, COLD-FORMED FRAMING AND SECURELY ANCHOR TO SUPPORTING STRUCTURE BY SCREW, BOLT, OR WELD WALL PANELS AT HORIZONTAL AND VERTICAL JUNCTIONS TO PRODUCE FLUSH, EVEN, TRUE-TO-LINE JOINTS WITH MAXIMUM VARIATION IN PLANE AND TRUE POSITION BETWEEN FABRICATED PANELS NOT EXCEEDING 1/16 INCH.
- INSTALL COLD-FORMED METAL FRAMING AND ACCESSORIES PLUMB, SQUARE, AND TRUE TO LINE, AND WITH CONNECTIONS SECURELY FASTENED. CUT FRAMING MEMBERS BY SAWING OR SHEARING; DO NOT TORCH CUT. FASTEN COLD-FORMED METAL FRAMING MEMBERS BY WELDING, SCREW FASTENING, CLINCH FASTENING, OR RIVETING. WIRE TYING OF FRAMING MEMBERS IS NOT PERMITTED. COMPLY WITH AWS D1.3 REQUIREMENTS AND PROCEDURES FOR WELDING, APPEARANCE AND QUALITY OF WELDS, AND METHODS USED IN CORRECTING WELDING WORK.
- LOCATE MECHANICAL FASTENERS AND INSTALL ACCORDING TO SHOP DRAWINGS, AND COMPLYING WITH REQUIREMENTS FOR SPACING, EDGE DISTANCES, AND SCREW PENETRATION. INSTALL FRAMING MEMBERS IN ONE-PIECE LENGTHS UNLESS SPLICE CONNECTIONS ARE INDICATED FOR TRACK OR TENSION MEMBERS.
- INSTALL TEMPORARY BRACING AND SUPPORTS TO SECURE FRAMING AND SUPPORT LOADS COMPARABLE IN INTENSITY TO THOSE FOR WHICH STRUCTURE WAS DESIGNED. MAINTAIN BRACES AND SUPPORTS IN PLACE, UNDISTURBED, UNTIL ENTIRE INTEGRATED SUPPORTING STRUCTURE HAS BEEN COMPLETED AND PERMANENT CONNECTIONS TO FRAMING ARE SECURED.
- DO NOT BRIDGE BUILDING EXPANSION AND CONTROL JOINTS WITH COLD-FORMED METAL FRAMING. INDEPENDENTLY FRAME BOTH SIDES OF JOINTS.
- ERECTION TOLERANCES: INSTALL COLD-FORMED METAL FRAMING LEVEL, PLUMB, AND TRUE TO LINE TO A MAXIMUM ALLOWABLE TOLERANCE VARIATION OF 1/8 INCH IN 10 FEET. SPACE INDIVIDUAL FRAMING MEMBERS NO MORE THAN PLUS OR MINUS 1/8 INCH FROM PLAN LOCATION. CUMULATIVE ERROR SHALL NOT EXCEED MINIMUM FASTENING REQUIREMENTS OF SHEATHING OR OTHER FINISHING MATERIALS.

CONNECTIONS

- PROPRIETARY HARDWARE SUCH AS THE STEEL NETWORK, CLARK DIETRICH METAL FRAMING (CD), MARKINWARE, HILTI, ETC. SHALL BE INSTALLED IN STRICT COMPLIANCE WITH THE MANUFACTURER'S REQUIREMENTS. IT IS THE INSTALLATION CONTRACTOR'S RESPONSIBILITY TO BECOME FAMILIAR WITH THE INSTALLATION REQUIREMENTS OF ALL PROPRIETARY PRODUCTS PRIOR TO CONSTRUCTION. IT SHALL BE THE RESPONSIBILITY OF OTHERS TO ENSURE HARDWARE IS PROPERLY INSTALLED.
- WHEN REQUIRED, DEFLECTION CONNECTIONS SHALL ALLOW FOR POSITIVE ATTACHMENT TO STRUCTURE AND STUD WEB USING STEP-BUSHING TECHNOLOGY TO PROVIDE FRICTIONLESS, VERTICAL MOVEMENT. CONNECTION PRODUCTS ARE REQUIRED TO HAVE A VALID ICC E5 REPORT OR EQUIVALENT COMPLYING WITH ICC ACCEPTANCE CRITERIA AC208.1. ALL STRUCTURAL FRAMING ACCESSORIES SHALL BE FORMED FROM STRUCTURAL QUALITY STEEL WITH MINIMUM YIELD STRENGTH OF 50 KSI AND HAVE MINIMUM PROTECTIVE COATING EQUAL TO ASTM A653.
- LATERAL DRIFT CLIPS ARE TO PROVIDE POSITIVE ATTACHMENT TO STRUCTURE AND STUD WEB USING STEP-BUSHING TECHNOLOGY TO PROVIDE FRICTIONLESS LATERAL AND VERTICAL MOVEMENT.
- RIGID CONNECTIONS FOR ATTACHMENT OF METAL FRAMING TO METAL FRAMING AND TO THE PRIMARY STRUCTURE SHALL BE FORMED FROM STRUCTURAL QUALITY STEEL WITH MINIMUM YIELD STRENGTH OF 50 KSI AND HAVE MINIMUM PROTECTIVE COATING EQUAL TO ASTM A653.
- DESIGN BRIDGING CLIPS TO PROVIDE ATTACHMENT TO STUD WEB AND WRAPPING AROUND THE BRIDGING CHANNEL. BRIDGING ACCESSORIES SHALL BE FORMED FROM STRUCTURAL QUALITY STEEL WITH MINIMUM YIELD STRENGTH OF 50 KSI AND HAVE MINIMUM PROTECTIVE COATING EQUAL TO ASTM A653.
- ALL WELDED CONNECTIONS ARE TO BE PERFORMED IN ACCORDANCE WITH AWS D1.3 'SPECIFICATIONS FOR WELDING SHEET STEEL IN STRUCTURES'. CONSULT AWS D19.0 'WELDING ZINC COATED STEEL' AND AISI STANDARD 249.1 FOR INFORMATION REGARDING SAFE WELDING PROCEDURES. ALL WELDS AND ABRASIONS SHALL BE CLEANED AND COATED WITH #723 ZINC/RICH METAL PRIMER BY DEGRACO, OR EQUAL.
- WELD METAL SHALL HAVE A MINIMUM YIELD STRENGTH OF 70KSI WITH AN EFFECTIVE THROAT THICKNESS EQUAL TO OR GREATER THAN THE THINNEST CONNECTED PART.
- ALL SCREWS SHALL BE OF THE DIAMETER AND SIZE INDICATED ON THE DRAWINGS, AND SHALL BE THOSE PROVIDED BY HILTI OR EQUIVALENT. A MINIMUM 1" EDGE DISTANCE AND 1" SCREW SPACING IS REQUIRED UNLESS OTHERWISE INDICATED IN THE SUBMITTAL DRAWINGS. IF THE FASTENER MANUFACTURER'S RECOMMENDATIONS INDICATE A MORE STRINGENT EDGE DISTANCE AND SPACING, THE MANUFACTURER'S RECOMMENDATIONS SHALL GOVERN. SCREW PENETRATION THROUGH JOINED MATERIALS SHALL NOT BE LESS THAN THREE EXPOSED THREADS. SELECT SCREWS WITH AN ADEQUATE CUTTING TIP TO ACCOMMODATE THE TOTAL THICKNESS TO BE DRILLED. DRILLING MUST BE COMPLETED BEFORE THE THREADS ENGAGE THE MATERIAL. WHERE SCREWS FASTEN MATERIALS OF DIFFERENT THICKNESSES, THE THINNEST MATERIAL MUST BE PENETRATED FIRST.
- POWDER ACTUATED FASTENERS INTO CONCRETE SHALL BE X-U AS MANUFACTURED BY HILTI OR EQUAL. POWDER ACTUATED FASTENERS INTO STRUCTURAL STEEL SHALL BE X-U. ALL PINS SHALL HAVE PLASTIC WASHERS. ALL PINS SHALL COMPLETELY PENETRATE STEEL SUPPORT MEMBERS AND PENETRATE CONCRETE SUPPORT MEMBERS 1/4" MINIMUM. PROVIDE PINS WITH A DIAMETER OF 0.157" INSTALLED WITH A MINIMUM EDGE DISTANCE OF 1/2" IN STEEL AND 3" IN CONCRETE WITH A MINIMUM SPACING OF 1" IN STEEL AND 4" IN CONCRETE.

STRUCTURAL STEEL

- STRUCTURAL STEEL HAS BEEN DESIGNED AND SHALL BE FABRICATED AND ERECTED IN ACCORDANCE WITH THE AISC SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS 13TH EDITION.
- ALL MATERIALS SHALL CONFORM TO THE FOLLOWING SPECIFICATIONS; LATEST EDITIONS ADOPTED BY THE KENTUCKY BUILDING CODE SHALL APPLY:

STRUCTURAL WIDE FLANGE SHAPES INCLUDING COLUMNS, BEAMS, ETC	ASTM A992
STRUCTURAL ANGLES, CHANNELS, PLATE & MISCELLANEOUS ITEMS	ASTM A36
STRUCTURAL TUBING	ASTM A500, GRADE B
STRUCTURAL BOLTS	ASTM A325-N
WELDING ELECTRODES	E70XX

- ALL BOLTED CONNECTIONS SHALL BE DESIGNED BY THE FABRICATOR IN ACCORDANCE WITH THE "SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 BOLTS" USING 3/4" INCH DIAMETER BOLTS. WASHERS SHALL BE LOAD INDICATOR TYPE OR BOLTS SHALL BE TENSION CONTROL TYPE.
- ALL WELDING SHALL BE IN ACCORDANCE WITH "THE STRUCTURAL WELDING CODE" AWS D1.1. QUALITY PROCEDURES AND PERSONNEL ACCORDING TO AWS D1.1, WELDER CERTIFICATES FOR PERSONNEL SHALL BE KEPT ON SITE IN JOB TRAILER AT ALL TIMES.
- ALL BEAM CONNECTIONS SHALL BE DESIGNED FOR 1/2 OF THE MAXIMUM UNIFORM LOAD FOR THE SIZE, SPAN, AND GRADE OF STEEL LISTED IN UNIFORM LOAD CONSTANTS TABLES FROM PART 2 OF THE AISC MANUAL (13TH EDITION) UNLESS OTHERWISE NOTED.
- ALL CONDITIONS AND DIMENSIONS PRIOR TO FABRICATION AND ERECTION OF STEEL SHALL BE VERIFIED. ANY AMBIGUITY FOUND SHALL IMMEDIATELY BE BROUGHT TO THE NOTICE OF THE ARCHITECT.
- BEFORE SHIPPING FROM THE SHOP ALL STEEL SHALL BE CLEANED. REMOVE HEAVY RUST AND MILL SCALE, SPATTER, SLAG OR FLUX DEPOSITS. COMPLY WITH STEEL STRUCTURES PAINTING COUNCIL SP-2 "HAND TOOL CLEANING" OR SP-3 "POWER TOOL CLEANING". REMOVE OIL, GREASE AND SIMILAR CONTAMINATES; COMPLY WITH SSPC SP-1 "SOLVENT CLEANING".
- ALL FIELD WELDS SHALL BE CLEANED AND PAINTED WITH PRIMER AFTER WELDING HAS BEEN INSPECTED AND APPROVED.
- ALL FERROUS METALS FOR CHILLER FRAMING SHALL BE HOT-DIP GALVANIZED AFTER FABRICATION. APPLY ZINC-COATING BY THE HOT-DIP PROCESS IN COMPLIANCE WITH THE FOLLOWING REQUIREMENT:
 - ASTM A153 FOR GALVANIZING IRON AND STEEL HARDWARE.
 - ASTM A123 FOR GALVANIZING BOTH FABRICATED AND UNFABRICATED IRON AND STEEL PRODUCTS MADE OF UNCOATED ROLLED, PRESSED, AND FORGED SHAPES, PLATES, BARS, AND STRIP 0.0299 INCH THICK AND HEAVIER.

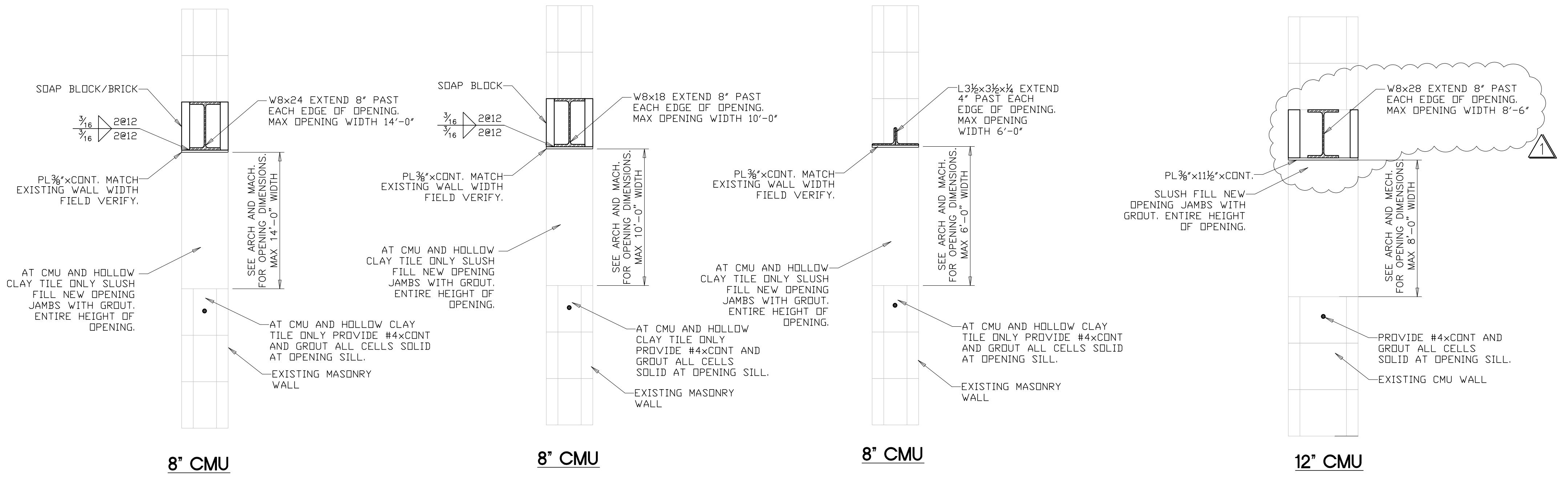
CONCRETE MASONRY CONSTRUCTION

- CONCRETE MASONRY UNITS SHALL BE GRADE N TYPE 1 HOLLOW-LOAD BEARING TYPE (LIGHT WEIGHT), AND SHALL MEET WITH THE REQUIREMENTS OF ASTM C90. (MINIMUM MASONRY UNIT STRENGTH OF F'M = 1500 PSI.) ALL CONCRETE MASONRY UNITS SHALL BE PLACED IN ACCORDANCE WITH ACI 530.
- HORIZONTAL JOINT REINFORCING SHALL CONFORM TO THE REQUIREMENTS OF ASTM A951 AND CONSIST OF W1.6 SIDE RODS AND CROSS RODS. CROSS ROD SPACING SHALL NOT EXCEED 16 INCHES. LENGTHS SHALL NOT BE LESS THAN 10FT WITH PREFABRICATED INTERSECTIONS. VERTICAL SPACING OF JOINT REINFORCEMENT SHALL NOT EXCEED 16 INCHES AND SHALL BE LOCATED 8 INCHES FROM TOP AND BOTTOM OF MASONRY FOUNDATION WALL. MINIMUM COVER SHALL BE 5/8 INCH FOR BELOW GRADE WALLS.
- MORTAR FOR CONCRETE MASONRY UNITS SHALL COMPLY WITH ASTM C270, TYPE S HAVING A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 1800 PSI.
- GROUT FOR VERTICAL CELLS AND BOND BEAMS SHALL COMPLY WITH ASTM C476 AND HAVE A MINIMUM COMPRESSIVE STRENGTH OF 2500 PSI.

GROUT MIX PROPORTIONS OF CEMENT, AGGREGATE, MINERAL FILLER, WATER AND APPROVED ADMIXTURE SHALL PROVIDE A PUMPABLE MIX THAT WILL PRODUCE A HARDENED GROUT HAVING A MINIMUM COMPRESSIVE STRENGTH OF 2500 PSI AT 28 DAYS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- MAXIMUM GROUT SLUMP SHALL BE 11"
- CONSOLIDATE GROUT BY MECHANICAL VIBRATING EQUIPMENT SUPPLEMENTED BY HAND-SPADING RODDING OR TAMPING.
- UNLESS OTHERWISE NOTED, LAP SPLICES OR EMBEDMENT LENGTHS OF REINFORCING SHALL BE AS FOLLOWS:

#4 = 24"
#5 = 30"
#6 = 36"
#7 = 42"

EMBEDMENT LENGTHS SHALL BE A MINIMUM OF 48 BAR DIA. FOR ALL LAP SPLICES AND EMBEDMENT REINFORCEMENT SHALL BE WIRE TIED IN PLACE PRIOR TO GROUTING. HOLD VERTICAL BARS IN PLACE USING METAL SUPPORTS, CENTERING CLIPS, SPACERS, TIES, OR CAGING DEVICES NEAR THE END OF EACH BAR AND AT INTERMEDIATE INTERVALS OF NOT MORE THAN 192 DIAMETERS OF THE BAR.
- NOTE: BARS SHALL NOT BE INSTALLED OR "STUCK" IN PLASTIC GROUT. ANY SUCH CONDITIONS SHALL BE GROUNDS FOR REMOVAL AND REPLACEMENT OF BLOCK/ REINFORCING.
- PROVIDE MINIMUM 1-#5 VERTICAL, GROUTED FULL HEIGHT, AT EACH SIDE OF WALL OPENINGS, WALL ENDS, AND AT EACH SIDE OF CONTROL JOINTS.
- UNLESS OTHERWISE NOTED, PROVIDE BOND BEAMS AT TOP OF CMU WALLS AND AT A VERTICAL SPACING NOT TO EXCEED 8'-0".
- THE CONTRACTOR SHALL PROVIDE ADEQUATE TEMPORARY LATERAL SUPPORT FOR ALL MASONRY WALLS DURING CONSTRUCTION.
- ALL MASONRY WALLS SHALL BE SHORED AGAINST WIND FORCES AND CONSTRUCTION LOADINGS, THESE SHORES SHALL REMAIN UNTIL ELEVATED FLOOR, ROOF AND SLAB ON GRADE ARE IN PLACE.
- MASONRY WALLS ARE NOT DESIGNED AS CANTILEVER WALLS OR AS OTHERWISE UNSUPPORTED. MASONRY WALLS ARE DESIGNED TO RESIST FINAL LOAD CONDITIONS. AS SUCH, ALL TEMPORARY BRACING OF THE WALLS DUE TO WIND LOAD, IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR. TEMPORARY BRACING SHALL REMAIN IN PLACE UNTIL MASONRY CONSTRUCTION HAS ACHIEVED 100% OF THE 28 DAY COMPRESSIVE STRENGTH AND LATERAL SUPPORT PROVIDED BY ROOF SYSTEM AND ROOF DECK IS IN PLACE.
- MASONRY UNITS SHALL BE STORED AND PROTECTED SO THAT THEY ARE MAINTAINED IN A DRY CONDITION. WET MASONRY UNITS SHALL NOT BE LAID. INSTALLED MASONRY SHALL BE COVERED AND PROTECTED UNTIL IT HAS BEEN GROUTED AND HAS ACHIEVED 2/3 OF ITS 28 DAY COMPRESSIVE STRENGTH.
- COLD WEATHER AND HOT WEATHER CONSTRUCTION REQUIREMENTS SHALL BE FOLLOWED AS REQUIRED PENDING CONSTRUCTION WEATHER CONDITIONS AND SHALL BE IN ACCORDANCE WITH ACI 530.1



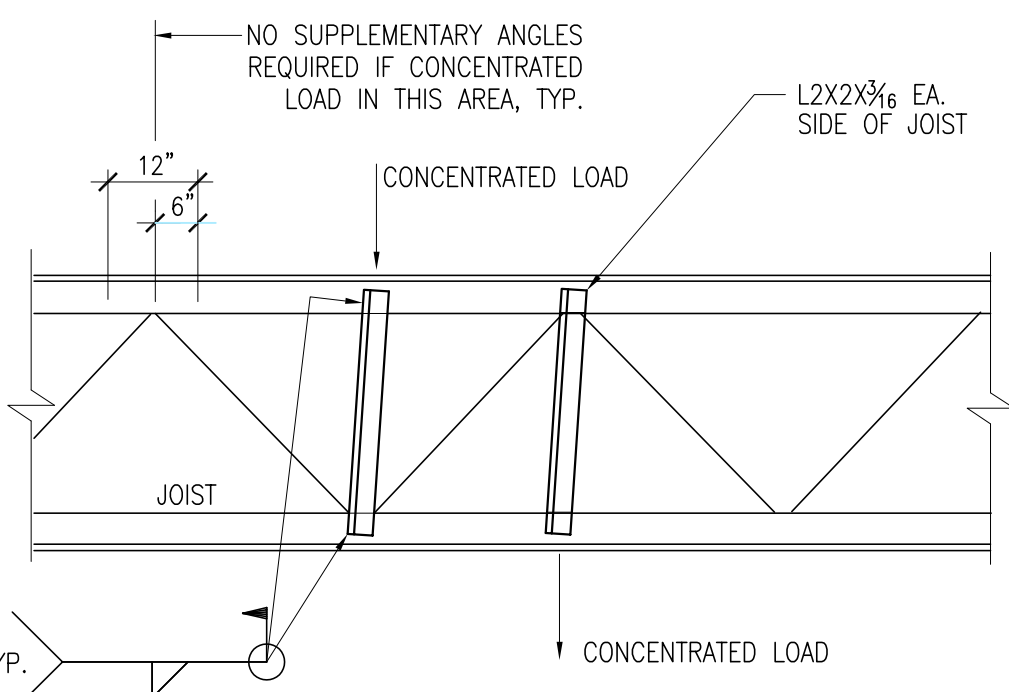
BRICK LINTEL SCHEDULE
-TYP. UNLESS DETAILED ELSEWHERE

OPENING WIDTH	ANGLE SIZE
LESS THAN 6'-0"	L4x3½x½
6'-0" TO 14'-0"	L6x3½x½

ALL LINTELS SHALL BE HOT DIPPED GALVANIZED.

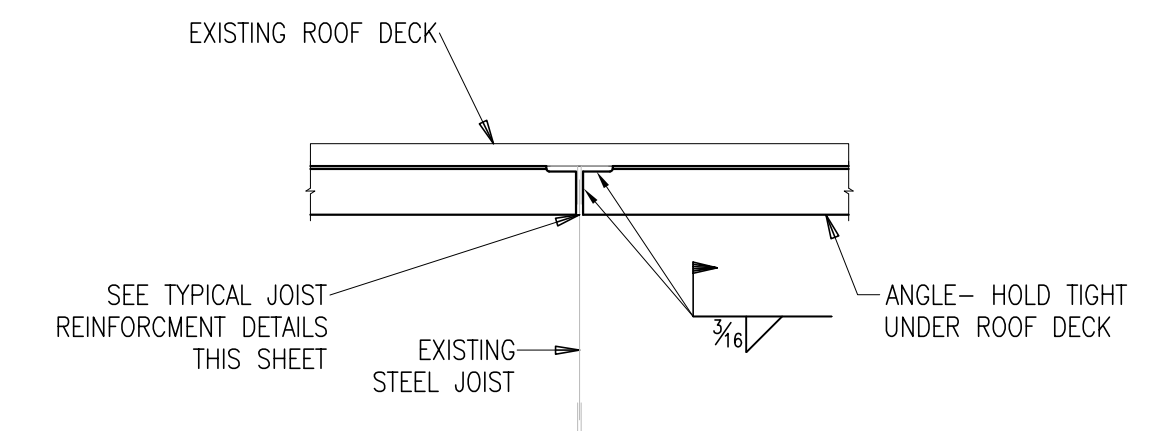
LINTEL FOR NEW OPENINGS IN EXISTING MASONRY WALLS

NO SCALE



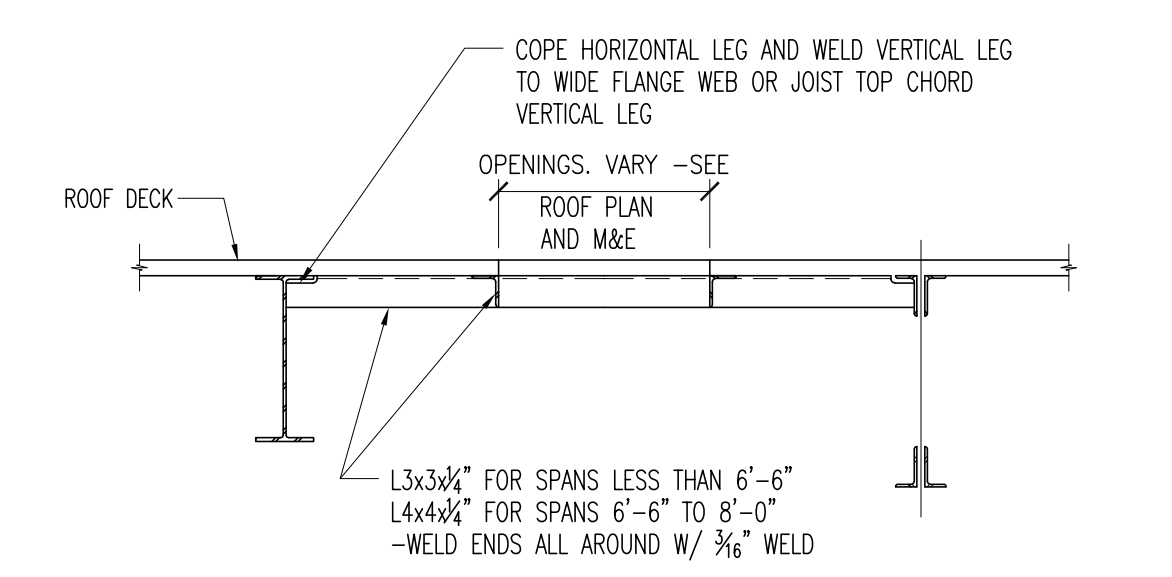
EXISTING STEEL JOIST REINFORCEMENT

SCALE: NTS



TYPICAL ANGLE CONNECTION TO EXISTING JOIST

SCALE: NTS



ANGLE FRAMES • ROOF OPENINGS

NO SCALE

General

Pulaski County Schools
Energy Savings and Performance Contract
Addendum #2
March 25th, 2022

CMTA Contact:	Megan Brangers
Email:	MBrangers@cmta.com
Cell Phone:	502-919-1521

Contents

General..... 1

Bid Addendum Items 3

Attachments..... 6

Bid Addendum Items

The following information supersedes or is in addition to information released in the Contract Documents dated March 11th, 2022 and addendum 1 dated March 18th, 2022.

Drawing Items:

Electrical Addendum Items:

1. Drawing E1-3.1A
 - a. Refer to revised drawing.
 - i. Conductor quantity updated for 3P circuits – see tag notes.
 - ii. Provide connection to condensate pump in MDF 200 as indicated.
 - iii. Toilet 005 VHP panel homerun revised.
2. Drawing E1-3.1B
 - a. Refer to revised drawing.
 - i. Provide connections to FT-1 and TCP in mechanical 009 as indicated.
 - ii. Mechanical 005 VHP panel homerun revised.
 - iii. Office 007 HHP panel homerun revised.
3. Drawing E1-3.1C
 - a. Refer to revised drawing.
 - i. Provide connections to (1) HHP-12 and (4) HHP-06 adjacent to gym as indicated.
 - ii. Provide connection to FT-1 in Storage 126.1 as indicated.
4. Drawing E1-3.2
 - a. Clarification: Refer to floorplan AC unit homerun for CU-18 circuiting.
 - b. Refer to revised drawing.
 - i. Tag Note 1 revised. Disconnects are integral to RTU/OA units.
 - ii. RTU-1/RTU-2 existing conduit/wiring to be re-used for new equipment per demo plan and revised drawing. Replace breaker as indicated.
5. Drawings E3-2.1C
 - a. Refer to revision clouds for additional Mechanical coordination
6. Drawings E3-3.2
 - a. Additional mechanical coordination and changes made, refer to revision clouds.
 - b. Tag notes revised, refer to revision clouds.

7. Drawings E4-2.1A
 - a. Refer to revised drawing.
 - i. Additional platform equipment demolition indicated.
8. Drawings E4-2.1B
 - a. Refer to revised drawing
 - i. Tag Note 5 added. Remove abandoned lights above corridor ceilings.
9. Drawings E4-2.1C
 - a. Refer to revised drawing
 - i. Tag Note 5 added. Remove abandoned lights above corridor ceilings.
 - ii. Boiler Room 140B - Remove connections to disconnects/pumps as indicated.
10. Drawings E4-2.2
 - a. Refer to revised drawing.
 - i. (3) RTU indicated with tag note 4 conduit/wiring are permitted for connection to replacement equipment as indicated. Replace breaker per new work plans.
11. Drawings E4-3.1A
 - a. Refer to revised drawing.
 - i. General Note 'I' added to plans.
 - ii. See updated tag notes - Conductor quantity updated for 2P & 3P circuits.
 - iii. Provide connection to RP-1 in office 126C as indicated per mechanical addendum.
 - iv. P-2A/B, FT-2, & EH-6 connections added to platform above gym as indicated.
12. Drawings E4-3.1B
 - a. Clarification: Contractor to field verify panels serving existing terminal (CHP) units in classrooms and replace breakers in those panels per tag note 1 as required for replacement equipment.
 - b. Refer to revised drawing.
 - i. CEF-1, RP-1 panel homerun revised.
 - ii. RR 134/146 RP-2 panel homerun revised.
 - iii. Provide connection to HHP-18 in Office 118 as indicated.
 - iv. Provide connection to RP-1 adjacent to panel KP2 as indicated.
 - v. Provide connection to HHP-12 in Kitchen 125A as incicated.
 - vi. Toilet 141A - EH-1 – Re-use existing circuit and replace breaker as required.

- vii. Provide new circuits for classroom 131 & 133 CHPs where existing panel A2 is full after new HHP connections are added. Field verify spare capacity and panel serving equipment during demolition.

13. Drawings E4-3.1C

- a. Clarification: Contractor to field verify panels serving existing terminal (CHP) units in classrooms and replace breakers in those panels per tag note 1 as required for replacement equipment.
- b. Refer to revised drawing.
 - i. Provide connections to FT-1, EH-6, & TCP in Boiler Room 140B as indicated.

14. Drawings E4-3.2

- a. Refer to revised drawing.
 - i. Conductor quantity updated for 3P circuits – refer to all revised tag notes.
 - ii. OA-1/OA-2 wire size updated.
 - iii. RTU-2B homerun panel updated.
 - iv. RTU-4 homerun tag added.
 - v. RTU-1/3/4 tag note updated – re-use existing conduit/wiring and replace breaker.
 - vi. ERV-1 homerun panel updated.
 - vii. CU-1 homerun tag updated.
 - viii. EF-4 homerun panel updated.
 - ix. Revise tag note 11 wire from #8 to #12.

Attachments

The following documents can be found in the files accompanying this addendum.

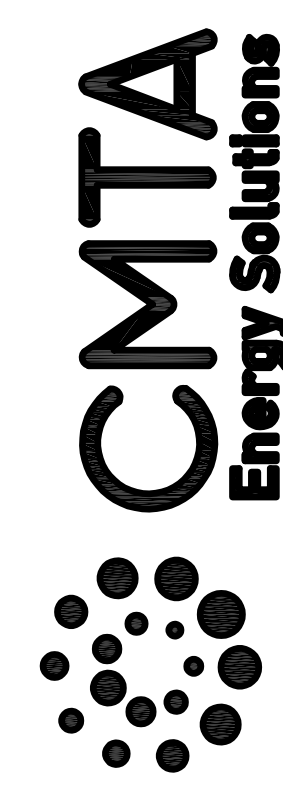
1. Geo System Upgrades_ADD2_Elec.pdf

RECEIPT OF THIS ADDENDUM MUST BE ACKNOWLEDGED ON THE BID FORM.



BID SET

9519 Civic Way, Suite 100
Prospect, KY 40059
T: 502 409-4064 F: 502 919-1521
M: brangser@cmta.com



Pulaski County Schools
GUARANTEED ENERGY SAVINGS CONTRACT
EUBANK ELEMENTARY SCHOOL
Eubank, KY

FIRST FLOOR ELECTRICAL - AREA 'A'

REVISIONS
▲ ADDENDUM #1 - 3/18/22
▲ ADDENDUM #2 - 3/25/22

DATE: 03.11.2022
DRAWN: CJ
CHECKED: OMC

SET NO.

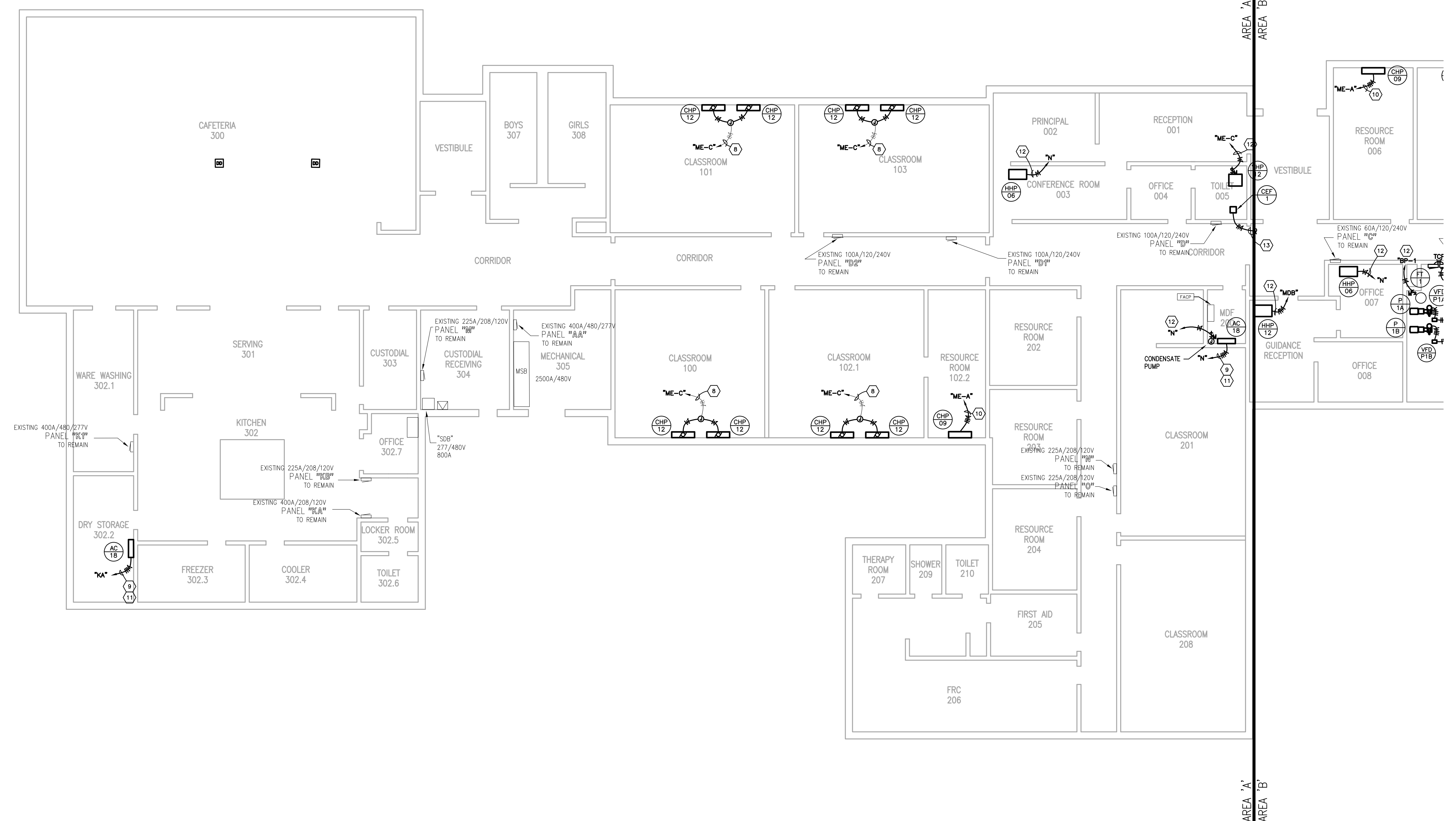
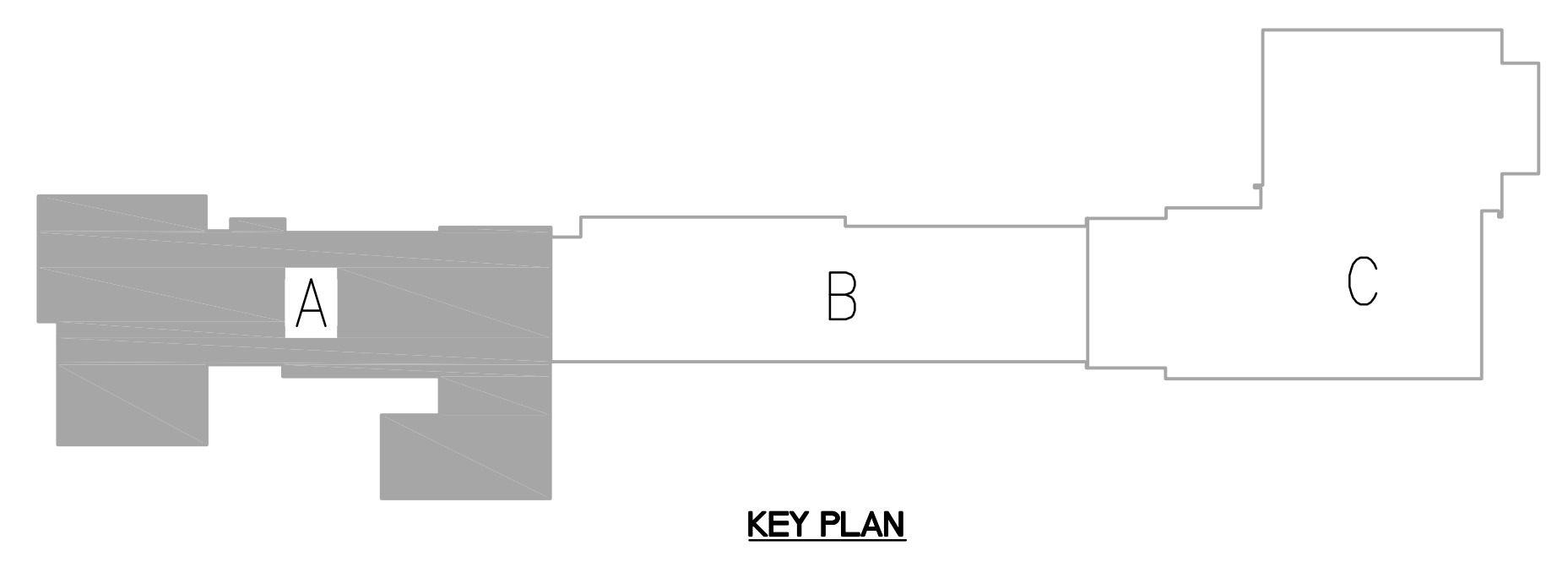
E1-
3.1A

GENERAL NEW WORK NOTES (POWER):

- A. REFER TO THE ARCHITECT'S REFLECTED CEILING PLANS, ELEVATIONS, AND CASEWORK DETAILS FOR EXACT LOCATIONS OF ALL WALL AND CEILING MOUNTED ELECTRICAL DEVICES.
- B. CONTRACTOR SHALL FOLLOW BRANCH CIRCUITING LAY-OUT, AS INDICATED ON THE FLOOR PLANS, WITH A MAXIMUM OF THREE (3) BRANCH CIRCUITS PER HOMERUN. EACH BRANCH CIRCUIT SHALL BE PROVIDED WITH A DEDICATED NEUTRAL CONDUCTOR. DEDICATED NEUTRAL CONDUCTORS SHALL BE CONSIDERED CURRENT CARRYING. IF ADDITIONAL CONDUCTORS ARE RAN IN THE SAME CONDUIT WITH THOSE INDICATED, CONTRACTOR SHALL DERATE ALL CURRENT CARRYING CONDUCTORS PER NEC 310.15(B)(3), AND UPSIZE CONDUIT AS REQUIRED PER NEC 300.17 AND ANNEX C. MULTIWIRE BRANCH CIRCUITS AS DEFINED IN NEC 100 / 210.4 (CIRCUITS SHARING A COMMON NEUTRAL CONDUCTOR) SHALL NOT BE PERMITTED.
- C. IDENTIFY THE PANEL AND CIRCUIT NUMBER FOR ALL RECEPTACLES, SWITCHES, ETC. IN AREA OF CONSTRUCTION. MARK INDEXES OF ALL DEVICE BOXES WITH PANEL AND CIRCUIT NUMBER.
- D. RECEPTACLES THAT ARE CONTROLLED BY AN AUTOMATIC MEANS SUCH AS OCCUPANCY SENSOR OR ENERGY MANAGEMENT SYSTEM SHALL BE MARKED IN ACCORDANCE WITH NEC 408.3(E).
- E. LOCATIONS OF ELECTRICAL CONNECTIONS AND LOCAL DISCONNECTS SHALL BE COORDINATED WITH MECHANICAL AND PLUMBING CONTRACTORS TO ENSURE ACCESS AND WORKING CLEARANCE IS MAINTAINED PER NEC. NOTIFY OTHER TRADES OF REQUIRED CLEARANCE AREAS TO AVOID ROUTING OF OTHER SYSTEMS IN THESE AREAS. DO NOT INSTALL ELECTRICAL EQUIPMENT OVER EQUIPMENT NAMEPLATES OR ACCESS PANELS OR THROUGH ACCESS/MAINTENANCE CLEARANCES OF EQUIPMENT BY OTHER TRADES.
- H. NO CONDUIT SHALL BE INSTALLED UNDERGROUND, EXCEPT FOR DISTRIBUTION EQUIPMENT FEEDERS, UNLESS REQUIRED FOR THE APPLICATION (FLOOR BOXES, ISLANDS, ETC.) OR SPECIFICALLY INDICATED AS SUCH IN CONSTRUCTION DOCUMENTS. NO CONDUIT SHALL BE INSTALLED WITHIN CONCRETE SLABS.

TAGGED NOTES:

- 1. EQUIPMENT INTEGRAL DISCONNECT SWITCH. COORDINATE LOCATION WITH M.C. AND EQUIPMENT SHOP DRAWINGS.
- 2. ROUTE FOUR (4) #4 CONDUCTORS AND ONE (1) #6 GROUND TO 70A/3P NEW BREAKER IN 1-1/4" CONDUIT TO ELECTRICAL DISTRIBUTION INDICATED. INTERCEPT AND EXTEND EXISTING WIRING/CONDUIT AS REQUIRED TO REPLACEMENT BREAKER. COORDINATE REQUIREMENTS WITH EXISTING CONDITIONS PRIOR TO CONSTRUCTION.
- 3. ROUTE FOUR (4) #6 CONDUCTORS AND ONE (1) #10 GROUND TO 40A/3P NEW BREAKER IN 3/4" CONDUIT TO ELECTRICAL DISTRIBUTION INDICATED. COORDINATE REQUIREMENTS WITH EXISTING CONDITIONS PRIOR TO CONSTRUCTION. FOR RTU-2, INTERCEPT AND EXTEND EXISTING WIRING/CONDUIT TO REPLACEMENT BREAKER AS REQUIRED.
- 4. ROUTE FOUR (4) #12 CONDUCTORS AND ONE (1) #2 GROUND TO 20A/2P NEW BREAKER IN 3/4" CONDUIT TO ELECTRICAL DISTRIBUTION INDICATED. COORDINATE REQUIREMENTS WITH EXISTING CONDITIONS PRIOR TO CONSTRUCTION.
- 5. ROUTE FOUR (4) #10 CONDUCTORS AND ONE (1) #10 GROUND TO 25A/3P NEW BREAKER IN 3/4" CONDUIT TO ELECTRICAL DISTRIBUTION INDICATED. COORDINATE REQUIREMENTS WITH EXISTING CONDITIONS PRIOR TO CONSTRUCTION.
- 6. ROUTE FOUR (4) #6 CONDUCTORS AND ONE (1) #10 GROUND TO 35A/3P NEW BREAKER IN 3/4" CONDUIT TO ELECTRICAL DISTRIBUTION INDICATED. COORDINATE REQUIREMENTS WITH EXISTING CONDITIONS PRIOR TO CONSTRUCTION.
- 7. ROUTE TWO (2) #10 CONDUCTORS AND ONE (1) #10 GROUND TO 20A/1P NEW BREAKER IN 3/4" CONDUIT TO PANELBOARD. COORDINATE REQUIREMENTS WITH EXISTING CONDITIONS PRIOR TO CONSTRUCTION.
- 8. INTERCEPT AND EXTEND EXISTING BRANCH CIRCUITING AND CONDUIT AS REQUIRED TO PROVIDE POWER TO NEW MECHANICAL EQUIPMENT INDICATED. ROUTE THREE (3) #12 CONDUCTORS AND ONE (1) #2 GROUND IN 3/4" CONDUIT TO NEW 15A/2P BREAKER IN PANELBOARD INDICATED. COORDINATE ALL REQUIREMENTS PRIOR TO CONSTRUCTION.
- 9. ROUTE THREE (3) #12 CONDUCTORS AND ONE (1) #2 GROUND TO 20A/2P NEW BREAKER IN 3/4" CONDUIT TO ELECTRICAL DISTRIBUTION INDICATED. COORDINATE REQUIREMENTS WITH EXISTING CONDITIONS PRIOR TO CONSTRUCTION.
- 10. ROUTE THREE (3) #12 CONDUCTORS AND ONE (1) #2 GROUND IN 3/4" CONDUIT TO NEW 15A/2P BREAKER IN PANELBOARD INDICATED. COORDINATE ALL REQUIREMENTS PRIOR TO CONSTRUCTION.
- 11. COORDINATE INTERCONNECTIONS WITH OUTDOOR UNIT AND NUMBER OF CONNECTIONS REQUIRED WITH M.C. AND EQUIPMENT SHOP DRAWINGS. PROVIDE CONDUIT/WIRING BETWEEN UNITS AS REQUIRED.
- 12. ROUTE (2) #12 CONDUCTORS AND ONE (1) #2 GROUND IN 3/4" CONDUIT TO NEW 20A/1P BREAKER TO ELECTRICAL DISTRIBUTION INDICATED. COORDINATE REQUIREMENTS WITH EXISTING CONDITIONS PRIOR TO CONSTRUCTION.
- 13. INTERCEPT AND EXTEND EXISTING BRANCH CIRCUITING AND CONDUIT AS REQUIRED TO PROVIDE POWER TO NEW MECHANICAL EQUIPMENT INDICATED. ROUTE TWO (2) #12 CONDUCTORS AND ONE (1) #2 GROUND IN 3/4" CONDUIT UTILIZING EXISTING BREAKER IN PANELBOARD INDICATED. COORDINATE ALL REQUIREMENTS PRIOR TO CONSTRUCTION.
- 14. ROUTE (4) #6 CONDUCTORS AND ONE (1) #10 GROUND TO 40A/3P NEW BREAKER IN 1" CONDUIT TO ELECTRICAL DISTRIBUTION INDICATED. COORDINATE REQUIREMENTS WITH EXISTING CONDITIONS PRIOR TO CONSTRUCTION.
- 15. ROUTE TWO (2) #14 CONDUCTORS AND ONE (1) #14 GROUND TO 15A/2P NEW BREAKER IN 3/4" CONDUIT TO ELECTRICAL DISTRIBUTION INDICATED. COORDINATE REQUIREMENTS WITH EXISTING CONDITIONS PRIOR TO CONSTRUCTION.

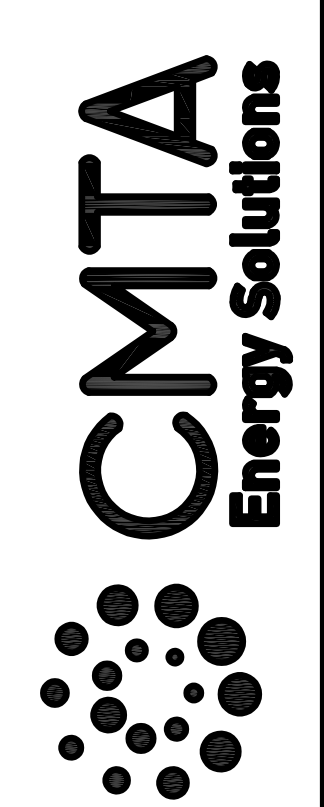


PARTIAL FIRST FLOOR PLAN (AREA A) - ELECTRICAL
SCALE: 1/8" = 1'-0"
1
E1-3.1A



BID SET

9519 Civic Way, Suite 100
Prospect, KY 40059
T: 502 409-4062, F: 502 919-1521
M: brangser@cmta.com



Pulaski County Schools
GUARANTEED ENERGY SAVINGS CONTRACT
EUBANK ELEMENTARY SCHOOL
Eubank, KY

FIRST FLOOR ELECTRICAL - AREA 'B'

REVISIONS
▲ ADDENDUM #1 - 3/18/22
▲ ADDENDUM #2 - 3/25/22

DATE: 03.11.2022
DRAWN: GJ
CHECKED: OMC

SET NO.

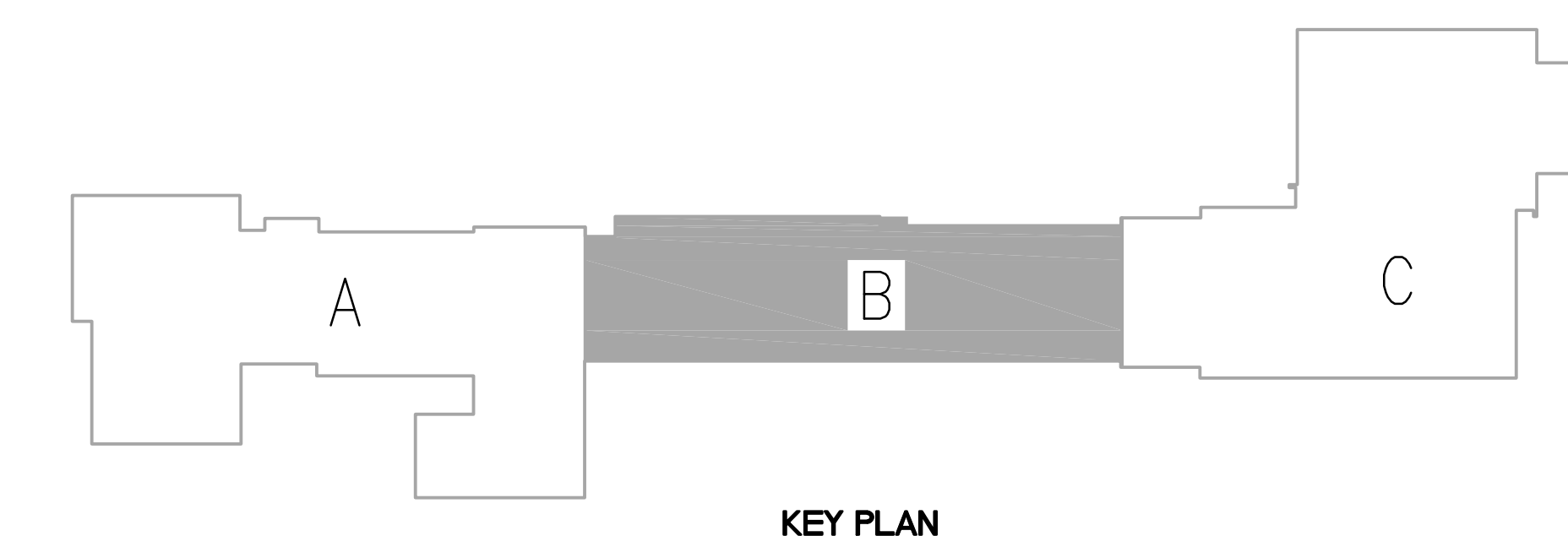
E1-3.1B

GENERAL NEW WORK NOTES (POWER):

- A. REFER TO THE ARCHITECT'S REFLECTED CEILING PLANS, ELEVATIONS, AND CASEWORK DETAILS FOR EXACT LOCATIONS OF ALL WALL AND CEILING MOUNTED ELECTRICAL DEVICES.
- B. CONTRACTOR SHALL FOLLOW BRANCH CIRCUITING LAY-OUT, AS INDICATED ON THE FLOOR PLANS, WITH A MAXIMUM OF THREE (3) BRANCH CIRCUITS PER HOMERUN. EACH BRANCH CIRCUIT SHALL BE PROVIDED WITH A DEDICATED NEUTRAL CONDUCTOR. DEDICATED NEUTRAL CONDUCTORS SHALL BE CONSIDERED CURRENT CARRYING. IF ADDITIONAL CONDUCTORS ARE RAN IN THE SAME CONDUIT WITH THOSE INDICATED, CONTRACTOR SHALL DERATE ALL CURRENT CARRYING CONDUCTORS PER NEC 310.15(B)(3), AND UPSIZE CONDUIT AS REQUIRED PER NEC 300.17 AND ANNEX C. MULTIWIRE BRANCH CIRCUITS AS DEFINED IN NEC 100 / 210.4 (CIRCUITS SHARING A COMMON NEUTRAL CONDUCTOR) SHALL NOT BE PERMITTED.
- C. IDENTIFY THE PANEL AND CIRCUIT NUMBER FOR ALL RECEPTACLES, SWITCHES, ETC. IN AREA OF CONSTRUCTION. MARK INDEXES OF ALL DEVICE BOXES WITH PANEL AND CIRCUIT NUMBER.
- D. RECEPTACLES THAT ARE CONTROLLED BY AN AUTOMATIC MEANS SUCH AS OCCUPANCY SENSOR OR ENERGY MANAGEMENT SYSTEM SHALL BE MARKED IN ACCORDANCE WITH NEC 408.3(E).
- E. LOCATIONS OF ELECTRICAL CONNECTIONS AND LOCAL DISCONNECTS SHALL BE COORDINATED WITH MECHANICAL AND PLUMBING CONTRACTORS TO ENSURE ACCESS AND WORKING CLEARANCE IS MAINTAINED PER NEC. NOTIFY OTHER TRADES OF REQUIRED CLEARANCE AREAS TO AVOID ROUTING OF OTHER SYSTEMS IN THESE AREAS. DO NOT INSTALL ELECTRICAL EQUIPMENT OVER EQUIPMENT NAMEPLATES OR ACCESS PANELS OR THROUGH ACCESS/MAINTENANCE CLEARANCES OF EQUIPMENT BY OTHER TRADES.
- H. NO CONDUIT SHALL BE INSTALLED UNDERGROUND, EXCEPT FOR DISTRIBUTION EQUIPMENT FEEDERS, UNLESS REQUIRED FOR THE APPLICATION (FLOOR BOXES, ISLANDS, ETC.) OR SPECIFICALLY INDICATED AS SUCH IN CONSTRUCTION DOCUMENTS. NO CONDUIT SHALL BE INSTALLED WITHIN CONCRETE SLABS.

TAGGED NOTES:

- 1. EQUIPMENT INTEGRAL DISCONNECT SWITCH. COORDINATE LOCATION WITH M.C. AND EQUIPMENT SHOP DRAWINGS.
- 2. ROUTE FOUR (4) #4 CONDUCTORS AND ONE (1) #8 GROUND TO 70A/3P NEW BREAKER IN 1-1/4" CONDUIT TO ELECTRICAL DISTRIBUTION INDICATED. INTERCEPT AND EXTEND EXISTING WIRING/CONDUIT AS REQUIRED TO REPLACEMENT BREAKER. COORDINATE REQUIREMENTS WITH EXISTING CONDITIONS PRIOR TO CONSTRUCTION.
- 3. ROUTE FOUR (4) #8 CONDUCTORS AND ONE (1) #10 GROUND TO 40A/3P NEW BREAKER IN 3/4" CONDUIT TO ELECTRICAL DISTRIBUTION INDICATED. COORDINATE REQUIREMENTS WITH EXISTING CONDITIONS PRIOR TO CONSTRUCTION. FOR RTU-2, INTERCEPT AND EXTEND EXISTING WIRING/CONDUIT TO REPLACEMENT BREAKER AS REQUIRED.
- 4. ROUTE FOUR (4) #12 CONDUCTORS AND ONE (1) #2 GROUND TO 20A/3P NEW BREAKER IN 3/4" CONDUIT TO ELECTRICAL DISTRIBUTION INDICATED. COORDINATE REQUIREMENTS WITH EXISTING CONDITIONS PRIOR TO CONSTRUCTION.
- 5. ROUTE FOUR (4) #10 CONDUCTORS AND ONE (1) #10 GROUND TO 25A/3P NEW BREAKER IN 3/4" CONDUIT TO ELECTRICAL DISTRIBUTION INDICATED. COORDINATE REQUIREMENTS WITH EXISTING CONDITIONS PRIOR TO CONSTRUCTION.
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- 14. ROUTE (4) #8 CONDUCTORS AND ONE (1) #10 GROUND TO 40A/3P NEW BREAKER IN 1" CONDUIT TO ELECTRICAL DISTRIBUTION INDICATED. COORDINATE REQUIREMENTS WITH EXISTING CONDITIONS PRIOR TO CONSTRUCTION.
- 15. ROUTE TWO (2) #14 CONDUCTORS AND ONE (1) #4 GROUND TO 15A/2P NEW BREAKER IN 3/4" CONDUIT TO ELECTRICAL DISTRIBUTION INDICATED. COORDINATE REQUIREMENTS WITH EXISTING CONDITIONS PRIOR TO CONSTRUCTION.



PARTIAL FIRST FLOOR PLAN (AREA B) - ELECTRICAL

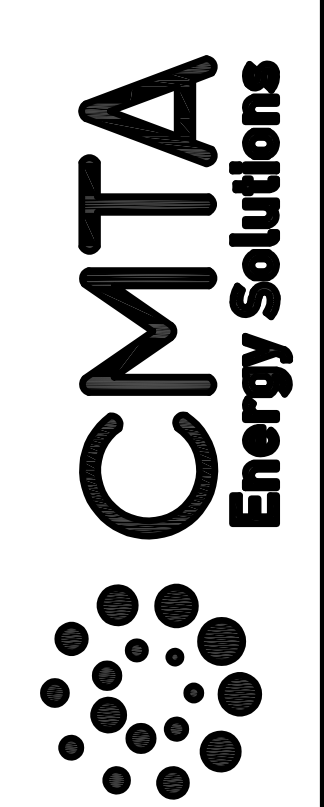
SCALE: 1/8" = 1'-0"

1
E1-3.1B



BID SET

9519 Civic Way, Suite 100
Prospect, KY 40059
T: 502 409-4062 F: 502 919-1521
M: brangerc@cmta.com



Pulaski County Schools
GUARANTEED ENERGY SAVINGS CONTRACT
EUBANK ELEMENTARY SCHOOL
Eubank, KY
FIRST FLOOR ELECTRICAL - AREA 'C'

REVISIONS
▲ ADDENDUM #1 - 3/18/22
▲ ADDENDUM #2 - 3/25/22

DATE: 03.11.2022
DRAWN: GJ
CHECKED: OMC

SET NO.

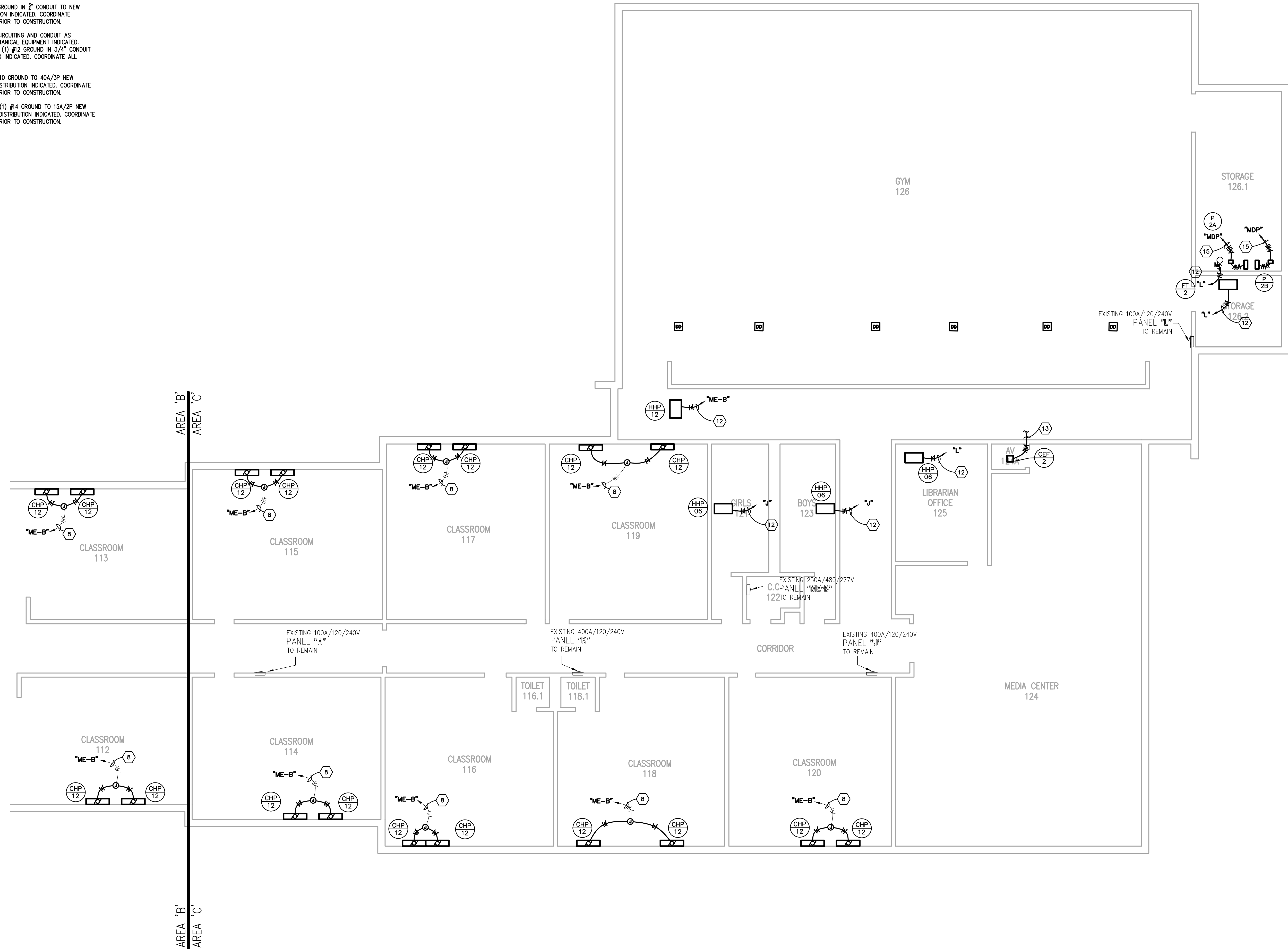
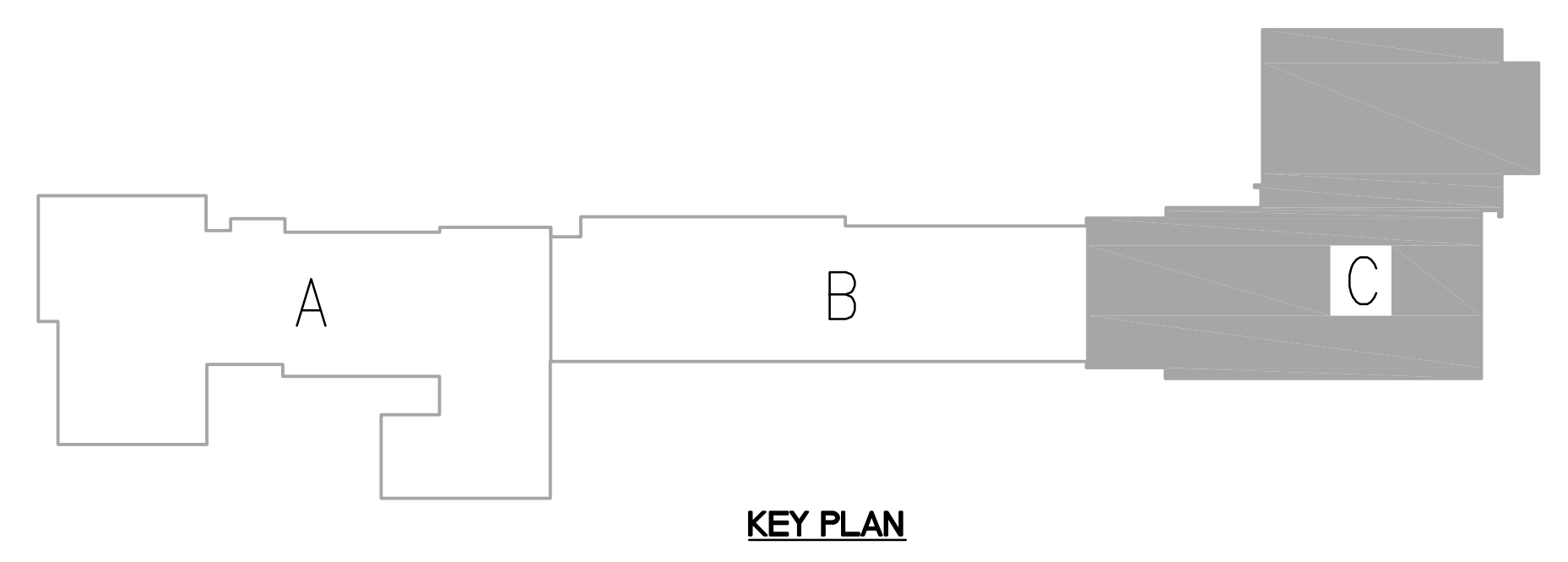
E1-
3.1C

GENERAL NEW WORK NOTES (POWER) :

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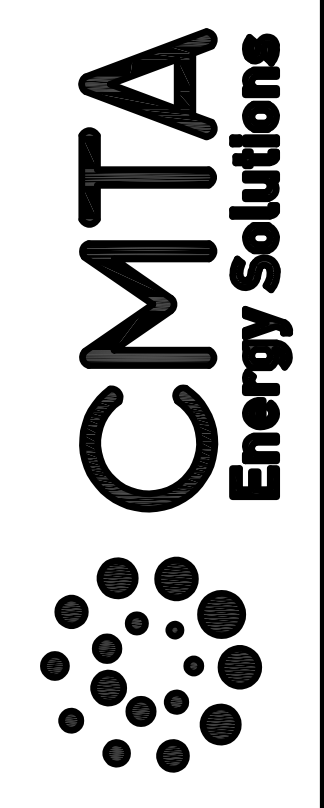
PARTIAL FIRST FLOOR PLAN (AREA C) - ELECTRICAL
SCALE: 1/8" = 1'-0"

1
E1-3.1C



BID SET

9519 Civic Way, Suite 100
Prospect, KY 40059
T: 502 409-4062, F: 502 919-1521
M: brangere@cmta.com



Pulaski County Schools
GUARANTEED ENERGY SAVINGS CONTRACT
EUBANK ELEMENTARY SCHOOL
Eubank, KY

ROOF ELECTRICAL

REVISIONS
▲ ADDENDUM #1 - 3/18/22
▲ ADDENDUM #2 - 3/25/22

DATE: 03.11.2022
DRAWN: CJ
CHECKED: OMC

SET NO.

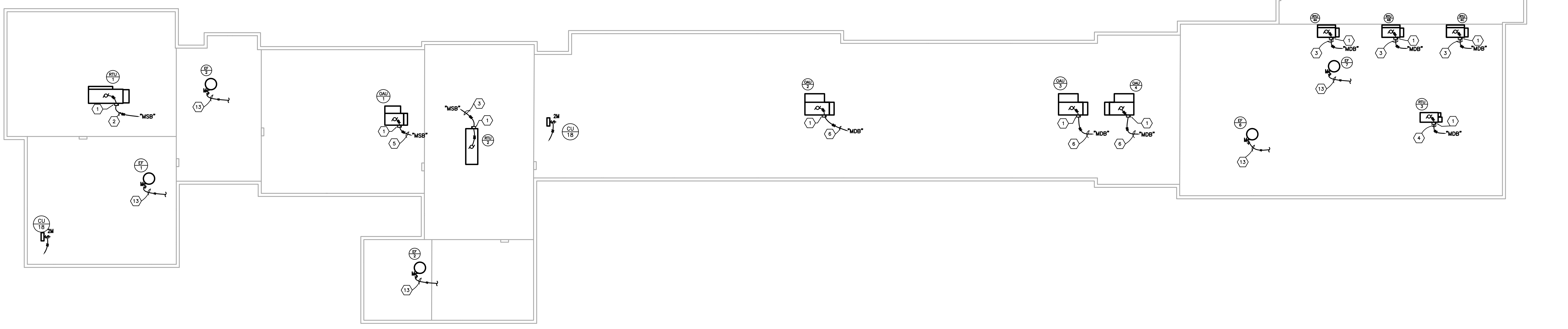
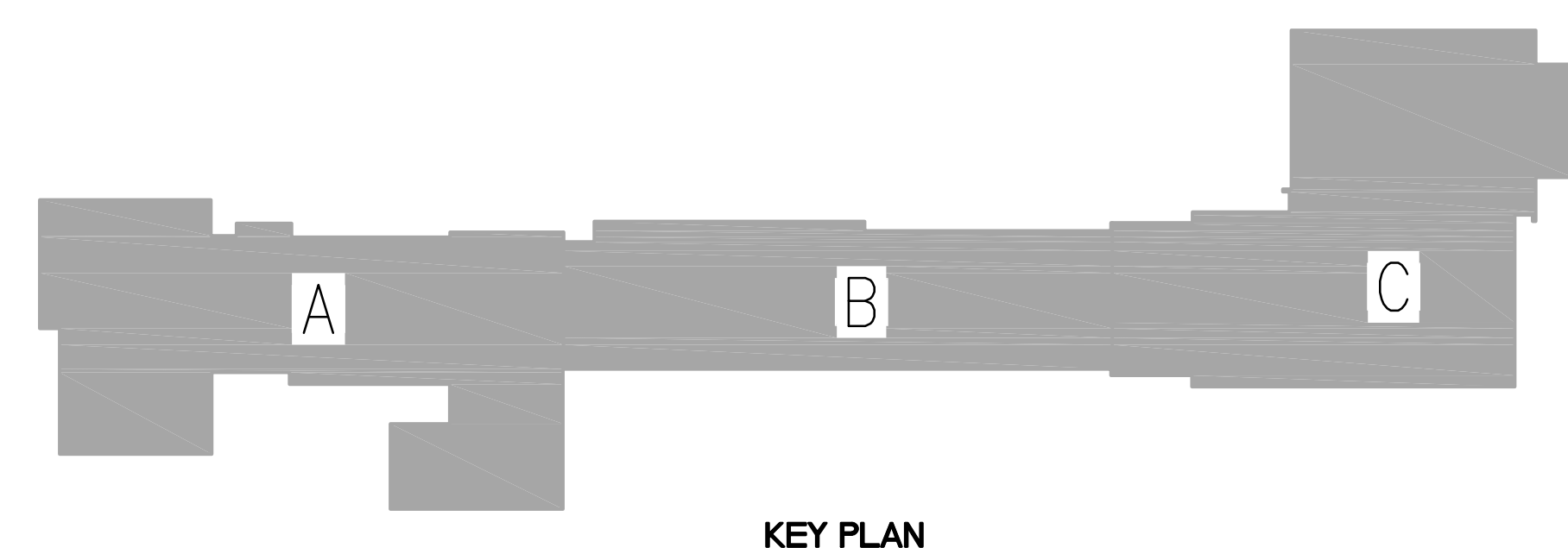
E1-3.2

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TAGGED NOTES:

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ROOF PLAN - ELECTRICAL

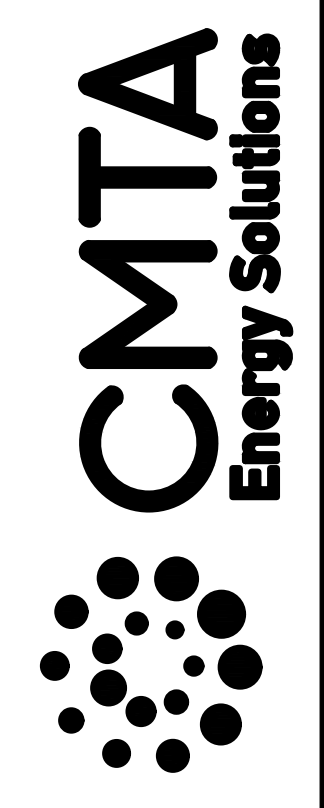
SCALE: 1/16" = 1'-0"

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E1-3.2



BID SET

9519 Civic Way, Suite 100
Prospect, KY 40059
T: 502 409-4062, F: 502 919-1521
M: brangerc@CMTA.COM



Pulaski County Schools
GUARANTEED ENERGY SAVINGS CONTRACT
Nancy ELEMENTARY SCHOOL
Nancy, KY

FIRST FLOOR ELECTRICAL DEMOLITION - AREA C

REVISIONS	
▲	ADDENDUM #1 - 3/18/22
▲	ADDENDUM #2 - 3/25/22

DATE: 03.11.2022
 DRAWN: GJ
 CHECKED: GNC

SET NO.

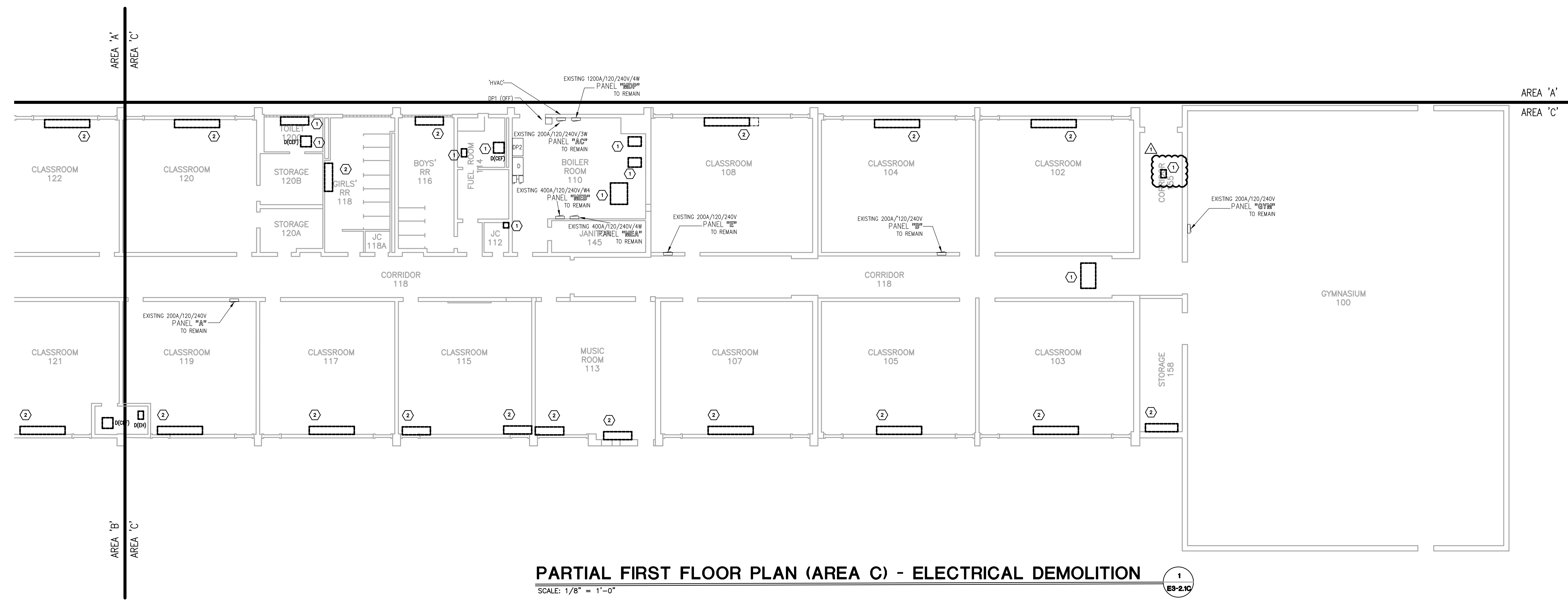
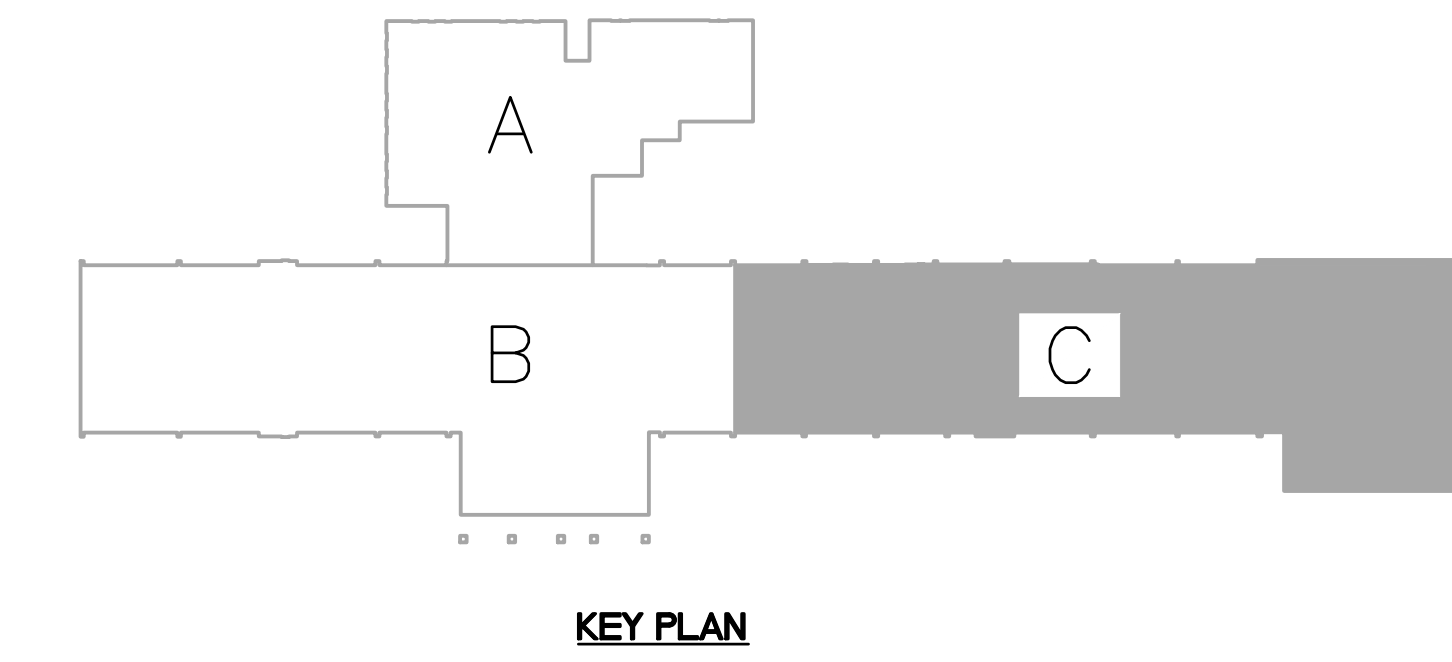
E3-2.1C

GENERAL DEMOLITION NOTES :

- A. DOTTED LINES INDICATE ITEMS FOR REMOVAL (U.O.N) AND THIN SOLID LINES INDICATE EXISTING ITEMS TO REMAIN.
- B. THE CONTRACTOR SHALL MAINTAIN THE CONTINUITY OF EXISTING CIRCUITS THAT CONTAIN DEVICES OR EQUIPMENT THAT ARE TO REMAIN. WHEN DEMOLITION OF AN ELECTRICAL DEVICE (OR CIRCUIT) IS INDICATED ON THE DRAWINGS; THE CONTRACTOR SHALL ENSURE THAT OTHER DEVICES OR EQUIPMENT "UPSTREAM" OR "DOWNSTREAM" ON THE CIRCUITS SHALL REMAIN IN "PRE-DEMOLITION" WORKING ORDER. "LEFT-OVER" CIRCUIT BREAKERS SHALL REMAIN, BE SWITCHED TO OFF POSITION, AND BE LABELED AS SPARES IN THEIR PANELS. PROVIDE NEW TYPEWRITTEN DIRECTORIES FOR ALL PANELS AFFECTED.
- C. LOCATIONS OF DEVICES, CONNECTIONS, ETC., INDICATED ON THIS DRAWING WERE TAKEN FROM VARIOUS SOURCES. THEY ARE DIAGRAMMATIC ONLY AND ARE SUBJECT TO VARIATION FROM EXISTING CONDITIONS. CERTAIN EXISTING ELEMENTS MAY NOT BE INDICATED AT ALL. THE CONTRACTOR PROPPOSING TO DO ANY PART OF THE WORK INDICATED HEREON SHALL VISIT THIS SITE AND DETERMINE TO HIS SATISFACTION THAT THEY MAY COMPLETE ALL WORK REQUIRED FOR THE BID WHICH HE PROPOSES.
- D. REMOVE ALL ASSOCIATED BACKBOXES, CONDUIT AND CONDUCTORS FOR DEVICES / FIXTURES / ETC. BEING REMOVED (BACK TO SOURCE), WHETHER INDICATED OR NOT (U.O.N). CONTRACTOR SHALL PATCH AND REPAIR ANY EXISTING WALLS, FLOORS OR CEILINGS WHERE DEVICES ARE SHOWN TO BE REMOVED (PATCH AND REPAIR TO RECEIVE NEW FINISHES - SEE ARCHITECTURAL PLANS).
- E. COORDINATE DISPOSAL OF ALL FIXTURES, DEVICES, ETC. (INDICATED FOR DEMOLITION) WITH OWNER. TURN OVER ITEMS REMOVED TO OWNER AT THEIR OPTION.
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- K. CONTRACTOR SHALL SEAL ALL EXISTING AND NEW PENETRATIONS OF BUILDING ENVELOPE (EXTERIOR WALLS, ROOF, ETC.) WATER-TIGHT AND AS APPROVED BY ARCHITECT AND ENGINEER. ROOFING SHALL BE RESTORED BY A LICENSED ROOFING CONTRACTOR BASED ON WRITTEN INSTRUCTIONS AND DETAILS FROM ROOFING MANUFACTURER AS REQUIRED TO MAINTAIN ROOF WARRANTY. REFER TO ARCHITECTURAL AND ENGINEERING PLANS AND SPECIFICATIONS FOR FURTHER REQUIREMENTS.
- L. DEVICES INDICATED WITH AN "R" SHALL BE RELOCATED, REMOVE, PROTECT, AND REINSTALL IN NEW LOCATION INDICATED ON NEW WORK PLANS. INTERCEPT AND EXTEND ALL EXISTING CABLING TO NEW LOCATION. CLEAN AND RE-LAMP RELOCATED LUMINAIRES.
- M. ALL EXISTING PANELS AFFECTED BY THIS CONTRACTOR'S WORK SHALL BE PROVIDED WITH NEW TYPE-WRITTEN PANEL DIRECTORIES AND INSERT SLEEVES. PANEL DIRECTORIES SHALL NOT USE ROOM NAMES OR NUMBERS FROM THESE DRAWINGS. DIRECTORIES SHALL BE DETAILED AND COORDINATED WITH OWNER'S SUITE NUMBERS, FINAL ROOM NUMBERS, IT RACK NAMES, WORKSTATION DESIGNATIONS, ETC. UNUSED BREAKERS SHALL BE IN OFF POSITION.
- N. ALL ABANDONED CABLING ABOVE CEILING SHALL BE REMOVED. PROVIDE NEW J-HOOK SUPPORTS FOR EXISTING UN-SUPPORTED CABLING TO REMAIN. COORDINATE WITH OWNER PRIOR TO DEMOLITION TO IDENTIFY EXISTING CABLING TO REMAIN.
- O. RELOCATE JUNCTION BOXES AND OTHER EXISTING ITEMS REQUIRING ACCESS TO ACCESSIBLE LOCATIONS WHERE NEW WORK BY ANY TRADE WOULD MAKE SUCH ITEMS INACCESSIBLE.

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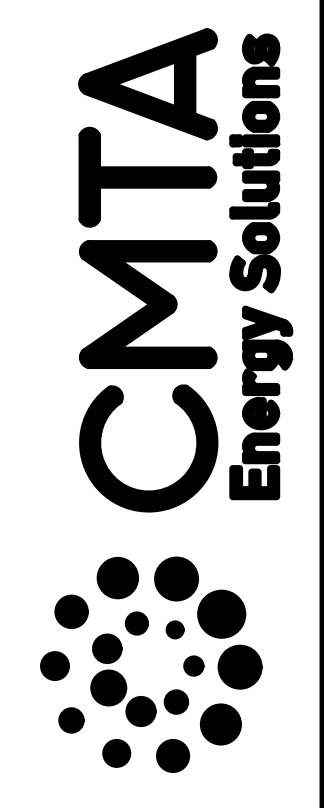
PARTIAL FIRST FLOOR PLAN (AREA C) - ELECTRICAL DEMOLITION

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E3-2.1C



BID SET

9519 Civic Way, Suite 100
Prospect, KY 40059
T: 502 4094062, F: 502 9191521
M: brangiers@cmta.com



Pulaski County Schools
GUARANTEED ENERGY SAVINGS CONTRACT
Nancy Elementary School
NANCY, KY
ROOF ELECTRICAL

REVISIONS
▲ ADDENDUM #1 - 3/18/22
▲ ADDENDUM #2 - 3/25/22

DATE: 03.11.2022
DRAWN: CJ
CHECKED: OMC

SET NO.

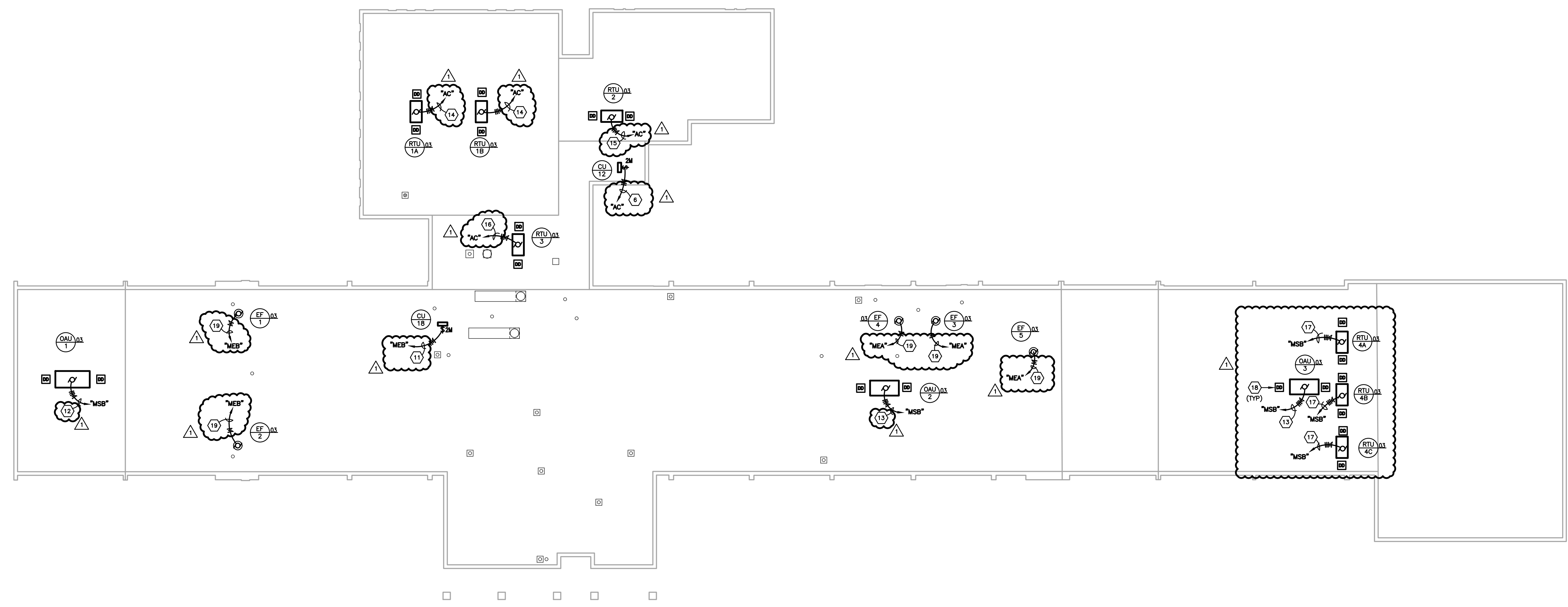
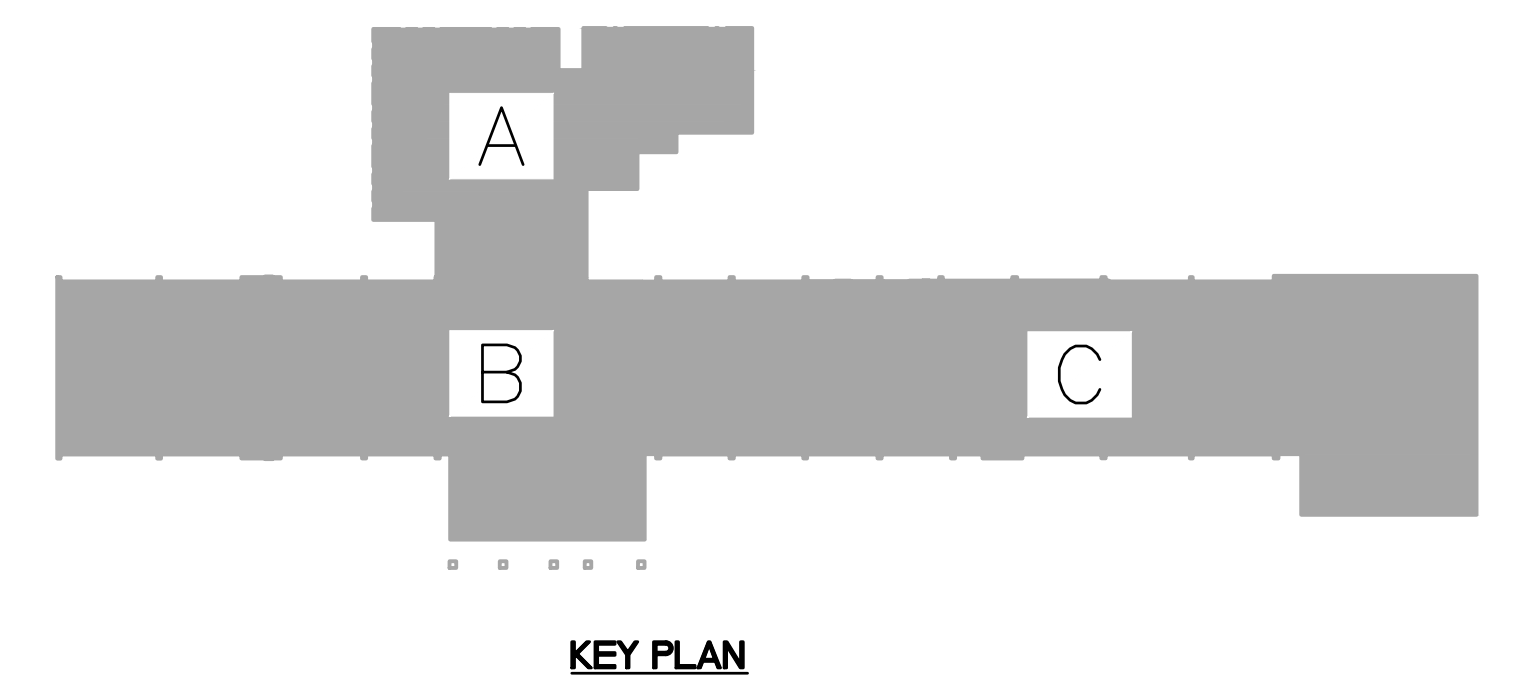
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3.2

GENERAL NEW WORK NOTES (POWER):

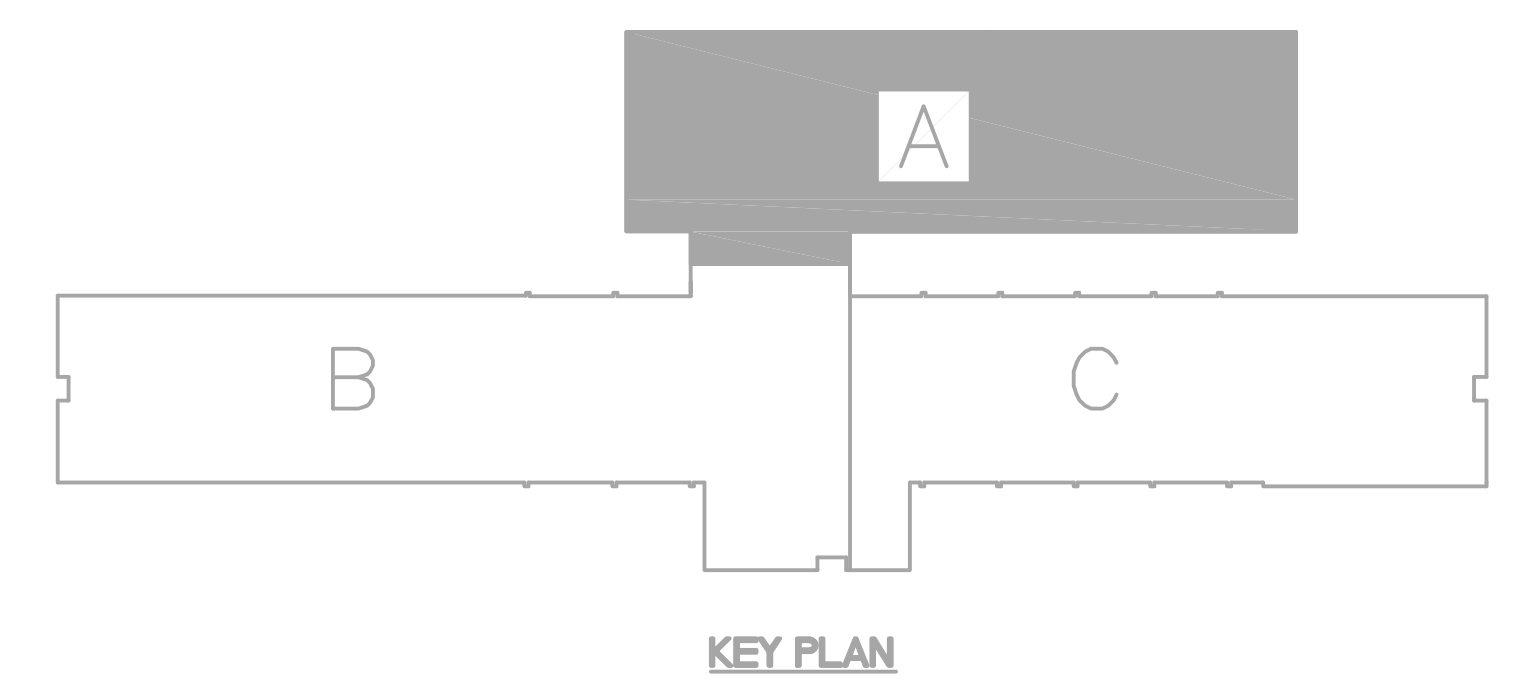
- A. REFER TO THE ARCHITECT'S REFLECTED CEILING PLANS, ELEVATIONS, AND CASEWORK DETAILS FOR EXACT LOCATIONS OF ALL WALL AND CEILING MOUNTED ELECTRICAL DEVICES.
- B. CONTRACTOR SHALL FOLLOW BRANCH CIRCUITING LAY-OUT, AS INDICATED ON THE FLOOR PLANS, WITH A MAXIMUM OF THREE (3) BRANCH CIRCUITS PER HOMERUN. EACH BRANCH CIRCUIT SHALL BE PROVIDED WITH A DEDICATED NEUTRAL CONDUCTOR. DEDICATED NEUTRAL CONDUCTORS SHALL BE CONSIDERED CURRENT CARRYING. IF ADDITIONAL CONDUCTORS ARE RAN IN THE SAME CONDUIT WITH THOSE INDICATED, CONTRACTOR SHALL DERATE ALL CURRENT CARRYING CONDUCTORS PER NEC 310.15(B)(3), AND UPSIZE CONDUIT AS REQUIRED PER NEC 300.17 AND ANNEX C. MULTIPLE BRANCH CIRCUITS AS DEFINED IN NEC 100 / 200.4 (CONDUITS SHARING A COMMON NEUTRAL CONDUCTOR) SHALL NOT BE PERMITTED.
- C. IDENTIFY THE PANEL AND CIRCUIT NUMBER FOR ALL RECEPTACLES, SWITCHES, ETC. IN AREA OF CONSTRUCTION. MARK INSIDES OF ALL DEVICE BOXES WITH PANEL AND CIRCUIT NUMBER.
- D. RECEPTACLES THAT ARE CONTROLLED BY AN AUTOMATIC MEANS SUCH AS OCCUPANCY SENSOR OR ENERGY MANAGEMENT SYSTEM SHALL BE MARKED IN ACCORDANCE WITH NEC 408.363.
- E. LOCATIONS OF ELECTRICAL CONNECTIONS AND LOCAL DISCONNECTS SHALL BE COORDINATED WITH MECHANICAL AND PLUMBING CONTRACTORS TO ENSURE ACCESS AND WORKING CLEARANCE IS MAINTAINED PER NEC. NOTIFY OTHER TRADES OF REQUIRED CLEARANCE AREAS TO AVOID ROUTING OF OTHER SYSTEMS IN THESE AREAS. DO NOT INSTALL ELECTRICAL EQUIPMENT OVER EQUIPMENT NAMEPLATES OR ACCESS PANELS OR THROUGH ACCESS/MAINTENANCE CLEARANCES OF EQUIPMENT BY OTHER TRADES.
- H. NO CONDUIT SHALL BE INSTALLED UNDERGROUND, EXCEPT FOR DISTRIBUTION EQUIPMENT FEEDERS, UNLESS REQUIRED FOR THE APPLICATION (FLOOR BOXES, ISLANDS, ETC.) OR SPECIFICALLY INDICATED AS SUCH IN CONSTRUCTION DOCUMENTS. NO CONDUIT SHALL BE INSTALLED WITHIN CONCRETE SLABS.

TAGGED NOTES:

- 1. INTERCEPT AND EXTEND EXISTING BRANCH CIRCUITING AND CONDUIT AS REQUIRED TO PROVIDE POWER TO NEW MECHANICAL EQUIPMENT INDICATED. ROUTE THREE (3) #12 CONDUCTORS AND ONE (1) #12 GROUND IN 3/4" CONDUIT TO NEW 20A/2P BREAKER IN PANELBOARD INDICATED. COORDINATE ALL REQUIREMENTS PRIOR TO CONSTRUCTION.
- 2. INTERCEPT AND EXTEND EXISTING BRANCH CIRCUITING AND CONDUIT AS REQUIRED TO PROVIDE POWER TO NEW MECHANICAL EQUIPMENT INDICATED. ROUTE THREE (3) #12 CONDUCTORS AND ONE (1) #12 GROUND IN 3/4" CONDUIT TO EXISTING 15A/2P BREAKER IN PANELBOARD INDICATED. COORDINATE ALL REQUIREMENTS PRIOR TO CONSTRUCTION.
- 3. ROUTE THREE (3) #10 CONDUCTORS AND ONE (1) #10 GROUND IN NEW 3/4" CONDUIT TO NEW 20A/2P BREAKER IN PANELBOARD INDICATED. COORDINATE ALL REQUIREMENTS PRIOR TO CONSTRUCTION.
- 4. ROUTE TWO (2) #12 CONDUCTORS AND ONE (1) #12 GROUND IN NEW 3/4" CONDUIT TO NEW 20A/1P BREAKER IN PANELBOARD INDICATED. COORDINATE ALL REQUIREMENTS PRIOR TO CONSTRUCTION.
- 5. ROUTE THREE (3) #10 CONDUCTORS AND ONE (1) #10 GROUND IN NEW 3/4" CONDUIT TO NEW 30A/2P BREAKER IN PANELBOARD INDICATED. COORDINATE ALL REQUIREMENTS PRIOR TO CONSTRUCTION.
- 6. ROUTE THREE (3) #10 CONDUCTORS AND ONE (1) #10 GROUND IN NEW 3/4" CONDUIT TO NEW 15A/2P BREAKER IN PANELBOARD INDICATED. COORDINATE ALL REQUIREMENTS PRIOR TO CONSTRUCTION.
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- 8. INDOOR UNIT POWERED FROM EXTERIOR UNIT. MATCH WIRE AND CONDUIT AS REQUIRED TO PROVIDE POWER. COORDINATE REQUIREMENTS WITH MECHANICAL CONTRACTOR PRIOR TO CONSTRUCTION.
- 9. PROVIDE POWER AND NETWORK DROP TO HVAC CONTROL PANEL. PROVIDE 120V CONNECTION AND DATA BOXES AS REQUIRED. COORDINATE EXACT REQUIREMENTS WITH MECHANICAL CONTRACTOR.
- 10. ROUTE FOUR (4) #8 CONDUCTORS AND ONE (1) #8 GROUND IN NEW 1-1/4" CONDUIT TO NEW 80A/3P BREAKER IN PANELBOARD INDICATED. COORDINATE ALL REQUIREMENTS PRIOR TO CONSTRUCTION.
- 11. ROUTE TWO (2) #8 CONDUCTORS AND ONE (1) #8 GROUND IN NEW 3/4" CONDUIT TO NEW 20A/1P BREAKER IN PANELBOARD INDICATED. COORDINATE ALL REQUIREMENTS PRIOR TO CONSTRUCTION.
- 12. ROUTE FOUR (4) #8 CONDUCTORS AND ONE (1) #8 GROUND IN NEW 1-1/4" CONDUIT TO NEW 100A/3P BREAKER IN PANELBOARD INDICATED. COORDINATE ALL REQUIREMENTS PRIOR TO CONSTRUCTION.
- 13. ROUTE FOUR (4) #8 CONDUCTORS AND ONE (1) #8 GROUND IN NEW 1-1/4" CONDUIT TO NEW 80A/3P BREAKER IN PANELBOARD INDICATED. COORDINATE ALL REQUIREMENTS PRIOR TO CONSTRUCTION.
- 14. ROUTE FOUR (4) #8 CONDUCTORS AND ONE (1) #8 GROUND IN NEW 1" CONDUIT TO NEW 80A/3P BREAKER IN PANELBOARD INDICATED. COORDINATE ALL REQUIREMENTS PRIOR TO CONSTRUCTION.
- 15. ROUTE FOUR (4) #8 CONDUCTORS AND ONE (1) #8 GROUND IN NEW 3/4" CONDUIT TO NEW 30A/2P BREAKER IN PANELBOARD INDICATED. COORDINATE ALL REQUIREMENTS PRIOR TO CONSTRUCTION.
- 16. ROUTE FOUR (4) #8 CONDUCTORS AND ONE (1) #8 GROUND IN NEW 3/4" CONDUIT TO NEW 45A/3P BREAKER IN PANELBOARD INDICATED. COORDINATE ALL REQUIREMENTS PRIOR TO CONSTRUCTION.
- 17. ROUTE FOUR (4) #10 CONDUCTORS AND ONE (1) #10 GROUND IN NEW 2" CONDUIT TO NEW 150A/3P BREAKER IN PANELBOARD INDICATED. COORDINATE ALL REQUIREMENTS PRIOR TO CONSTRUCTION.
- 18. COORDINATE MOUNTING LOCATION WITH MECHANICAL CONTRACTOR PRIOR TO CONSTRUCTION.
- 19. ROUTE TWO (2) #8 CONDUCTORS AND ONE (1) #8 GROUND IN NEW 3/4" CONDUIT TO NEW 15A/1P BREAKER IN PANELBOARD INDICATED. COORDINATE ALL REQUIREMENTS PRIOR TO CONSTRUCTION.



ROOF PLAN - ELECTRICAL
SCALE: 1/16" = 1'-0"

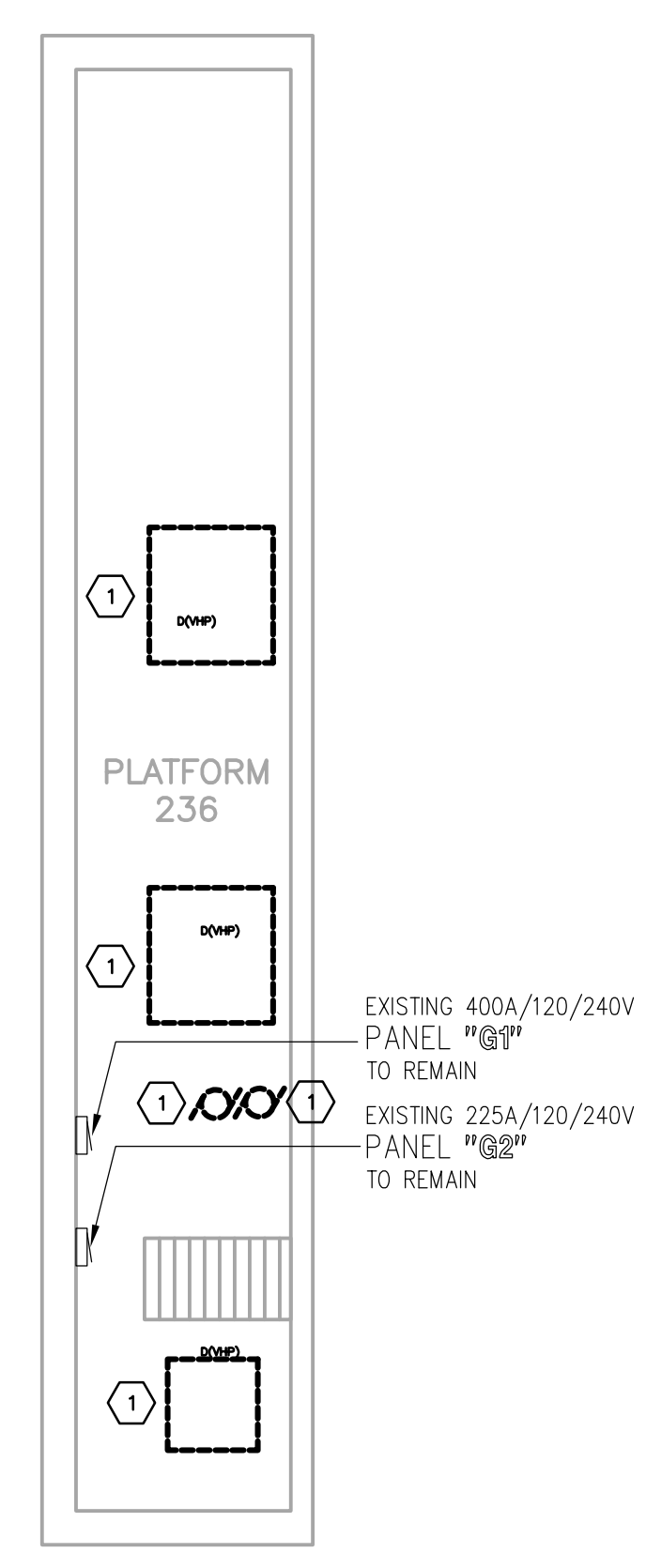


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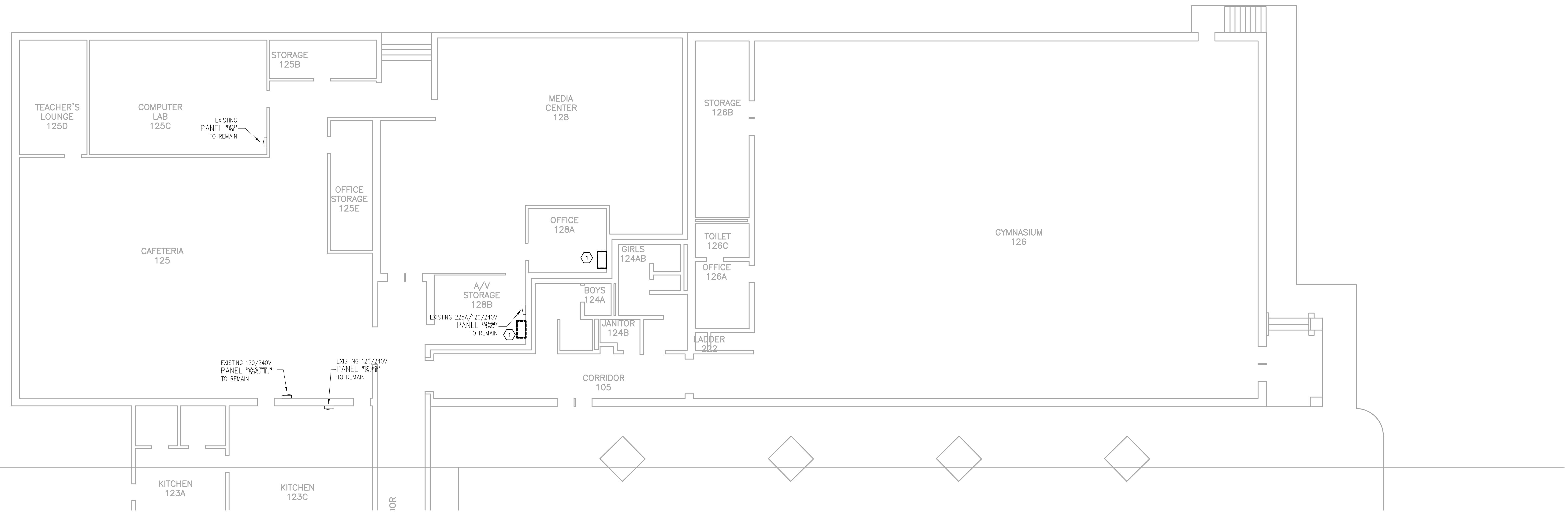
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PLATFORM ABOVE GYM - ELECTRICAL DEMOLITION

SCALE: 1/8" = 1'-0"

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E4-2.1A



PARTIAL FIRST FLOOR PLAN (AREA A) - ELECTRICAL DEMOLITION

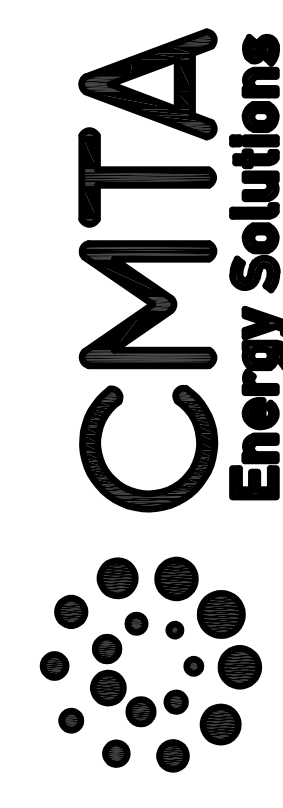
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E4-2.1A



BID SET

9519 Civic Way, Suite 100
Prospect, KY 40059
T: 502 409 4060, F: 502 919 1521
M: brangis@cmta.com



Pulaski County Schools
GUARANTEED ENERGY SAVINGS CONTRACT
SHOPVILLE ELEMENTARY SCHOOL
SOMERSET, KY

FIRST FLOOR ELECTRICAL DEMOLITION - AREA 'B'

REVISIONS
▲ ADDENDUM #1 - 3/18/22
▲ ADDENDUM #2 - 3/25/22

DATE: 03.11.2022
 DRAWN: CJ
 CHECKED: OMC

SET NO.

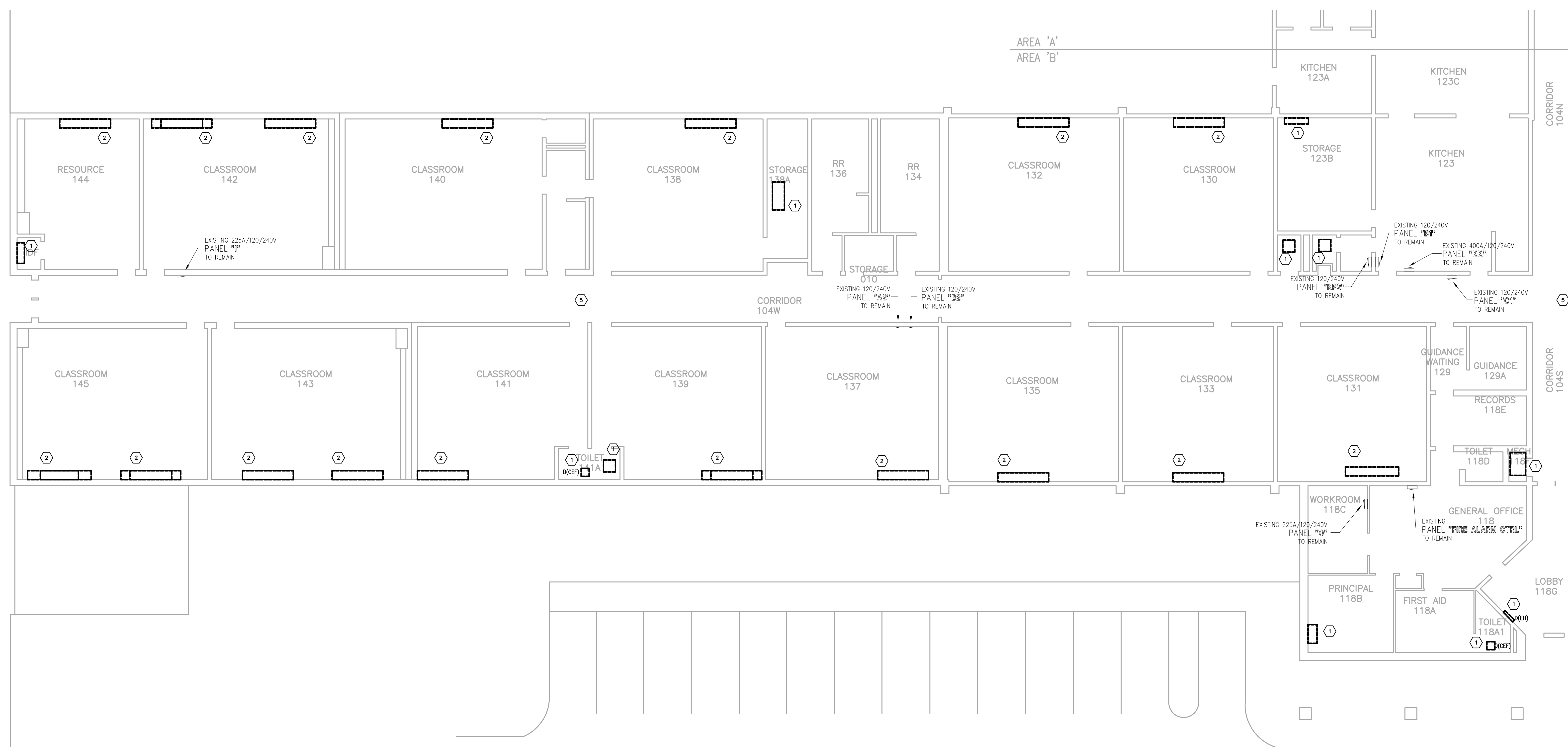
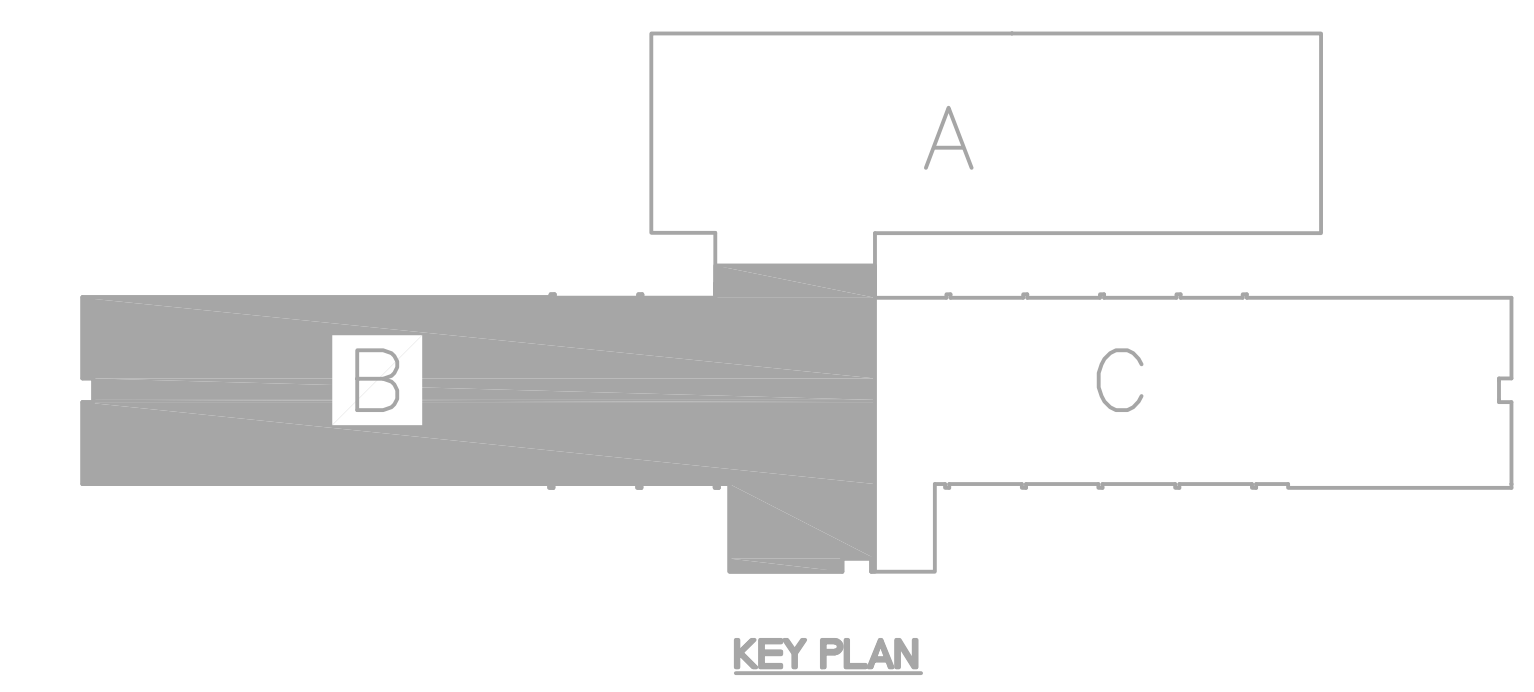
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GENERAL DEMOLITION NOTES :

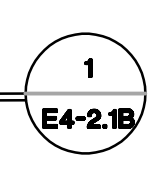
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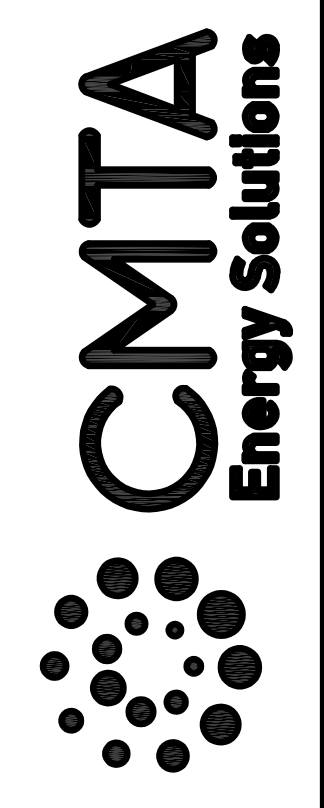
PARTIAL FIRST FLOOR PLAN (AREA B) - ELECTRICAL DEMOLITION
 SCALE: 1/8" = 1'-0"





BID SET

9519 Civic Way, Suite 100
Prospect, KY 40059
T: 502 4094060, F: 502 9191521
M: brangis@cmta.com



Pulaski County Schools
GUARANTEED ENERGY SAVINGS CONTRACT
SHOPVILLE ELEMENTARY SCHOOL
SOMERSET, KY

FIRST FLOOR ELECTRICAL DEMOLITION - AREA 'C'

REVISIONS
▲ ADDENDUM #1 - 3/18/22
▲ ADDENDUM #2 - 3/25/22

DATE: 03.11.2022
DRAWN: CJ
CHECKED: OMC

SET NO.

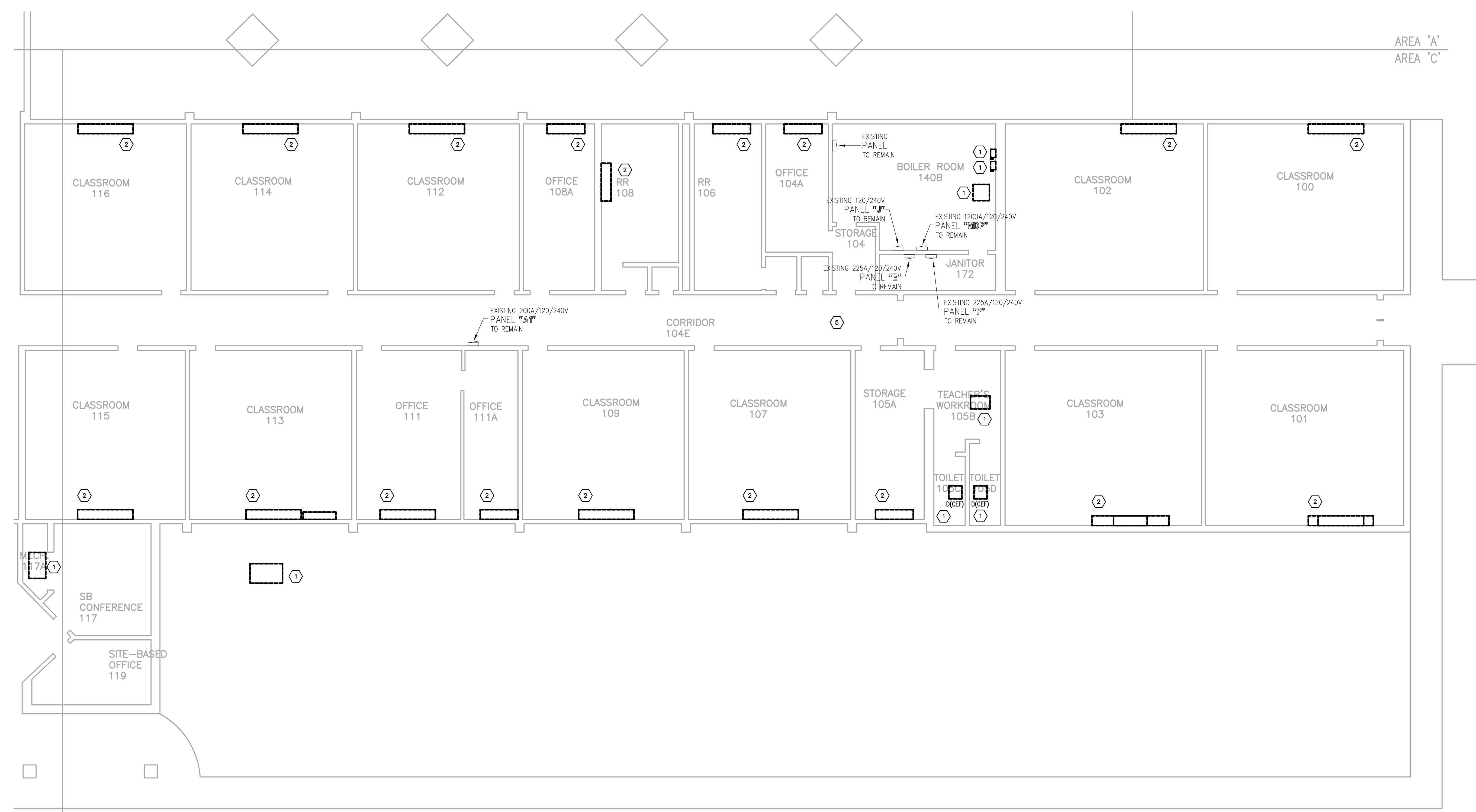
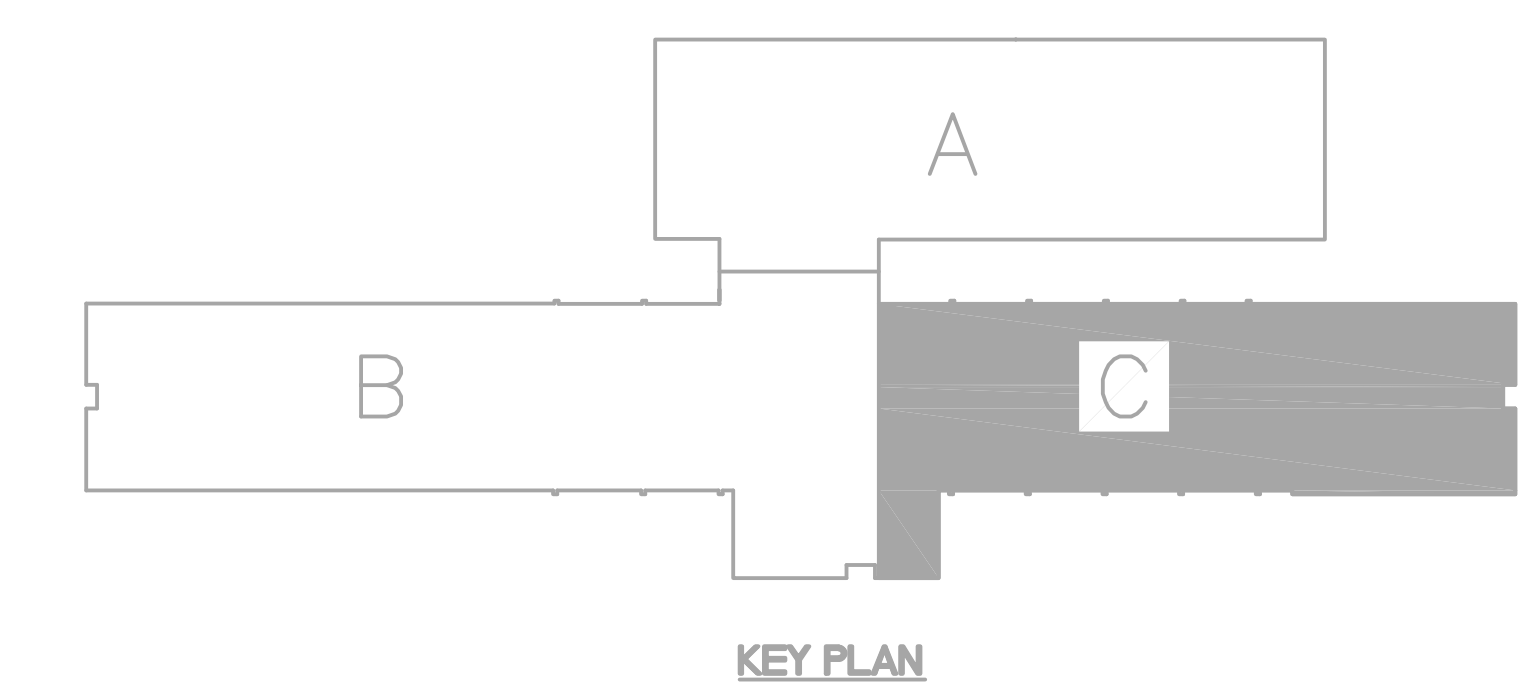
E4-2.1C

GENERAL DEMOLITION NOTES :

- DOTTED LINES INDICATE ITEMS FOR REMOVAL (U.O.N.) AND THIN SOLID LINES INDICATE EXISTING ITEMS TO REMAIN.
- THE CONTRACTOR SHALL MAINTAIN THE CONTINUITY OF EXISTING CIRCUITS THAT CONTAIN DEVICES OR EQUIPMENT THAT ARE TO REMAIN. WHEN DEMOLITION OF AN ELECTRICAL DEVICE (OR CIRCUIT) IS INDICATED ON THE DRAWINGS, THE CONTRACTOR SHALL ENSURE THAT OTHER DEVICES OR EQUIPMENT "UPSTREAM" OR "DOWNSTREAM" ON THE CIRCUITS SHALL REMAIN IN "PRE-DEMOLITION" WORKING ORDER. "LEFT-OVER" CIRCUIT BREAKERS SHALL REMAIN, BE SWITCHED TO OFF POSITION, AND BE LABELED AS SPARES IN THEIR PANELS. PROVIDE NEW TYPED DIRECTORIES FOR ALL PANELS AFFECTED.
- LOCATIONS OF DEVICES, CONNECTIONS, ETC., INDICATED ON THIS DRAWING WERE TAKEN FROM VARIOUS SOURCES. THEY ARE DIAGNOSTIC ONLY AND ARE SUBJECT TO VARIATION FROM EXISTING CONDITIONS. CERTAIN EXISTING ELEMENTS MAY NOT BE INDICATED AT ALL. THE CONTRACTOR PROPPOSING TO DO ANY PART OF THE WORK INDICATED HEREON SHALL VISIT THIS SITE AND DETERMINE TO HIS SATISFACTION THAT THEY MAY COMPLETE ALL WORK REQUIRED FOR THE BID WHICH HE PROPOSES.
- REMOVE ALL ASSOCIATED BACKBOXES, CONDUIT AND CONDUCTORS FOR DEVICES / FIXTURES / ETC. BEING REMOVED (BACK TO SOURCE), WHETHER INDICATED OR NOT (U.O.N.). CONTRACTOR SHALL PATCH AND REPAIR ANY EXISTING WALLS, FLOORS OR CEILINGS WHERE DEVICES ARE SHOWN TO BE REMOVED (PATCH AND REPAIR TO RECEIVE NEW FINISHES - SEE ARCHITECTURAL PLANS).
- COORDINATE DISPOSAL OF ALL FIXTURES, DEVICES, ETC. (INDICATED FOR DEMOLITION) WITH OWNER. TURN OVER ITEMS REMOVED TO OWNER AT THEIR OPTION.
- COORDINATE WITH OTHER TRADES FOR THE REMOVAL AND/OR RELOCATION OF ELECTRICAL DEVICES AND CONNECTIONS ASSOCIATED WITH THEIR EQUIPMENT.
- PROVIDE TEMPORARY EMERGENCY EXIT LIGHTS AT CONSTRUCTION BARRIERS AS REQUIRED.
- CONTRACTOR SHALL PATCH AND REPAIR ALL EXISTING WALLS / CEILINGS AS REQUIRED WHERE DEVICES ARE BEING REMOVED OR INSTALLED.
- UNUSED/ABANDONED CONDUCTORS DISCOVERED ABOVE ACCESSIBLE CEILINGS SHALL BE REMOVED IN ACCORDANCE WITH NEC REQUIREMENTS.
- EXISTING ELECTRICAL SYSTEMS IN CONFLICT WITH CONSTRUCTION SHALL BE RELOCATED TO PERMIT INSTALLATION OF DEVICES AND EQUIPMENT SHOWN ON PLANS.
- CONTRACTOR SHALL SEAL ALL EXISTING AND NEW PENETRATIONS OF BUILDING ENVELOPE (EXTERIOR WALLS, ROOF, ETC.) WATER-TIGHT AND AS APPROVED BY ARCHITECT AND ENGINEER. ROOFING SHALL BE RESTORED BY A LICENSED ROOFING CONTRACTOR BASED ON WRITTEN INSTRUCTIONS AND DETAILS FROM ROOFING MANUFACTURER AS REQUIRED TO MAINTAIN ROOF WARRANTY. REFER TO ARCHITECTURAL AND ENGINEERING PLANS AND SPECIFICATIONS FOR FURTHER REQUIREMENTS.
- DEVICES INDICATED WITH AN "R" SHALL BE RELOCATED. REMOVE, PROTECT, AND REINSTALL IN NEW LOCATION INDICATED ON NEW WORK PLANS. INTERCEPT AND EXTEND ALL EXISTING CABLING TO NEW LOCATION. CLEAN AND RE-LAMP RELOCATED LUMINAIRES.
- ALL EXISTING PANELS AFFECTED BY THIS CONTRACTOR'S WORK SHALL BE PROVIDED WITH NEW TYPE-WRITTEN PANEL DIRECTORIES AND INSERT SLEEVES. PANEL DIRECTORIES SHALL NOT USE ROOM NAMES OR NUMBERS FROM THESE DRAWINGS. DIRECTORIES SHALL BE RETAILED AND COORDINATED WITH OWNER'S SITE NUMBERS, FINAL ROOM NUMBERS, IT RACK NAMES, WORKSTATION DESIGNATIONS, ETC. UNUSED BREAKERS SHALL BE IN OFF POSITION.
- ALL ABANDONED CABLING ABOVE CEILING SHALL BE REMOVED. PROVIDE NEW J-HOOK SUPPORTS FOR EXISTING UN-SUPPORTED CABLING TO REMAIN. COORDINATE WITH OWNER PRIOR TO DEMOLITION TO IDENTIFY EXISTING CABLING TO REMAIN.
- RELOCATE JUNCTION BOXES AND OTHER EXISTING ITEMS REQUIRING ACCESS TO ACCESSIBLE LOCATIONS WHERE NEW WORK BY ANY TRADE WOULD MAKE SUCH ITEMS INACCESSIBLE.

TAGGED NOTES :

- MECHANICAL EQUIPMENT SHALL BE DEMOLISHED COMPLETE AS A PART OF MECHANICAL WORK. REMOVE BREAKER, BRANCH CIRCUITING, CONDUIT AND ASSOCIATED ELECTRICAL EQUIPMENT COMPLETELY BACK TO UPSTREAM PANEL.
- MECHANICAL EQUIPMENT SHALL BE DEMOLISHED AS A PART OF MECHANICAL WORK. EXISTING BRANCH CIRCUITING AND CONDUIT SHALL REMAIN. UTILIZE EXISTING BREAKER AS REQUIRED, REFER TO NEW WORK DRAWINGS FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
- MECHANICAL EQUIPMENT SHALL BE DEMOLISHED AS A PART OF MECHANICAL WORK. EXISTING CONDUIT SHALL REMAIN. UTILIZE EXISTING BREAKER AS REQUIRED, REFER TO NEW WORK DRAWINGS FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
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- CONTRACTOR TO REMOVE ALL ABANDONED LIGHTS LOCATED ABOVE CORRIDOR CEILING COMPLETE BACK TO SOURCE DURING CEILING REPLACEMENT. FIELD VERIFY EXACT LOCATIONS.

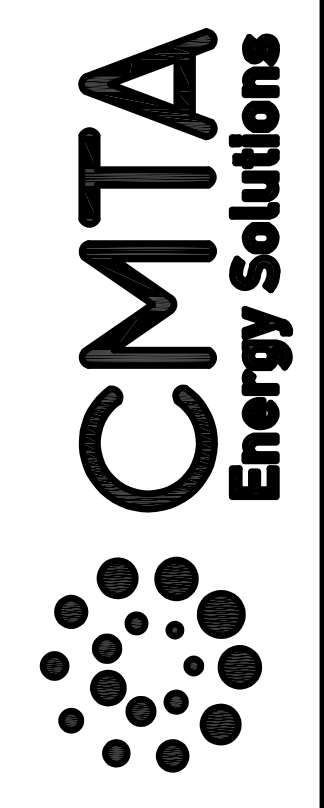


PARTIAL FIRST FLOOR PLAN (AREA C) - ELECTRICAL DEMOLITION
SCALE: 1/8" = 1'-0"



BID SET

9519 Civic Way, Suite 100
Prospect, KY 40059
T: 502 409-4060, F: 502 919-1521
M: brangere@cmta.com



Pulaski County Schools
GUARANTEED ENERGY SAVINGS CONTRACT
SHOPVILLE ELEMENTARY SCHOOL
SOMERSET, KY

ELECTRICAL DEMOLITION - ROOF PLAN

REVISIONS
▲ ADDENDUM #1 - 3/18/22
▲ ADDENDUM #2 - 3/25/22

DATE: 03.11.2022
DRAWN: CJ
CHECKED: OMC

SET NO.

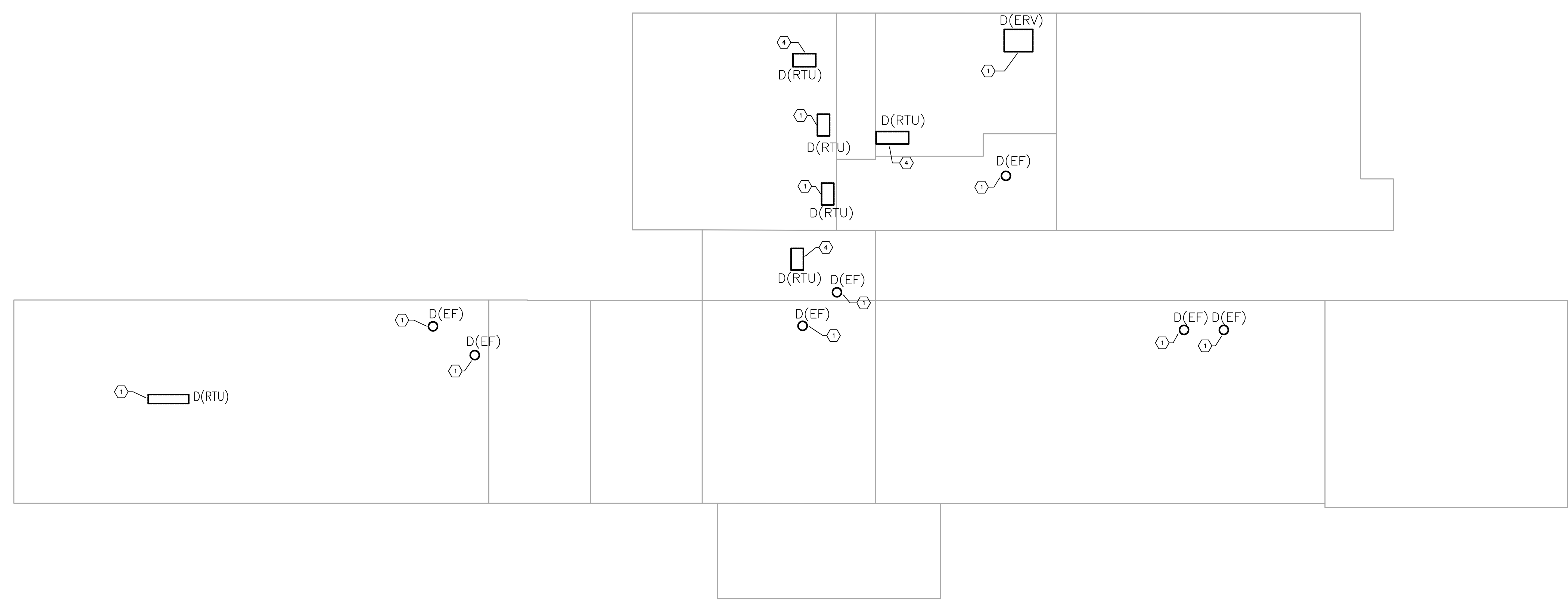
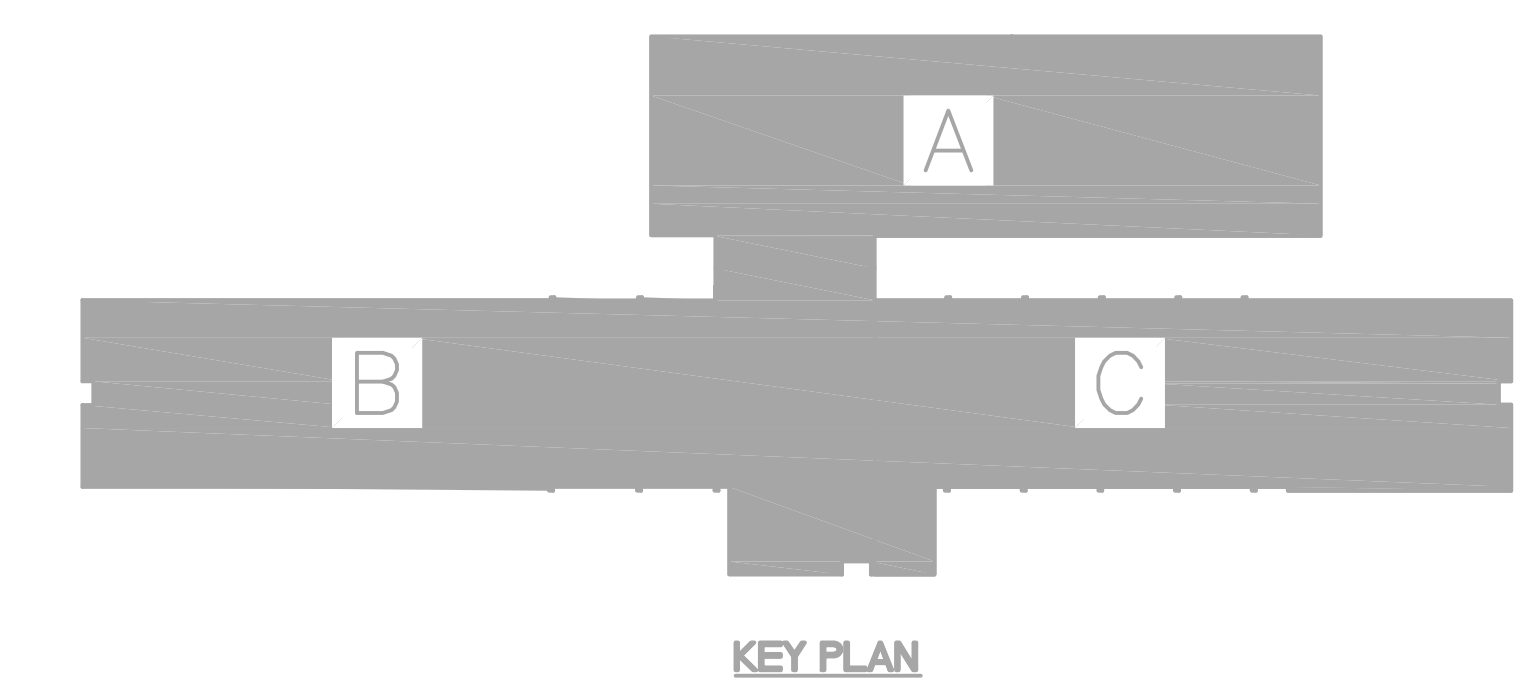
E4-
2.2

GENERAL DEMOLITION NOTES :

- A. DOTTED LINES INDICATE ITEMS FOR REMOVAL (U.O.N.) AND THIN SOLID LINES INDICATE EXISTING ITEMS TO REMAIN.
- B. THE CONTRACTOR SHALL MAINTAIN THE CONTINUITY OF EXISTING CIRCUITS THAT CONTAIN DEVICES OR EQUIPMENT THAT ARE TO REMAIN. WHEN DEMOLITION OF AN ELECTRICAL DEVICE (OR CIRCUIT) IS INDICATED ON THE DRAWINGS, THE CONTRACTOR SHALL ENSURE THAT OTHER DEVICES OR EQUIPMENT "UPSTREAM" OR "DOWNSTREAM" ON THE CIRCUITS SHALL REMAIN IN "PRE-DEMOLITION" WORKING ORDER. "LEFT-OVER" CIRCUIT BREAKERS SHALL REMAIN, BE SWITCHED TO OFF POSITION, AND BE LABELED AS SPARES IN THEIR PANELS. PROVIDE NEW TYPED DIRECTORIES FOR ALL PANELS AFFECTED.
- C. LOCATIONS OF DEVICES, CONNECTIONS, ETC., INDICATED ON THIS DRAWING WERE TAKEN FROM VARIOUS SOURCES. THEY ARE DIAGNOSTIC ONLY AND ARE SUBJECT TO VARIATION FROM EXISTING CONDITIONS. CERTAIN EXISTING ELEMENTS MAY NOT BE INDICATED AT ALL. THE CONTRACTOR PROPPOSING TO DO ANY PART OF THE WORK INDICATED HEREON SHALL VISIT THIS SITE AND DETERMINE TO HIS SATISFACTION THAT THEY MAY COMPLETE ALL WORK REQUIRED FOR THE BID WHICH HE PROPOSES.
- D. REMOVE ALL ASSOCIATED BACKBOXES, CONDUIT AND CONDUCTORS FOR DEVICES / FIXTURES / ETC. BEING REMOVED (BACK TO SOURCE), WHETHER INDICATED OR NOT (U.O.N.). CONTRACTOR SHALL PATCH AND REPAIR ANY EXISTING WALLS, FLOORS OR CEILINGS WHERE DEVICES ARE SHOWN TO BE REMOVED (PATCH AND REPAIR TO RECEIVE NEW FINISHES - SEE ARCHITECTURAL PLANS).
- E. COORDINATE DISPOSAL OF ALL FIXTURES, DEVICES, ETC. (INDICATED FOR DEMOLITION) WITH OWNER. TURN OVER ITEMS REMOVED TO OWNER AT THEIR OPTION.
- F. COORDINATE WITH OTHER TRADES FOR THE REMOVAL AND/OR RELOCATION OF ELECTRICAL DEVICES AND CONNECTIONS ASSOCIATED WITH THEIR EQUIPMENT.
- G. PROVIDE TEMPORARY EMERGENCY EXIT LIGHTS AT CONSTRUCTION BARRIERS AS REQUIRED.
- H. CONTRACTOR SHALL PATCH AND REPAIR ALL EXISTING WALLS / CEILINGS AS REQUIRED WHERE DEVICES ARE BEING REMOVED OR INSTALLED.
- I. UNUSED/ABANDONED CONDUCTORS DISCOVERED ABOVE ACCESSIBLE CEILINGS SHALL BE REMOVED IN ACCORDANCE WITH NEC REQUIREMENTS.
- J. EXISTING ELECTRICAL SYSTEMS IN CONFLICT WITH CONSTRUCTION SHALL BE RELOCATED TO PERMIT INSTALLATION OF DEVICES AND EQUIPMENT SHOWN ON PLANS.
- K. CONTRACTOR SHALL SEAL ALL EXISTING AND NEW PENETRATIONS OF BUILDING ENVELOPE (EXTERIOR WALLS, ROOF, ETC.) WATER-TIGHT AND AS APPROVED BY ARCHITECT AND ENGINEER. ROOFING SHALL BE RESTORED BY A LICENSED ROOFING CONTRACTOR BASED ON WRITTEN INSTRUCTIONS AND DETAILS FROM ROOFING MANUFACTURER AS REQUIRED TO MAINTAIN ROOF WARRANTY. REFER TO ARCHITECTURAL AND ENGINEERING PLANS AND SPECIFICATIONS FOR FURTHER REQUIREMENTS.
- L. DEVICES INDICATED WITH AN "R" SHALL BE RELOCATED. REMOVE, PROTECT, AND REINSTALL IN NEW LOCATION INDICATED ON NEW WORK PLANS. INTERCEPT AND EXTEND ALL EXISTING CABLING TO NEW LOCATION. CLEAN AND RE-LAMP RELOCATED LUMINAIRES.
- M. ALL EXISTING PANELS AFFECTED BY THIS CONTRACTOR'S WORK SHALL BE PROVIDED WITH NEW TYPED-WRITTEN PANEL DIRECTORIES AND INSERT SLEEVES. PANEL DIRECTORIES SHALL NOT USE ROOM NAMES OR NUMBERS FROM THESE DRAWINGS. DIRECTORIES SHALL BE RETAILED AND COORDINATED WITH OWNER'S SUITE NUMBERS, FINAL ROOM NUMBERS, IT RACK NAMES, WORKSTATION DESIGNATIONS, ETC. UNUSED BREAKERS SHALL BE IN OFF POSITION.
- N. ALL ABANDONED CABLING ABOVE CEILING SHALL BE REMOVED. PROVIDE NEW J-HOOK SUPPORTS FOR EXISTING UN-SUPPORTED CABLING TO REMAIN. COORDINATE WITH OWNER PRIOR TO DEMOLITION TO IDENTIFY EXISTING CABLING TO REMAIN.
- O. RELOCATE JUNCTION BOXES AND OTHER EXISTING ITEMS REQUIRING ACCESS TO ACCESSIBLE LOCATIONS WHERE NEW WORK BY ANY TRADE WOULD MAKE SUCH ITEMS INACCESSIBLE.

TAGGED NOTES :

- 1. MECHANICAL EQUIPMENT SHALL BE DEMOLISHED COMPLETE AS A PART OF MECHANICAL WORK. REMOVE BREAKER, BRANCH CIRCUITING, CONDUIT AND ASSOCIATED ELECTRICAL EQUIPMENT COMPLETELY BACK TO UPSTREAM PANEL.
- 2. MECHANICAL EQUIPMENT SHALL BE DEMOLISHED AS A PART OF MECHANICAL WORK. EXISTING BRANCH CIRCUITING AND CONDUIT SHALL REMAIN. UTILIZE EXISTING BREAKER AS REQUIRED, REFER TO NEW WORK DRAWINGS FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
- 3. MECHANICAL EQUIPMENT SHALL BE DEMOLISHED AS A PART OF MECHANICAL WORK. EXISTING CONDUIT SHALL REMAIN. UTILIZE EXISTING BREAKER AS REQUIRED, REFER TO NEW WORK DRAWINGS FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
- 4. MECHANICAL EQUIPMENT SHALL BE DEMOLISHED AS A PART OF MECHANICAL WORK. EXISTING BRANCH CIRCUITING AND CONDUIT SHALL REMAIN. EXISTING BREAKER TO BE REPLACED AS REQUIRED PER EQUIPMENT MANUFACTURERS LISTED MOP. REFER TO NEW WORK DRAWINGS FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
- 5. CONTRACTOR TO REMOVE ALL ABANDONED LIGHTS LOCATED ABOVE CORRIDOR CEILING COMPLETE BACK TO SOURCE DURING CEILING REPLACEMENT. FIELD VERIFY EXACT LOCATIONS.



ROOF PLAN - ELECTRICAL DEMOLITION

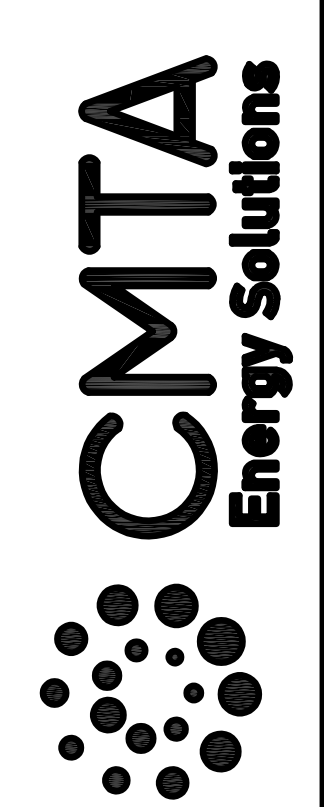
SCALE: 1/16" = 1'-0"

1
E4-22



BID SET

9519 Civic Way, Suite 100
Prospect, KY 40059
T: 502 409 4064, F: 502 919 1521
M: brangser@cmta.com



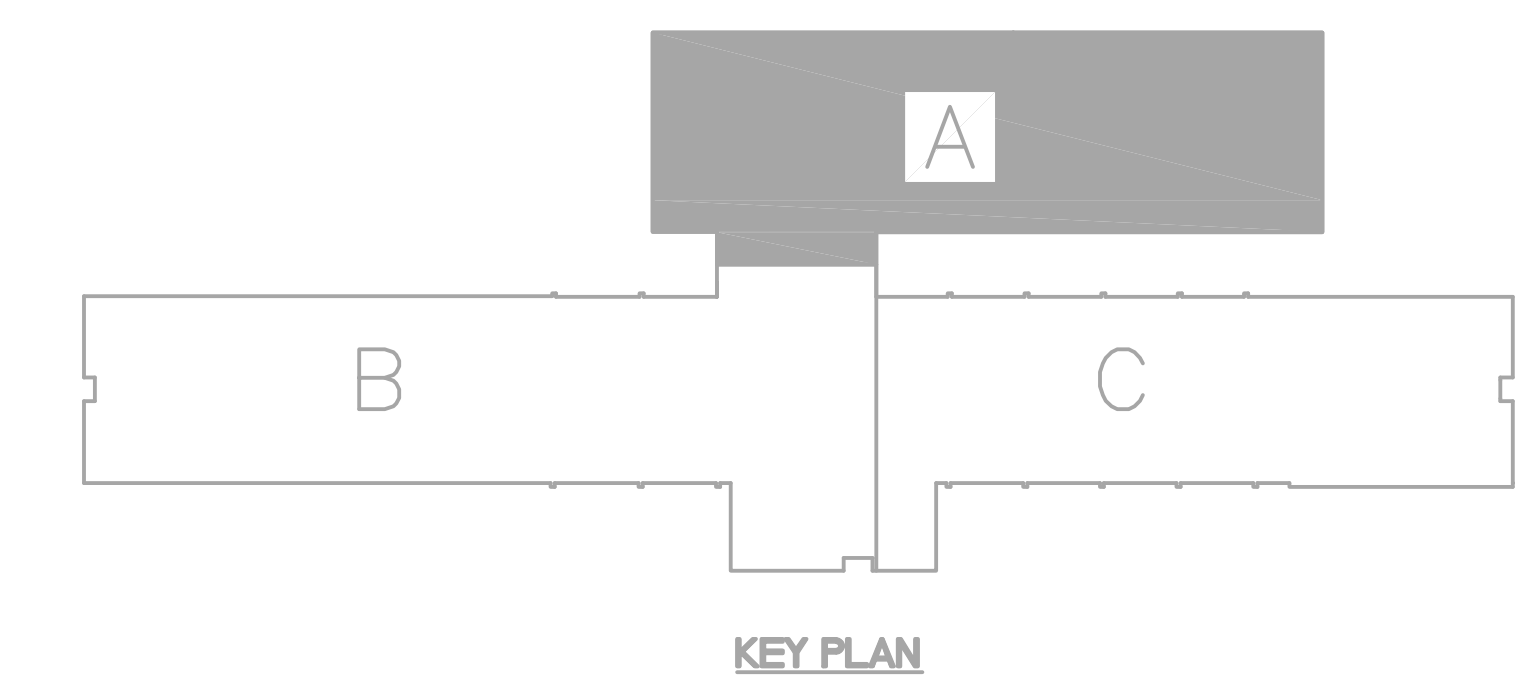
Pulaski County Schools
GUARANTEED ENERGY SAVINGS CONTRACT
SHOPVILLE ELEMENTARY SCHOOL
SOMERSET, KY
FIRST FLOOR ELECTRICAL - AREA 'A'

REVISIONS
▲ ADDENDUM #1 - 3/18/22
▲ ADDENDUM #2 - 3/25/22

DATE: 03.11.2022
DRAWN: CJ
CHECKED: OMC

SET NO.

E4-
3.1A

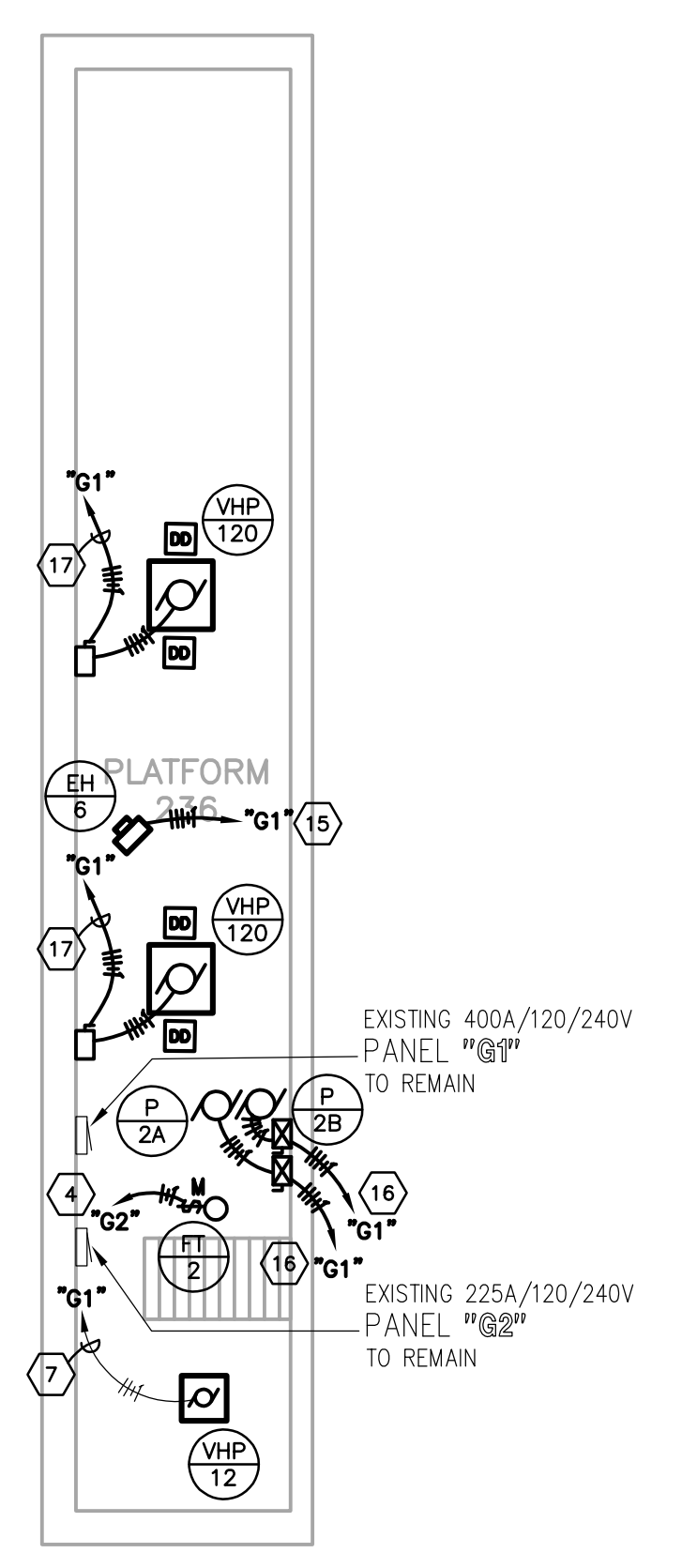


GENERAL NEW WORK NOTES (POWER) :

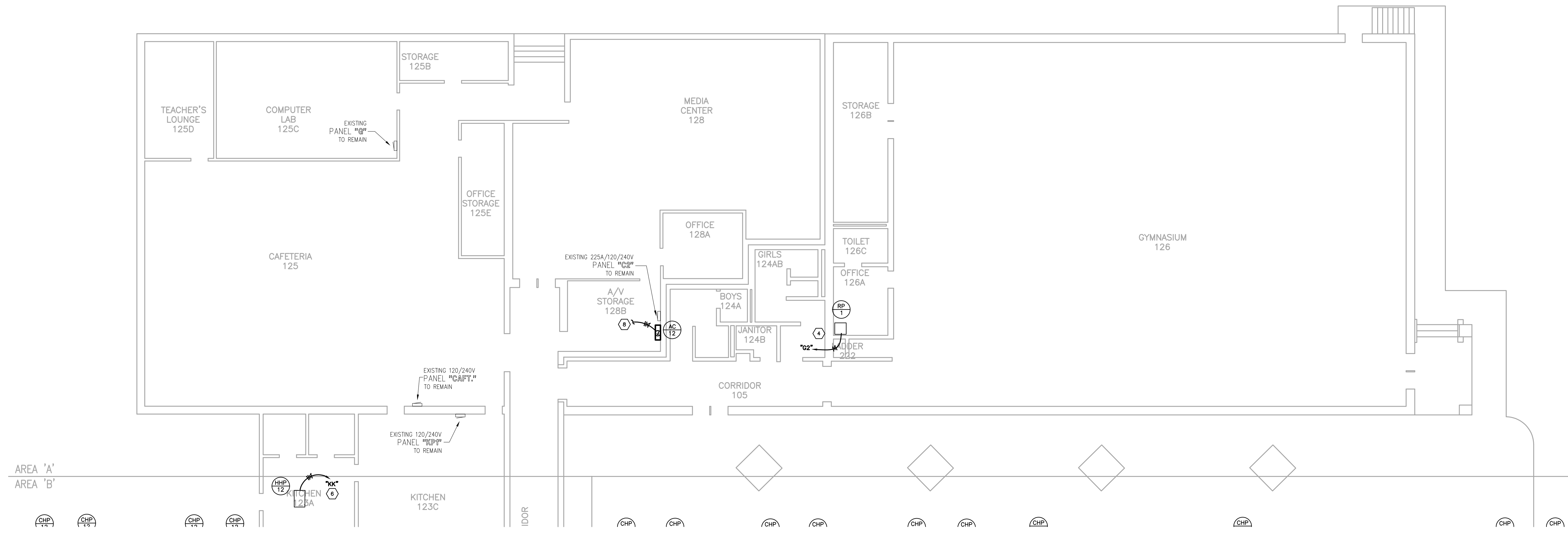
- A. REFER TO THE ARCHITECT'S REFLECTED CEILING PLANS, ELEVATIONS, AND CASEWORK DETAILS FOR EXACT LOCATIONS OF ALL WALL AND CEILING MOUNTED ELECTRICAL DEVICES.
- B. CONTRACTOR SHALL FOLLOW BRANCH CIRCUITING LAY-OUT, AS INDICATED ON THE FLOOR PLANS, WITH A MAXIMUM OF THREE (3) BRANCH CIRCUITS PER HOMERUN. EACH BRANCH CIRCUIT SHALL BE PROVIDED WITH A DEDICATED NEUTRAL CONDUCTOR. DEDICATED NEUTRAL CONDUCTORS SHALL BE CONSIDERED CURRENT CARRYING. IF ADDITIONAL CONDUCTORS ARE RAN IN THE SAME CONDUIT WITH THOSE INDICATED, CONTRACTOR SHALL DERATE ALL CURRENT CARRYING CONDUCTORS PER NEC 310.15(B)(3), AND UPSIZE CONDUIT AS REQUIRED PER NEC 300.17 AND ANNEX C. MULTIPLE BRANCH CIRCUITS AS DEFINED IN NEC 100 / 210.4 (CIRCUITS SHARING A COMMON NEUTRAL CONDUCTOR) SHALL NOT BE PERMITTED.
- C. IDENTIFY THE PANEL AND CIRCUIT NUMBER FOR ALL RECEPTACLES, SWITCHES, ETC. IN AREA OF CONSTRUCTION, MARK INSIDES OF ALL DEVICE BOXES WITH PANEL AND CIRCUIT NUMBER. PROVIDE NEW TYPE-WRITTEN PANEL SCHEDULES INDICATING ALL FINAL CIRCUIT DESIGNATIONS WITH EQUIPMENT AND ROOM SERVED.
- D. RECEPTACLES THAT ARE CONTROLLED BY AN AUTOMATIC MEANS SUCH AS OCCUPANCY SENSOR OR ENERGY MANAGEMENT SYSTEM SHALL BE MARKED IN ACCORDANCE WITH NEC 406.3(E).
- E. LOCATIONS OF ELECTRICAL CONNECTIONS AND LOCAL DISCONNECTS SHALL BE COORDINATED WITH MECHANICAL AND PLUMBING CONTRACTORS TO ENSURE ACCESS AND WORKING CLEARANCE IS MAINTAINED PER NEC. NOTIFY OTHER TRADES OF REQUIRED CLEARANCE AREAS TO AVOID ROUTING OF OTHER SYSTEMS IN THESE AREAS. DO NOT INSTALL ELECTRICAL EQUIPMENT OVER EQUIPMENT NAMEPLATES OR ACCESS PANELS OR THROUGH ACCESS/MAINTENANCE CLEARANCES OF EQUIPMENT BY OTHER TRADES.
- H. NO CONDUIT SHALL BE INSTALLED UNDERGROUND, EXCEPT FOR DISTRIBUTION EQUIPMENT FEEDERS, UNLESS REQUIRED FOR THE APPLICATION (FLOOR BOXES, ISLANDS, ETC.) OR SPECIFICALLY INDICATED AS SUCH IN CONSTRUCTION DOCUMENTS. NO CONDUIT SHALL BE INSTALLED WITHIN CONCRETE SLABS.
- I. REFER TO MECHANICAL DRAWINGS FOR PROPOSED DUCTWORK ROUTING. SOME LOCATIONS OF ELECTRICAL CONFLICT MAY HAVE BEEN IDENTIFIED ON THE DRAWINGS, BUT NOT ALL. CONTRACTOR IS RESPONSIBLE FOR REVIEW OF EXISTING ELECTRICAL DEVICES, WIRING, CONDUITS, RACKINGS, ETC. AS REQUIRED TO FACILITATE NEW DUCTWORK INSTALLATION AND PENETRATIONS WHETHER INDICATED OR NOT ON THESE PLANS. CONTRACTOR SHALL RE-WORK ANY EXISTING TO REMAIN CONDUITS OR WALL PENETRATIONS WHERE CONFLICTING WITH NEW MAIN DUCTWORK ROUTING. REFER TO MECHANICAL PLANS FOR EXACT LOCATIONS.

TAGGED NOTES :

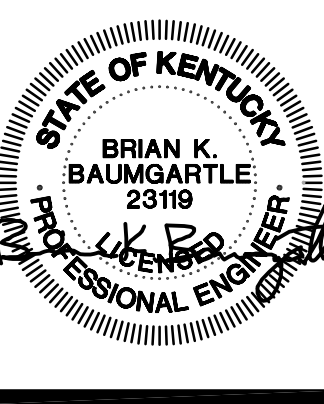
- 1. INTERCEPT AND EXTEND EXISTING BRANCH CIRCUITING AND CONDUIT AS REQUIRED TO PROVIDE POWER TO NEW MECHANICAL EQUIPMENT INDICATED. ROUTE THREE (3) #12 CONDUCTORS AND ONE (1) #12 GROUND IN 3/4" CONDUIT TO NEW 25A/2P BREAKER IN PANELBOARD INDICATED. COORDINATE ALL REQUIREMENTS PRIOR TO CONSTRUCTION.
- 2. INTERCEPT AND EXTEND EXISTING BRANCH CIRCUITING AND CONDUIT AS REQUIRED TO PROVIDE POWER TO NEW MECHANICAL EQUIPMENT INDICATED. ROUTE THREE (3) #12 CONDUCTORS AND ONE (1) #12 GROUND IN 3/4" CONDUIT TO EXISTING 25A/2P BREAKER IN PANELBOARD INDICATED. COORDINATE ALL REQUIREMENTS PRIOR TO CONSTRUCTION.
- 3. ROUTE THREE (3) #10 CONDUCTORS AND ONE (1) #10 GROUND IN NEW 3/4" CONDUIT TO NEW 20A/2P BREAKER IN PANELBOARD INDICATED. COORDINATE ALL REQUIREMENTS PRIOR TO CONSTRUCTION.
- 4. ROUTE TWO (2) #12 CONDUCTORS AND ONE (1) #12 GROUND IN NEW 3/4" CONDUIT TO NEW 20A/2P BREAKER IN PANELBOARD INDICATED. COORDINATE ALL REQUIREMENTS PRIOR TO CONSTRUCTION.
- 5. ROUTE THREE (3) #10 CONDUCTORS AND ONE (1) #10 GROUND IN NEW 3/4" CONDUIT TO NEW 30A/2P BREAKER IN PANELBOARD INDICATED. COORDINATE ALL REQUIREMENTS PRIOR TO CONSTRUCTION.
- 6. ROUTE THREE (3) #10 CONDUCTORS AND ONE (1) #10 GROUND IN NEW 3/4" CONDUIT TO NEW 15A/2P BREAKER IN PANELBOARD INDICATED. COORDINATE ALL REQUIREMENTS PRIOR TO CONSTRUCTION.
- 7. INTERCEPT AND EXTEND EXISTING BRANCH CIRCUITING AND CONDUIT AS REQUIRED TO PROVIDE POWER TO NEW MECHANICAL EQUIPMENT INDICATED. ROUTE THREE (3) #12 CONDUCTORS AND ONE (1) #12 GROUND IN 3/4" CONDUIT TO NEW 15A/2P BREAKER IN PANELBOARD INDICATED. COORDINATE ALL REQUIREMENTS PRIOR TO CONSTRUCTION.
- 8. INDOOR UNIT POWERED FROM EXTERIOR UNIT MATCH WIRE AND CONDUIT AS REQUIRED TO PROVIDE POWER. COORDINATE REQUIREMENTS WITH MECHANICAL CONTRACTOR PRIOR TO CONSTRUCTION.
- 9. PROVIDE POWER AND NETWORK DROP TO HVAC CONTROL PANEL. PROVIDE 120V CONNECTION AND DATA BOXES AS REQUIRED. COORDINATE EXACT REQUIREMENTS WITH MECHANICAL CONTRACTOR.
- 10. ROUTE FOUR (4) #4 CONDUCTORS AND ONE (1) #8 GROUND IN NEW 1-1/4" CONDUIT TO NEW 80A/3P BREAKER IN PANELBOARD INDICATED. COORDINATE ALL REQUIREMENTS PRIOR TO CONSTRUCTION.
- 11. ROUTE THREE (3) #12 CONDUCTORS AND ONE (1) #12 GROUND IN NEW 3/4" CONDUIT TO NEW 25A/2P BREAKER IN PANELBOARD INDICATED. COORDINATE ALL REQUIREMENTS PRIOR TO CONSTRUCTION.
- 12. ROUTE FOUR (4) #3 CONDUCTORS AND ONE (1) #8 GROUND IN NEW 1-1/4" CONDUIT TO NEW 90A/3P BREAKER IN PANELBOARD INDICATED. COORDINATE ALL REQUIREMENTS PRIOR TO CONSTRUCTION.
- 13. ROUTE (2) #12 CONDUCTORS AND (1) #12 GROUND IN 3/4" CONDUIT TO NEW 20A/1P BREAKER TO ELECTRICAL DISTRIBUTION INDICATED. COORDINATE REQUIREMENTS WITH EXISTING CONDITIONS PRIOR TO CONSTRUCTION.
- 14. ROUTE (3) #4 CONDUCTORS AND (1) #8 GROUND IN 1-1/4" CONDUIT TO NEW 80A/3P BREAKER TO ELECTRICAL DISTRIBUTION INDICATED. COORDINATE REQUIREMENTS WITH EXISTING CONDITIONS PRIOR TO CONSTRUCTION.
- 15. ROUTE (4) #8 CONDUCTORS AND (1) #10 GROUND IN 3/4" CONDUIT TO NEW 40A/3P BREAKER TO ELECTRICAL DISTRIBUTION INDICATED. COORDINATE REQUIREMENTS WITH EXISTING CONDITIONS PRIOR TO CONSTRUCTION.
- 16. ROUTE (4) #12 CONDUCTORS AND (1) #12 GROUND IN 3/4" CONDUIT TO NEW 20A/3P BREAKER TO ELECTRICAL DISTRIBUTION INDICATED. PROVIDE WITH COMBINATION MOTOR STARTER/DISCONNECT PER SPECIFICATIONS. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH M.C. AND EQUIPMENT SHOP. DRAWINGS PRIOR TO ORDERING. COORDINATE REQUIREMENTS WITH EXISTING CONDITIONS PRIOR TO CONSTRUCTION.
- 17. ROUTE (4) #4 CONDUCTORS AND (1) #8 GROUND IN 1-1/4" CONDUIT TO NEW 70A/3P BREAKER TO ELECTRICAL DISTRIBUTION INDICATED. PROVIDE 100A/3P 240V FUSIBLE DISCONNECT FUSED AT EQUIPMENT NAMEPLATE RATING. COORDINATE EXACT MOUNTING LOCATION AND CONNECTION TO M.C. FURNISHED VFD WITH M.C. PRIOR TO ROUGH-IN. COORDINATE REQUIREMENTS WITH EXISTING CONDITIONS PRIOR TO CONSTRUCTION.



PLATFORM ABOVE GYM - ELECTRICAL
SCALE: 1/8" = 1'-0"
1
E4-21A

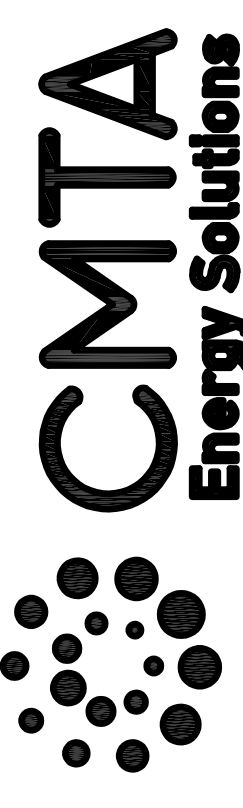


PARTIAL FIRST FLOOR PLAN (AREA A) - ELECTRICAL
SCALE: 1/8" = 1'-0"
1
E4-31A



BID SET

9519 Civic Way, Suite 100
Prospect, KY 40059
T: 502 4094060, F: 502 9191521
M: brangerc@cmta.com



Pulaski County Schools
GUARANTEED ENERGY SAVINGS CONTRACT
SHOPVILLE ELEMENTARY SCHOOL
SOMERSET, KY

FIRST FLOOR ELECTRICAL - AREA 'B'

REVISIONS
▲ ADDENDUM #1 - 3/18/22
▲ ADDENDUM #2 - 3/25/22

DATE: 03.11.2022
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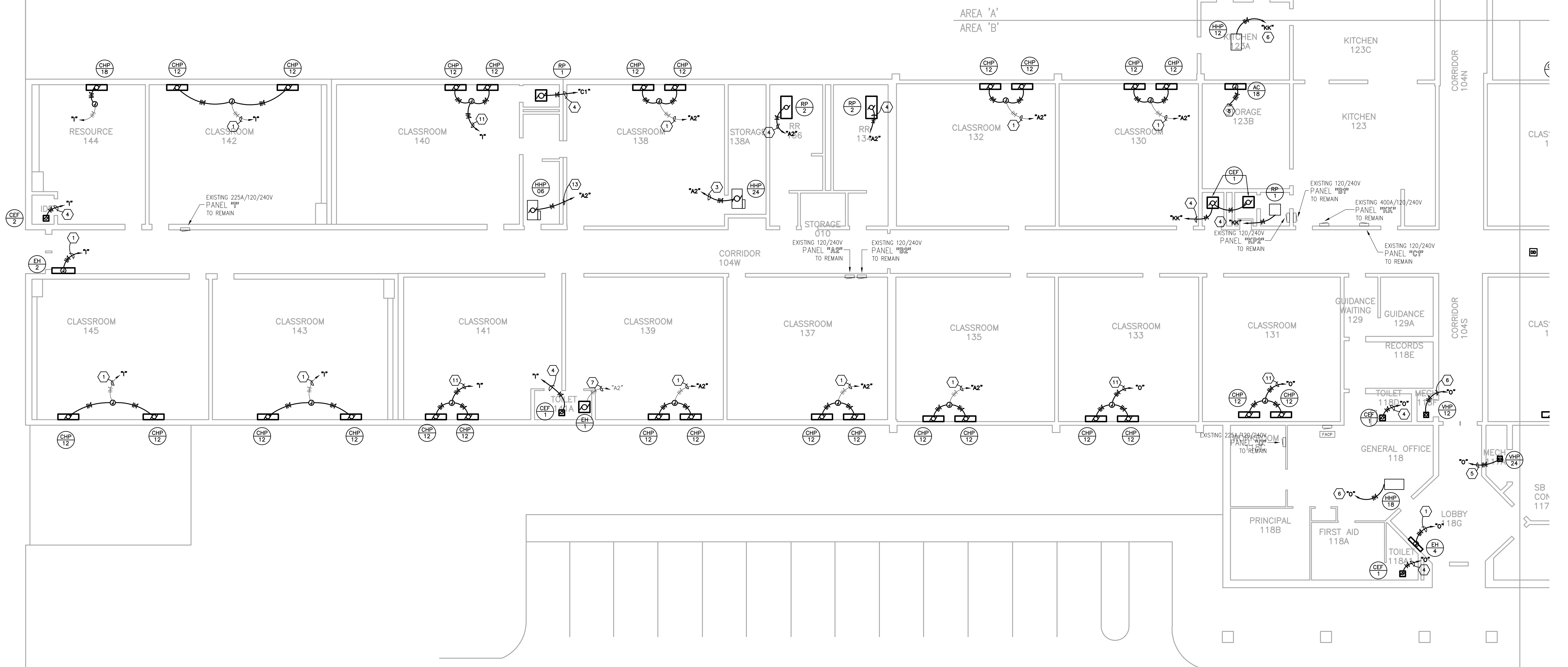
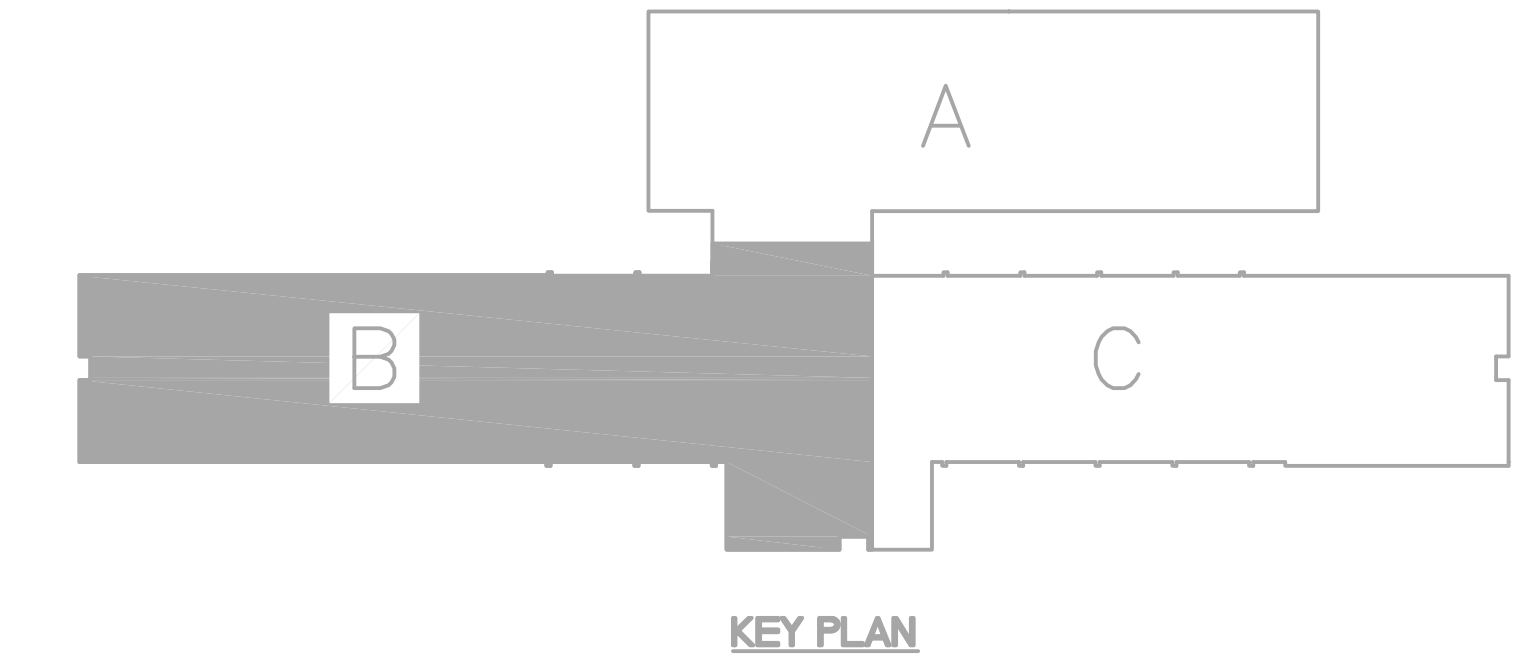
E4-3.1B

GENERAL NEW WORK NOTES (POWER):

- REFER TO THE ARCHITECT'S REFLECTED CEILING PLANS, ELEVATIONS, AND CASWORK DETAILS FOR EXACT LOCATIONS OF ALL WALL AND CEILING MOUNTED ELECTRICAL DEVICES.
- CONTRACTOR SHALL FOLLOW BRANCH CIRCUITING LAY-OUT, AS INDICATED ON THE FLOOR PLANS, WITH A MAXIMUM OF THREE (3) BRANCH CIRCUITS PER HOMERUN. EACH BRANCH CIRCUIT SHALL BE PROVIDED WITH A DEDICATED NEUTRAL CONDUCTOR. DEDICATED NEUTRAL CONDUCTORS SHALL BE CONSIDERED CURRENT CARRYING. IF ADDITIONAL CONDUCTORS ARE RAN IN THE SAME CONDUIT WITH THOSE INDICATED, CONTRACTOR SHALL DERATE ALL CURRENT CARRYING CONDUCTORS PER NEC 310.15(B)(3), AND UPSIZE CONDUIT AS REQUIRED PER NEC 300.17 AND ANNEX C. MULTIRATE BRANCH CIRCUITS AS DEFINED IN NEC 100 / 210.4 (CIRCUITS SHARING A COMMON NEUTRAL CONDUCTOR) SHALL NOT BE PERMITTED.
- IDENTIFY THE PANEL AND CIRCUIT NUMBER FOR ALL RECEPTACLES, SWITCHES, ETC. IN AREA OF CONSTRUCTION. MARK INSIDES OF ALL DEVICE BOXES WITH PANEL AND CIRCUIT NUMBER. PROVIDE NEW TYPE-WRITTEN PANEL SCHEDULES INDICATING ALL FINAL CIRCUIT DESIGNATIONS WITH EQUIPMENT AND ROOM SERVED.
- RECEPTACLES THAT ARE CONTROLLED BY AN AUTOMATIC MEANS SUCH AS OCCUPANCY SENSOR OR ENERGY MANAGEMENT SYSTEM SHALL BE MARKED IN ACCORDANCE WITH NEC 408.365.
- LOCATIONS OF ELECTRICAL CONNECTIONS AND LOCAL DISCONNECTS SHALL BE COORDINATED WITH MECHANICAL AND PLUMBING CONTRACTORS TO ENSURE ACCESS AND WORKING CLEARANCE IS MAINTAINED PER NEC. NOTIFY OTHER TRADES OF REQUIRED CLEARANCE AREAS TO AVOID ROUTING OF OTHER SYSTEMS IN THESE AREAS. DO NOT INSTALL ELECTRICAL EQUIPMENT OVER EQUIPMENT NAMEPLATES OR ACCESS PANELS OR THROUGH ACCESS/MAINTENANCE CLEARANCES OF EQUIPMENT BY OTHER TRADES.
- NO CONDUIT SHALL BE INSTALLED UNDERGROUND, EXCEPT FOR DISTRIBUTION EQUIPMENT FEEDERS, UNLESS REQUIRED FOR THE APPLICATION (FLOOR BOXES, ISLANDS, ETC.) OR SPECIFICALLY INDICATED AS SUCH IN CONSTRUCTION DOCUMENTS. NO CONDUIT SHALL BE INSTALLED WITHIN CONCRETE SLABS.
- REFER TO MECHANICAL DRAWINGS FOR PROPOSED DUCTWORK ROUTING. SOME LOCATIONS OF ELECTRICAL CONDUIT MAY HAVE BEEN IDENTIFIED ON THE DRAWINGS, BUT NOT ALL. CONTRACTOR IS RESPONSIBLE FOR REVIEW OF EXISTING ELECTRICAL WIRING, CONDUITS, RACEWAYS, ETC. AS REQUIRED TO FACILITATE NEW DUCTWORK INSTALLATION AND PENETRATIONS WHETHER INDICATED OR NOT ON THESE PLANS. CONTRACTOR SHALL RE-WORK ANY EXISTING TO REMAIN CONDUITS OR WALL PENETRATIONS WHERE CONFLICTING WITH NEW MAIN DUCTWORK ROUTING. REFER TO MECHANICAL PLANS FOR EXACT LOCATIONS.

TAGGED NOTES:

- INTERCEPT AND EXTEND EXISTING BRANCH CIRCUITING AND CONDUIT AS REQUIRED TO PROVIDE POWER TO NEW MECHANICAL EQUIPMENT INDICATED. ROUTE THREE (3) #12 CONDUCTORS AND ONE (1) #12 GROUND IN 3/4" CONDUIT TO NEW 25A/2P BREAKER IN PANELBOARD INDICATED. COORDINATE ALL REQUIREMENTS PRIOR TO CONSTRUCTION.
- INTERCEPT AND EXTEND EXISTING BRANCH CIRCUITING AND CONDUIT AS REQUIRED TO PROVIDE POWER TO NEW MECHANICAL EQUIPMENT INDICATED. ROUTE THREE (3) #12 CONDUCTORS AND ONE (1) #12 GROUND IN 3/4" CONDUIT TO EXISTING 25A/2P BREAKER IN PANELBOARD INDICATED. COORDINATE ALL REQUIREMENTS PRIOR TO CONSTRUCTION.
- ROUTE THREE (3) #10 CONDUCTORS AND ONE (1) #10 GROUND IN NEW 3/4" CONDUIT TO NEW 20A/2P BREAKER IN PANELBOARD INDICATED. COORDINATE ALL REQUIREMENTS PRIOR TO CONSTRUCTION.
- ROUTE TWO (2) #12 CONDUCTORS AND ONE (1) #12 GROUND IN NEW 3/4" CONDUIT TO NEW 20A/1P BREAKER IN PANELBOARD INDICATED. COORDINATE ALL REQUIREMENTS PRIOR TO CONSTRUCTION.
- ROUTE THREE (3) #10 CONDUCTORS AND ONE (1) #10 GROUND IN NEW 3/4" CONDUIT TO NEW 15A/2P BREAKER IN PANELBOARD INDICATED. COORDINATE ALL REQUIREMENTS PRIOR TO CONSTRUCTION.
- ROUTE THREE (3) #10 CONDUCTORS AND ONE (1) #10 GROUND IN NEW 3/4" CONDUIT TO NEW 15A/2P BREAKER IN PANELBOARD INDICATED. COORDINATE ALL REQUIREMENTS PRIOR TO CONSTRUCTION.
- INTERCEPT AND EXTEND EXISTING BRANCH CIRCUITING AND CONDUIT AS REQUIRED TO PROVIDE POWER TO NEW MECHANICAL EQUIPMENT INDICATED. ROUTE THREE (3) #12 CONDUCTORS AND ONE (1) #12 GROUND IN 3/4" CONDUIT TO NEW 15A/2P BREAKER IN PANELBOARD INDICATED. COORDINATE ALL REQUIREMENTS PRIOR TO CONSTRUCTION.
- INDOOR UNIT POWERED FROM EXTERIOR UNIT. MATCH WIRE AND CONDUIT AS REQUIRED TO PROVIDE POWER. COORDINATE REQUIREMENTS WITH MECHANICAL CONTRACTOR PRIOR TO CONSTRUCTION.
- PROVIDE POWER AND NETWORK DROP TO HVAC CONTROL PANEL. PROVIDE 120V CONNECTION AND DATA BOXES AS REQUIRED. COORDINATE EXACT REQUIREMENTS WITH MECHANICAL CONTRACTOR.
- ROUTE FOUR (4) #4 CONDUCTORS AND ONE (1) #8 GROUND IN NEW 1-1/4" CONDUIT TO NEW 80A/3P BREAKER IN PANELBOARD INDICATED. COORDINATE ALL REQUIREMENTS PRIOR TO CONSTRUCTION.
- ROUTE THREE (3) #12 CONDUCTORS AND ONE (1) #12 GROUND IN NEW 3/4" CONDUIT TO NEW 25A/2P BREAKER IN PANELBOARD INDICATED. COORDINATE ALL REQUIREMENTS PRIOR TO CONSTRUCTION.
- ROUTE FOUR (4) #10 CONDUCTORS AND ONE (1) #8 GROUND IN NEW 1-1/4" CONDUIT TO NEW 80A/3P BREAKER IN PANELBOARD INDICATED. COORDINATE ALL REQUIREMENTS PRIOR TO CONSTRUCTION.
- ROUTE TWO (2) #12 CONDUCTORS AND ONE (1) #12 GROUND IN 3/4" CONDUIT TO NEW 20A/1P BREAKER TO ELECTRICAL DISTRIBUTION INDICATED. COORDINATE REQUIREMENTS WITH EXISTING CONDITIONS PRIOR TO CONSTRUCTION.
- ROUTE THREE (3) #4 CONDUCTORS AND ONE (1) #8 GROUND IN 1-1/4" CONDUIT TO NEW 80A/3P BREAKER TO ELECTRICAL DISTRIBUTION INDICATED. COORDINATE REQUIREMENTS WITH EXISTING CONDITIONS PRIOR TO CONSTRUCTION.
- ROUTE FOUR (4) #8 CONDUCTORS AND ONE (1) #10 GROUND IN 3/4" CONDUIT TO NEW 40A/3P BREAKER TO ELECTRICAL DISTRIBUTION INDICATED. COORDINATE REQUIREMENTS WITH EXISTING CONDITIONS PRIOR TO CONSTRUCTION.
- ROUTE FOUR (4) #12 CONDUCTORS AND ONE (1) #12 GROUND IN 3/4" CONDUIT TO NEW 20A/3P BREAKER TO ELECTRICAL DISTRIBUTION INDICATED. PROVIDE WITH COMBINATION MOTOR STARTER/DISCONNECT PER SPECIFICATIONS. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH M.C. AND EQUIPMENT SHOP DRAWINGS PRIOR TO ORDERING. COORDINATE REQUIREMENTS WITH EXISTING CONDITIONS PRIOR TO CONSTRUCTION.
- ROUTE FOUR (4) #4 CONDUCTORS AND ONE (1) #8 GROUND IN 1-1/4" CONDUIT TO NEW 70A/3P BREAKER TO ELECTRICAL DISTRIBUTION INDICATED. PROVIDE 100A/3P/240V FUSIBLE DISCONNECT FUSED AT EQUIPMENT NAMEPLATE RATING. COORDINATE EXACT MOUNTING LOCATION AND CONNECTION TO M.C. FURNISHED VED WITH M.C. PRIOR TO ROUGH-IN. COORDINATE REQUIREMENTS WITH EXISTING CONDITIONS PRIOR TO CONSTRUCTION.

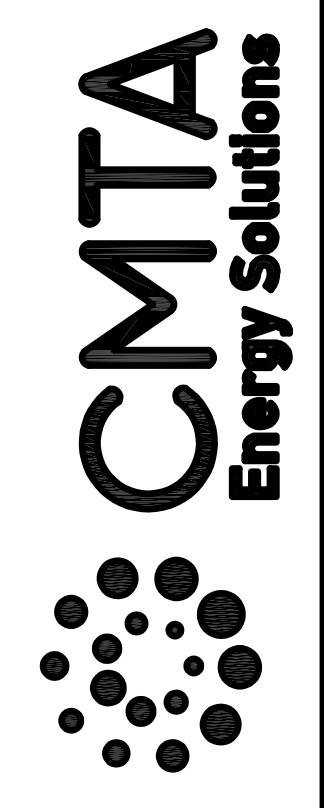


PARTIAL FIRST FLOOR PLAN (AREA B) - ELECTRICAL
SCALE: 1/8" = 1'-0"



BID SET

9519 Civic Way, Suite 100
Prospect, KY 40059
T: 502 4094060 F: 502 9191521
M: brangerc@cmta.com



Pulaski County Schools
GUARANTEED ENERGY SAVINGS CONTRACT
SHOPVILLE ELEMENTARY SCHOOL
SOMERSET, KY
FIRST FLOOR ELECTRICAL - AREA 'C'

REVISIONS	
▲	ADDENDUM #1 - 3/18/22
▲	ADDENDUM #2 - 3/25/22

DATE: 03.11.2022
DRAWN: CJ
CHECKED: OMC

SET NO.

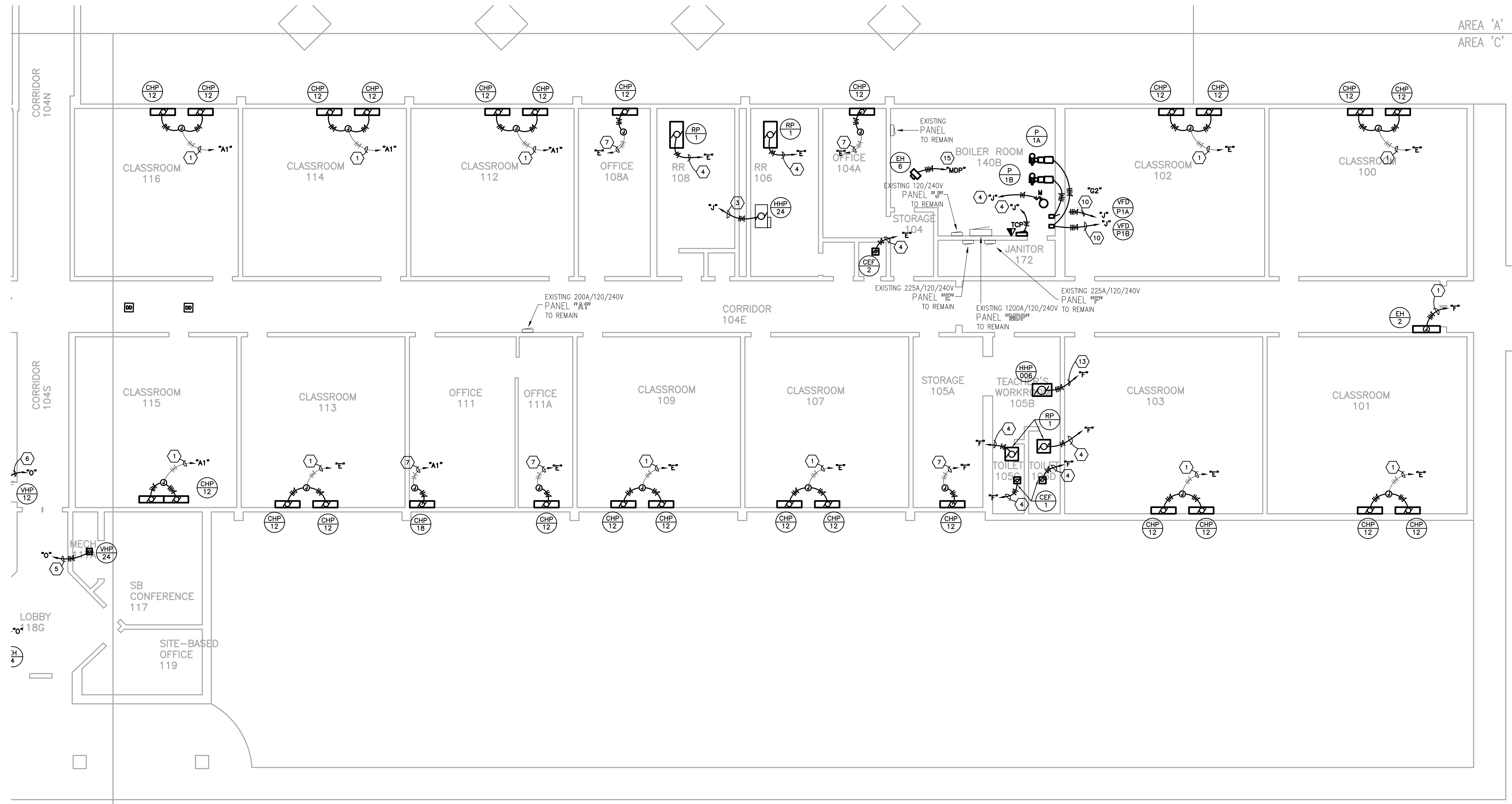
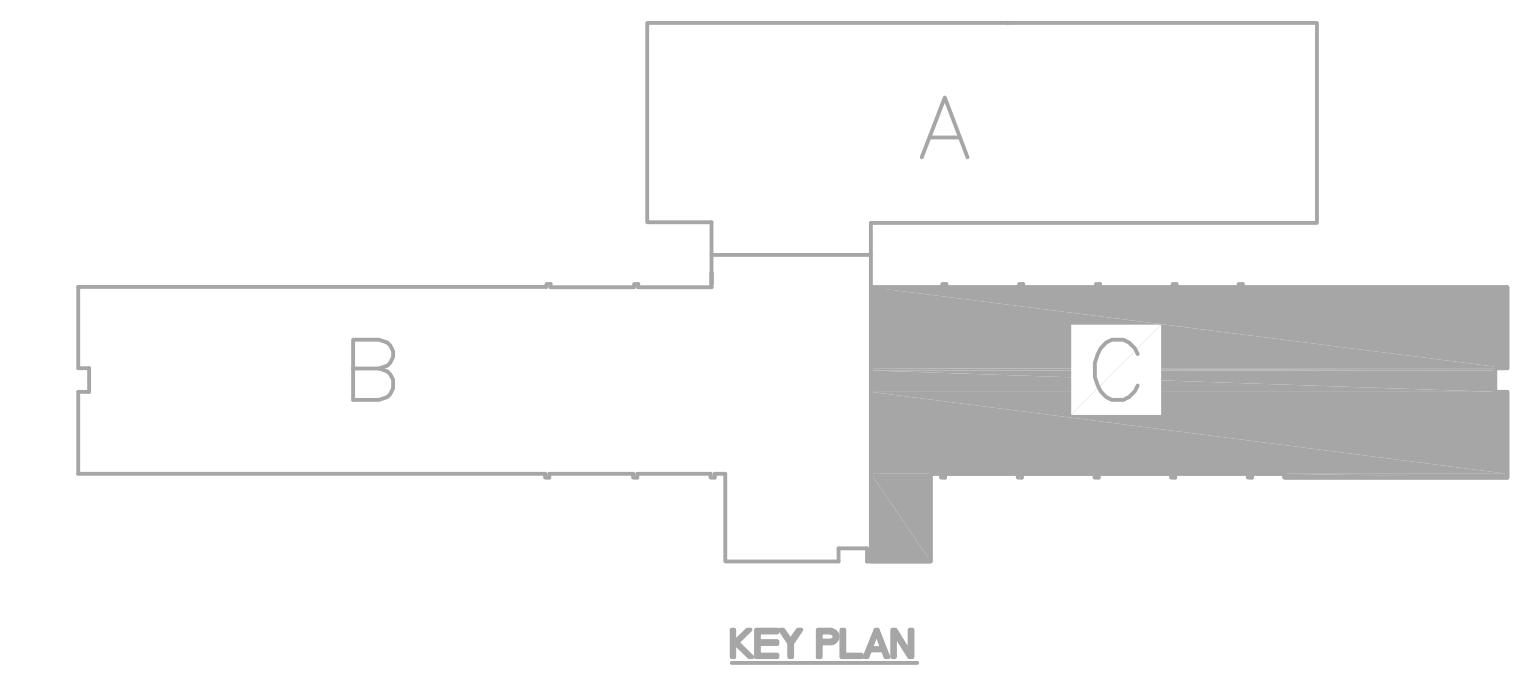
E4-3.1C

GENERAL NEW WORK NOTES (POWER) :

- A. REFER TO THE ARCHITECT'S REFLECTED CEILING PLANS, ELEVATIONS, AND CASEWORK DETAILS FOR EXACT LOCATIONS OF ALL WALL AND CEILING MOUNTED ELECTRICAL DEVICES.
- B. CONTRACTOR SHALL FOLLOW BRANCH CIRCUITING LAY-OUT, AS INDICATED ON THE FLOOR PLANS, WITH A MAXIMUM OF THREE (3) BRANCH CIRCUITS PER HOMERUN. EACH BRANCH CIRCUIT SHALL BE PROVIDED WITH A DEDICATED NEUTRAL CONDUCTOR. DEDICATED NEUTRAL CONDUCTORS SHALL BE CONSIDERED CURRENT CARRYING. IF ADDITIONAL CONDUCTORS ARE RAN IN THE SAME CONDUIT WITH THOSE INDICATED, CONTRACTOR SHALL DERATE ALL CURRENT CARRYING CONDUCTORS PER NEC 310.15(B)(3), AND UPSIZE CONDUIT AS REQUIRED PER NEC 300.7 AND ANEX C. MULTIPLE BRANCH CIRCUITS AS DEFINED IN NEC 100 / 210.4 (CIRCUITS SHARING A COMMON NEUTRAL CONDUCTOR) SHALL NOT BE PERMITTED.
- C. IDENTIFY THE PANEL AND CIRCUIT NUMBER FOR ALL RECEPTACLES, SWITCHES, ETC. IN AREA OF CONSTRUCTION. MARK INSIDES OF ALL DEVICE BOXES WITH PANEL AND CIRCUIT NUMBER. PROVIDE NEW TYPE-WRITTEN PANEL SCHEDULES INDICATING ALL FINAL CIRCUIT DESIGNATIONS WITH EQUIPMENT AND ROOM SERVED.
- D. RECEPTACLES THAT ARE CONTROLLED BY AN AUTOMATIC MEANS SUCH AS OCCUPANCY SENSOR OR ENERGY MANAGEMENT SYSTEM SHALL BE MARKED IN ACCORDANCE WITH NEC 406.3(E).
- E. LOCATIONS OF ELECTRICAL CONNECTIONS AND LOCAL DISCONNECTS SHALL BE COORDINATED WITH MECHANICAL AND PLUMBING CONTRACTORS TO ENSURE ACCESS AND WORKING CLEARANCE IS MAINTAINED PER NEC. NOTIFY OTHER TRADES OF REQUIRED CLEARANCE AREAS TO AVOID ROUTING OF OTHER SYSTEMS IN THESE AREAS. DO NOT INSTALL ELECTRICAL EQUIPMENT OVER EQUIPMENT NAMEPLATES OR ACCESS PANELS OR THROUGH ACCESS/MAINTENANCE CLEARANCES OF EQUIPMENT BY OTHER TRADES.
- H. NO CONDUIT SHALL BE INSTALLED UNDERGROUND, EXCEPT FOR DISTRIBUTION EQUIPMENT FEEDERS, UNLESS REQUIRED FOR THE APPLICATION (FLOOR BOXES, ISLANDS, ETC.) OR SPECIFICALLY INDICATED AS SUCH IN CONSTRUCTION DOCUMENTS. NO CONDUIT SHALL BE INSTALLED WITHIN CONCRETE SLABS.
- I. REFER TO MECHANICAL DRAWINGS FOR PROPOSED DUCTWORK ROUTING. SOME LOCATIONS OF ELECTRICAL CONFLICT MAY HAVE BEEN IDENTIFIED ON THE DRAWINGS, BUT NOT ALL. CONTRACTOR IS RESPONSIBLE FOR REMOVAL OF EXISTING ELECTRICAL DEVICE, WIRING, CONDUITS, RACEWAYS, ETC. AS REQUIRED TO FACILITATE NEW DUCTWORK INSTALLATION AND PENETRATIONS WHETHER INDICATED OR NOT ON THESE PLANS. CONTRACTOR SHALL RE-WORK ANY EXISTING TO REMAIN CONDUITS OR WALL PENETRATIONS WHERE CONFLICTING WITH NEW MAIN DUCTWORK ROUTING. REFER TO MECHANICAL PLANS FOR EXACT LOCATIONS.

TAGGED NOTES :

- 1. INTERCEPT AND EXTEND EXISTING BRANCH CIRCUITING AND CONDUIT AS REQUIRED TO PROVIDE POWER TO NEW MECHANICAL EQUIPMENT INDICATED. ROUTE THREE (3) #12 CONDUCTORS AND ONE (1) #12 GROUND IN 3/4" CONDUIT TO NEW 25A/2P BREAKER IN PANELBOARD INDICATED. COORDINATE ALL REQUIREMENTS PRIOR TO CONSTRUCTION.
- 2. INTERCEPT AND EXTEND EXISTING BRANCH CIRCUITING AND CONDUIT AS REQUIRED TO PROVIDE POWER TO NEW MECHANICAL EQUIPMENT INDICATED. ROUTE THREE (3) #12 CONDUCTORS AND ONE (1) #12 GROUND IN 3/4" CONDUIT TO EXISTING 25A/2P BREAKER IN PANELBOARD INDICATED. COORDINATE ALL REQUIREMENTS PRIOR TO CONSTRUCTION.
- 3. ROUTE THREE (3) #10 CONDUCTORS AND ONE (1) #10 GROUND IN NEW 3/4" CONDUIT TO NEW 20A/2P BREAKER IN PANELBOARD INDICATED. COORDINATE ALL REQUIREMENTS PRIOR TO CONSTRUCTION.
- 4. ROUTE TWO (2) #12 CONDUCTORS AND ONE (1) #12 GROUND IN NEW 3/4" CONDUIT TO NEW 30A/2P BREAKER IN PANELBOARD INDICATED. COORDINATE ALL REQUIREMENTS PRIOR TO CONSTRUCTION.
- 5. ROUTE THREE (3) #10 CONDUCTORS AND ONE (1) #10 GROUND IN NEW 3/4" CONDUIT TO NEW 30A/2P BREAKER IN PANELBOARD INDICATED. COORDINATE ALL REQUIREMENTS PRIOR TO CONSTRUCTION.
- 6. ROUTE THREE (3) #10 CONDUCTORS AND ONE (1) #10 GROUND IN NEW 3/4" CONDUIT TO NEW 15A/2P BREAKER IN PANELBOARD INDICATED. COORDINATE ALL REQUIREMENTS PRIOR TO CONSTRUCTION.
- 7. INTERCEPT AND EXTEND EXISTING BRANCH CIRCUITING AND CONDUIT AS REQUIRED TO PROVIDE POWER TO NEW MECHANICAL EQUIPMENT INDICATED. ROUTE THREE (3) #12 CONDUCTORS AND ONE (1) #12 GROUND IN 3/4" CONDUIT TO NEW 15A/2P BREAKER IN PANELBOARD INDICATED. COORDINATE ALL REQUIREMENTS PRIOR TO CONSTRUCTION.
- 8. INDOOR UNIT POWERED FROM EXTERIOR UNIT. MATCH WIRE AND CONDUIT AS REQUIRED TO PROVIDE POWER. COORDINATE REQUIREMENTS WITH MECHANICAL CONTRACTOR PRIOR TO CONSTRUCTION.
- 9. PROVIDE POWER AND NETWORK DROP TO HVAC CONTROL PANEL. PROVIDE 120V CONNECTION AND DATA BOXES AS REQUIRED. COORDINATE EXACT REQUIREMENTS WITH MECHANICAL CONTRACTOR.
- 10. ROUTE FOUR (4) #4 CONDUCTORS AND ONE (1) #6 GROUND IN NEW 1-1/4" CONDUIT TO NEW 80A/3P BREAKER IN PANELBOARD INDICATED. COORDINATE ALL REQUIREMENTS PRIOR TO CONSTRUCTION.
- 11. ROUTE THREE (3) #12 CONDUCTORS AND ONE (1) #12 GROUND IN NEW 3/4" CONDUIT TO NEW 25A/2P BREAKER IN PANELBOARD INDICATED. COORDINATE ALL REQUIREMENTS PRIOR TO CONSTRUCTION.
- 12. ROUTE FOUR (4) #3 CONDUCTORS AND ONE (1) #6 GROUND IN NEW 1-1/4" CONDUIT TO NEW 90A/3P BREAKER IN PANELBOARD INDICATED. COORDINATE ALL REQUIREMENTS PRIOR TO CONSTRUCTION.
- 13. ROUTE (2) #12 CONDUCTORS AND (1) #12 GROUND IN 3/4" CONDUIT TO NEW 20A/2P BREAKER TO ELECTRICAL DISTRIBUTION INDICATED. COORDINATE REQUIREMENTS WITH EXISTING CONDITIONS PRIOR TO CONSTRUCTION.
- 14. ROUTE (3) #4 CONDUCTORS AND (1) #6 GROUND IN 1-1/4" CONDUIT TO NEW 80A/3P BREAKER TO ELECTRICAL DISTRIBUTION INDICATED. COORDINATE REQUIREMENTS WITH EXISTING CONDITIONS PRIOR TO CONSTRUCTION.
- 15. ROUTE (4) #8 CONDUCTORS AND (1) #10 GROUND IN 3/4" CONDUIT TO NEW 40A/3P BREAKER TO ELECTRICAL DISTRIBUTION INDICATED. COORDINATE REQUIREMENTS WITH EXISTING CONDITIONS PRIOR TO CONSTRUCTION.
- 16. ROUTE (4) #12 CONDUCTORS AND (1) #12 GROUND IN 3/4" CONDUIT TO NEW 20A/2P BREAKER TO ELECTRICAL DISTRIBUTION INDICATED. PROVIDE WITH COMBINATION MOTOR STARTER/DISCONNECT PER SPECIFICATIONS. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH M.C. AND EQUIPMENT SHOP DRAWINGS PRIOR TO ORDERING. COORDINATE REQUIREMENTS WITH EXISTING CONDITIONS PRIOR TO CONSTRUCTION.
- 17. ROUTE (4) #4 CONDUCTORS AND (1) #6 GROUND IN 1-1/4" CONDUIT TO NEW 70A/3P BREAKER TO ELECTRICAL DISTRIBUTION INDICATED. PROVIDE 100A/3P/240V FUSIBLE DISCONNECT FUSED AT EQUIPMENT NAMEPLATE RATING. COORDINATE EXACT REQUIREMENTS WITH MECHANICAL CONTRACTOR PRIOR TO CONSTRUCTION.



PARTIAL FIRST FLOOR PLAN (AREA C) - ELECTRICAL

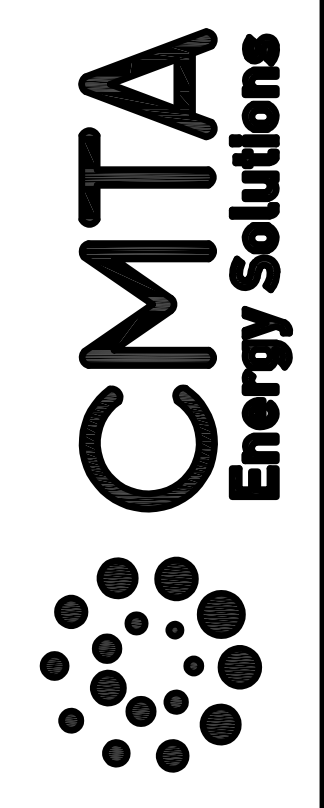
SCALE: 1/8" = 1'-0"

1
E4-3.1C



BID SET

9519 Civic Way, Suite 100
Prospect, KY 40059
T: 502 409-4060, F: 502 919-1521
M: brangiers@cmta.com



Pulaski County Schools
GUARANTEED ENERGY SAVINGS CONTRACT
SHOPVILLE ELEMENTARY SCHOOL
SOMERSET, KY

ELECTRICAL - ROOF PLAN

REVISIONS
▲ ADDENDUM #1 - 3/18/22
▲ ADDENDUM #2 - 3/25/22

DATE: 03.11.2022
DRAWN: CJ
CHECKED: OMC

SET NO.

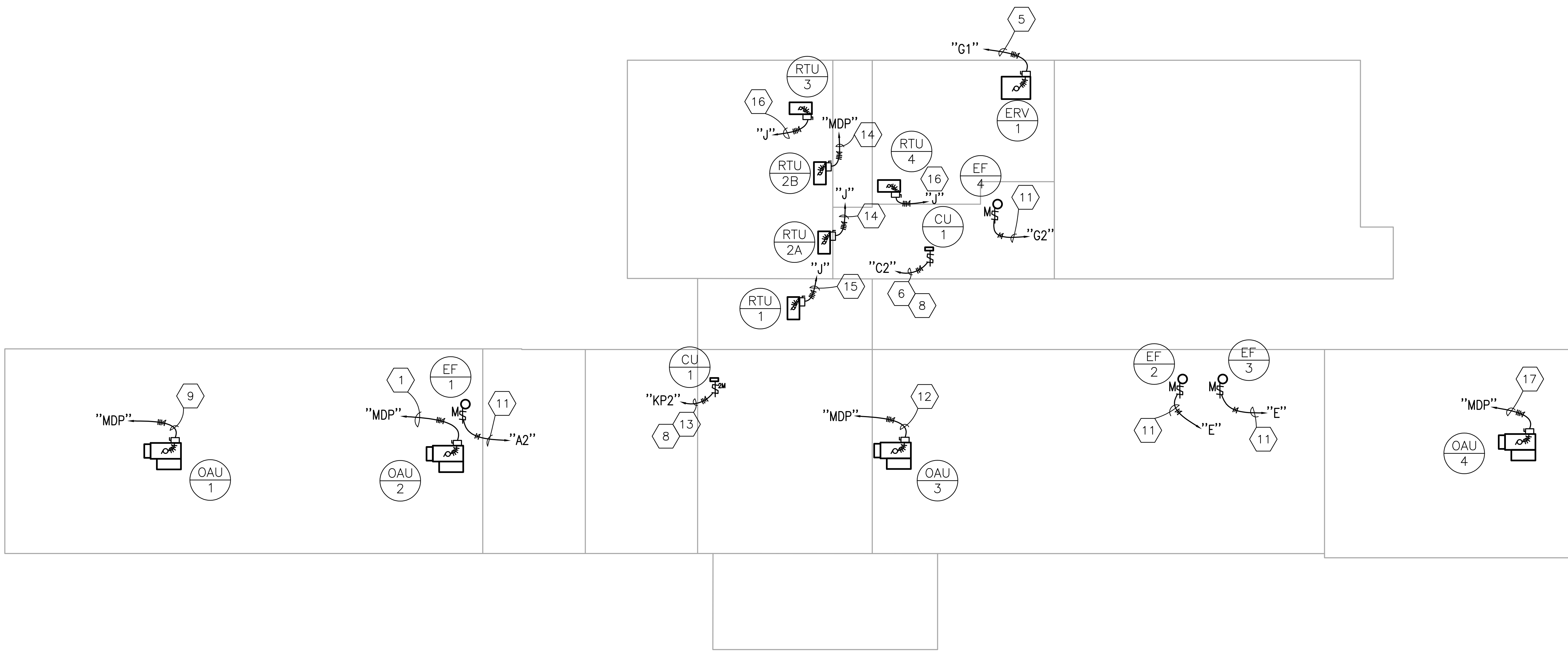
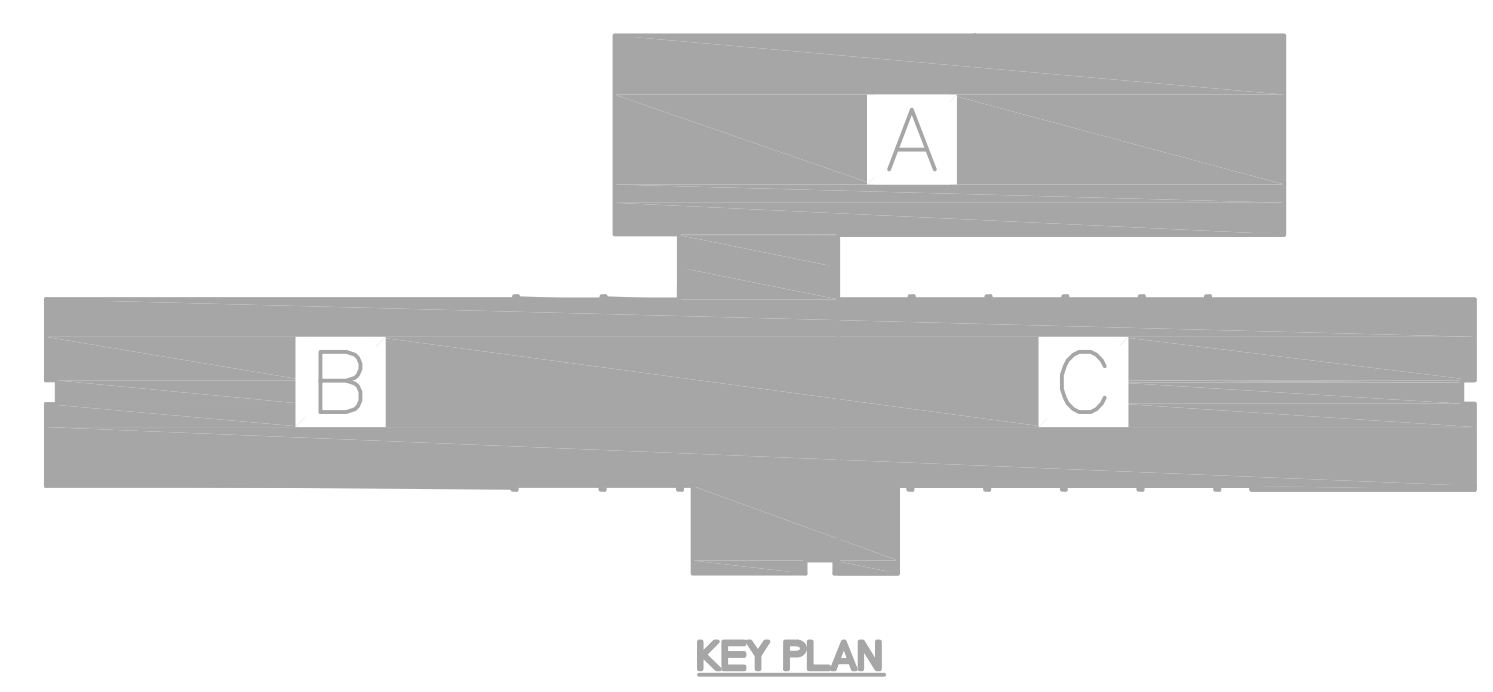
E4-3.2

GENERAL NEW WORK NOTES (POWER) :

- A. REFER TO THE ARCHITECT'S REFLECTED CEILING PLANS, ELEVATIONS, AND CASEWORK DETAILS FOR EXACT LOCATIONS OF ALL WALL AND CEILING MOUNTED ELECTRICAL DEVICES.
- B. CONTRACTOR SHALL FOLLOW BRANCH CIRCUITING LAY-OUT, AS INDICATED ON THE FLOOR PLANS, WITH A MAXIMUM OF THREE (3) BRANCH CIRCUITS PER HOMERUN. EACH BRANCH CIRCUIT SHALL BE PROVIDED WITH A DEDICATED NEUTRAL CONDUCTOR. DEDICATED NEUTRAL CONDUCTORS SHALL BE CONSIDERED CURRENT CARRYING. IF ADDITIONAL CONDUCTORS ARE RAN IN THE SAME CONDUIT WITH THOSE INDICATED, CONTRACTOR SHALL DERATE ALL CURRENT CARRYING CONDUCTORS PER NEC 310.15(B)(3), AND UPSIZE CONDUIT AS REQUIRED PER NEC 300.17 AND ANNEX C. MULTIWIRE BRANCH CIRCUITS AS DEFINED IN NEC 100 / 210.4 (CIRCUITS SHARING A COMMON NEUTRAL CONDUCTOR) SHALL NOT BE PERMITTED.
- C. IDENTIFY THE PANEL AND CIRCUIT NUMBER FOR ALL RECEPTACLES, SWITCHES, ETC. IN AREA OF CONSTRUCTION. MARK INSIDES OF ALL DEVICE BOXES WITH PANEL AND CIRCUIT NUMBER.
- D. RECEPTACLES THAT ARE CONTROLLED BY AN AUTOMATIC MEANS SUCH AS OCCUPANCY SENSOR OR ENERGY MANAGEMENT SYSTEM SHALL BE MARKED IN ACCORDANCE WITH NEC 406.3(E).
- E. LOCATIONS OF ELECTRICAL CONNECTIONS AND LOCAL DISCONNECTS SHALL BE COORDINATED WITH MECHANICAL AND PLUMBING CONTRACTORS TO ENSURE ACCESS AND WORKING CLEARANCE IS MAINTAINED PER NEC. NOTIFY OTHER TRADES OF REQUIRED CLEARANCE AREAS TO AVOID ROUTING OF OTHER SYSTEMS IN THESE AREAS. DO NOT INSTALL ELECTRICAL EQUIPMENT OVER EQUIPMENT NAMEPLATES OR ACCESS PANELS OR THROUGH ACCESS/MAINTENANCE CLEARANCES OF EQUIPMENT BY OTHER TRADES.
- H. NO CONDUIT SHALL BE INSTALLED UNDERGROUND, EXCEPT FOR DISTRIBUTION EQUIPMENT FEEDERS, UNLESS REQUIRED FOR THE APPLICATION (FLOOR BOXES, ISLANDS, ETC.) OR SPECIFICALLY INDICATED AS SUCH IN CONSTRUCTION DOCUMENTS. NO CONDUIT SHALL BE INSTALLED WITHIN CONCRETE SLABS.

TAGGED NOTES :

1. ROUTE FOUR (4) #2 CONDUCTORS AND ONE (1) #6 GROUND IN NEW 1-1/2" CONDUIT TO NEW 80A/3P BREAKER IN PANELBOARD INDICATED. COORDINATE ALL REQUIREMENTS PRIOR TO CONSTRUCTION.
2. INTERCEPT AND EXTEND EXISTING BRANCH CIRCUITING AND CONDUIT AS REQUIRED TO PROVIDE POWER TO NEW MECHANICAL EQUIPMENT INDICATED. ROUTE THREE (3) #12 CONDUCTORS AND ONE (1) #2 GROUND IN 3/4" CONDUIT TO EXISTING 20A/2P BREAKER IN PANELBOARD INDICATED. COORDINATE ALL REQUIREMENTS PRIOR TO CONSTRUCTION.
3. ROUTE THREE (3) #10 CONDUCTORS AND ONE (1) #10 GROUND IN NEW 3/4" CONDUIT TO NEW 20A/2P BREAKER IN PANELBOARD INDICATED. COORDINATE ALL REQUIREMENTS PRIOR TO CONSTRUCTION.
4. ROUTE TWO (2) #12 CONDUCTORS AND ONE (1) #12 GROUND IN NEW 3/4" CONDUIT TO NEW 20A/1P BREAKER IN PANELBOARD INDICATED. COORDINATE ALL REQUIREMENTS PRIOR TO CONSTRUCTION.
5. ROUTE (4) #10 CONDUCTORS AND ONE (1) #10 GROUND IN NEW 3/4" CONDUIT TO NEW 20A/3P BREAKER IN PANELBOARD INDICATED. COORDINATE ALL REQUIREMENTS PRIOR TO CONSTRUCTION.
6. ROUTE THREE (3) #12 CONDUCTORS AND ONE (1) #12 GROUND IN NEW 3/4" CONDUIT TO NEW 15A/2P BREAKER IN PANELBOARD INDICATED. COORDINATE ALL REQUIREMENTS PRIOR TO CONSTRUCTION.
7. INTERCEPT AND EXTEND EXISTING BRANCH CIRCUITING AND CONDUIT AS REQUIRED TO PROVIDE POWER TO NEW MECHANICAL EQUIPMENT INDICATED. ROUTE THREE (3) #12 CONDUCTORS AND ONE (1) #2 GROUND IN 3/4" CONDUIT TO NEW 15A/2P BREAKER IN PANELBOARD INDICATED. COORDINATE ALL REQUIREMENTS PRIOR TO CONSTRUCTION.
8. INDOOR UNIT POWERED FROM EXTERIOR UNIT. MATCH WIRE AND CONDUIT AS REQUIRED TO PROVIDE POWER. COORDINATE REQUIREMENTS WITH MECHANICAL CONTRACTOR PRIOR TO CONSTRUCTION.
9. ROUTE FOUR (4) #1 CONDUCTORS AND ONE (1) #4 GROUND IN NEW 2" CONDUIT TO NEW 80A/3P BREAKER IN PANELBOARD INDICATED. COORDINATE ALL REQUIREMENTS PRIOR TO CONSTRUCTION.
10. ROUTE FOUR (4) #4 CONDUCTORS AND ONE (1) #8 GROUND IN NEW 1-1/4" CONDUIT TO NEW 80A/3P BREAKER IN PANELBOARD INDICATED. COORDINATE ALL REQUIREMENTS PRIOR TO CONSTRUCTION.
11. ROUTE TWO (2) #12 CONDUCTORS AND ONE (1) #12 GROUND IN NEW 3/4" CONDUIT TO NEW 20A/1P BREAKER IN PANELBOARD INDICATED. COORDINATE ALL REQUIREMENTS PRIOR TO CONSTRUCTION.
12. ROUTE FOUR (4) #3 CONDUCTORS AND ONE (1) #8 GROUND IN NEW 1-1/4" CONDUIT TO NEW 80A/3P BREAKER IN PANELBOARD INDICATED. COORDINATE ALL REQUIREMENTS PRIOR TO CONSTRUCTION.
13. ROUTE (3) #12 CONDUCTORS AND (1) #12 GROUND IN 3/4" CONDUIT TO NEW 20A/2P BREAKER TO ELECTRICAL DISTRIBUTION INDICATED. COORDINATE REQUIREMENTS WITH EXISTING CONDITIONS PRIOR TO CONSTRUCTION.
14. ROUTE (4) #4 CONDUCTORS AND (1) #8 GROUND IN 1-1/4" CONDUIT TO NEW 80A/3P BREAKER TO ELECTRICAL DISTRIBUTION INDICATED. COORDINATE REQUIREMENTS WITH EXISTING CONDITIONS PRIOR TO CONSTRUCTION.
15. ROUTE (4) #8 CONDUCTORS AND (1) #10 GROUND IN 3/4" CONDUIT TO NEW 40A/3P BREAKER TO ELECTRICAL DISTRIBUTION INDICATED. INTERCEPT AND EXTEND EXISTING CIRCUIT AS REQUIRED. COORDINATE REQUIREMENTS WITH EXISTING CONDITIONS PRIOR TO CONSTRUCTION.
16. ROUTE (4) #8 CONDUCTORS AND (1) #10 GROUND IN 3/4" CONDUIT TO NEW 65A/3P BREAKER TO ELECTRICAL DISTRIBUTION INDICATED. INTERCEPT AND EXTEND EXISTING CIRCUIT AS REQUIRED. COORDINATE REQUIREMENTS WITH EXISTING CONDITIONS PRIOR TO CONSTRUCTION.
17. ROUTE (4) #6 CONDUCTORS AND (1) #8 GROUND IN 1" CONDUIT TO NEW 60A/3P BREAKER TO ELECTRICAL DISTRIBUTION INDICATED. COORDINATE REQUIREMENTS WITH EXISTING CONDITIONS PRIOR TO CONSTRUCTION.



ROOF PLAN - ELECTRICAL
SCALE: 1/16" = 1'-0"

1
E4-3.2