

HVAC SYMBOLS LIST		
NOTE: ALL SYMBOLS NOT NECESSARILY USED		
GENERAL	VALVES	
UNDERFLOOR PIPING OR DUCTWORK ----- ( ) -----	2-WAY CONTROL VALVE	
EXISTING TO REMAIN _____	3-WAY CONTROL VALVE	
EXISTING TO BE REMOVED -----	BALANCE/SHUT-OFF VALVE	
EXISTING TO BE ABANDONED _____	BALL VALVE	
	BUTTERFLY VALVE	
	CHECK VALVE	
	EXPANSION VALVE	
	ISOLATION VALVE - SEE PROJECT SPECIFICATIONS FOR REQUIREMENTS	
	GATE VALVE	
	GLOBE VALVE	
	PLUG VALVE	
	PRESSURE REDUCING VALVE	
	PRESSURE RELIEF VALVE	
	SOLENOID VALVE	
PIPING		
HEATING WATER SUPPLY ----- HWS -----		
HEATING WATER RETURN ----- HWR -----		
CHILLED WATER SUPPLY ----- CWS -----		
CHILLED WATER RETURN ----- CWR -----		
CONDENSER WATER SUPPLY ----- CS -----		
CONDENSER WATER RETURN ----- CR -----		
LOW PRESSURE STEAM ----- LPS(# ) -----		
LOW PRESSURE CONDENSATE ----- LPR(# ) -----		
HIGH PRESSURE STEAM ----- HPS(# ) -----		
HIGH PRESSURE CONDENSATE ----- HPR(# ) -----		
CONDENSATE PUMP DISCHARGE ----- CPD -----		
REFRIGERANT LIQUID ----- L -----		
REFRIGERANT SUCTION ----- S -----		
REFRIGERANT HOT GAS ----- HG -----		
COOLING COIL CONDENSATE ----- C -----		
VENT ----- V -----		
HEAT PUMP WATER SUPPLY ----- HPWS -----		
HEAT PUMP WATER RETURN ----- HPWR -----		
SPECIALTIES		
AUTOMATIC AIR VENT WITH BALL VALVE		
MANUAL AIR VENT		
CONCENTRIC INCREASER		
CONCENTRIC REDUCER		
ECCENTRIC INCREASER		
ECCENTRIC REDUCER		
FILL FUNNEL		
FLEXIBLE CONNECTION		
FLOW ARROW		
FLOW SWITCH		
GAUGE WITH BALL VALVE		
HEAT TRACED PIPE		
METER		
PIPE ANCHOR		
CAP		
DROP		
RISE		
PRESSURE/TEMPERATURE TEST PLUG		
PIPE ALIGNMENT GUIDE		
FIRE RATED PIPE SLEEVE		
SIGHT GLASS		
STRAINER		
THERMOMETER		
THRUST BLOCK		
STEAM TRAP		
UNION OR FLANGE		
VACUUM BREAKER		
VALVE IN RISER/DROP		
	MISCELLANEOUS	
	DUCT ACCESS DOOR	
	FIRE DAMPER	
	SMOKE DAMPER	
	COMB. FIRE/SMOKE DAMPER	
	DUCT VOLUME DAMPER	
	MOTOR OPERATED DAMPER	
	DUCT CHANGE IN ELEVATION	
	FLEX DUCT	
	TURNING VANES	
	SPIN-IN FITTING	
	DUCT SECTIONS	
	POSITIVE PRESSURE (SUPPLY/OUTSIDE)	
	NEGATIVE PRESSURE (RETURN/RELIEF)	
	NEGATIVE PRESSURE (EXHAUST)	
	CARBON DIOXIDE SENSOR	
	HUMIDISTAT OR HUMIDITY SENSOR (MOUNT 48" A.F.F. U.N.O.)	
	THERMOSTAT OR SPACE TEMPERATURE SENSOR (MOUNT 48" A.F.F. U.N.O.)	
	SMOKE DETECTOR BY DIV. 26 DIV. 23 TO PROVIDE DUCT ACCESS DOOR AT EACH OF THESE LOCATIONS	
	DIFFUSER	
	RETURN AIR DEVICE	
	TERMINAL BOXES, WITH/WITHOUT REHEAT	
	CONNECT TO EXISTING	

**GENERAL NOTES - HVAC (APPLY TO ALL HVAC DRAWINGS)**

- THE SYSTEM DESIGN IS BASED ON THE LATEST EDITION OF THE OHIO MECHANICAL CODE INCLUDING ALL AMENDMENTS THROUGH THE DATE OF DRAWING ISSUE.
- COORDINATE EXACT LOCATION OF DIFFUSERS, GRILLES AND REGISTERS WITH ARCHITECTURAL REFLECTED CEILING PLANS. FOR MULTIPLE LINEAR AIR DEVICES IN A CONTINUOUS ROW, INSTALL WITHOUT BORDER END CAP FOR CONTINUOUS LOOK ACROSS ROW.
- UNLESS NOTED OTHERWISE, PROVIDE DUCT TO DIFFUSERS THE SAME SIZE AS DIFFUSER NECK. PROVIDE FLEXIBLE DUCT CONNECTION TO THE DIFFUSER AND IT SHALL BE NO MORE THAN 5 FEET IN LENGTH.
- UNLESS NOTED OTHERWISE, PROVIDE DUCT TO TERMINAL BOXES THE SAME SIZE AS THE TERMINAL BOX INLET. PROVIDE TRANSITION FROM TERMINAL BOX OUTLET TO DISTRIBUTING DUCTWORK, AS REQUIRED.
- VOLUME DAMPERS:
  - PROVIDE VOLUME DAMPERS AT ALL HIGH VELOCITY DUCT CONNECTIONS TO SHAFTS AND VERTICAL RISER DUCTS.
  - PROVIDE VOLUME DAMPERS AT ALL LOW VELOCITY DUCT CONNECTIONS. THIS INCLUDES, BUT IS NOT LIMITED TO, DUCT CONNECTIONS AT SHAFTS, TAKEOFFS TO SUBMAINS (SERVING TWO OR MORE BRANCH MAINS), TAKEOFFS TO BRANCH MAINS (SERVING TWO OR MORE OUTLETS) AND BRANCHES TO SINGLE TERMINALS OR OUTLETS.
  - PROVIDE ADDITIONAL DAMPERS AS NOTED ON THE DRAWINGS.
  - THE FACT THAT SOME, BUT NOT NECESSARILY ALL, VOLUME DAMPERS ARE SHOWN ON THE CONTRACT DRAWINGS DOES NOT RELIEVE THE CONTRACTOR FROM THESE REQUIREMENTS. LOCATE VOLUME DAMPERS IN ACCESSIBLE LOCATIONS.
- PROVIDE INSULATED HWS AND HWR PIPING TO ALL AIR TERMINAL BOXES WITH REHEAT COILS, ALL CABINET UNIT HEATERS, AND ALL UNIT HEATERS. MINIMUM SIZE SHALL BE 3/4 INCH OR AS INDICATED ON THE DRAWINGS.
- PROVIDE VALVES AT ALL BRANCH CONNECTIONS TO PIPING MAINS (SHUT-OFF IN SUPPLY BRANCH CONNECTIONS AND COMBINATION BALANCE /SHUT-OFF VALVES ON ALL RETURN CONNECTIONS) AS FOLLOWS:
  - IN MECHANICAL ROOMS: ALL SUPPLY AND RETURN PIPING BRANCHES THAT SERVE MORE THAN ONE PIECE OF EQUIPMENT.
  - OUTSIDE MECHANICAL ROOMS: ALL SUPPLY AND RETURN PIPING BRANCHES THAT ARE GREATER THAN 1" AND SERVE MORE THAN ONE PIECE OF EQUIPMENT.
  - ADDITIONAL VALVE LOCATIONS AS INDICATED ON THE DRAWINGS.
  - LOCATE ALL VALVES IN ACCESSIBLE LOCATIONS FOR MAINTENANCE.
- PROVIDE A TEMPERATURE SENSOR FOR EACH TERMINAL BOX AND EACH CEILING MOUNTED CABINET UNIT HEATER. PREFERRED LOCATIONS ARE INDICATED ON THE PLANS.
- IN RETURN AIR FLENUMS, PROVIDE AIR TRANSFER OPENINGS IN FULL HEIGHT WALLS TO PROVIDE A RETURN AIR PATH FROM EACH ROOM BACK TO THE AIR HANDLING EQUIPMENT. OPENINGS SHALL BE A MINIMUM OF 1.0 SQUARE FOOT WHERE ROOM SUPPLY CFM IS LESS THAN 400 CFM AND AN ADDITIONAL 1.0 SQUARE FOOT FOR EACH 400 CFM OR PORTION THEREOF.
- COORDINATE THE LOCATION OF FIN TUBE AND COVER WITH ALL ELECTRICAL OUTLETS, INCLUDING BUT NOT LIMITED TO, POWER, VOICE, AND DATA.

HVAC SHEET INDEX		
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H305A	HVAC PIPING FIFTH FLOOR PLAN AREA A	2
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#	DATE	CHANGE DESCRIPTION

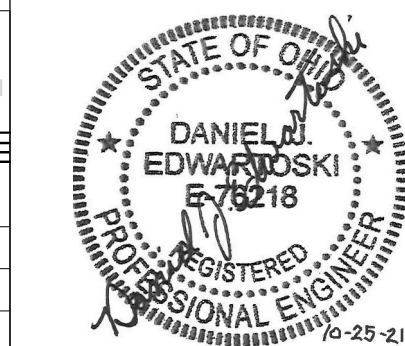
**The Greater Dayton School**  
Dwight Park Dr.  
DAYTON, OH 45404  
FOR  
**The Connor Group Kids & Community Partners**

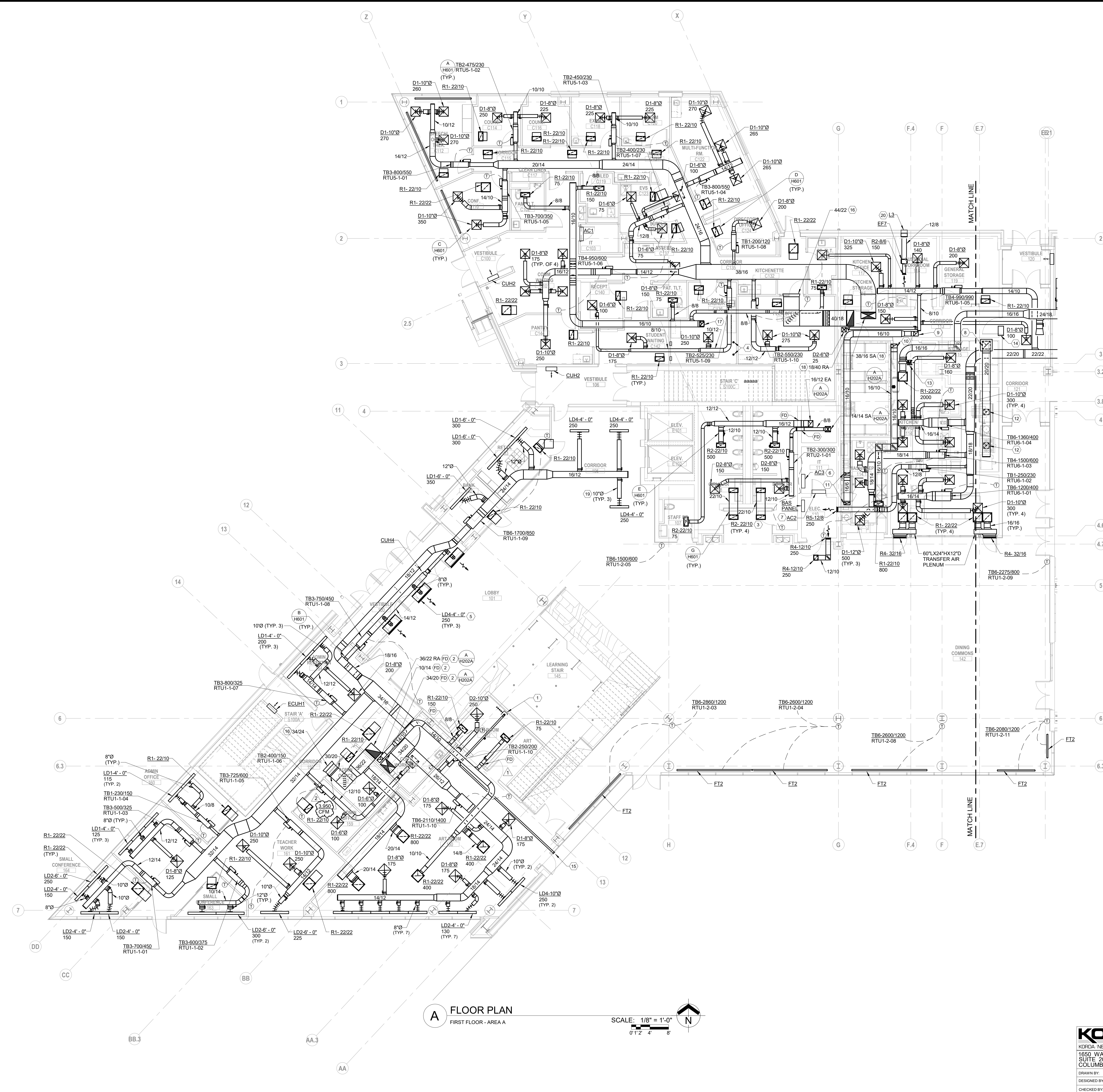
**MOODY-NOLAN**  
300 SPRUCE STREET  
SUITE 300  
COLUMBUS, OHIO 43215  
PHONE: (614) 461-4664  
FAX: (614) 280-8881

DRAWING TITLE:  
**HVAC INDEX SHEET**

10/25/21  
DRAWN BY: KORDA CHECKED BY: KORDA  
Proj. # 18187  
**H001**  
INTERIOR PACKAGE  
CONSTRUCTION DOCUMENTS

**KORDA**  
KORDA NEMETH ENGINEERING  
1650 WATERMARK DRIVE  
SUITE 200  
COLUMBUS, OHIO 43215  
DRAWN BY: Dave Bach  
DESIGNED BY: Dave Edmister  
CHECKED BY: Eric Stueben  
PROJECT NUMBER: 2018-217





- CODED NOTES:**
1. PROVIDE SKUTT ENVIRONMENT2 FAN CAPABLE OF EXHAUST 140 CFM THROUGH UP TO 60' OF 4" DUCT WITH THREE 90 DEGREE BENDS. MOUNT THE FAN TO THE WALL BEHIND THE KILN AND WITHIN 6" OF THE KILN. RUN 3" FLEXIBLE ALUMINUM DUCT BETWEEN THE KILN AND THE FAN. RUN 4" PVC FROM THE FAN TO THE EXTERIOR OF THE BUILDING. FAN PLUGS INTO WALL RECEPTACLE AND IS MANUALLY TURNED ON WITH INTEGRAL SWITCH. REFER TO KILN MANUFACTURER'S INSTALLATION INSTRUCTIONS.
  2. LOCATE FIRE DAMPER IN DUCT PENETRATION AT BOTTOM OF RATED SHAFT.
  3. TRANSFER GRILLE AND DUCTWORK WITH MINIMUM TWO ELBOWS.
  4. 4" DIAMETER LAUNDRY VENT UP THROUGH ROOF. COORDINATE FINAL LOCATIONS WITH ARCHITECT.
  5. LINEAR AIR DEVICE IN SIDEWALL WITH PLENUM. TAP OFF MAIN WITH DAMPER AND CONNECT TO BOTTOM OF LINEAR AIR DEVICE PLENUM. COORDINATION ELEVATION AND FINISH COLOR OF AIR DEVICE WITH ARCHITECT.
  6. INSTALL WALL HUNG AC3 BELOW CABLE TRAY ON WEST WALL OF IT ROOM. TOP OF UNIT SHALL BE 6'-0" A.F.F.
  7. INSTALL WALL HUNG AC2 ABOVE DOOR ON SOUTH WALL OF IT ROOM.
  8. 20/20 UP TO KITCHEN HOOD EXHAUST FAN EE6 ON ROOF. PROVIDE GREASE DUCT CLEANOUT AT BOTTOM OF VERTICAL. PROVIDE GREASE TRAP.
  9. 16/10 UP TO EXHAUST FAN EE6 ON ROOF.
  10. 12/12 UP TO EXHAUST FAN EE7 ON ROOF.
  11. PROVIDE PANT LEG DUCT FITTING. LEGS SHALL BE 16/6. MAKE CONNECTION TO (2) CONNECTIONS ON TOP OF DISHWASHER.
  12. PROVIDE TAPS OFF EXHAUST MAIN TO CONNECT TO (2) 13/14 CONNECTIONS ON GREASE HOOD. PROVIDE GREASE DUCT CLEANOUTS AT TAPS.
  13. PROVIDE MOTORIZED DAMPER AND BALANCE DAMPER. BALANCE TO 800 CFM. MOTORIZED DAMPER TO REMAIN CLOSED DURING KITCHEN HOOD OPERATION. OPEN WHEN HOOD IS NOT IN OPERATION.
  14. 24/24 TRANSFER DUCT.
  15. TERMINATE KILN EXHAUST DUCT THROUGH EXTERIOR WALL. PROVIDE CORROSION RESISTANT ALUMINUM ROUND DUCT WALL CAP WITH INTEGRAL ALUMINUM BACKDRAFT DAMPER. PAINT WALL CAP TO MATCH ADJACENT EXTERIOR FINISH. COORDINATE EXACT LOCATION WITH ARCHITECT.
  16. BELLMOUTH OPENING FOR RETURN AIR PLENUM.
  17. 16/10 UP TO EXHAUST FAN EE4 ON ROOF.
  18. UP TO RTU5.
  19. PROVIDE CABLE OPERATED DAMPER FOR ACCESS.
  20. PROVIDE SHEETMETAL PLENUM BEHIND LOUVER.

**A FLOOR PLAN**  
 FIRST FLOOR - AREA A  
 SCALE: 1/8" = 1'-0"  
 0" 1" 2" 4" 8"

#	DATE	CHANGE DESCRIPTION
1	11/12/2021	ADDENDUM 1 - INTERIOR
2	11/17/2021	ADDENDUM 2 - INTERIOR

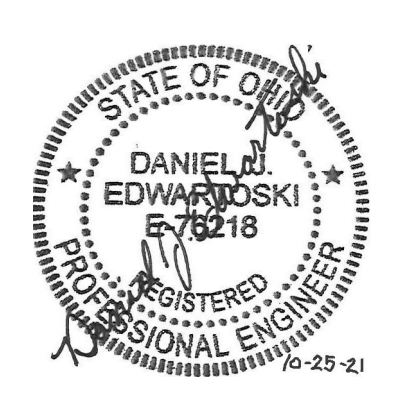
**The Greater Dayton School**  
 Dewitt Park Dr  
 DAYTON, OH 45404  
 FOR  
**The Corner Group Kids & Community Partners**

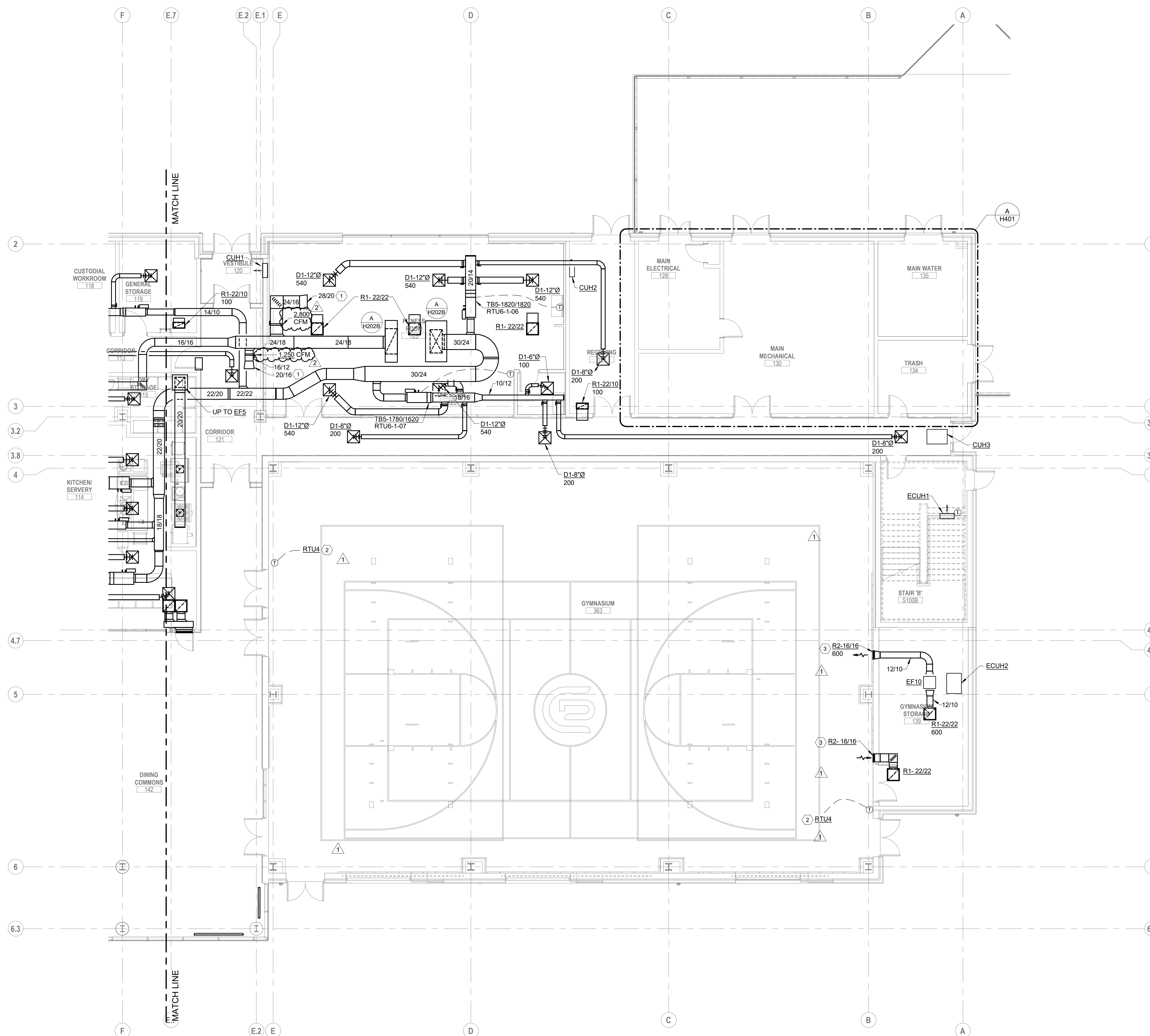
300 SPRUCE STREET  
 SUITE 300  
 COLUMBUS, OHIO 43215  
 PHONE: (614) 461-4664  
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DRAWING TITLE:  
**HVAC FIRST FLOOR PLAN AREA A**

10/25/21  
 DRAWN BY: KORDA CHECKED BY: KORDA  
 Proj. # 18187  
**H201A**  
 INTERIOR PACKAGE  
 CONSTRUCTION DOCUMENTS

**KORDA**  
 KORDA NEMETH ENGINEERING  
 1650 WATERMARK DRIVE  
 SUITE 200  
 COLUMBUS, OHIO 43215  
 DRAWN BY: Dave Bach  
 DESIGNED BY: Dan Edwards  
 CHECKED BY: Eric Swanson  
 PROJECT NUMBER: 2018-217





- CODED NOTES:**
- BELLMOUTH OPENING FOR RETURN AIR PLENUM.
  - INSTALL TEMPERATURE SENSOR BOTTOM OF DEVICE 80" A.F.F. COORDINATE LOCATION OF SENSOR WITH ARCHITECTURAL ELEVATIONS. INSTALL CONDUIT IN WALL. EXPOSED CONDUIT IS NOT ACCEPTABLE.
  - COORDINATE LOCATION OF SIDEWALL GRILLE WITH ARCHITECTURAL ELEVATIONS.

**A FLOOR PLAN**  
 FIRST FLOOR - AREA B  
 SCALE: 1/8" = 1'-0"  
 0" 1" 2" 4" 8"

#	DATE	CHANGE DESCRIPTION
1	11/12/2021	ADDENDUM 1 - INTERIOR
2	11/17/2021	ADDENDUM 2 - INTERIOR

**The Greater Dayton School**  
 2000 Park Dr.  
 DAYTON, OH 45404  
 FOR  
**The Connor Group Kids & Community Partners**

**MOODY-NOLAN**  
 300 SPRUCE STREET  
 SUITE 300  
 COLUMBUS, OHIO 43215  
 PHONE: (614) 461-4664  
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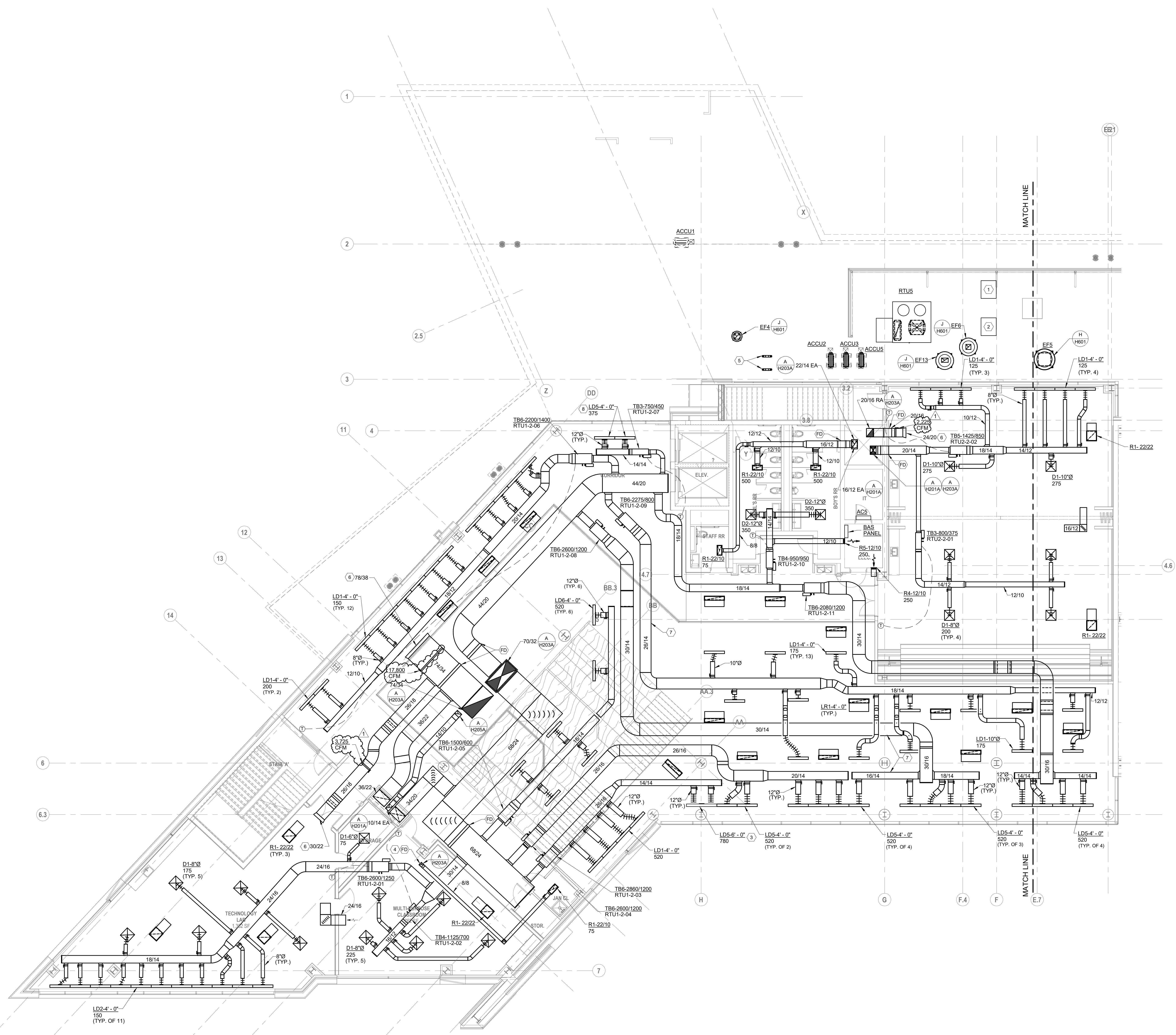
DRAWING TITLE:  
**HVAC FIRST FLOOR PLAN  
 AREA B**

**KORDA**  
 KORDA, NEMETH ENGINEERING  
 1650 WATERMARK DRIVE  
 SUITE 200  
 COLUMBUS, OHIO 43215  
 DRAWN BY: Dave Bach  
 DESIGNED BY: Dave Edmister  
 CHECKED BY: Eric Swanson  
 PROJECT NUMBER: 2018-217

**Daniel J. Edmister**  
 REGISTERED PROFESSIONAL ENGINEER  
 No. 18218  
 Exp. 12-31-21

10/25/21  
 DRAWN BY: KORDA CHECKED BY: KORDA  
 Proj. # 18187  
**H201B**  
 INTERIOR PACKAGE  
 CONSTRUCTION DOCUMENTS

- CODED NOTES:**
1. WALK IN FREEZER CONDENSING UNIT BY KITCHEN EQUIPMENT CONTRACTOR. LOCATION SHOWN FOR COORDINATION WITH MECHANICAL EQUIPMENT.
  2. WALK IN COOLER CONDENSING UNIT BY KITCHEN EQUIPMENT CONTRACTOR. LOCATION SHOWN FOR COORDINATION WITH MECHANICAL EQUIPMENT.
  3. SINGLE LINEAR DEVICE WITH TWO 12" TAPS INTO PLENUM.
  4. LOCATE FIRE DAMPER IN DUCT AT BOTTOM OF SHAFT.
  5. TERMINATE LAUNDRY VENT WITH GOOSENECK AND BIRDSCREEN. MINIMUM 18" ABOVE FINISHED ROOF.
  6. BELLMOUTH OPENING FOR RETURN AIR PLENUM.
  7. ALL EXPOSED DUCTWORK ABOVE BAFFLE AND CLOUD CEILINGS TO BE PAINTED. FINISH COLOR TO BE COORDINATED WITH ARCHITECT.
  8. PROVIDE CABLE OPERATED DAMPER FOR ACCESS.



**A FLOOR PLAN**  
SECOND FLOOR - AREA A

SCALE: 1/8" = 1'-0"  
0' 1" 2' 4' 8'

#	DATE	CHANGE DESCRIPTION
1	11/17/2021	ADDENDUM 2 - INTERIOR

**The Greater Dayton School**  
Dwight Park Ct.  
DAYTON, OH 45404  
FOR

**The Connor Group Kids & Community Partners**

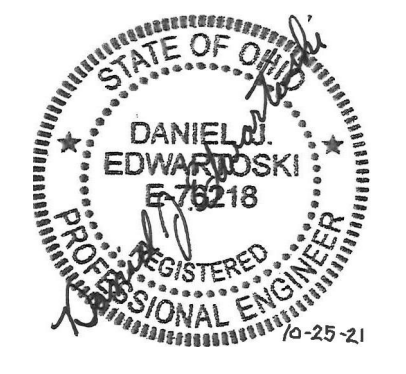
300 SPRUCE STREET  
SUITE 300  
COLUMBUS, OHIO 43215

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FAX: (614) 280-8881

DRAWING TITLE:  
**HVAC SECOND FLOOR PLAN  
AREA A**

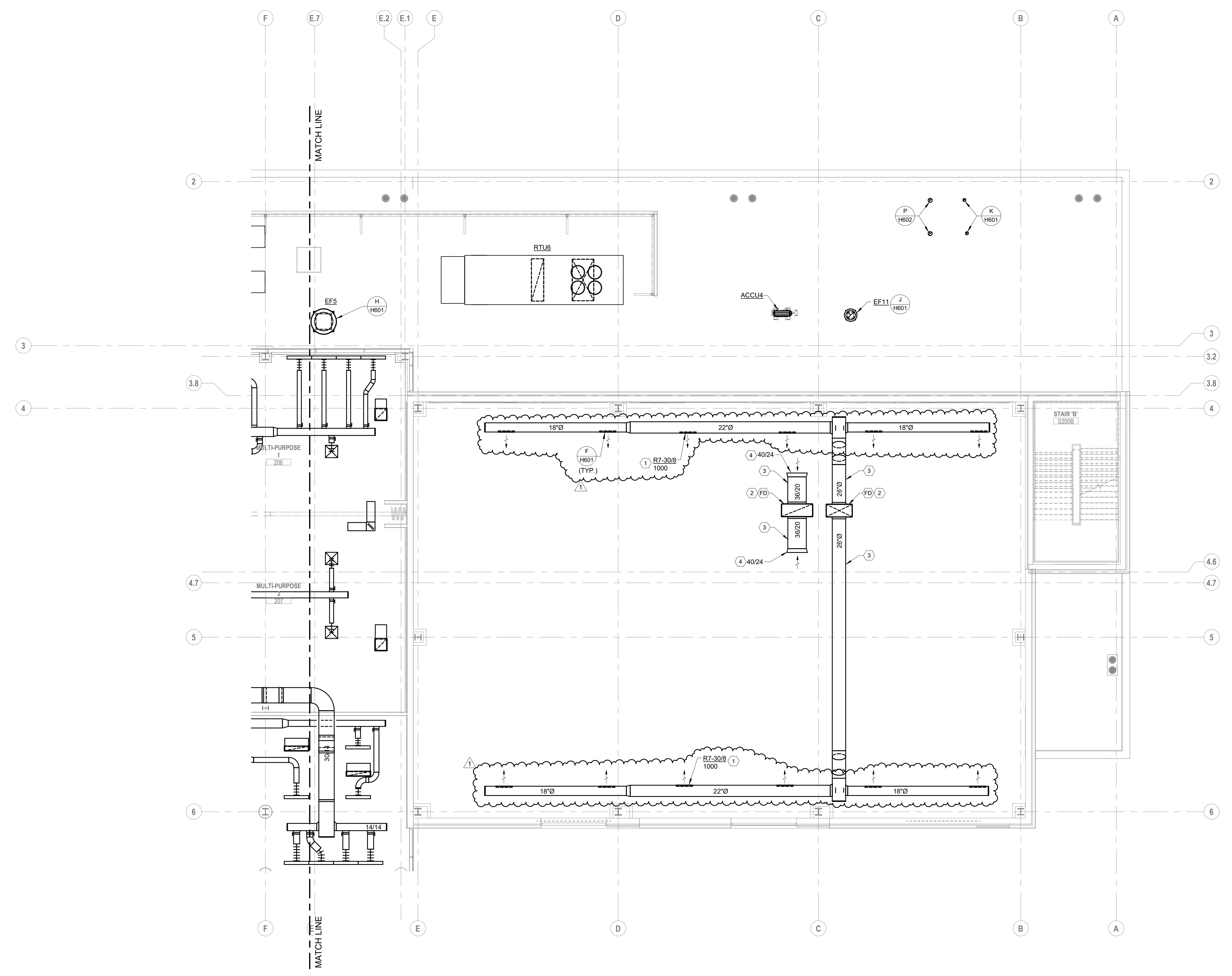
**KORDA**  
KORDA NEMETH ENGINEERING  
1650 WATERMARK DRIVE  
SUITE 200  
COLUMBUS, OHIO 43215

DRAWN BY: Dave Bach  
DESIGNED BY: Dan Edwards  
CHECKED BY: Eric Swenson  
PROJECT NUMBER: 2018-217



10/25/21	DRAWN BY: KORDA	CHECKED BY: KORDA
Proj. # 18187		
<b>H202A</b>		
INTERIOR PACKAGE CONSTRUCTION DOCUMENTS		

- CODED NOTES:**
1. ANGLE AIR FLOW 45 DEGREES DOWNWARD TOWARD CENTER OF GYMNASIUM. COORDINATE AIR DEVICES WITH SUSPENDED LIGHTING DEVICES ARE TO BE LOCATED SUCH THAT AIR IS NOT DIRECTLY ON LIGHTING.
  2. LOCATE FIRE DAMPER IN VERTICAL DUCT AT SHAFT PENETRATION.
  3. ROUTE DUCTWORK TIGHT TO UNDERSIDE OF DECK AND BETWEEN BEAMS.
  4. BELLMOUTH OPENING FOR RETURN AIR PLENUM.



**A FLOOR PLAN**  
 SECOND FLOOR - AREA B

SCALE: 1/8" = 1'-0"  
 0' 1" 2" 4" 8"

#	DATE	CHANGE DESCRIPTION
1	11/12/2021	ADDENDUM 1 - INTERIOR

**The Greater Dayton School**  
 2000 Park Ct.  
 DAYTON, OH 45404  
 FOR

**The Connor Group Kids & Community Partners**

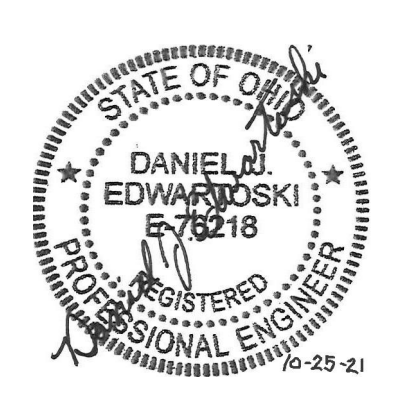
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MOODY-NOLAN

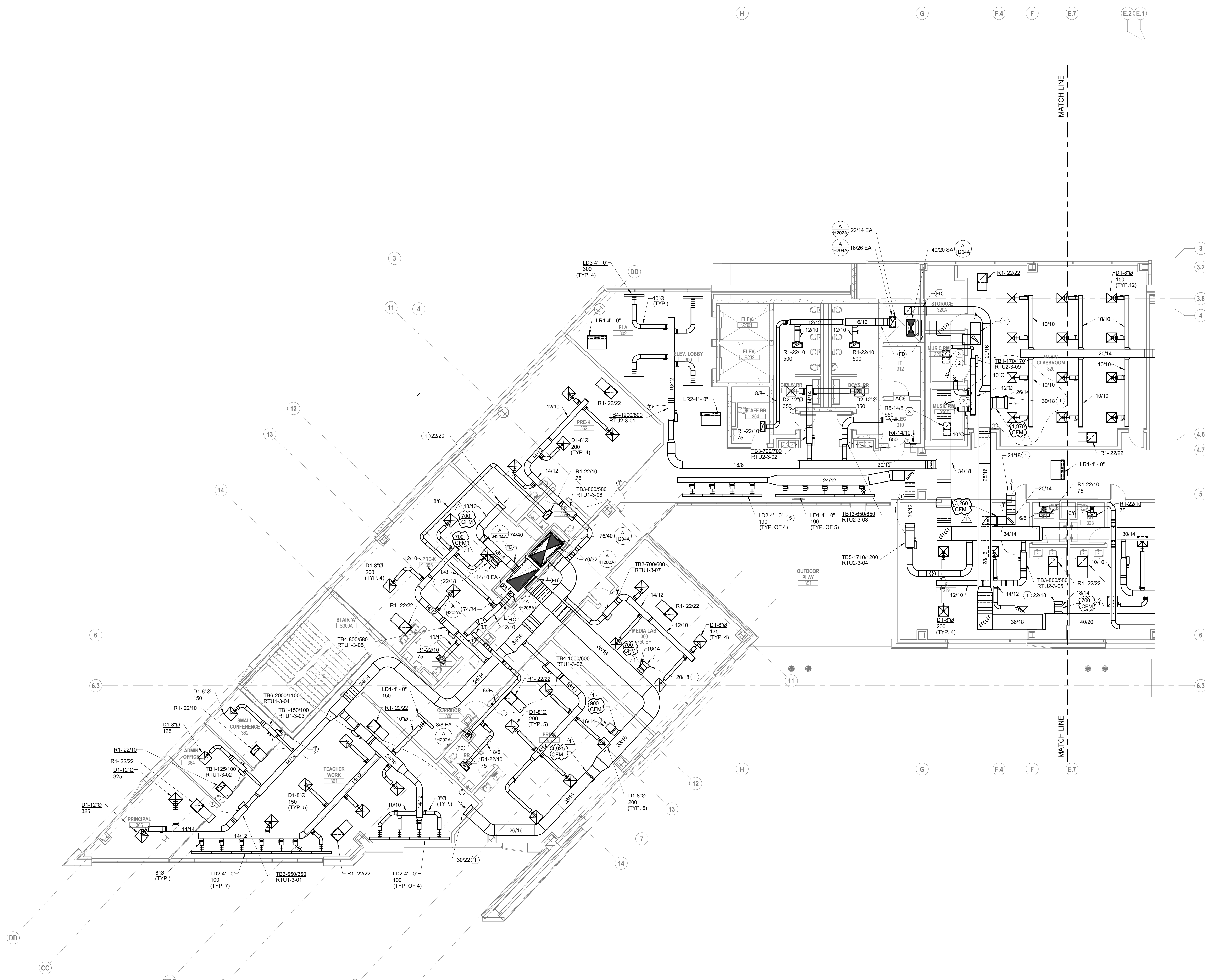
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**HVAC SECOND FLOOR PLAN  
 AREA B**

10/25/21	DRAWN BY: KORDA	CHECKED BY: KORDA
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<b>H202B</b>		
INTERIOR PACKAGE CONSTRUCTION DOCUMENTS		

**KORDA**  
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 1650 WATERMARK DRIVE  
 SUITE 200  
 COLUMBUS, OHIO 43215  
 DRAWN BY: Dave Bach  
 DESIGNED BY: Dave Edmister  
 CHECKED BY: Eric Swanson  
 PROJECT NUMBER: 2018-217



- CODED NOTES:**
- BELLMOUTH OPENING FOR RETURN AIR PLENUM.
  - 8" DIAMETER FLEX CONNECTION TO WENGER SOUND BOOTH. BALANCE NORTH BOOTH 320CFM. BALANCE SOUTH BOOTH 320CFM TO 105 CFM. COORDINATE EXACT LOCATIONS WITH EQUIPMENT.
  - 8" DIAMETER RETURN DUCT CONNECTION TO WENGER SOUND BOOTH. TRANSITION TO 16/16 RECTANGULAR RETURN BOOT WITH INTERNAL LINING. COORDINATE EXACT LOCATIONS WITH EQUIPMENT.
  - 24/12 RETURN TRANSFER DUCT.
  - PROVIDE CABLE OPERATED DAMPER FOR ACCESS.



**A FLOOR PLAN**  
 THIRD FLOOR - AREA A

SCALE: 1/8" = 1'-0"  
 0" 1/2" 1" 2" 4" 8"

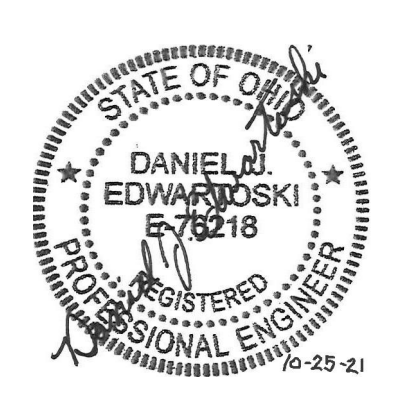
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**The Greater Dayton School**  
 300 SPRUCE STREET  
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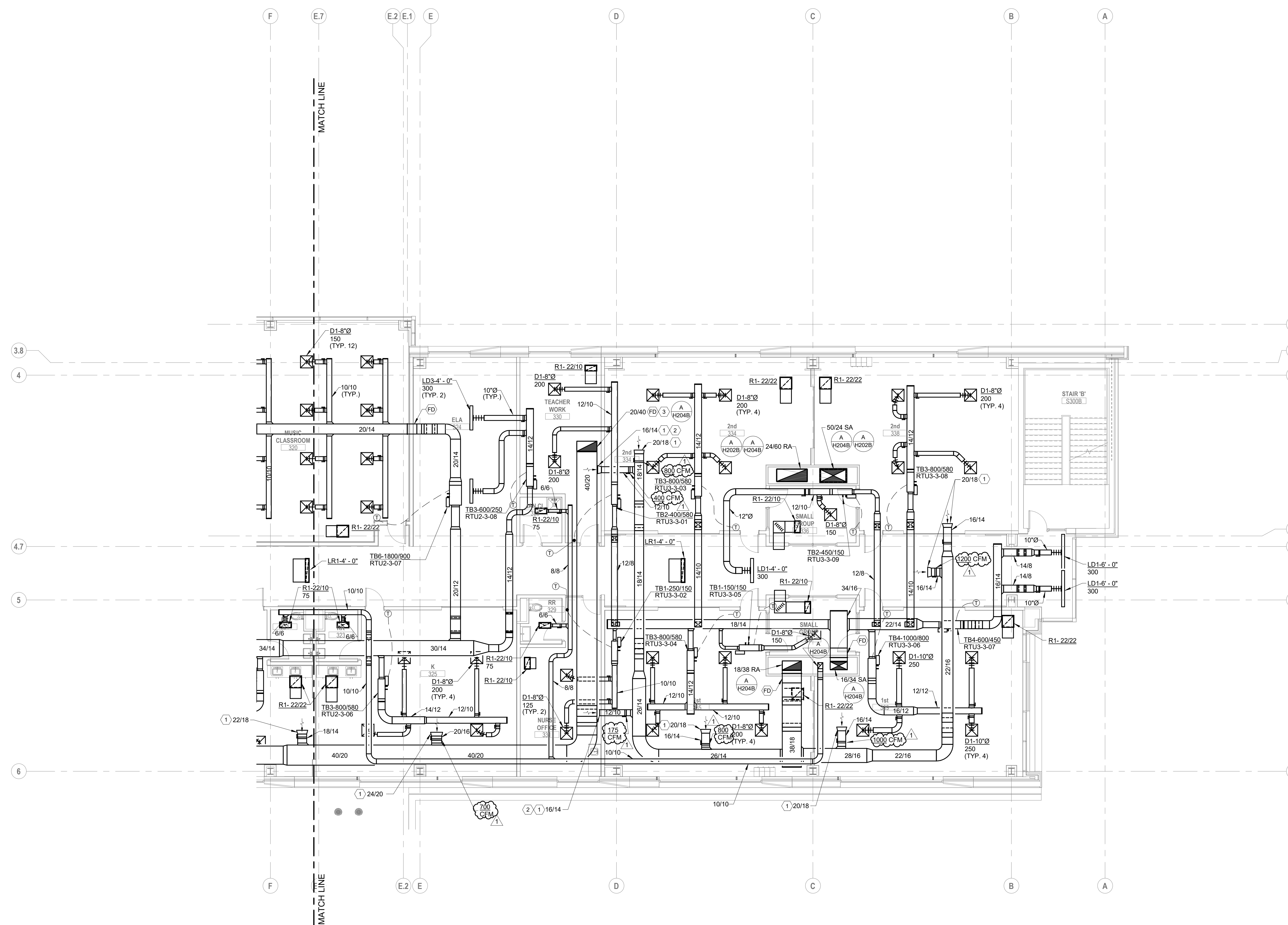
DRAWING TITLE:  
**HVAC THIRD FLOOR PLAN**  
**AREA A**

**KORDA**  
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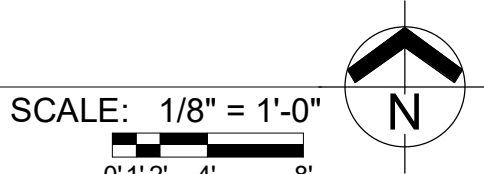


10/25/21	DRAWN BY: KORDA	CHECKED BY: KORDA
Proj. # 18187		
<b>H203A</b>		
INTERIOR PACKAGE		
CONSTRUCTION DOCUMENTS		

- CODED NOTES:**
- BELLMOUTH OPENING FOR RETURN AIR PLENUM.
  - PROVIDE CLEARANCE FOR FULL OPENING OF TRANSFER DUCT.
  - LOCATE FIRE DAMPER IN DUCT PENETRATION AT BOTTOM OF RATED SHAFT.



**A FLOOR PLAN**  
THIRD FLOOR - AREA B



#	DATE	CHANGE DESCRIPTION
1	11/17/2021	ADDENDUM 2 - INTERIOR

**The Greater Dayton School**  
Dwight Park Dr.  
DAYTON, OH 45404  
FOR

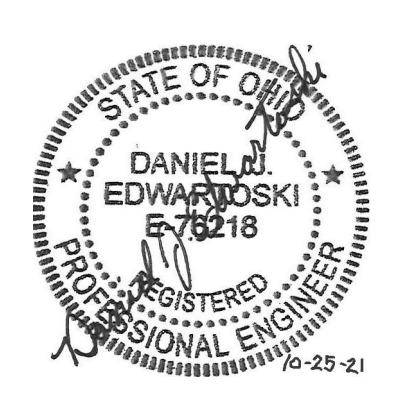
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**MOODY-NOLAN**  
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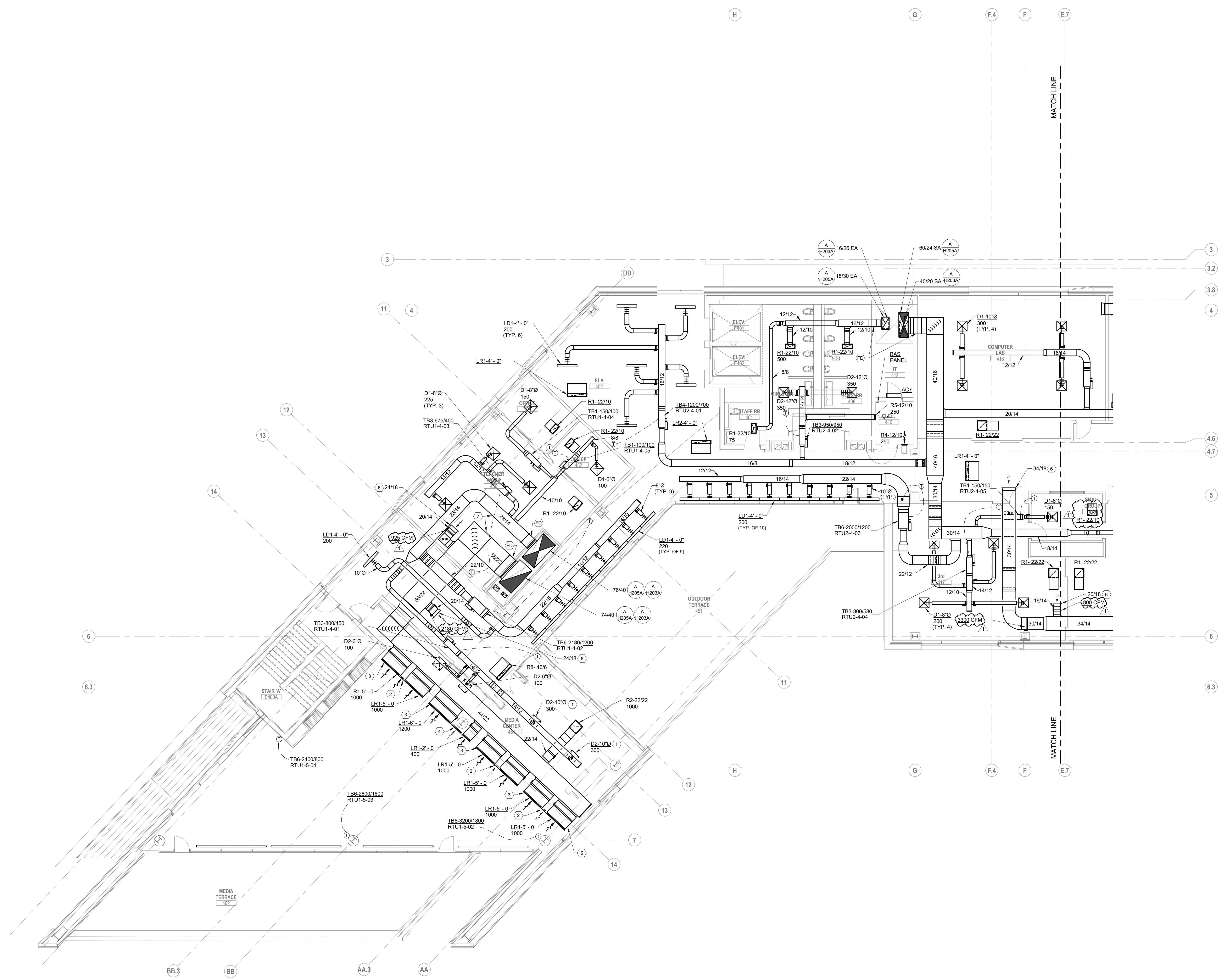
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**HVAC THIRD FLOOR PLAN  
AREA B**

10/25/21	CHECKED BY: KORDA
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<b>H203B</b>	
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- CODED NOTES:**
1. LOCATE TAP AND DAMPER AT UNDERSIDE OF DUCT.
  2. PROVIDE A 1'-0" INACTIVE SECTION AND BLANK OFF.
  3. PROVIDE BORDERS AND ACCESSORIES REQUIRED FOR A CONTINUOUS, SEAMLESS LOOK THROUGH ACTIVE AND INACTIVE SECTIONS.
  4. PROVIDE A 1'-0" INACTIVE SECTION AND BLANK OFF. COORDINATE WITH STRUCTURAL COLUMN.
  5. COORDINATE ELEVATION OF AIR DEVICES WITH ARCHITECT. TYPICAL.
  6. BELLMOUTH OPENING FOR RETURN AIR PLENUM.
  7. PROVIDE DOUBLE-WALL ACOUSTICAL DUCT PER SPECIFICATIONS.



**A FLOOR PLAN**  
 FOURTH FLOOR - AREA A  
 SCALE: 1/8" = 1'-0"  
 0' 1/2" 4" 8"

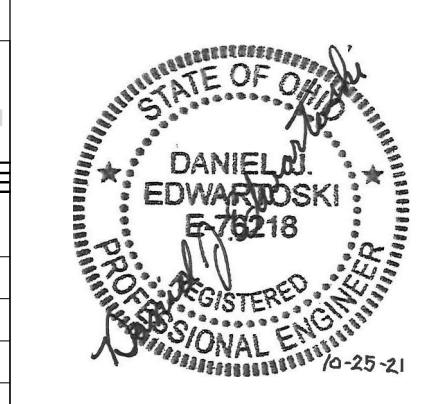
#	DATE	CHANGE DESCRIPTION
1	11/17/2021	ADDENDUM 2 - INTERIOR

**The Greater Dayton School**  
 300 SPRUCE STREET  
 SUITE 300  
 COLUMBUS, OHIO 43215  
 PHONE: (614) 461-4664  
 FAX: (614) 280-8881

**The Connor Group Kids & Community Partners**

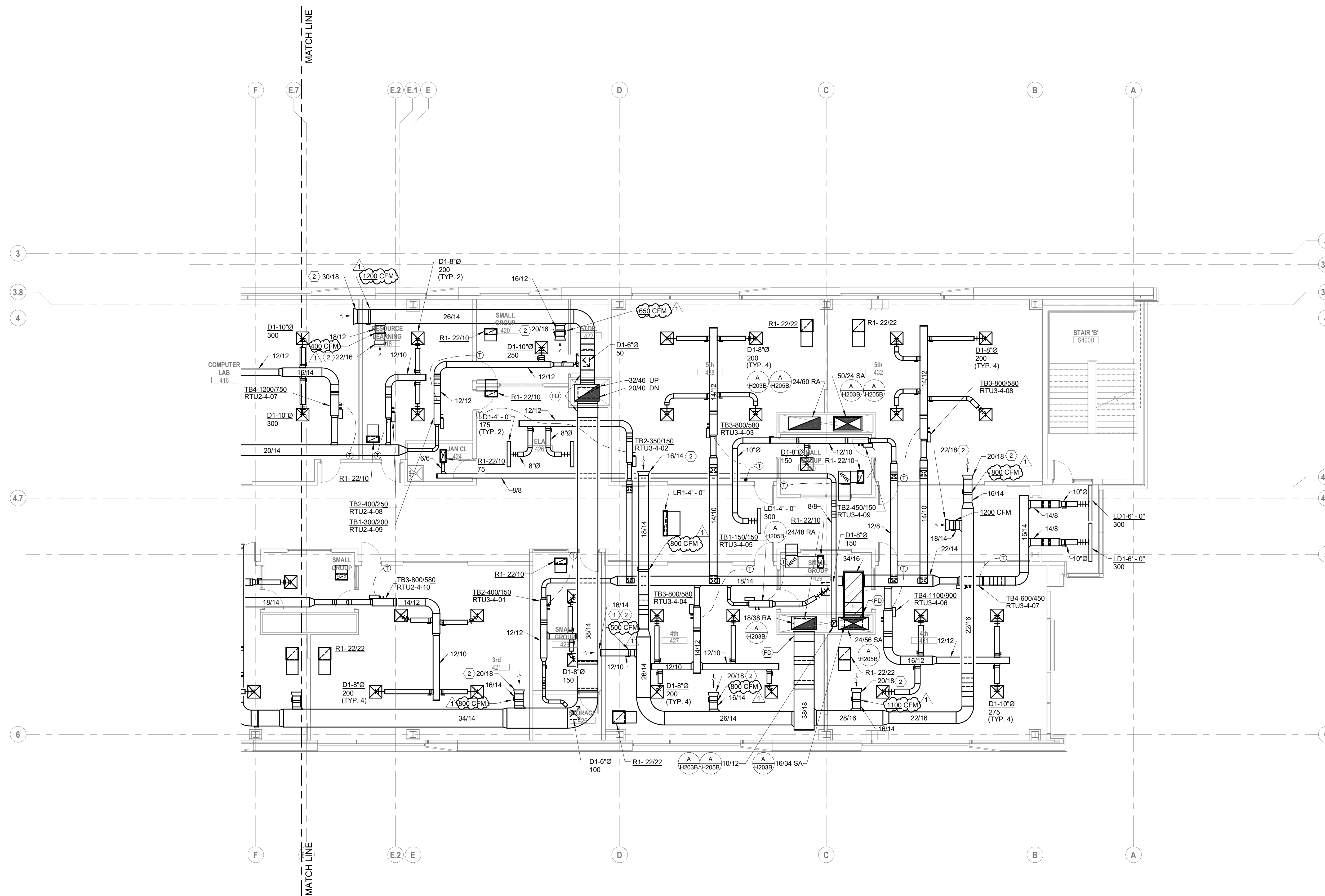
**DRAWING TITLE:**  
 HVAC FOURTH FLOOR PLAN  
 AREA A

**KORDA**  
 KORDA NEMETH ENGINEERING  
 1650 WATERMARK DRIVE  
 SUITE 200  
 COLUMBUS, OHIO 43215  
 DESIGNED BY: Dave Edwards  
 CHECKED BY: Eric Swanson  
 PROJECT NUMBER: 2018-217



10/25/21	DRAWN BY: KORDA	CHECKED BY: KORDA
Proj. # 18187		
<b>H204A</b>		
INTERIOR PACKAGE CONSTRUCTION DOCUMENTS		

- CODED NOTES:**
1. PROVIDE CLEARANCE FOR FULL OPENING OF TRANSFER DUCT.
  2. BELLMOUTH OPENING FOR RETURN AIR PLENUM.



**A FLOOR PLAN**  
FOURTH FLOOR - AREA B

SCALE: 1/8" = 1'-0"  
0" 1" 2" 4" 8"

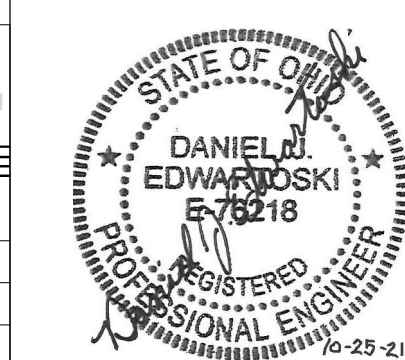
#	DATE	CHANGE DESCRIPTION
1	11/17/2021	ADDENDUM 2 - INTERIOR

**The Greater Dayton School**  
Dwight Park Ct.  
DAYTON, OH 45404  
FOR  
**The Connor Group Kids & Community Partners**

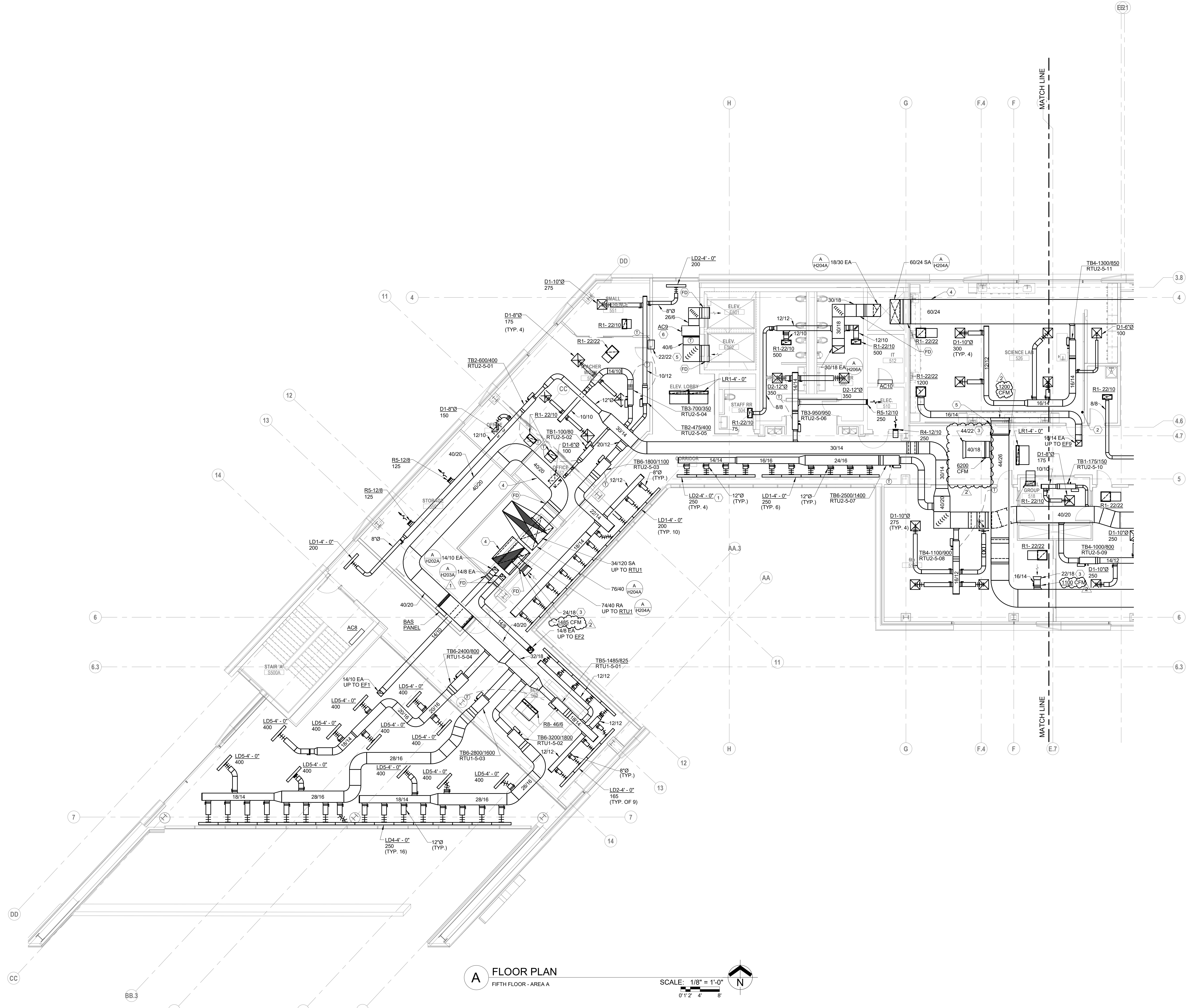
**MOODY-NOLAN**  
300 SPRUCE STREET  
SUITE 300  
COLUMBUS, OHIO 43215  
PHONE: (614) 461-4664  
FAX: (614) 280-8881

DRAWING TITLE:  
**HVAC FOURTH FLOOR PLAN  
AREA B**

**KORDA**  
KORDA NEMETH ENGINEERING  
1650 WATERMARK DRIVE  
SUITE 200  
COLUMBUS, OHIO 43215  
DRAWN BY: Dave Blach  
DESIGNED BY: Dan Edwards  
CHECKED BY: Eric Swanson  
PROJECT NUMBER: 2018-217

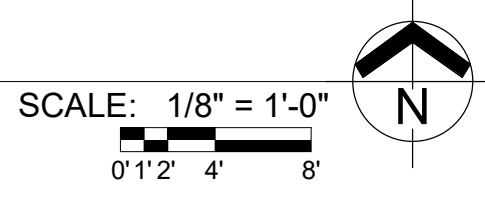


10/25/21  
DRAWN BY: KORDA CHECKED BY: KORDA  
Proj. # 18187  
**H204B**  
INTERIOR PACKAGE  
CONSTRUCTION DOCUMENTS



- CODED NOTES:**
1. PROVIDE CABLE OPERATED DAMPER FOR ACCESS.
  2. WALL SWITCH FOR MANUAL EXHAUST FAN CONTROL.
  3. BELLMOUTH OPENING FOR RETURN AIR PLENUM.
  4. PROVIDE DOUBLE-WALL ACOUSTICAL DUCT PER SPECIFICATIONS.
  5. PROVIDE CLEARANCE FOR FULL OPENING OF TRANSFER DUC.
  6. PROVIDE  $\Delta C_{99}$  TEMPERATURE SENSOR IN RETURN DUCT.

**A FLOOR PLAN**  
 FIFTH FLOOR - AREA A



#	DATE	CHANGE DESCRIPTION
1	11/12/2021	ADDENDUM 1 - INTERIOR
2	11/17/2021	ADDENDUM 2 - INTERIOR

**The Greater Dayton School**  
 Deeds Park Ct.  
 DAYTON, OH 45404  
 FOR

**The Connor Group Kids & Community Partners**

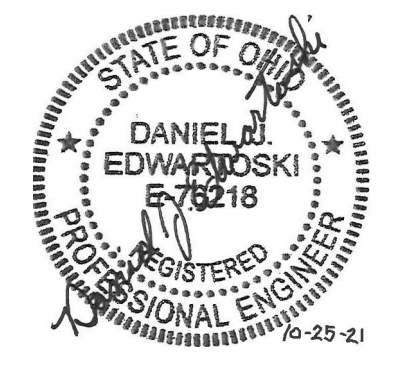
300 SPRUCE STREET  
 SUITE 300  
 COLUMBUS, OHIO 43215

PHONE: (614) 461-4664  
 FAX: (614) 280-8881

**DRAWING TITLE:**  
 HVAC FIFTH FLOOR PLAN  
 AREA A

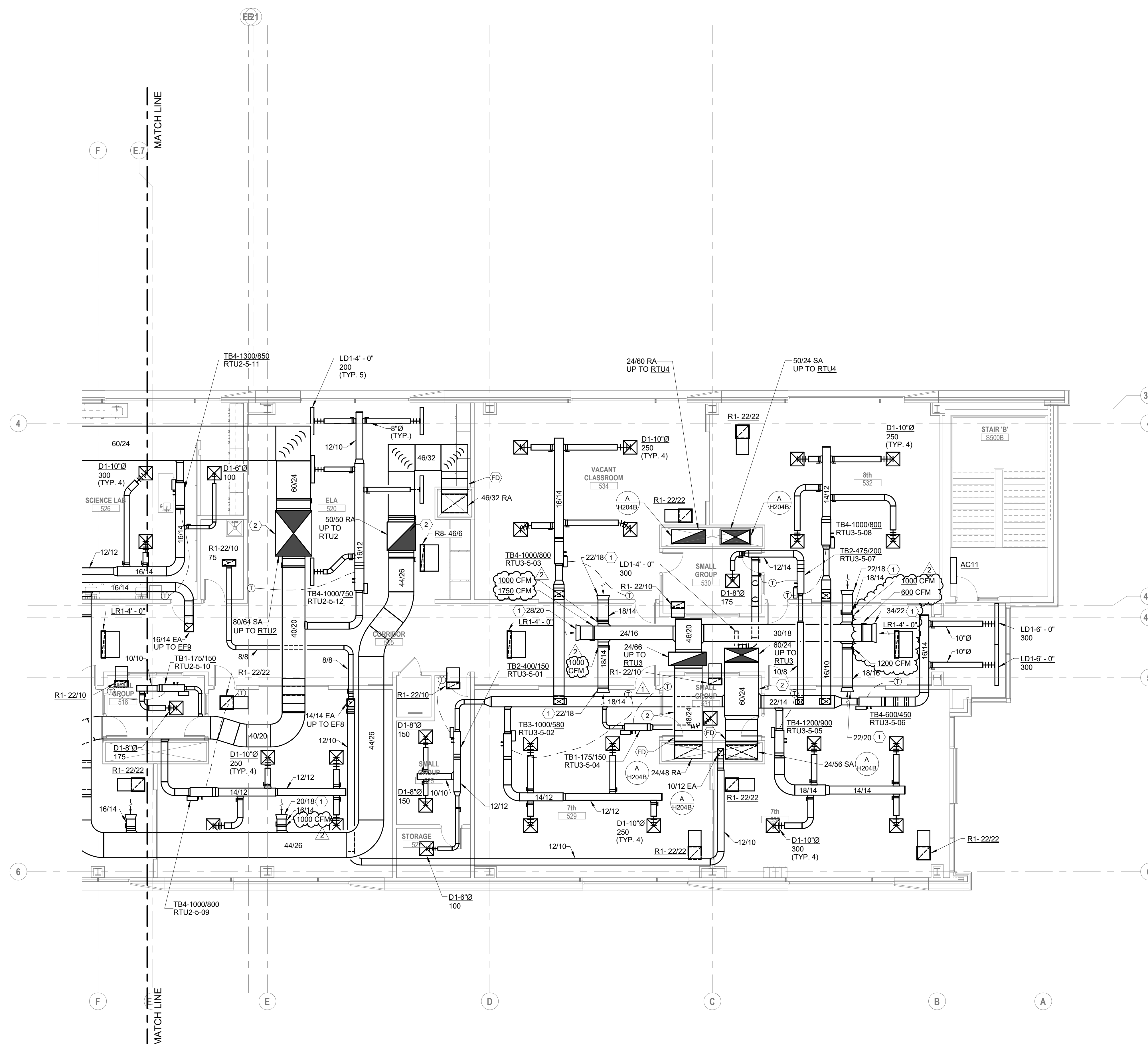
**KORDA**  
 KORDA NEMETH ENGINEERING  
 1650 WATERMARK DRIVE  
 SUITE 200  
 COLUMBUS, OHIO 43215

DESIGNED BY: Dave Edwards  
 CHECKED BY: Eric Swanson  
 PROJECT NUMBER: 2018-217



10/25/21	DRAWN BY: KORDA	CHECKED BY: KORDA
Proj. # 18187		
<b>H205A</b>		
INTERIOR PACKAGE CONSTRUCTION DOCUMENTS		

- CODED NOTES:**
- BELLMOUTH OPENING FOR RETURN AIR PLENUM
  - PROVIDE DOUBLE-WALL ACOUSTICAL DUCT PER SPECIFICATIONS.



**A FLOOR PLAN**  
FIFTH FLOOR - AREA B

SCALE: 1/8" = 1'-0"  
0" 1" 2" 4" 8"

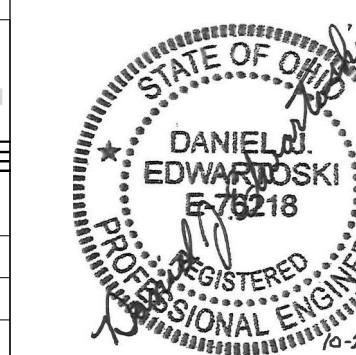
#	DATE	CHANGE DESCRIPTION
1	11/12/2021	ADDENDUM 1 - INTERIOR
2	11/17/2021	ADDENDUM 2 - INTERIOR

**The Greater Dayton School**  
Dwight Park Dr.  
DAYTON, OH 45404  
FOR  
**The Connor Group Kids & Community Partners**

**MOODY-NOLAN**  
300 SPRUCE STREET  
SUITE 300  
COLUMBUS, OHIO 43215  
PHONE: (614) 461-4664  
FAX: (614) 280-8881

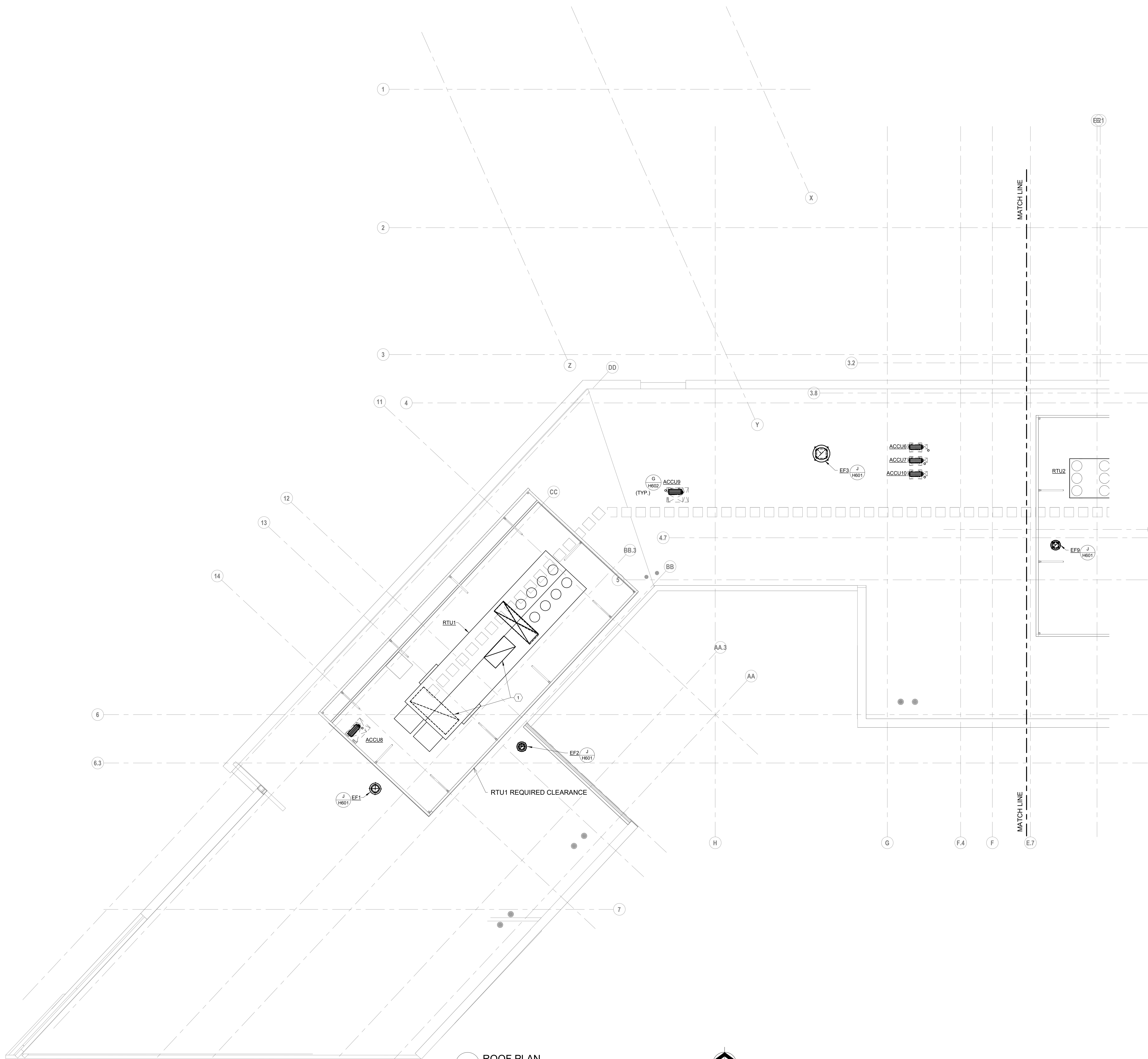
DRAWING TITLE:  
**HVAC FIFTH FLOOR PLAN  
AREA B**

**KORDA**  
KORDA NEMETH ENGINEERING  
1650 WATERMARK DRIVE  
SUITE 200  
COLUMBUS, OHIO 43215  
DRAWN BY: Dave Bach  
DESIGNED BY: Dan Edwards/Ed  
CHECKED BY: Eric Swenson  
PROJECT NUMBER: 2018-217



10/25/21  
DRAWN BY: KORDA CHECKED BY: KORDA  
Proj. # 18187  
**H205B**  
INTERIOR PACKAGE  
CONSTRUCTION DOCUMENTS

- CODED NOTES:**
1. RETURN PLENUM CURB UNDER ROOFTOP UNIT. RETURN CONNECTION FROM UNIT AND FLOOR BELOW BOTH CONNECT TO PLENUM CURB.



**A** ROOF PLAN  
ROOF - AREA A

SCALE: 1/8" = 1'-0"  
0' 1' 2' 4' 8'

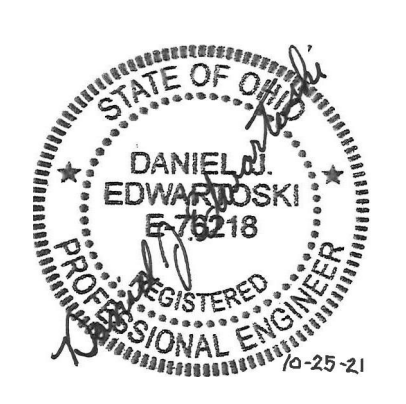
#	DATE	CHANGE DESCRIPTION

**The Greater Dayton School**  
Dwight Park Ct.  
DAYTON, OH 45404  
FOR  
**The Connor Group Kids & Community Partners**

**MOODY-NOLAN**  
300 SPRUCE STREET  
SUITE 300  
COLUMBUS, OHIO 43215  
PHONE: (614) 461-4664  
FAX: (614) 280-8881

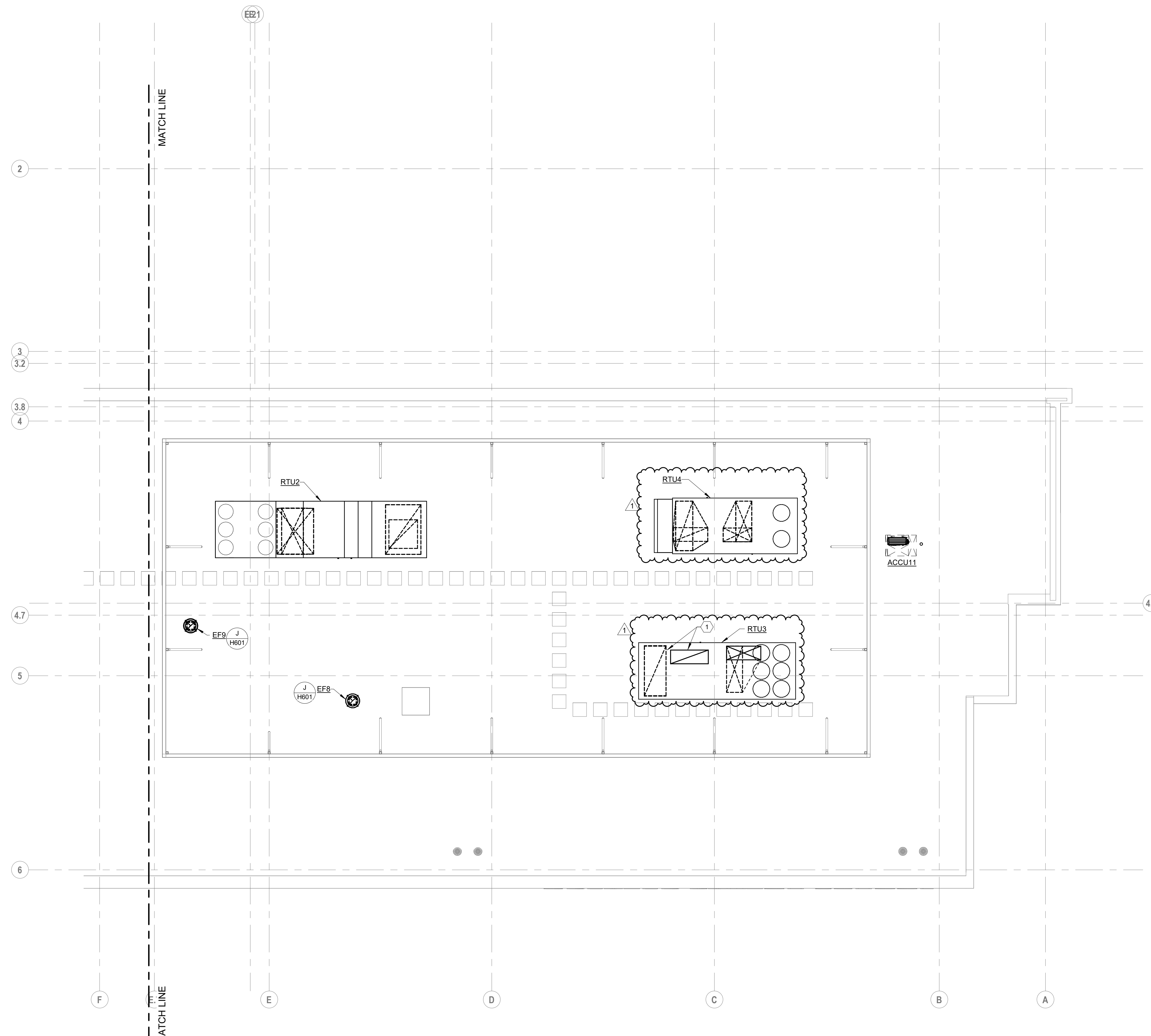
DRAWING TITLE:  
**HVAC ROOF PLAN AREA A**

**KORDA**  
KORDA NEMETH ENGINEERING  
1650 WATERMARK DRIVE  
SUITE 200  
COLUMBUS, OHIO 43215  
DRAWN BY: Dave Blach  
DESIGNED BY: Dan Edwards/Ed  
CHECKED BY: Eric Swenson  
PROJECT NUMBER: 2018-217



10/25/21  
DRAWN BY: KORDA CHECKED BY: KORDA  
Proj. # 18187  
**H206A**  
INTERIOR PACKAGE  
CONSTRUCTION DOCUMENTS

- CODED NOTES:**
- RETURN PLENUM CURB UNDER ROOFTOP UNIT. RETURN CONNECTION FROM UNIT AND FLOOR BELOW BOTH CONNECT TO PLENUM CURB.



**A ROOF PLAN**  
ROOF - AREA B

SCALE: 1/8" = 1'-0"  
0' 1" 2' 4' 8'

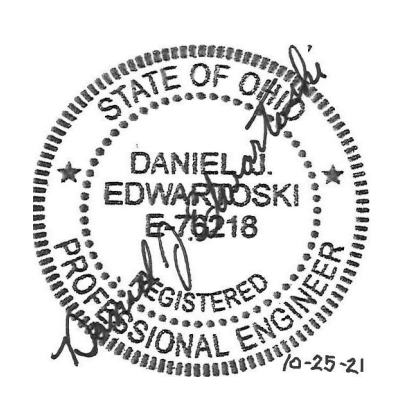
#	DATE	CHANGE DESCRIPTION
1	11/12/2021	ADDENDUM 1 - INTERIOR

**The Greater Dayton School**  
Dwight Park Ct.  
DAYTON, OH 45404  
FOR  
**The Connor Group Kids & Community Partners**

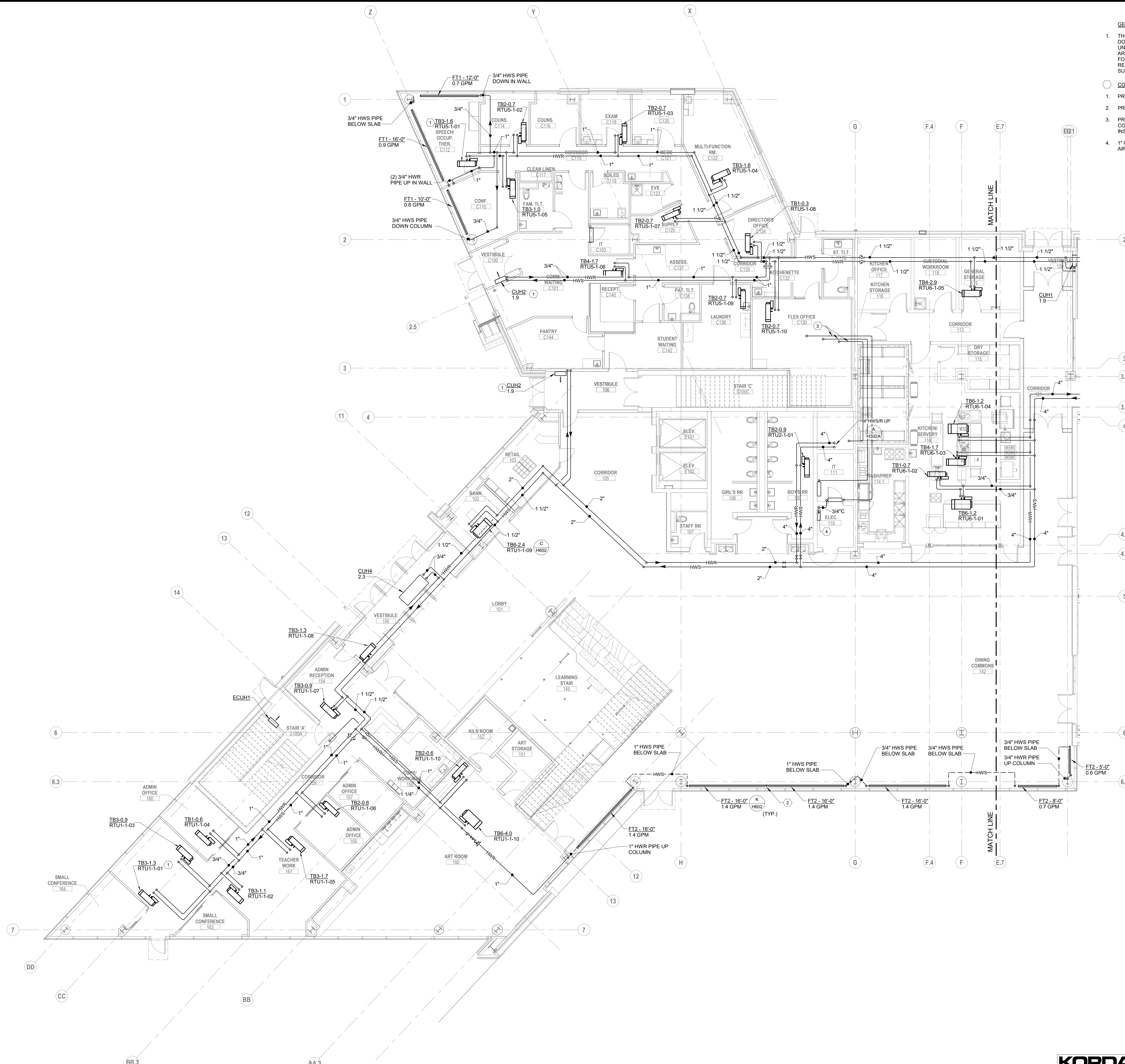
**MOODY-NOLAN**  
300 SPRUCE STREET  
SUITE 300  
COLUMBUS, OHIO 43215  
PHONE: (614) 461-4664  
FAX: (614) 280-8881

DRAWING TITLE:  
**HVAC ROOF PLAN AREA B**

**KORDA**  
KORDA, NEMETH ENGINEERING  
1650 WATERMARK DRIVE  
SUITE 200  
COLUMBUS, OHIO 43215  
DRAWN BY: Dave Bach  
DESIGNED BY: Dave Edwards/Rob  
CHECKED BY: Eric Swanson  
PROJECT NUMBER: 2018-217



10/25/21	CHECKED BY: KORDA
Proj. # 18187	
<b>H206B</b>	
INTERIOR PACKAGE	
CONSTRUCTION DOCUMENTS	



- GENERAL NOTES:**
- THIS SHEET IS FOR INFORMATION ONLY AND NOT INTENDED TO DOCUMENT ALL UNDERGROUND MECHANICAL WORK. PROPOSED UNDERGROUND PATHWAYS FOR MAJOR MECHANICAL DISTRIBUTION ARE NOTE TO ASSIST OTHER TRADES. REFER TO FIT-OUT PACKAGE FOR COMPLETE MECHANICAL DESIGN. MECHANICAL CONTRACTOR IS RESPONSIBLE FOR COORDINATING FINAL UNDERGROUND HOT WATER SUPPLY AND RETURN PIPING.
- CODED NOTES:**
- PROVIDE 3-WAY VALVE. REFER TO DETAIL AH602.
  - PROVIDE TRIM AND END PIECES FOR CONTINUOUS LOOK.
  - PROVIDE REFRIGERANT LIASET FROM INDOOR UNIT TO OUTDOOR CONDENSER UNIT ON ROOF. SIZE PER MANUFACTURER'S INSTRUCTIONS. SINGLE LINE REPRESENTS BOTH PIPES IN LIASET.
  - 1" CONDENSATE DRAIN DOWN TO FLOOR DRAIN. TERMINATE WITH 2" AIR GAP AT FLOOR DRAIN FUNNEL.

**A FLOOR PLAN**  
FIRST FLOOR - AREA A

SCALE: 1/8" = 1'-0"  
0' 1/2" 4' 8'

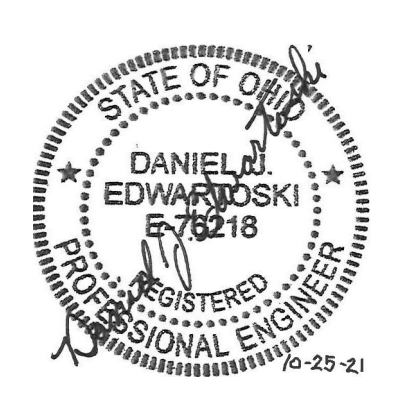
#	DATE	CHANGE DESCRIPTION

**The Greater Dayton School**  
Dwight Park Dr.  
DAYTON, OH 45404  
FOR  
**The Connor Group Kids & Community Partners**

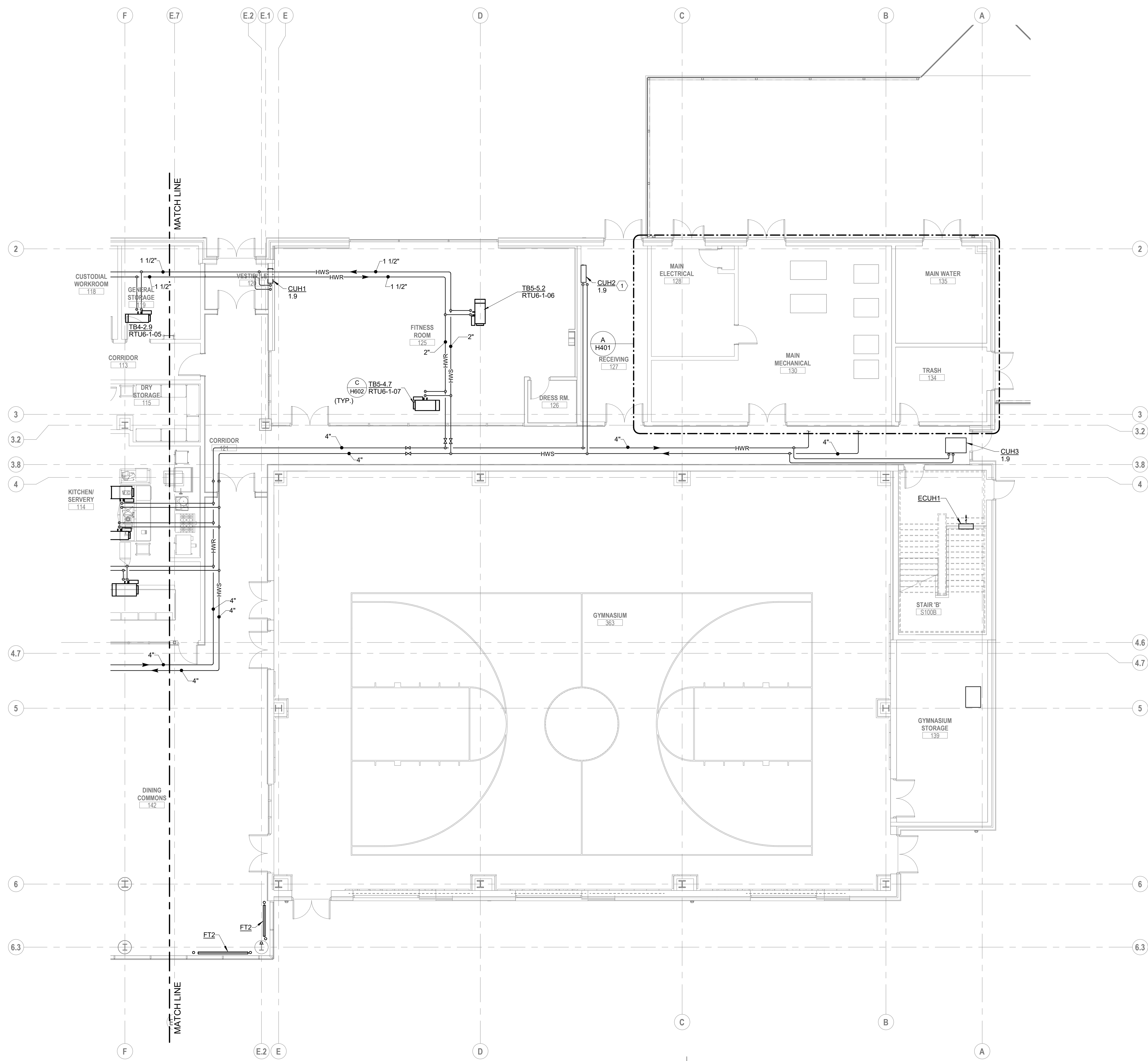
300 SPRUCE STREET  
SUITE 300  
COLUMBUS, OHIO 43215  
PHONE: (614) 461-4664  
FAX: (614) 280-8881

DRAWING TITLE:  
**HVAC PIPING FIRST FLOOR  
PLAN AREA A**

**KORDA**  
KORDA NEMETH ENGINEERING  
1650 WATERMARK DRIVE  
SUITE 200  
COLUMBUS, OHIO 43215  
DRAWN BY: Dave Bach  
DESIGNED BY: Dan Edwards  
CHECKED BY: Eric Steinhilber  
PROJECT NUMBER: 2018-217



10/25/21  
DRAWN BY: KORDA CHECKED BY: KORDA  
Proj. # 18187  
**H301A**  
INTERIOR PACKAGE  
CONSTRUCTION DOCUMENTS



- CODED NOTES:  
 1. PROVIDE 3-WAY VALVE.

**A FLOOR PLAN**  
 FIRST FLOOR - AREA B  
 SCALE: 1/8" = 1'-0"  
 0" 1" 2" 4" 8"

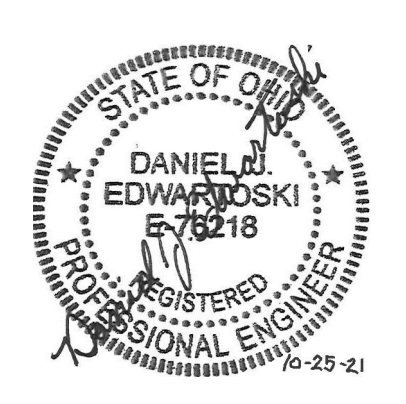
#	DATE	CHANGE DESCRIPTION

**The Greater Dayton School**  
 Devils Park Dr.  
 DAYTON, OH 45404  
 FOR  
**The Connor Group Kids & Community Partners**

**MOODY-NOLAN**  
 300 SPRUCE STREET  
 SUITE 300  
 COLUMBUS, OHIO 43215  
 PHONE: (614) 461-4664  
 FAX: (614) 280-8881

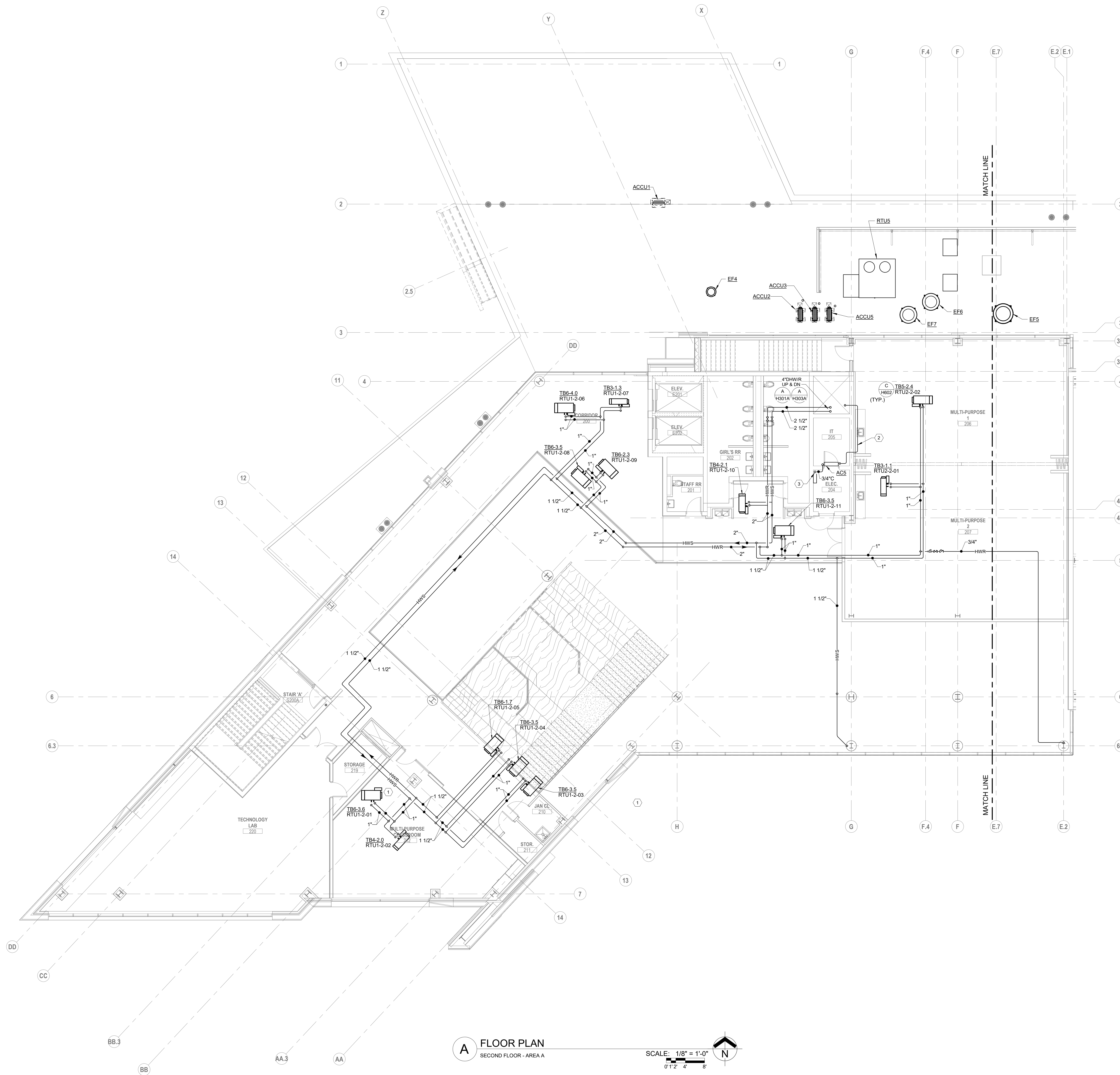
**HVAC PIPING FIRST FLOOR PLAN AREA B**

**KORDA**  
 KORDA, NEMETH ENGINEERING  
 1650 WATERMARK DRIVE  
 SUITE 200  
 COLUMBUS, OHIO 43215  
 DRAWN BY: Dave Blach  
 DESIGNED BY: Dan Edwards/Ed  
 CHECKED BY: Eric Swenson  
 PROJECT NUMBER: 2018-217



10/25/21  
 DRAWN BY: KORDA CHECKED BY: KORDA  
 Proj. # 18187  
**H301B**  
 INTERIOR PACKAGE  
 CONSTRUCTION DOCUMENTS

- CODED NOTES:**
1. PROVIDE 3-WAY VALVE.
  2. PROVIDE REFRIGERANT LINESET FROM INDOOR UNIT TO OUTDOOR CONDENSER UNIT ON ROOF. SIZE PER MANUFACTURER'S INSTRUCTIONS. SINGLE LINE REPRESENTS BOTH PIPES IN LINESET.
  3. 1" CONDENSATE DRAIN DOWN THROUGH FLOOR OPENING TO BELOW.



**A FLOOR PLAN**  
 SECOND FLOOR - AREA A

SCALE: 1/8" = 1'-0"  
 0' 1" 2" 4" 8"



#	DATE	CHANGE DESCRIPTION

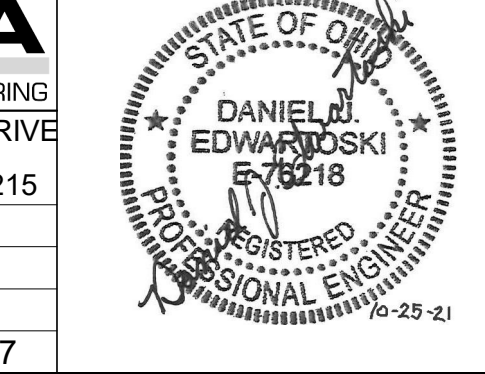
**The Greater Dayton School**  
 2000 Park Ct.  
 DAYTON, OH 45404  
 FOR  
**The Connor Group Kids & Community Partners**

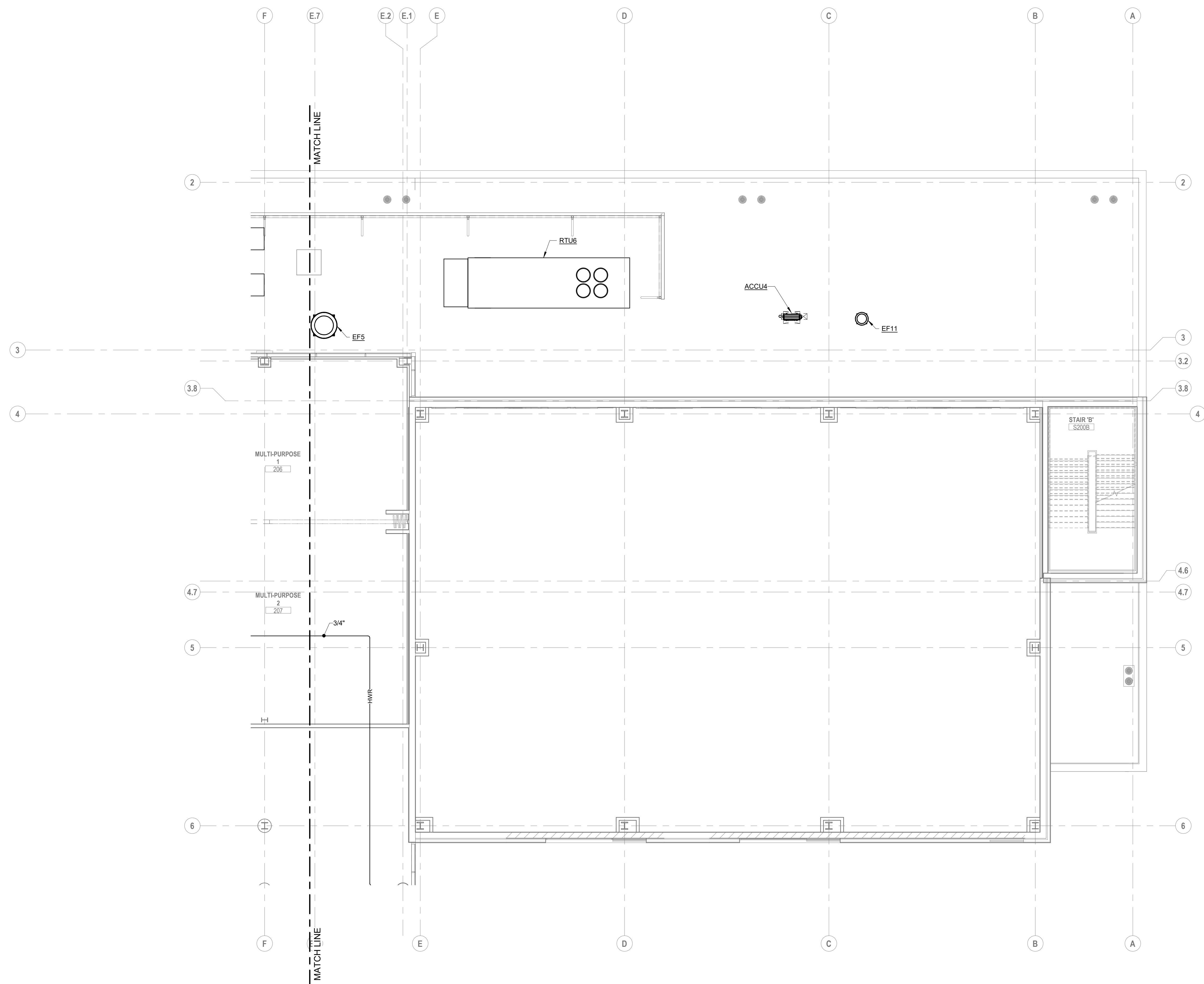
**MOODY-NOLAN**  
 300 SPRUCE STREET  
 SUITE 300  
 COLUMBUS, OHIO 43215  
 PHONE: (614) 461-4664  
 FAX: (614) 280-8881

**DRAWING TITLE:**  
 HVAC PIPING SECOND FLOOR  
 PLAN AREA A

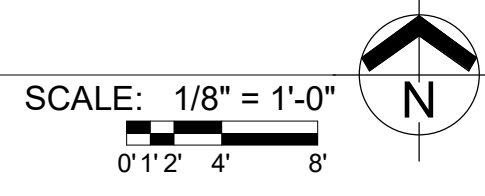
10/25/21  
 DRAWN BY: KORDA | CHECKED BY: KORDA  
 Proj. # 18187  
**H302A**  
 INTERIOR PACKAGE  
 CONSTRUCTION DOCUMENTS

**KORDA**  
 KORDA, NEMETH ENGINEERING  
 1650 WATERMARK DRIVE  
 SUITE 200  
 COLUMBUS, OHIO 43215  
 DRAWN BY: Dave Blach  
 DESIGNED BY: Dan Edwards/Rob  
 CHECKED BY: Eric Swanson  
 PROJECT NUMBER: 2018-217





**A FLOOR PLAN**  
SECOND FLOOR - AREA B



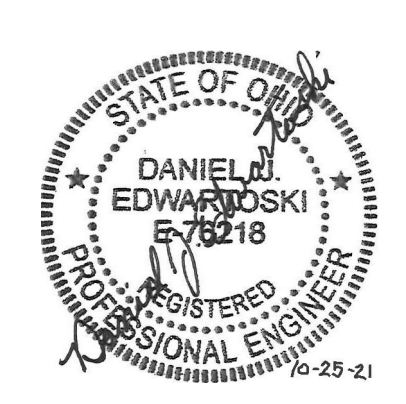
#	DATE	CHANGE DESCRIPTION

**The Greater Dayton School**  
Dwight Park Ct.  
DAYTON, OH 45404  
FOR  
**The Connor Group Kids & Community Partners**

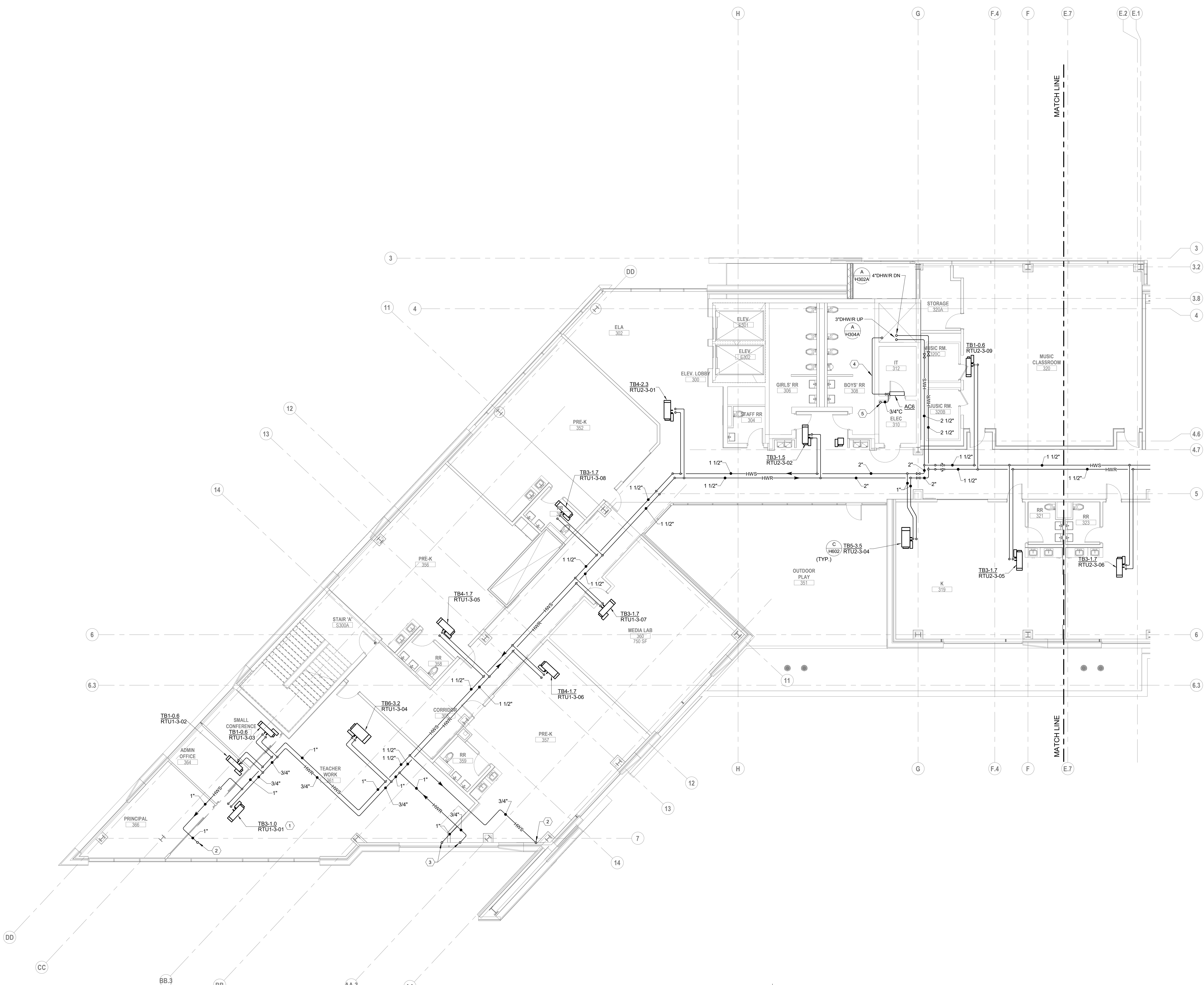
**MOODY-NOLAN**  
300 SPRUCE STREET  
SUITE 300  
COLUMBUS, OHIO 43215  
PHONE: (614) 461-4664  
FAX: (614) 280-8881

DRAWING TITLE:  
**HVAC PIPING SECOND FLOOR  
PLAN AREA B**

**KORDA**  
KORDA, NEMETH ENGINEERING  
1650 WATERMARK DRIVE  
SUITE 200  
COLUMBUS, OHIO 43215  
DRAWN BY: Dave Bach  
DESIGNED BY: Dan Edwards/MSJ  
CHECKED BY: Eric Swanson  
PROJECT NUMBER: 2018-217



10/25/21  
DRAWN BY: KORDA CHECKED BY: KORDA  
Proj. # 18187  
**H302B**  
INTERIOR PACKAGE  
CONSTRUCTION DOCUMENTS



- CODED NOTES:**
1. PROVIDE 3-WAY VALVE. REFER TO DETAIL AH602.
  2. HWS UP TO FINNED TUBE ABOVE.
  3. HWR UP TO FINNED TUBE ABOVE.
  4. PROVIDE REFRIGERANT LINESET FROM INDOOR UNIT TO OUTDOOR CONDENSER UNIT ON ROOF. SIZE PER MANUFACTURER'S INSTRUCTIONS. SINGLE LINE REPRESENTS BOTH PIPES IN LINESET.
  5. 1" CONDENSATE DRAIN DOWN THROUGH FLOOR OPENING TO BELOW.

**A FLOOR PLAN**  
THIRD FLOOR - AREA A  
SCALE: 1/8" = 1'-0"  
0' 1" 2" 4" 8"

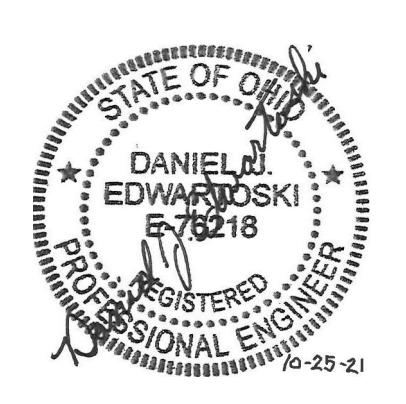
#	DATE	CHANGE DESCRIPTION

**The Greater Dayton School**  
Dwight Park Dr.  
DAYTON, OH 45404  
FOR  
**The Connor Group Kids & Community Partners**

**MOODY-NOLAN**  
300 SPRUCE STREET  
SUITE 300  
COLUMBUS, OHIO 43215  
PHONE: (614) 461-4664  
FAX: (614) 280-8881

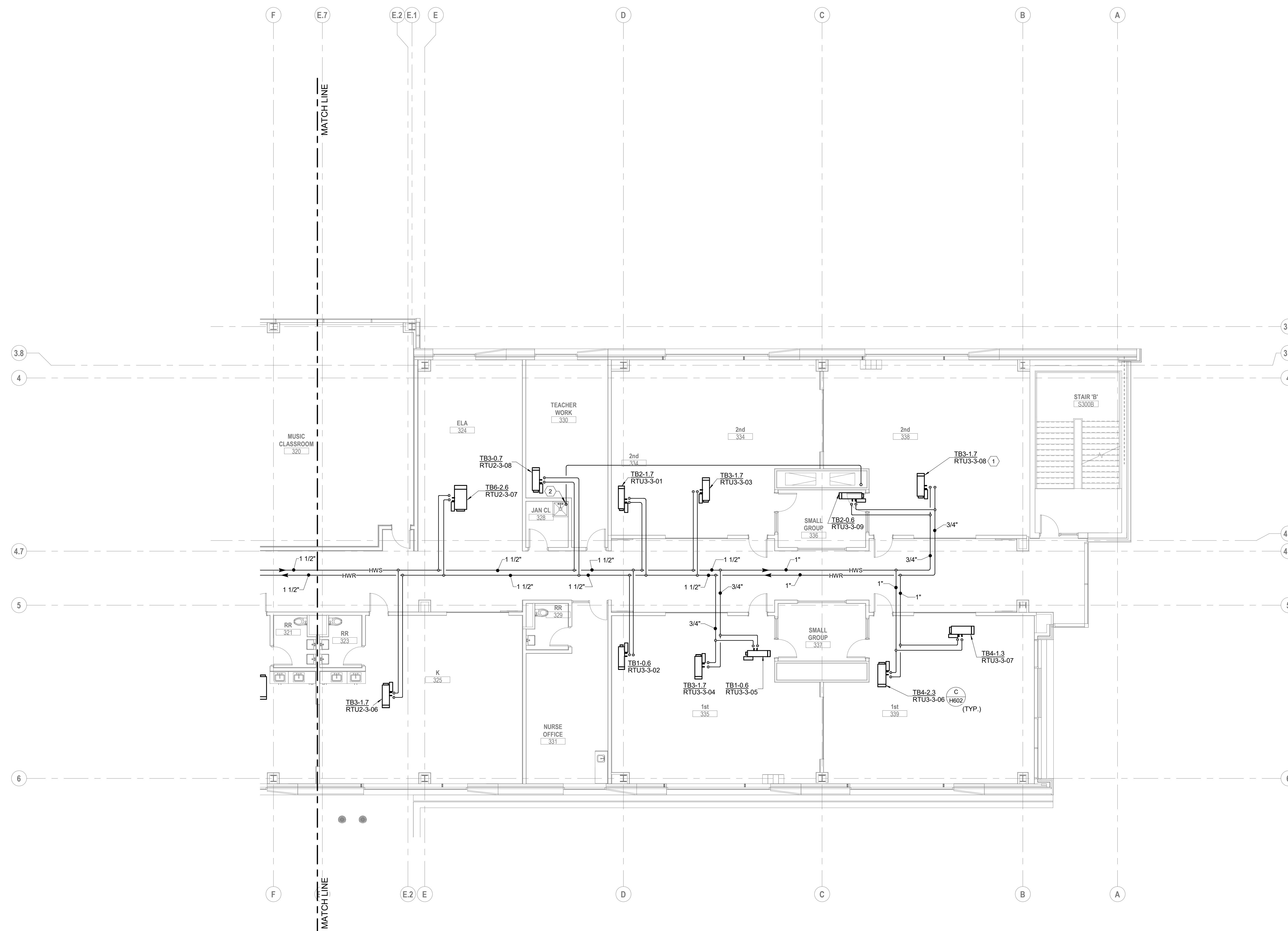
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**HVAC PIPING THIRD FLOOR  
PLAN AREA A**

**KORDA**  
KORDA NEMETH ENGINEERING  
1650 WATERMARK DRIVE  
SUITE 200  
COLUMBUS, OHIO 43215  
DRAWN BY: Dave Bach  
DESIGNED BY: Dan Edwards/Ed  
CHECKED BY: Eric Swanson  
PROJECT NUMBER: 2018-217



10/25/21	CHECKED BY: KORDA
Proj. # 18187	
<b>H303A</b>	
INTERIOR PACKAGE CONSTRUCTION DOCUMENTS	

- CODED NOTES:**
1. PROVIDE 3-WAY VALVE. REFER TO DETAIL AH602.
  2. ROUTE CONDENSATE DRAIN DOWN TO MOP SINK.



**A FLOOR PLAN**  
THIRD FLOOR - AREA B

SCALE: 1/8" = 1'-0"  
0' 1/2" 4' 8'

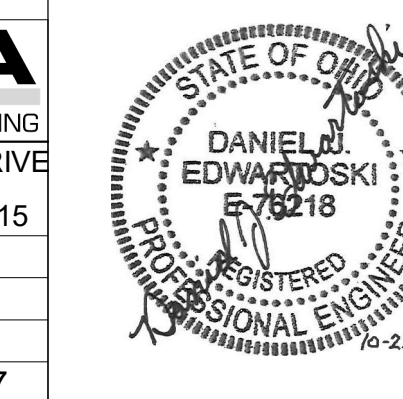
#	DATE	CHANGE DESCRIPTION

**The Greater Dayton School**  
Dwight Park Ct.  
DAYTON, OH 45404  
FOR  
**The Connor Group Kids & Community Partners**

**MOODY-NOLAN**  
300 SPRUCE STREET  
SUITE 300  
COLUMBUS, OHIO 43215  
PHONE: (614) 461-4664  
FAX: (614) 280-8881

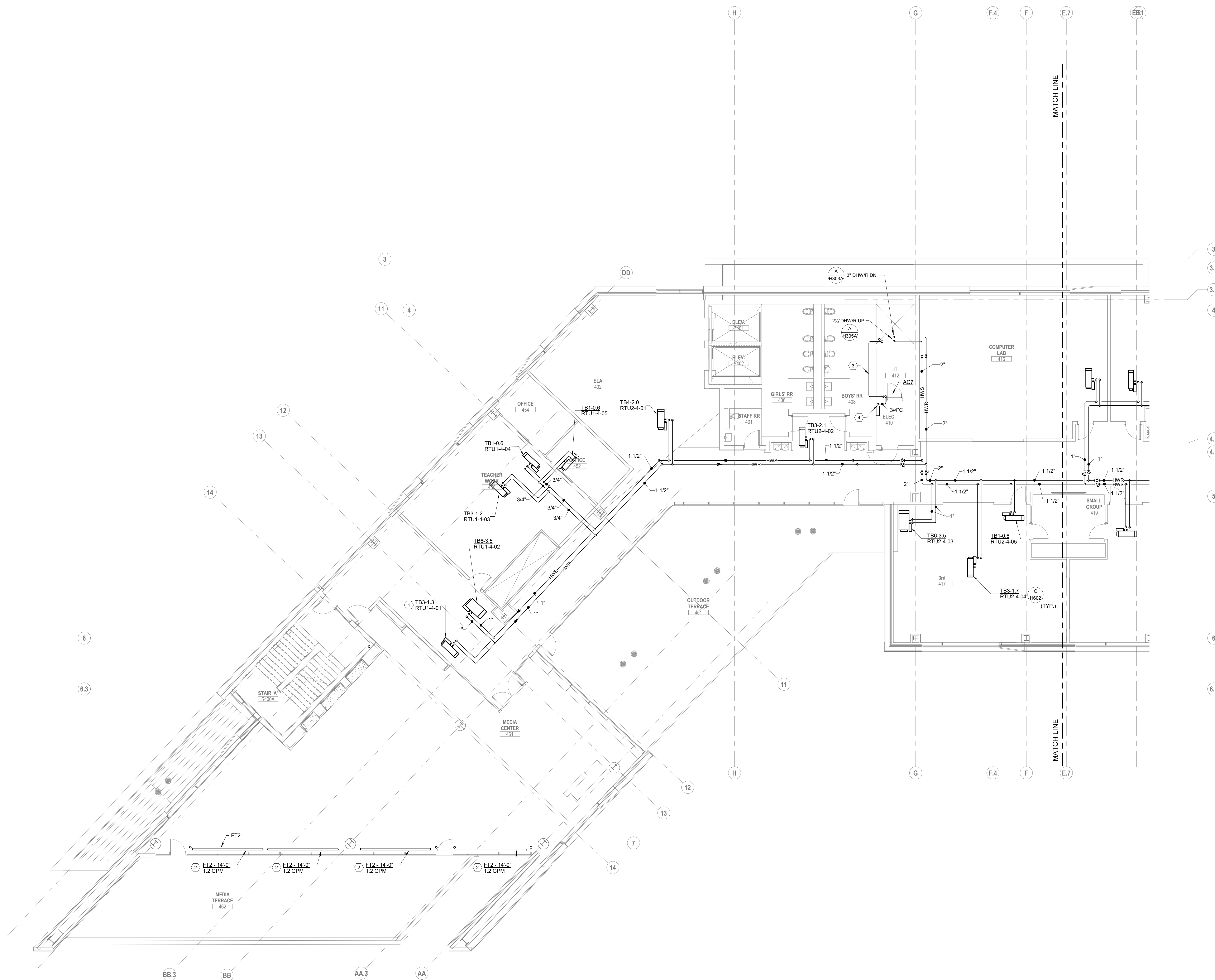
DRAWING TITLE:  
**HVAC PIPING THIRD FLOOR  
PLAN AREA B**

**KORDA**  
KORDA, NEMETH ENGINEERING  
1650 WATERMARK DRIVE  
SUITE 200  
COLUMBUS, OHIO 43215  
DRAWN BY: Dave Blach  
DESIGNED BY: Dave Edmister/Blach  
CHECKED BY: Eric Stuever  
PROJECT NUMBER: 2018-217



10/25/21	CHECKED BY: KORDA
Proj. # 18187	
<b>H303B</b>	
INTERIOR PACKAGE CONSTRUCTION DOCUMENTS	

- CODED NOTES:**
1. PROVIDE 3-WAY VALVE. REFER TO DETAIL AH602.
  2. FINNED TUBE HWS & HWR SERVED FROM THIRD FLOOR CEILING.
  3. PROVIDE REFRIGERANT LINESET FROM INDOOR UNIT TO OUTDOOR CONDENSER UNIT ON ROOF. SIZE PER MANUFACTURER'S INSTRUCTIONS. SINGLE LINE REPRESENTS BOTH PIPES IN LINESET.
  4. 1" CONDENSATE DRAIN DOWN THROUGH FLOOR OPENING TO BELOW.



**A FLOOR PLAN**  
 FOURTH FLOOR - AREA A  
 SCALE: 1/8" = 1'-0"  
 0' 1" 2' 4' 8'

#	DATE	CHANGE DESCRIPTION

**The Greater Dayton School**  
 Deeds Park Dr.  
 DAYTON, OH 45404  
 FOR  
**The Connor Group Kids & Community Partners**

**MOODY-NOLAN**  
 300 SPRUCE STREET  
 SUITE 300  
 COLUMBUS, OHIO 43215  
 PHONE: (614) 461-4664  
 FAX: (614) 280-8881

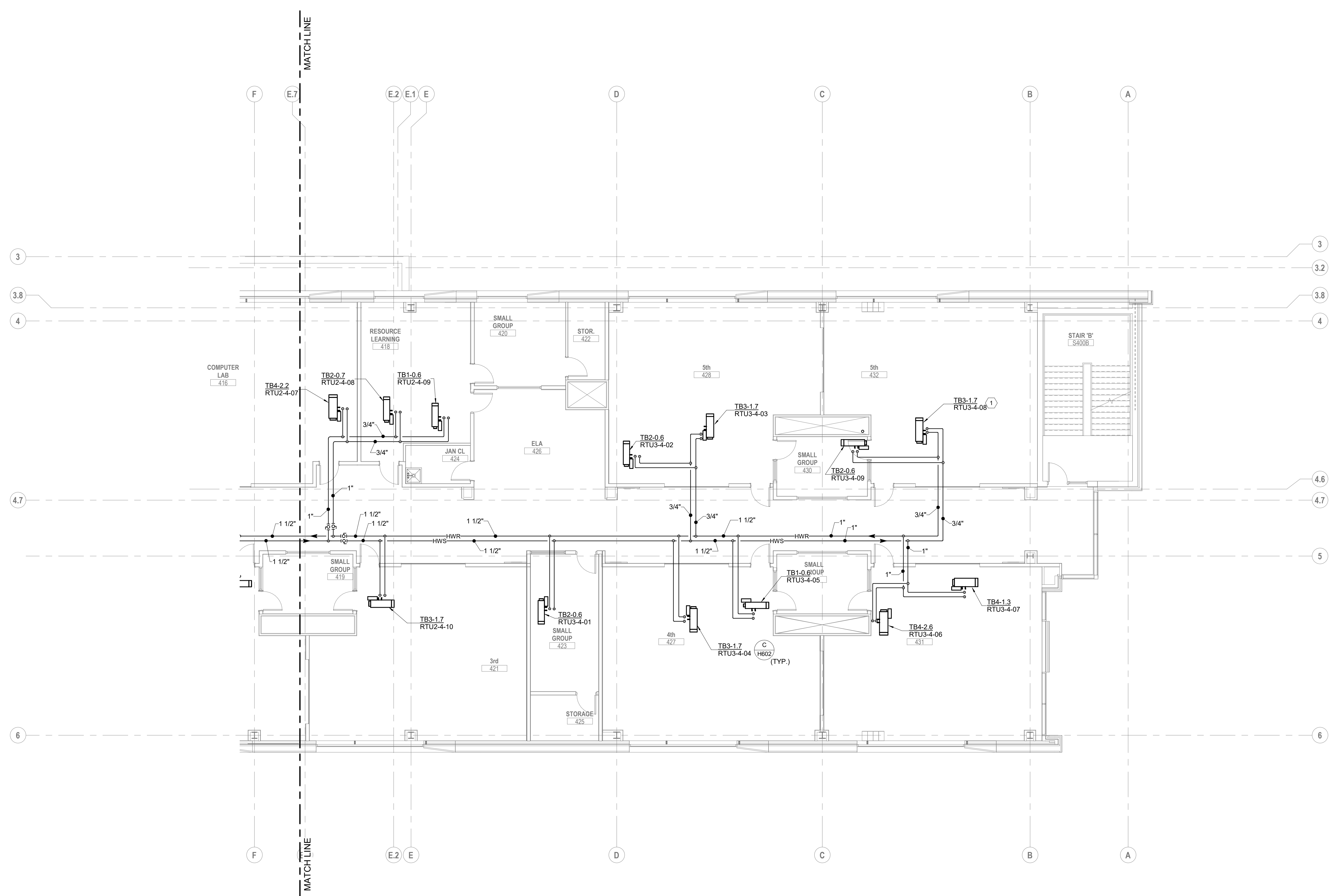
DRAWING TITLE:  
**HVAC PIPING FOURTH FLOOR PLAN AREA A**

10/25/21  
 DRAWN BY: KORDA CHECKED BY: KORDA  
 Proj. # 18187  
**H304A**  
 INTERIOR PACKAGE  
 CONSTRUCTION DOCUMENTS

**KORDA**  
 KORDA, NEMETH ENGINEERING  
 1650 WATERMARK DRIVE  
 SUITE 200  
 COLUMBUS, OHIO 43215  
 DRAWN BY: Dave Bach  
 DESIGNED BY: Dan Edwards  
 CHECKED BY: Eric Swanson  
 PROJECT NUMBER: 2018-217

**DANIEL J. EDWARDS**  
 REGISTERED PROFESSIONAL ENGINEER  
 No. 10218  
 State of Ohio

- CODED NOTES:**
1. PROVIDE 3-WAY VALVE. REFER TO DETAIL AH602.



**A FLOOR PLAN**  
FOURTH FLOOR - AREA B

SCALE: 1/8" = 1'-0"  
0' 1' 2' 4' 8'

#	DATE	CHANGE DESCRIPTION

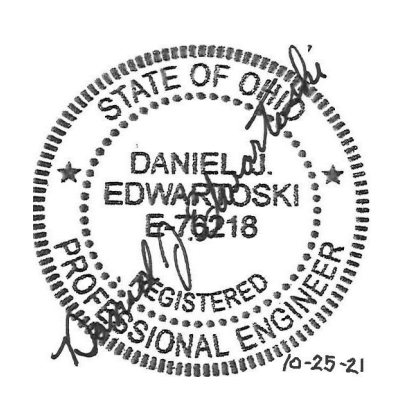
**The Greater Dayton School**  
Dwight Park Dr.  
DAYTON, OH 45404  
FOR  
**The Connor Group Kids & Community Partners**

**MOODY-NOLAN**  
300 SPRUCE STREET  
SUITE 300  
COLUMBUS, OHIO 43215  
PHONE: (614) 461-4664  
FAX: (614) 280-8881

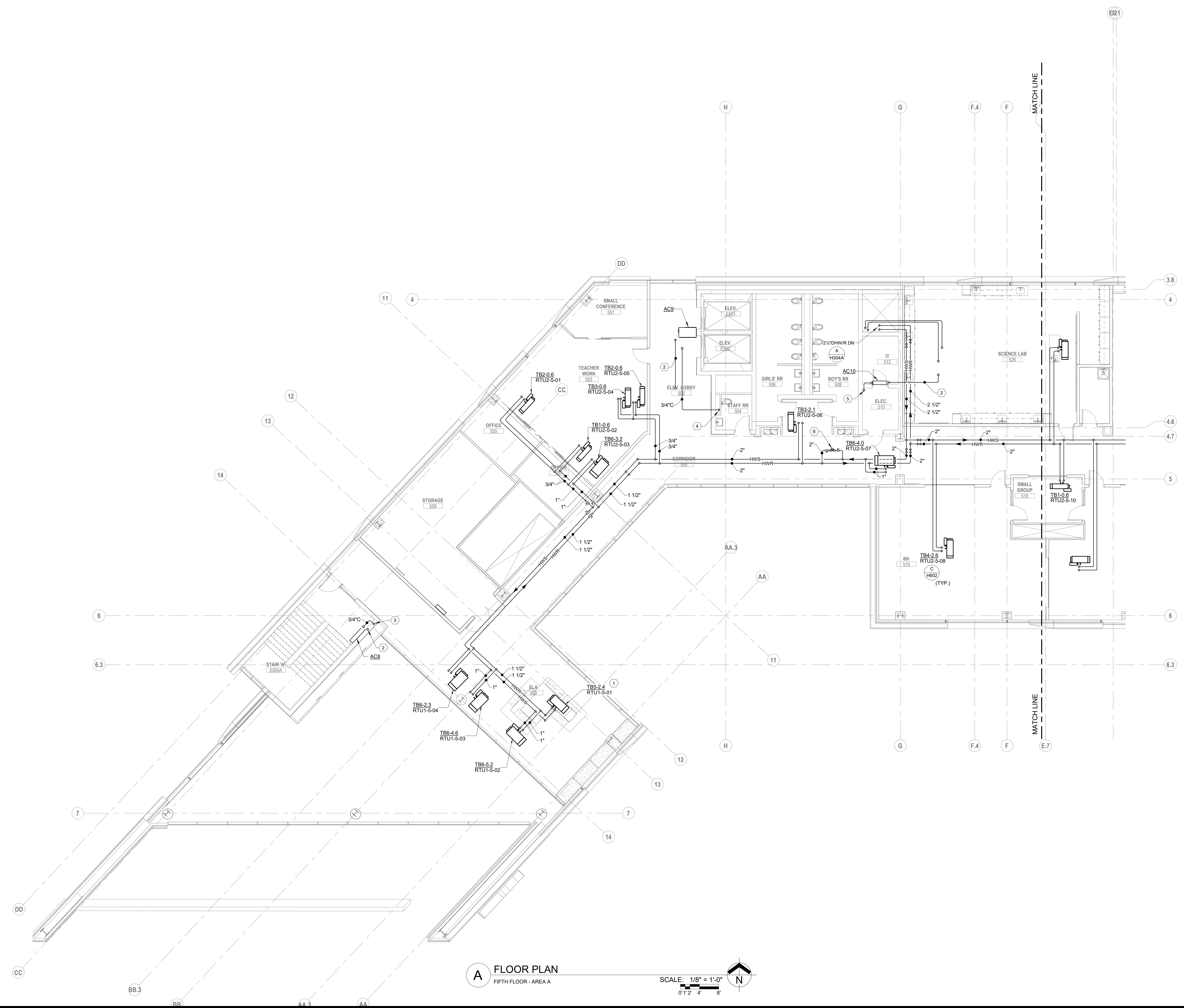
DRAWING TITLE:  
**HVAC PIPING FOURTH FLOOR  
PLAN AREA B**

10/25/21	CHECKED BY: KORDA
10/25/21	DRAWN BY: KORDA
Proj. # 18187	
<b>H304B</b>	
INTERIOR PACKAGE CONSTRUCTION DOCUMENTS	

**KORDA**  
KORDA, NEMETH ENGINEERING  
1650 WATERMARK DRIVE  
SUITE 200  
COLUMBUS, OHIO 43215  
DRAWN BY: Dave Blach  
DESIGNED BY: Dan Edmister/MS  
CHECKED BY: Eric Stuever  
PROJECT NUMBER: 2018-217



- CODED NOTES:**
1. PROVIDE 3-WAY VALVE. REFER TO DETAIL AH602.
  2. PROVIDE REFRIGERANT LINESET FROM INDOOR UNIT TO OUTDOOR CONDENSER UNIT ON ROOF. SIZE PER MANUFACTURER'S INSTRUCTIONS. SINGLE LINE REPRESENTS BOTH PIPES IN LINESET.
  3. ROUTE CONDENSATE DRAIN DOWN TO BELOW.
  4. ROUTE CONDENSATE DRAIN DOWN TO WALL BOX.
  5. 3/4" CONDENSATE DRAIN DOWN THROUGH FLOOR OPENING TO BELOW.
  6. MINIMUM FLOW MODULATING TWO-WAY BYPASS VALVE.



**A FLOOR PLAN**  
FIFTH FLOOR - AREA A  
SCALE: 1/8" = 1'-0"  
0" 1" 2" 4" 8"

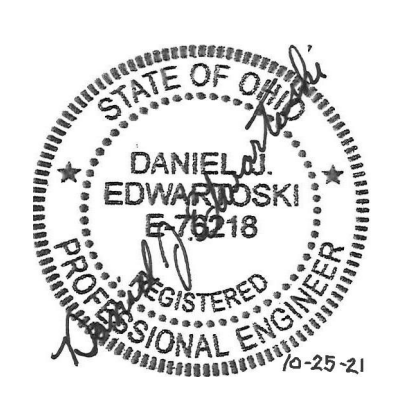
#	DATE	CHANGE DESCRIPTION

**The Greater Dayton School**  
Dwight Park Dr.  
DAYTON, OH 45404  
FOR  
**The Connor Group Kids & Community Partners**

**MOODY-NOLAN**  
300 SPRUCE STREET  
SUITE 300  
COLUMBUS, OHIO 43215  
PHONE: (614) 461-4664  
FAX: (614) 280-8881

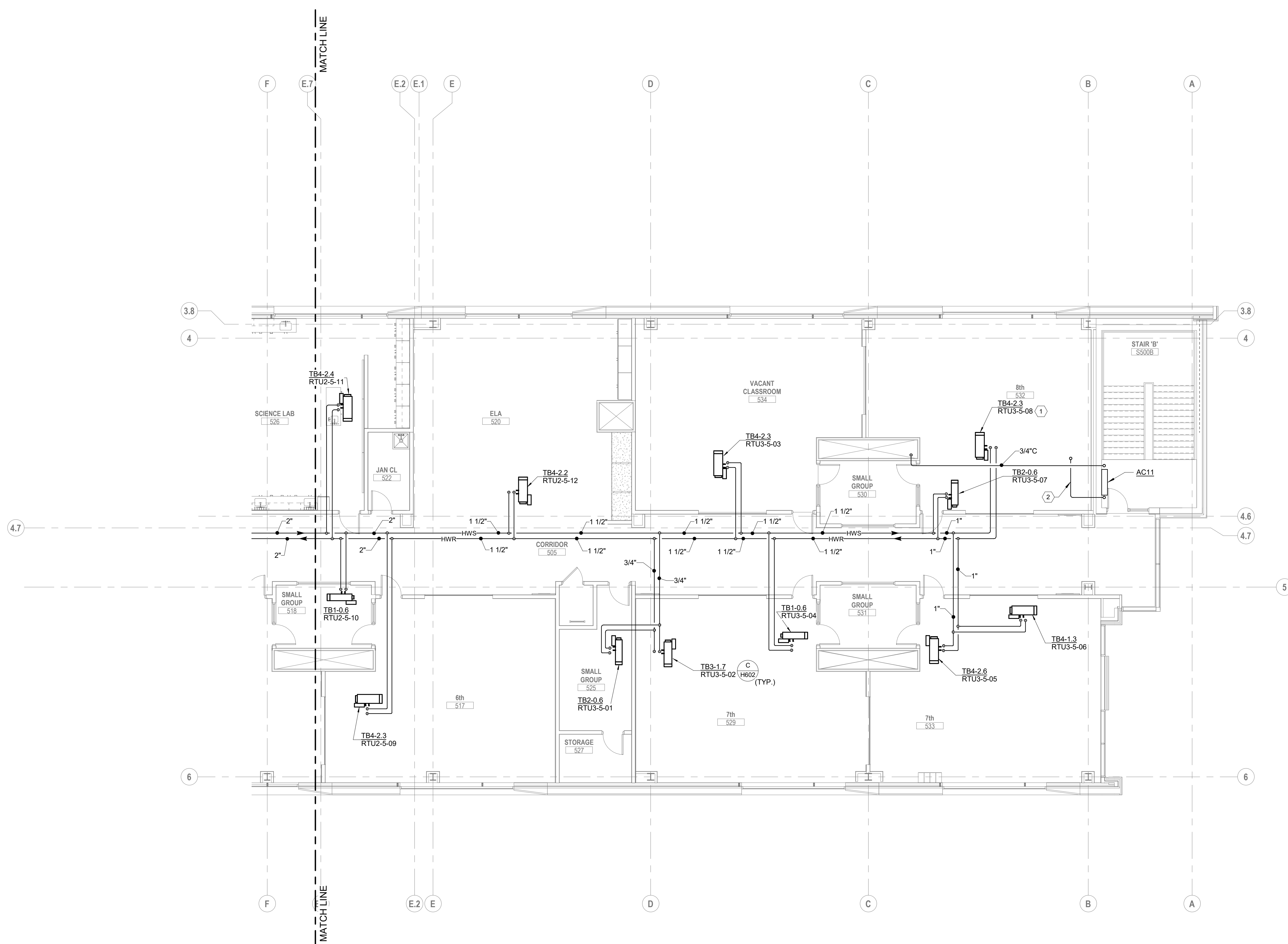
DRAWING TITLE:  
**HVAC PIPING FIFTH FLOOR  
PLAN AREA A**

**KORDA**  
KORDA, NEMETH ENGINEERING  
1650 WATERMARK DRIVE  
SUITE 200  
COLUMBUS, OHIO 43215  
DRAWN BY: Dave Blach  
DESIGNED BY: Dan Edwards/elli  
CHECKED BY: Eric Swanson  
PROJECT NUMBER: 2018-217



10/25/21  
DRAWN BY: KORDA CHECKED BY: KORDA  
Proj. # 18187  
**H305A**  
INTERIOR PACKAGE  
CONSTRUCTION DOCUMENTS

- CODED NOTES:**
1. PROVIDE 3-WAY VALVE. REFER TO DETAIL AH602.
  2. PROVIDE REFRIGERANT LIASET FROM INDOOR UNIT TO OUTDOOR CONDENSER UNIT ON ROOF. SIZE PER MANUFACTURER'S INSTRUCTIONS. SINGLE LINE REPRESENTS BOTH PIPES IN LIASET.



**A FLOOR PLAN**  
FIFTH FLOOR - AREA B

SCALE: 1/8" = 1'-0"  
0" 1" 2" 4" 8"

#	DATE	CHANGE DESCRIPTION

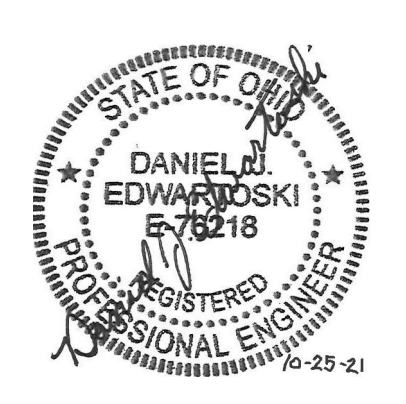
**The Greater Dayton School**  
Dwight Park Ct.  
DAYTON, OH 45404  
FOR  
**The Connor Group Kids & Community Partners**

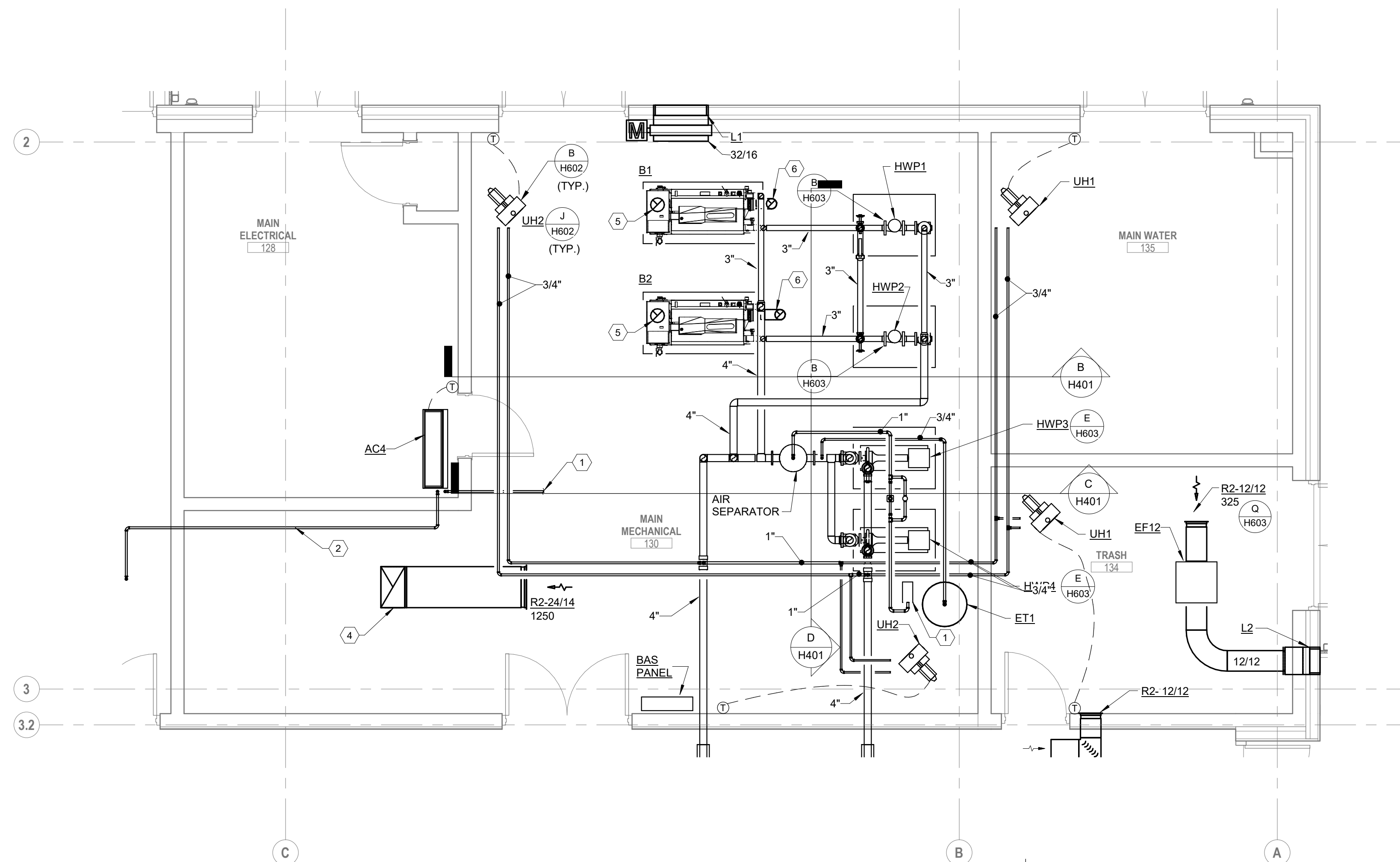
**MOODY-NOLAN**  
300 SPRUCE STREET  
SUITE 300  
COLUMBUS, OHIO 43215  
PHONE: (614) 461-4664  
FAX: (614) 280-8881

DRAWING TITLE:  
**HVAC PIPING FIFTH FLOOR  
PLAN AREA B**

10/25/21	CHECKED BY: KORDA
10/25/21	DRAWN BY: KORDA
Proj. # 18187	
<b>H305B</b>	
INTERIOR PACKAGE	
CONSTRUCTION DOCUMENTS	

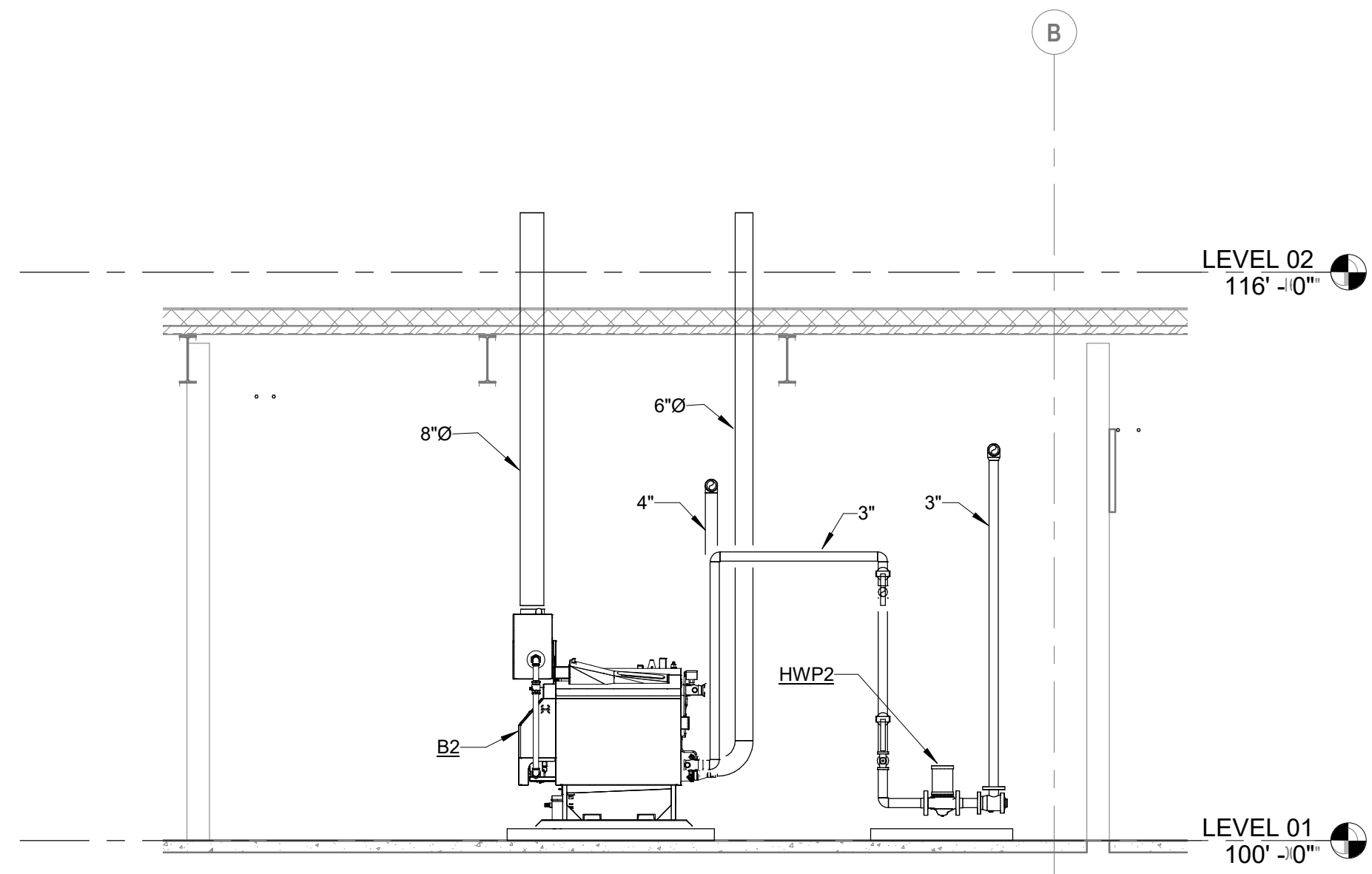
**KORDA**  
KORDA, NEMETH ENGINEERING  
1650 WATERMARK DRIVE  
SUITE 200  
COLUMBUS, OHIO 43215  
DRAWN BY: Dave Blach  
DESIGNED BY: Dan Edwards  
CHECKED BY: Eric Swanson  
PROJECT NUMBER: 2018-217



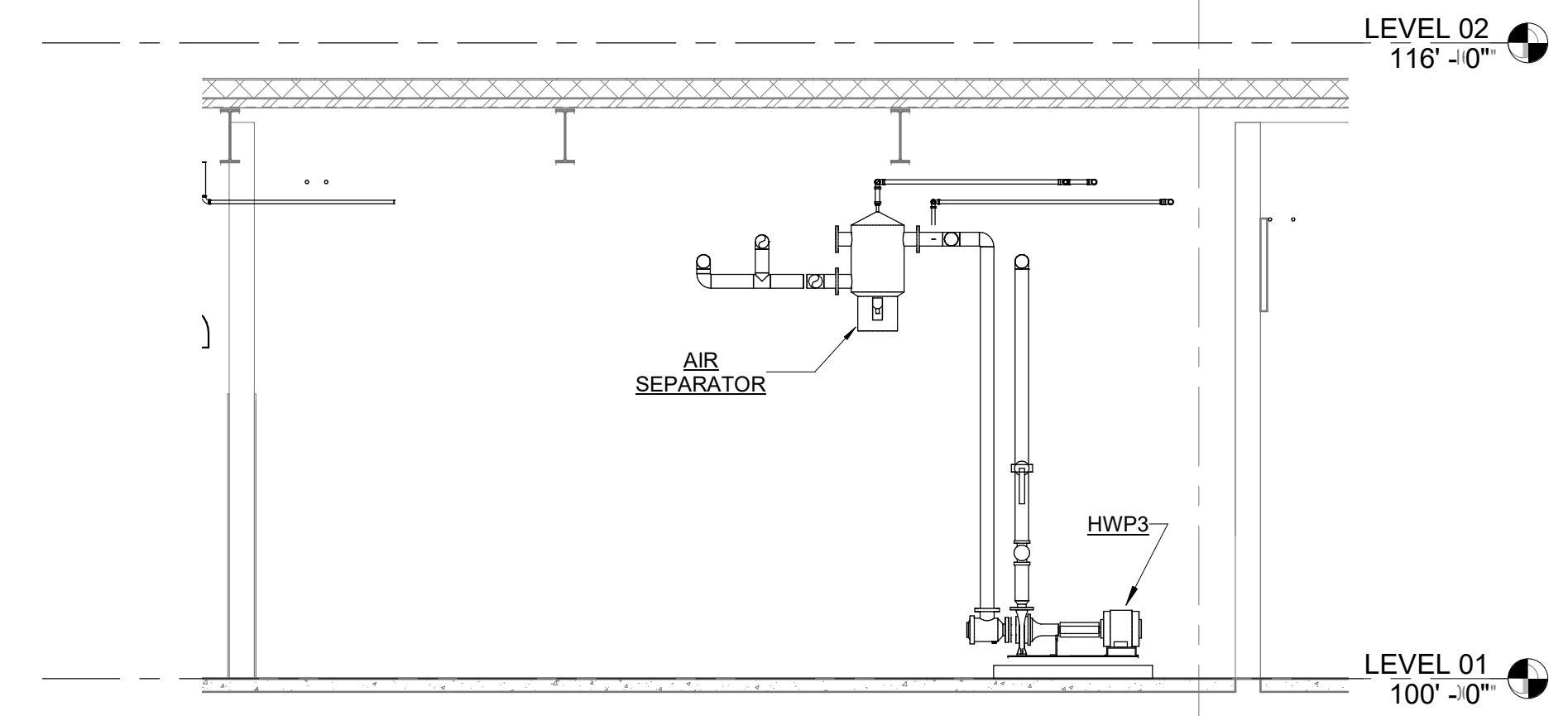


- CODED NOTES:**
1. APPROXIMATE LOCATION OF BACKFLOW PREVENTER BY PLUMBING CONTRACTOR. COORDINATE FINAL LOCATION IN FIELD. ALL PIPING DOWNSTREAM OF BACKFLOW PREVENTER SHALL BE BY THE HVAC CONTRACTOR.
  2. PROVIDE REFRIGERANT LINESET FROM INDOOR UNIT TO OUTDOOR CONDENSER UNIT ON ROOF. SIZE PER MANUFACTURER'S INSTRUCTIONS. SINGLE LINE REPRESENTS BOTH PIPES IN LINESET.
  3. ROUTE 3/4" CONDENSATE DRAIN TO NEAREST FLOOR DRAIN. TERMINATE WITH 2" AIR GAP.
  4. UP TO EF11 ON ROOF.
  5. 8 INCH COMBUSTION AIR UP THROUGH ROOF TO ITAKE GOOSENECK.
  6. 6 INCH BOILER FLUE UP THROUGH ROOF.

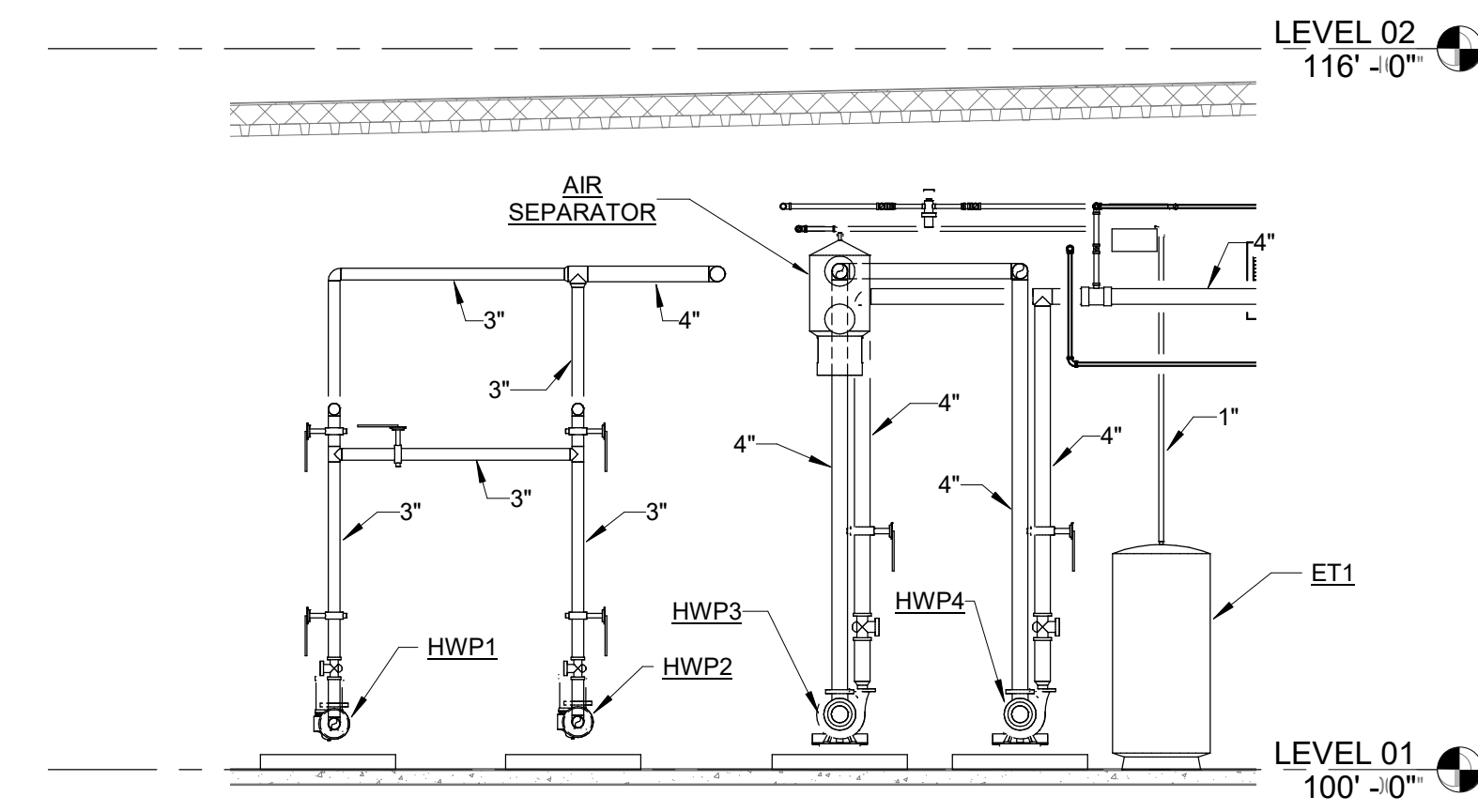
**A ENLARGED PLAN**  
FIRST FLOOR MECHANICAL ROOM  
SCALE: 1/4" = 1'-0"  
0 1' 2' 4'



**B SECTION**  
B/H401  
SCALE: 1/4" = 1'-0"  
0 1' 2' 4'



**C SECTION**  
C/H401  
SCALE: 1/4" = 1'-0"  
0 1' 2' 4'



**D D/H401**  
SCALE: 1/4" = 1'-0"  
0 1' 2' 4'

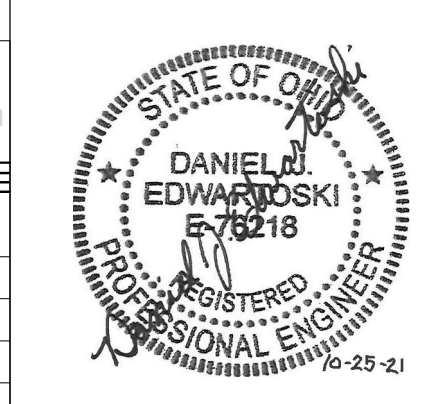
#	DATE	CHANGE DESCRIPTION

**The Greater Dayton School**  
Dwight Park Dr.  
DAYTON, OH 45404  
FOR  
**The Connor Group Kids & Community Partners**

**MOODY-NOLAN**  
300 SPRUCE STREET  
SUITE 300  
COLUMBUS, OHIO 43215  
PHONE: (614) 461-4664  
FAX: (614) 280-8881

DRAWING TITLE:  
**HVAC ENLARGED PLANS & SECTIONS**

**KORDA**  
KORDA, NEMETH ENGINEERING  
1650 WATERMARK DRIVE  
SUITE 200  
COLUMBUS, OHIO 43215  
DRAWN BY: Dave Bach  
DESIGNED BY: Dan Edmister  
CHECKED BY: Eric Swenson  
PROJECT NUMBER: 2018-217



10/25/21	CHECKED BY: KORDA
Proj. # 18187	
<b>H401</b>	
INTERIOR PACKAGE	
CONSTRUCTION DOCUMENTS	



### HOT WATER BOILER SCHEDULE

UNLESS OTHERWISE NOTED EQUIPMENT BASED ON ATH

UNIT DATA					GAS DATA				WATER DATA				BLOWER MOTOR			INDICATED COMPONENTS PROVIDED BY		REMARKS		
TAG	LOCATION	MODEL	TYPE	FUEL	DESIGN PRESSURE	GAS FLOW CFH	OPERATING PRESSURE	E.W.T. °F	L.W.T. °F	GPM	RELIEF PRESSURE	HP	VOLTS	PHASE	DIV 23	DIV 26				
B1/B2	FIRST FLOOR MECH ROOM	KN20	-	NAT. GAS	1,999	1,799	14 IN. W.G.	7 IN. W.G.	1,999	45 PSI	110	140	120	100 PSI	-	208	1	B	-	

**INDICATED ELECTRICAL COMPONENTS:**  
 A. DISCONNECT SWITCH  
 B. CONTROL PANEL WITH INTEGRAL DISCONNECT SWITCH  
 C. CONTROL PANEL  
 D. LINE VOLTAGE PANEL  
 E. REDUCED VOLTAGE STARTER  
 F. TWO SPEED STARTERS  
 G. VARIABLE FREQUENCY DRIVE  
 H. EMERGENCY POWER

### PUMP SCHEDULE

UNLESS OTHERWISE NOTED EQUIPMENT BASED ON BELL & GOSSETT  
 KEY: C.C.-CLOSE COUPLED END SUCTION, H.S.C.-FLEXIBLE COUPLED HORIZONTAL SPLIT CASE, F.C.-FLEXIBLE COUPLED END SUCTION, I.L.-IN LINE

TAG	LOCATION	MODEL	FUNCTION	TYPE	GPM	FT. HD.	EFF. %	SUCTION SIZE	DISCHARGE SIZE	IMPELLER DIAMETER	MOTOR DATA		PROVIDED BY		REMARKS		
											RPM	HP	VOLTS	PHASE			
HWP1-2	MECH RM	ø90-2AAC	PRIMARY	I.L.	120	25	70.4	2"	2"	5.5"	3450	1.5	480	3	-	A,E	
HWP3-4	MECH RM	ø1510-2BD	SECONDARY	F.C.	240	75	73.7	2.5"	2"	9.5"	1740	7.5	480	3	G	-	

**INDICATED ELECTRICAL COMPONENTS:**  
 A. DISCONNECT SWITCH  
 B. CONTROL PANEL WITH INTEGRAL DISCONNECT SWITCH  
 C. CONTROL PANEL  
 D. LINE VOLTAGE PANEL  
 E. LINE VOLTAGE STARTER  
 F. TWO SPEED STARTERS  
 G. VARIABLE FREQUENCY DRIVE  
 H. EMERGENCY POWER

### CLG ONLY TERMINAL BOX SCHEDULE

VARIABLE AND CONSTANT AIR VOLUME COOLING ONLY TERMINAL BOXES  
 UNLESS OTHERWISE NOTED EQUIPMENT BASED ON TITUS

UNIT DATA		NECK SIZE	CFM RANGE	MAX. DISCH. N.C. LEVEL @ 2" ΔP	MAX. S.P. DROP	REMARKS
TAG	MODEL					
TB11	ESV	6	80-300	26	0.1	
TB12	ESV	8	301-600	32	0.1	
TB13	ESV	10	601-900	29	0.1	
TB14	ESV	12	901-1,500	33	0.1	
TB15	ESV	14	1,501-1,800	29	0.1	
TB16	ESV	16	1,801-3,200	30	0.1	

### HOT WATER REHEAT TERMINAL BOX SCHEDULE

VARIABLE AND CONSTANT AIR VOLUME TERMINAL BOXES WITH HOT WATER HEATING COILS  
 UNLESS OTHERWISE NOTED EQUIPMENT BASED ON TITUS

UNIT DATA		NECK SIZE	CFM RANGE	MAX. DISCH. N.C. LEVEL @ 2" ΔP	MAX. S.P. DROP	UNIT DATA							REMARKS
TAG	MODEL					MBH	GPM	WATER ΔT	E.A.T. °F	L.A.T. °F	MAX COIL PD (FTHD)	MIN. # OF ROWS	
TB1	ESV	6	80-300	26	0.3	7.3	0.5	30	55	100	3	2	GENERAL COIL CAP. BASED ON 50% AIRFLOW. SEE PLANS FOR SPECIFIC CAPACITIES.
TB2	ESV	8	301-600	32	0.3	14.6	1.0	30	55	100	3	2	GENERAL COIL CAP. BASED ON 50% AIRFLOW. SEE PLANS FOR SPECIFIC CAPACITIES.
TB3	ESV	10	601-900	29	0.5	24.3	1.6	30	55	100	3	2	GENERAL COIL CAP. BASED ON 50% AIRFLOW. SEE PLANS FOR SPECIFIC CAPACITIES.
TB4	ESV	12	901-1,500	33	0.5	36.5	2.4	30	55	100	5	2	GENERAL COIL CAP. BASED ON 50% AIRFLOW. SEE PLANS FOR SPECIFIC CAPACITIES.
TB5	ESV	14	1,501-1,800	29	0.5	54.7	3.6	30	55	100	5	2	GENERAL COIL CAP. BASED ON 50% AIRFLOW. SEE PLANS FOR SPECIFIC CAPACITIES.
TB6	ESV	16	1,801-3,200	30	0.7	79.0	5.3	30	55	100	5	2	GENERAL COIL CAP. BASED ON 50% AIRFLOW. SEE PLANS FOR SPECIFIC CAPACITIES.

### ELECTRIC CABINET UNIT HEATER SCHEDULE

UNLESS OTHERWISE NOTED EQUIPMENT BASED ON INDEECO

UNIT DATA				AIR DATA			HEATING ELEMENTS			INDICATED COMPONENTS PROVIDED BY		REMARKS		
TAG	LOCATION	MODEL	TYPE	KW	CFM	E.A.T. °F	L.A.T. °F	NO.	TOTAL KW	VOLTS	PHASE		DIV 23	DIV 26
ECU1	STAIR	CU1 922U05	WALL RECESSED	5	250	65	128	1	5	-	-	A,K	-	UNIT MOUNTED THERMOSTAT
ECU2	SEE PLANS	CU1 922U05	CEILING RECESSED	5	250	65	128	1	5	-	-	A,K	-	REMOTE MOUNTED THERMOSTAT TRIM FOR CEILING RECESSED MOUNT

**CODED NOTES:**  
 A. DISCONNECT SWITCH  
 B. CONTROL PANEL WITH INTEGRAL DISCONNECT SWITCH  
 C. CONTROL PANEL  
 D. LINE VOLTAGE PANEL  
 E. REDUCED VOLTAGE STARTER  
 F. TWO SPEED STARTERS  
 G. VARIABLE FREQUENCY DRIVE  
 H. EMERGENCY POWER  
 I. PLUG-IN UNIT  
 J. THERMOSTAT  
 K. THERMOSTAT  
 L. WALL SWITCH

### HOT WATER UNIT HEATER SCHEDULE

UNLESS OTHERWISE NOTED EQUIPMENT BASED ON TRANE

UNIT DATA				AIR DATA			WATER DATA				MOTOR DATA		INDICATED COMPONENTS PROVIDED BY		REMARKS			
TAG	LOCATION	MODEL	TYPE	MBH	CFM	E.A.T. °F	L.A.T. °F	A.P.D. IN. W.G.	E.W.T. °F	L.W.T. °F	GPM	W.P.D. FT. HD.	HP	RPM		VOLTS	PHASE	
UH1	SEE PLANS	S-A18	HUNG	10	500	60	79	-	140	110	1.9	2.2	0.02	1,550	120	1	A,K	
UH2	SEE PLANS	S-A36	HUNG	20	850	60	83	-	140	110	3.6	2.2	1/20	1,000	120	1	A,K	

**CODED NOTES:**  
 A. DISCONNECT SWITCH  
 B. CONTROL PANEL WITH INTEGRAL DISCONNECT SWITCH  
 C. CONTROL PANEL  
 D. LINE VOLTAGE PANEL  
 E. REDUCED VOLTAGE STARTER  
 F. TWO SPEED STARTERS  
 G. VARIABLE FREQUENCY DRIVE  
 H. EMERGENCY POWER  
 I. PLUG-IN UNIT  
 J. THERMOSTAT  
 K. THERMOSTAT  
 L. WALL SWITCH

### EXPANSION TANK SCHEDULE

UNLESS OTHERWISE NOTED EQUIPMENT BASED ON BELL & GOSSETT

TAG	LOCATION	MODEL	FUNCTION	TANK VOLUME (GALLONS)	ACCEPTANCE VOLUME (GALLONS)	MINIMUM PRESSURE (PSIG)	MAXIMUM PRESSURE (PSIG)	AIR PRECHARGE (PSIG)	REMARKS
ET1	MECH ROOM	B-600	HOT WATER	158	158	40	100	40	

### HOT WATER CABINET UNIT HEATER SCHEDULE

UNLESS OTHERWISE NOTED EQUIPMENT BASED ON TRANE

UNIT DATA				AIR DATA				WATER DATA				MOTOR DATA			INDICATED COMPONENTS PROVIDED BY		REMARKS		
TAG	LOCATION	MODEL	TYPE	MBH	CFM	E.A.T. °F	L.A.T. °F	A.P.D. IN. W.G.	E.W.T. °F	L.W.T. °F	GPM	W.P.D. FT. HD.	HP	RPM	VOLTS	PHASE		DIV 23	DIV 26
CUH1	SEE PLANS	FFHB040	WALL RECESSED	28	340	65	141	-	140	110	1.9	8.0	-	-	120	1	A,F	-	PROVIDE UNIT MOUNTED THERMOSTAT
CUH2	SEE PLANS	FFHB040	WALL MOUNTED	28	340	65	141	-	140	110	1.9	8.0	-	-	120	1	A,F	-	PROVIDE REMOTE MOUNTED THERMOSTAT
CUH3	SEE PLANS	FFHB040	CEILING RECESSED	28	340	65	141	-	140	110	1.9	8.0	-	-	120	1	A,F	-	PROVIDE REMOTE MOUNTED THERMOSTAT PROVIDE TRIM FOR CEILING RECESSED MOUNT
CUH4	SEE PLANS	FFFB100	CEILING RECESSED	36	1000	65	95	-	140	110	2.3	10.0	-	-	120	1	A,F	-	PROVIDE REMOTE MOUNTED THERMOSTAT PROVIDE TRIM FOR CEILING RECESSED MOUNT

**CODED NOTES:**  
 A. DISCONNECT SWITCH  
 B. CONTROL PANEL WITH INTEGRAL DISCONNECT SWITCH  
 C. CONTROL PANEL  
 D. LINE VOLTAGE PANEL  
 E. REDUCED VOLTAGE STARTER  
 F. TWO SPEED STARTERS  
 G. VARIABLE FREQUENCY DRIVE  
 H. EMERGENCY POWER  
 I. PLUG-IN UNIT  
 J. THERMOSTAT  
 K. WALL SWITCH

### REGISTER & DIFFUSER SCHEDULE

UNLESS OTHERWISE NOTED EQUIPMENT BASED ON TITUS  
 NECK SIZES ARE GIVEN ON DRAWINGS.

TAG	LOCATION	MODEL	FUNCTION	FACE TYPE	FRAME TYPE	LOUVER TYPE	MATERIAL	FINISH	DAMPER	N.C. MAX.	REMARKS
D1	SEE PLANS	OMNI	SA	LOUVERED	LAY-IN	N/A	ALUMINIUM	WHITE	IN DUCT	25	PROVIDE EQUALIZING GRID
D2	SEE PLANS	OMNI	SA	LOUVERED	SURFACE	N/A	ALUMINIUM	WHITE	IN DUCT	25	PROVIDE EQUALIZING GRID
D3	SEE PLANS	TMR	SA	LOUVERED	DUCT MOUNTED	N/A	STEEL	WHITE	IN DUCT	25	
LD1	SEE PLANS	ML39	SA	(2) 1" SLOTS	LAY-IN	N/A	ALUMINIUM	WHITE	IN DUCT	25	PROVIDE HP-TYPE PLENUM BOX FACTORY TRIM TO LENGTH INDICATED ON DRAWINGS
LD2	SEE PLANS	ML39	SA	(2) 1" SLOTS	SURFACE	N/A	ALUMINIUM	WHITE	IN DUCT	25	PROVIDE HP-TYPE PLENUM BOX FACTORY TRIM TO LENGTH INDICATED ON DRAWINGS
LD3	SEE PLANS	ML39	SA	(3) 1" SLOTS	LAY-IN	N/A	ALUMINIUM	WHITE	IN DUCT	25	PROVIDE HP-TYPE PLENUM BOX FACTORY TRIM TO LENGTH INDICATED ON DRAWINGS
LD4	SEE PLANS	ML39	SA	(3) 1" SLOTS	SURFACE	N/A	ALUMINIUM	WHITE	IN DUCT	25	PROVIDE HP-TYPE PLENUM BOX FACTORY TRIM TO LENGTH INDICATED ON DRAWINGS
LD5	SEE PLANS	ML39	SA	(4) 1" SLOTS	LAY-IN	N/A	ALUMINIUM	WHITE	IN DUCT	25	PROVIDE HP-TYPE PLENUM BOX FACTORY TRIM TO LENGTH INDICATED ON DRAWINGS
LD6	SEE PLANS	ML39	SA	(4) 1" SLOTS	SURFACE	N/A	ALUMINIUM	WHITE	IN DUCT	25	PROVIDE HP-TYPE PLENUM BOX FACTORY TRIM TO LENGTH INDICATED ON DRAWINGS
LR1	SEE PLANS	CT-580	RA	-	LAY-IN	N/A	ALUMINIUM	WHITE	IN DUCT	25	6" NOMINAL DUCT WIDTH 0° DEFLECTION
LR2	SEE PLANS	CT-580	RA	-	SURFACE	N/A	ALUMINIUM	WHITE	IN DUCT	25	6" NOMINAL DUCT WIDTH 0° DEFLECTION
R1	SEE PLANS	50F	RA/EA	1/2"x1/2"x1/2"	LAY-IN	N/A	ALUMINIUM	WHITE	IN DUCT	25	
R2	SEE PLANS	50F	RA/EA	1/2"x1/2"x1/2"	SURFACE	N/A	ALUMINIUM	WHITE	IN DUCT	25	
R3	SEE PLANS	63FL	HEAVY DUTY RA	-	SURFACE	FIXED	ZERO DEGREE STEEL	WHITE	IN DUCT	25	GYMNASIUM
R4	SEE PLANS	350RL	RA	-	SURFACE	N/A	ALUMINIUM	WHITE	IN DUCT	25	SIDE WALL
R5	SEE PLANS	300RL	SA	-	SURFACE	N/A	ALUMINIUM	WHITE	IN DUCT	25	SIDE WALL
R6	SEE PLANS	R301F	SA/RA	-	SURFACE	N/A	ALUMINIUM	WHITE	IN DUCT	25	SIDE WALL
R7	SEE PLANS	S-DL	SA	LOUVERED	DUCT MOUNTED	ROTATING DRUM	ALUMINIUM	WHITE	AIR SCOOP	25	GYMNASIUM
R8	SEE PLANS	350RL	RA	-	LAY-IN	N/A	ALUMINIUM	WHITE	IN DUCT	25	

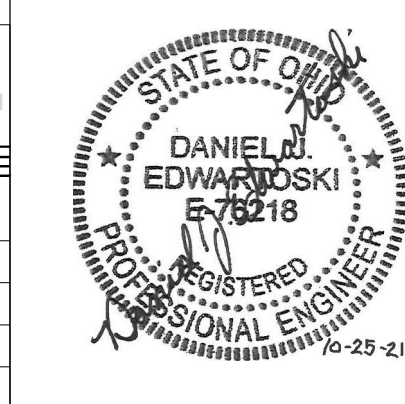
#	DATE	CHANGE DESCRIPTION

**The Greater Dayton School**  
 Dwyer Park Dr.  
 DAYTON, OH 45404  
 FOR  
**The Connor Group Kids & Community Partners**

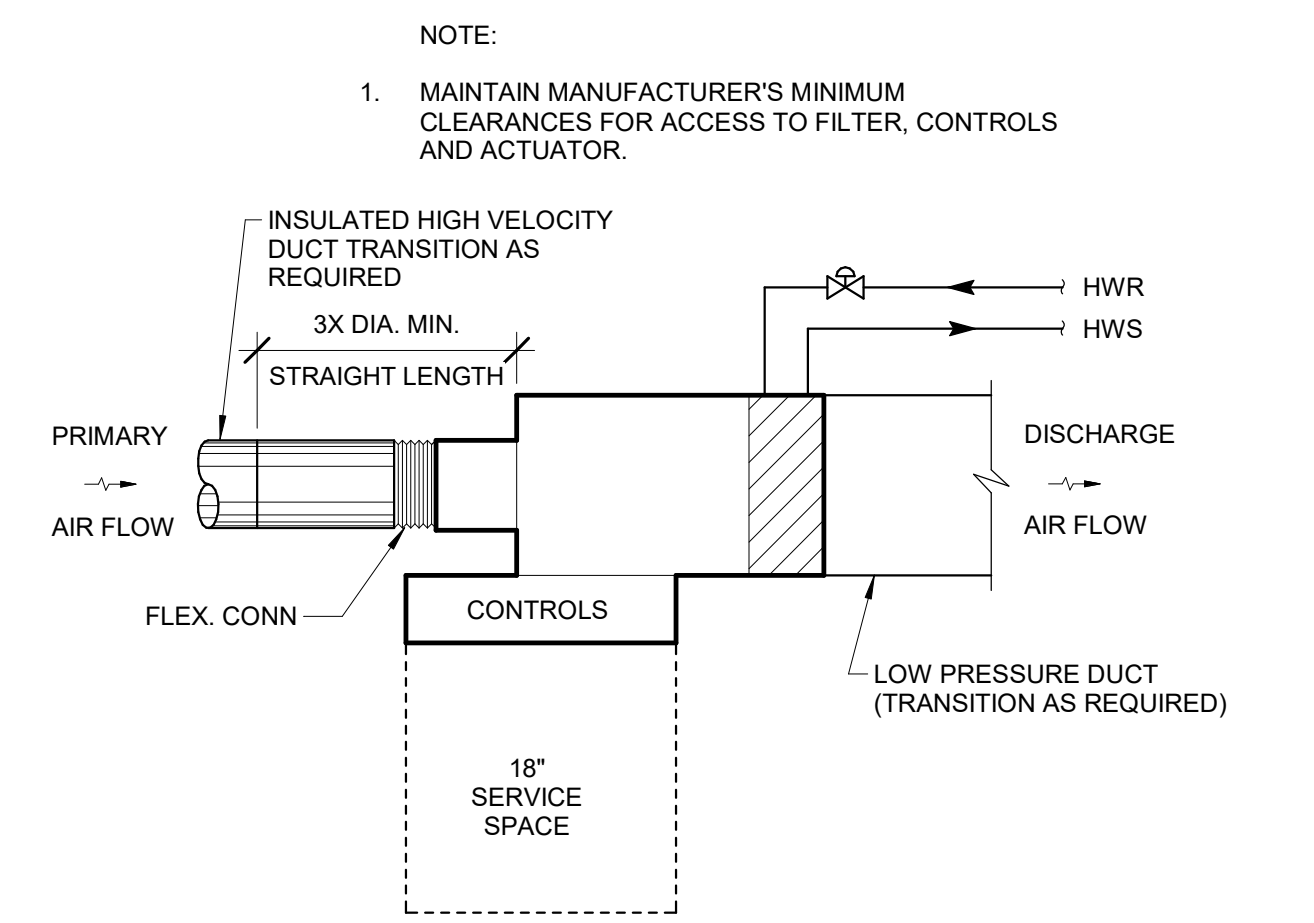
300 SPRUCE STREET  
 SUITE 300  
 COLUMBUS, OHIO 43215  
 PHONE: (614) 461-4664  
 FAX: (614) 280-8881

DRAWING TITLE: **HVAC SCHEDULES**

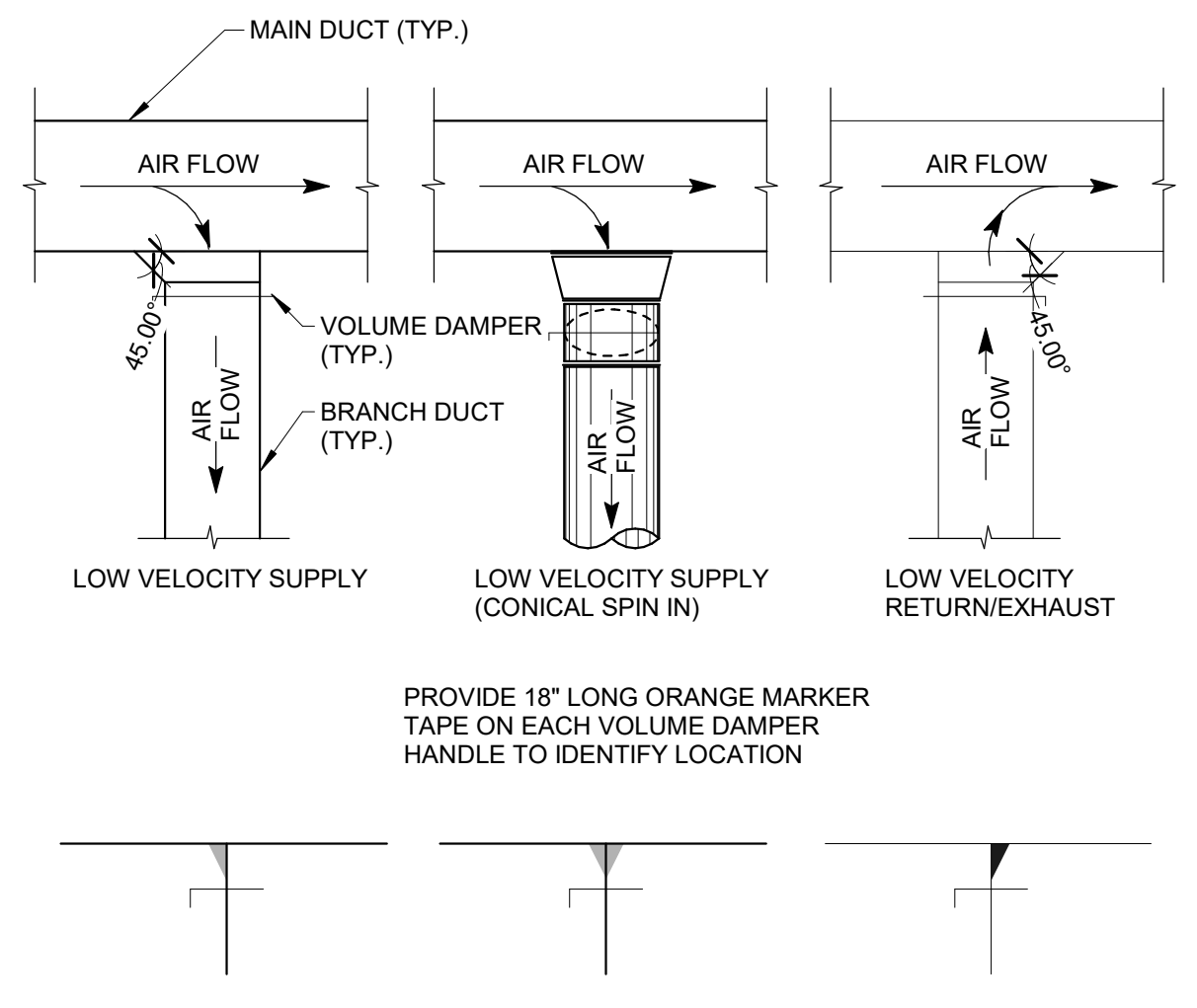
**KORDA**  
 KORDA NEMETH ENGINEERING  
 1650 WATERMARK DRIVE  
 SUITE 200  
 COLUMBUS, OHIO 43215  
 DRAWN BY: Dave Blach  
 DESIGNED BY: Dave Blach  
 CHECKED BY: Eric Stuever  
 PROJECT NUMBER: 2018-217



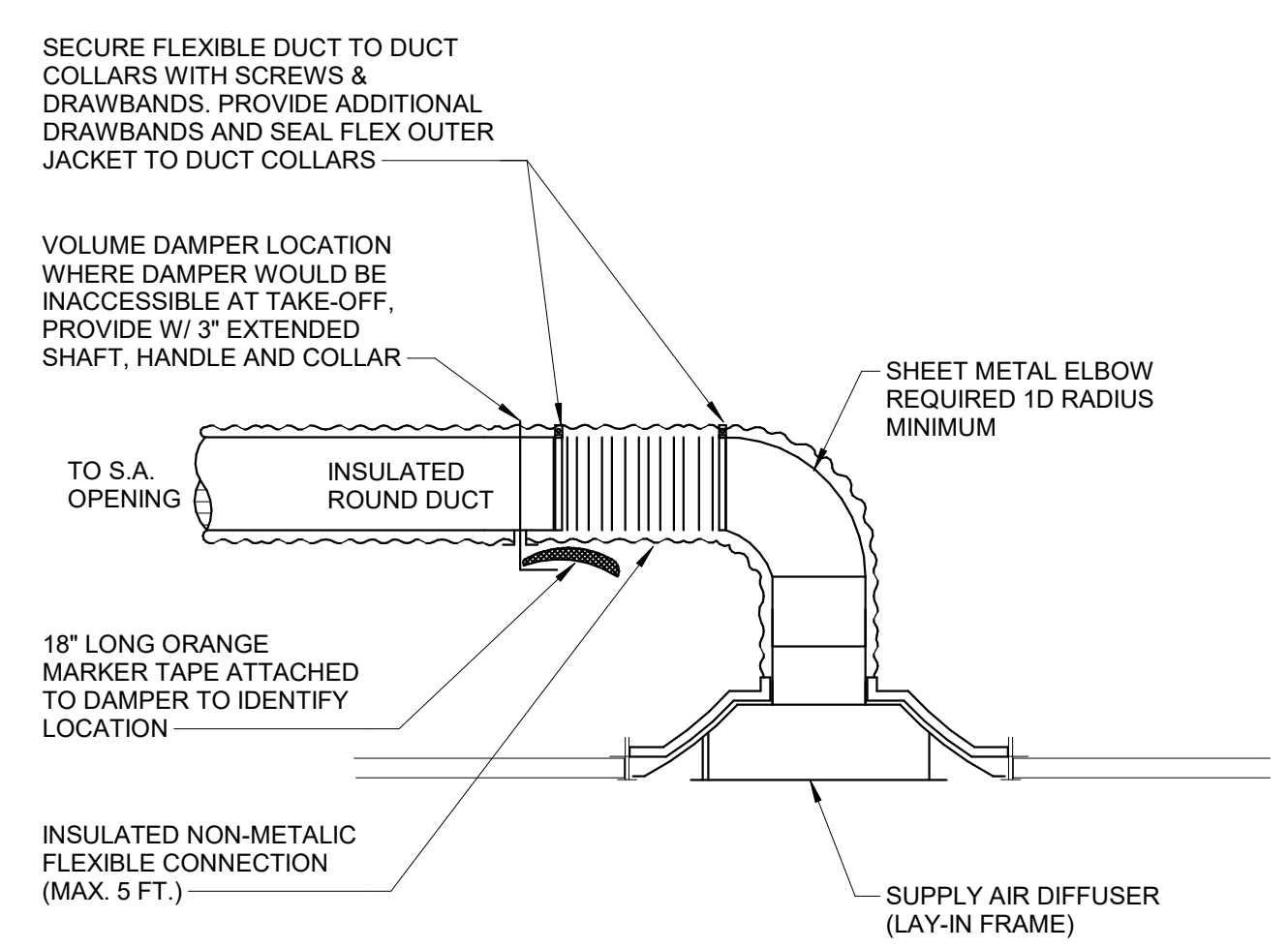
10/25/21	CHECKED BY: KORDA
Proj. # 18187	
H502	
INTERIOR PACKAGE CONSTRUCTION DOCUMENTS	



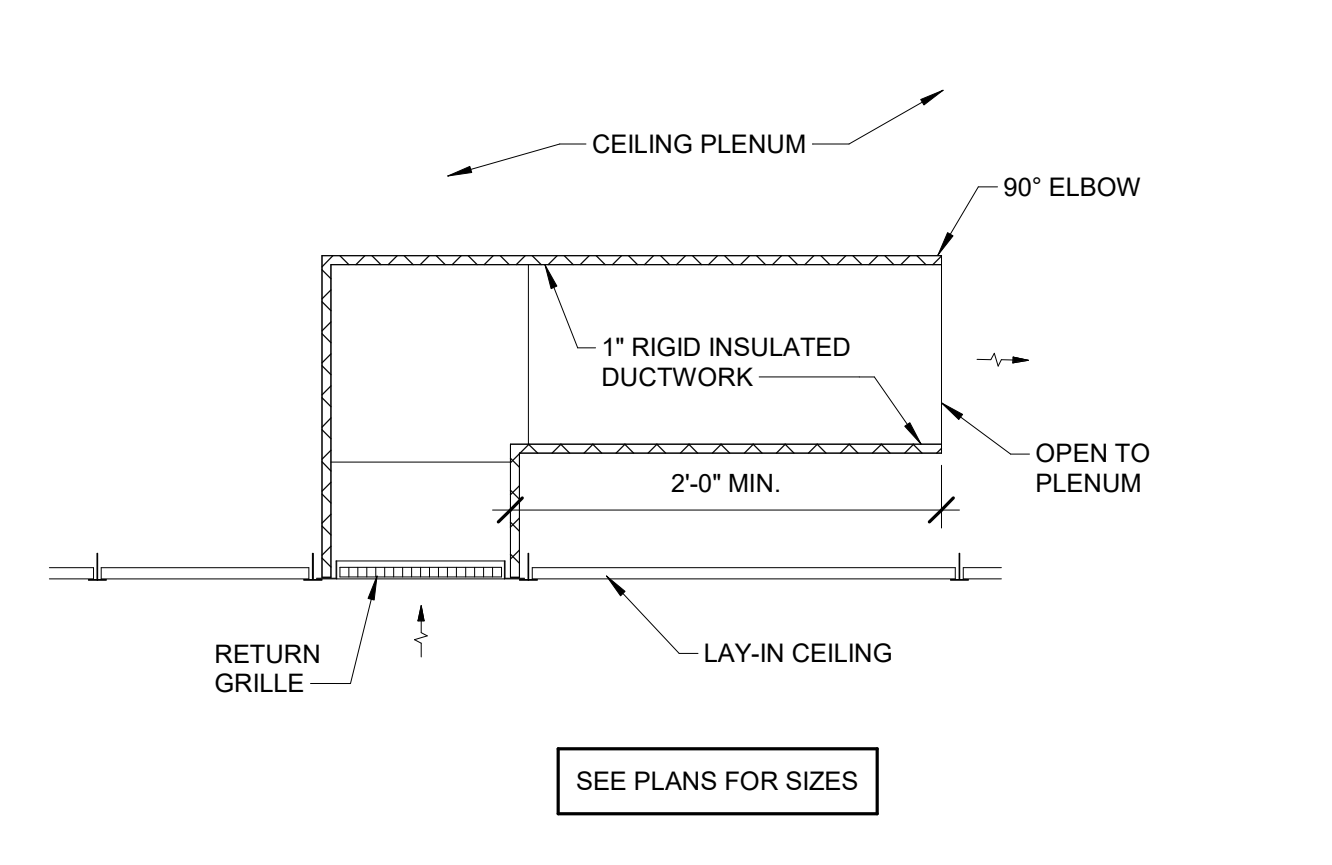
**A** DETAIL PLAN VIEW  
V.A.V. TERMINAL BOX N.T.S.



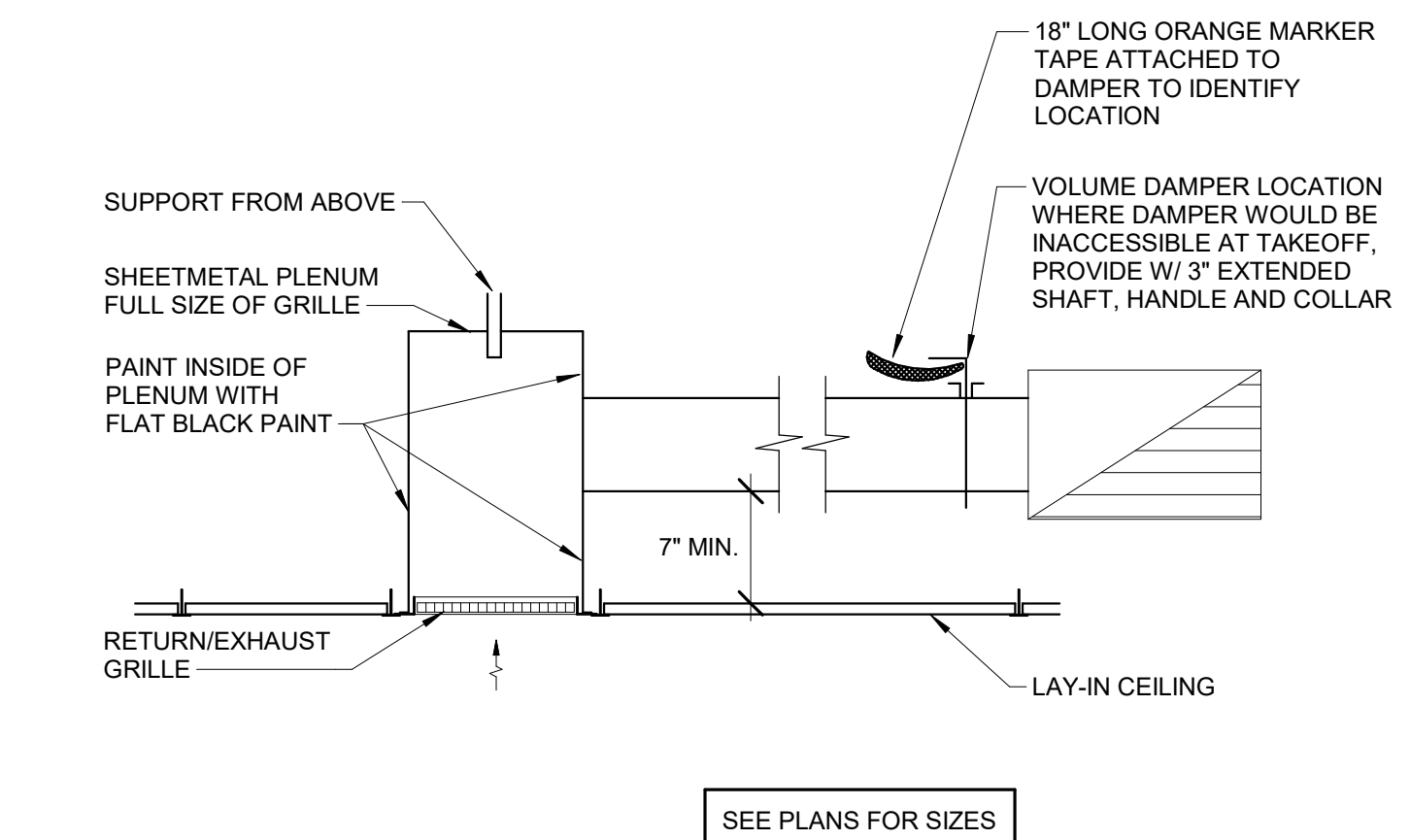
**B** DETAIL SINGLE LINE  
TYPICAL DUCT CONNECTIONS N.T.S.



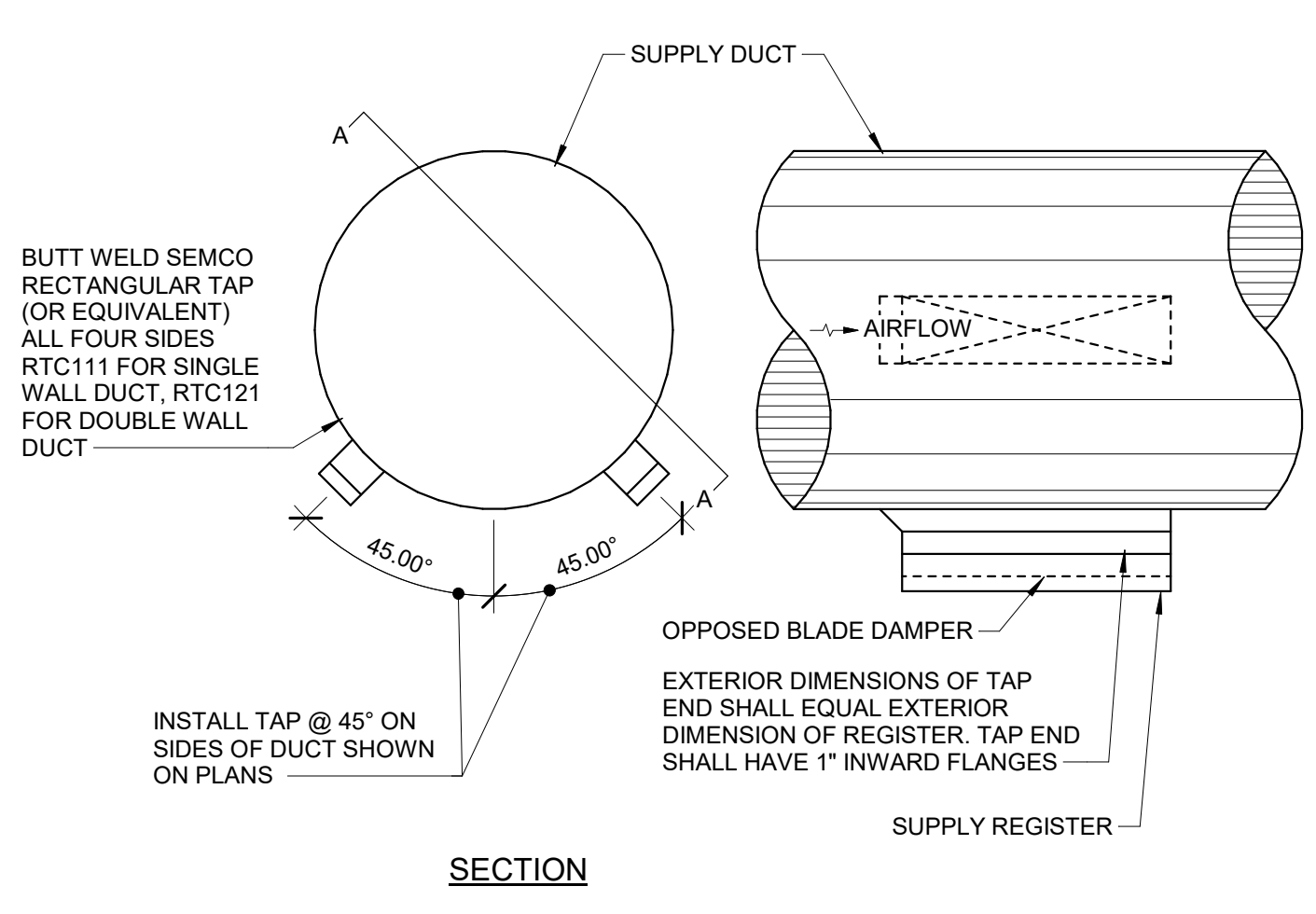
**C** DETAIL  
DIFFUSER MOUNTING (SUPPLY DUCT CLOSE TO CEILING) N.T.S.



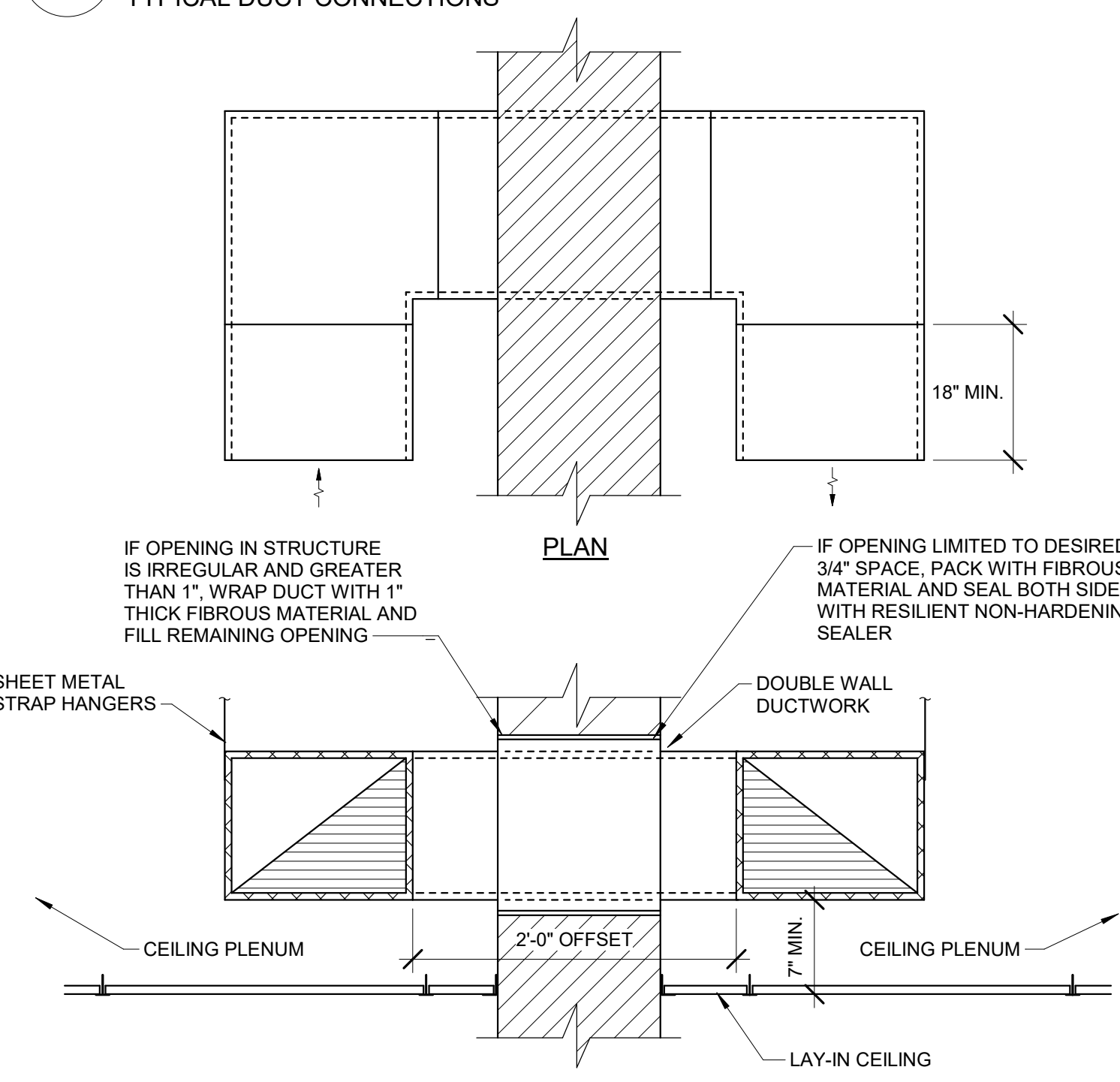
**D** DETAIL  
PLENUM RETURN GRILLE CONNECTION, TYPICAL N.T.S.



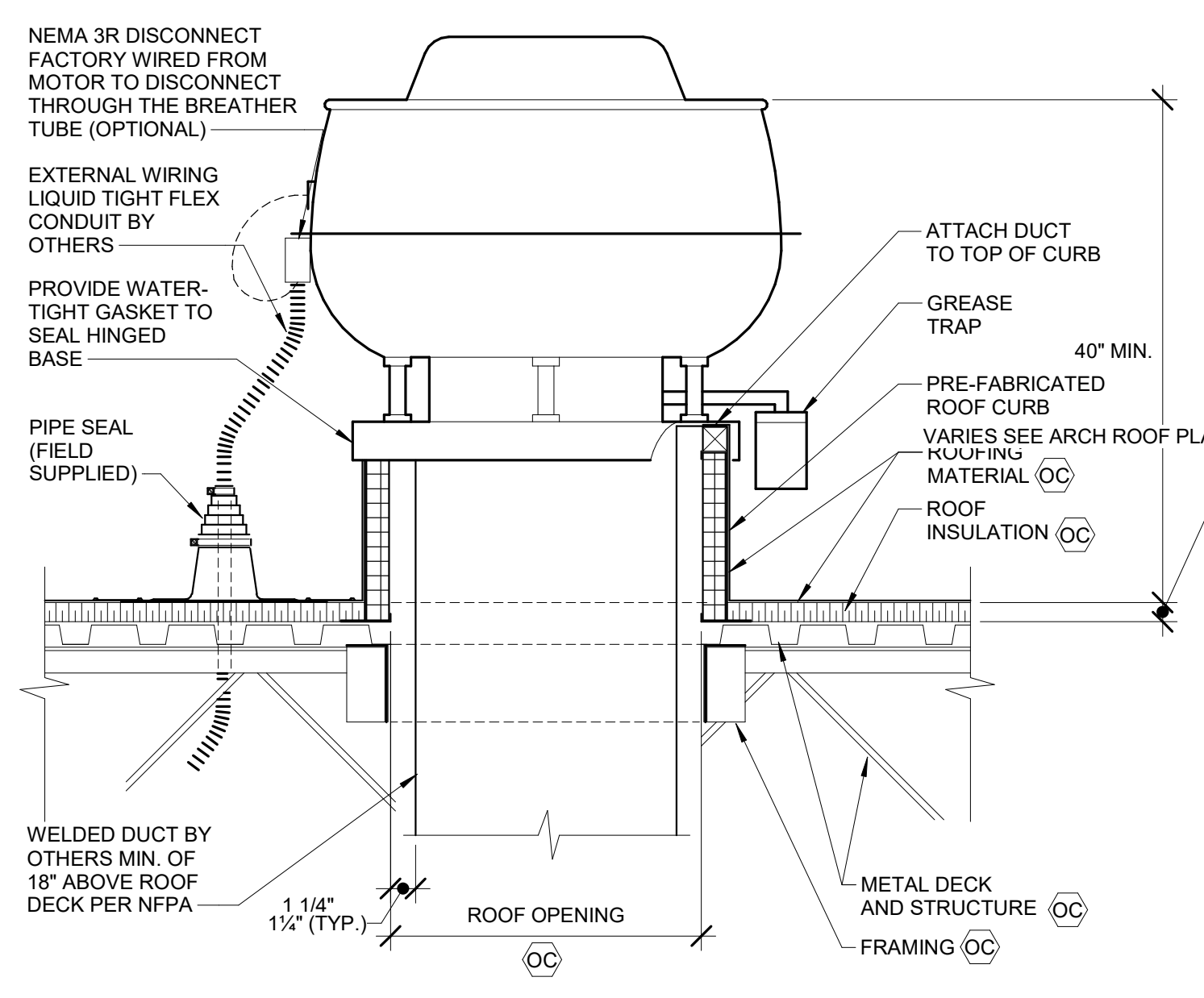
**E** DETAIL  
TYP. FOR ALL RETURN AND EXHAUST CONNECTIONS N.T.S.



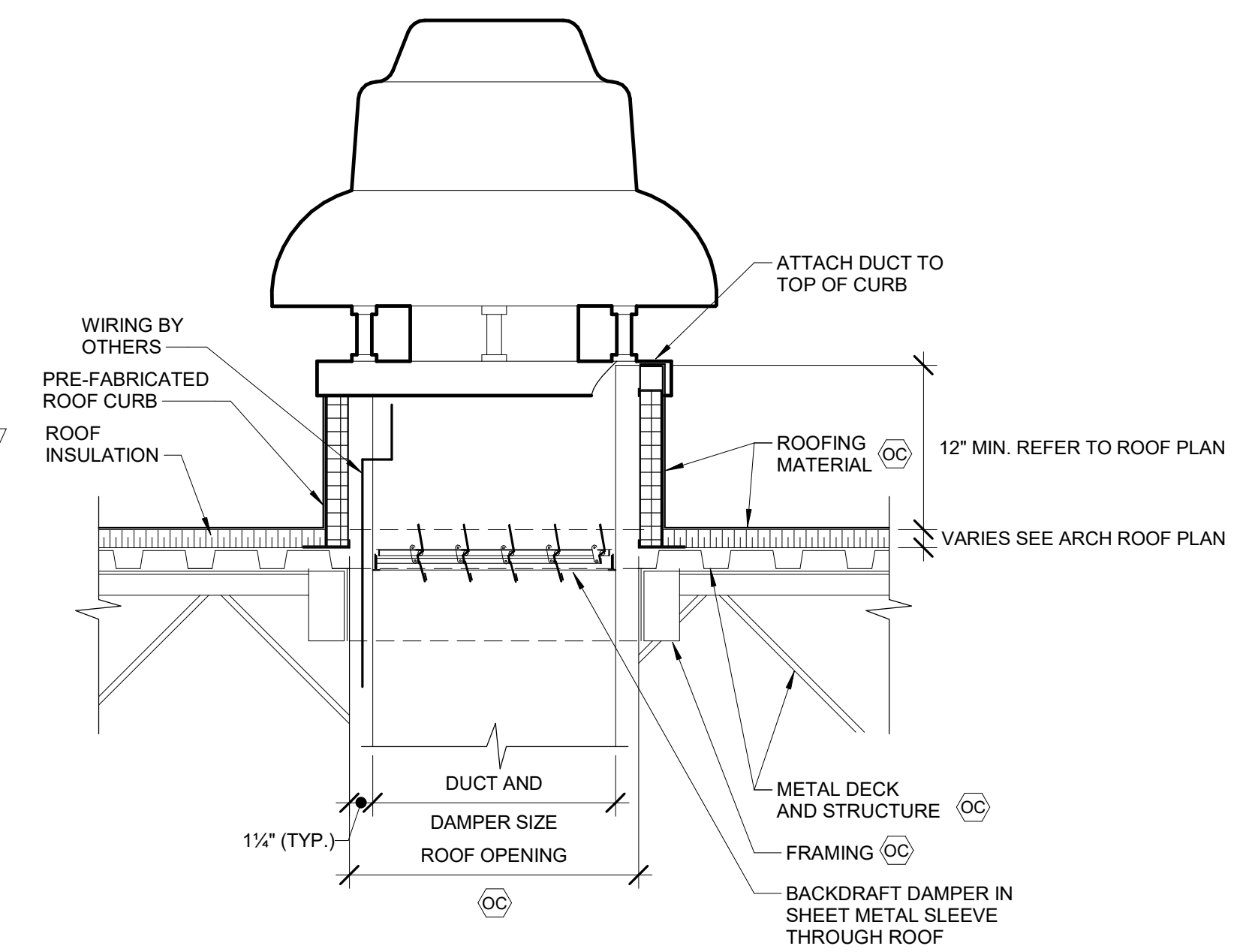
**F** DETAIL  
DUCT MOUNTED DIFFUSER N.T.S.



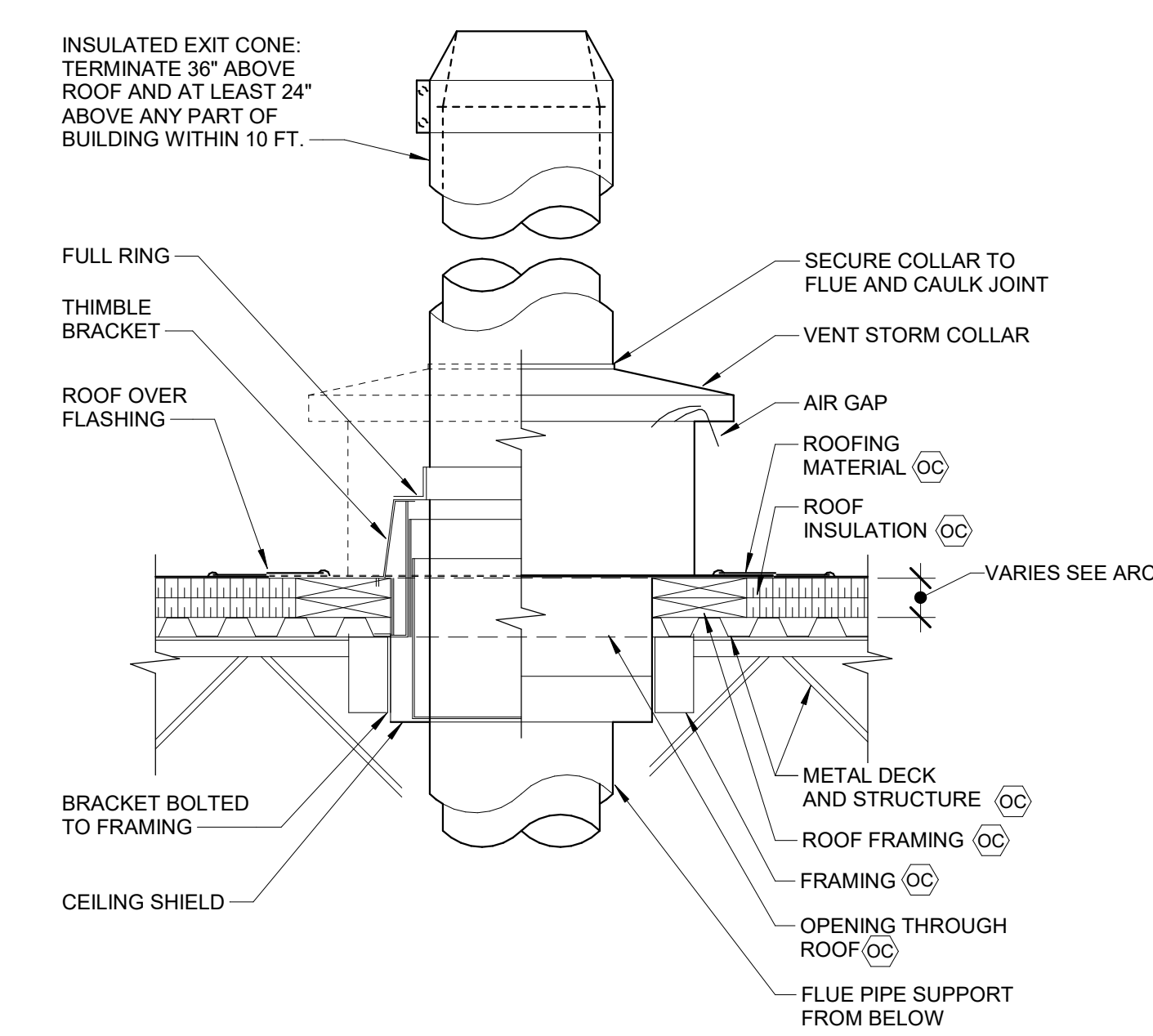
**G** DETAIL  
ACOUSTICAL TRANSFER DUCT THROUGH WALL N.T.S.



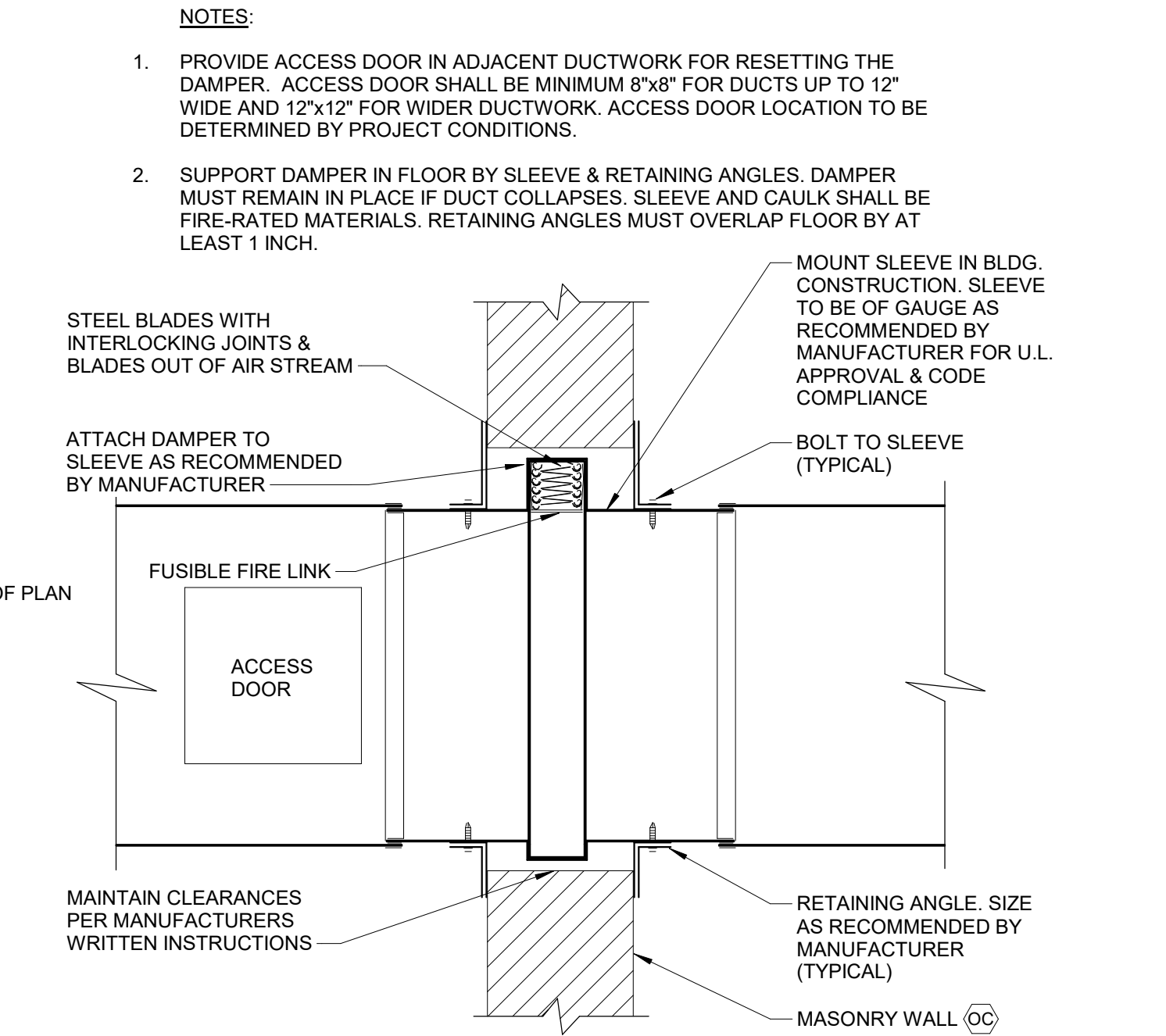
**H** DETAIL  
ROOF MOUNTED EXHAUST FAN (GREASE) (KITCHEN HOOD EXHAUST) N.T.S.



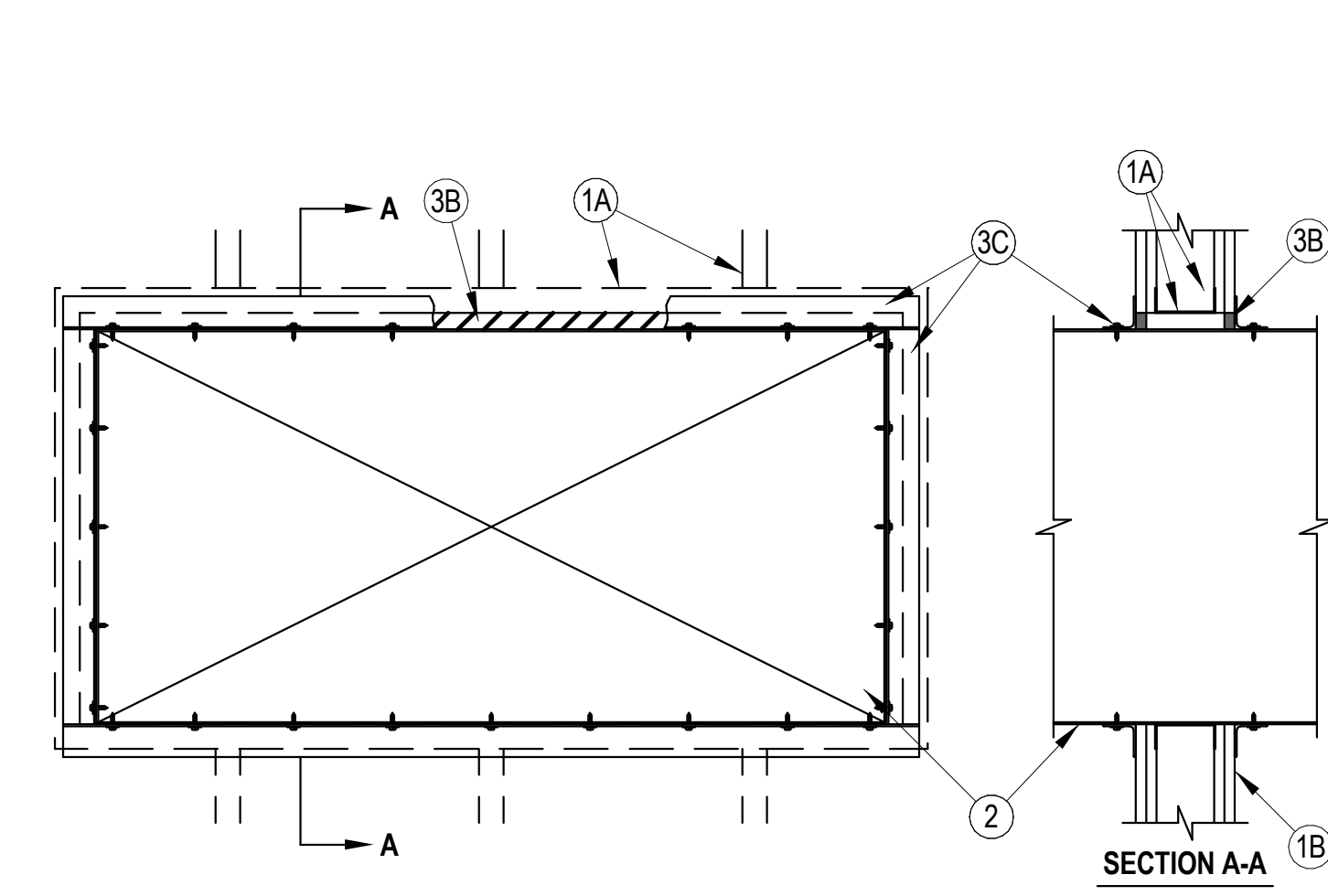
**J** DETAIL  
ROOF MOUNTED EXHAUST FAN N.T.S.



**K** DETAIL  
BOILER FLUE ROOF PENETRATION N.T.S.



**L** DETAIL  
FIRE DAMPER INSTALLATION (STYLE C) N.T.S.

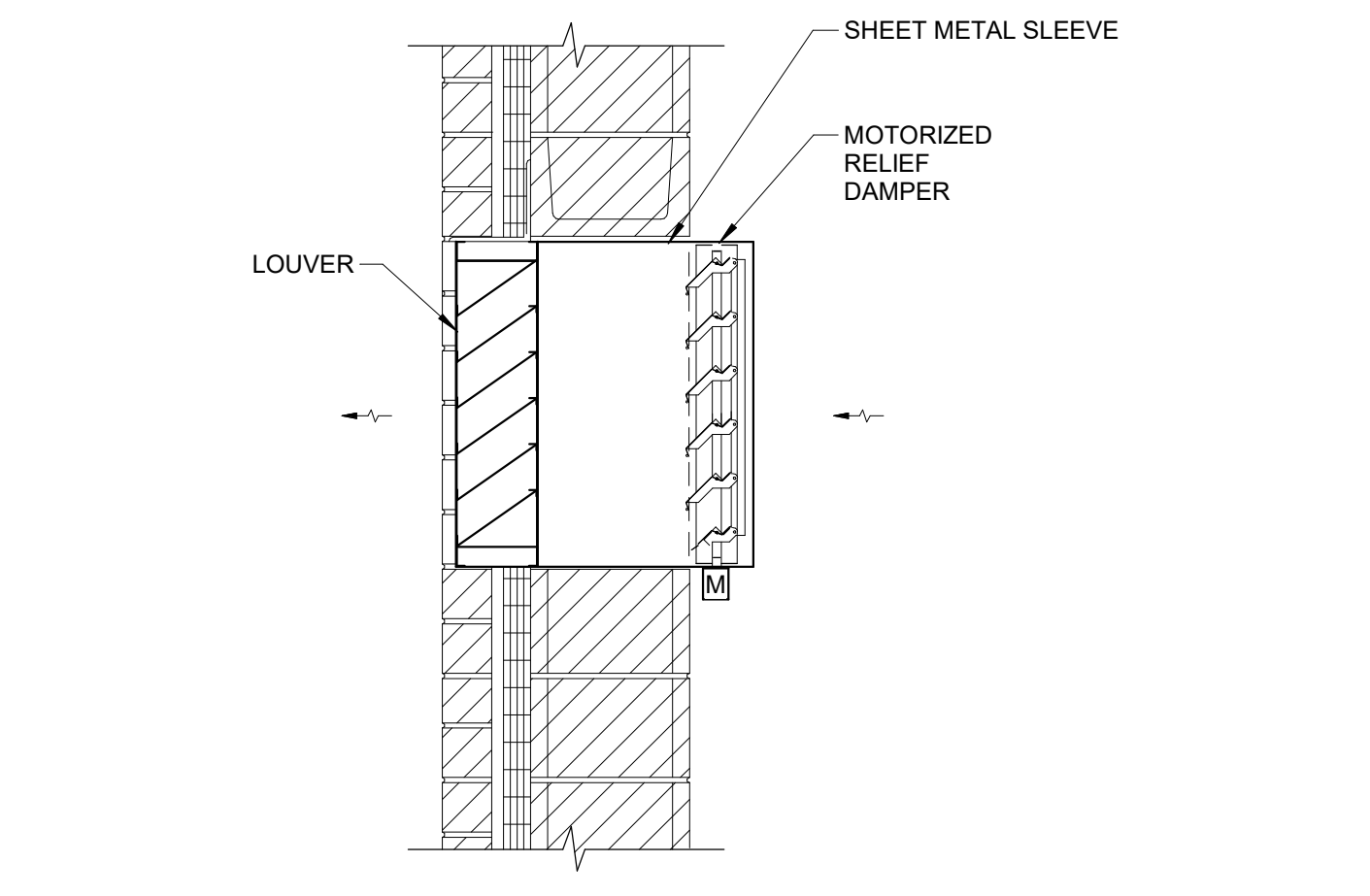


Max Duct Dimension	Duct Thickness	Annular Space	Packing Material	Angle (Item 3C) Required
24 in. (610 mm)	24 ga or heavier	1/2 in. min to 1 in. max (13 to 25 mm)	Item 3A1	No

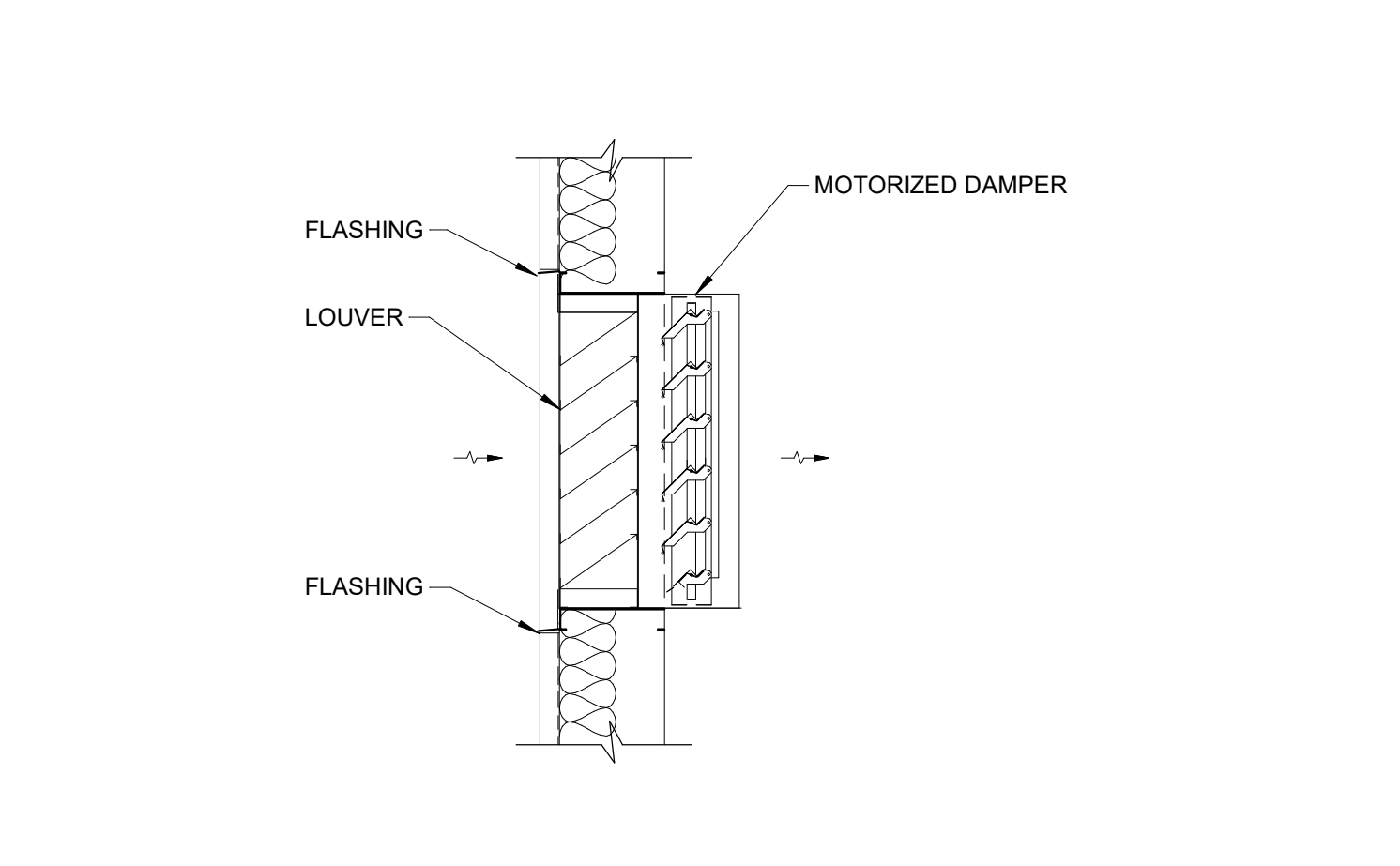
\*Bearing the UL Classification Mark  
 HILTI  
 Reproduced by HILTI, Inc. Courtesy of Underwriters Laboratories, Inc. August 27, 2010  
 Classified by Underwriters Laboratories, Inc. to UL 147B and CANULC-0115

**F Ratings — 1 and 2 Hr (See Item 1)**  
**T Rating — 0 Hr**  
**L Rating at Ambient — Less Than 1 CFM/sq ft**  
**L Rating at 400 F — Less Than 1 CFM/sq ft**

- Wall Assembly — The 1 or 2 hr fire-rated gypsum wallboard/steel wall assembly shall be constructed of the materials and in the manner described in the individual U400 or V400 Series Wall or Partition Design in the UL Fire Resistance Directory and shall include the following construction features:  
 A. Studs — Wall framing shall consist of min 3-1/2 in. (89 mm) wide steel channel studs spaced max 24 in. (610 mm) O.C. Additional steel studs shall be used to completely frame the opening.  
 B. Gypsum Board — 5/8 in. (16 mm) thick, 4 ft (1.22 m) wide with square or tapered edges. The gypsum board type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual U400 or V400 Series Design in the UL Fire Resistance Directory. Max area of opening is 73.7 sq ft (6.85 m<sup>2</sup>) with a max dimension of 104 in. (2.64 m). The hourly F Rating of the firestop system is equal to the hourly fire rating of the wall assembly in which it is installed.  
 C. Steel Duct — Max 100 in. by 100 in. (2.5 by 2.5 m) galv steel duct to be installed either concentrically or eccentrically within the firestop system. The duct shall be constructed and reinforced in accordance with SMACNA construction standards. The space between the steel duct and periphery of opening shall be min 0 in. (point contact) to max 2 in. (51 mm). Steel duct to be rigidly supported on both sides of the wall assembly.  
 3 Firestop System — The firestop system shall consist of the following:  
 A. Packing Material — (Optional, Not Shown) — Polyethylene backer rod, mineral wool batt insulation or fiberglass batt insulation friction fitted into annular space. Packing material to be recessed from both surfaces of wall to accommodate the required thickness of fill material.  
 B. Fill, Void or Cavity Material — Sealant — Min 5/8 in. (16 mm) thickness of fill material applied within the annulus, flush with both surfaces of wall. Min 1/4 in. (6 mm) diam bead of fill material shall be applied at the point contact location between the steel duct and the gypsum board.  
 HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — FS-ONE Sealant or CP606 Flexible Firestop Sealant  
 C. Steel Retaining Angles — Min No. 16 gauge galv steel angles sized to lap steel duct a min of 2 in. (51 mm) and to lap wall surfaces a min of 1 in. (25 mm). When max duct dimension does not exceed 48 in. (122 cm) and duct area does not exceed 1300 in<sup>2</sup> (8387 cm<sup>2</sup>), angles may be min No. 18 gauge galv steel. Angles attached to steel duct on both sides of wall with min No. 10 by 1/2 in. (13 mm) long steel sheet metal screws located a max of 1 in. (25 mm) from each end of steel duct and spaced a max of 6 in. (152 mm) O.C. Steel angles are optional for those sides of duct that do not exceed the dimension specified in Table below, dependent on packing material and annular space as specified.



**N** DETAIL  
RELIEF LOUVER N.T.S.



**P** DETAIL  
AIR INTAKE LOUVER N.T.S.

#	DATE	CHANGE DESCRIPTION

**The Greater Dayton School**  
 Daniels Park Dr.  
 DAYTON, OH 45404  
 FOR  
**The Connor Group Kids & Community Partners**

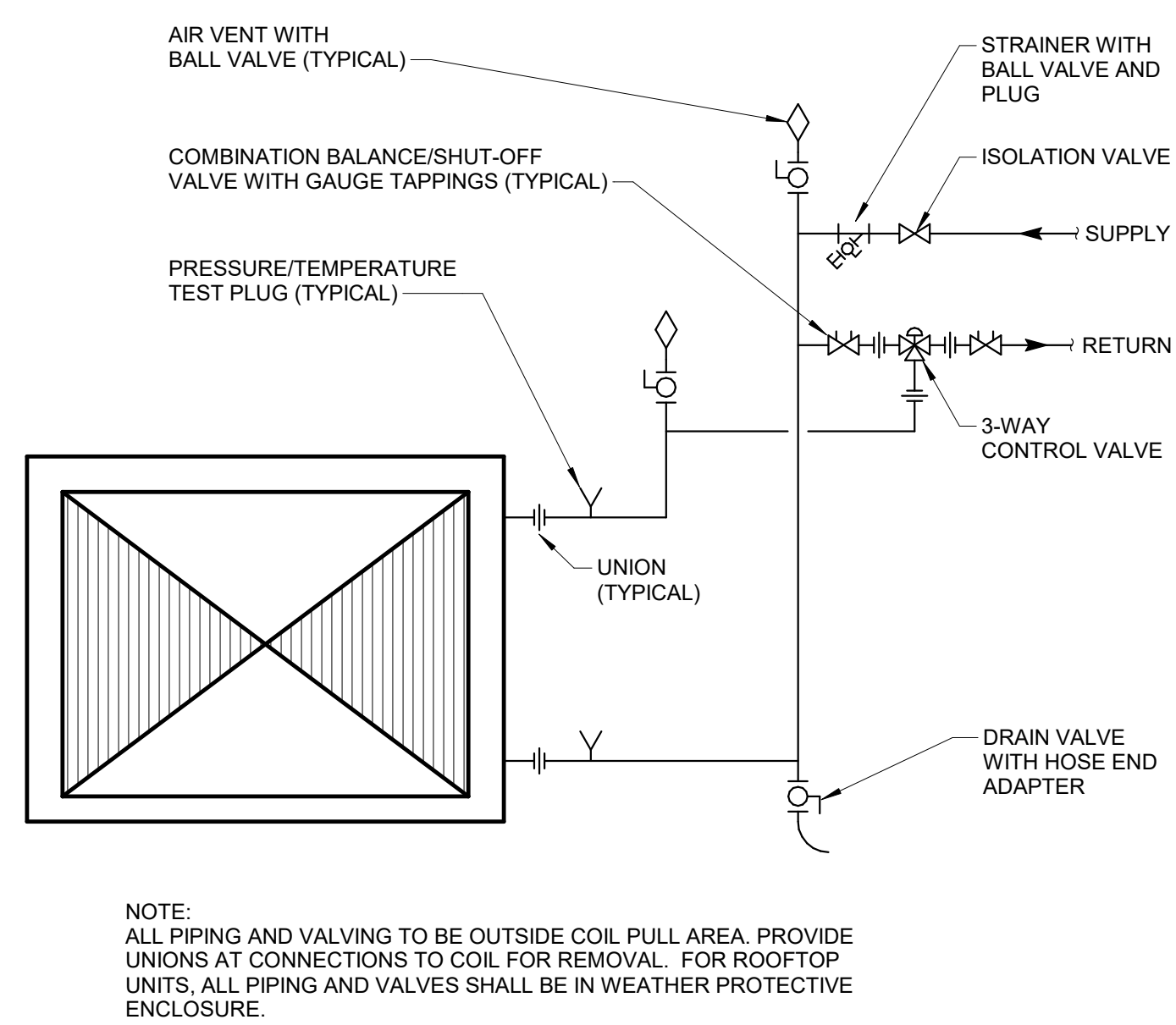
300 SPRUCE STREET  
 SUITE 300  
 COLUMBUS, OHIO 43215  
 PHONE: (614) 461-4664  
 FAX: (614) 280-8881

DRAWING TITLE: **HVAC DETAILS**

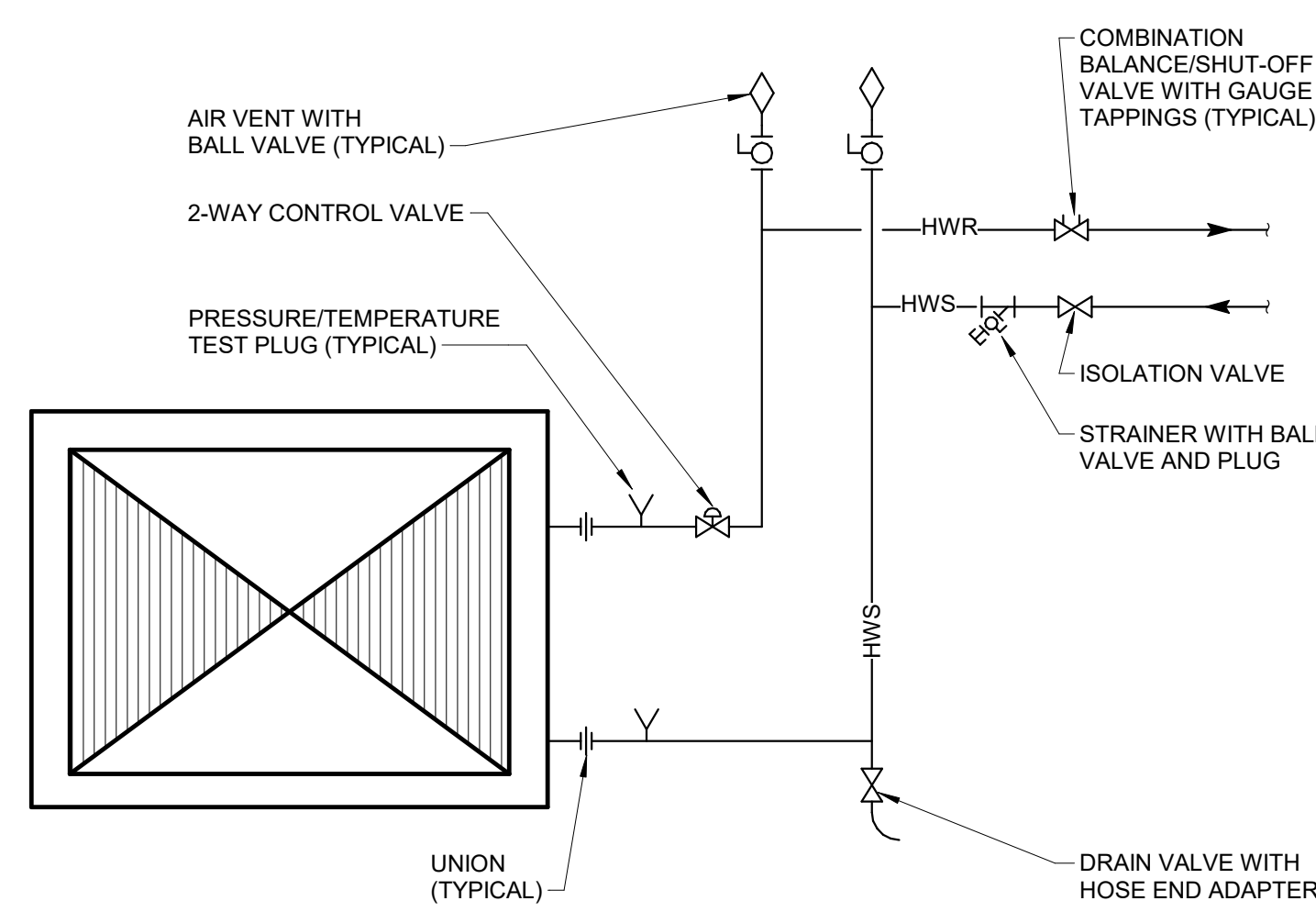
10/25/21  
 DRAWN BY: KORDA CHECKED BY: KORDA  
 Proj. # 18187  
**H601**  
 INTERIOR PACKAGE  
 CONSTRUCTION DOCUMENTS

**KORDA**  
 KORDA NEMETH ENGINEERING  
 1650 WATERMARK DRIVE  
 SUITE 200  
 COLUMBUS, OHIO 43215  
 DRAWN BY: Arin Grant  
 DESIGNED BY: Dan Edwards  
 CHECKED BY: Eric Swanson  
 PROJECT NUMBER: 2018-217

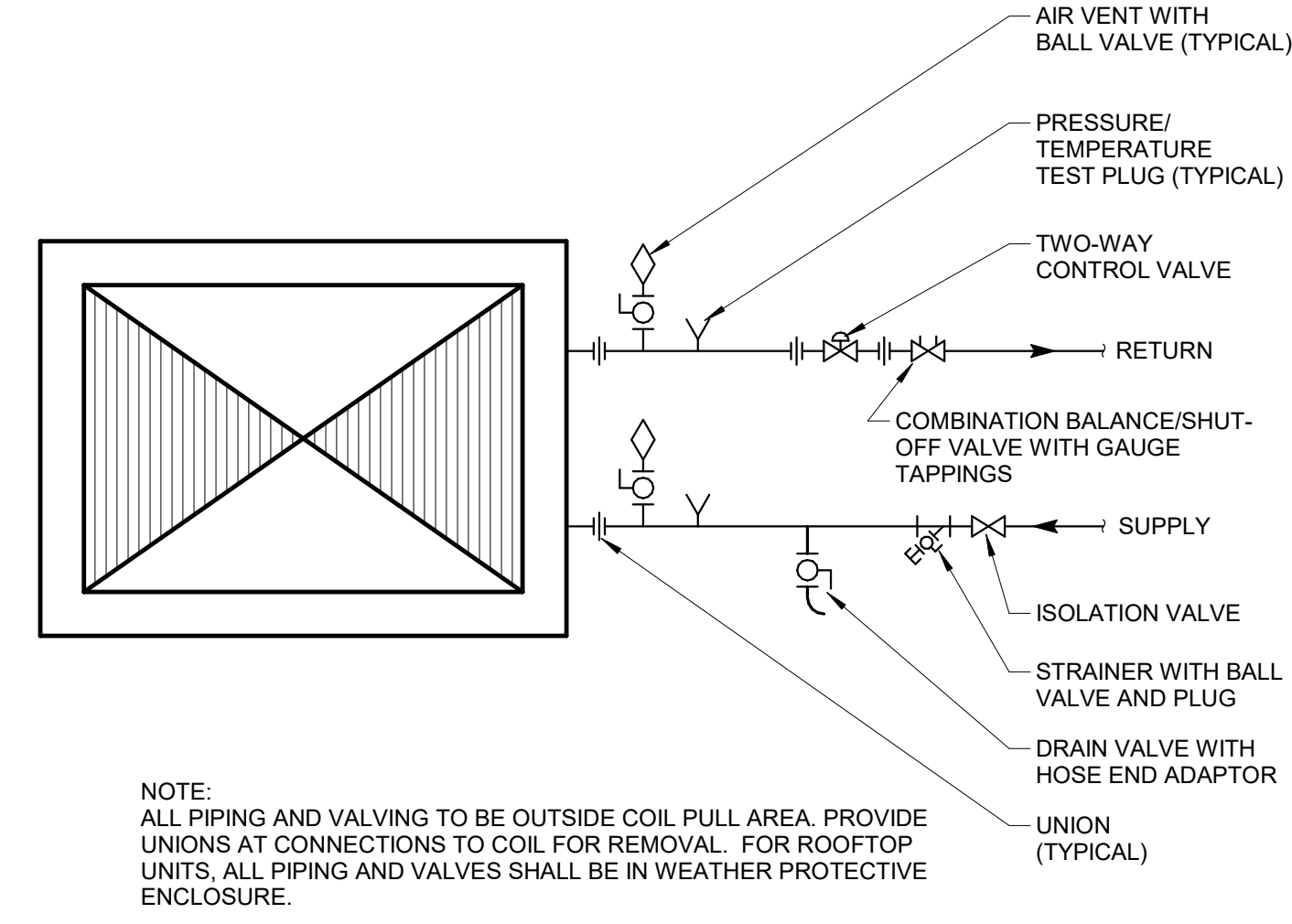
MOODY-NOLAN  
 REGISTERED PROFESSIONAL ENGINEER  
 STATE OF OHIO  
 DANIEL J. EDWARDS  
 573218  
 10-25-21



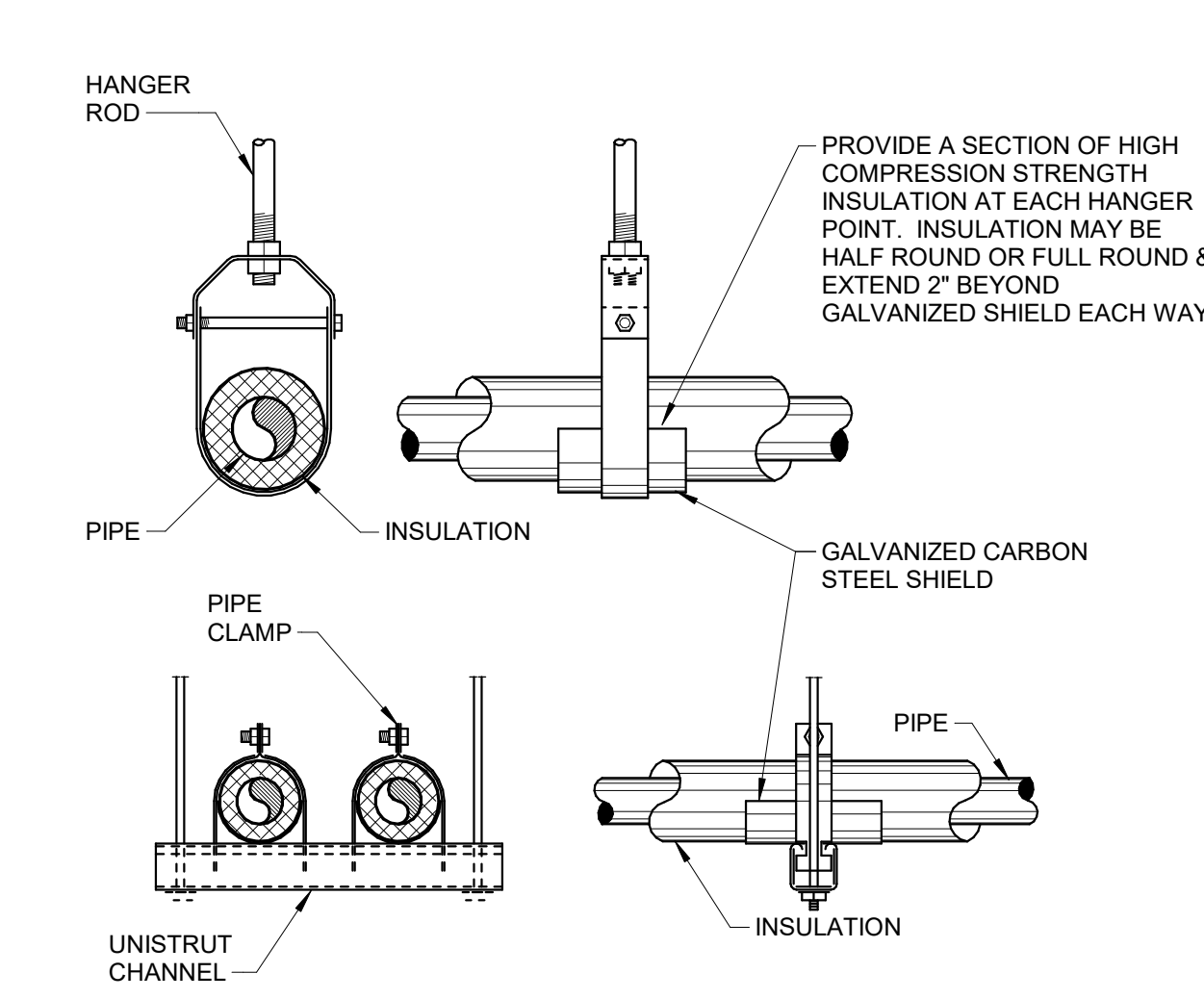
**A** DETAIL  
TERMINAL UNIT COIL PIPING (3-WAY VALVE) N.T.S.



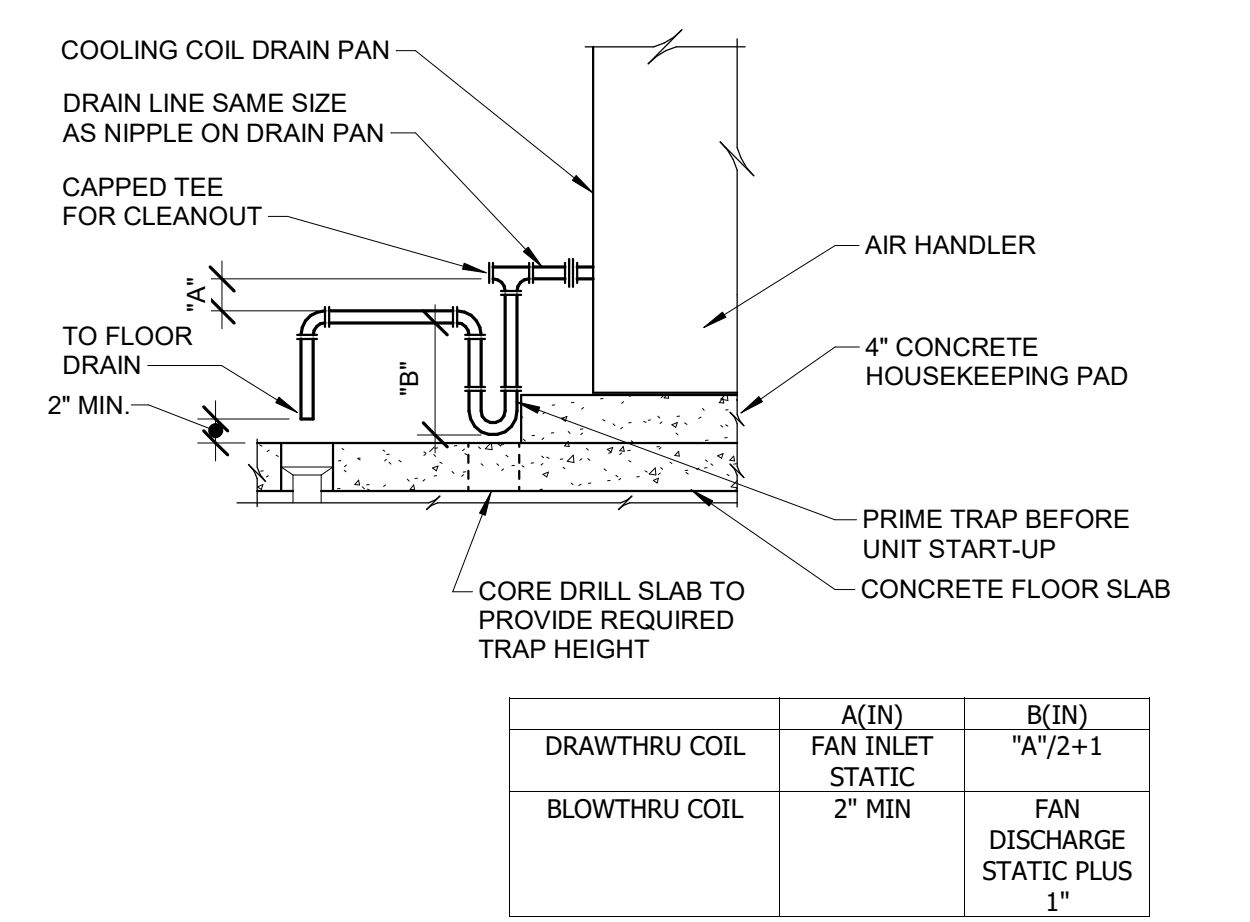
**B** DETAIL  
UNIT HEATER & CABINET UNIT HEATER PIPING N.T.S.



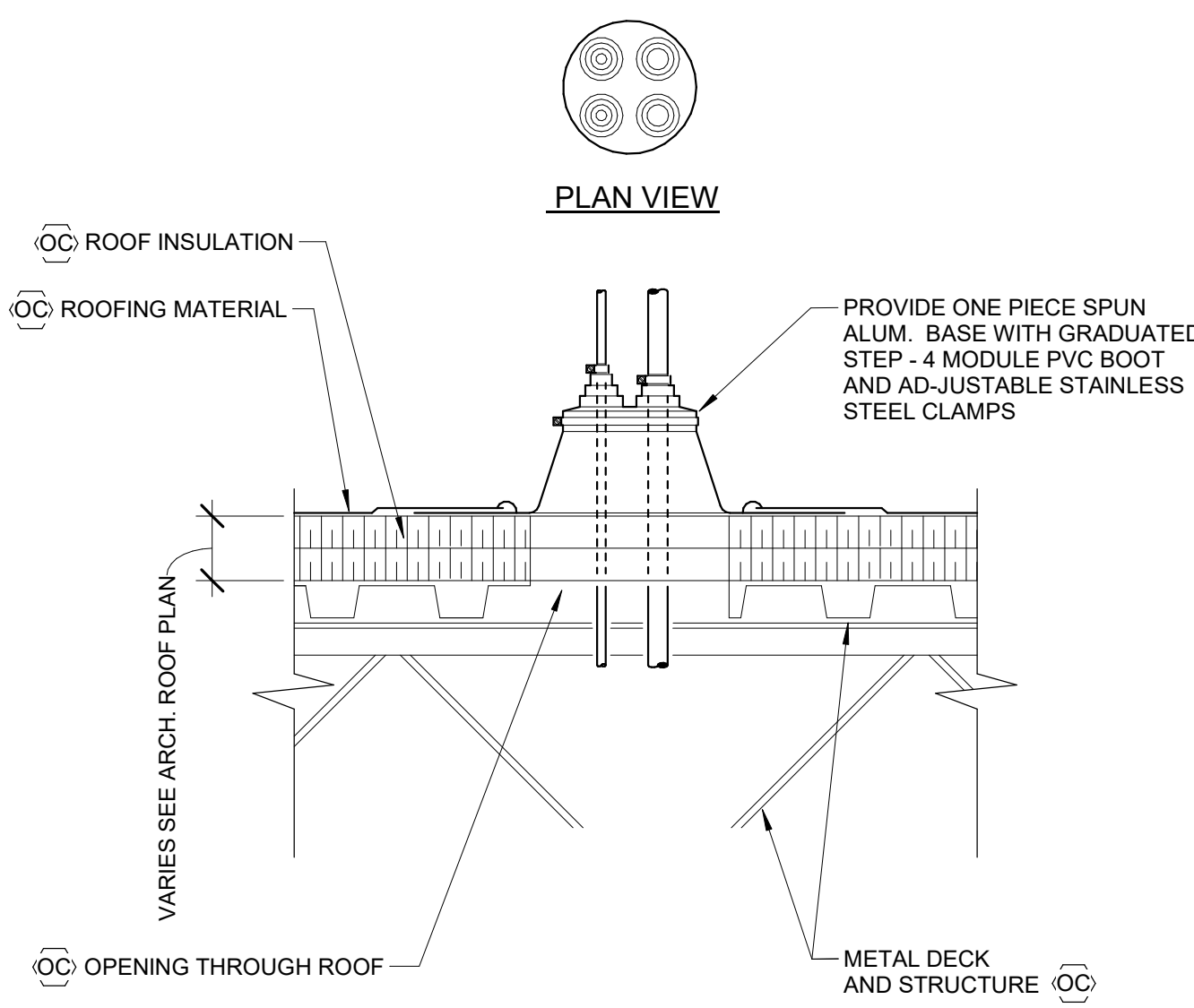
**C** DETAIL  
TERMINAL UNIT COIL PIPING (2-WAY VALVE) N.T.S.



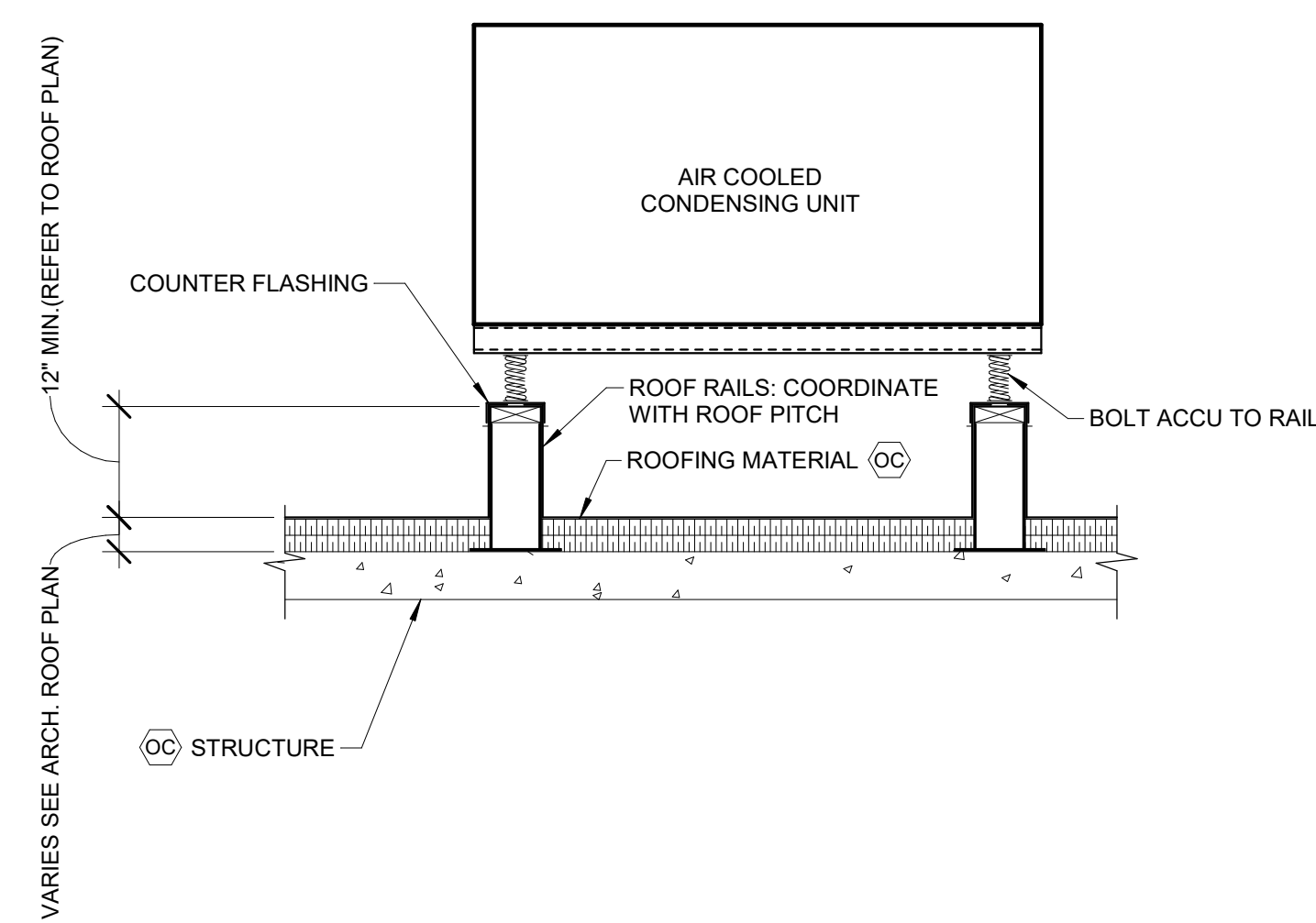
**D** DETAIL  
TYPICAL PIPE HANGER N.T.S.



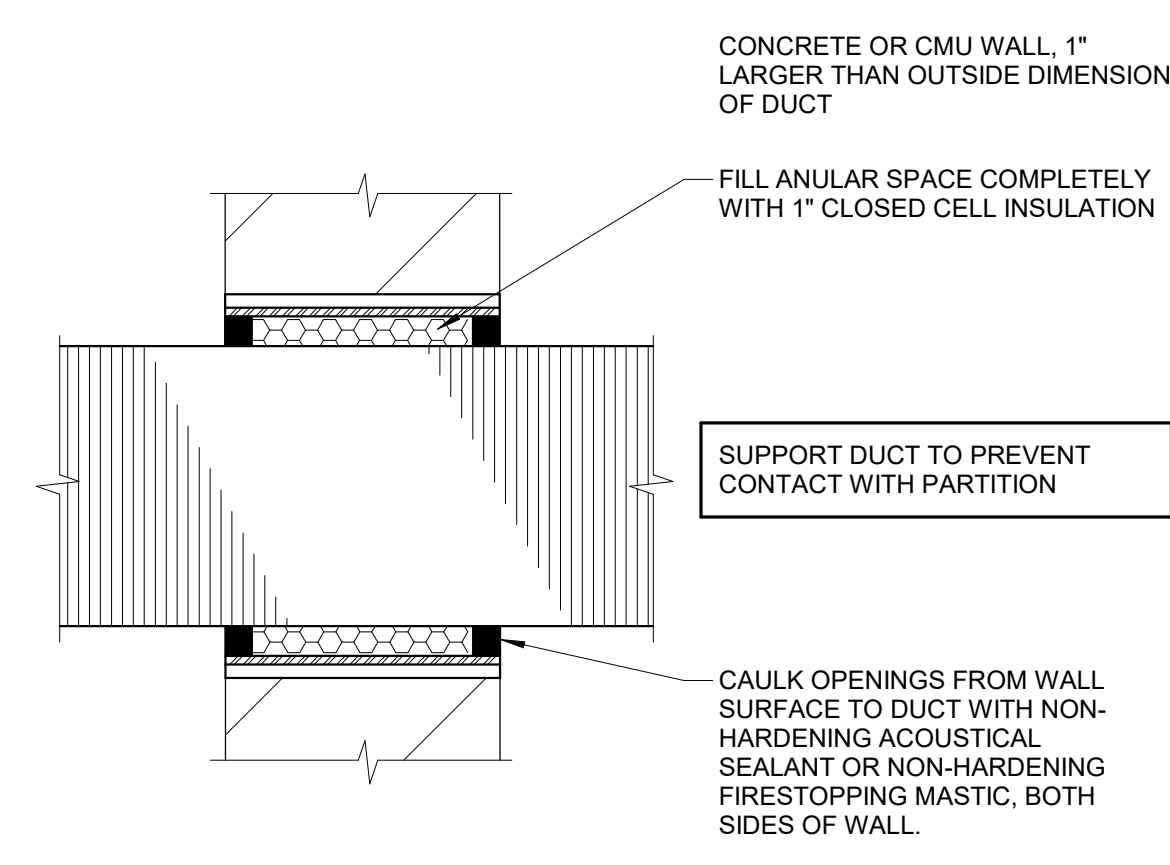
**E** DETAIL  
CONDENSATION DRAIN TRAP PIPING N.T.S.



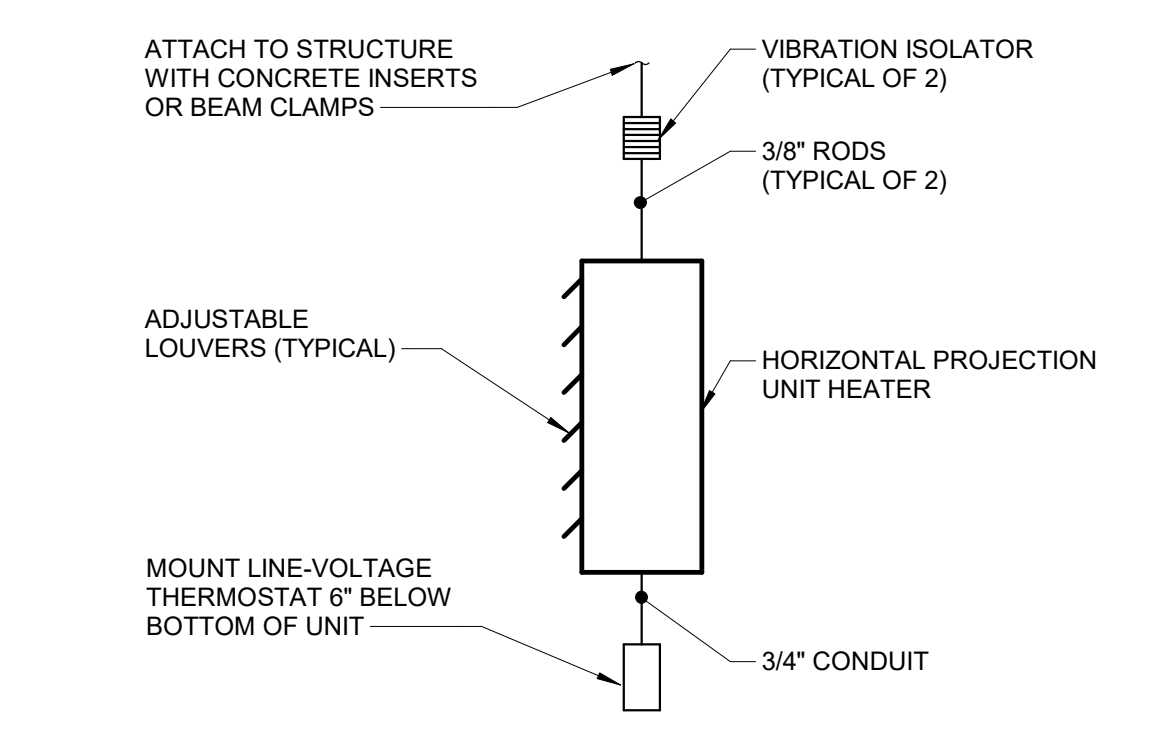
**F** DETAIL  
PIPE SEAL THROUGH ROOF N.T.S.



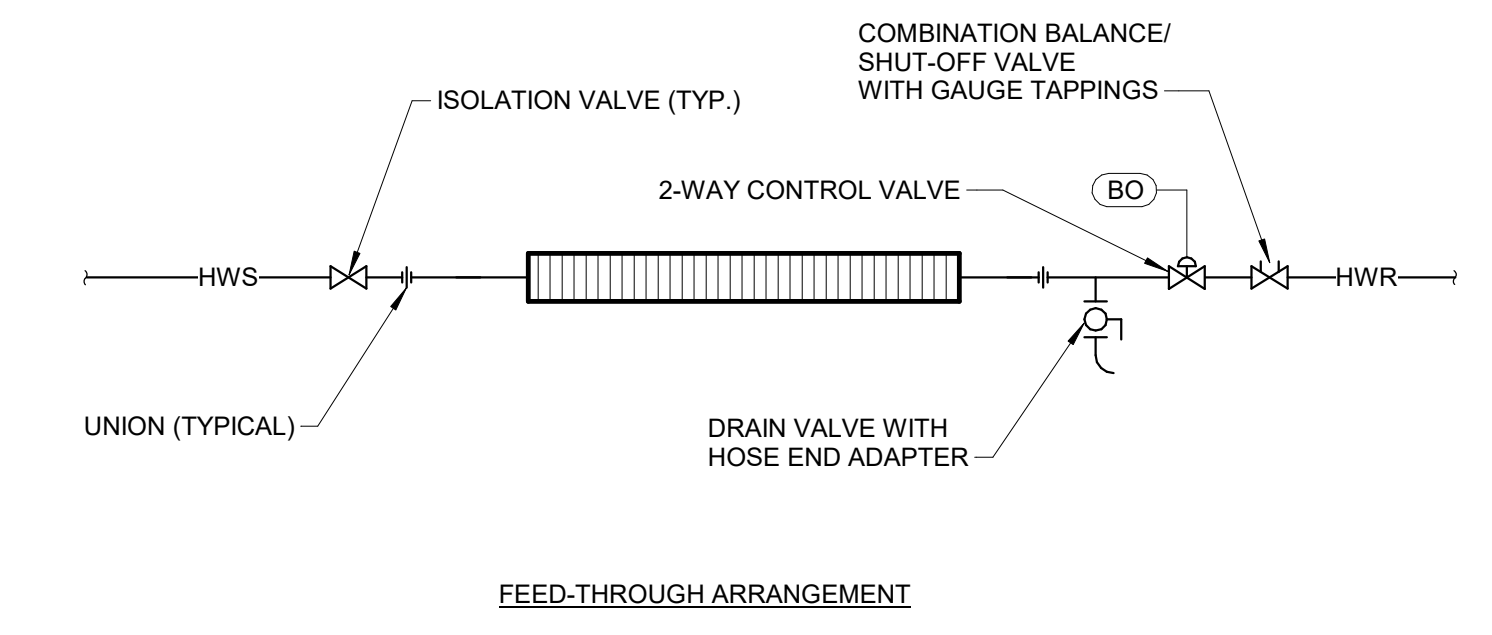
**G** DETAIL  
ROOF RAILS N.T.S.



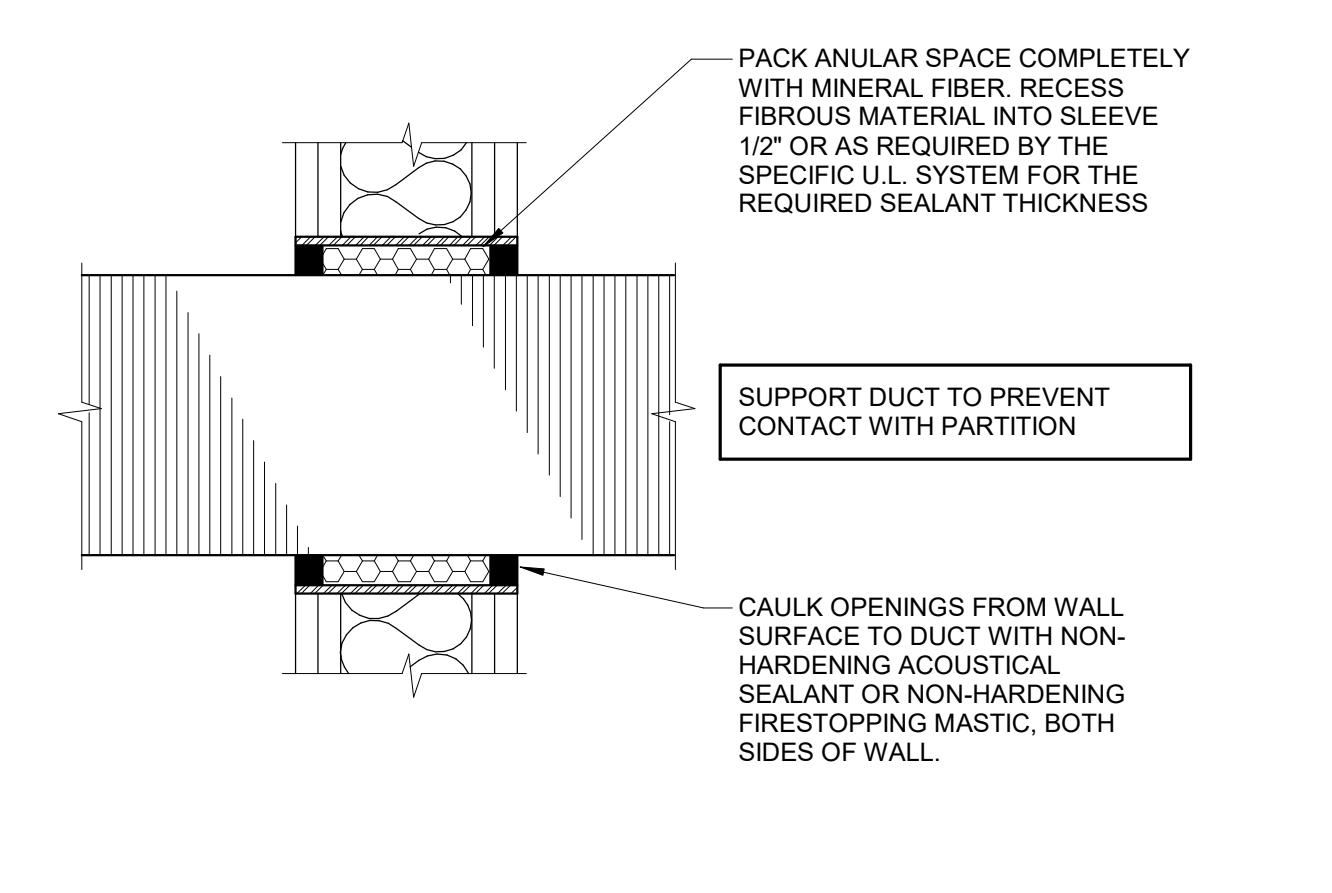
**H** DETAIL  
ACOUSTICAL PENETRATIONS IN CMU PARTITION N.T.S.



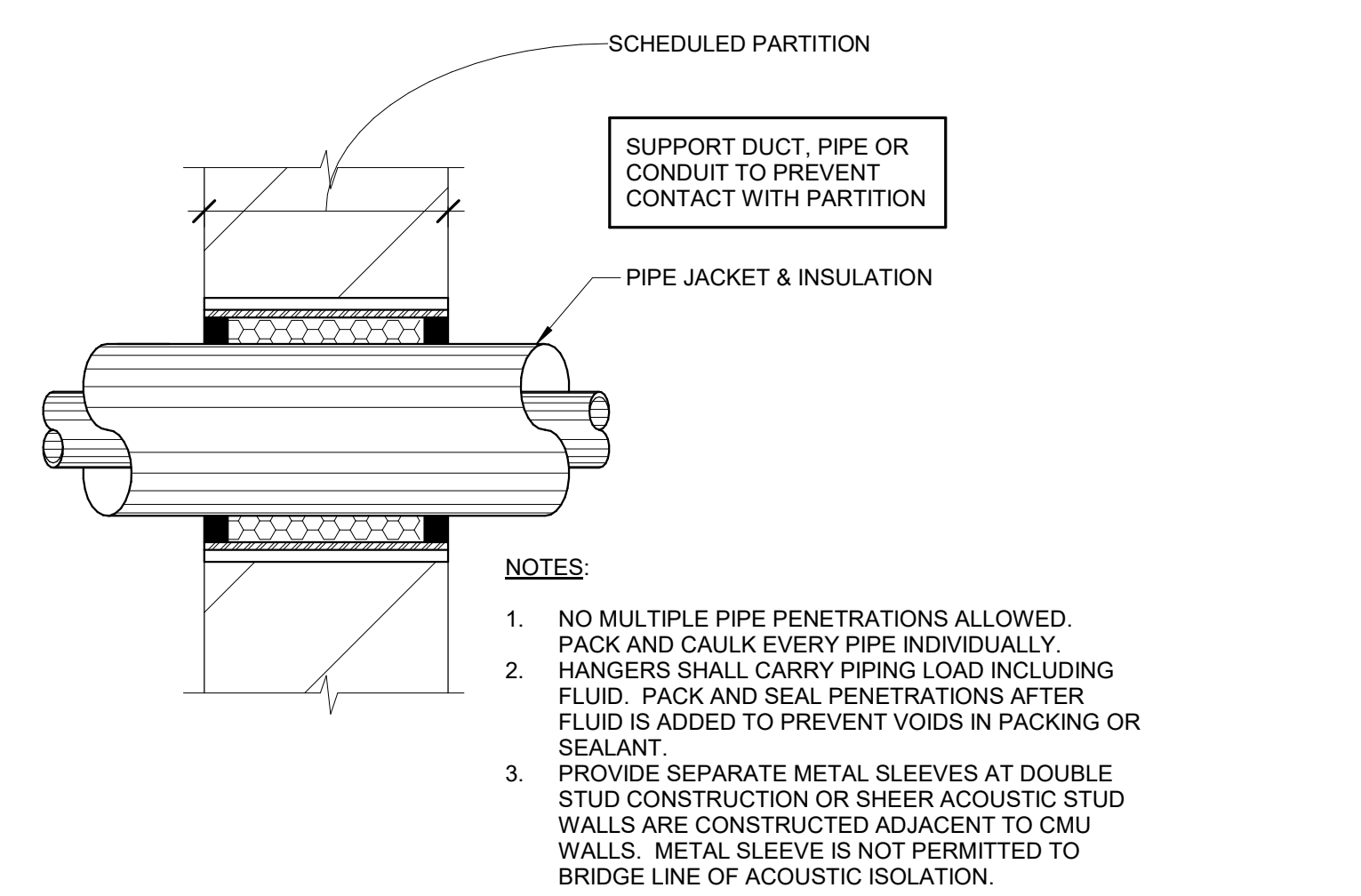
**J** DETAIL  
UNIT HEATER MOUNTING N.T.S.



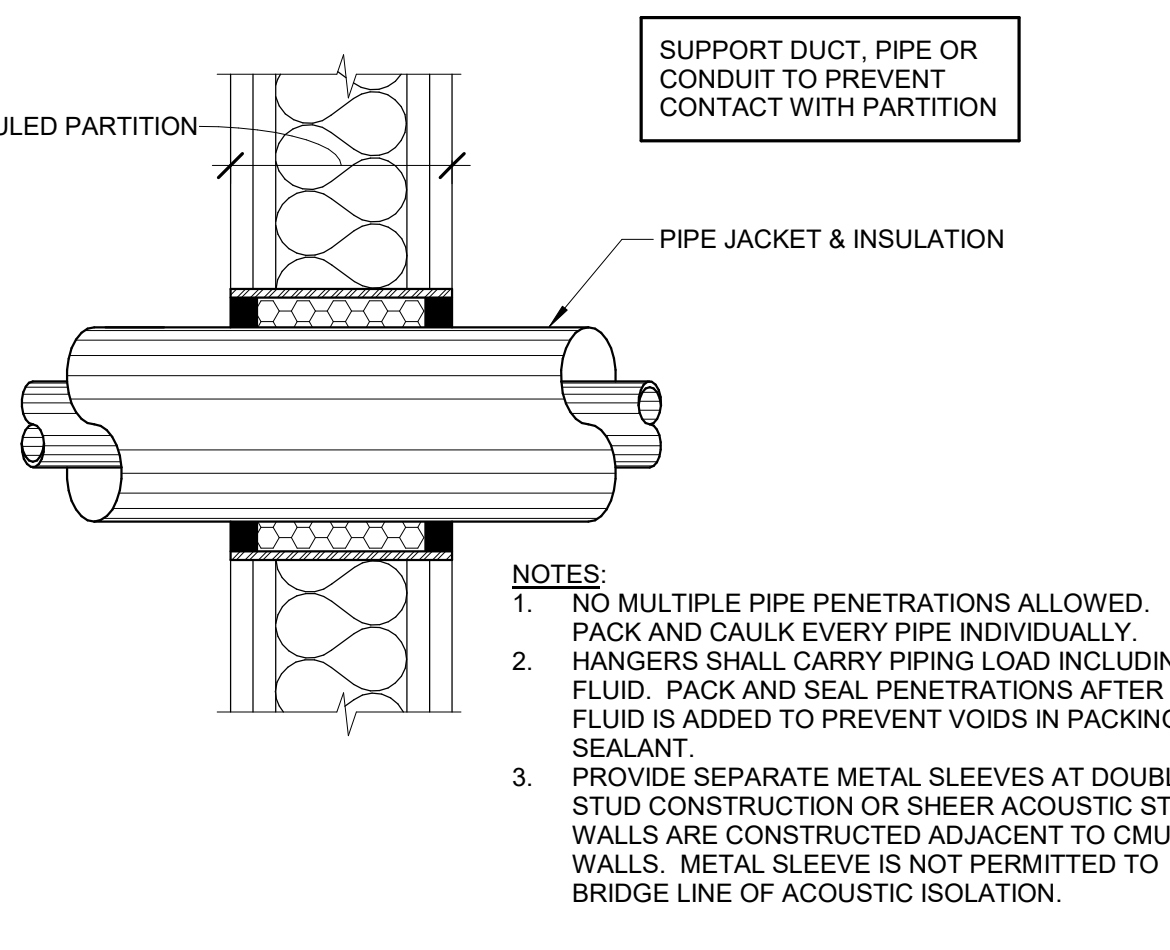
**K** DETAIL  
FINNED RADIATION PIPING N.T.S.



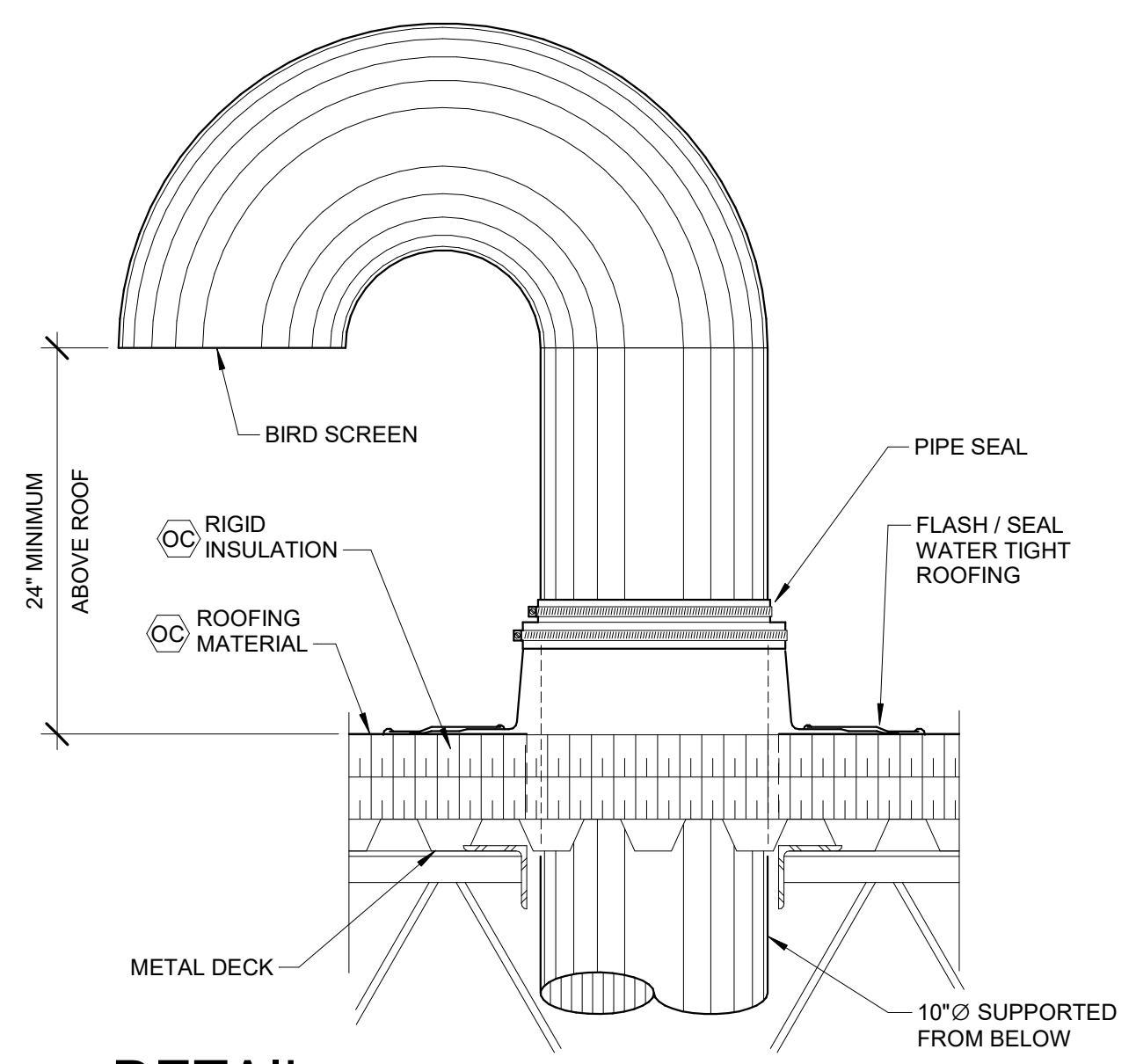
**L** DETAIL  
ACOUSTICAL PENETRATION IN GWB PARTITION N.T.S.



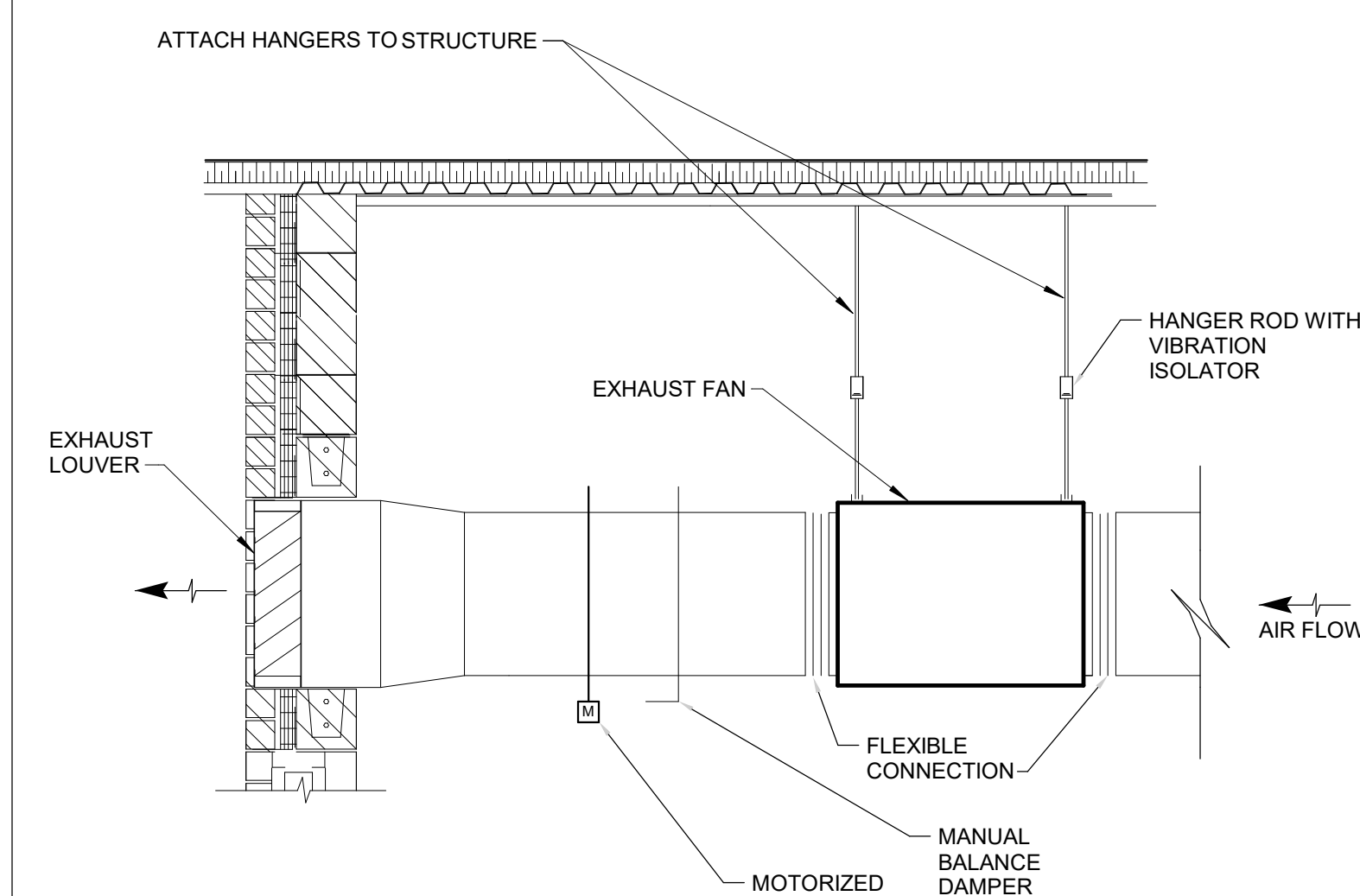
**M** DETAIL  
ACOUSTICAL PENETRATION IN CMU PARTITION N.T.S.



**N** DETAIL  
ACOUSTICAL PENETRATION IN GWB PARTITION N.T.S.



**P** DETAIL  
BOILER AIR INTAKE N.T.S.



**Q** DETAIL  
HUNG IN-LINE EXHAUST FAN N.T.S.

#	DATE	CHANGE DESCRIPTION

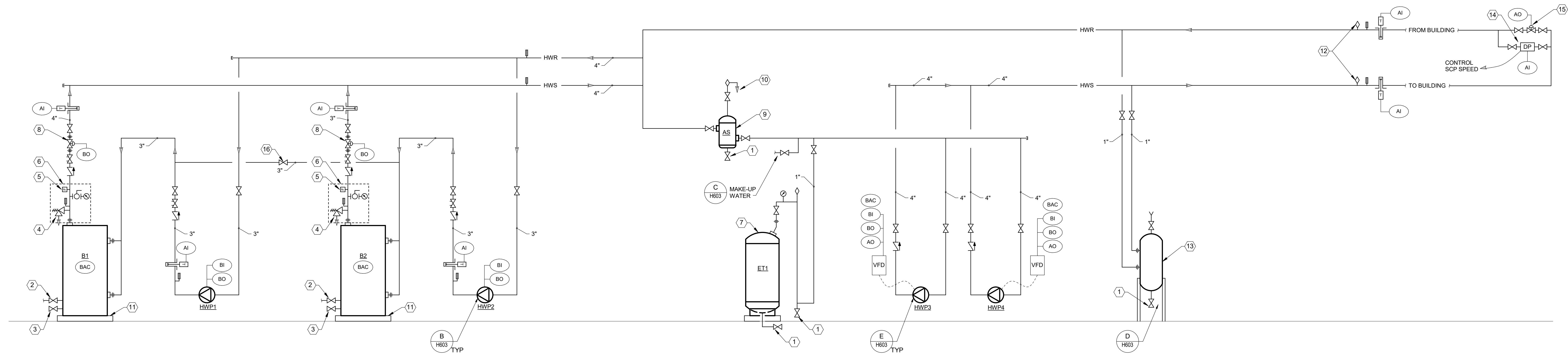
**The Greater Dayton School**  
Dwight Park Dr.  
DAYTON, OH 45404  
FOR  
**The Connor Group Kids & Community Partners**

300 SPRUCE STREET  
SUITE 300  
COLUMBUS, OHIO 43215  
PHONE: (614) 461-4664  
FAX: (614) 280-8881

DRAWING TITLE:  
**HVAC DETAILS**

10/25/21  
DRAWN BY: KORDA CHECKED BY: KORDA  
Proj. # 18187  
**H602**  
INTERIOR PACKAGE  
CONSTRUCTION DOCUMENTS

**KORDA**  
KORDA, NEMETH ENGINEERING  
1650 WATERMARK DRIVE  
SUITE 200  
COLUMBUS, OHIO 43215  
DRAWN BY: Alex Giam  
DESIGNED BY: Dan Edwards  
CHECKED BY: Eric Steinhilber  
PROJECT NUMBER: 2018-217



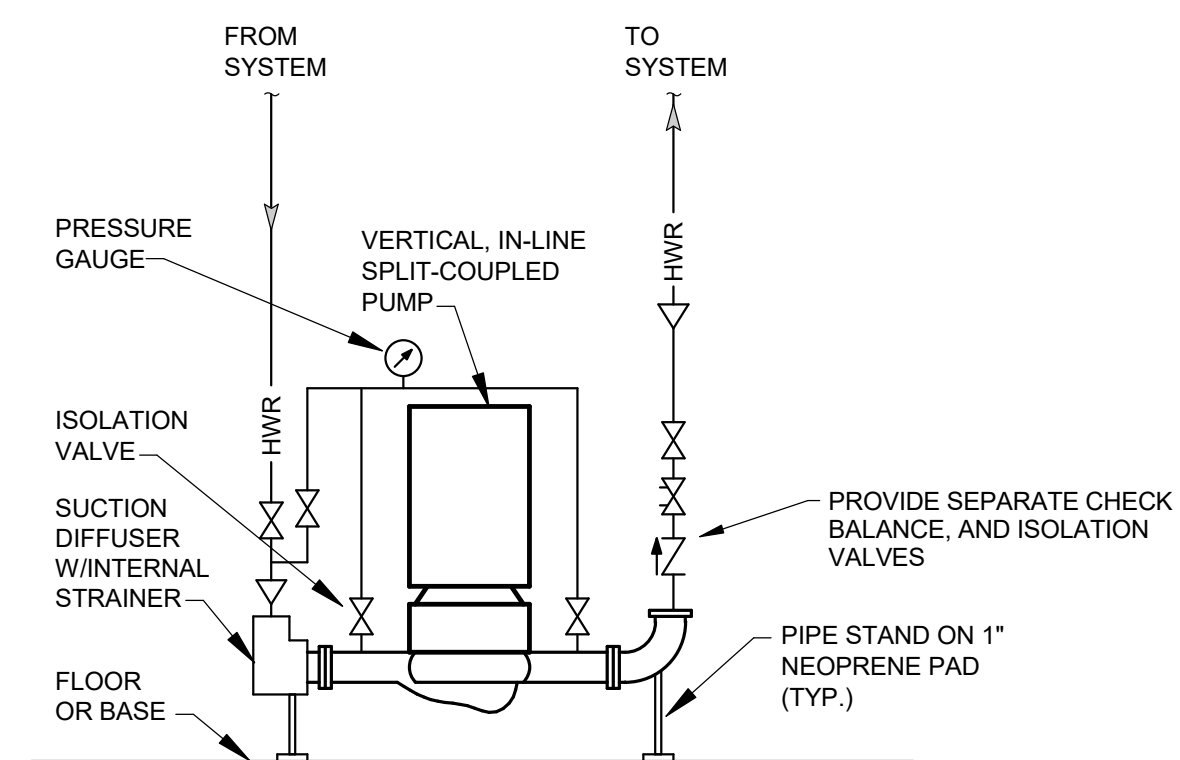
**CODED NOTES**

1. 0.75" DRAIN VALVE WITH HOSE THREAD FITTING.
2. FULL SIZE STAINLESS STEEL CONDENSATE DRAIN AND VALVE TO CONDENSATE NEUTRALIZING TANK. EXTEND NEUTRALIZING TANK DISCHARGE TO FLOOR DRAIN.
3. FULL SIZE STAINLESS STEEL DRAIN VALVE WITH THREADED CAP.
4. SAFETY RELIEF VALVE - FACTORY FURNISHED. PIPE DISCHARGE TO FLOOR DRAIN. SET AT 90 PSI.
5. FLOW SWITCH - FACTORY FURNISHED.
6. FACTORY SUPPLIED, PIPED AND WIRED.
7. EXPANSION TANK. 1/2" RELIEF VALVE PRESSURE SETTING EQUAL TO TANK PRESSURE RATING.
8. TWO POSITION ISOLATION CONTROL VALVE (FULL LINE SIZE).
9. LINE SIZE AIR SEPARATOR.
10. LARGE CAPACITY AUTOMATIC AIR VENT. PIPE DISCHARGE TO FLOOR DRAIN.
11. 4" HOUSEKEEPING PAD BY G.C.
12. MANUAL AIR VENT AT HIGH POINTS OF PIPING (LOCATIONS SHOWN ARE ARBITRARY. ADJUST LOCATIONS PER ACTUAL INSTALLATION).
13. CHEMICAL SHOT FEEDER.
14. DIFFERENTIAL PRESSURE SENSOR.
15. 2" FLOW MODULATING TWO-WAY CONTROL VALVE.
16. LINE-SIZED BYPASS WITH N.C. VALVE FOR MANUAL SWITCH OVER OF PRIMARY BOILER PUMPS.

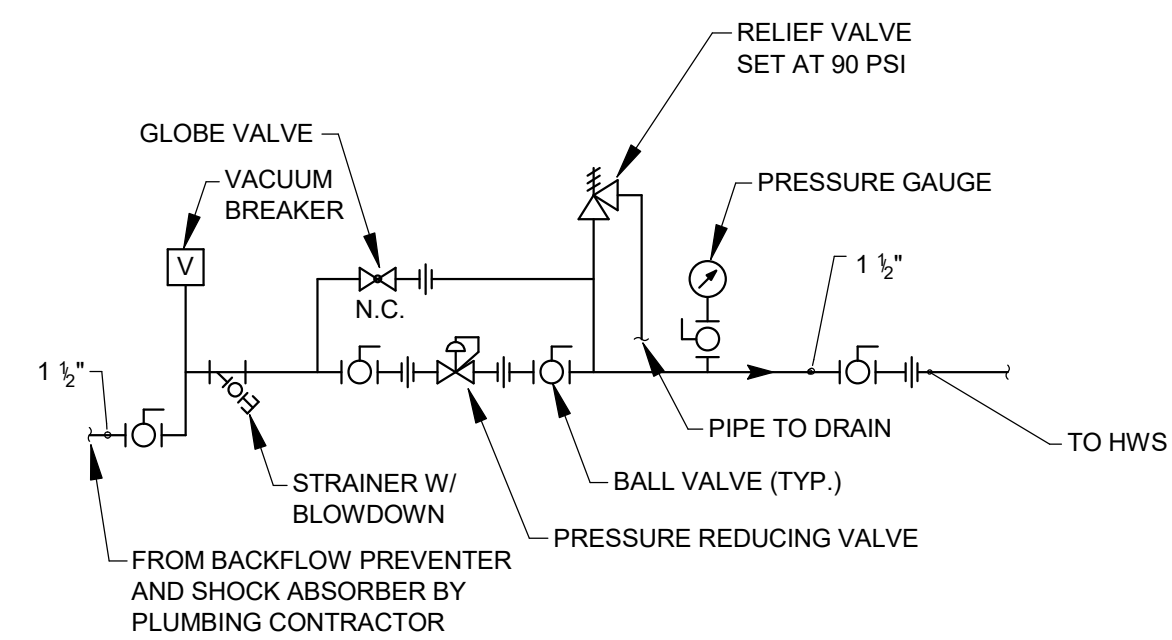
**TEMPERATURE CONTROL SYMBOLS**

- (BO) BINARY OUTPUT FROM DDC SYSTEM
- (BI) BINARY INPUT TO DDC SYSTEM
- (AO) ANALOG OUTPUT FROM DDC SYSTEM
- (AI) ANALOG INPUT TO DDC SYSTEM
- (BAC) BACNET CONNECTION

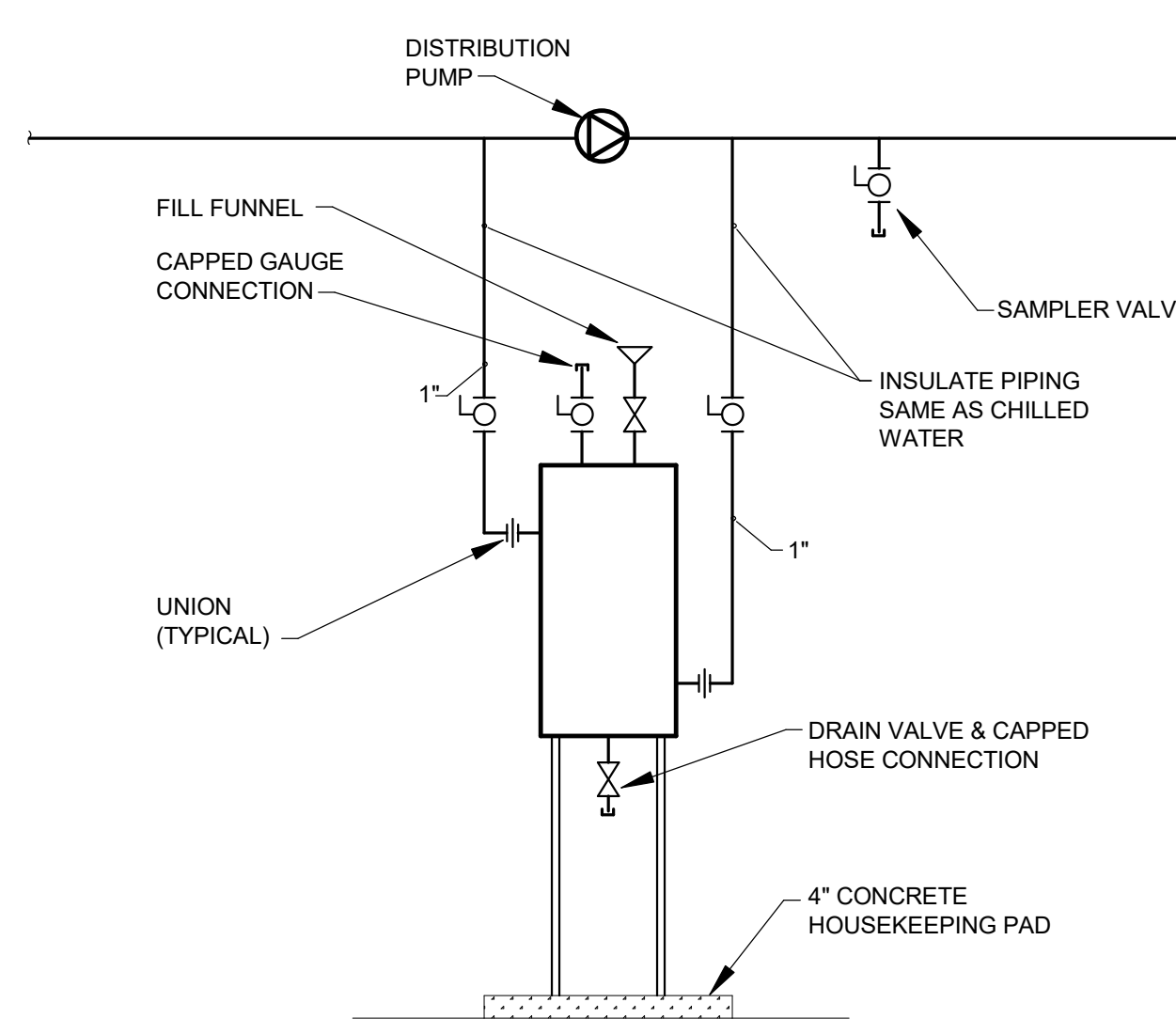
**A SCHEMATIC**  
HOT WATER SYSTEM N.T.S.



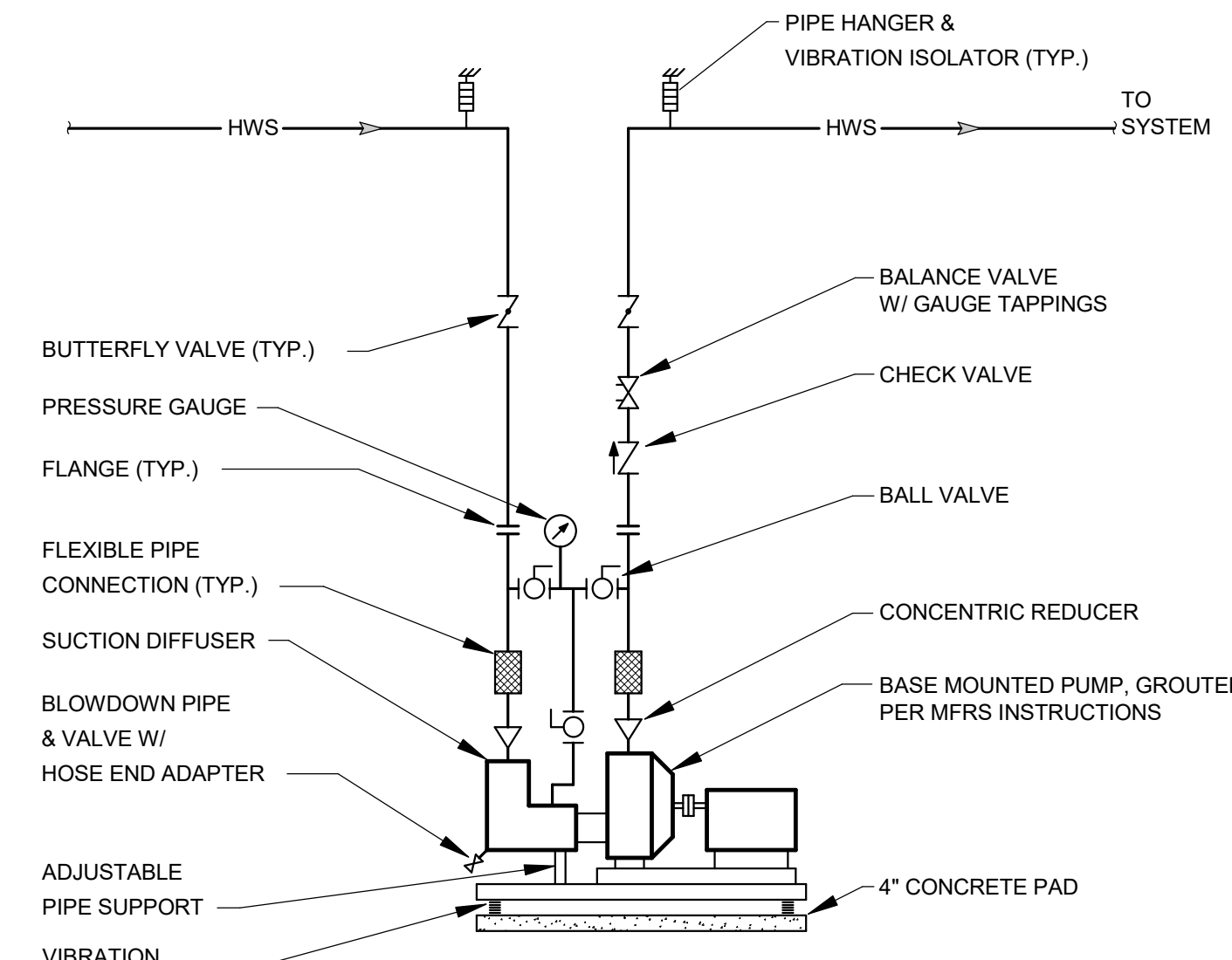
**B DETAIL**  
PUMP - VERTICAL INLINE (SUPPORTED FROM FLOOR) N.T.S.



**C DETAIL**  
MAKE-UP WATER PIPING HEATING WATER N.T.S.



**D DETAIL**  
SHOT FEEDER PIPING N.T.S.



**E DETAIL**  
END SUCTION PUMP PIPING N.T.S.

#	DATE	CHANGE DESCRIPTION

**The Greater Dayton School**  
Dwight Park Dr.  
DAYTON, OH 45404  
FOR  
**The Connor Group Kids & Community Partners**

300 SPRUCE STREET  
SUITE 300  
COLUMBUS, OHIO 43215  
PHONE: (614) 461-4664  
FAX: (614) 280-8881

DRAWING TITLE: **HVAC DETAILS**

10/25/21	DRAWN BY: KORDA	CHECKED BY: KORDA
Proj. # 18187		
<b>H603</b>		
INTERIOR PACKAGE CONSTRUCTION DOCUMENTS		

**KORDA**  
KORDA, NEMETH ENGINEERING  
1650 WATERMARK DRIVE  
SUITE 200  
COLUMBUS, OHIO 43215  
DRAWN BY: Aron Giam  
DESIGNED BY: Dan Edwards/MSJ  
CHECKED BY: Eric Swanson  
PROJECT NUMBER: 2018-217

**DANIEL J. EDWARDS**  
REGISTERED PROFESSIONAL ENGINEER  
STATE OF OHIO  
No. 97318