



EDINBURG CISD

PURCHASING DEPARTMENT

411 N. 8th Ave., Edinburg, TX 78541

(956) 289-2311, (956) 383-7687

DOMINGA "MINGA" VELA, President
CARMEN GONZÁLEZ, Vice President
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MIGUEL "MIKE" FARIAS, Member
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Dr. Mario H. Salinas, Superintendent

ADDENDUM 1

CSP 22-68

Memorial Middle School Heating & Air Condition (HVAC) Improvements Funded through the Elementary & Secondary Emergency Relief (ESSER) Funds March 28, 2022

I. INSTRUCTIONS:

- A. The following changes, omissions or alterations to the specification and drawings shall be made insofar as the specifications and drawings are inconsistent with following, this addendum shall govern.
- B. Acknowledge receipt of this addendum by inserting its number and date of issue in the place provided for same in the proposal. This addendum forms a part of the Contract Documents.
- C. It is imperative that this addendum be inserted INTO set of specifications.

II. SEE ADDENDUM BELOW:

Item No. 1 Mechanical and Electrical Drawings

- A. Replace all mechanical and electrical sheets in their entirety. Reference seal date of 3/23/2022 for the new scope of work.

Item No. 2 Opening of Proposals:

- A. Opening of proposals modified to Wednesday, April 13, 2022, 4:00 PM

Respectfully Submitted,

Amaro Tijerina
Director of Purchasing

(Signature of authorized officer)

Date

Company Name

Nondiscrimination Statement

It is the policy of Edinburg CISD not to discriminate on the basis of gender, age, handicap, religion, race, color, or national origin in its educational programs.

Es poliza del Distrito Escolar de Edinburg el no discriminar por razones con base en genero, edad, religion, raza, color origen nacional, ni discapacidad dentro de sus programas educacionales.

Addendum

DATE
3/23/2022

ADDENDUM NO.
1



PROJECT 218007.002 | Edinburg CISD - Memorial MS - HVAC Improvements

The work described herein shall be added to the scope of work defined by the contract documents or it shall modify the scope of work defined by the contract documents as described. This work shall become a part of the contract documents by addendum.

DRAWINGS

Item 01 Mechanical and Electrical Drawings

- A. Replace all mechanical and electrical sheets in their entirety. Reference seal date of 3/23/2022 for the new scope of work

END OF ADDENDUM

EDINBURG C.I.S.D DISTRICT WIDE HVAC IMPROVEMENTS MEMORIAL MIDDLE SCHOOL



BOARD OF TRUSTEES

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100% CONSTRUCTION DOCUMENTS

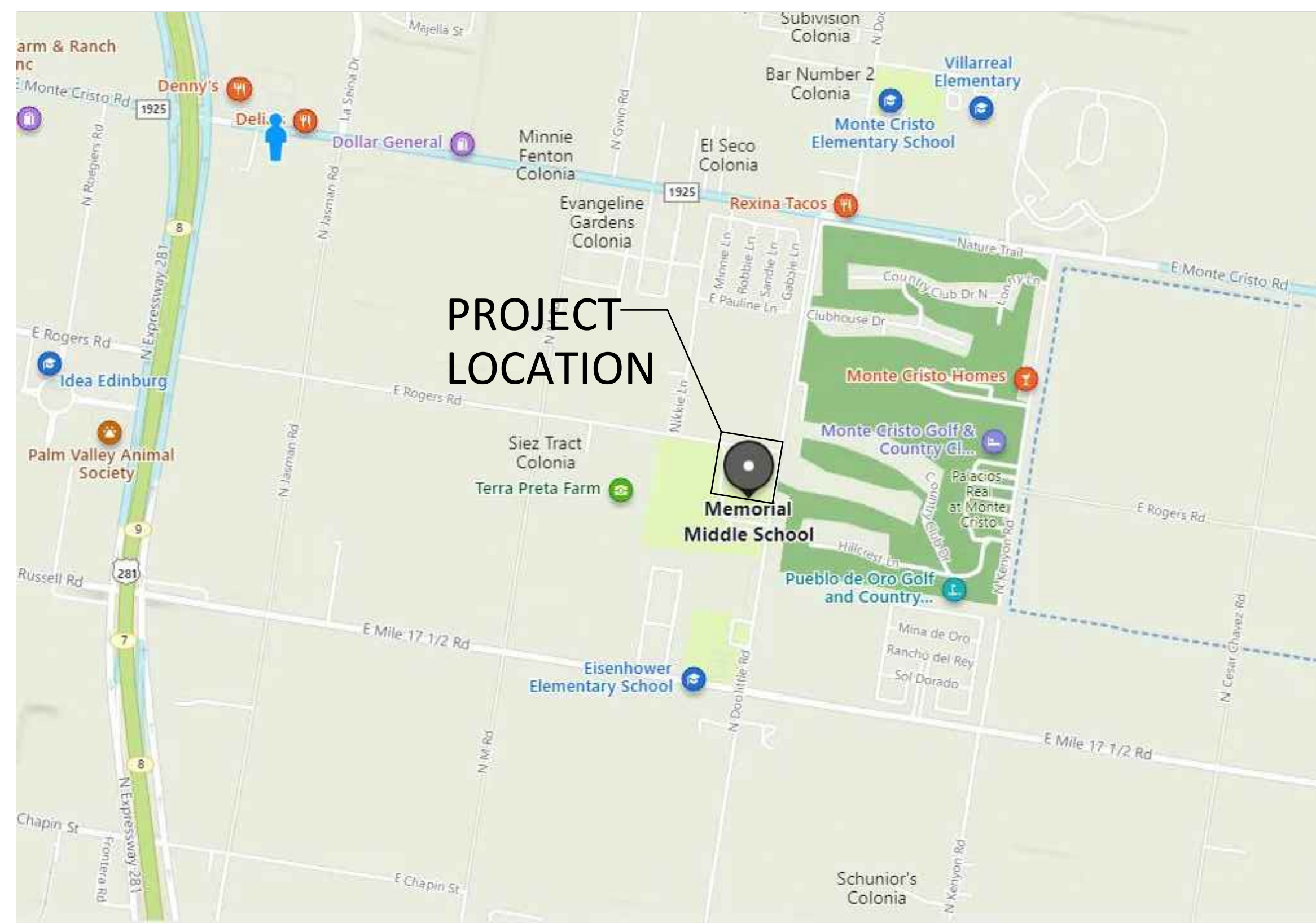
PROJECT TEAM

DBR Inc.
200 S. 10th St.
Suite 901
McAllen, Texas 782501
956-683-1640
MEP Engineer
Roberto H. Tijerina, P.E.
Rtijerina@dbrinc.com

Edinburg C.I.S.D.
411 N. 8th Ave.
Edinburg, Tx 78539

ECISD Project Manager
Carlos Lima

LOCATION



3105 N Doolittle Rd,
Edinburg, Tx 78542
Tel:(956)289-2470



SHEET LIST TABLE

| Sheet No. | Sheet Title |
|-----------|--|
| G0.00 | COVER SHEET |
| M0.01 | MECHANICAL LEGEND |
| MEP1.01 | MEP SITE PLAN |
| MD1.11 | COMPOSITE LEVEL 1 MECHANICAL DEMO HYDRONIC PIPING PLAN |
| MD1.12 | COMPOSITE LEVEL 1 MECHANICAL DEMO HYDRONIC PIPING PLAN |
| MD1.21 | COMPOSITE LEVEL 2 MECHANICAL DEMO HYDRONIC PIPING PLAN |
| MD2.11A | LEVEL 1 MECHANICAL DEMO PLAN - A |
| MD2.11B | LEVEL 1 MECHANICAL DEMO PLAN - B |
| MD2.11C | LEVEL 1 MECHANICAL DEMO PLAN - C |
| MD2.11D | LEVEL 1 MECHANICAL DEMO PLAN - D |
| MD2.12E | LEVEL 1 MECHANICAL DEMO PLAN - E |
| MD2.12F | LEVEL 1 MECHANICAL DEMO PLAN - F |
| MD2.13G | LEVEL 1 MECHANICAL DEMO PLAN - G |
| MD2.21A | LEVEL 2 MECHANICAL DEMO PLAN - A |
| MD2.21B | LEVEL 2 MECHANICAL DEMO PLAN - B |
| MD2.21C | LEVEL 2 MECHANICAL DEMO PLAN - C |
| MD2.21D | LEVEL 2 MECHANICAL DEMO PLAN - D |
| MD3.10 | ENLARGED MECHANICAL DEMO PLAN |
| MD3.11 | ENLARGED MECHANICAL DEMO PLAN |
| MD3.12 | ENLARGED MECHANICAL DEMO PLAN |
| MD3.13 | ENLARGED MECHANICAL DEMO PLAN |
| M1.11 | COMPOSITE LEVEL 1 MECHANICAL HYDRONIC PIPING PLAN |
| M1.12 | COMPOSITE LEVEL 1 MECHANICAL HYDRONIC PIPING PLAN |
| M1.21 | COMPOSITE LEVEL 2 MECHANICAL HYDRONIC PIPING PLAN |
| M2.11A | LEVEL 1 MECHANICAL PLAN - A |
| M2.11B | LEVEL 1 MECHANICAL PLAN - B |
| M2.11C | LEVEL 1 MECHANICAL PLAN - C |
| M2.11D | LEVEL 1 MECHANICAL PLAN - D |
| M2.12E | LEVEL 1 MECHANICAL PLAN - E |
| M2.12F | LEVEL 1 MECHANICAL PLAN - F |
| M2.13G | LEVEL 1 MECHANICAL PLAN - G |
| M2.21A | LEVEL 2 MECHANICAL PLAN - A |
| M2.21B | LEVEL 2 MECHANICAL PLAN - B |
| M2.21C | LEVEL 2 MECHANICAL PLAN - C |
| M2.21D | LEVEL 2 MECHANICAL PLAN - D |
| M3.10 | ENLARGED MECHANICAL ROOM PLANS |
| M3.11 | ENLARGED MECHANICAL ROOM PLANS |
| M3.12 | ENLARGED MECHANICAL ROOM PLANS |
| M3.13 | ENLARGED MECHANICAL ROOM PLANS |
| M4.01 | MECHANICAL CONTROLS |
| M4.02 | MECHANICAL CONTROLS |
| M4.03 | MECHANICAL CONTROLS |
| M5.01 | MECHANICAL SCHEDULES |
| M5.02 | MECHANICAL SCHEDULES |
| M6.01 | MECHANICAL DETAILS |
| E0.01 | ELECTRICAL SYMBOLS AND ABBREVIATIONS |
| EPD1.11 | COMPOSITE LEVEL 1 ELECTRICAL POWER DEMOLITION PLAN |
| EPD1.12 | COMPOSITE LEVEL 1 ELECTRICAL POWER DEMOLITION PLAN |
| EPD1.21 | COMPOSITE LEVEL 2 ELECTRICAL POWER DEMOLITION PLAN |
| EP2.11A | LEVEL 1 ELECTRICAL POWER PLAN - A |
| EP2.11B | LEVEL 1 ELECTRICAL POWER PLAN - B |
| EP2.11C | LEVEL 1 ELECTRICAL POWER PLAN - C |
| EP2.11D | LEVEL 1 ELECTRICAL POWER PLAN - D |
| EP2.11E | LEVEL 1 ELECTRICAL POWER PLAN - E |
| EP2.11F | LEVEL 1 ELECTRICAL POWER PLAN - F |
| EP2.11G | LEVEL 1 ELECTRICAL POWER PLAN - G |
| EP2.21A | LEVEL 2 ELECTRICAL POWER PLAN - A |
| EP2.21B | LEVEL 2 ELECTRICAL POWER PLAN - B |
| EP2.21C | LEVEL 2 ELECTRICAL POWER PLAN - C |
| EP2.21D | LEVEL 2 ELECTRICAL POWER PLAN - D |
| E3.01 | ELECTRICAL ENLARGED POWER PLANS |
| E4.01 | ELECTRICAL ONE-LINE DIAGRAM |
| E4.02 | ELECTRICAL ONE-LINE DIAGRAM |
| E5.01 | ELECTRICAL SCHEDULES |
| E5.02 | ELECTRICAL SCHEDULES |
| E6.01 | ELECTRICAL DETAILS |



| REVISION No. | DATE | DESCRIPTION |
|--------------|-----------|-------------|
| 01 | 3/23/2022 | ADDENDUM #1 |



EDINBURG CONSOLIDATED INDEPENDENT SCHOOL DISTRICT
MEMORIAL MS - HVAC IMPROVEMENTS
3105 N DOOLITTLE RD, EDINBURG, TX 78542

DATE: 3/23/2022
DRAWN BY: DBR
CHECKED BY: DBR
PROJECT NUMBER: 218007.002
SHEET TITLE: COVER SHEET
SHEET NUMBER: G0.00

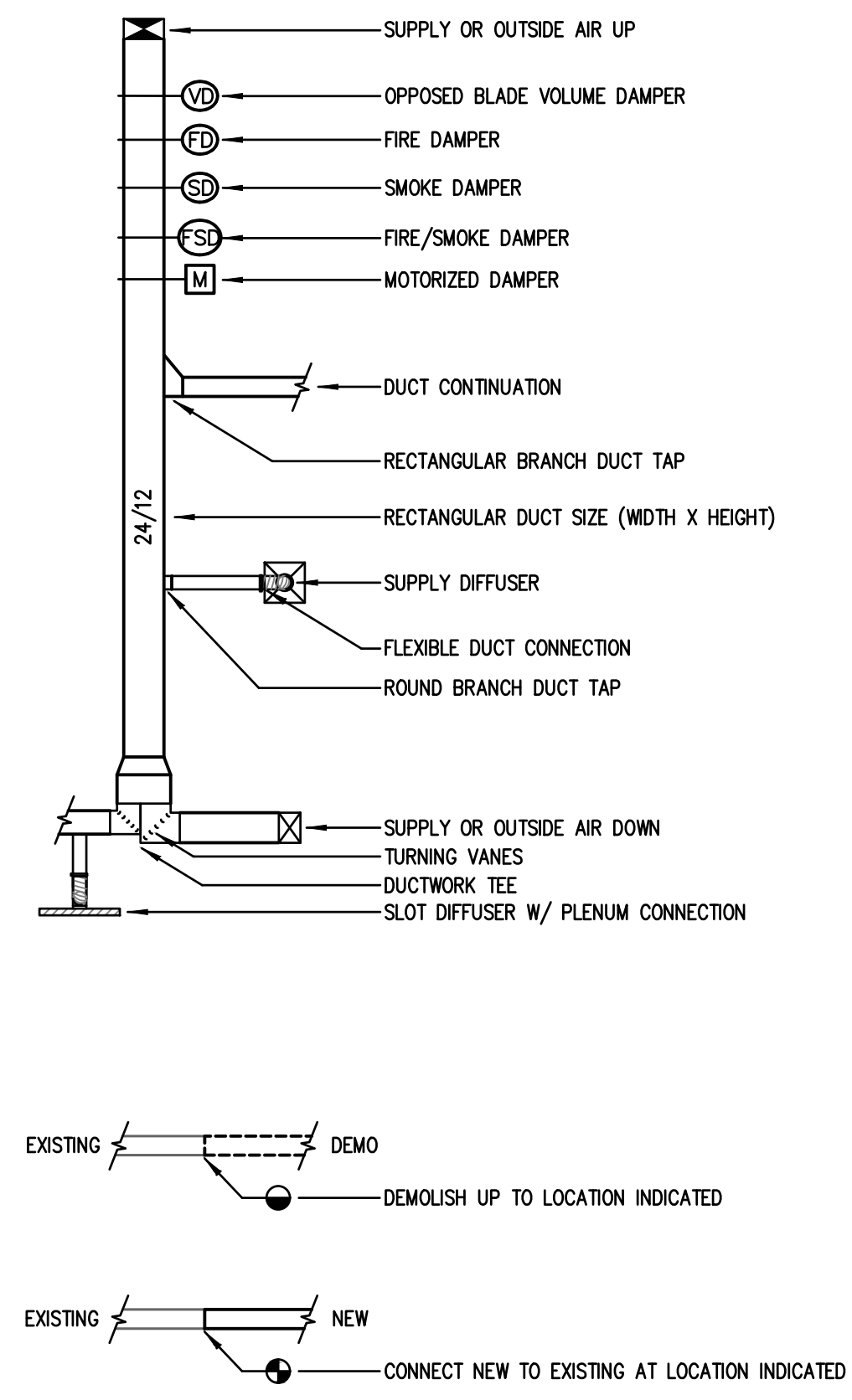
DBR Project Number 218007.002
HA JA JB

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 C:\Users\rtijerina\OneDrive\Documents\04-218007-002 - ECISD - District Wide HVAC Improvements - MMS/Project Files/Drawings/04-218007-002-DETAILS AND SCHEDULES.dwg

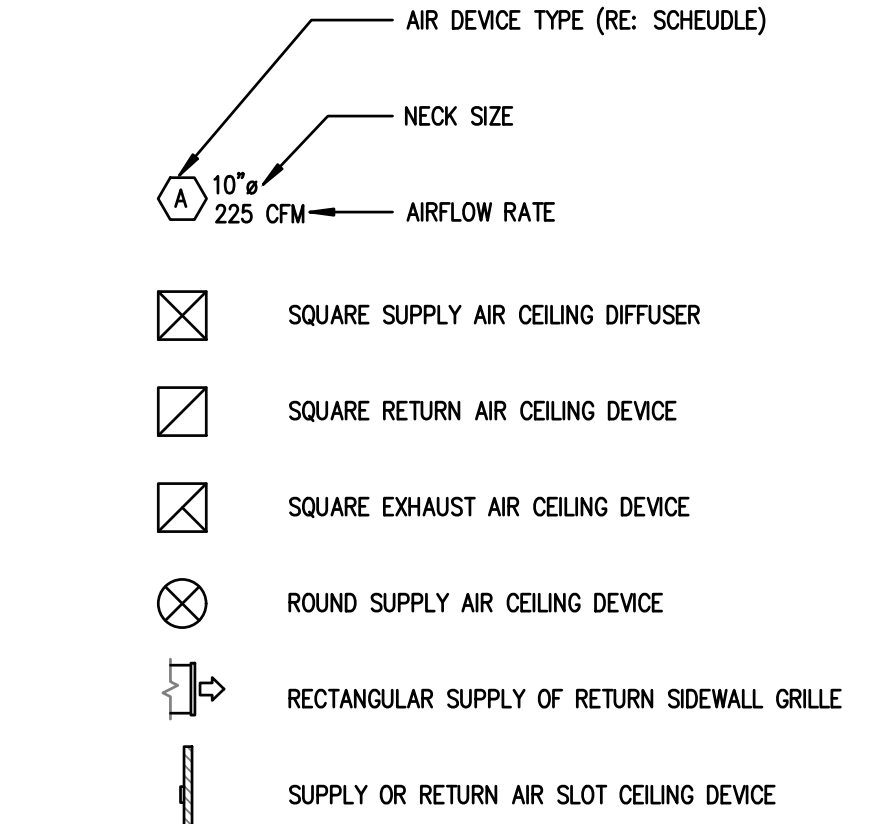
ABBREVIATIONS

Table of abbreviations organized into columns A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z. Includes symbols for air conditioning, electrical, and mechanical components.

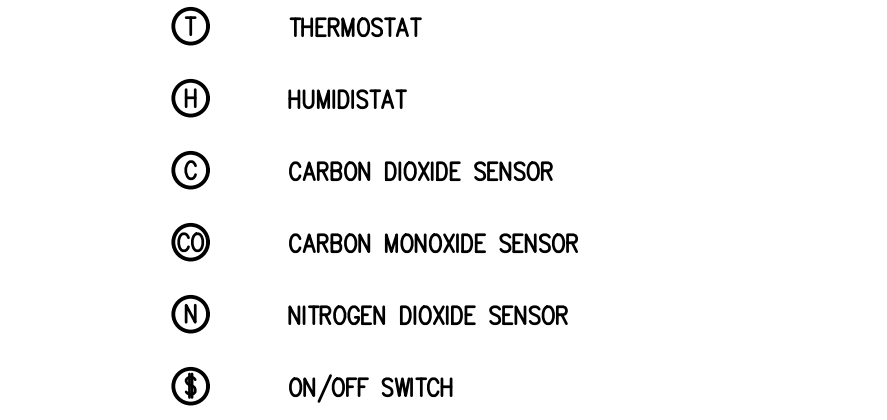
DUCTWORK



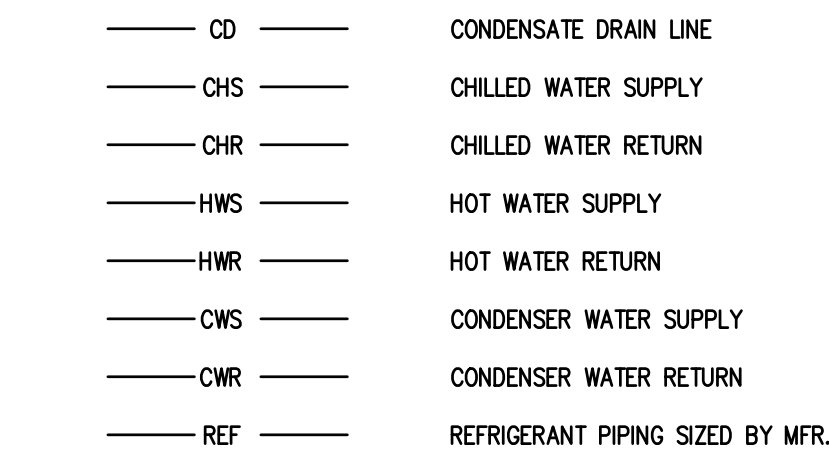
AIR DEVICE TYPES



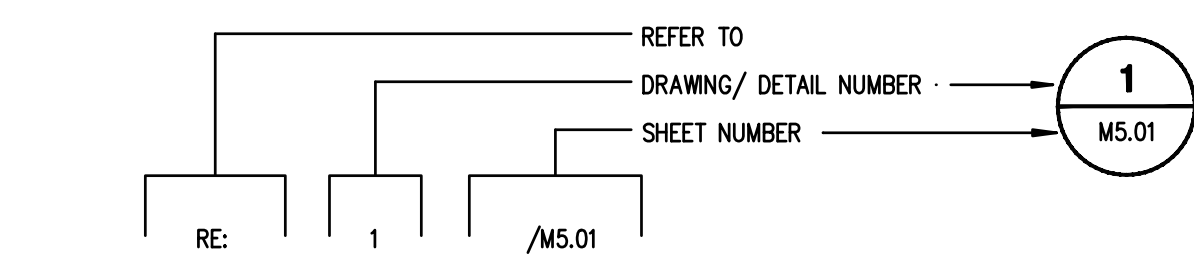
WALL MOUNTED SENSOR TYPES



PIPING TYPES



DRAWING/DETAIL REFERENCE KEY



MECHANICAL GENERAL NOTES

- 1. PIPING AND DUCTWORK SHOWN ON PLANS ARE SCHEMATIC ONLY. COORDINATE WITH OTHER TRADES FOR PIPING AND DUCTWORK ROUTING, OFFSET AND RUN PIPING INSIDE THE STRUCTURE IF REQUIRED. PROVIDE ALL NECESSARY PIPING, DUCTWORK, FITTING, INSULATION, AND OTHER ACCESSORIES IN ORDER TO COMPLETE THE INSTALLATIONS.
2. EXACT LOCATIONS OF VAV TERMINAL UNITS, GRILLES, AND DAMPERS SHALL BE FIELD COORDINATED WITH OTHER TRADES TO AVOID CONFLICTS AND ALLOW ADEQUATE CLEARANCES.
3. EQUIPMENT SIZES, DIMENSIONS, AND REQUIRED CONNECTIONS SHALL BE VERIFIED WITH THE MANUFACTURER DRAWINGS AND CUTSHEETS BEFORE FABRICATING OF DUCTWORK, PIPING, OR POURING OF CONCRETE HOUSEKEEPING FLOORS.
4. SHEET METAL INLET DUCTS TO VAV TERMINAL UNITS SHALL BE SAME SIZE AS THE BOX INLET SIZE. PROVIDE RIGID ROUND DUCT THAT IS ONE SIZE LARGER THAN THE INLET BOX SIZE IF THE DISTANCE BETWEEN THE MAIN DUCT AND THE VAV BOX IS MORE THAN 6'-0".
5. PROVIDE CONICAL SPIN-IN CONNECTOR FOR ALL ROUND DUCT CONNECTIONS TO VAV TERMINAL UNIT INLETS.
6. INSTALL VAV TERMINAL UNITS TO ENSURE ACCESS PANELS ARE NOT BLOCKED. ACCESS FOR SERVICE MUST BE PROVIDED.
7. CONTRACTOR SHALL COORDINATE WITH ELECTRICAL CONTRACTOR FOR ALL ELECTRICAL POWER REQUIREMENTS.
8. DUCT SIZES SHOWN ON PLANS ARE CLEAR INSIDE DIMENSIONS.
9. PROVIDE RECTANGULAR BRANCH DUCT TAP FOR ALL RECTANGULAR DUCT CONNECTIONS TO RECTANGULAR DUCT TRUNKS.
10. ALL MEDIUM AND LOW PRESSURE DUCTWORK AND ASSOCIATED ACCESSORIES SHALL BE CONSTRUCTED TO MEET THE LATEST SMACNA STANDARDS FOR MEDIUM AND LOW PRESSURE DUCTWORK.
11. ALL OUTSIDE AIR, SUPPLY AIR, AND RETURN AIR DUCTWORK AND PLENUMS SHALL BE INSULATED WITH A MINIMUM OF R-8 INSULATION WHERE LOCATED IN UNCONDITIONED SPACES AND SHALL BE INSULATED WITH A MINIMUM OF R-8 INSULATION WHERE LOCATED OUTSIDE THE BUILDING. REFER TO SPECIFICATION 23 31 13 METAL DUCTWORK FOR FURTHER INFORMATION.
12. ALL DUCTWORK SHALL BE CONSTRUCTED TO SEAL CLASS 'A' AS REFERENCED IN SMACNA STANDARDS. ALL NON-WELDED JOINTS AND SEAMS SHALL BE SEALED. THIS INCLUDES BUT IS NOT LIMITED TO TRANSVERSE JOINTS, LONGITUDINAL SEAMS, DUCT WALL PENETRATIONS, SPIN-INS, TAPS, AND OTHER BRANCH CONNECTIONS, ACCESS DOORS, ACCESS PANELS, AND DUCT CONNECTIONS TO EQUIPMENT. OPENINGS FOR ROTATING SHAFTS SHALL ALSO BE SEALED WITH BUSHINGS. REFER TO SPECIFICATION 23 31 13 METAL DUCTWORK FOR FURTHER INFORMATION.
13. ALL EXPOSED DUCTWORK AND PIPING WITH ASSOCIATED ACCESSORIES IN AREAS WITH NO CEILING OR PARTIAL CEILING SHALL BE PAINTED. REFER TO ARCHITECT FOR COLOR.
14. DIVISION 23 MECHANICAL CONTRACTOR SHALL COORDINATE WITH ELECTRICAL CONTRACTOR PRIOR TO ACTUAL INSTALLATION OF TEMPERATURE SENSORS AND HUMIDITY SENSORS.
15. PROVIDE REMOTE SPIN-IN DAMPER OPERATOR FOR SPIN-IN CONNECTIONS AND VOLUME DAMPERS LOCATED OVER GYPSUM CEILINGS.
16. PROVIDE AIRFOIL TYPE TURNING VANES IN ALL 90 DEGREE ELBOWS.
17. COORDINATE LOCATIONS OF FLOOR AND WALL OPENINGS WITH ARCHITECT AND STRUCTURAL ENGINEER.
18. ALL CEILING MOUNTED AND WALL MOUNTED AIR DEVICE FINISHES SHALL MATCH ADJACENT ARCHITECTURAL SURFACE. CONTRACTOR SHALL COORDINATE COLOR WITH ARCHITECT.
19. NO PIPE HANGERS SHALL BE SPACED MORE THAN 10'-0" O.C. COMPLY WITH PIPE SPACING AS SPECIFIED IN THE PIPING SUPPORT SPECIFICATIONS.
20. MECHANICAL CONTRACTOR SHALL COORDINATE EXACT LOCATIONS OF ALL OUTSIDE AIR INTAKES TO MAINTAIN 15 FEET DISTANCE BETWEEN OUTSIDE AIR INTAKES AND ANY EXHAUST AIR OUTLET, FLUES OR PLUMBING VENTS.
21. MECHANICAL CONTRACTOR SHALL COORDINATE WITH PLUMBING CONTRACTOR FOR ALL CONDENSATE DRAIN PIPES CONNECTING TO A SINK DRAIN TAIL PIECE.
22. CONTRACTOR SHALL CUT AND REMOVE PORTIONS OF "HARD CEILING" AS NECESSARY TO INSTALL NEW EQUIPMENT. CONTRACTOR SHALL RE-PAIN ALL HARD CEILING TO MATCH EXISTING CONDITIONS. ANY DAMAGED "LAY-IN" CEILING DAMAGED DURING THE REMOVAL PROCESS SHALL BE REPLACED WITH NEW "CEILING TILES" AT CONTRACTOR'S EXPENSE.

CONTROLS SCHEMATIC SYMBOLS LEGEND

Table of controls schematic symbols legend with symbols and descriptions: AI ANALOG INPUT, AO ANALOG OUTPUT, DI/BI DIGITAL/BINARY INPUT, DO/BO DIGITAL/BINARY OUTPUT, MD ON-OFF MOTORIZED DAMPER, MMD MODULATING TYPE MOTORIZED DAMPER, AFMS AIR FLOW MEASURING STATION, MCV CONTROL VALVE MODULATING TYPE, VFD VARIABLE FREQUENCY DRIVE, CSR CURRENT SENSING RELAY, FRZ FREEZE/STAT, HSL HIGH STATIC LIMIT, SPT STATIC PRESSURE TRANSMITTER, DPT DIFFERENTIAL PRESSURE TRANSDUCER, FM FLOW METER, FS FLOW SWITCH, DAT DISCHARGE AIR TEMPERATURE SENSOR, S WALL SENSOR, T THERMOSTAT, CO2 CARBON DIOXIDE SENSOR, SP SET POINT, S/A SUPPLY AIR, R/A RETURN AIR, O/A OUTSIDE AIR, HC HEATING COIL, CC COOLING COIL, DX DIRECT EXPANSION COOLING COIL, PICCV PRESSURE INDEPENDENT CHARACTERIZED CONTROL VALVE, AFC AIRFLOW CROSS, DPS DIFFERENTIAL PRESSURE SWITCH

MECHANICAL PIPING SYMBOLS

Table of mechanical piping symbols with symbols and descriptions: CWS CONDENSER WATER SUPPLY, CWR CONDENSER WATER RETURN, CHS CHILLED WATER SUPPLY, CHR CHILLED WATER RETURN, CD CONDENSATE DRAIN LINE, CAP ON END OF PIPE, ELBOW UP, ELBOW DOWN, VALVE IN DROP, VALVE IN RISE, DIRECTION OF FLOW, DIRECTION OF SLOPE DOWN, CONCENTRIC REDUCER, ECCENTRIC REDUCER, TEE OUTLET UP, TEE OUTLET DOWN, UNION, FLANGE, PIPE ANCHOR, EXPANSION JOINT, PRESSURE AND TEMPERATURE TAP, FLOW VENTURI, VACUUM BREAKER, VACUUM RELIEF VALVE, BACKFLOW PREVENTOR, THERMOMETER, CIRCULATING PUMP, STRAINER WITH BLOW DOWN VALVE, GLOBE VALVE, BALL VALVE, BALANCING VALVE WITH DIFFERENTIAL PRESSURE TAPS, OS&Y VALVE, CHECK VALVE, BUTTERFLY VALVE, TWO-WAY MODULATING CONTROL VALVE, THREE-WAY MODULATING CONTROL VALVE, SOLENOID VALVE, PRESSURE REDUCING VALVE, GAS REGULATOR, GAS COCK, SPRINKLER FLOOR CONTROL STATION, MANUAL AIR VENT, AUTOMATIC AIR VENT, T&P RELIEF VALVE, PRESSURE GAUGE WITH GAUGE COCK, STEAM TRAP, WATER METER, FLEXIBLE CONNECTION



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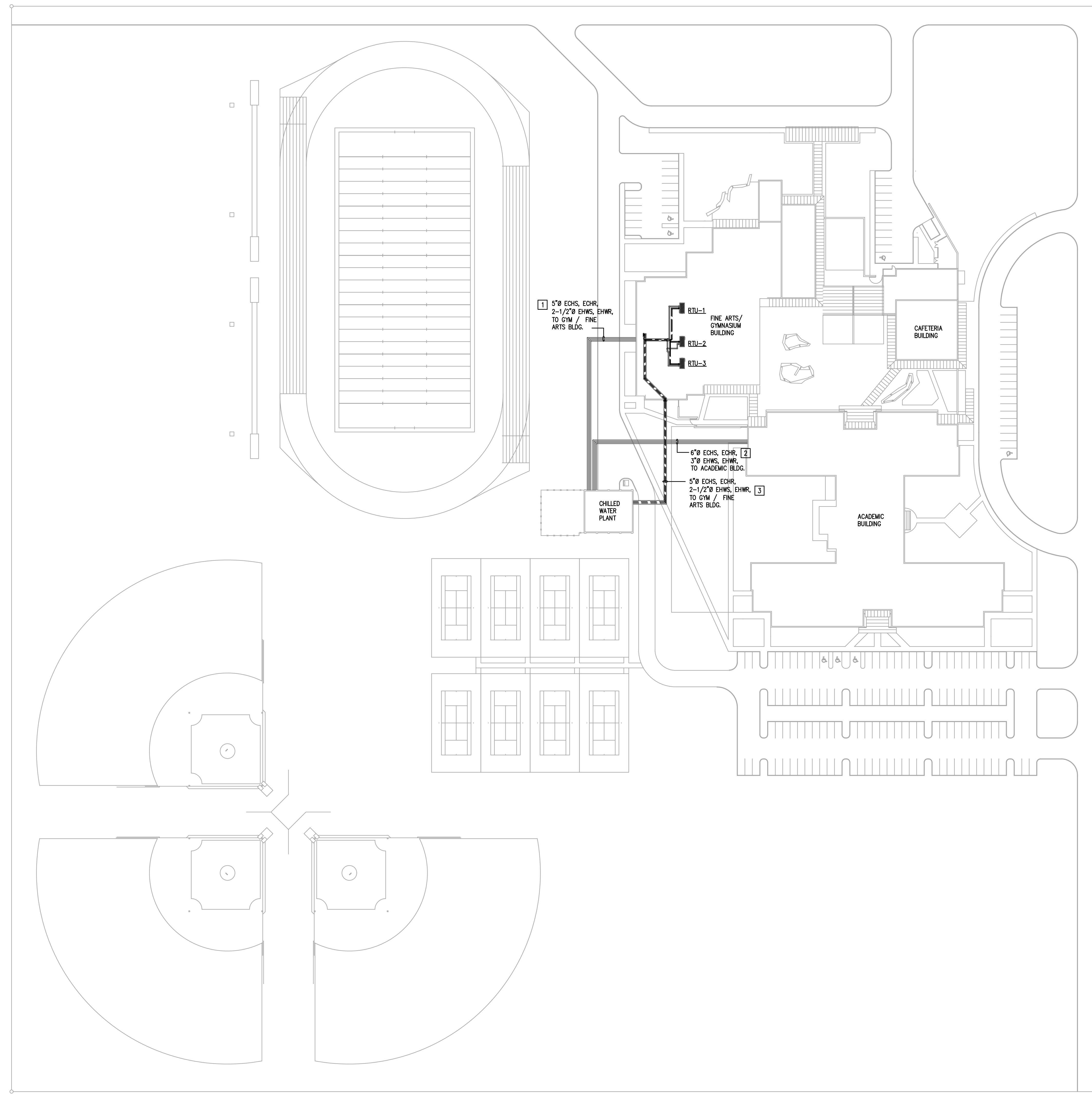


EDINBURG CONSOLIDATED INDEPENDENT SCHOOL DISTRICT MEMORIAL MS - HVAC IMPROVEMENTS 3105 N DOOLITTLE RD, EDINBURG, TX 78542

Table with project information: DATE: 3/23/2022, DRAWN BY: DBR, CHECKED BY: DBR, PROJECT NUMBER: 218007.002, SHEET TITLE: MECHANICAL LEGEND, SHEET NUMBER: MO.01

DBR logo and address: 9990 Richmond Avenue, South Building, Suite 300, Houston, Texas 77042, 713.914.0888 p. 713.914.0888 f. TBPE Firm Registration No. 2234. Includes DBR Project Number 218007.002 and a grid with HA, JA, JB.

Plotted: Mar 23, 2022, 8:10 PM by user: rfrancis - Sheet: 218007.002 - EGISD - District Wide HVAC Improvements - MMS\Project Files\Drawings\MEP-218007-002 SITE.dwg
 C:\Users\rfrancis\OneDrive\Documents\218007-002 - EGISD - District Wide HVAC Improvements - MMS\Project Files\Drawings\MEP-218007-002 SITE.dwg



1 MEP SITE PLAN
 MEP1.01 1"=60'-0"

MECHANICAL GENERAL NOTES:

- A. IT IS THE CONTRACTOR'S RESPONSIBILITY TO HAVE VERIFIED EXISTING JOBSITE CONDITIONS DURING THE BIDDING PERIOD, SO THEY HAVE OBTAINED THE SCOPE OF THE MECHANICAL DEMOLITION WORK INVOLVED AS A RESULT OF MODIFICATIONS TO THE EXISTING STRUCTURE. THE SCOPE OF WORK SHALL INCLUDE MATERIALS AND DUCTWORK CONSISTING OF DEVICES, EQUIPMENT, OR APPARATUS WHICH MAY BE REROUTED, RELOCATED, OR REMOVED EITHER TEMPORARILY OR PERMANENTLY, OR WHICH MUST BE REROUTED OR REMOVED EITHER ACCOMPLISHED. NOT ALL EXISTING CONDITIONS ARE NECESSARILY INDICATED ON DRAWINGS. CONTRACTOR SHALL DEMOLISH ONLY WHAT IS INDICATED TO BE DEMOLISHED ON DRAWINGS.
- B. CONTRACTOR SHALL COORDINATE WITH OWNER FOR ALL EQUIPMENT BEING REMOVED. OWNER SHALL RESERVE THE RIGHT TO CLAIM ALL EQUIPMENT, DUCTWORK, AND AIR DEVICES REMOVED DURING DEMOLITION.
- C. CONTRACTOR TO REPORT ANY DAMAGED EQUIPMENT THAT IS SHOWN AS EXISTING TO REMAIN TO THE OWNER PRIOR TO STARTING ALL WORK. ALL EQUIPMENT FOUND TO BE DAMAGED AT THE TIME OF SUBSTANTIAL COMPLETION, THAT HAD NOT BEEN REPORTED PRIOR TO CONSTRUCTION, CONTRACTOR TO REPAIR AT THEIR OWN COST.
- D. WHERE EQUIPMENT IS SCHEDULED TO BE DEMOLISHED/REMOVED AND REPLACED, THE CONTRACTOR SHALL PREP ALL OPENINGS, CONNECTIONS, FLASHING, PENETRATIONS, DUCT OR PIPING FITTINGS, ETC. TO ACCOMMODATE THE NEW EQUIPMENT. IT IS UNLIKELY THAT NEW EQUIPMENT SPECIFIED IN NEW WORK PHASE WILL DIRECTLY ALIGN WITH EXISTING CONDITIONS.
- E. ALL REMOVED EQUIPMENT WITH ACCESS TO DUCTWORK, SHAFTS, OR PIPING, SHALL HAVE ALL CONNECTIONS TO THESE MATERIAL CLEANED, WHERE THE MATERIALS ARE REUSED, FOR EXAMPLE, EXHAUST SHAFTS THAT ARE SCHEDULED FOR REUSE AND SHALL BE CLEANED TO THE FULLEST EXTENT POSSIBLE. NOTIFY ARCHITECT/ENGINEER TEAM OF ANY DEFICIENCIES FOUND UPON REMOVAL OF HVAC SYSTEM, THAT ARE NOT INDICATED IN THESE PLANS AND SPECIFICATIONS.
- F. EXACT LOCATIONS OF HOT WATER DUCT COILS AND DAMPERS SHALL BE FIELD COORDINATED WITH OTHER TRADES TO AVOID CONFLICTS AND ALLOW ADEQUATE CLEARANCES.
- G. MECHANICAL CONTRACTOR SHALL COORDINATE WITH ELECTRICAL CONTRACTOR FOR ALL ELECTRICAL POWER REQUIREMENTS.
- H. MECHANICAL CONTRACTOR SHALL COORDINATE WITH ELECTRICAL CONTRACTOR PRIOR TO ACTUAL INSTALLATION OF TEMPERATURE AND HUMIDITY SENSORS.
- I. ALL EQUIPMENT, DUCTWORK, CONTROLS AND ACCESSORIES FOUND TO BE ABANDONED SHALL BE REMOVED.
- J. CONTRACTOR SHALL COORDINATE CONSTRUCTION WITH BUILDING FACILITY AS TO NOT DISTURB OPERATING HOURS.
- K. CONTRACTOR SHALL COORDINATE CLEARANCES WITH ALL APPLICABLE TRADES TO ENSURE THAT ALL NECESSARY CODES ARE IN COMPLIANCE.
- L. CONTRACTOR SHALL CUT AND REMOVE PORTIONS OF "HARD CEILING" AS NECESSARY TO INSTALL NEW EQUIPMENT. CONTRACTOR SHALL RE-PAIN ALL HARD CEILING TO MATCH EXISTING CONDITIONS. ANY DAMAGED "LAY-IN" CEILING DAMAGED DURING THE REMOVAL PROCESS SHALL BE REPLACED WITH NEW "CEILING TILES" AT CONTRACTOR'S EXPENSE.
- M. SCOPE OF WORK REQUIRES CONTRACTOR TO CONNECT TO EXISTING CHILLED WATER DISTRIBUTION PIPING. CONTRACTOR SHALL USE ALL MEANS NECESSARY TO VERIFY THE FUNCTION (SUPPLY AND RETURN) OF THE CHILLED WATER AND HOT WATER PIPE PRIOR TO COMMENCEMENT OF WORK. ANY REWORK REQUIRED DUE TO REVERSE CONNECTION OF PIPE SHALL BE PERFORMED AT THE CONTRACTOR'S EXPENSE.
- N. ANY WORK RELATED TO CHILLED WATER SYSTEM SHUT-OFF SHALL BE DONE AFTER HOURS OR WEEKENDS AND SHALL BE COORDINATED WITH OWNER A MINIMUM OF 10 DAYS ADVANCED NOTICE SHALL BE PROVIDED TO OWNER AND ENGINEER.

MECHANICAL DEMOLITION KEY NOTES: 1

1. EXISTING ABANDONED UNDERGROUND CHS/R AND HWS/R TO REMAIN.
2. EXISTING CHS/R LINES TO REMAIN. CONTRACTOR SHALL DRAIN, CAP, AND ABANDON EXISTING HWS/R LINES. COORDINATE EXTENT OF DEMOLITION WITH NEW WORK REQUIREMENTS. FIELD VERIFY EXISTING CONDITIONS.
3. EXISTING CHS/R AND HWS/R LINES RUN OVERHEAD ON STEEL PIPE SUPPORTS. EXISTING CHS/R LINES TO REMAIN. CONTRACTOR SHALL DEMOLISH EXISTING HWS/R LINES. COORDINATE EXTENT OF DEMOLITION WITH NEW WORK REQUIREMENTS. FIELD VERIFY EXISTING CONDITIONS.

LEGEND:

- - - - - EXISTING TO BE DEMOLISHED
- EXISTING TO REMAIN

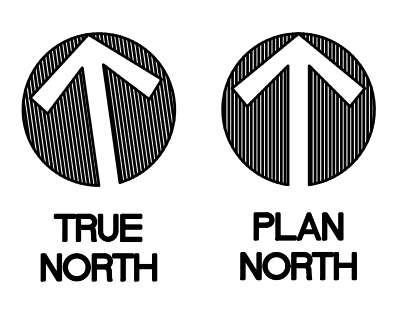
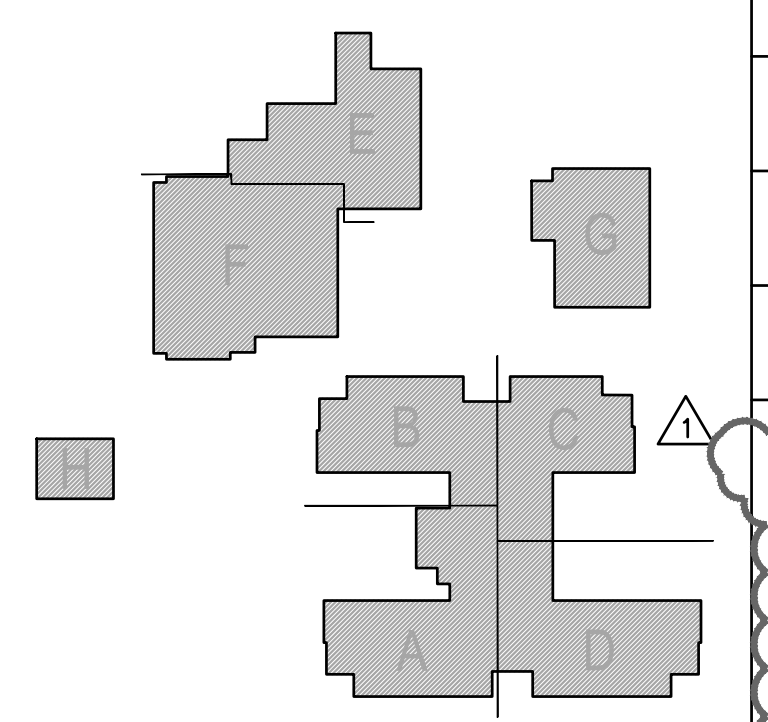


| REVISION | | |
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| No. | DATE | DESCRIPTION |
| 01 | 3/23/2022 | ADDENDUM #1 |
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EDINBURG CONSOLIDATED INDEPENDENT SCHOOL DISTRICT
MEMORIAL MS - HVAC IMPROVEMENTS
 3105 N DOOLITTLE RD, EDINBURG, TX 78542

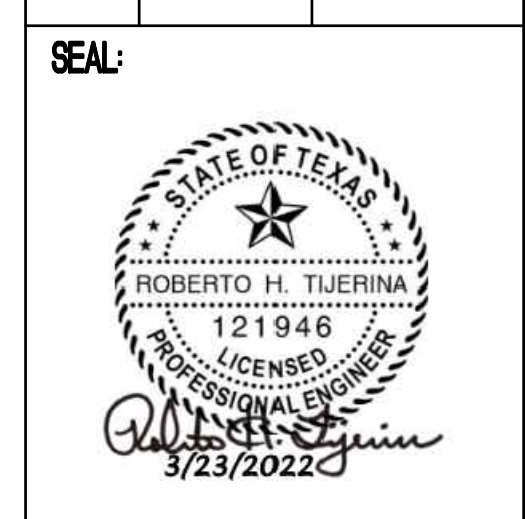
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|-----------------|---------------|
| DATE: | 3/23/2022 |
| DRAWN BY: | DBR |
| CHECKED BY: | DBR |
| PROJECT NUMBER: | 218007.002 |
| SHEET TITLE: | MEP SITE PLAN |



| | | | | |
|--------------------|------------|----|-----|-----|
| DRR Project Number | 218007.002 | | | |
| HA | JA | JB | --- | --- |

SHEET NUMBER:
MEP1.01

| REVISION | No. | DATE | DESCRIPTION |
|----------|-----|-----------|-------------|
| | 01 | 3/23/2022 | ADDENDUM #1 |



EDINBURG CONSOLIDATED INDEPENDENT SCHOOL DISTRICT
MEMORIAL MS - HVAC IMPROVEMENTS
 3105 N DOOLITTLE RD, EDINBURG, TX 78542

| | |
|-----------------|--|
| DATE: | 3/23/2022 |
| DRAWN BY: | DBR |
| CHECKED BY: | DBR |
| PROJECT NUMBER: | 218007.002 |
| SHEET TITLE: | COMPOSITE LEVEL 1 MECHANICAL DEMO HYDRONIC PIPING PLAN |
| SHEET NUMBER: | MD1.11 |

MECHANICAL DEMO GENERAL NOTES:

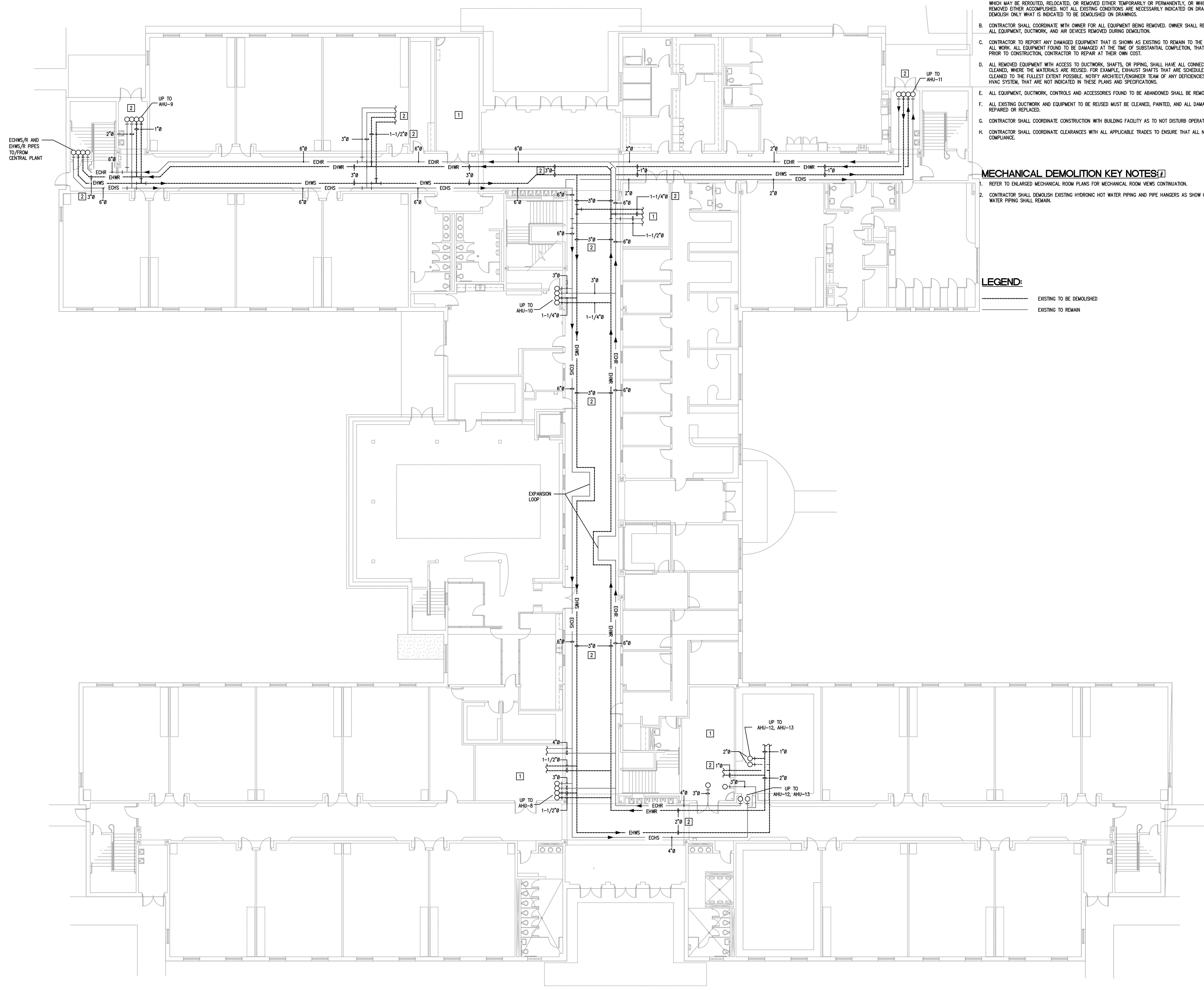
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO HAVE VERIFIED EXISTING JOBSITE CONDITIONS DURING THE BIDDING PERIOD, SO THEY HAVE OBTAINED THE SCOPE OF THE MECHANICAL DEMOLITION WORK INVOLVED AS A RESULT OF MODIFICATIONS TO THE EXISTING STRUCTURE. THE SCOPE OF WORK SHALL INCLUDE MATERIALS AND DUCTWORK CONSISTING OF DEVICES, EQUIPMENT, OR APPARATUS WHICH MAY BE REDROUTED, RELOCATED, OR REMOVED EITHER TEMPORARILY OR PERMANENTLY, OR WHICH MUST BE REDROUTED OR REMOVED EITHER ACCOMPLISHED. NOT ALL EXISTING CONDITIONS ARE NECESSARILY INDICATED ON DRAWINGS, CONTRACTOR SHALL DEMOLISH ONLY WHAT IS INDICATED TO BE DEMOLISHED ON DRAWINGS.
- CONTRACTOR SHALL COORDINATE WITH OWNER FOR ALL EQUIPMENT BEING REMOVED. OWNER SHALL RESERVE THE RIGHT TO CLAIM ALL EQUIPMENT, DUCTWORK, AND AIR DEVICES REMOVED DURING DEMOLITION.
- CONTRACTOR TO REPORT ANY DAMAGED EQUIPMENT THAT IS SHOWN AS EXISTING TO REMAIN TO THE OWNER PRIOR TO STARTING ALL WORK. ALL EQUIPMENT FOUND TO BE DAMAGED AT THE TIME OF SUBSTANTIAL COMPLETION, THAT HAD NOT BEEN REPORTED PRIOR TO CONSTRUCTION, CONTRACTOR TO REPAIR AT THEIR OWN COST.
- ALL REMOVED EQUIPMENT WITH ACCESS TO DUCTWORK, SHAFTS, OR PIPING SHALL HAVE ALL CONNECTIONS TO THESE MATERIAL CLEANED, WHERE THE MATERIALS ARE REUSED FOR EXAMPLE, EXHAUST SHAFTS THAT ARE SCHEDULED FOR REUSE AND SHALL BE CLEANED TO THE FULLEST EXTENT POSSIBLE. NOTIFY ARCHITECT/ENGINEER TEAM OF ANY DEFICIENCIES FOUND UPON REMOVAL OF HVAC SYSTEM, THAT ARE NOT INDICATED IN THESE PLANS AND SPECIFICATIONS.
- ALL EQUIPMENT, DUCTWORK, CONTROLS AND ACCESSORIES FOUND TO BE ABANDONED SHALL BE REMOVED.
- ALL EXISTING DUCTWORK AND EQUIPMENT TO BE REUSED MUST BE CLEANED, PAINTED, AND ALL DAMAGED PARTS MUST BE REPAIRED OR REPLACED.
- CONTRACTOR SHALL COORDINATE CONSTRUCTION WITH BUILDING FACILITY AS TO NOT DISTURB OPERATING HOURS.
- CONTRACTOR SHALL COORDINATE CLEARANCES WITH ALL APPLICABLE TRADES TO ENSURE THAT ALL NECESSARY CODES ARE IN COMPLIANCE.

MECHANICAL DEMOLITION KEY NOTES:

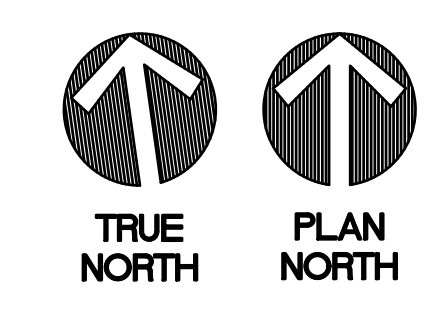
- REFER TO ENLARGED MECHANICAL ROOM PLANS FOR MECHANICAL ROOM VIEWS CONTINUATION.
- CONTRACTOR SHALL DEMOLISH EXISTING HYDRONIC HOT WATER PIPING AND PIPE HANGERS AS SHOWN ON PLANS. CHILLED WATER PIPING SHALL REMAIN.

LEGEND:

- EXISTING TO BE DEMOLISHED
- EXISTING TO REMAIN



**COMPOSITE LEVEL 1 MECHANICAL DEMO
 HYDRONIC PIPING PLAN**
 MD1.11
 3/32" = 1'-0"



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 9990 Richmond Avenue, South Building, Suite 300
 Houston, Texas 77042
 713.914.0888 p 713.914.0886 f
 TBPE Firm Registration No. 2234
 DBR Project Number 218007.002
 HA JA JB

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MECHANICAL DEMO GENERAL NOTES:

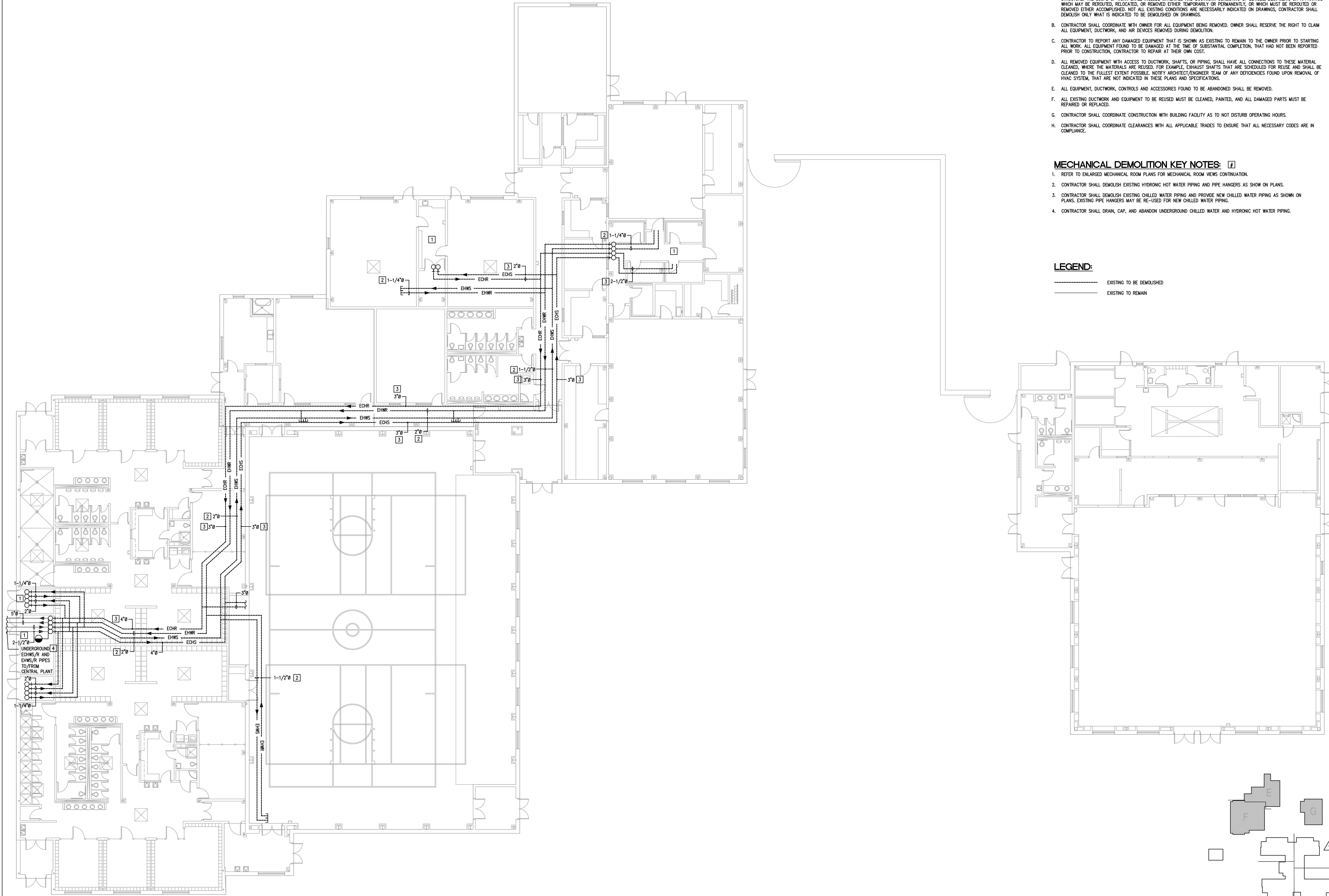
- A. IT IS THE CONTRACTOR'S RESPONSIBILITY TO HAVE VERIFIED EXISTING JOBSITE CONDITIONS DURING THE BIDDING PERIOD, SO THEY HAVE OBTAINED THE SCOPE OF THE MECHANICAL DEMOLITION WORK INVOLVED AS A RESULT OF MODIFICATIONS TO THE EXISTING STRUCTURE. THE SCOPE OF WORK SHALL INCLUDE MATERIALS AND DUCTWORK CONSISTING OF DEVICES, EQUIPMENT, OR APPARATUS WHICH MAY BE REROUTED, RELOCATED, OR REMOVED EITHER TEMPORARILY OR PERMANENTLY, OR WHICH MUST BE REROUTED OR REMOVED EITHER ACCOMPLISHED. NOT ALL EXISTING CONDITIONS ARE NECESSARILY INDICATED ON DRAWINGS, CONTRACTOR SHALL DEMOLISH ONLY WHAT IS INDICATED TO BE DEMOLISHED ON DRAWINGS.
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- D. ALL REMOVED EQUIPMENT WITH ACCESS TO DUCTWORK, SHAFTS, OR PIPING, SHALL HAVE ALL CONNECTIONS TO THESE MATERIAL CLEANED, WHERE THE MATERIALS ARE REUSED, FOR EXAMPLE, EXHAUST SHAFTS THAT ARE SCHEDULED FOR REUSE AND SHALL BE CLEANED TO THE FULLEST EXTENT POSSIBLE. NOTIFY ARCHITECT/ENGINEER TEAM OF ANY DEFICIENCIES FOUND UPON REMOVAL OF HVAC SYSTEM, THAT ARE NOT INDICATED IN THESE PLANS AND SPECIFICATIONS.
- E. ALL EQUIPMENT, DUCTWORK, CONTROLS AND ACCESSORIES FOUND TO BE ABANDONED SHALL BE REMOVED.
- F. ALL EXISTING DUCTWORK AND EQUIPMENT TO BE REUSED MUST BE CLEANED, PAINTED, AND ALL DAMAGED PARTS MUST BE REPAIRED OR REPLACED.
- G. CONTRACTOR SHALL COORDINATE CONSTRUCTION WITH BUILDING FACILITY AS TO NOT DISTURB OPERATING HOURS.
- H. CONTRACTOR SHALL COORDINATE CLEARANCES WITH ALL APPLICABLE TRADES TO ENSURE THAT ALL NECESSARY CODES ARE IN COMPLIANCE.

MECHANICAL DEMOLITION KEY NOTES: [1]

- 1. REFER TO ENLARGED MECHANICAL ROOM PLANS FOR MECHANICAL ROOM VIEWS CONTINUATION.
- 2. CONTRACTOR SHALL DEMOLISH EXISTING HYDRONIC HOT WATER PIPING AND PIPE HANGERS AS SHOWN ON PLANS.
- 3. CONTRACTOR SHALL DEMOLISH EXISTING CHILLED WATER PIPING AND PROVIDE NEW CHILLED WATER PIPING AS SHOWN ON PLANS. EXISTING PIPE HANGERS MAY BE RE-USED FOR NEW CHILLED WATER PIPING.
- 4. CONTRACTOR SHALL DRAIN, CAP, AND ABANDON UNDERGROUND CHILLED WATER AND HYDRONIC HOT WATER PIPING.

LEGEND:

- EXISTING TO BE DEMOLISHED
- EXISTING TO REMAIN



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1 COMPOSITE LEVEL 1 MECHANICAL DEMO HYDRONIC PIPING PLAN
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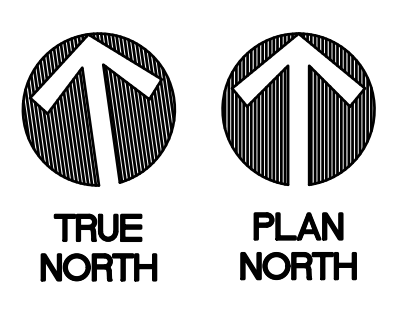
**EDINBURG CONSOLIDATED INDEPENDENT SCHOOL DISTRICT
 MEMORIAL MS - HVAC IMPROVEMENTS**
 3105 N DOOLITTLE RD, EDINBURG, TX 78542

DATE: 3/23/2022
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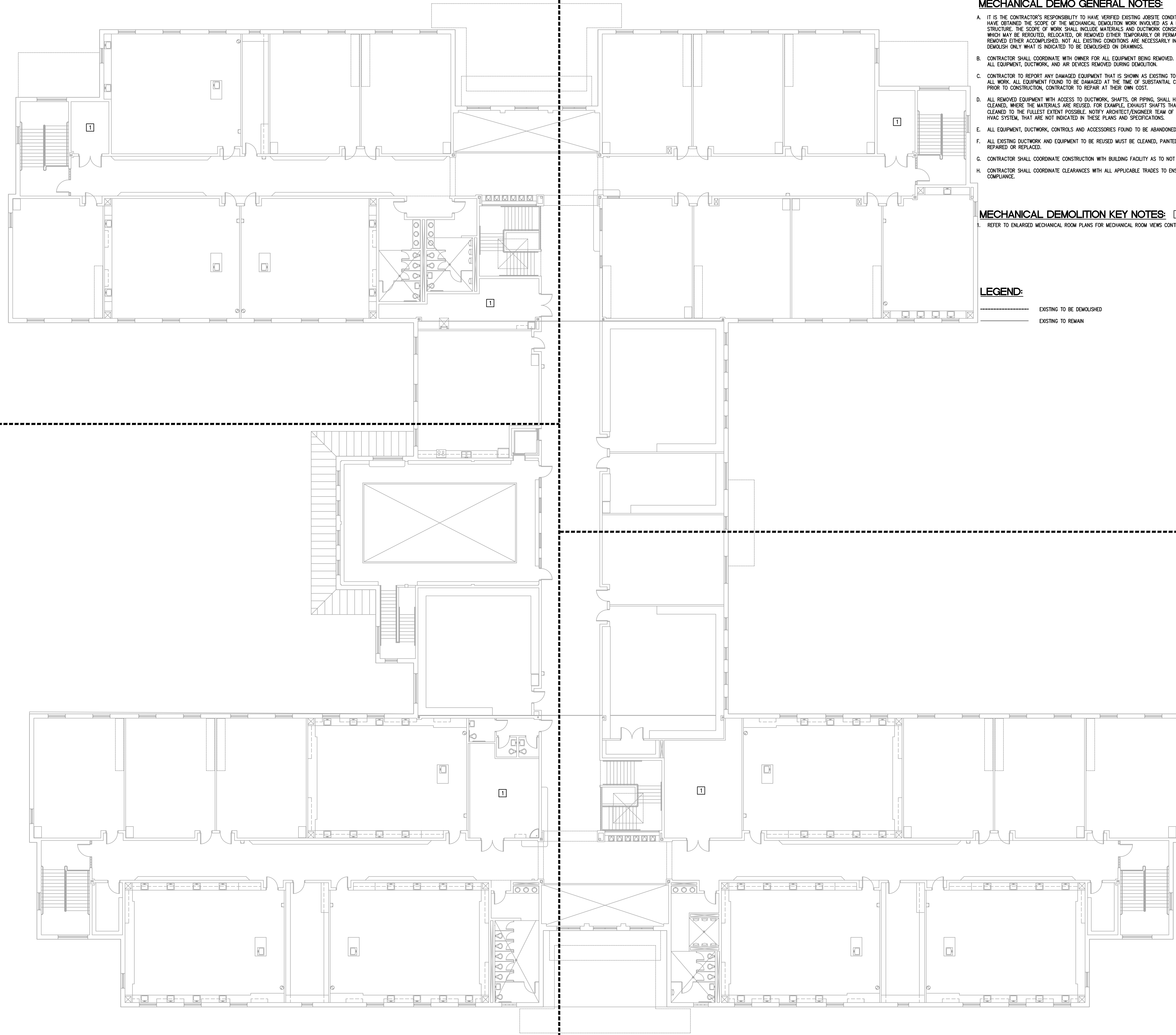
COMPOSITE LEVEL 1 MECHANICAL DEMO HYDRONIC PIPING PLAN

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MECHANICAL DEMO GENERAL NOTES:

- A. IT IS THE CONTRACTOR'S RESPONSIBILITY TO HAVE VERIFIED EXISTING JOBSITE CONDITIONS DURING THE BIDDING PERIOD, SO THEY HAVE OBTAINED THE SCOPE OF THE MECHANICAL DEMOLITION WORK INVOLVED AS A RESULT OF MODIFICATIONS TO THE EXISTING STRUCTURE. THE SCOPE OF WORK SHALL INCLUDE MATERIALS AND DUCTWORK CONSISTING OF DEVICES, EQUIPMENT, OR APPARATUS WHICH MAY BE REROUTED, RELOCATED, OR REMOVED EITHER TEMPORARILY OR PERMANENTLY, OR WHICH MUST BE REROUTED OR REMOVED EITHER ACCOMPLISHED. NOT ALL EXISTING CONDITIONS ARE NECESSARILY INDICATED ON DRAWINGS, CONTRACTOR SHALL DEMOLISH ONLY WHAT IS INDICATED TO BE DEMOLISHED ON DRAWINGS.
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- F. ALL EXISTING DUCTWORK AND EQUIPMENT TO BE REUSED MUST BE CLEANED, PAINTED, AND ALL DAMAGED PARTS MUST BE REPAIRED OR REPLACED.
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- H. CONTRACTOR SHALL COORDINATE CLEARANCES WITH ALL APPLICABLE TRADES TO ENSURE THAT ALL NECESSARY CODES ARE IN COMPLIANCE.

MECHANICAL DEMOLITION KEY NOTES:

- 1. REFER TO ENLARGED MECHANICAL ROOM PLANS FOR MECHANICAL ROOM VIEWS CONTINUATION.

LEGEND:

- EXISTING TO BE DEMOLISHED
- _____ EXISTING TO REMAIN

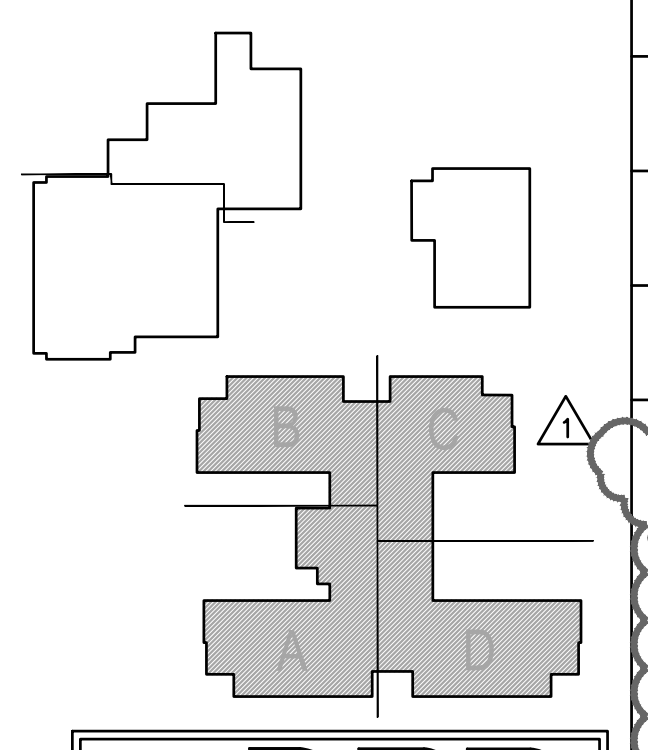


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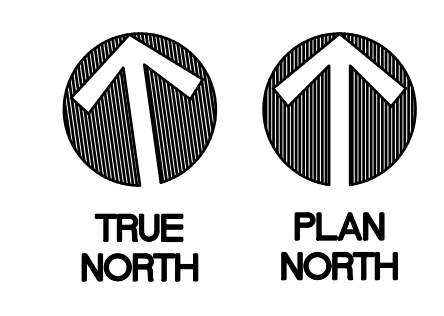
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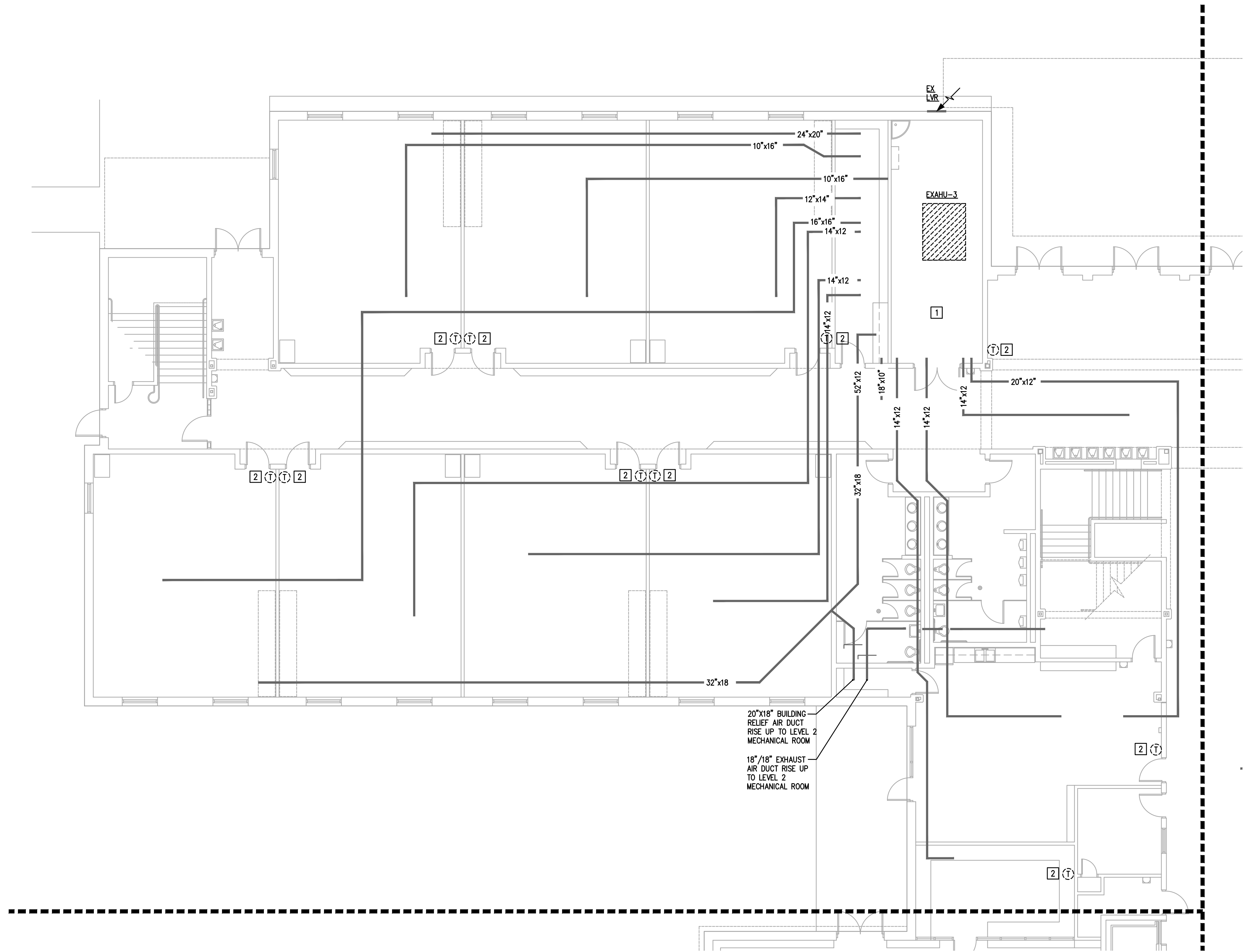


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MD1.21
COMPOSITE LEVEL 2 MECHANICAL DEMO
HYDRONIC PIPING PLAN
 3/32" = 1'-0"



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1 LEVEL 1 MECHANICAL DEMO PLAN - B
 MD2.11B 1/8" = 1'-0"

MECHANICAL DEMO GENERAL NOTES:

- A. IT IS THE CONTRACTOR'S RESPONSIBILITY TO HAVE VERIFIED EXISTING JOBSITE CONDITIONS DURING THE BIDDING PERIOD, SO THEY HAVE OBTAINED THE SCOPE OF THE MECHANICAL DEMOLITION WORK INVOLVED AS A RESULT OF MODIFICATIONS TO THE EXISTING STRUCTURE. THE SCOPE OF WORK SHALL INCLUDE MATERIALS AND DUCTWORK CONSISTING OF DEVICES, EQUIPMENT, OR APPARATUS WHICH MAY BE REROUTED, RELOCATED, OR REMOVED EITHER TEMPORARILY OR PERMANENTLY, OR WHICH MUST BE REROUTED OR REMOVED EITHER ACCOMPLISHED. NOT ALL EXISTING CONDITIONS ARE NECESSARILY INDICATED ON DRAWINGS, CONTRACTOR SHALL DEMOLISH ONLY WHAT IS INDICATED TO BE DEMOLISHED ON DRAWINGS.
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- D. ALL REMOVED EQUIPMENT WITH ACCESS TO DUCTWORK, SHAFTS, OR PIPING, SHALL HAVE ALL CONNECTIONS TO THESE MATERIAL CLEANED, WHERE THE MATERIALS ARE REUSED. FOR EXAMPLE, EXHAUST SHAFTS THAT ARE SCHEDULED FOR REUSE AND SHALL BE CLEANED TO THE FULLEST EXTENT POSSIBLE. NOTIFY ARCHITECT/ENGINEER TEAM OF ANY DEFICIENCIES FOUND UPON REMOVAL OF HVAC SYSTEM, THAT ARE NOT INDICATED IN THESE PLANS AND SPECIFICATIONS.
- E. ALL EQUIPMENT, DUCTWORK, CONTROLS AND ACCESSORIES FOUND TO BE ABANDONED SHALL BE REMOVED.
- F. ALL EXISTING DUCTWORK AND EQUIPMENT TO BE REUSED MUST BE CLEANED, PAINTED, AND ALL DAMAGED PARTS MUST BE REPAIRED OR REPLACED.
- G. CONTRACTOR SHALL COORDINATE CONSTRUCTION WITH BUILDING FACILITY AS TO NOT DISTURB OPERATING HOURS.
- H. CONTRACTOR SHALL COORDINATE CLEARANCES WITH ALL APPLICABLE TRADES TO ENSURE THAT ALL NECESSARY CODES ARE IN COMPLIANCE.

MECHANICAL DEMOLITION KEY NOTES:

- 1. REFER TO ENLARGED MECHANICAL ROOM PLANS FOR MECHANICAL ROOM VIEWS CONTINUATION.
- 2. EXISTING T-STAT AND MECHANATORS SHALL BE REMOVED. EXISTING J-BOX SHALL REMAIN FOR RE-USE.
- 3. CONTRACTOR SHALL DEMOLISH EXISTING CONDENSING UNIT AND ASSOCIATED REFRIGERANT PIPING BETWEEN CONDENSING UNIT AND AHU. PIPING IN WALLS SHALL BE CAPPED AND ABANDONED. HOUSE KEEPING PAD SHALL BE REMOVED.

LEGEND:

- EXISTING TO BE DEMOLISHED
- ===== EXISTING TO REMAIN



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EDINBURG CONSOLIDATED INDEPENDENT SCHOOL DISTRICT
 MEMORIAL MS - HVAC IMPROVEMENTS
 3105 N DOOLITTLE RD, EDINBURG, TX 78542

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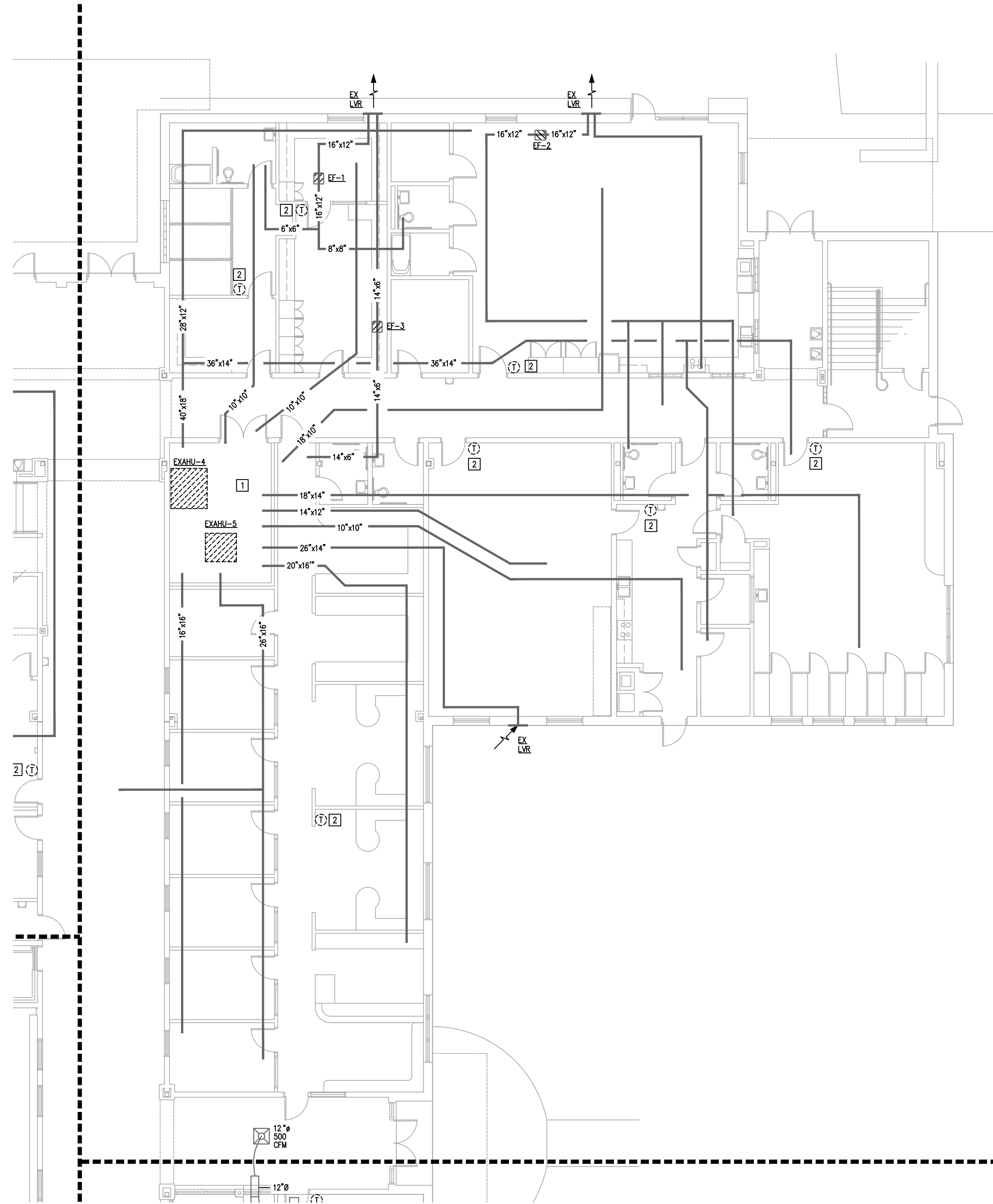
**LEVEL 1
 MECHANICAL DEMO
 PLAN - B**

SHEET NUMBER:

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1 LEVEL 1 MECHANICAL DEMO PLAN - C
 MD2.11C 1/8" = 1'-0"

MECHANICAL DEMO GENERAL NOTES:

- A. IT IS THE CONTRACTOR'S RESPONSIBILITY TO HAVE VERIFIED EXISTING JOB SITE CONDITIONS DURING THE BIDDING PERIOD, SO THEY HAVE OBTAINED THE SCOPE OF THE MECHANICAL DEMOLITION WORK INVOLVED AS A RESULT OF MODIFICATIONS TO THE EXISTING STRUCTURE. THE SCOPE OF WORK SHALL INCLUDE MATERIALS AND DUCTWORK CONSISTING OF DEVICES, EQUIPMENT, OR APPARATUS WHICH MAY BE REROUTED, RELOCATED, OR REMOVED EITHER TEMPORARILY OR PERMANENTLY, OR WHICH MUST BE REROUTED OR REMOVED EITHER ACCOMPLISHED. NOT ALL EXISTING CONDITIONS ARE NECESSARILY INDICATED ON DRAWINGS, CONTRACTOR SHALL DEMOLISH ONLY WHAT IS INDICATED TO BE DEMOLISHED ON DRAWINGS.
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- D. ALL REMOVED EQUIPMENT WITH ACCESS TO DUCTWORK, SHAFTS, OR PIPING, SHALL HAVE ALL CONNECTIONS TO THESE MATERIAL CLEANED, WHERE THE MATERIALS ARE REUSED. FOR EXAMPLE, EXHAUST SHAFTS THAT ARE SCHEDULED FOR REUSE AND SHALL BE CLEANED TO THE FULLEST EXTENT POSSIBLE. NOTIFY ARCHITECT/ENGINEER TEAM OF ANY DEFICIENCIES FOUND UPON REMOVAL OF HVAC SYSTEM, THAT ARE NOT INDICATED IN THESE PLANS AND SPECIFICATIONS.
- E. ALL EQUIPMENT, DUCTWORK, CONTROLS AND ACCESSORIES FOUND TO BE ABANDONED SHALL BE REMOVED.
- F. ALL EXISTING DUCTWORK AND EQUIPMENT TO BE REUSED MUST BE CLEANED, PAINTED, AND ALL DAMAGED PARTS MUST BE REPAIRED OR REPLACED.
- G. CONTRACTOR SHALL COORDINATE CONSTRUCTION WITH BUILDING FACILITY AS TO NOT DISTURB OPERATING HOURS.
- H. CONTRACTOR SHALL COORDINATE CLEARANCES WITH ALL APPLICABLE TRADES TO ENSURE THAT ALL NECESSARY CODES ARE IN COMPLIANCE.

MECHANICAL DEMOLITION KEY NOTES:

1. REFER TO ENLARGED MECHANICAL ROOM PLANS FOR MECHANICAL ROOM VIEWS CONTINUATION.
2. EXISTING T-STAY AND CONDUCTORS SHALL BE REMOVED. EXISTING J-BOX SHALL REMAIN FOR RE-USE.
3. CONTRACTOR SHALL DEMOLISH EXISTING CONDENSING UNIT AND ASSOCIATED REFRIGERANT PIPING BETWEEN CONDENSING UNIT AND AHU. PIPING IN WALLS SHALL BE CAPPED AND ABANDONED. HOUSE KEEPING PAD SHALL BE REMOVED.

LEGEND:

- EXISTING TO BE DEMOLISHED
- ===== EXISTING TO REMAIN



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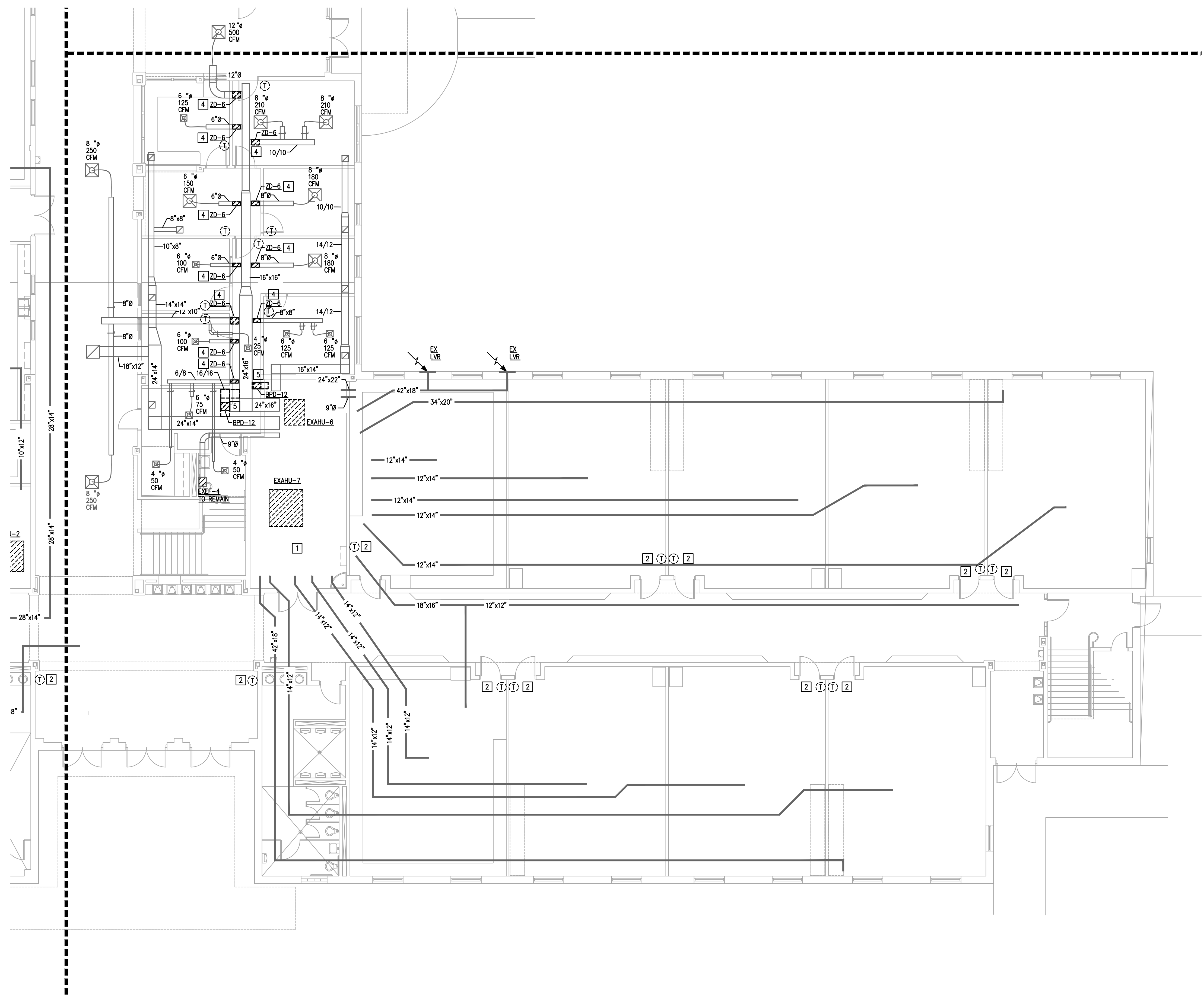
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LEVEL 1
MECHANICAL DEMO
PLAN - C

SHEET NUMBER:

MD2.11C

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| DRR Project Number | 218007.002 | | | |
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1 LEVEL 1 MECHANICAL DEMO PLAN - D
 MD2.110 1/8" = 1'-0"

MECHANICAL DEMO GENERAL NOTES:

- A. IT IS THE CONTRACTOR'S RESPONSIBILITY TO HAVE VERIFIED EXISTING JOBSITE CONDITIONS DURING THE BIDDING PERIOD, SO THEY HAVE OBTAINED THE SCOPE OF THE MECHANICAL DEMOLITION WORK INVOLVED AS A RESULT OF MODIFICATIONS TO THE EXISTING STRUCTURE. THE SCOPE OF WORK SHALL INCLUDE MATERIALS AND DUCTWORK CONSISTING OF DEVICES, EQUIPMENT, OR APPARATUS WHICH MAY BE REROUTED, RELOCATED, OR REMOVED EITHER TEMPORARILY OR PERMANENTLY, OR WHICH MUST BE REROUTED OR REMOVED EITHER ACCOMPISHED. NOT ALL EXISTING CONDITIONS ARE NECESSARILY INDICATED ON DRAWINGS, CONTRACTOR SHALL DEMOLISH ONLY WHAT IS INDICATED TO BE DEMOLISHED ON DRAWINGS.
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MECHANICAL DEMOLITION KEY NOTES: 1

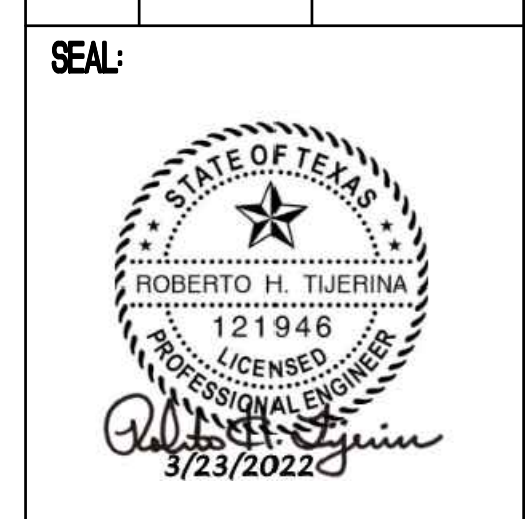
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- 2. EXISTING T-STAT AND CONDUCTORS SHALL BE REMOVED. EXISTING J-BOX SHALL REMAIN FOR RE-USE.
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LEGEND:

- EXISTING TO BE DEMOLISHED
- EXISTING TO REMAIN



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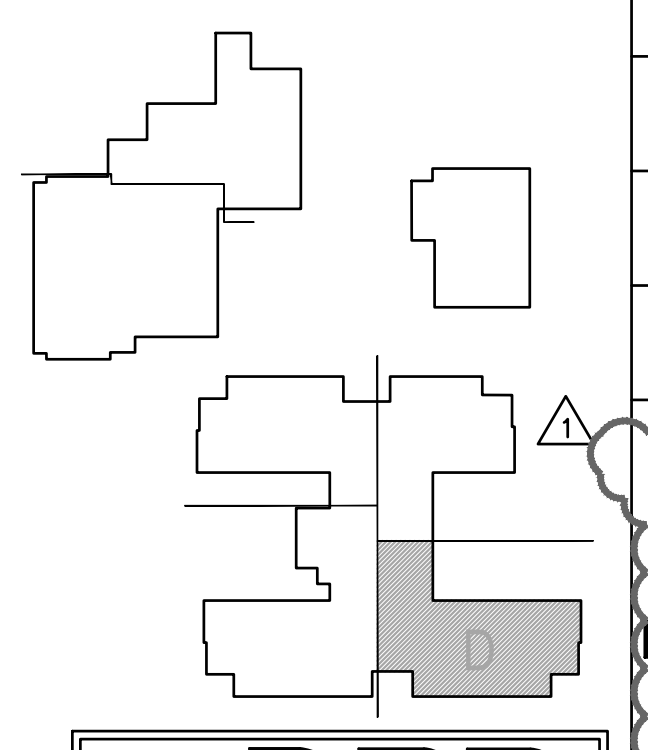


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LEVEL 1 MECHANICAL DEMO PLAN - D

SHEET NUMBER: **MD2.11D**



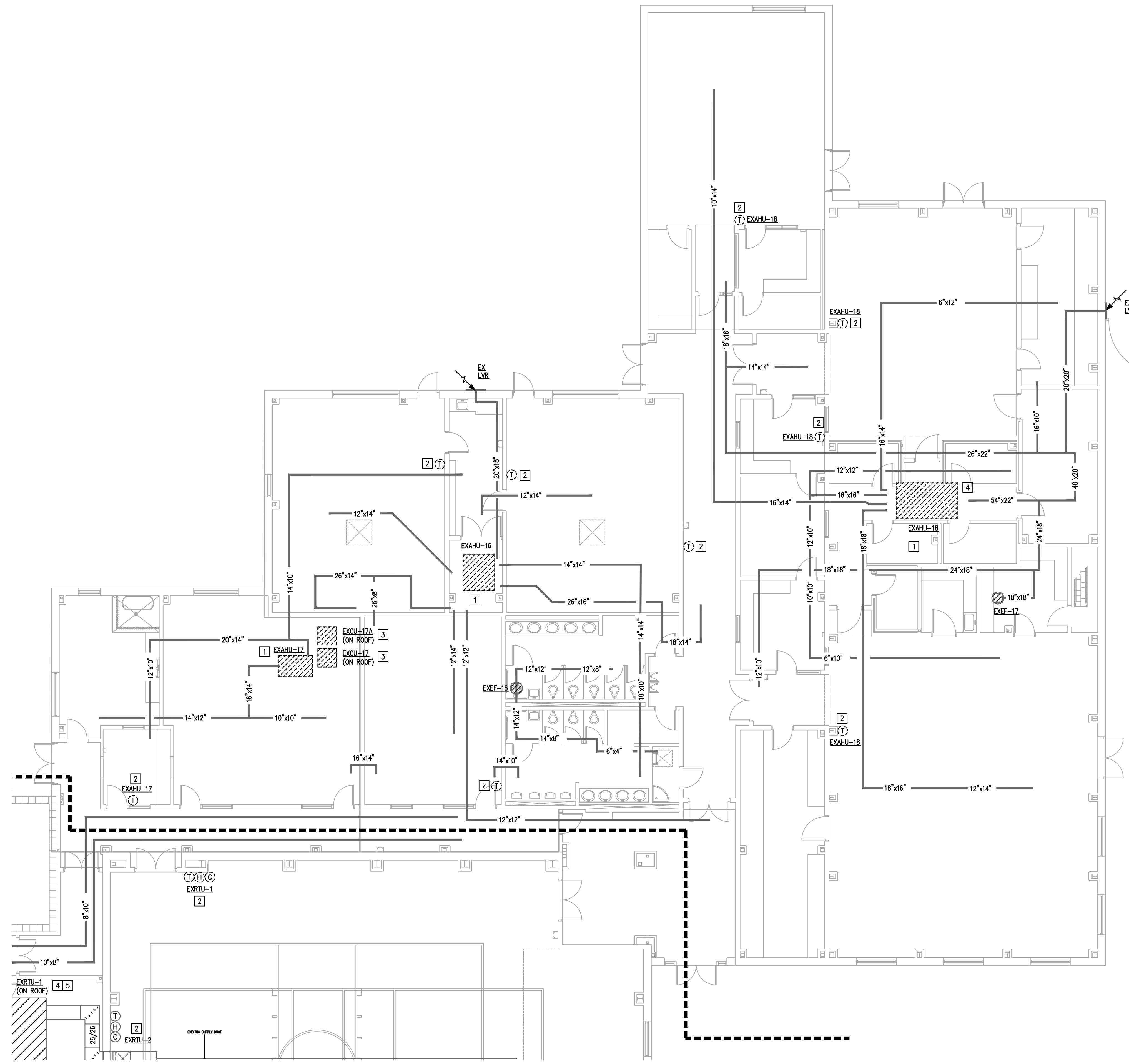
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DRR Project Number: 218007.002

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1 LEVEL 1 MECHANICAL DEMO PLAN - E
 MD2.12E 1/8" = 1'-0"

MECHANICAL DEMO GENERAL NOTES:

- A. IT IS THE CONTRACTOR'S RESPONSIBILITY TO HAVE VERIFIED EXISTING JOBSITE CONDITIONS DURING THE BIDDING PERIOD, SO THEY HAVE OBTAINED THE SCOPE OF THE MECHANICAL DEMOLITION WORK INVOLVED AS A RESULT OF MODIFICATIONS TO THE EXISTING STRUCTURE. THE SCOPE OF WORK SHALL INCLUDE MATERIALS AND DUCTWORK CONSISTING OF DEVICES, EQUIPMENT, OR APPARATUS WHICH MAY BE REROUTED, RELOCATED, OR REMOVED EITHER TEMPORARILY OR PERMANENTLY OR WHICH MUST BE REROUTED OR REMOVED EITHER ACCOMPLISHED. NOT ALL EXISTING CONDITIONS ARE NECESSARILY INDICATED ON DRAWINGS, CONTRACTOR SHALL DEMOLISH ONLY WHAT IS INDICATED TO BE DEMOLISHED ON DRAWINGS.
- B. CONTRACTOR SHALL COORDINATE WITH OWNER FOR ALL EQUIPMENT BEING REMOVED. OWNER SHALL RESERVE THE RIGHT TO CLAIM ALL EQUIPMENT, DUCTWORK, AND AIR DEVICES REMOVED DURING DEMOLITION.
- C. CONTRACTOR TO REPORT ANY DAMAGED EQUIPMENT THAT IS SHOWN AS EXISTING TO REMAIN TO THE OWNER PRIOR TO STARTING ALL WORK. ALL EQUIPMENT FOUND TO BE DAMAGED AT THE TIME OF SUBSTANTIAL COMPLETION, THAT HAD NOT BEEN REPORTED PRIOR TO CONSTRUCTION, CONTRACTOR TO REPAIR AT THEIR OWN COST.
- D. ALL REMOVED EQUIPMENT WITH ACCESS TO DUCTWORK, SHAFTS, OR PIPING, SHALL HAVE ALL CONNECTIONS TO THESE MATERIAL CLEANED, WHERE THE MATERIALS ARE REUSED. FOR EXAMPLE, EXHAUST SHAFTS THAT ARE SCHEDULED FOR REUSE AND SHALL BE CLEANED TO THE FULLEST EXTENT POSSIBLE. NOTIFY ARCHITECT/ENGINEER TEAM OF ANY DEFICIENCIES FOUND UPON REMOVAL OF HVAC SYSTEM, THAT ARE NOT INDICATED IN THESE PLANS AND SPECIFICATIONS.
- E. ALL EQUIPMENT, DUCTWORK, CONTROLS AND ACCESSORIES FOUND TO BE ABANDONED SHALL BE REMOVED.
- F. ALL EXISTING DUCTWORK AND EQUIPMENT TO BE REUSED MUST BE CLEANED, PAINTED, AND ALL DAMAGED PARTS MUST BE REPAIRED OR REPLACED.
- G. CONTRACTOR SHALL COORDINATE CONSTRUCTION WITH BUILDING FACILITY AS TO NOT DISTURB OPERATING HOURS.
- H. CONTRACTOR SHALL COORDINATE CLEARANCES WITH ALL APPLICABLE TRADES TO ENSURE THAT ALL NECESSARY CODES ARE IN COMPLIANCE.

MECHANICAL DEMOLITION KEY NOTES: [1]

1. REFER TO ENLARGED MECHANICAL ROOM PLANS FOR MECHANICAL ROOM VIEWS CONTINUATION.
2. EXISTING T-STAY AND CONDUCTORS SHALL BE REMOVED. EXISTING J-BOX SHALL REMAIN FOR RE-USE.
3. EQUIPMENT LOCATED ON ROOF.
4. EQUIPMENT LOCATED ON MEZZANINE.

LEGEND:

- EXISTING TO BE DEMOLISHED
- EXISTING TO REMAIN



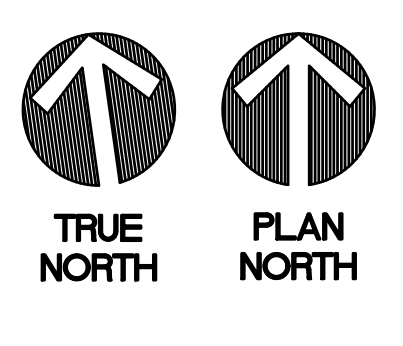
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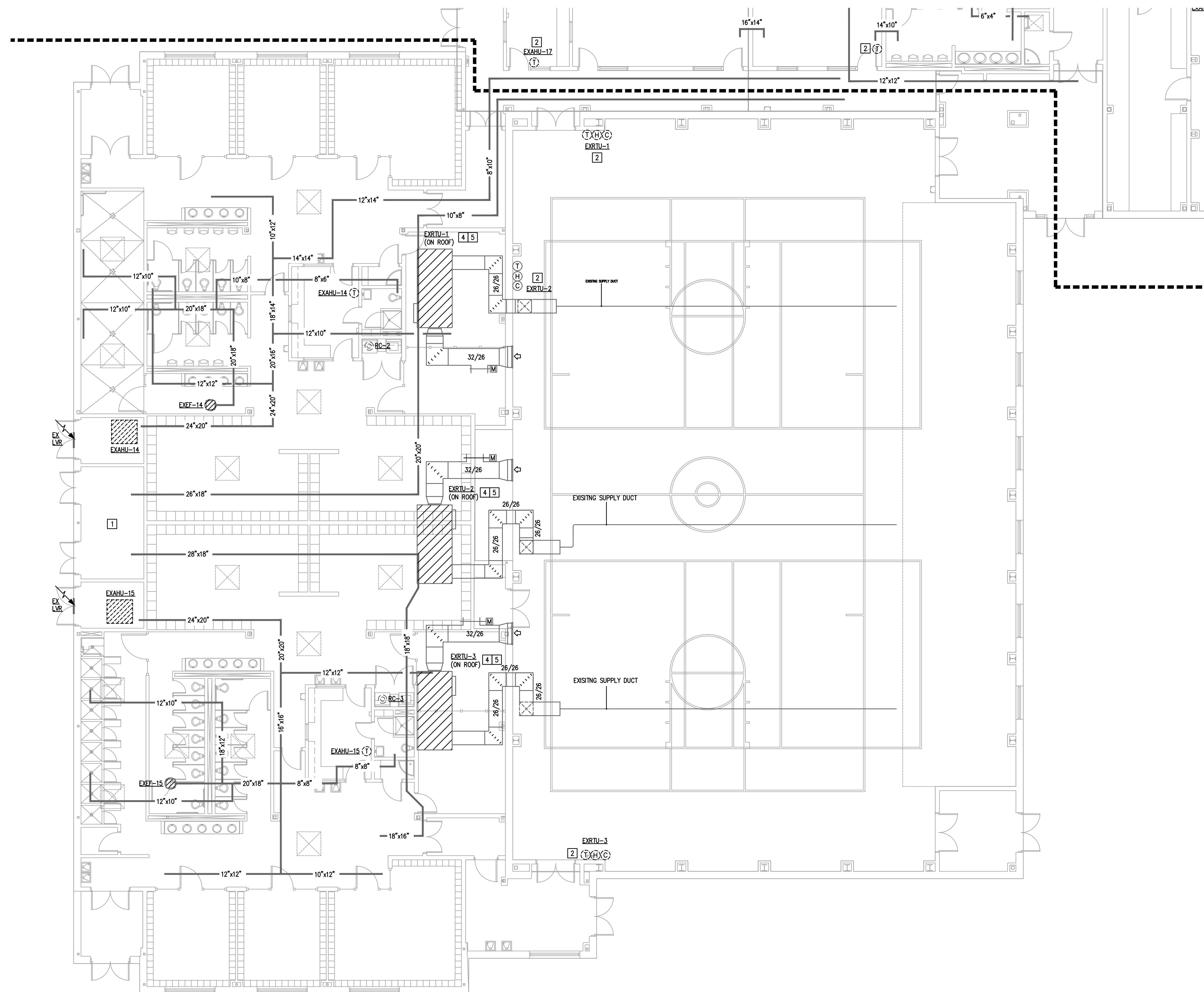
EDINBURG CONSOLIDATED INDEPENDENT SCHOOL DISTRICT
MEMORIAL MS - HVAC IMPROVEMENTS
 3105 N DOOLITTLE RD, EDINBURG, TX 78542

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| DATE: | 3/23/2022 |
| DRAWN BY: | DBR |
| CHECKED BY: | DBR |
| PROJECT NUMBER: | 218007.002 |
| SHEET TITLE: | LEVEL 1 MECHANICAL DEMO PLAN - E |

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1 LEVEL 1 MECHANICAL DEMO PLAN - F
 MD2.12F 1/8" = 1'-0"

MECHANICAL DEMO GENERAL NOTES:

- A. IT IS THE CONTRACTOR'S RESPONSIBILITY TO HAVE VERIFIED EXISTING JOB SITE CONDITIONS DURING THE BIDDING PERIOD, SO THEY HAVE OBTAINED THE SCOPE OF THE MECHANICAL DEMOLITION WORK INVOLVED AS A RESULT OF MODIFICATIONS TO THE EXISTING STRUCTURE. THE SCOPE OF WORK SHALL INCLUDE MATERIALS AND DUCTWORK CONSISTING OF DEVICES, EQUIPMENT, OR APPARATUS WHICH MAY BE RELOCATED, OR REMOVED EITHER TEMPORARILY OR PERMANENTLY, OR WHICH MUST BE REROUTED OR REMOVED EITHER ACCOMPLISHED. NOT ALL EXISTING CONDITIONS ARE NECESSARILY INDICATED ON DRAWINGS, CONTRACTOR SHALL DEMOLISH ONLY WHAT IS INDICATED TO BE DEMOLISHED ON DRAWINGS.
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- C. CONTRACTOR TO REPORT ANY DAMAGED EQUIPMENT THAT IS SHOWN AS EXISTING TO REMAIN TO THE OWNER PRIOR TO STARTING ALL WORK. ALL EQUIPMENT FOUND TO BE DAMAGED AT THE TIME OF SUBSTANTIAL COMPLETION, THAT HAD NOT BEEN REPORTED PRIOR TO CONSTRUCTION, CONTRACTOR TO REPAIR AT THEIR OWN COST.
- D. ALL REMOVED EQUIPMENT WITH ACCESS TO DUCTWORK, SHAFTS, OR PIPING, SHALL HAVE ALL CONNECTIONS TO THESE MATERIAL CLEANED, WHERE THE MATERIALS ARE REUSED, FOR EXAMPLE, EXHAUST SHAFTS THAT ARE SCHEDULED FOR REUSE AND SHALL BE CLEANED TO THE FULLEST EXTENT POSSIBLE. NOTIFY ARCHITECT/ENGINEER TEAM OF ANY DEFICIENCIES FOUND UPON REMOVAL OF HVAC SYSTEM, THAT ARE NOT INDICATED IN THESE PLANS AND SPECIFICATIONS.
- E. ALL EQUIPMENT, DUCTWORK, CONTROLS AND ACCESSORIES FOUND TO BE ABANDONED SHALL BE REMOVED.
- F. ALL EXISTING DUCTWORK AND EQUIPMENT TO BE REUSED MUST BE CLEANED, PAINTED, AND ALL DAMAGED PARTS MUST BE REPAIRED OR REPLACED.
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MECHANICAL DEMOLITION KEY NOTES: [1]

- 1. REFER TO ENLARGED MECHANICAL ROOM PLANS FOR MECHANICAL ROOM VIEWS CONTINUATION.
- 2. EXISTING T-STAY AND CONDUCTORS SHALL BE REMOVED. EXISTING J-BOX SHALL REMAIN FOR RE-USE.
- 3. CONTRACTOR SHALL DEMOLISH EXISTING CONDENSING UNIT AND ASSOCIATED REFRIGERANT PIPING BETWEEN CONDENSING UNIT AND AHU. PIPING IN WALLS SHALL BE CAPPED AND ABANDONED. HOUSE KEEPING PAD SHALL REMAIN AND BE MODIFIED AS NECESSARY TO ACCOMMODATE NEW EQUIPMENT.
- 4. EQUIPMENT LOCATED ON ROOF.
- 5. CONTRACTOR SHALL DEMOLISH HOT WATER PIPING TO ROOF TOP UNIT AND ABANDON HOT WATER COIL. UNIT WILL RECEIVE AN ELECTRIC DUCT HEATER. COORDINATE WITH NEW WORK REQUIREMENTS. REFERENCE SITE PLAN FOR HOT WATER PIPING ROUTING.

LEGEND:

- EXISTING TO BE DEMOLISHED
- _____ EXISTING TO REMAIN



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EDINBURG CONSOLIDATED INDEPENDENT SCHOOL DISTRICT
MEMORIAL MS - HVAC IMPROVEMENTS
 3105 N DOOLITTLE RD, EDINBURG, TX 78542

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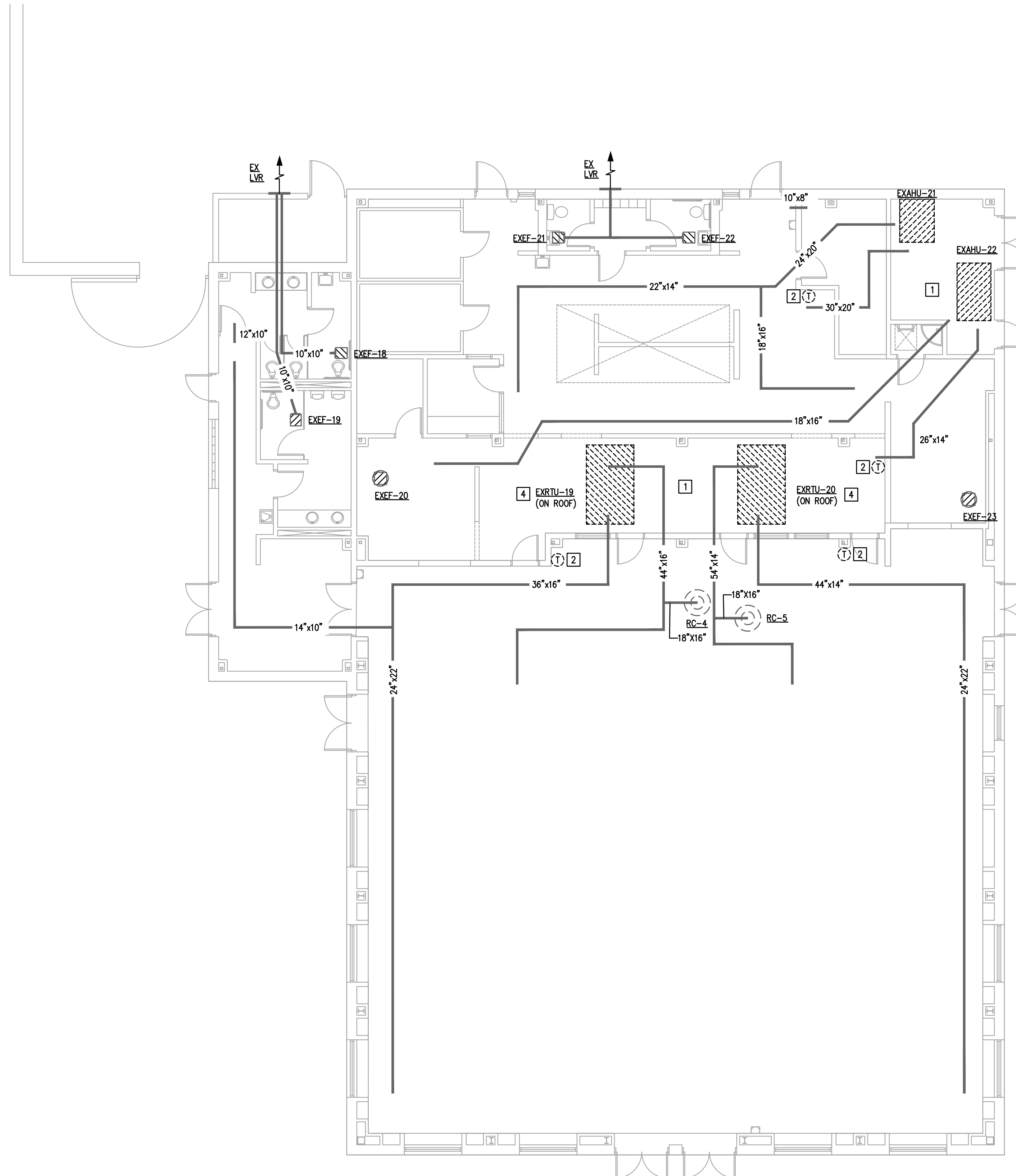
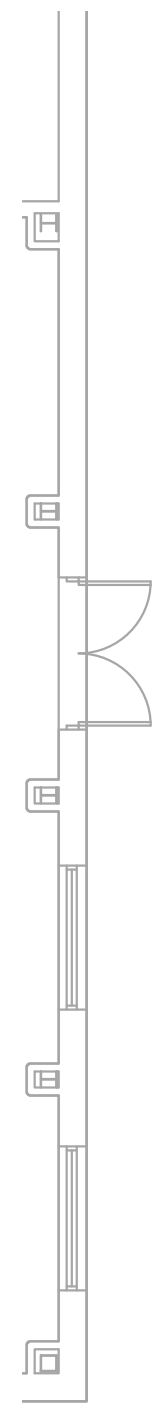
LEVEL 1 MECHANICAL DEMO PLAN - F

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MECHANICAL DEMO GENERAL NOTES:

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MECHANICAL DEMOLITION KEY NOTES:

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- 4. EQUIPMENT LOCATED ON MEZZANINE.

LEGEND:

- EXISTING TO BE DEMOLISHED
- ===== EXISTING TO REMAIN

1 LEVEL 1 MECHANICAL DEMO PLAN - G
 1/8" = 1'-0"



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MEMORIAL MS - HVAC IMPROVEMENTS
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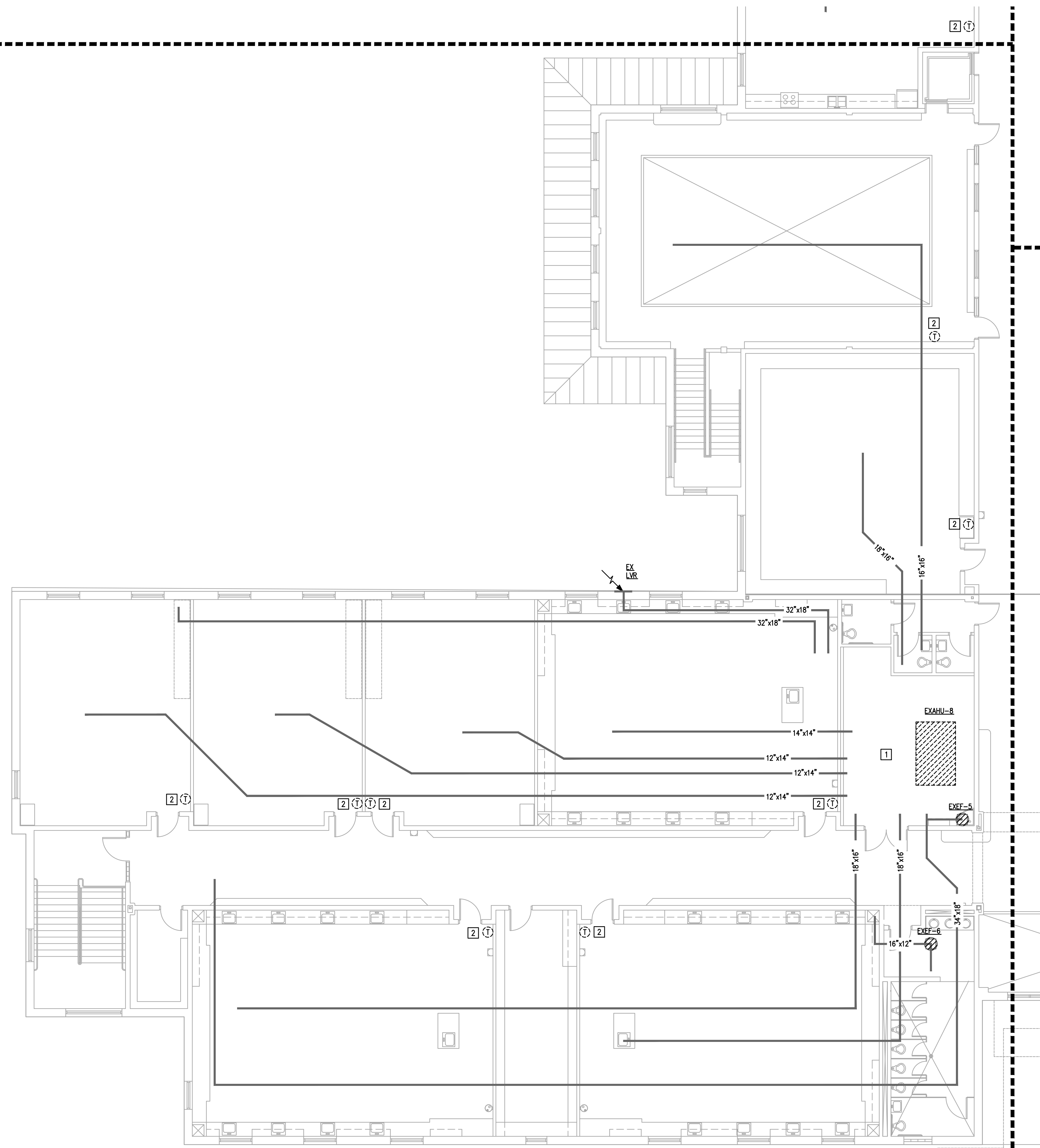
LEVEL 1 MECHANICAL DEMO PLAN - G

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1 LEVEL 2 MECHANICAL DEMO PLAN - A
MD2.21A 1/8" = 1'-0"

MECHANICAL DEMO GENERAL NOTES:

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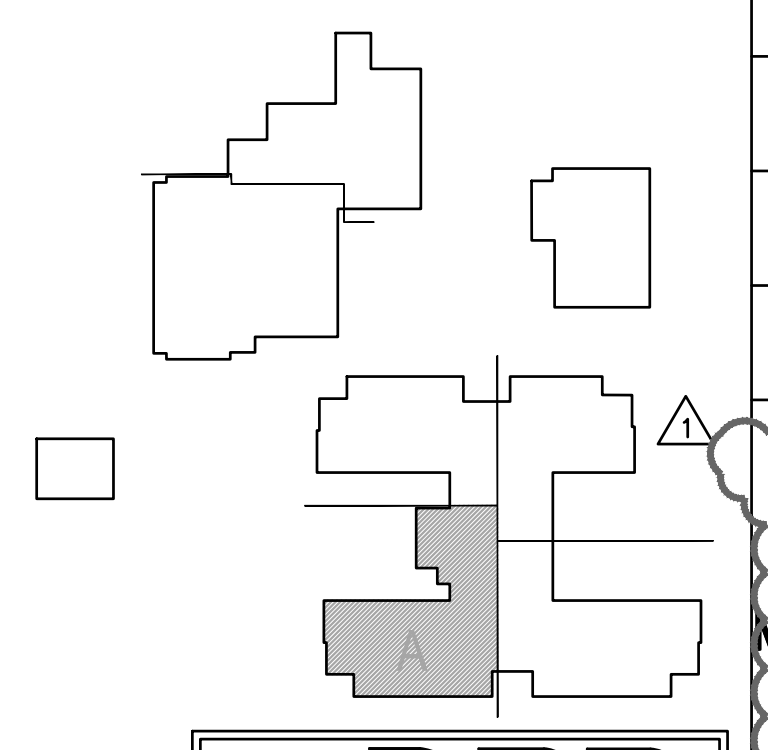
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EDINBURG CONSOLIDATED INDEPENDENT SCHOOL DISTRICT
MEMORIAL MS - HVAC IMPROVEMENTS
3105 N DOOLITTLE RD, EDINBURG, TX 78542



DBR
9990 Richmond Avenue, South Building, Suite 300
Houston, Texas 77042
713.914.0888 p. 713.914.0888 f.
TBPE Firm Registration No. 2234

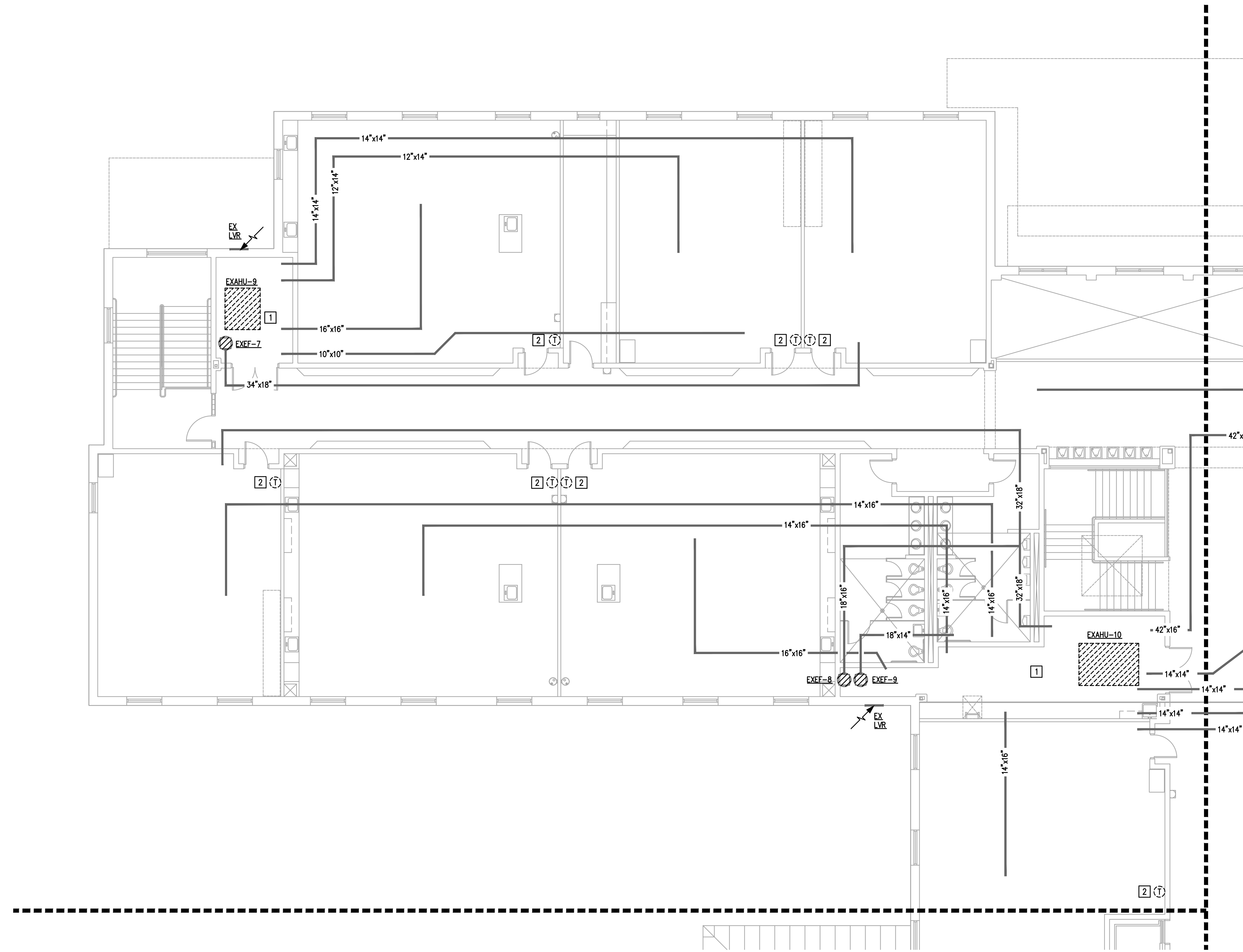
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| PROJECT NUMBER: | 218007.002 |
| SHEET TITLE: | LEVEL 2 MECHANICAL DEMO PLAN - A |
| SHEET NUMBER: | MD2.21A |

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1 LEVEL 2 MECHANICAL DEMO PLAN - B
MD2.21B 1/8" = 1'-0"

MECHANICAL DEMO GENERAL NOTES:

- A. IT IS THE CONTRACTOR'S RESPONSIBILITY TO HAVE VERIFIED EXISTING JOBSITE CONDITIONS DURING THE BIDDING PERIOD, SO THEY HAVE OBTAINED THE SCOPE OF THE MECHANICAL DEMOLITION WORK INVOLVED AS A RESULT OF MODIFICATIONS TO THE EXISTING STRUCTURE. THE SCOPE OF WORK SHALL INCLUDE MATERIALS AND DUCTWORK CONSISTING OF DEVICES, EQUIPMENT, OR APPARATUS WHICH MAY BE REROUTED, RELOCATED, OR REMOVED EITHER TEMPORARILY OR PERMANENTLY, OR WHICH MUST BE REROUTED OR REMOVED EITHER ACCOMPLISHED. NOT ALL EXISTING CONDITIONS ARE NECESSARILY INDICATED ON DRAWINGS; CONTRACTOR SHALL DEMOLISH ONLY WHAT IS INDICATED TO BE DEMOLISHED ON DRAWINGS.
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EDINBURG CONSOLIDATED INDEPENDENT SCHOOL DISTRICT
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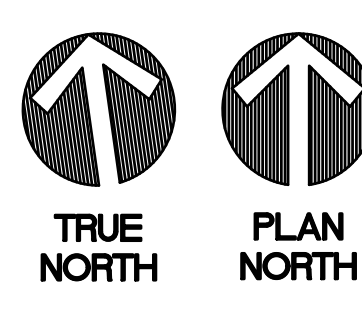
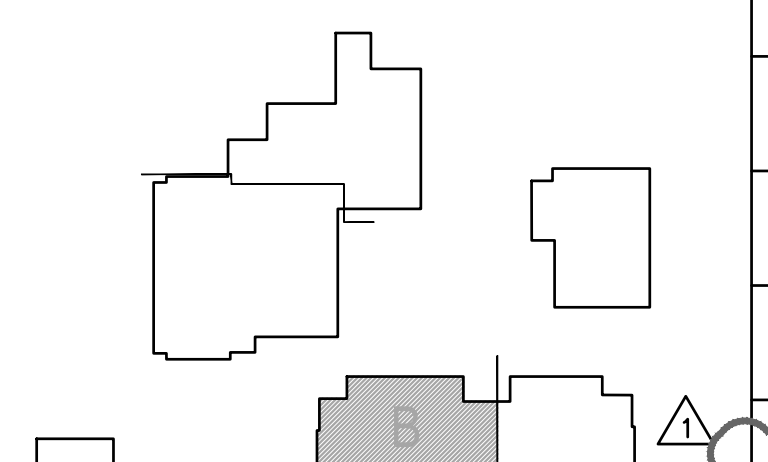
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LEVEL 2 MECHANICAL DEMO PLAN - B

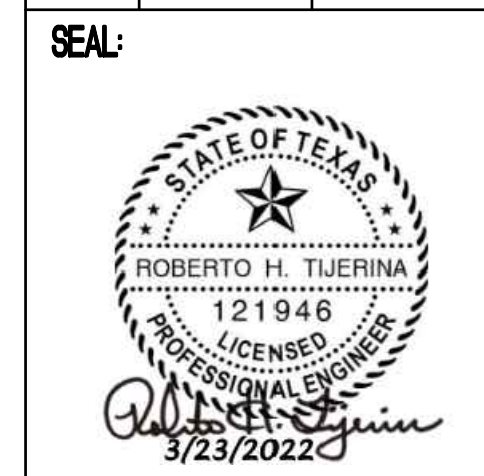
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EDINBURG CONSOLIDATED INDEPENDENT SCHOOL DISTRICT
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LEVEL 2
 MECHANICAL DEMO
 PLAN - C

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MECHANICAL DEMO GENERAL NOTES:

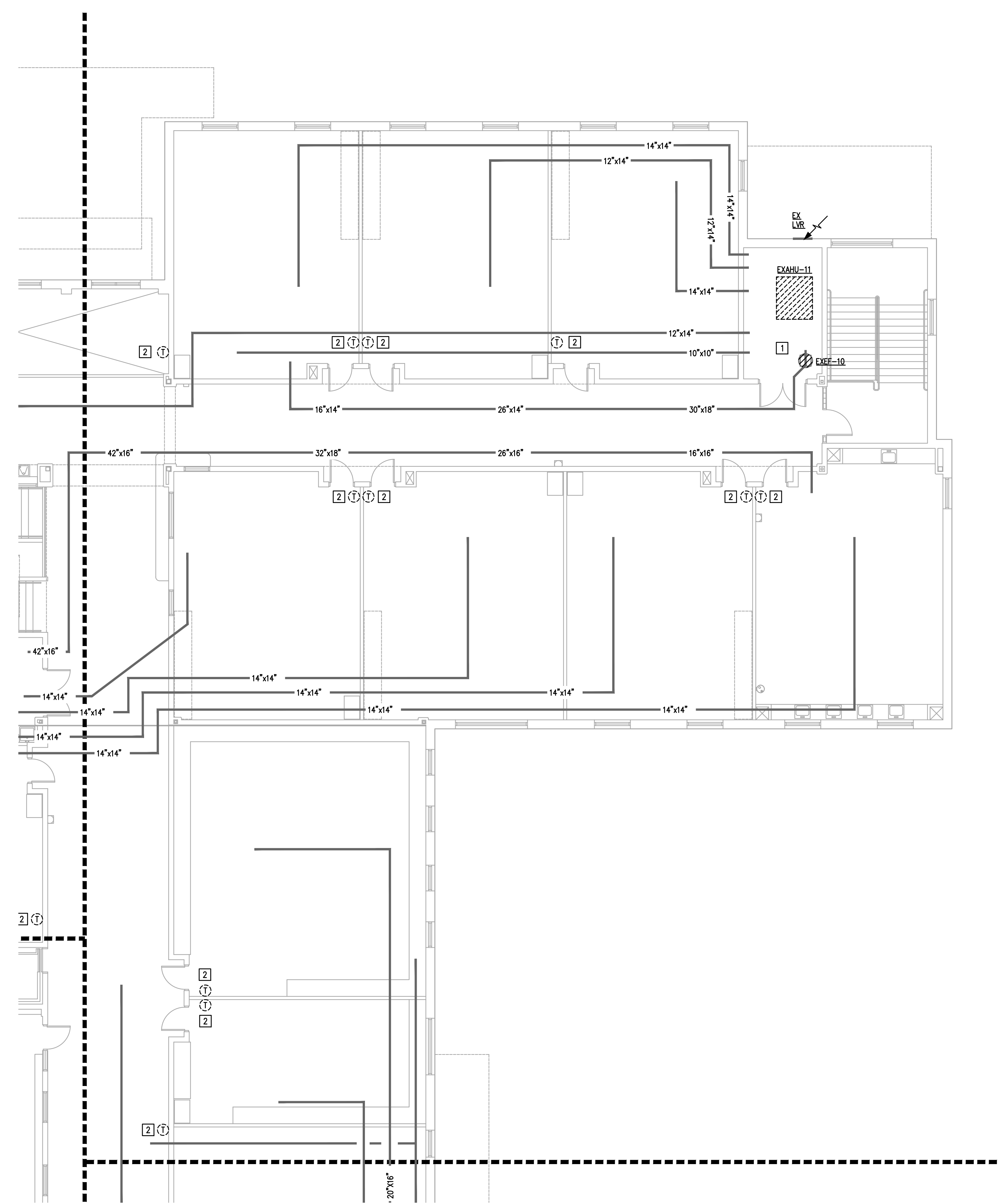
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- ALL EQUIPMENT, DUCTWORK, CONTROLS AND ACCESSORIES FOUND TO BE ABANDONED SHALL BE REMOVED.
- ALL EXISTING DUCTWORK AND EQUIPMENT TO BE REUSED MUST BE CLEANED, PAINTED, AND ALL DAMAGED PARTS MUST BE REPAIRED OR REPLACED.
- CONTRACTOR SHALL COORDINATE CONSTRUCTION WITH BUILDING FACILITY AS TO NOT DISTURB OPERATING HOURS.
- CONTRACTOR SHALL COORDINATE CLEARANCES WITH ALL APPLICABLE TRADES TO ENSURE THAT ALL NECESSARY CODES ARE IN COMPLIANCE.

MECHANICAL DEMOLITION KEY NOTES:

- REFER TO ENLARGED MECHANICAL ROOM PLANS FOR MECHANICAL ROOM VIEWS CONTINUATION.
- EXISTING T-STAT AND CONDUCTORS SHALL BE REMOVED. EXISTING J-BOX SHALL REMAIN FOR RE-USE.

LEGEND:

- EXISTING TO BE DEMOLISHED
- ===== EXISTING TO REMAIN

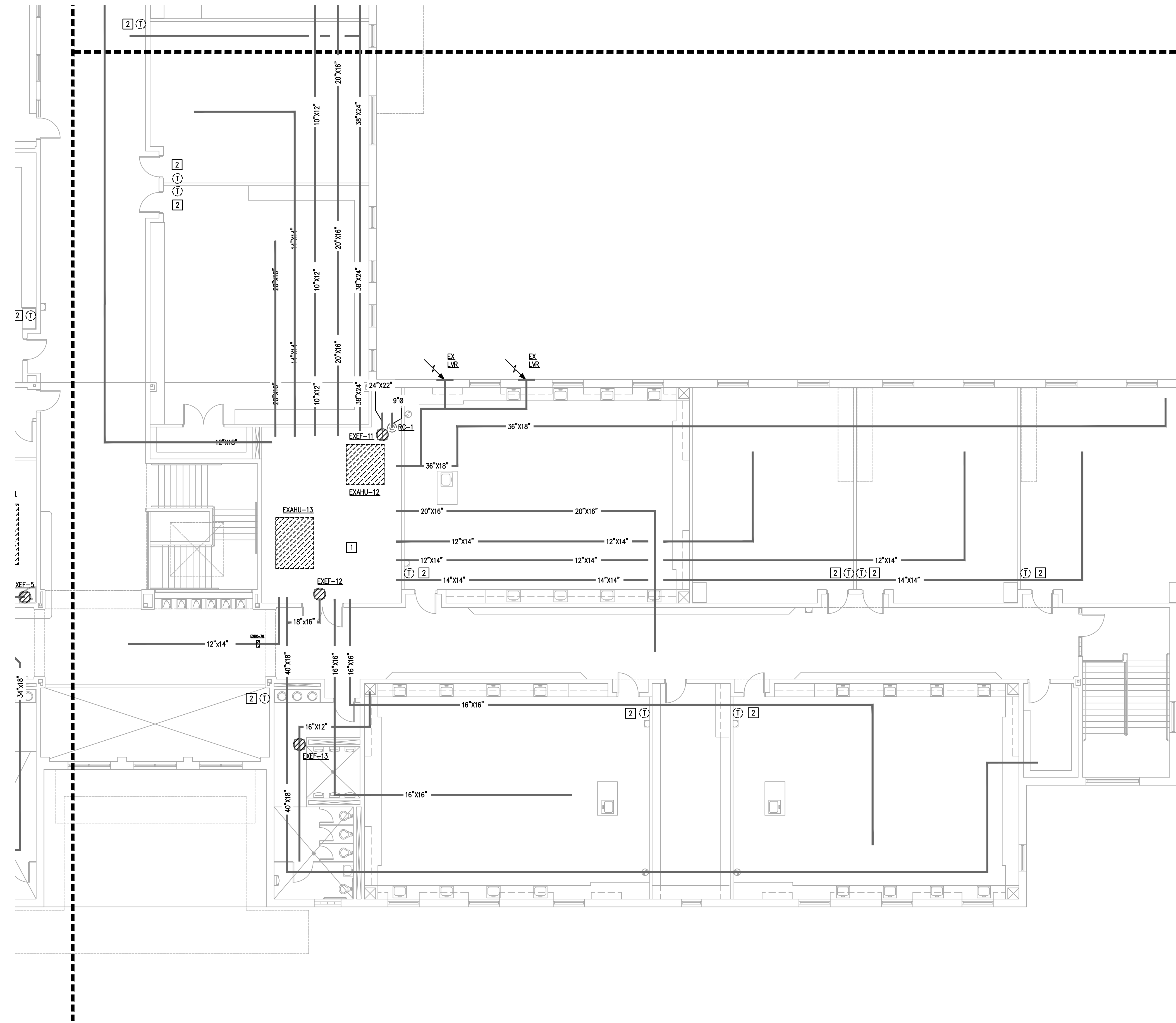


1 LEVEL 2 MECHANICAL DEMO PLAN - C
 MD2.21C 1/8" = 1'-0"

DBR
 9990 Richmond Avenue, South Building, Suite 300
 Houston, Texas 77042
 713.914.0888 p 713.914.0886 f
 TBPE Firm Registration No. 2234

TRUE NORTH
 PLAN NORTH

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1 LEVEL 2 MECHANICAL DEMO PLAN - D
 MD2.21D 1/8" = 1'-0"

MECHANICAL DEMO GENERAL NOTES:

- A. IT IS THE CONTRACTOR'S RESPONSIBILITY TO HAVE VERIFIED EXISTING JOBSITE CONDITIONS DURING THE BIDDING PERIOD, SO THEY HAVE OBTAINED THE SCOPE OF THE MECHANICAL DEMOLITION WORK INVOLVED AS A RESULT OF MODIFICATIONS TO THE EXISTING STRUCTURE. THE SCOPE OF WORK SHALL INCLUDE MATERIALS AND DUCTWORK CONSISTING OF DEVICES, EQUIPMENT, OR APPARATUS WHICH MAY BE REROUTED, RELOCATED, OR REMOVED EITHER TEMPORARILY OR PERMANENTLY, OR WHICH MUST BE REROUTED OR REMOVED EITHER ACCOMPISHED. NOT ALL EXISTING CONDITIONS ARE NECESSARILY INDICATED ON DRAWINGS. CONTRACTOR SHALL DEMOLISH ONLY WHAT IS INDICATED TO BE DEMOLISHED ON DRAWINGS.
- B. CONTRACTOR SHALL COORDINATE WITH OWNER FOR ALL EQUIPMENT BEING REMOVED. OWNER SHALL RESERVE THE RIGHT TO CLAIM ALL EQUIPMENT, DUCTWORK, AND AIR DEVICES REMOVED DURING DEMOLITION.
- C. CONTRACTOR TO REPORT ANY DAMAGED EQUIPMENT THAT IS SHOWN AS EXISTING TO REMAIN TO THE OWNER PRIOR TO STARTING ALL WORK. ALL EQUIPMENT FOUND TO BE DAMAGED AT THE TIME OF SUBSTANTIAL COMPLETION, THAT HAD NOT BEEN REPORTED PRIOR TO CONSTRUCTION, CONTRACTOR TO REPAIR AT THEIR OWN COST.
- D. ALL REMOVED EQUIPMENT WITH ACCESS TO DUCTWORK, SHAFTS, OR PIPING, SHALL HAVE ALL CONNECTIONS TO THESE MATERIAL CLEANED, WHERE THE MATERIALS ARE REUSED. FOR EXAMPLE, EXHAUST SHAFTS THAT ARE SCHEDULED FOR REUSE AND SHALL BE CLEANED TO THE FULLEST EXTENT POSSIBLE. NOTIFY ARCHITECT/ENGINEER TEAM OF ANY DEFICIENCIES FOUND UPON REMOVAL OF HVAC SYSTEM, THAT ARE NOT INDICATED IN THESE PLANS AND SPECIFICATIONS.
- E. ALL EQUIPMENT, DUCTWORK, CONTROLS AND ACCESSORIES FOUND TO BE ABANDONED SHALL BE REMOVED.
- F. ALL EXISTING DUCTWORK AND EQUIPMENT TO BE REUSED MUST BE CLEANED, PAINTED, AND ALL DAMAGED PARTS MUST BE REPAIRED OR REPLACED.
- G. CONTRACTOR SHALL COORDINATE CONSTRUCTION WITH BUILDING FACILITY AS TO NOT DISTURB OPERATING HOURS.
- H. CONTRACTOR SHALL COORDINATE CLEARANCES WITH ALL APPLICABLE TRADES TO ENSURE THAT ALL NECESSARY CODES ARE IN COMPLIANCE.

MECHANICAL DEMOLITION KEY NOTES: [F]

1. REFER TO ENLARGED MECHANICAL ROOM PLANS FOR MECHANICAL ROOM VIEWS CONTINUATION.
2. EXISTING T-STAY AND CONDUCTORS SHALL BE REMOVED. EXISTING J-BOX SHALL REMAIN FOR RE-USE.

LEGEND:

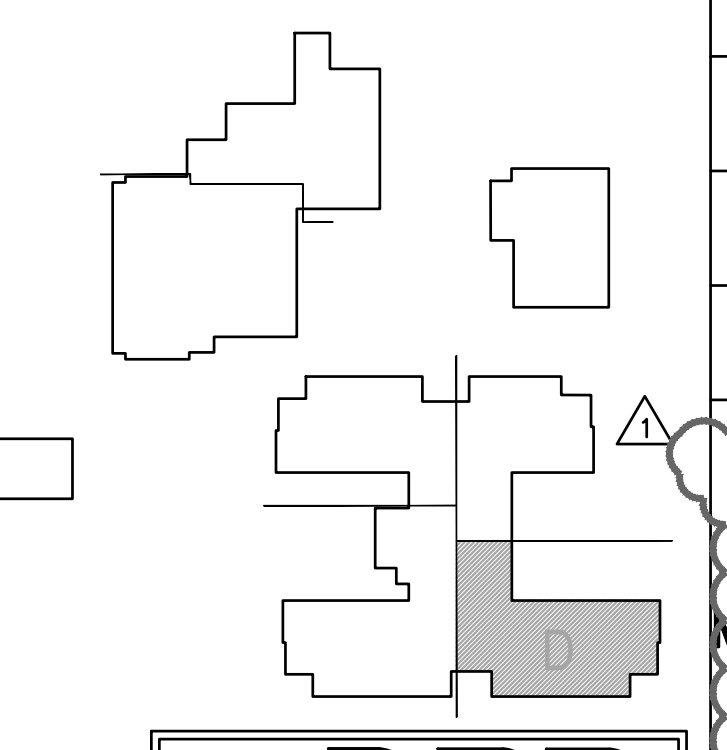
- EXISTING TO BE DEMOLISHED
- _____ EXISTING TO REMAIN



| REVISION No. | DATE | DESCRIPTION |
|--------------|-----------|-------------|
| 01 | 3/23/2022 | ADDENDUM #1 |
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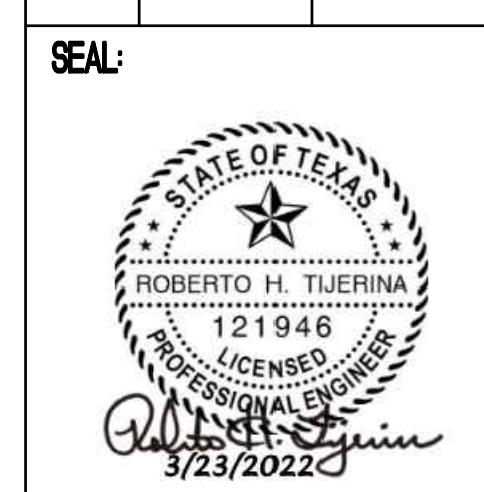
**EDINBURG CONSOLIDATED INDEPENDENT SCHOOL DISTRICT
 MEMORIAL MS - HVAC IMPROVEMENTS**
 3105 N DOOLITTLE RD, EDINBURG, TX 78542



9990 Richmond Avenue, South Building, Suite 300
 Houston, Texas 77042
 713.914.0888 p 713.914.0888 f
 TBPE Firm Registration No. 2234
 DBR Project Number 218007.002
 HA JA JB

| | |
|-----------------|----------------------------------|
| DATE: | 3/23/2022 |
| DRAWN BY: | DBR |
| CHECKED BY: | DBR |
| PROJECT NUMBER: | 218007.002 |
| SHEET TITLE: | LEVEL 2 MECHANICAL DEMO PLAN - D |
| SHEET NUMBER: | MD2.21D |

| REVISION No. | DATE | DESCRIPTION |
|--------------|-----------|-------------|
| 01 | 3/23/2022 | ADDENDUM #1 |




EDINBURG CONSOLIDATED INDEPENDENT SCHOOL DISTRICT
MEMORIAL MS - HVAC IMPROVEMENTS
 3105 N DOOLITTLE RD, EDINBURG, TX 78542

| | |
|-----------------|------------|
| DATE: | 3/23/2022 |
| DRAWN BY: | DBR |
| CHECKED BY: | DBR |
| PROJECT NUMBER: | 218007.002 |
| SHEET TITLE: | |

ENLARGED MECHANICAL DEMO PLAN

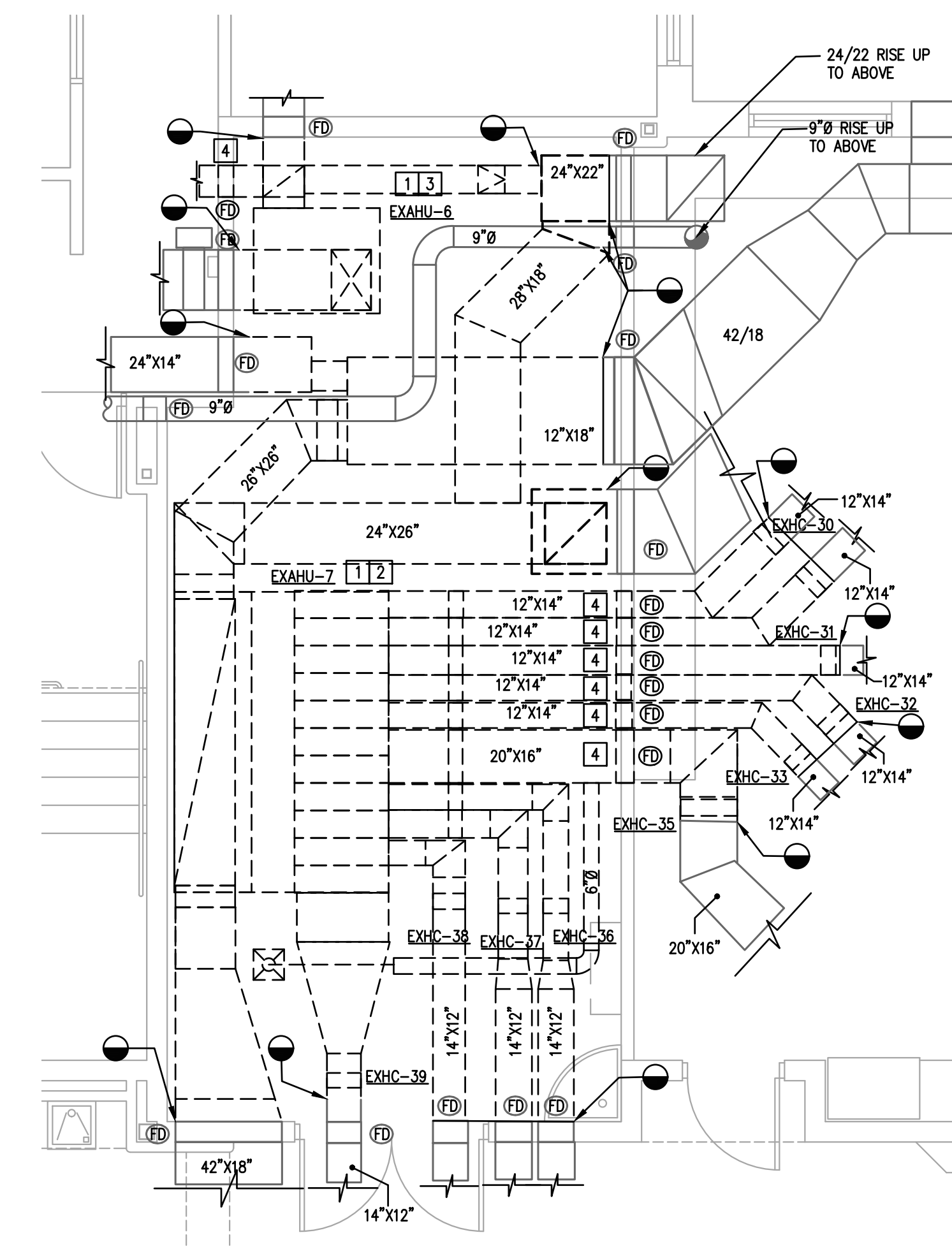
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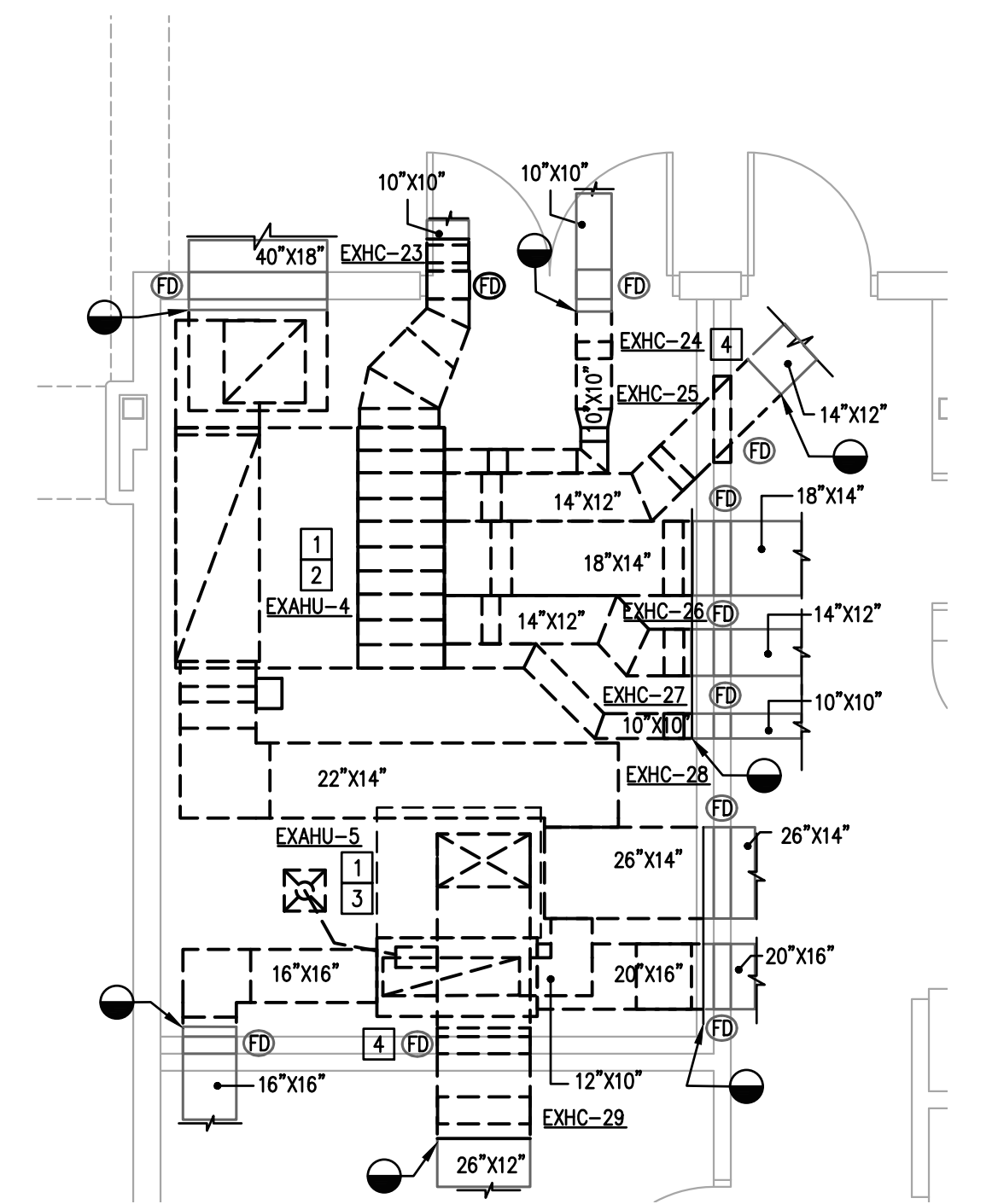
9990 Richmond Avenue, South Building, Suite 300
Houston, Texas 77042
713.914.0888 p. 713.914.0888 f.
TBPE Firm Registration No. 2234

DBR Project Number: 218007.002

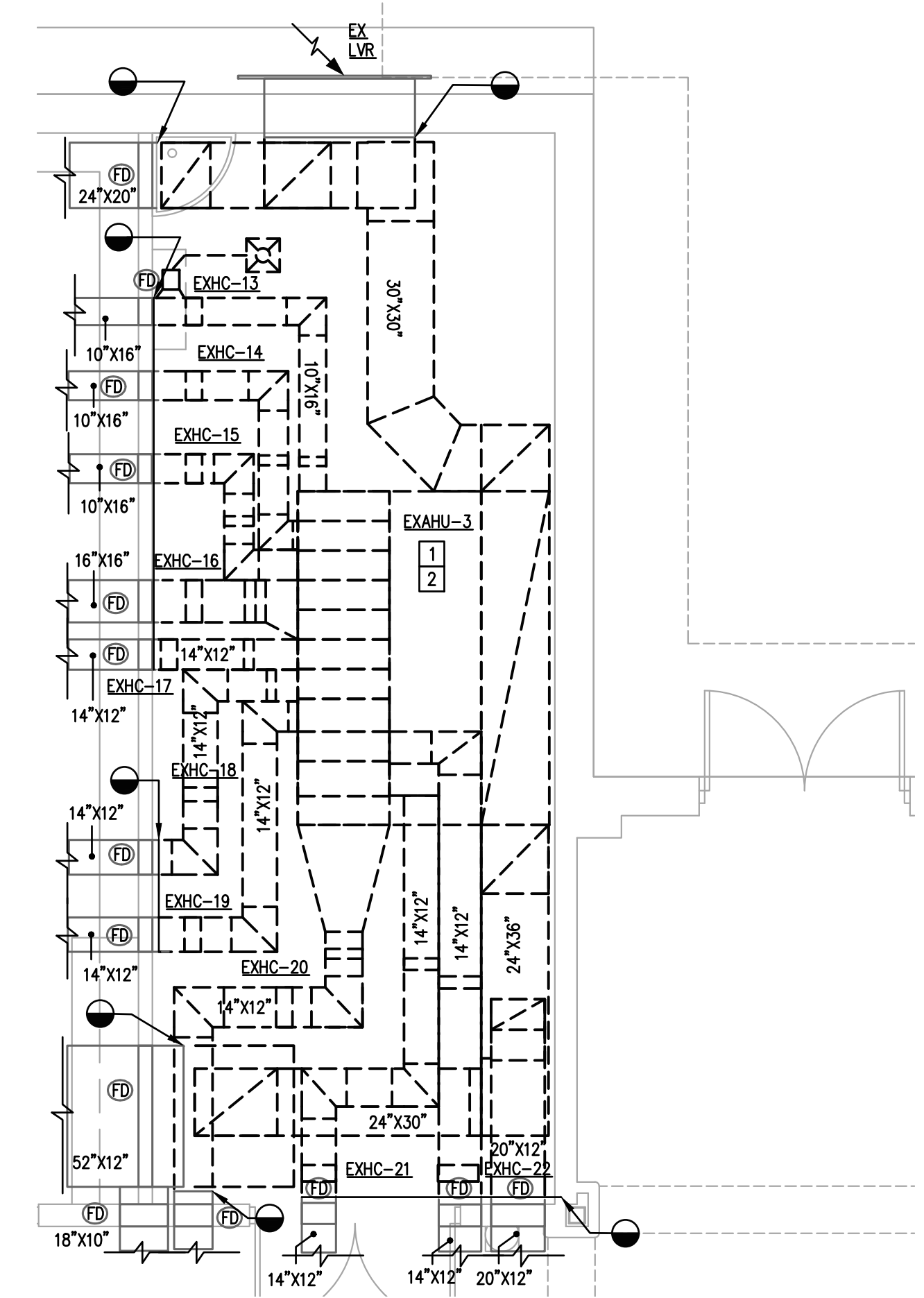
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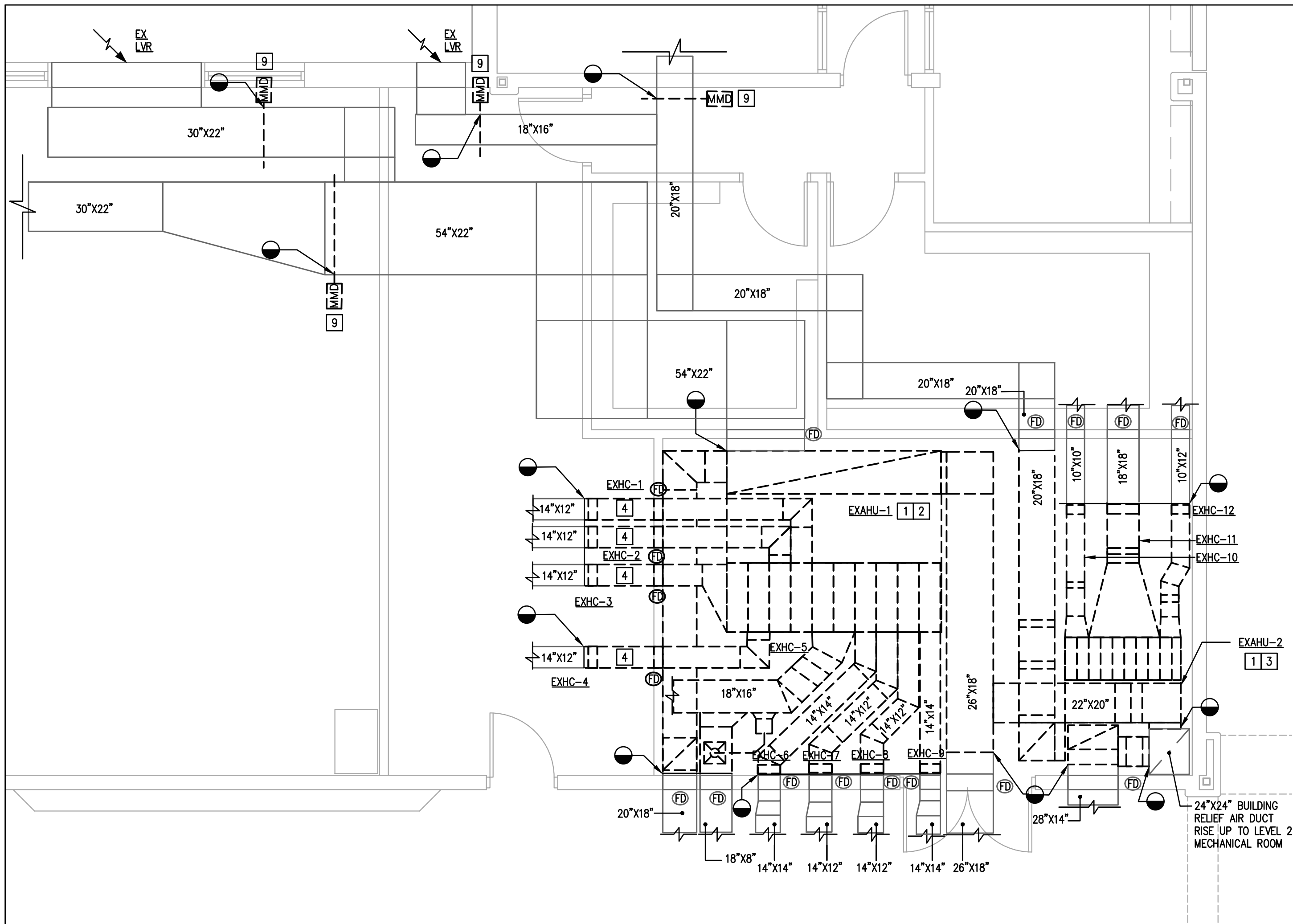
7 LEVEL 1D DEMO EXAHU-6 AND EXAHU-7
MD3.10 1/4" = 1'-0"



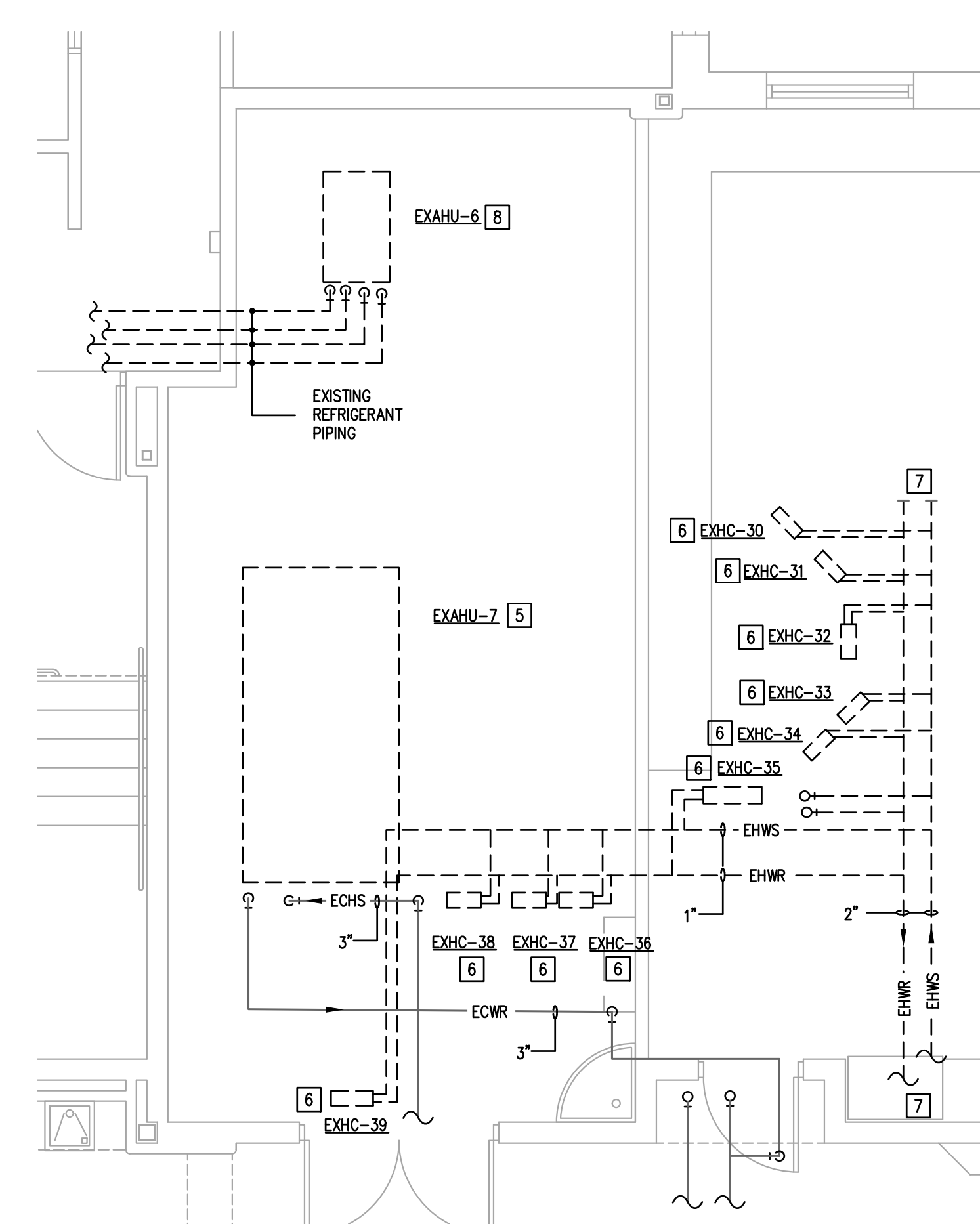
5 LEVEL 1C DEMO EXAHU-4 AND EXAHU-5
MD3.10 1/4" = 1'-0"



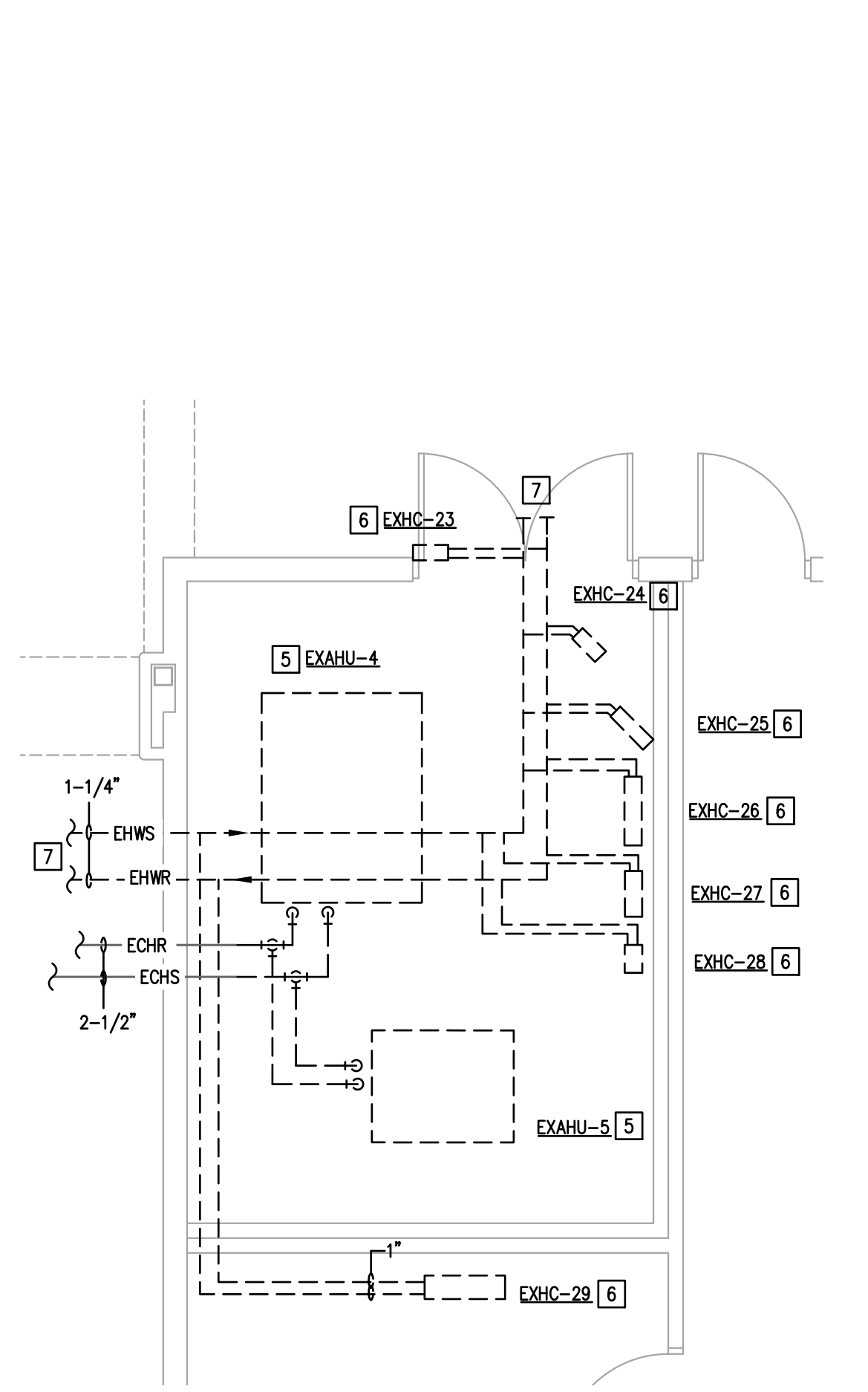
3 LEVEL 1B DEMO EXAHU-3
MD3.10 1/4" = 1'-0"



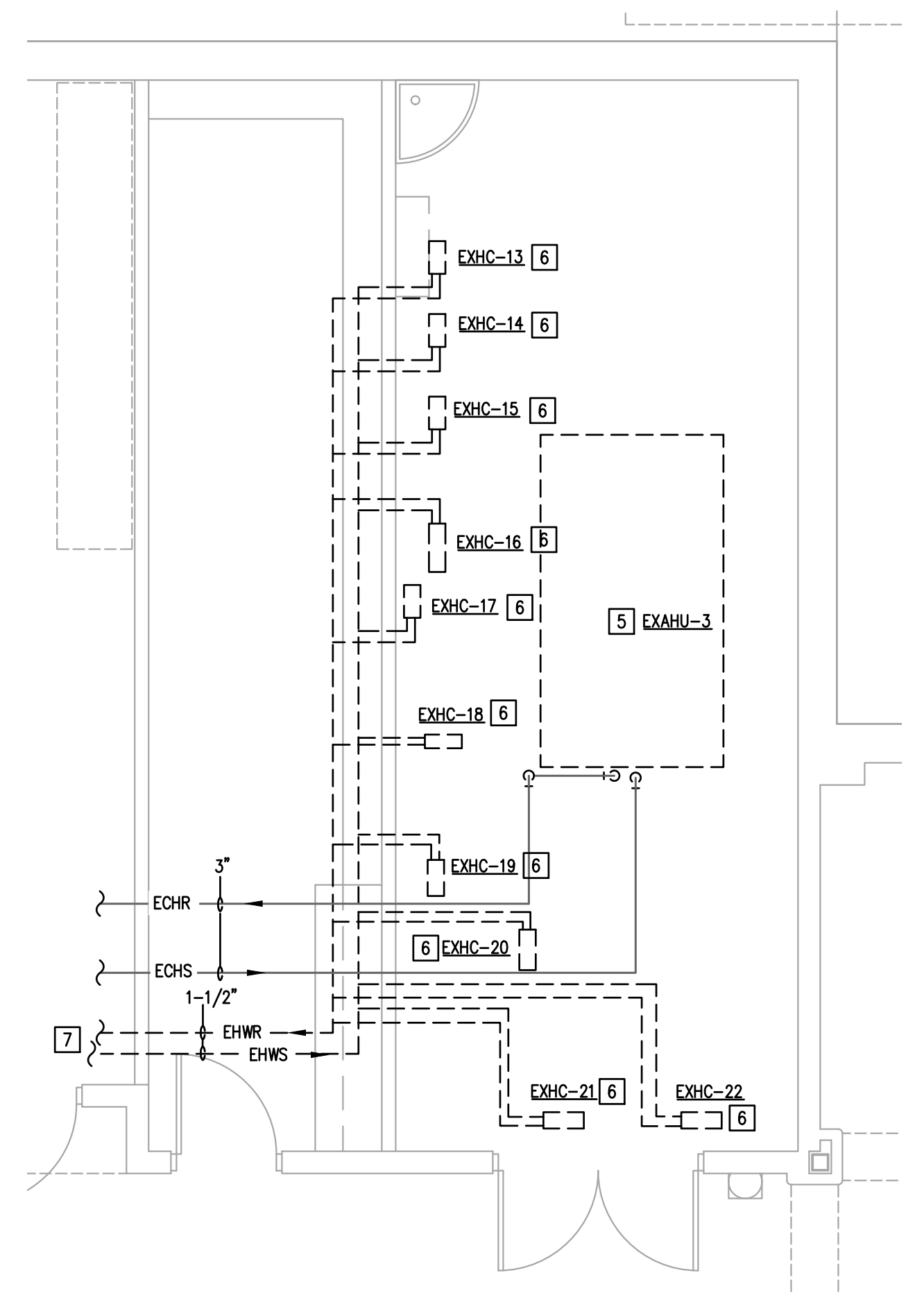
1 LEVEL 1A DEMO EXAHU-1 AND EXAHU-2
MD3.10 1/4" = 1'-0"



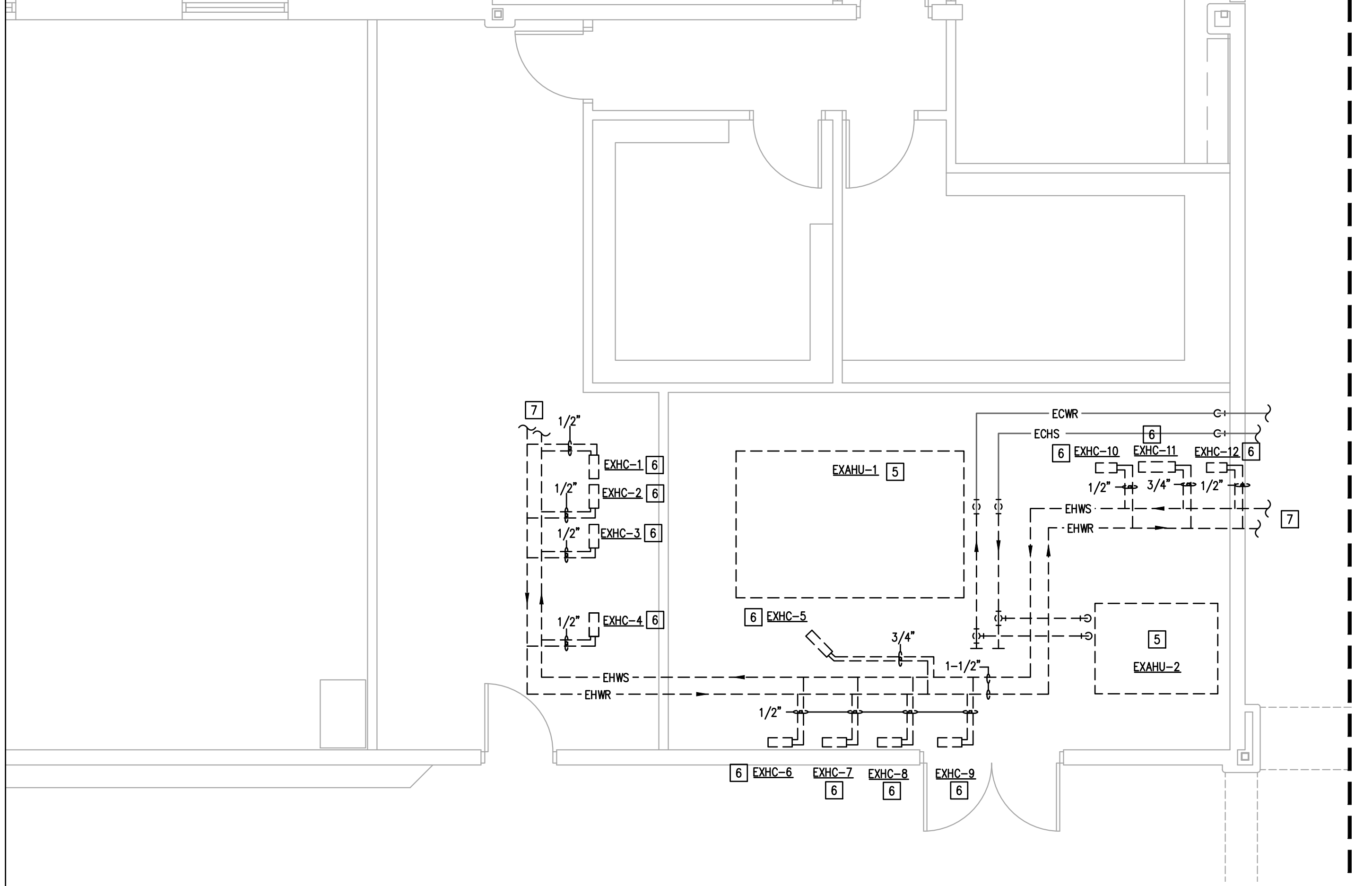
8 LEVEL 1D DEMO HYDRONIC PIPING EXAHU-6 AND EXAHU-7
MD3.10 1/4" = 1'-0"



6 LEVEL 1C DEMO HYDRONIC PIPING EXAHU-4 AND EXAHU-5
MD3.10 1/4" = 1'-0"



4 LEVEL 1B DEMO HYDRONIC PIPING EXAHU-3
MD3.10 1/4" = 1'-0"



2 LEVEL 1A DEMO HYDRONIC PIPING EXAHU-1 AND EXAHU-2
MD3.10 1/4" = 1'-0"

MECHANICAL DEMO GENERAL NOTES:

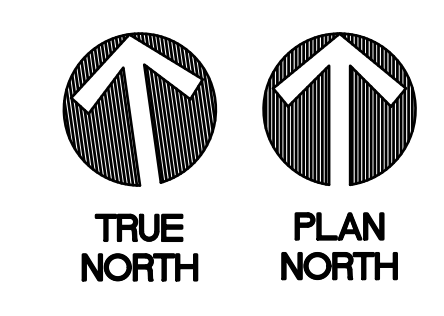
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO HAVE VERIFIED EXISTING JOBSITE CONDITIONS DURING THE BIDDING PERIOD, SO THEY HAVE OBTAINED THE SCOPE OF THE MECHANICAL DEMOLITION WORK INVOLVED AS A RESULT OF MODIFICATIONS TO THE EXISTING STRUCTURE. THE SCOPE OF WORK SHALL INCLUDE MATERIALS AND DUCTWORK CONSISTING OF DEVICES, EQUIPMENT, OR APPARATUS WHICH MAY BE REROUTED, RELOCATED, OR REMOVED EITHER TEMPORARILY OR PERMANENTLY, OR WHICH MUST BE REROUTED OR REMOVED EITHER ACCOMPLISHED. NOT ALL EXISTING CONDITIONS ARE NECESSARILY INDICATED ON DRAWINGS, CONTRACTOR SHALL DEMOLISH ONLY WHAT IS INDICATED ON DRAWINGS.
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- ALL REMOVED EQUIPMENT WITH ACCESS TO DUCTWORK, SHAFTS, OR PIPING, SHALL HAVE ALL CONNECTIONS TO THESE MATERIAL CLEANED, WHERE THE MATERIALS ARE REUSED. FOR EXAMPLE, EXHAUST SHIFTS THAT ARE SCHEDULED FOR REUSE AND SHALL BE CLEANED TO THE FULLEST EXTENT POSSIBLE. NOTIFY ARCHITECT/ENGINEER TEAM OF ANY DEFICIENCIES FOUND UPON REMOVAL OF HVAC SYSTEM, THAT ARE NOT INDICATED IN THESE PLANS AND SPECIFICATIONS.
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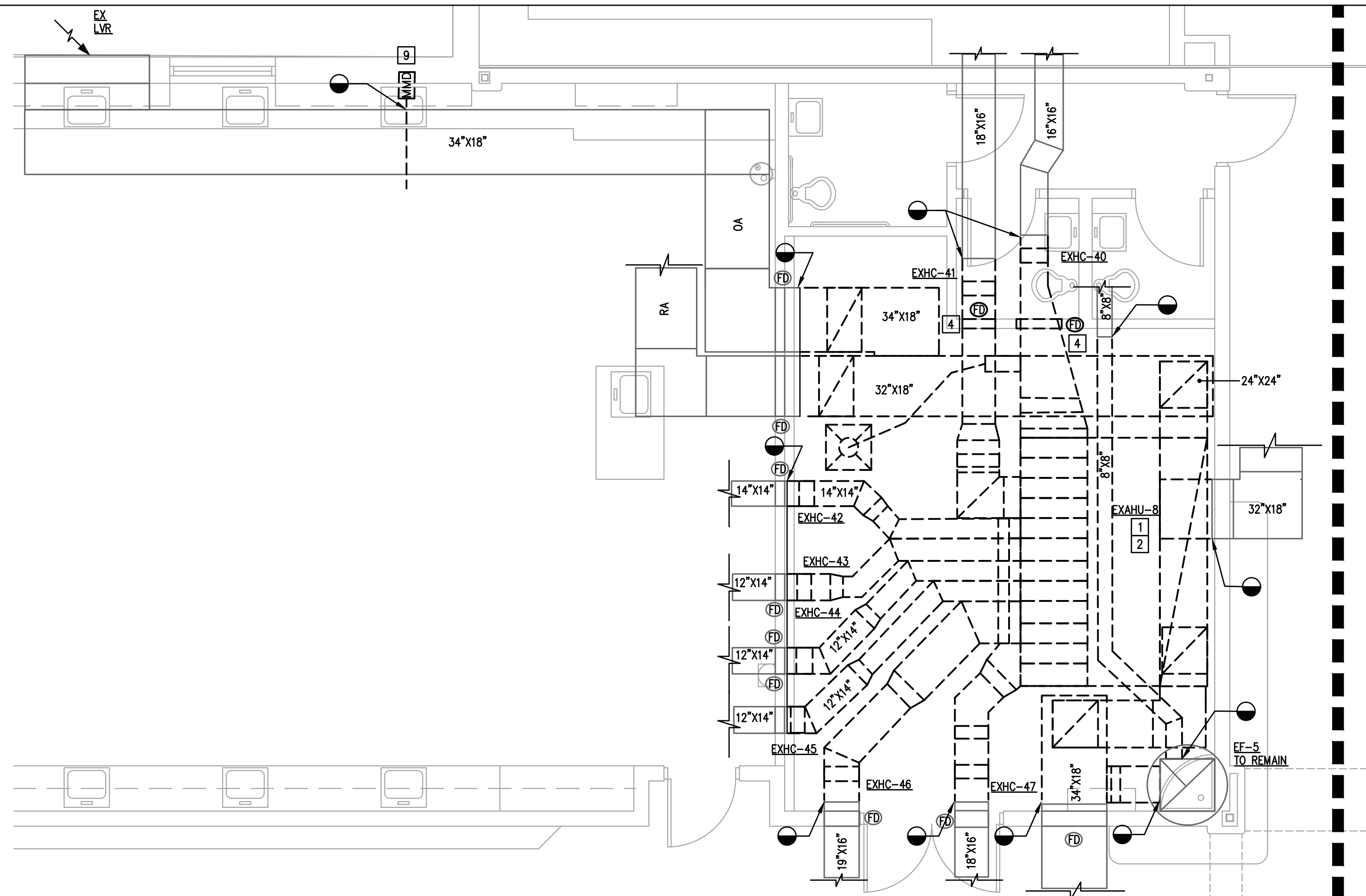
MECHANICAL DEMOLITION KEY NOTES:

- EXISTING AIR HANDLING UNIT TO BE REMOVED IN ITS ENTIRETY. REMOVE THE SUPPLY, RETURN (WHERE APPLICABLE), AND OUTSIDE AIR DUCT AS INDICATED. REMOVE EXISTING BUILDING AUTOMATION SENSORS.
- HOUSE KEEPING PAD SHALL REMAIN AND BE MODIFIED AND NECESSARY TO ACCOMMODATE THE NEW AIR HANDLING UNIT FOOTPRINT. COORDINATE WITH NEW WORK REQUIREMENTS. FIELD VERIFY EXISTING CONDITIONS.
- REMOVE EXISTING HOUSE KEEPING PAD.
- REMOVE EXISTING FIRE DAMPER AS INDICATED. PROVIDE NEW FIRE DAMPER AND SEAL WALL PENETRATION IN ORDER TO MAINTAIN EXISTING FIRE RATING. COORDINATE WITH NEW WORK REQUIREMENTS AND EXISTING FLOOR DRAINS. FIELD VERIFY EXISTING CONDITIONS.
- REMOVE EXISTING CHILLED WATER CONNECTION TO THE CLOSEST ISOLATION VALVE.
- EXISTING DUCT MOUNTED HOT WATER COIL TO BE REMOVED IN ITS ENTIRETY.
- REMOVE EXISTING HWS/R LINES INCLUSIVE OF MAINS, BRANCHES, RISERS, VALVES, ACCESSORIES, ETC. AS INDICATED. SEAL WALL PENETRATION IN ORDER TO MAINTAIN EXISTING FIRE RATING.
- REMOVE EXISTING REFRIGERANT PIPING BETWEEN CONDENSING UNIT AND AHU. PIPING IN WALLS SHALL BE CAPPED AND ABANDONED. SEAL WALL PENETRATION IN ORDER TO MAINTAIN EXISTING FIRE RATING.
- REMOVE EXISTING CONTROL DAMPER AND ACTUATOR. COORDINATE WITH NEW WORK REQUIREMENTS. FIELD VERIFY EXISTING CONDITIONS.

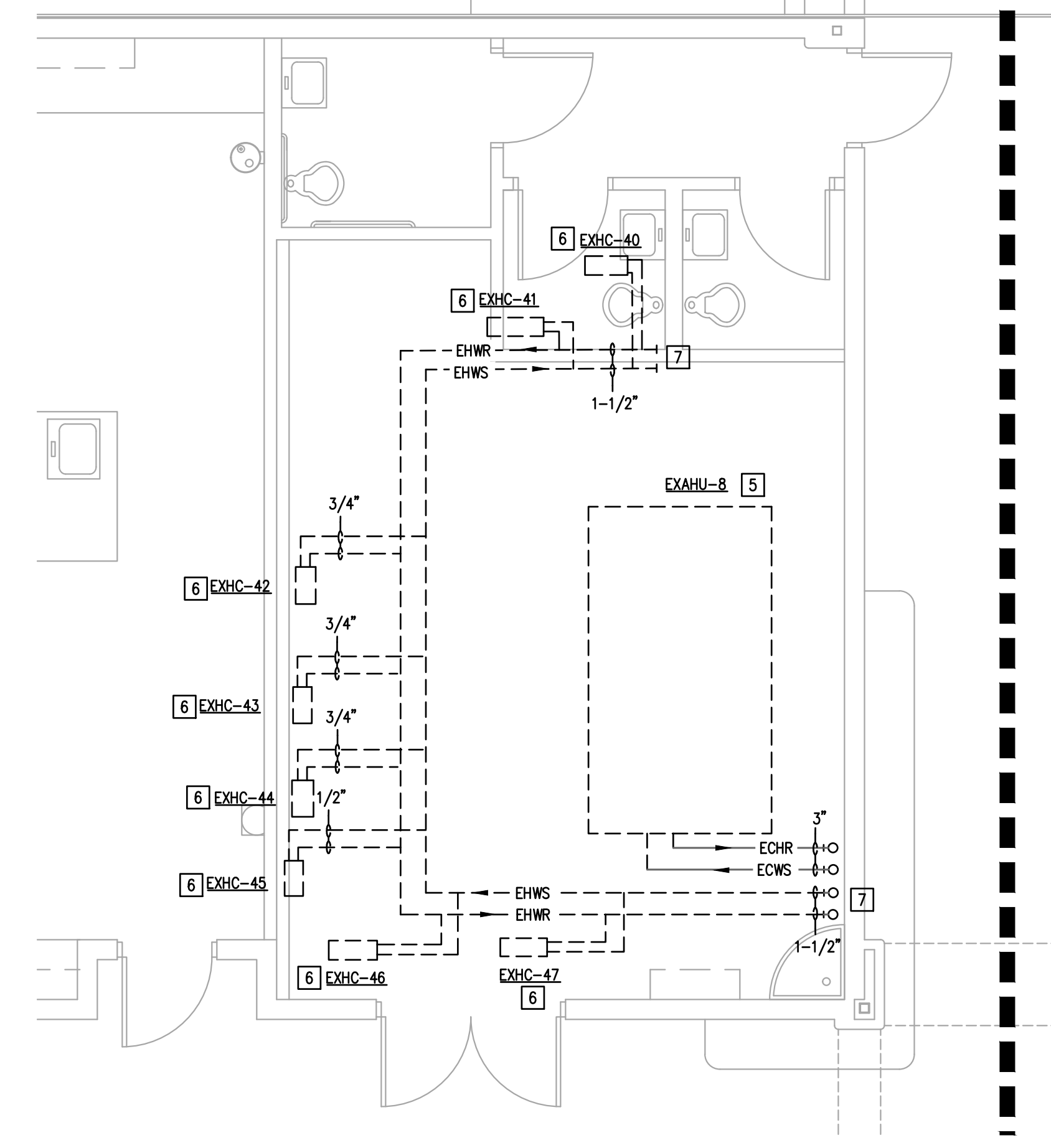
LEGEND:

- EXISTING TO BE DEMOLISHED
- EXISTING TO REMAIN

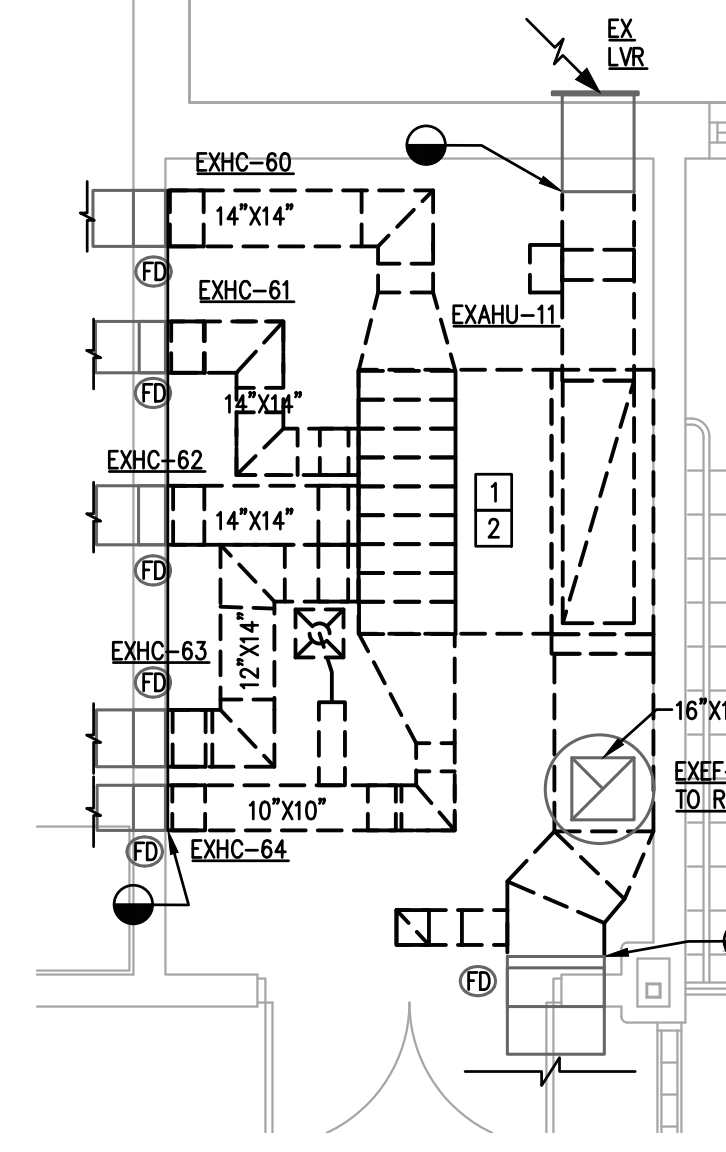




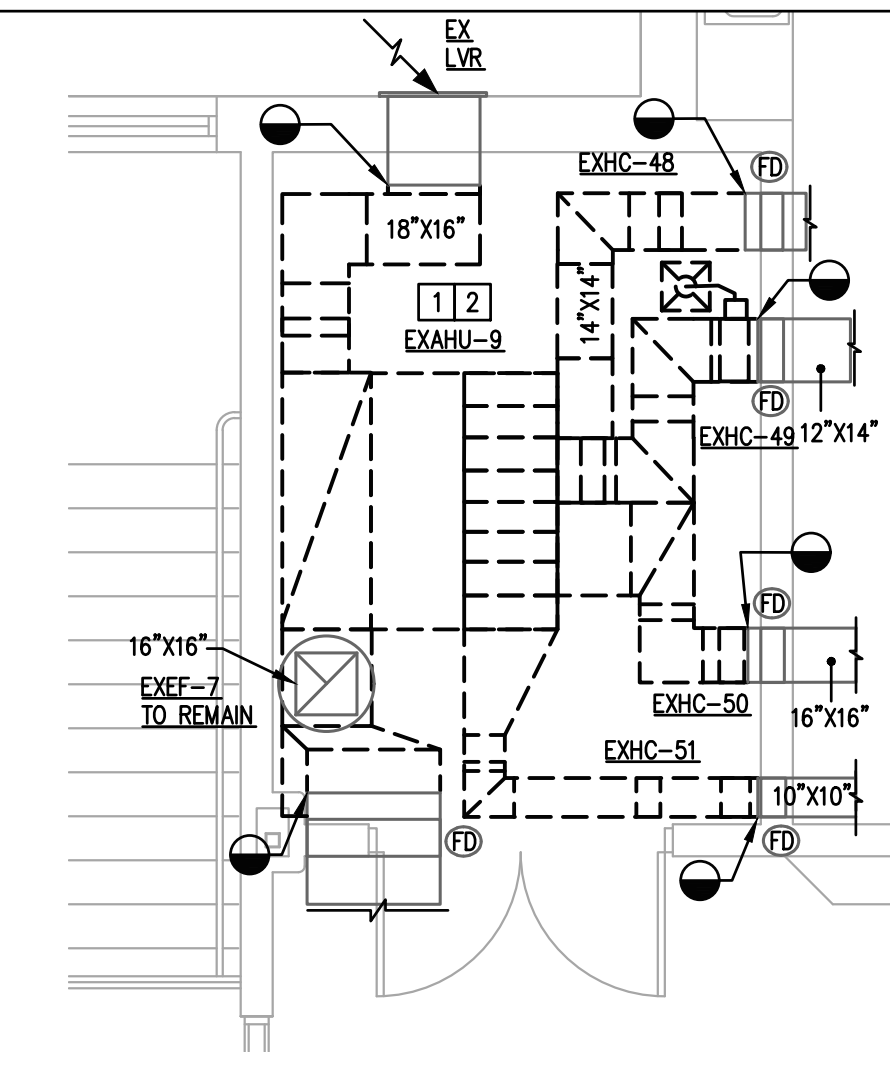
1 LEVEL 2A DEMO EXAHU-8
MD3.11 1/4" = 1'-0"



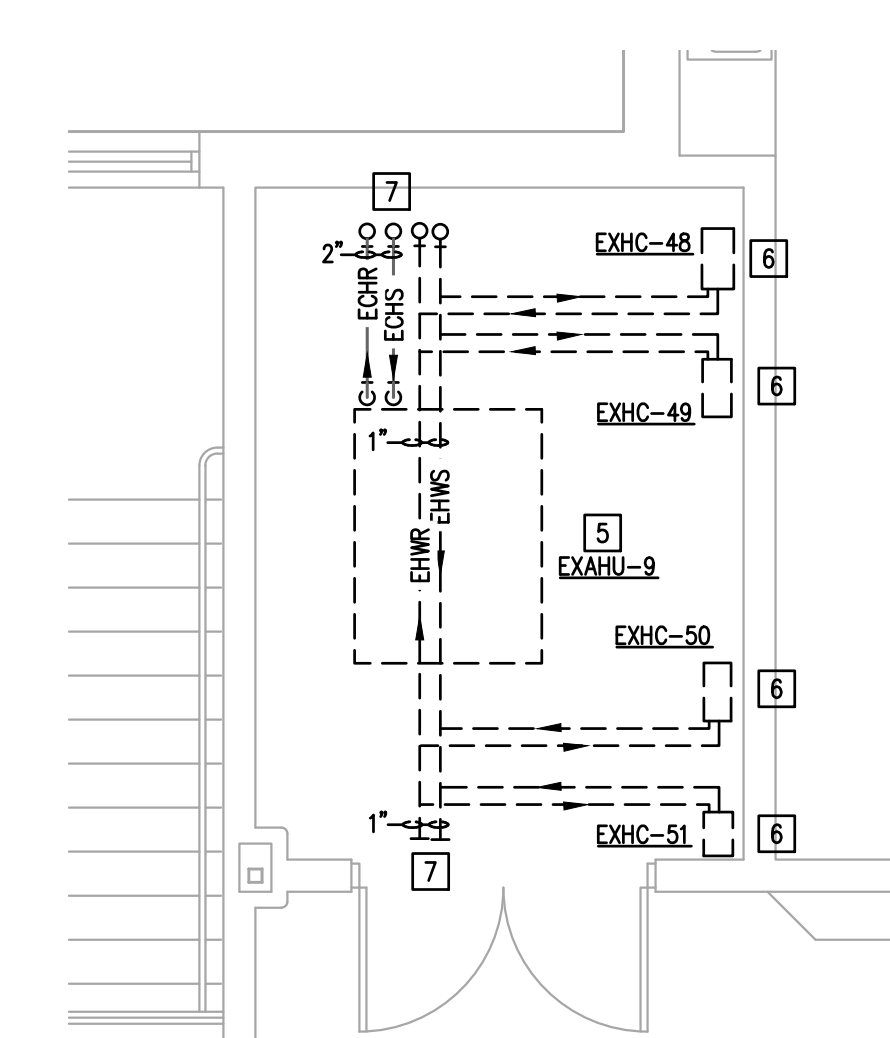
2 LEVEL 2A HYDRONIC PIPING EXAHU-8
MD3.11 1/4" = 1'-0"



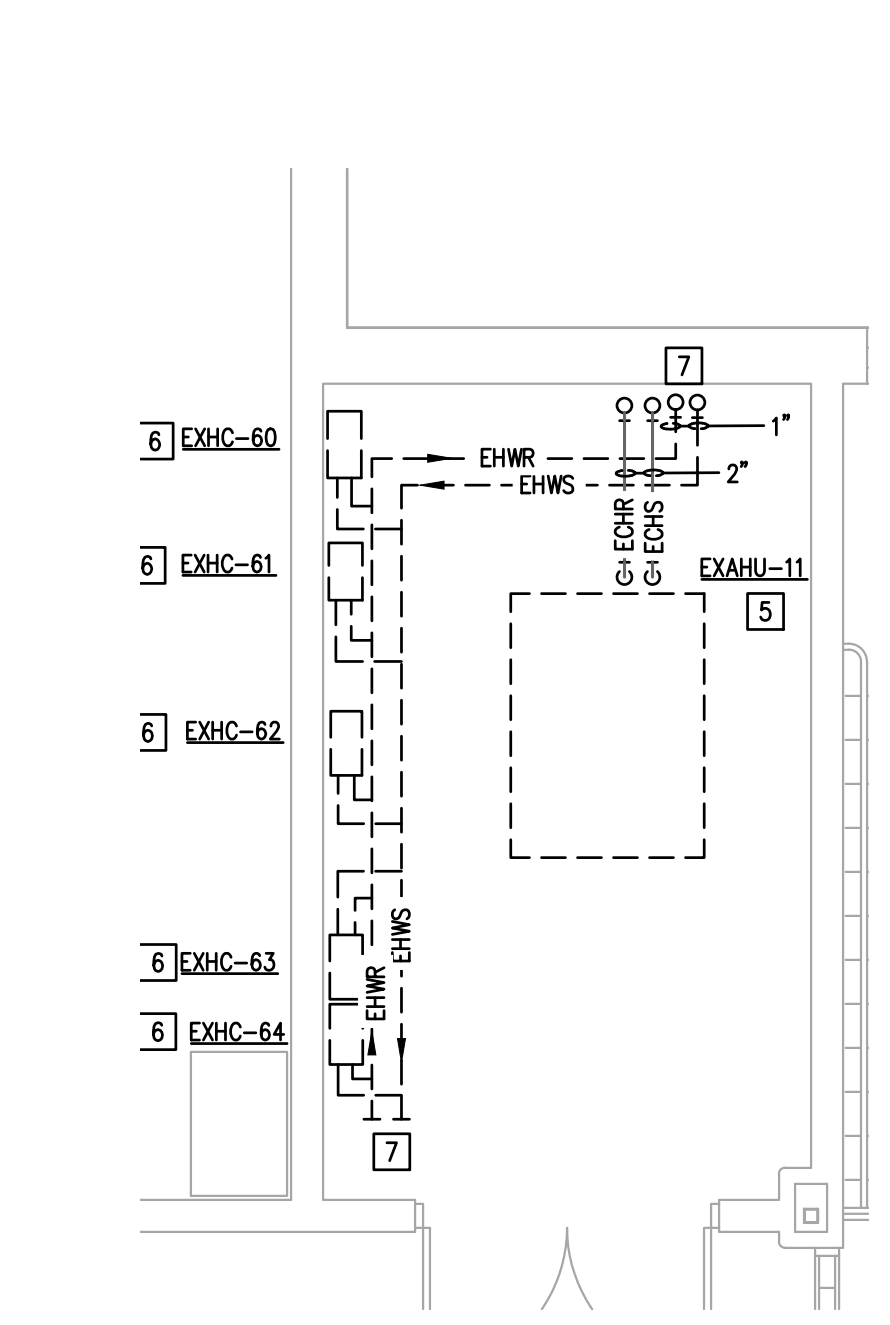
7 LEVEL 2C DEMO EXAHU-11
MD3.11 1/4" = 1'-0"



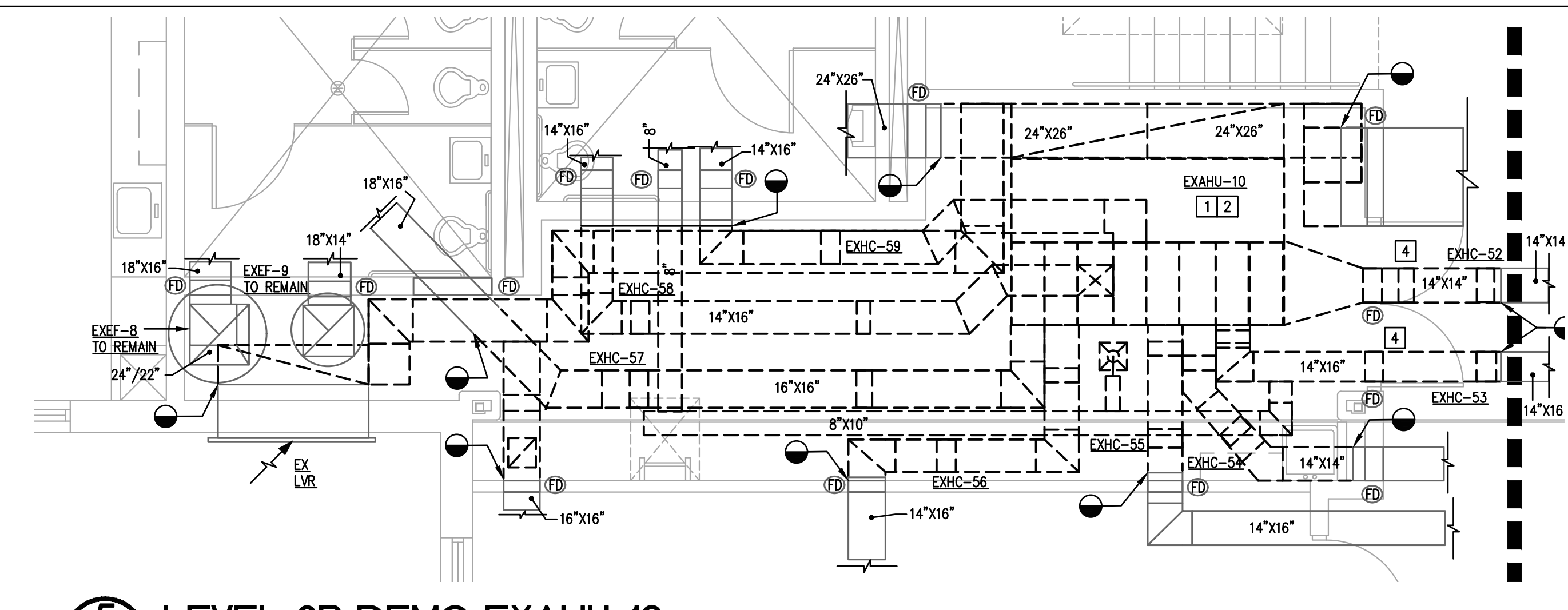
3 LEVEL 2B DEMO EXAHU-9
MD3.11 1/4" = 1'-0"



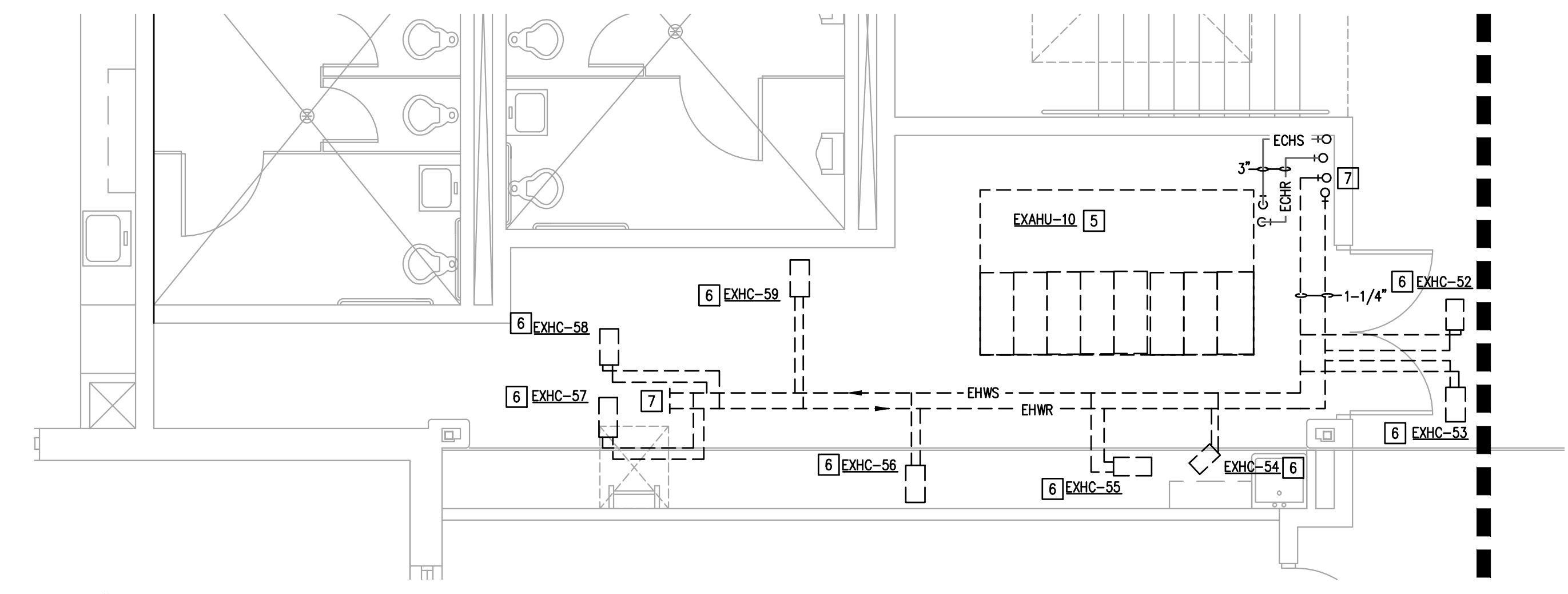
4 LEVEL 2B DEMO HYDRONIC PIPING EXAHU-9
MD3.11 1/4" = 1'-0"



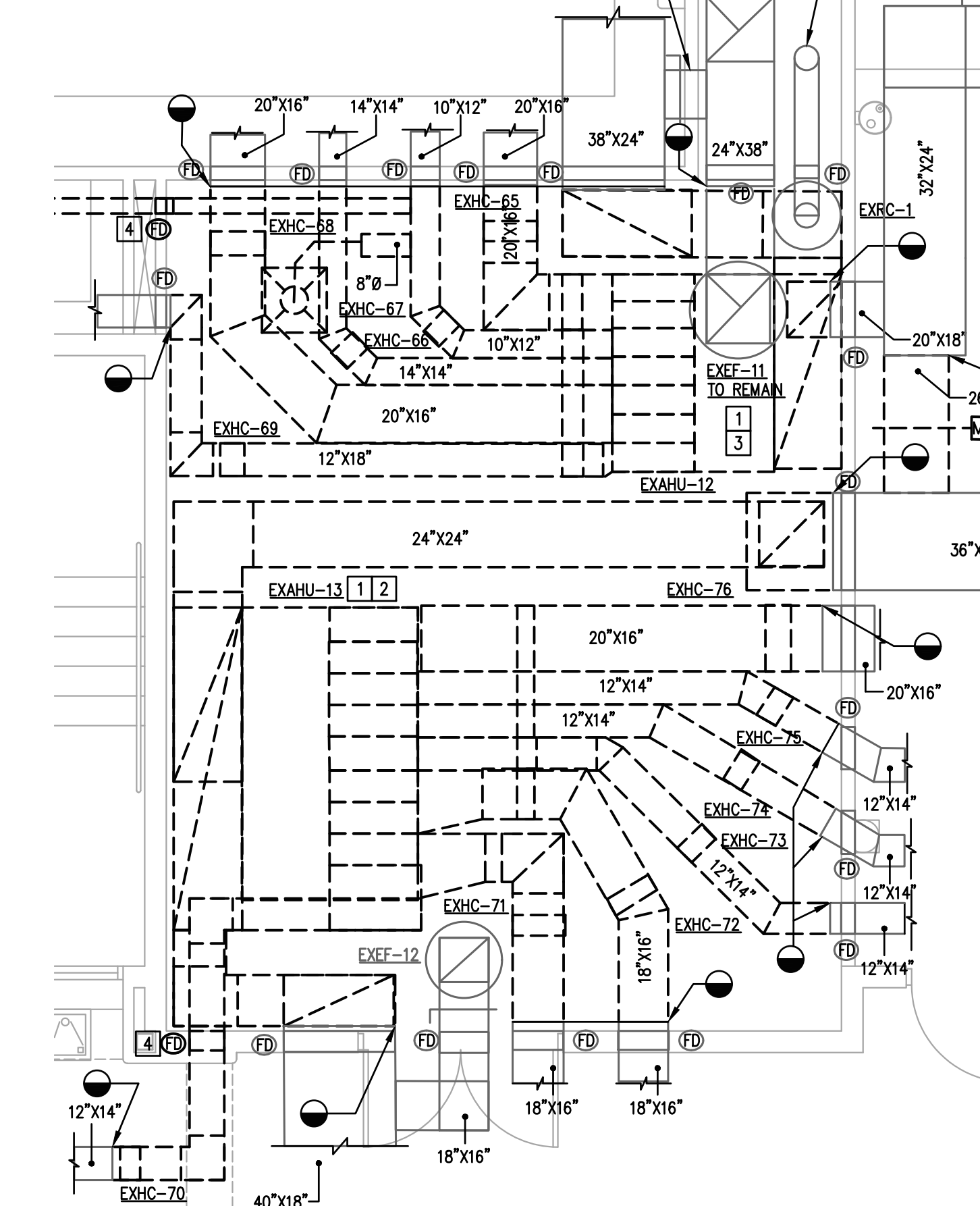
8 LEVEL 2C DEMO HYDRONIC PIPING EXAHU-11
MD3.11 1/4" = 1'-0"



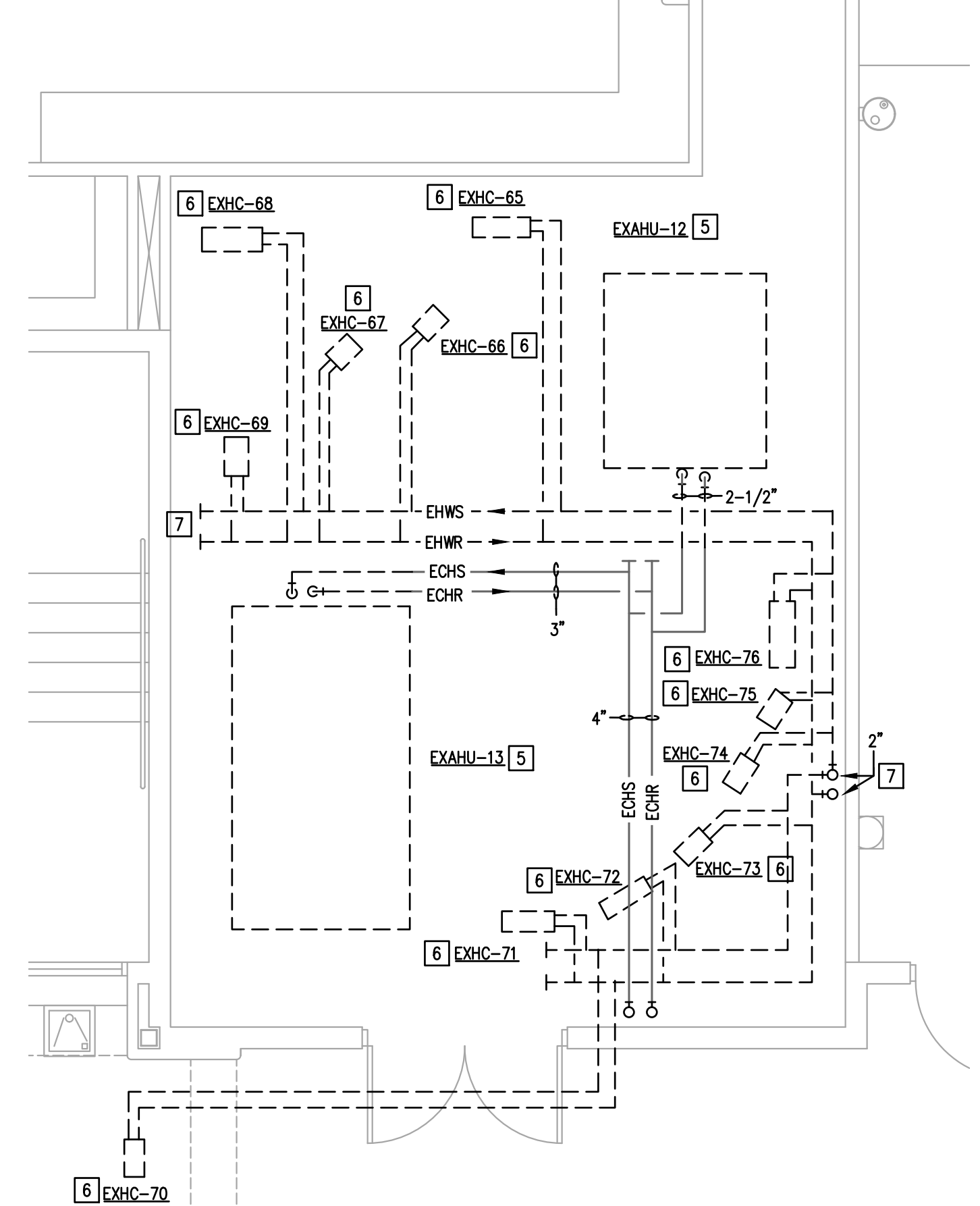
5 LEVEL 2B DEMO EXAHU-10
MD3.11 1/4" = 1'-0"



6 LEVEL 2B DEMO HYDRONIC PIPING EXAHU-10
MD3.11 1/4" = 1'-0"



9 LEVEL 2D DEMO EXAHU-12 AND EXAHU-13
MD3.11 1/4" = 1'-0"



10 LEVEL 2 DEMO HYDRONIC PIPING EXAHU-12 AND EXAHU-13
MD3.11 1/4" = 1'-0"

MECHANICAL DEMO GENERAL NOTES:

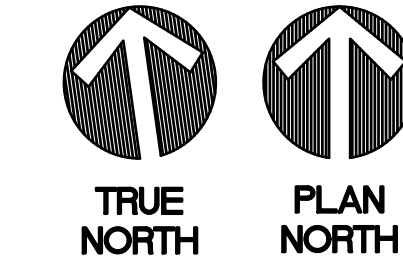
- A. IT IS THE CONTRACTOR'S RESPONSIBILITY TO HAVE VERIFIED EXISTING JOBSITE CONDITIONS DURING THE BIDDING PERIOD, SO THEY HAVE OBTAINED THE SCOPE OF THE MECHANICAL DEMOLITION WORK INVOLVED AS A RESULT OF MODIFICATIONS TO THE EXISTING STRUCTURE. THE SCOPE OF WORK SHALL INCLUDE MATERIALS AND DUCTWORK CONSISTING OF DEVICES, EQUIPMENT, OR APPARATUS WHICH MAY BE REROUTED, RELOCATED, OR REMOVED EITHER TEMPORARILY OR PERMANENTLY, OR WHICH MUST BE REROUTED OR REMOVED EITHER ACCOMPLISHED. NOT ALL EXISTING CONDITIONS ARE NECESSARILY INDICATED ON DRAWINGS, CONTRACTOR SHALL DEMOLISH ONLY WHAT IS INDICATED TO BE DEMOLISHED ON DRAWINGS.
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MECHANICAL DEMOLITION KEY NOTES: []

1. EXISTING AIR HANDLING UNIT TO BE REMOVED IN ITS ENTIRETY. REMOVE THE SUPPLY, RETURN (WHERE APPLICABLE), AND OUTSIDE AIR DUCT AS INDICATED. REMOVE EXISTING BUILDING AUTOMATION SENSORS.
2. HOUSE KEEPING PAD SHALL REMAIN AND BE MODIFIED AND NECESSARY TO ACCOMMODATE THE NEW AIR HANDLING UNIT FOOTPRINT. COORDINATE WITH NEW WORK REQUIREMENTS. FIELD VERIFY EXISTING CONDITIONS.
3. REMOVE EXISTING HOUSE KEEPING PAD.
4. REMOVE EXISTING FIRE DAMPER AS INDICATED. PROVIDE NEW FIRE DAMPER AND SEAL WALL PENETRATION IN ORDER TO MAINTAIN EXISTING FIRE RATING. COORDINATE WITH NEW WORK REQUIREMENTS AND EXISTING FLOOR DRAINS. FIELD VERIFY EXISTING CONDITIONS.
5. REMOVE EXISTING CHILLED WATER CONNECTION TO THE CLOSEST ISOLATION VALVE.
6. EXISTING DUCT MOUNTED HOT WATER COIL TO BE REMOVED IN ITS ENTIRETY.
7. REMOVE EXISTING HWS/R LINES INCLUSIVE OF MAINS, BRANCHES, RISERS, VALVES, ACCESSORIES, ETC. AS INDICATED. SEAL WALL PENETRATION IN ORDER TO MAINTAIN EXISTING FIRE RATING.
8. REMOVE EXISTING REFRIGERANT PIPING BETWEEN CONDENSING UNIT AND AHU. PIPING IN WALLS SHALL BE CAPPED AND ABANDONED. SEAL WALL PENETRATION IN ORDER TO MAINTAIN EXISTING FIRE RATING.
9. REMOVE EXISTING CONTROL DAMPER AND ACTUATOR. COORDINATE WITH NEW WORK REQUIREMENTS. FIELD VERIFY EXISTING CONDITIONS.

LEGEND:

- EXISTING TO BE DEMOLISHED
- EXISTING TO REMAIN



DBR
9900 Richmond Avenue, South Building, Suite 300
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713.914.0888 p 713.914.0888 f
TBPE Firm Registration No. 2234
DBR Project Number 218007.002

DBR
210.546.0200 v 210.546.0201 f
9601 McAllister Freeway, Suite 410
San Antonio, Texas 78216
TBPE Firm Registration No. 2234

| REVISION No. | DATE | DESCRIPTION |
|--------------|-----------|-------------|
| 01 | 3/23/2022 | ADDENDUM #1 |

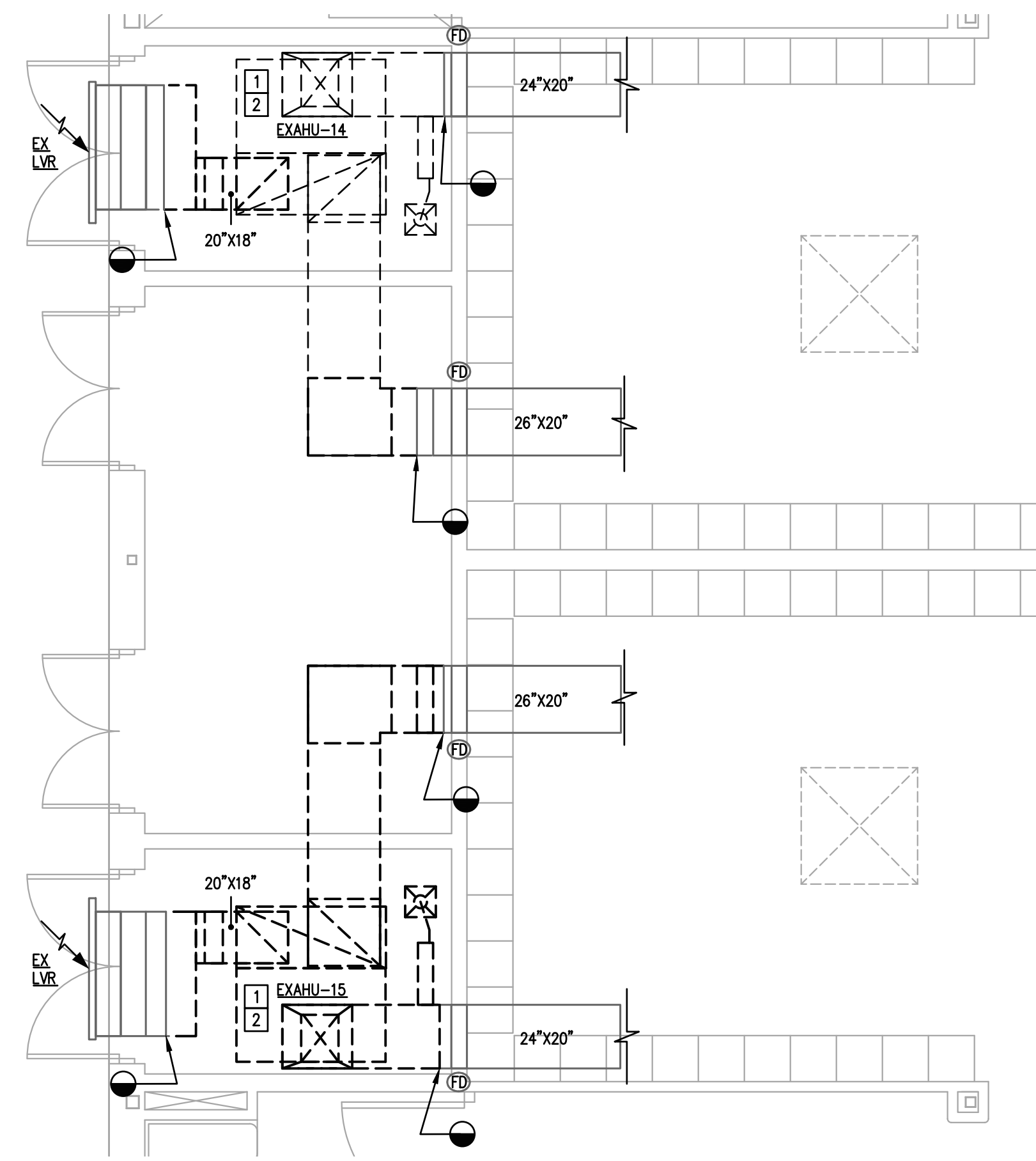


EDINBURG CONSOLIDATED INDEPENDENT SCHOOL DISTRICT
MEMORIAL MS - HVAC IMPROVEMENTS
3105 N DOOLITTLE RD, EDINBURG, TX 78542

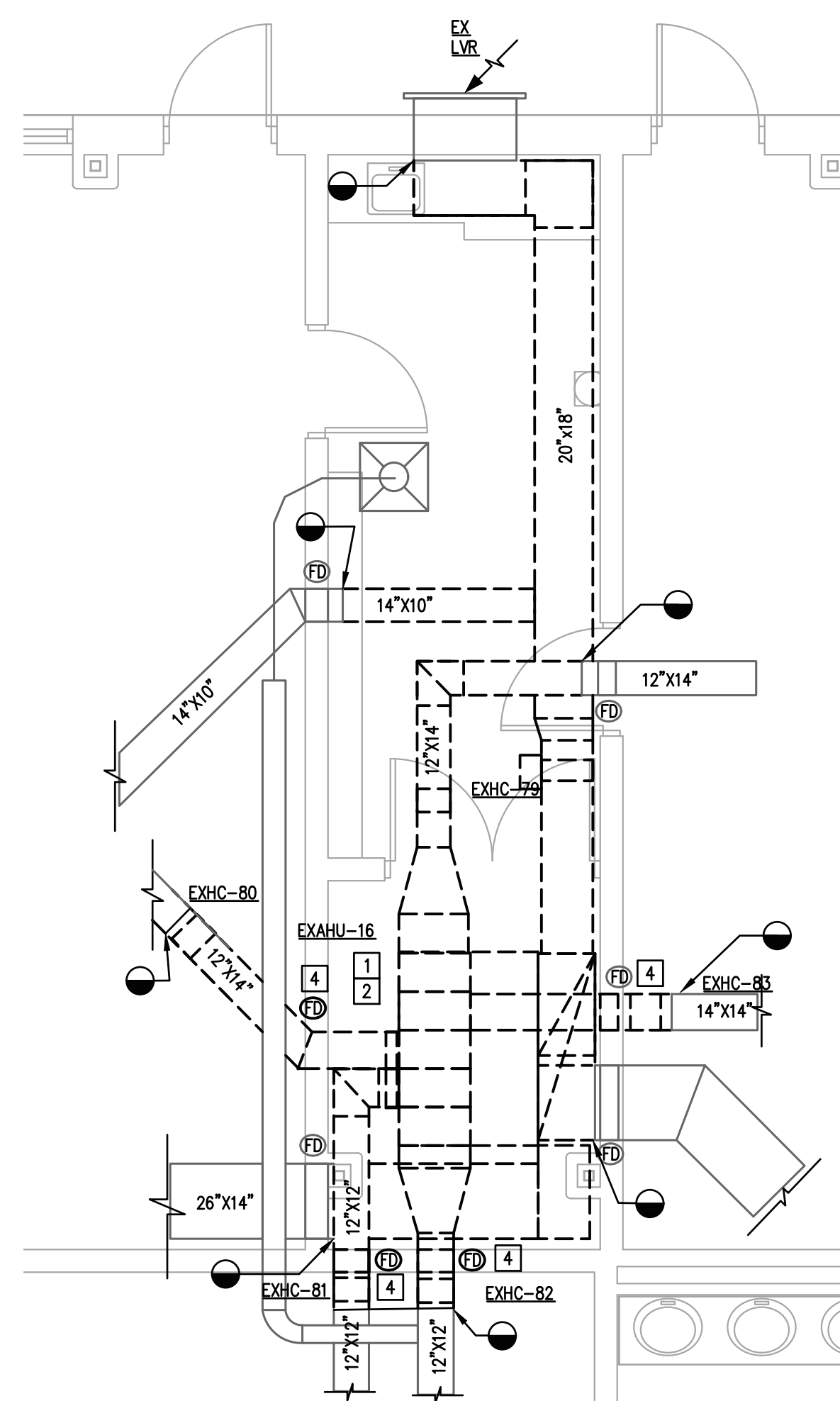
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| DATE: | 3/23/2022 |
| DRAWN BY: | DBR |
| CHECKED BY: | DBR |
| PROJECT NUMBER: | 218007.002 |
| SHEET TITLE: | ENLARGED MECHANICAL DEMO PLAN |

SHEET NUMBER:
MD3.11

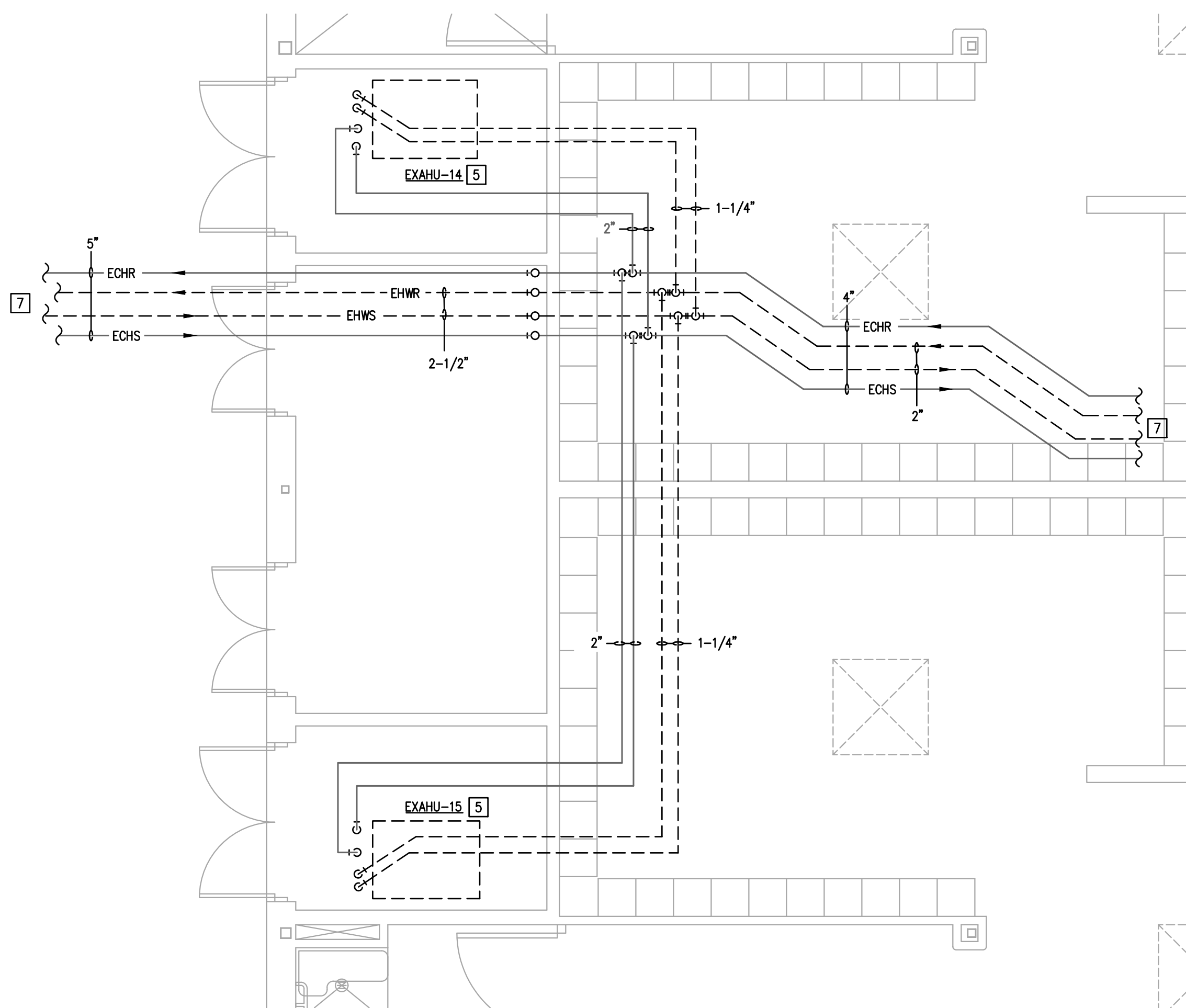
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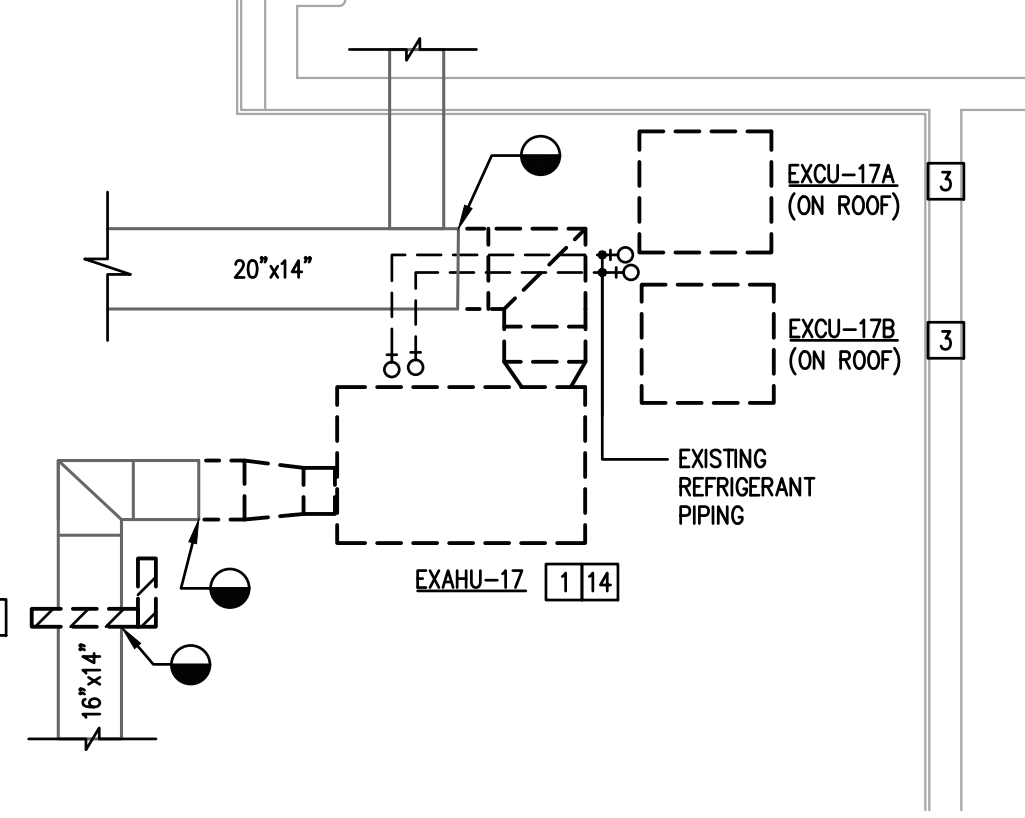
1 LEVEL 1F DEMO EXAHU-14 AND EXAHU-15
MD3.12 1/4" = 1'-0"



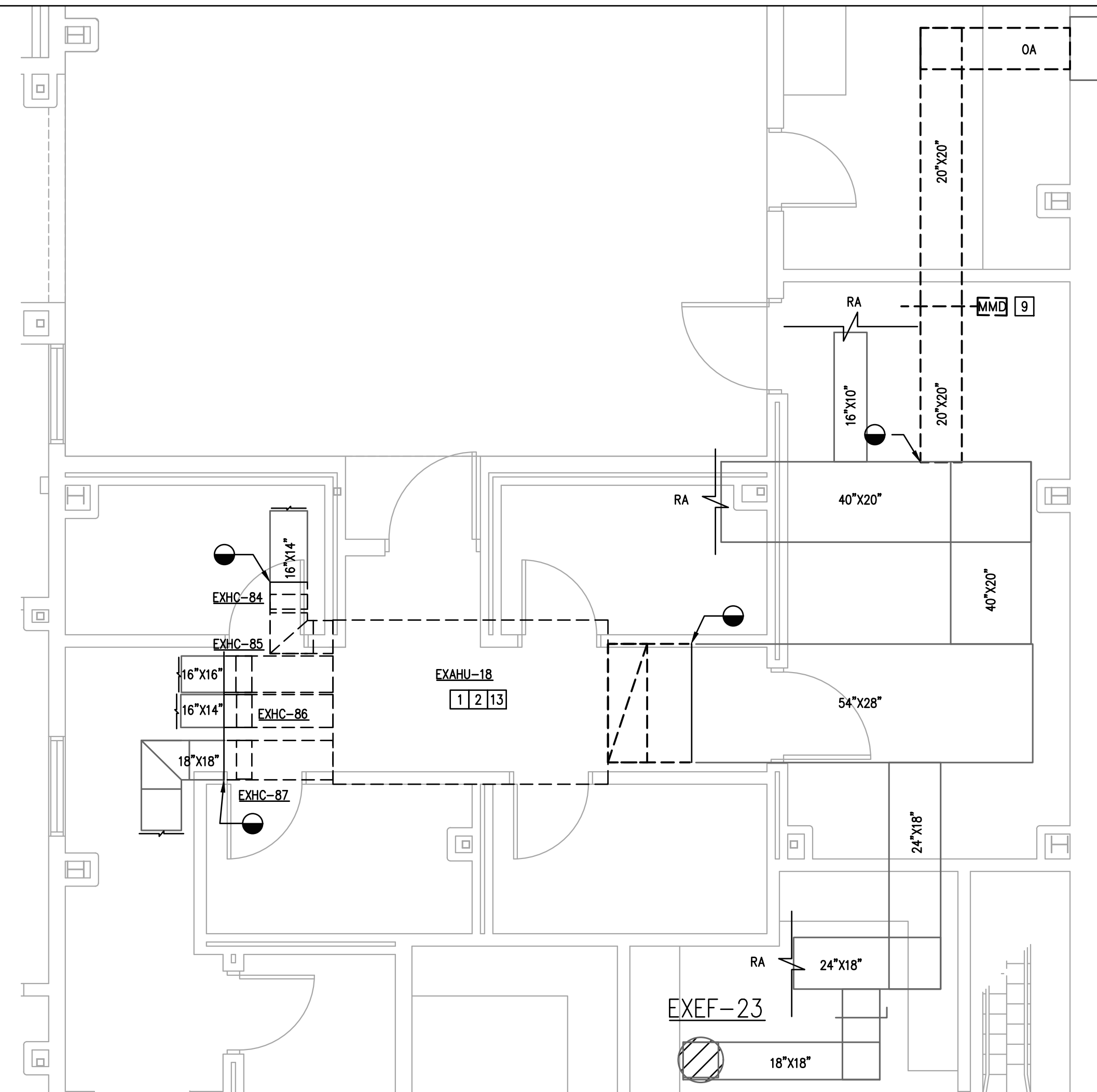
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MD3.12 1/4" = 1'-0"



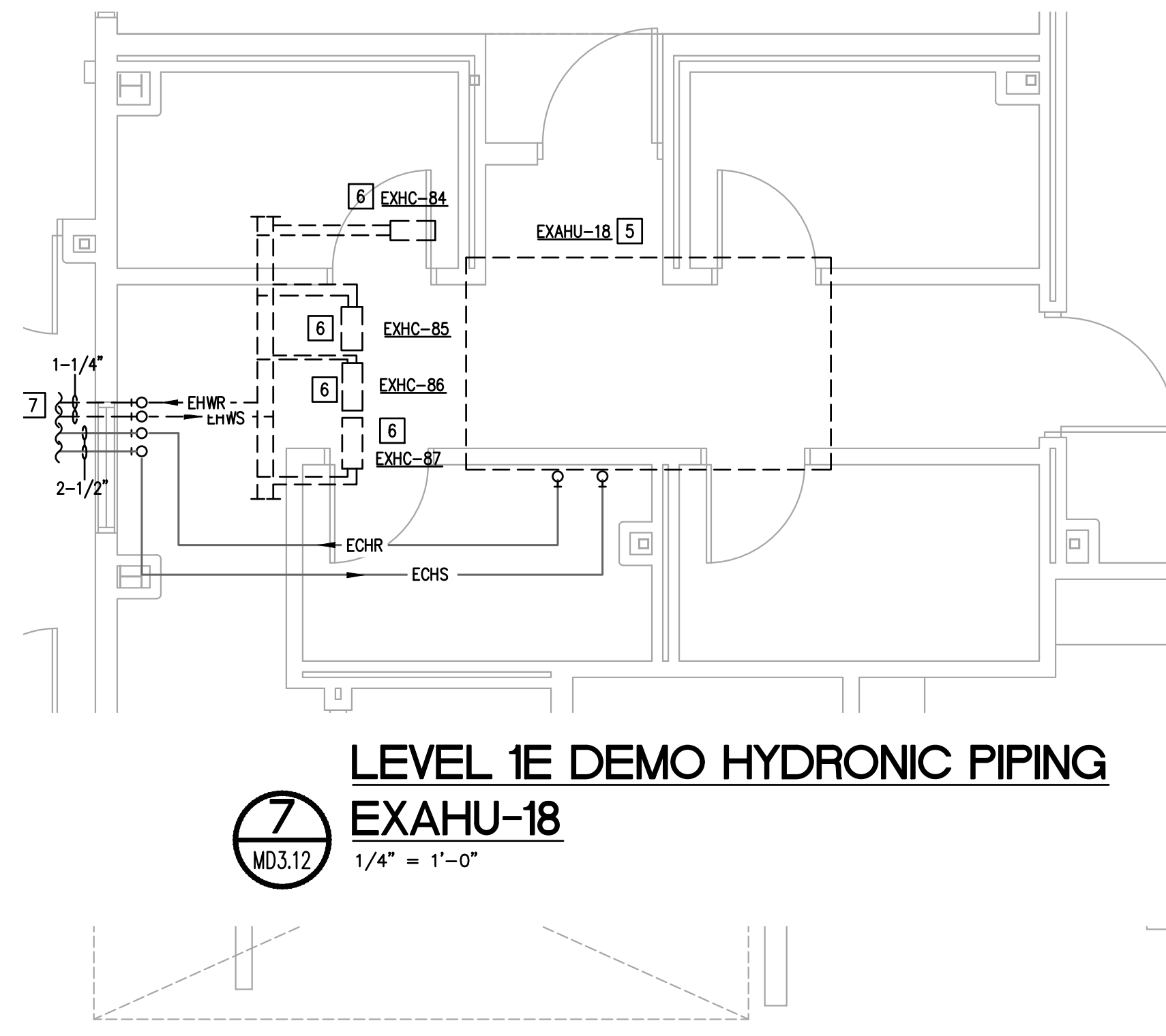
2 LEVEL 1 DEMO HYDRONIC PIPING EXAHU-14 AND EXAHU-15
MD3.12 1/4" = 1'-0"



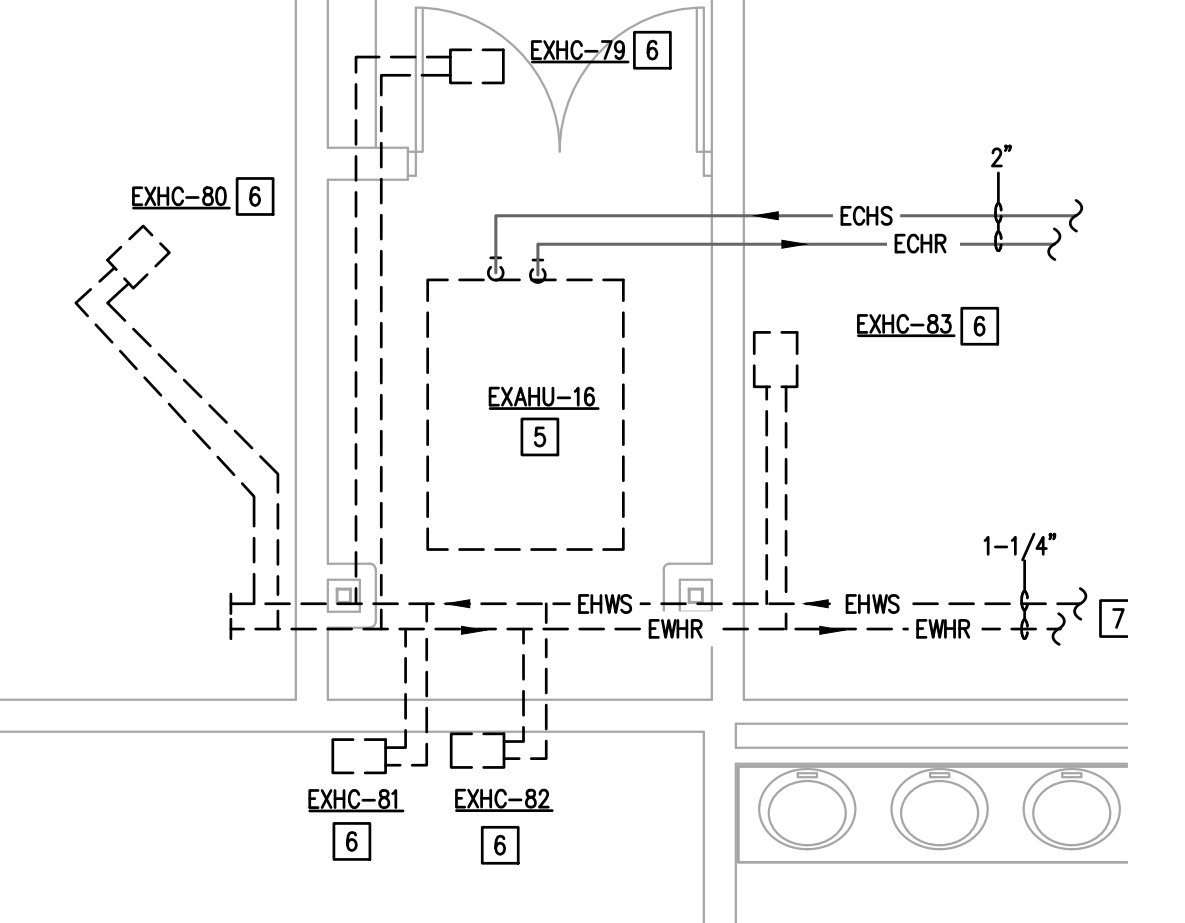
3 LEVEL 1E DEMO EXAHU-17
MD3.12 1/4" = 1'-0"



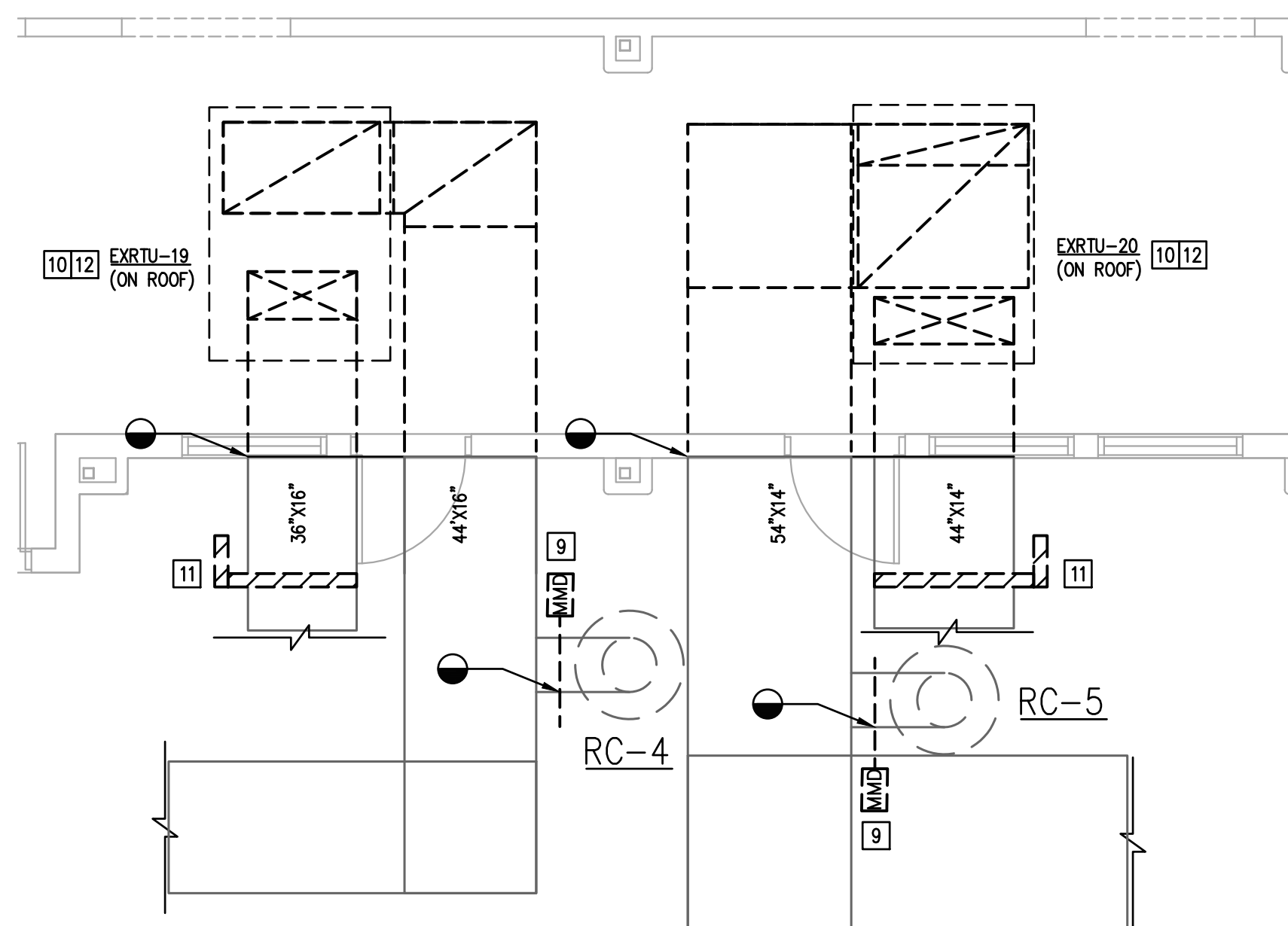
6 LEVEL 1E DEMO EXAHU-18
MD3.12 1/4" = 1'-0"



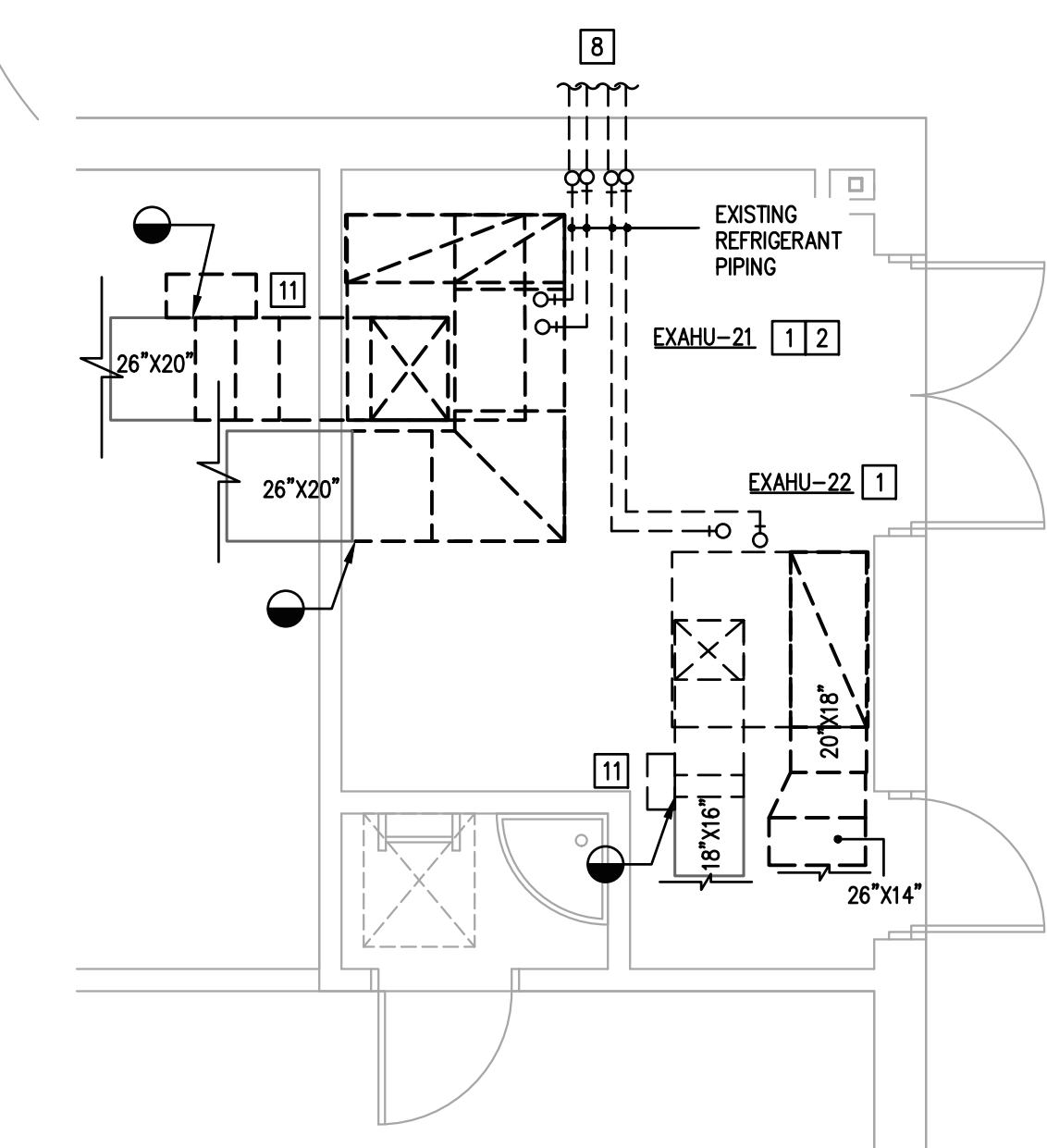
7 LEVEL 1E DEMO HYDRONIC PIPING EXAHU-18
MD3.12 1/4" = 1'-0"



5 LEVEL 1E DEMO HYDRONIC PIPING EXAHU-16
MD3.12 1/4" = 1'-0"



8 LEVEL 1G DEMO EXRTU-19 AND EXRTU-20
MD3.12 1/4" = 1'-0"



9 LEVEL 1G DEMO EXAHU-21 AND EXAHU-22
MD3.12 1/4" = 1'-0"

MECHANICAL DEMO GENERAL NOTES:

- A. IT IS THE CONTRACTOR'S RESPONSIBILITY TO HAVE VERIFIED EXISTING JOBSITE CONDITIONS DURING THE BIDDING PERIOD, SO THEY HAVE OBTAINED THE SCOPE OF THE MECHANICAL DEMOLITION WORK INVOLVED AS A RESULT OF MODIFICATIONS TO THE EXISTING STRUCTURE. THE SCOPE OF WORK SHALL INCLUDE MATERIALS AND DUCTWORK CONSISTING OF DEVICES, EQUIPMENT OR APPARATUS WHICH MAY BE REROUTED, RELOCATED, OR REMOVED EITHER TEMPORARILY OR PERMANENTLY, OR WHICH MUST BE REROUTED OR REMOVED EITHER ACCOMPLISHED. NOT ALL EXISTING CONDITIONS ARE NECESSARILY INDICATED ON DRAWINGS, CONTRACTOR SHALL DEMOLISH ONLY WHAT IS INDICATED TO BE DEMOLISHED ON DRAWINGS.
- B. CONTRACTOR SHALL COORDINATE WITH OWNER FOR ALL EQUIPMENT BEING REMOVED. OWNER SHALL RESERVE THE RIGHT TO CLAIM ALL EQUIPMENT, DUCTWORK, AND AIR DEVICES REMOVED DURING DEMOLITION.
- C. CONTRACTOR TO REPORT ANY DAMAGED EQUIPMENT THAT IS SHOWN AS EXISTING TO REMAIN TO THE OWNER PRIOR TO STARTING ALL WORK. ALL EQUIPMENT FOUND TO BE DAMAGED AT THE TIME OF SUBSTANTIAL COMPLETION, THAT HAD NOT BEEN REPORTED PRIOR TO CONSTRUCTION, CONTRACTOR TO REPAIR AT THEIR OWN COST.
- D. ALL REMOVED EQUIPMENT WITH ACCESS TO DUCTWORK, SHAFTS, OR PIPING, SHALL HAVE ALL CONNECTIONS TO THESE MATERIAL CLEANED, WHERE THE MATERIALS ARE REUSED. FOR EXAMPLE, EXHAUST SHAFTS THAT ARE SCHEDULED FOR REUSE AND SHALL BE CLEANED TO THE FULLEST EXTENT POSSIBLE. NOTIFY ARCHITECT/ENGINEER TEAM OF ANY DEFICIENCIES FOUND UPON REMOVAL OF HVAC SYSTEM, THAT ARE NOT INDICATED IN THESE PLANS AND SPECIFICATIONS.
- E. ALL EQUIPMENT, DUCTWORK, CONTROLS AND ACCESSORIES FOUND TO BE ABANDONED SHALL BE REMOVED.
- F. ALL EXISTING DUCTWORK AND EQUIPMENT TO BE REUSED MUST BE CLEANED, PAINTED, AND ALL DAMAGED PARTS MUST BE REPAIRED OR REPLACED.
- G. CONTRACTOR SHALL COORDINATE CONSTRUCTION WITH BUILDING FACILITY AS TO NOT DISTURB OPERATING HOURS.
- H. CONTRACTOR SHALL COORDINATE CLEARANCES WITH ALL APPLICABLE TRADES TO ENSURE THAT ALL NECESSARY CODES ARE IN COMPLIANCE.

MECHANICAL DEMOLITION KEY NOTES:

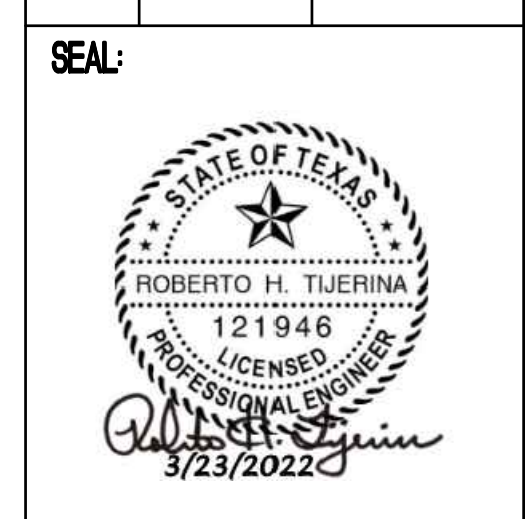
1. EXISTING AIR HANDLING UNIT TO BE REMOVED IN ITS ENTIRETY. REMOVE THE SUPPLY, RETURN (WHERE APPLICABLE), AND OUTSIDE AIR DUCT AS INDICATED. REMOVE EXISTING BUILDING AUTOMATION SENSORS.
2. HOUSE KEEPING PAD SHALL REMAIN AND BE MODIFIED AND NECESSARY TO ACCOMMODATE THE NEW AIR HANDLING UNIT FOOTPRINT. COORDINATE WITH NEW WORK REQUIREMENTS AND EXISTING FLOOR DRAINS. FIELD VERIFY EXISTING CONDITIONS.
3. CONTRACTOR SHALL DEMOLISH EXISTING CONDENSING UNIT, ASSOCIATED REFRIGERANT PIPING BETWEEN CONDENSING UNIT AND AHU, AND ROOF CURB. PATCH AND REPAIR ROOF TO MATCH EXISTING. COORDINATE WITH NEW WORK REQUIREMENTS.
4. REMOVE EXISTING FIRE DAMPER AS INDICATED. PROVIDE NEW FIRE DAMPER AND SEAL WALL PENETRATION IN ORDER TO MAINTAIN EXISTING FIRE RATING. COORDINATE WITH NEW WORK REQUIREMENTS. FIELD VERIFY EXISTING CONDITIONS.
5. REMOVE EXISTING CHILLED WATER PIPING AS INDICATED.
6. EXISTING DUCT MOUNTED HOT WATER COIL TO BE REMOVED IN ITS ENTIRETY.
7. REMOVE EXISTING HWS/R LINES INCLUSIVE OF MAINS, BRANCHES, RISERS, VALVES, ACCESSORIES, ETC. AS INDICATED. SEAL WALL PENETRATION IN ORDER TO MAINTAIN EXISTING FIRE RATING.
8. REMOVE EXISTING REFRIGERANT PIPING BETWEEN CONDENSING UNIT AND AHU. PIPING IN WALLS SHALL BE CAPPED AND ABANDONED. SEAL WALL PENETRATION IN ORDER TO MAINTAIN EXISTING FIRE RATING.
9. REMOVE EXISTING CONTROL DAMPER AND ACTUATOR. COORDINATE WITH NEW WORK REQUIREMENTS. FIELD VERIFY EXISTING CONDITIONS.
10. REMOVE EXISTING ROOFTOP UNIT AND ASSOCIATED CONDENSATE PIPING. REMOVE EXISTING ROOF CURB TO DECK. REMOVE DUCTWORK AS INDICATED.
11. REMOVE EXISTING ELECTRIC DUCT HEATER.
12. EQUIPMENT LOCATED ON ROOF.
13. EQUIPMENT LOCATED ON MEZZANINE.
14. EQUIPMENT SUSPENDED ABOVE CEILING.

LEGEND:

- EXISTING TO BE DEMOLISHED
- EXISTING TO REMAIN



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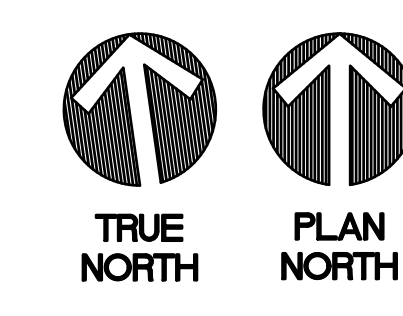


EDINBURG CONSOLIDATED INDEPENDENT SCHOOL DISTRICT
MEMORIAL MS - HVAC IMPROVEMENTS
 3105 N DOOLITTLE RD, EDINBURG, TX 78542

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 CHECKED BY: DBR
 PROJECT NUMBER: 218007.002
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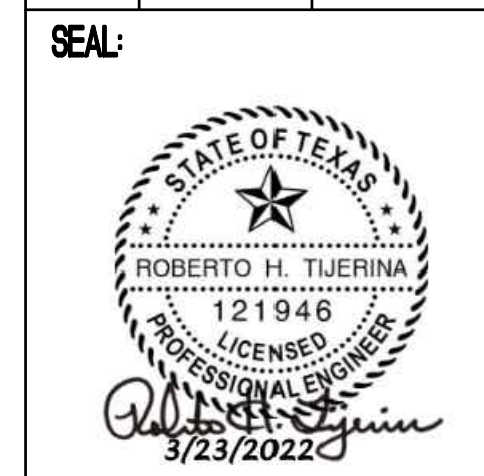
ENLARGED MECHANICAL DEMO PLAN

SHEET NUMBER:
MD3.12

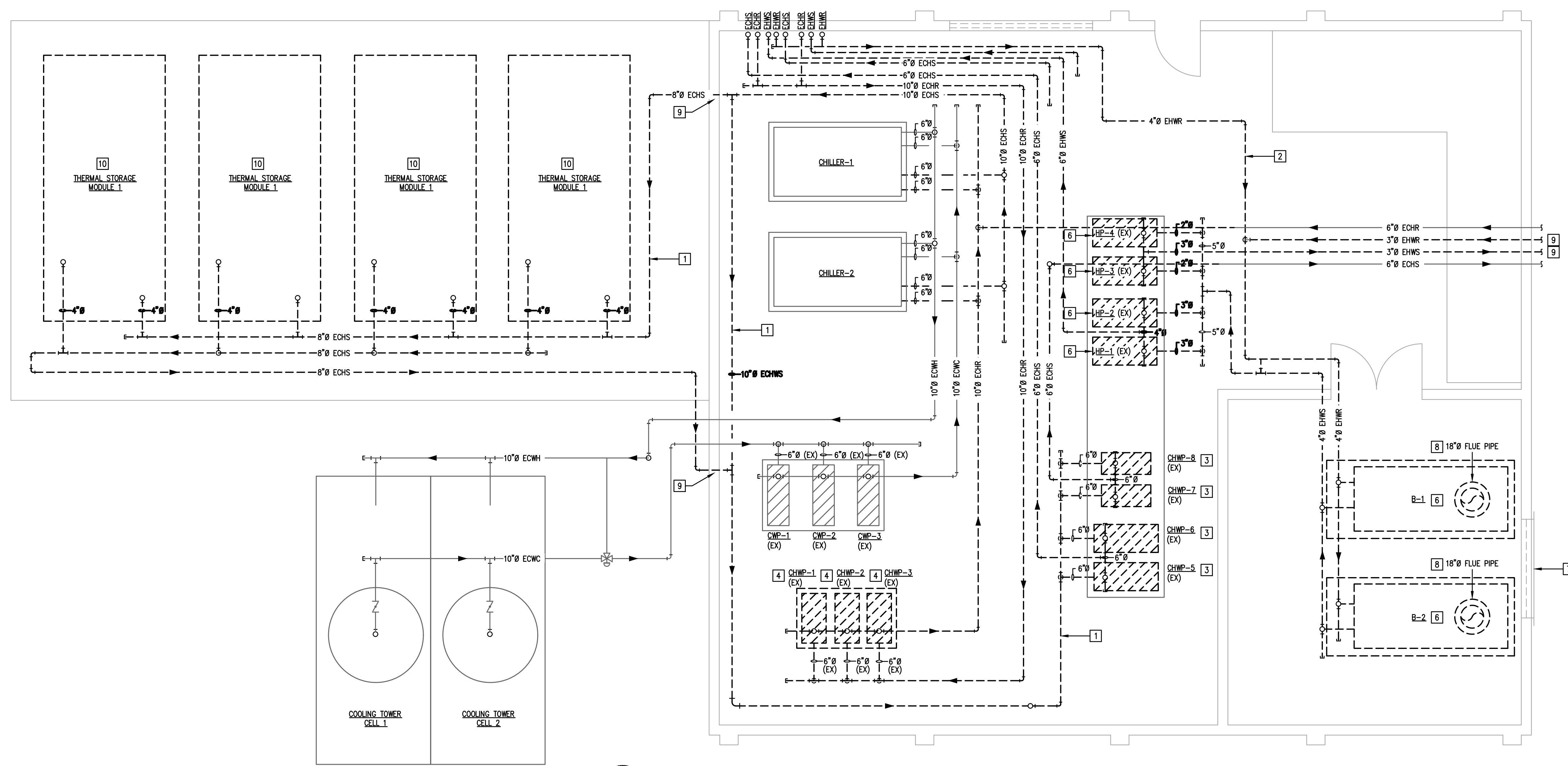


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 3105 N DOOLITTLE RD, EDINBURG, TX 78542



1 LEVEL 1H DEMO CHILLED WATER PLANT
1/4" = 1'-0"

MECHANICAL DEMO GENERAL NOTES:

- IT IS THE CONTRACTOR'S RESPONSIBILITY TO HAVE VERIFIED EXISTING JOBSITE CONDITIONS DURING THE BIDDING PERIOD, SO THEY HAVE OBTAINED THE SCOPE OF THE MECHANICAL DEMOLITION WORK INVOLVED AS A RESULT OF MODIFICATIONS TO THE EXISTING STRUCTURE. THE SCOPE OF WORK SHALL INCLUDE MATERIALS AND DUCTWORK CONSISTING OF DEVICES, EQUIPMENT, OR APPARATUS WHICH MAY BE REROUTED, RELOCATED, OR REMOVED EITHER TEMPORARILY OR PERMANENTLY, OR WHICH MUST BE REROUTED OR REMOVED OTHER ACCOMPLISHED. NOT ALL EXISTING CONDITIONS ARE NECESSARILY INDICATED ON DRAWINGS. CONTRACTOR SHALL DEMOLISH ONLY WHAT IS INDICATED TO BE DEMOLISHED ON DRAWINGS.
- CONTRACTOR SHALL COORDINATE WITH OWNER FOR ALL EQUIPMENT BEING REMOVED. OWNER SHALL RESERVE THE RIGHT TO CLAM ALL EQUIPMENT, DUCTWORK, AND AIR DEVICES REMOVED DURING DEMOLITION.
- CONTRACTOR TO REPORT ANY DAMAGED EQUIPMENT THAT IS SHOWN AS EXISTING TO REMAIN TO THE OWNER PRIOR TO STARTING ALL WORK. ALL EQUIPMENT FOUND TO BE DAMAGED AT THE TIME OF SUBSTANTIAL COMPLETION, THAT HAD NOT BEEN REPORTED PRIOR TO CONSTRUCTION, CONTRACTOR TO REPAIR AT THEIR OWN COST.
- ALL EQUIPMENT, DUCTWORK, CONTROLS AND ACCESSORIES FOUND TO BE ABANDONED SHALL BE REMOVED.
- ALL EXISTING DUCTWORK AND EQUIPMENT TO BE REUSED MUST BE CLEANED, PAINTED, AND ALL DAMAGED PARTS MUST BE REPAIRED OR REPLACED.
- CONTRACTOR SHALL COORDINATE CONSTRUCTION WITH BUILDING FACILITY AS TO NOT DISTURB OPERATING HOURS.
- CONTRACTOR SHALL COORDINATE CLEARANCES WITH ALL APPLICABLE TRADES TO ENSURE THAT ALL NECESSARY CODES ARE IN COMPLIANCE.

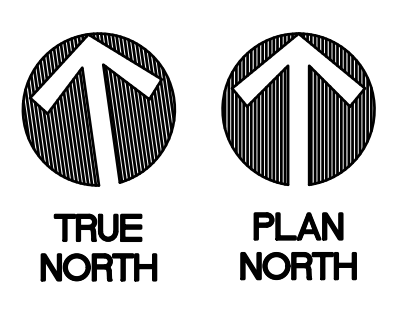
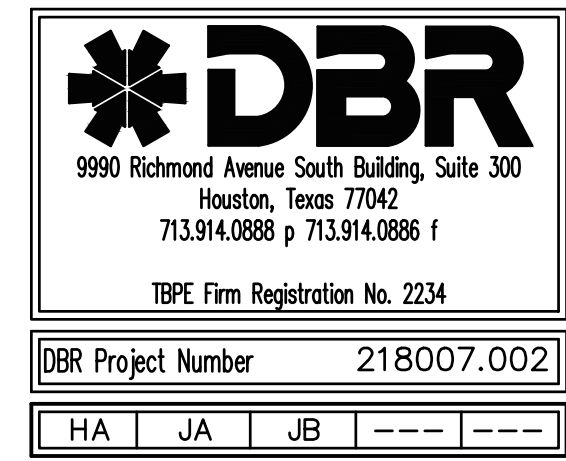
MECHANICAL DEMOLITION KEY NOTES: []

- CONTRACTOR SHALL REMOVE EXISTING CHILLED WATER PIPE INCLUSIVE OF MAINS, BRANCHES, RISERS, VALVES, ETC. AS INDICATED ON PLAN. COORDINATE EXTENT OF DEMOLITION WITH NEW WORK REQUIREMENTS. FIELD VERIFY EXISTING CONDITIONS.
- CONTRACTOR SHALL REMOVE EXISTING HOT WATER PIPE INCLUSIVE OF MAINS, BRANCHES, RISERS, VALVES, ETC. AS INDICATED ON PLAN. COORDINATE EXTENT OF DEMOLITION WITH NEW WORK REQUIREMENTS. FIELD VERIFY EXISTING CONDITIONS.
- CONTRACTOR SHALL DEMOLISH EXISTING CHILLED WATER PUMPS AS INDICATED. HOUSE KEEPING PAD SHALL REMAIN AND BE MODIFIED AS NECESSARY TO ACCOMMODATE NEW PUMPS AND EQUIPMENT. COORDINATE WITH NEW WORK REQUIREMENTS. FIELD VERIFY EXISTING CONDITIONS.
- CONTRACTOR SHALL DEMOLISH EXISTING CHILLED WATER PUMPS AND HOUSE KEEPING PAD AS INDICATED. COORDINATE WITH NEW WORK REQUIREMENTS. FIELD VERIFY EXISTING CONDITIONS.
- REMOVE EXISTING LOUVER AS INDICATED. PATCH AND REPAIR WALL AND BASE FINISH TO MATCH EXISTING ADJACENT SURFACES. FIELD VERIFY EXISTING CONDITIONS.
- CONTRACTOR SHALL DEMOLISH EXISTING BOILER 1, BOILER 2 AND ASSOCIATED HP-1 THRU HP-4 IN ITS ENTIRETY AND DISPOSE OF PROPERLY. CONTRACTOR SHALL DISCONNECT VENT, ELECTRICAL, WATER CONNECTIONS, GAS CONNECTION AND BUILDING AUTOMATION WIRING.
- REMOVE EXISTING LOUVER AS INDICATED. PATCH AND REPAIR WALL AND BASE FINISH TO MATCH EXISTING ADJACENT SURFACES. FIELD VERIFY EXISTING CONDITIONS.
- CONTRACTOR SHALL REMOVE FLUE PIPING, CAP ROOF CAP, AND MAKE WATERTIGHT.
- CONTRACTOR SHALL PATCH AND REPAIR WALL AND BASE FINISH TO MATCH EXISTING ADJACENT SURFACES. FIELD VERIFY EXISTING CONDITIONS.
- CONTRACTOR SHALL DEMOLISH EXISTING THERMAL STORAGE MODULES IN THEIR ENTIRETY AND DISPOSE OF PROPERLY.

LEGEND:

- EXISTING TO BE DEMOLISHED
- EXISTING TO REMAIN

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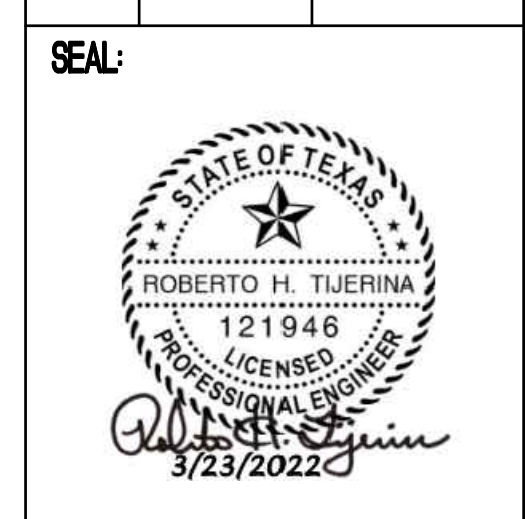
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TBPE Firm Registration No. 2234
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 SHEET TITLE: ENLARGED MECHANICAL DEMO PLAN
 SHEET NUMBER: MD3.13



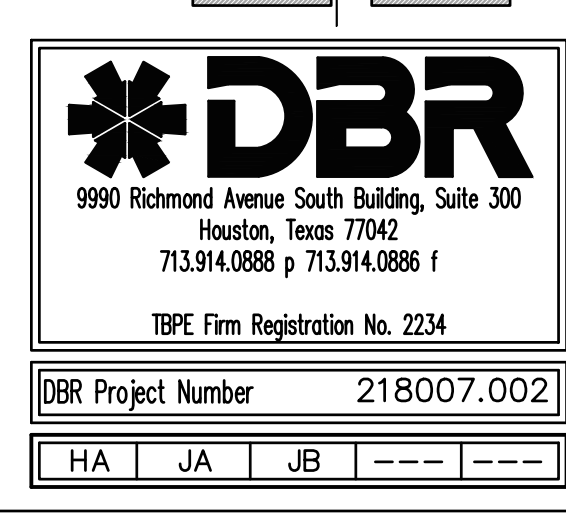
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TBPE Firm Registration No. 2234

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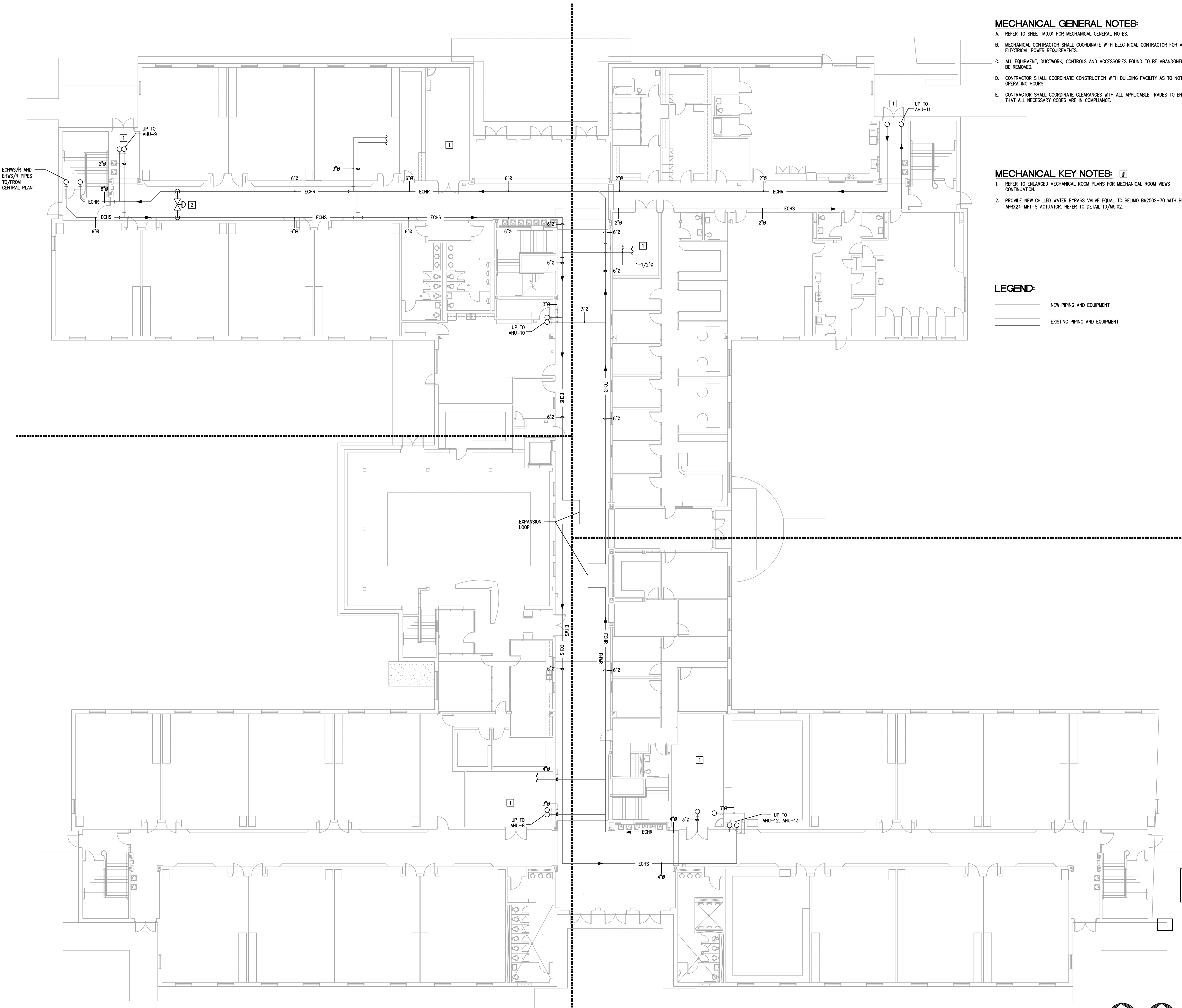
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| SHEET NUMBER: | M1.11 |



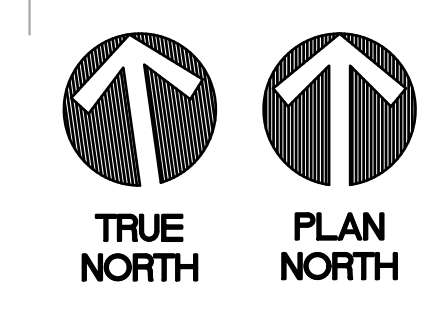
- MECHANICAL GENERAL NOTES:**
- REFER TO SHEET M0.01 FOR MECHANICAL GENERAL NOTES.
 - MECHANICAL CONTRACTOR SHALL COORDINATE WITH ELECTRICAL CONTRACTOR FOR ALL ELECTRICAL POWER REQUIREMENTS.
 - ALL EQUIPMENT, DUCTWORK, CONTROLS AND ACCESSORIES FOUND TO BE ABANDONED SHALL BE REMOVED.
 - CONTRACTOR SHALL COORDINATE CONSTRUCTION WITH BUILDING FACILITY AS TO NOT DISTURB OPERATING HOURS.
 - CONTRACTOR SHALL COORDINATE CLEARANCES WITH ALL APPLICABLE TRADES TO ENSURE THAT ALL NECESSARY CODES ARE IN COMPLIANCE.

- MECHANICAL KEY NOTES:**
- REFER TO ENLARGED MECHANICAL ROOM PLANS FOR MECHANICAL ROOM VIEWS CONTINUATION.
 - PROVIDE NEW CHILLED WATER BYPASS VALVE EQUAL TO BELIMO B62505-70 WITH BELIMO AFRX24-MFT-S ACTUATOR. REFER TO DETAIL 10/MS.02.

- LEGEND:**
- NEW PIPING AND EQUIPMENT
 - EXISTING PIPING AND EQUIPMENT

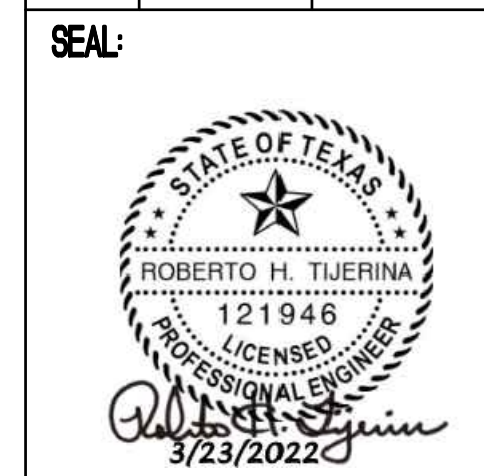


COMPOSITE LEVEL 1 MECHANICAL HYDRONIC PIPING PLAN
M1.11 3/32" = 1'-0"



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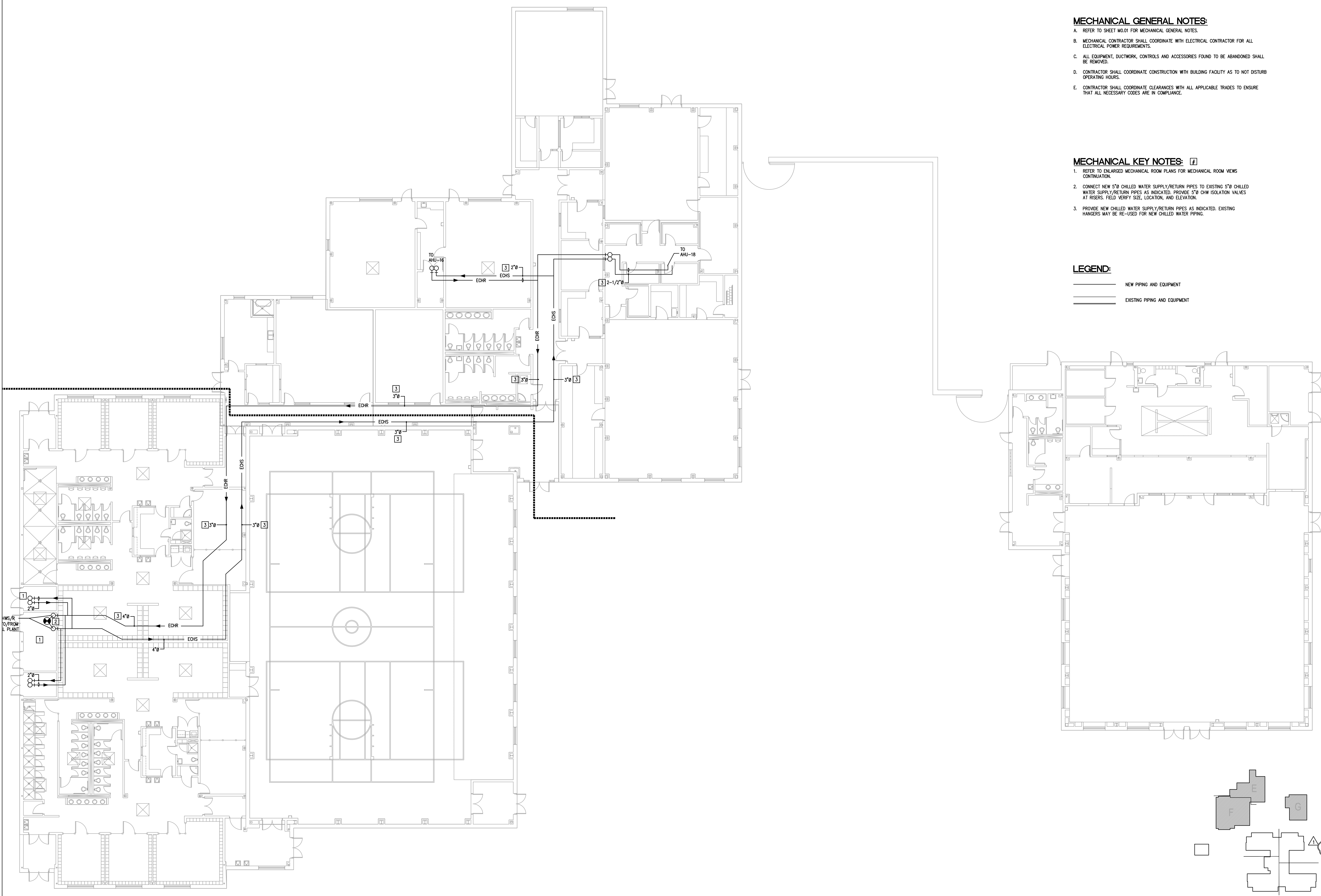
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- MECHANICAL GENERAL NOTES:**
- REFER TO SHEET M.01 FOR MECHANICAL GENERAL NOTES.
 - MECHANICAL CONTRACTOR SHALL COORDINATE WITH ELECTRICAL CONTRACTOR FOR ALL ELECTRICAL POWER REQUIREMENTS.
 - ALL EQUIPMENT, DUCTWORK, CONTROLS AND ACCESSORIES FOUND TO BE ABANDONED SHALL BE REMOVED.
 - CONTRACTOR SHALL COORDINATE CONSTRUCTION WITH BUILDING FACILITY AS TO NOT DISTURB OPERATING HOURS.
 - CONTRACTOR SHALL COORDINATE CLEARANCES WITH ALL APPLICABLE TRADES TO ENSURE THAT ALL NECESSARY CODES ARE IN COMPLIANCE.

- MECHANICAL KEY NOTES:**
- REFER TO ENLARGED MECHANICAL ROOM PLANS FOR MECHANICAL ROOM VIEWS CONTINUATION.
 - CONNECT NEW 5"Ø CHILLED WATER SUPPLY/RETURN PIPES TO EXISTING 5"Ø CHILLED WATER SUPPLY/RETURN PIPES AS INDICATED. PROVIDE 5"Ø CHW ISOLATION VALVES AT RISERS. FIELD VERIFY SIZE, LOCATION, AND ELEVATION.
 - PROVIDE NEW CHILLED WATER SUPPLY/RETURN PIPES AS INDICATED. EXISTING HANGERS MAY BE RE-USED FOR NEW CHILLED WATER PIPING.

- LEGEND:**
- NEW PIPING AND EQUIPMENT
 - EXISTING PIPING AND EQUIPMENT




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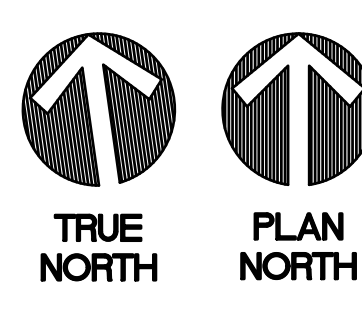
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LEVEL 1
MECHANICAL
HYDRONIC
PIPING PLAN

SHEET NUMBER:
M1.12



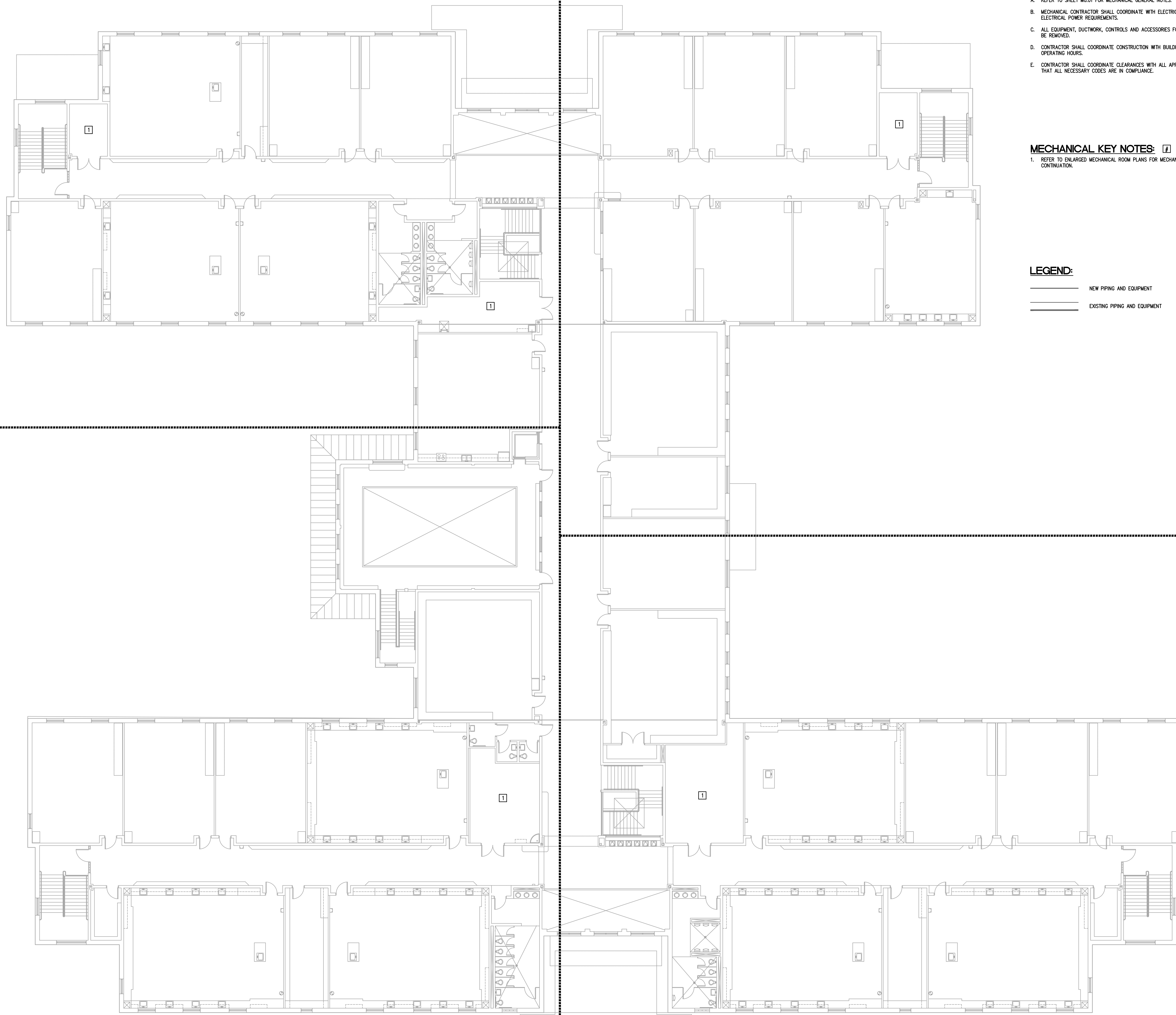
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1 COMPOSITE LEVEL 1 MECHANICAL HYDRONIC PIPING PLAN
1"=20'-0"

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**COMPOSITE LEVEL 2 MECHANICAL
 HYDRONIC PIPING PLAN**
 1
 M1.21 3/32" = 1'-0"

MECHANICAL GENERAL NOTES:

- A. REFER TO SHEET M0.01 FOR MECHANICAL GENERAL NOTES.
- B. MECHANICAL CONTRACTOR SHALL COORDINATE WITH ELECTRICAL CONTRACTOR FOR ALL ELECTRICAL POWER REQUIREMENTS.
- C. ALL EQUIPMENT, DUCTWORK, CONTROLS AND ACCESSORIES FOUND TO BE ABANDONED SHALL BE REMOVED.
- D. CONTRACTOR SHALL COORDINATE CONSTRUCTION WITH BUILDING FACILITY AS TO NOT DISTURB OPERATING HOURS.
- E. CONTRACTOR SHALL COORDINATE CLEARANCES WITH ALL APPLICABLE TRADES TO ENSURE THAT ALL NECESSARY CODES ARE IN COMPLIANCE.

MECHANICAL KEY NOTES: [1]

- 1. REFER TO ENLARGED MECHANICAL ROOM PLANS FOR MECHANICAL ROOM VIEWS CONTINUATION.

LEGEND:

- NEW PIPING AND EQUIPMENT
- - - EXISTING PIPING AND EQUIPMENT

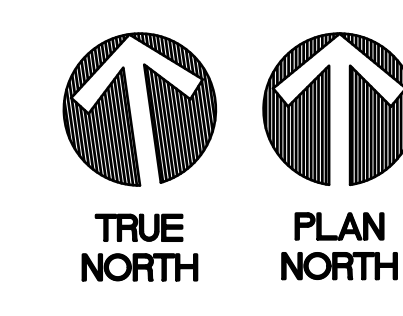
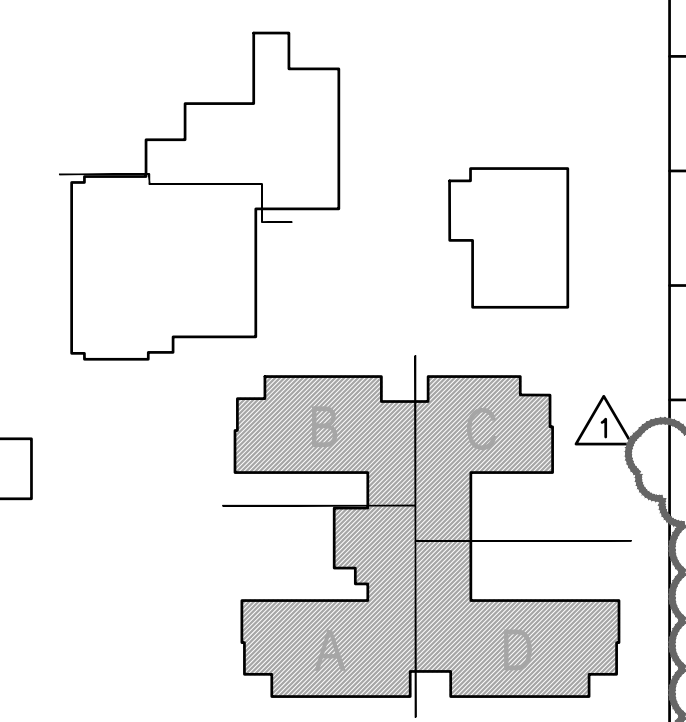


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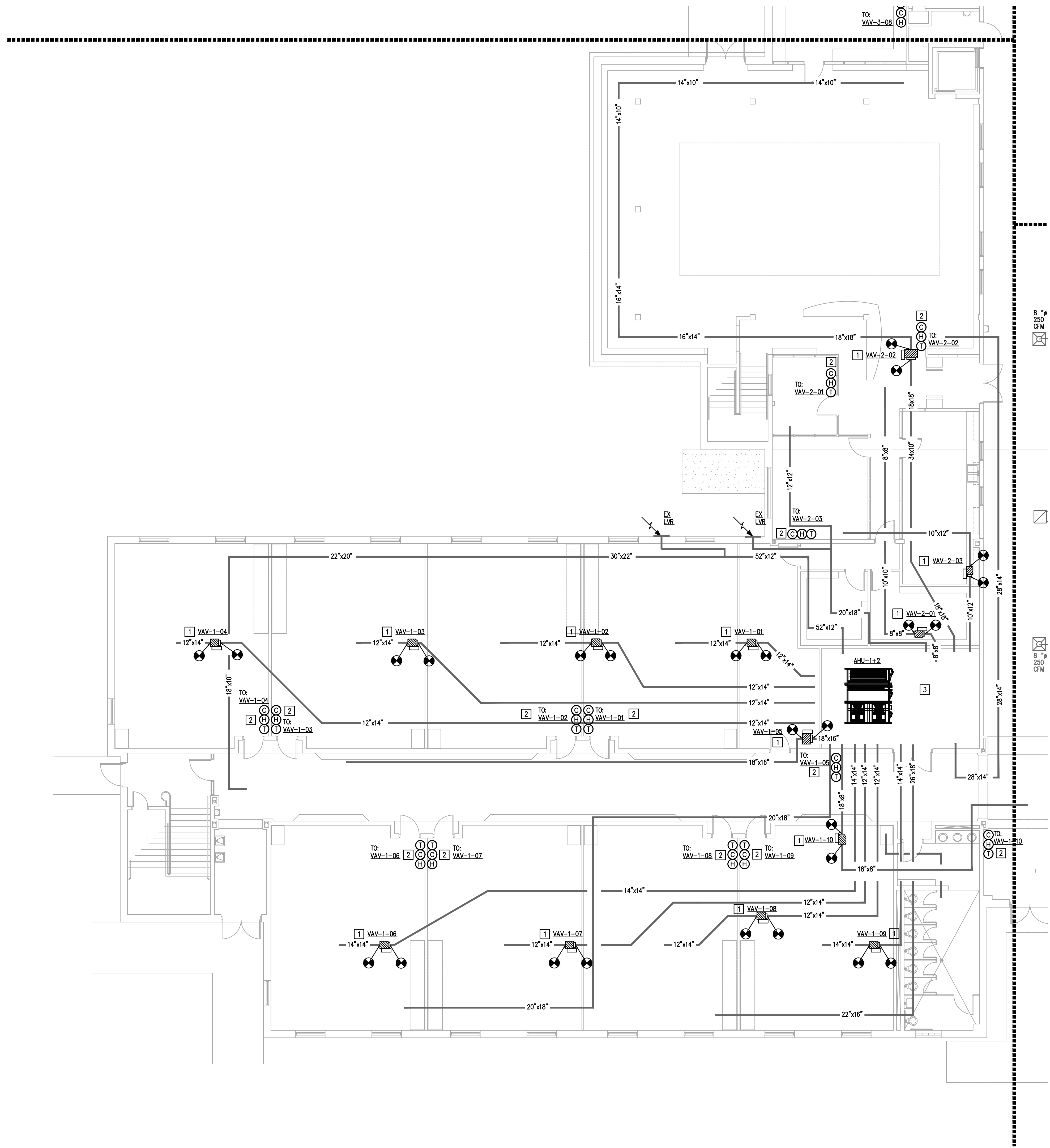
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| SHEET NUMBER: | M1.21 |



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 TBPE Firm Registration No. 2234
 DBR Project Number 218007.002
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M1.21

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1 LEVEL 1 MECHANICAL PLAN - A
 M2.11A 1/8" = 1'-0"

MECHANICAL GENERAL NOTES:

- A. REFER TO SHEET M0.01 FOR MECHANICAL GENERAL NOTES.
- B. EXACT LOCATIONS OF HOT WATER DUCT COILS AND DAMPERS SHALL BE FIELD COORDINATED WITH OTHER TRADES TO AVOID CONFLICTS AND ALLOW ADEQUATE CLEARANCES.
- C. MECHANICAL CONTRACTOR SHALL COORDINATE WITH ELECTRICAL CONTRACTOR FOR ALL ELECTRICAL POWER REQUIREMENTS.
- D. MECHANICAL CONTRACTOR SHALL COORDINATE WITH ELECTRICAL CONTRACTOR PRIOR TO ACTUAL INSTALLATION OF TEMPERATURE AND HUMIDITY SENSORS.
- E. ALL EQUIPMENT, DUCTWORK, CONTROLS AND ACCESSORIES FOUND TO BE ABANDONED SHALL BE REMOVED.
- F. CONTRACTOR SHALL COORDINATE CONSTRUCTION WITH BUILDING FACILITY AS TO NOT DISTURB OPERATING HOURS.
- G. CONTRACTOR SHALL COORDINATE CLEARANCES WITH ALL APPLICABLE TRADES TO ENSURE THAT ALL NECESSARY CODES ARE IN COMPLIANCE.
- H. EXISTING DUCTWORK SHOWN AS A SINGLE LINE.

MECHANICAL KEY NOTES:

1. APPROXIMATE LOCATION OF NEW SINGLE DUCT BOX. CONTRACTOR SHALL INSTALL NEW SINGLE DUCT BOX IN EXISTING DUCTWORK. CONTRACTOR SHALL REMOVE AND PATCH EXISTING DUCTWORK AS NECESSARY, TYP.
2. NEW DDC TEMPERATURE, RELATIVE HUMIDITY, AND CO2 SENSORS.
3. REFER TO ENLARGED MECHANICAL ROOM PLANS FOR MECHANICAL ROOM VIEW CONTINUATION.
4. PROVIDE NEW MANUAL BALANCING DAMPER.

LEGEND:

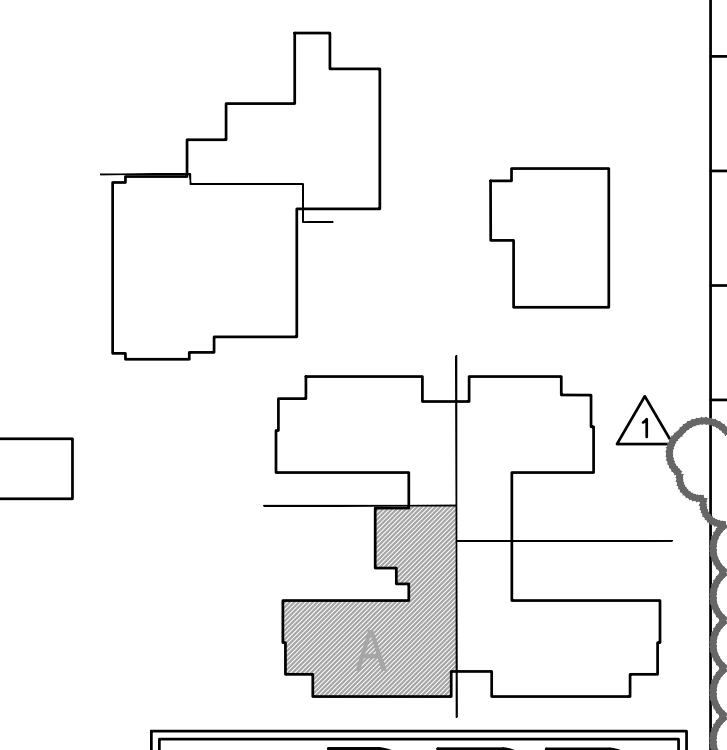
- NEW PIPING AND EQUIPMENT
- EXISTING PIPING AND EQUIPMENT



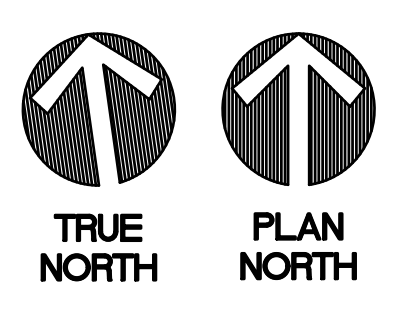
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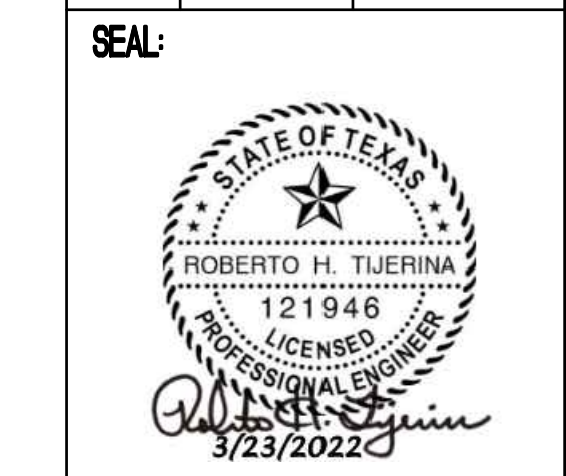
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| DRAWN BY: | DBR |
| CHECKED BY: | DBR |
| PROJECT NUMBER: | 218007.002 |
| SHEET TITLE: | LEVEL 1 MECHANICAL PLAN - A |



DBR
 9990 Richmond Avenue, South Building, Suite 300
 Houston, Texas 77042
 713.914.0888 p. 713.914.0886 f.
 TBPE Firm Registration No. 2234
 DBR Project Number 218007.002
 HA JA JB ---

SHEET NUMBER:
M2.11A

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EDINBURG CONSOLIDATED INDEPENDENT SCHOOL DISTRICT
MEMORIAL MS - HVAC IMPROVEMENTS
3105 N DOOLITTLE RD, EDINBURG, TX 78542

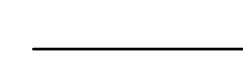

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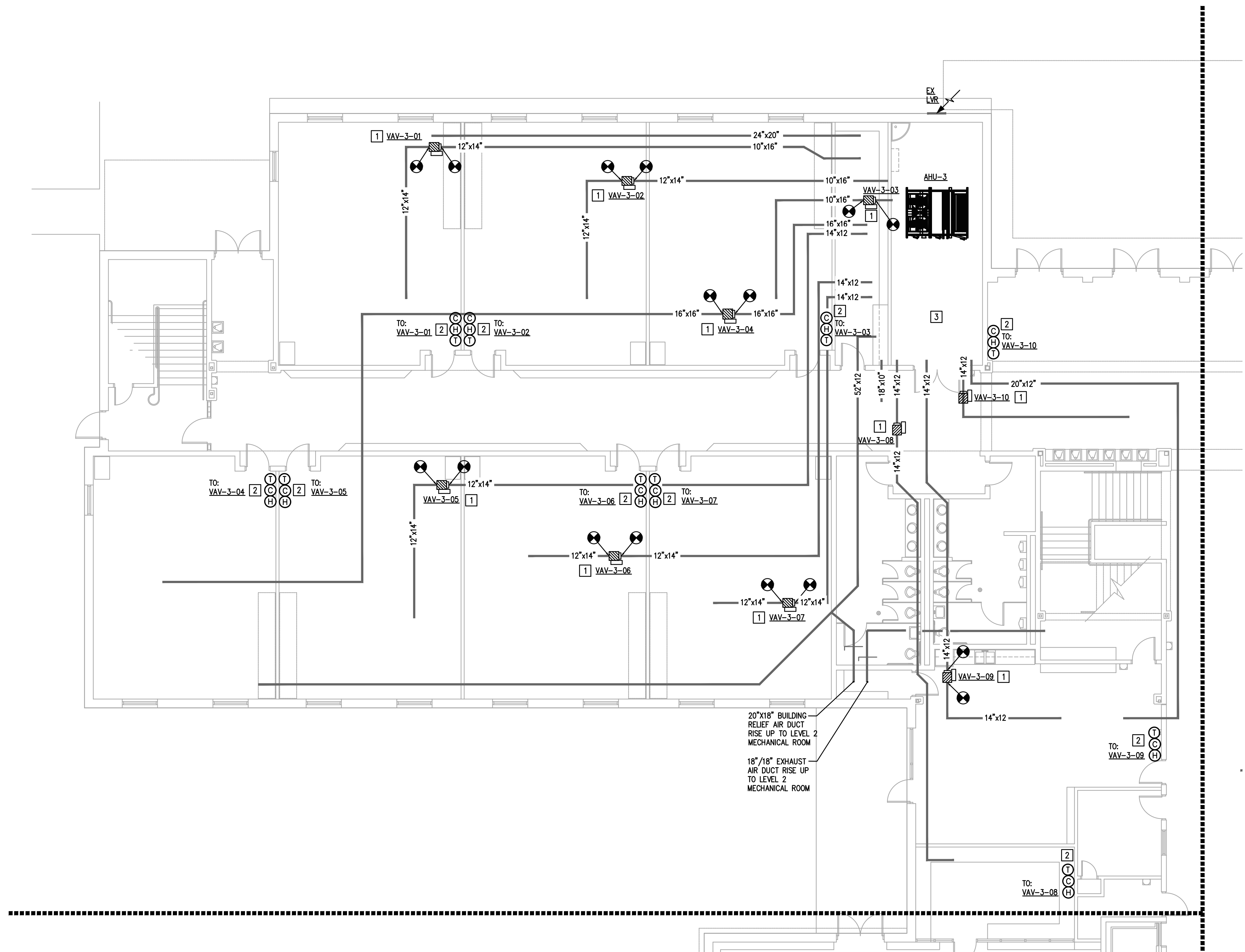
- REFER TO SHEET M0.01 FOR MECHANICAL GENERAL NOTES.
- EXACT LOCATIONS OF HOT WATER DUCT COILS AND DAMPERS SHALL BE FIELD COORDINATED WITH OTHER TRADES TO AVOID CONFLICTS AND ALLOW ADEQUATE CLEARANCES.
- MECHANICAL CONTRACTOR SHALL COORDINATE WITH ELECTRICAL CONTRACTOR FOR ALL ELECTRICAL POWER REQUIREMENTS.
- MECHANICAL CONTRACTOR SHALL COORDINATE WITH ELECTRICAL CONTRACTOR PRIOR TO ACTUAL INSTALLATION OF TEMPERATURE AND HUMIDITY SENSORS.
- ALL EQUIPMENT, DUCTWORK, CONTROLS AND ACCESSORIES FOUND TO BE ABANDONED SHALL BE REMOVED.
- CONTRACTOR SHALL COORDINATE CONSTRUCTION WITH BUILDING FACILITY AS TO NOT DISTURB OPERATING HOURS.
- CONTRACTOR SHALL COORDINATE CLEARANCES WITH ALL APPLICABLE TRADES TO ENSURE THAT ALL NECESSARY CODES ARE IN COMPLIANCE.
- EXISTING DUCTWORK SHOWN AS A SINGLE LINE.

MECHANICAL KEY NOTES:

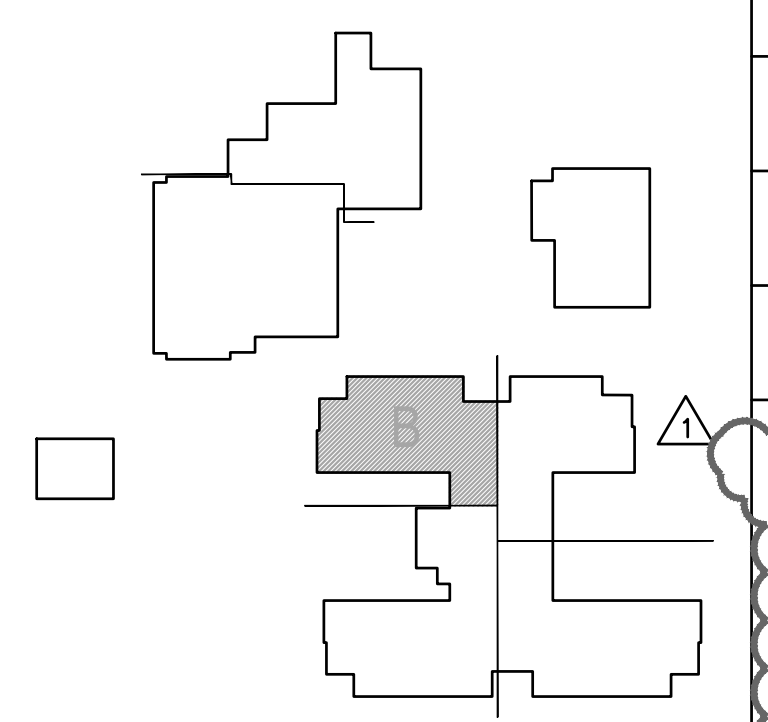
- APPROXIMATE LOCATION OF NEW SINGLE DUCT BOX. CONTRACTOR SHALL INSTALL NEW SINGLE DUCT BOX IN EXISTING DUCTWORK. CONTRACTOR SHALL REMOVE AND PATCH EXISTING DUCTWORK AS NECESSARY. TYP.
- NEW DDC TEMPERATURE, RELATIVE HUMIDITY, AND CO2 SENSORS.
- REFER TO ENLARGED MECHANICAL ROOM PLANS FOR MECHANICAL ROOM VIEW CONTINUATION.
- PROVIDE NEW MANUAL BALANCING DAMPER.

LEGEND:

-  NEW PIPING AND EQUIPMENT
-  EXISTING PIPING AND EQUIPMENT



1 LEVEL 1 MECHANICAL PLAN - B
M2.11B 1/8" = 1'-0"



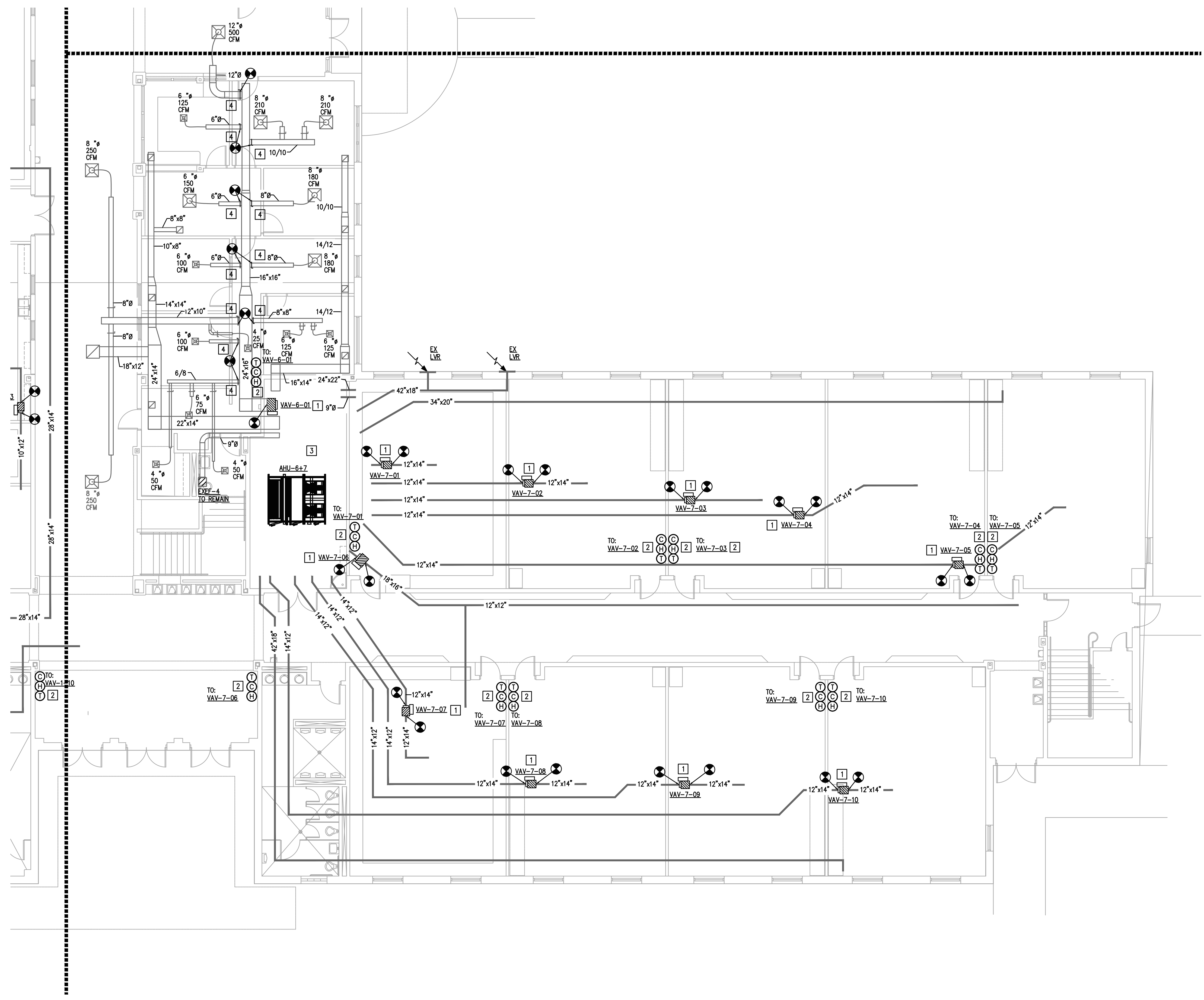

9990 Richmond Avenue, South Building, Suite 300
Houston, Texas 77042
713.914.0888 p 713.914.0886 f
TBPE Firm Registration No. 2234
DBR Project Number 218007.002

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PLAN NORTH

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| PROJECT NUMBER: | 218007.002 |
| SHEET TITLE: | LEVEL 1 MECHANICAL PLAN - B |
| SHEET NUMBER: | M2.11B |

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1 LEVEL 1 MECHANICAL PLAN - D
 1/8" = 1'-0"

MECHANICAL GENERAL NOTES:

- A. REFER TO SHEET M0.01 FOR MECHANICAL GENERAL NOTES.
- B. EXACT LOCATIONS OF HOT WATER DUCT COILS AND DAMPERS SHALL BE FIELD COORDINATED WITH OTHER TRADES TO AVOID CONFLICTS AND ALLOW ADEQUATE CLEARANCES.
- C. MECHANICAL CONTRACTOR SHALL COORDINATE WITH ELECTRICAL CONTRACTOR FOR ALL ELECTRICAL POWER REQUIREMENTS.
- D. MECHANICAL CONTRACTOR SHALL COORDINATE WITH ELECTRICAL CONTRACTOR PRIOR TO ACTUAL INSTALLATION OF TEMPERATURE AND HUMIDITY SENSORS.
- E. ALL EQUIPMENT, DUCTWORK, CONTROLS AND ACCESSORIES FOUND TO BE ABANDONED SHALL BE REMOVED.
- F. CONTRACTOR SHALL COORDINATE CONSTRUCTION WITH BUILDING FACILITY AS TO NOT DISTURB OPERATING HOURS.
- G. CONTRACTOR SHALL COORDINATE CLEARANCES WITH ALL APPLICABLE TRADES TO ENSURE THAT ALL NECESSARY CODES ARE IN COMPLIANCE.
- H. EXISTING DUCTWORK SHOWN AS A SINGLE LINE.

MECHANICAL KEY NOTES:

- 1. APPROXIMATE LOCATION OF NEW SINGLE DUCT BOX. CONTRACTOR SHALL INSTALL NEW SINGLE DUCT BOX IN EXISTING DUCTWORK. CONTRACTOR SHALL REMOVE AND PATCH EXISTING DUCTWORK AS NECESSARY. TYP.
- 2. NEW DDC TEMPERATURE, RELATIVE HUMIDITY, AND CO2 SENSORS.
- 3. REFER TO ENLARGED MECHANICAL ROOM PLANS FOR MECHANICAL ROOM VIEW CONTINUATION.
- 4. PROVIDE NEW MANUAL BALANCING DAMPER.

LEGEND:

- NEW PIPING AND EQUIPMENT
- EXISTING PIPING AND EQUIPMENT

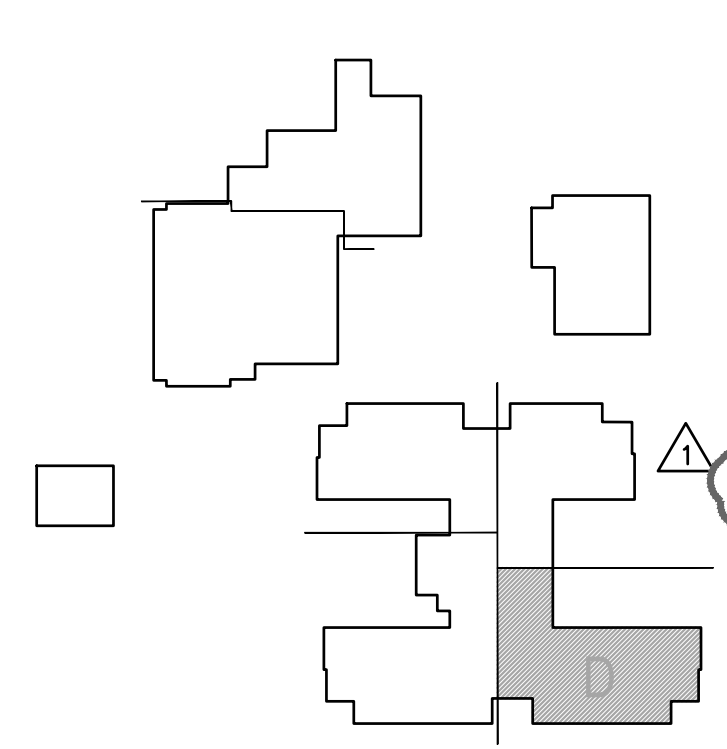


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 9601 McAllister Freeway, Suite 410
 San Antonio, Texas 78216
 TBPE Firm Registration No. 2234

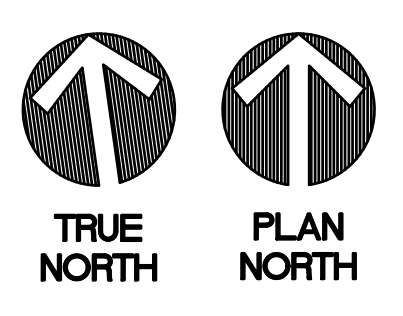
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**EDINBURG CONSOLIDATED INDEPENDENT SCHOOL DISTRICT
 MEMORIAL MS - HVAC IMPROVEMENTS**
 3105 N DOOLITTLE RD, EDINBURG, TX 78542



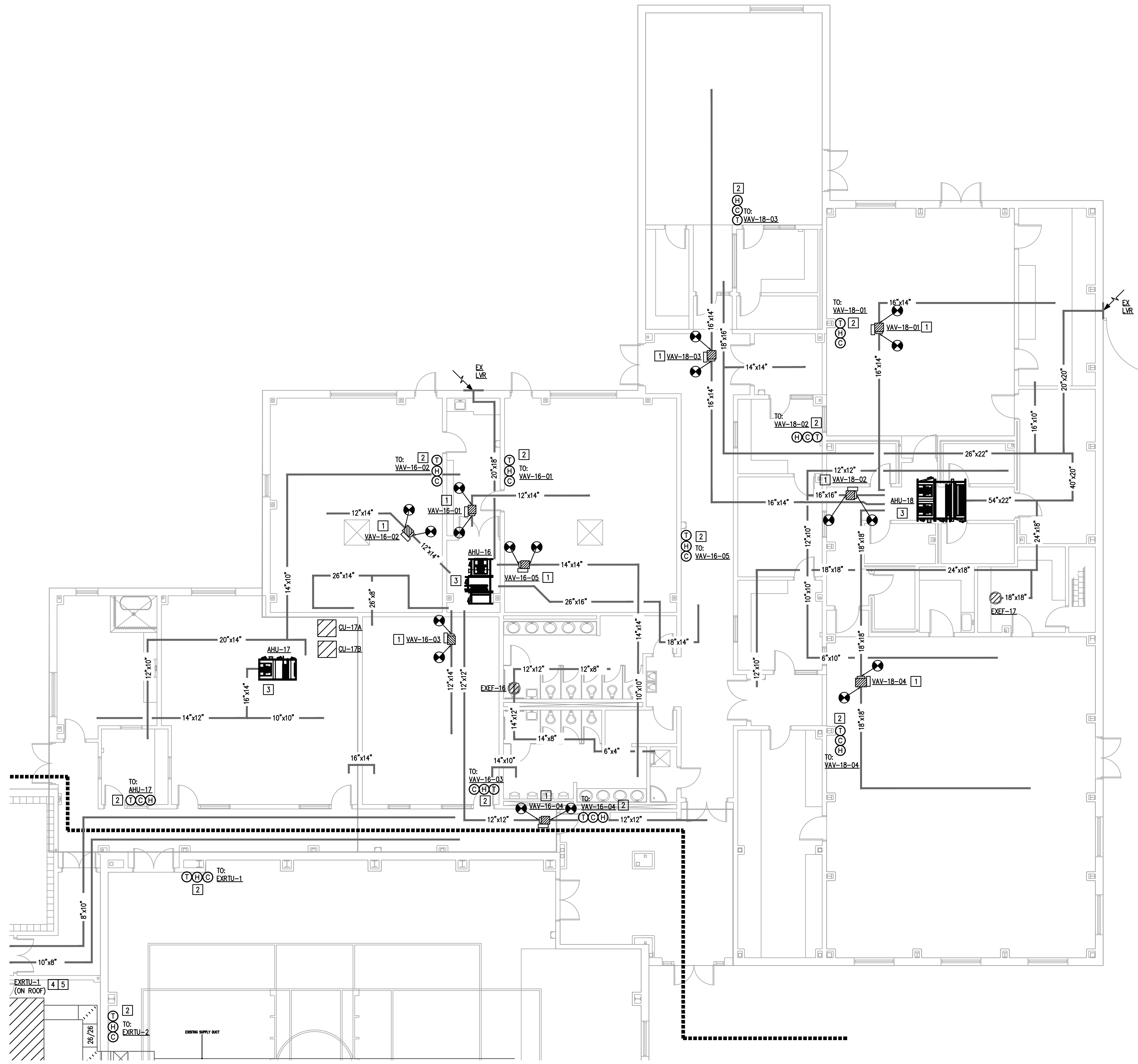
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| DATE: | 3/23/2022 |
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| PROJECT NUMBER: | 218007.002 |
| SHEET TITLE: | LEVEL 1 MECHANICAL PLAN - D |



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1 LEVEL 1 MECHANICAL PLAN - E
 M2.12E 1/8" = 1'-0"

MECHANICAL GENERAL NOTES:

- A. REFER TO SHEET M0.01 FOR MECHANICAL GENERAL NOTES.
- B. EXACT LOCATIONS OF HOT WATER DUCT COILS AND DAMPERS SHALL BE FIELD COORDINATED WITH OTHER TRADES TO AVOID CONFLICTS AND ALLOW ADEQUATE CLEARANCES.
- C. MECHANICAL CONTRACTOR SHALL COORDINATE WITH ELECTRICAL CONTRACTOR FOR ALL ELECTRICAL POWER REQUIREMENTS.
- D. MECHANICAL CONTRACTOR SHALL COORDINATE WITH ELECTRICAL CONTRACTOR PRIOR TO ACTUAL INSTALLATION OF TEMPERATURE AND HUMIDITY SENSORS.
- E. ALL EQUIPMENT, DUCTWORK, CONTROLS AND ACCESSORIES FOUND TO BE ABANDONED SHALL BE REMOVED.
- F. CONTRACTOR SHALL COORDINATE CONSTRUCTION WITH BUILDING FACILITY AS TO NOT DISTURB OPERATING HOURS.
- G. CONTRACTOR SHALL COORDINATE CLEARANCES WITH ALL APPLICABLE TRADES TO ENSURE THAT ALL NECESSARY CODES ARE IN COMPLIANCE.
- H. EXISTING DUCTWORK SHOWN AS A SINGLE LINE.

MECHANICAL KEY NOTES:

- 1. APPROXIMATE LOCATION OF NEW SINGLE DUCT BOX. CONTRACTOR SHALL INSTALL NEW SINGLE DUCT BOX IN EXISTING DUCTWORK. CONTRACTOR SHALL REMOVE AND PATCH EXISTING DUCTWORK AS NECESSARY, TYP.
- 2. NEW DDC TEMPERATURE, RELATIVE HUMIDITY, AND CO2 SENSORS.
- 3. REFER TO ENLARGED MECHANICAL ROOM PLANS FOR MECHANICAL ROOM VIEW CONTINUATION.

LEGEND:

- NEW PIPING AND EQUIPMENT
- EXISTING PIPING AND EQUIPMENT



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**EDINBURG CONSOLIDATED INDEPENDENT SCHOOL DISTRICT
 MEMORIAL MS - HVAC IMPROVEMENTS**
 3105 N DOOLITTLE RD, EDINBURG, TX 78542

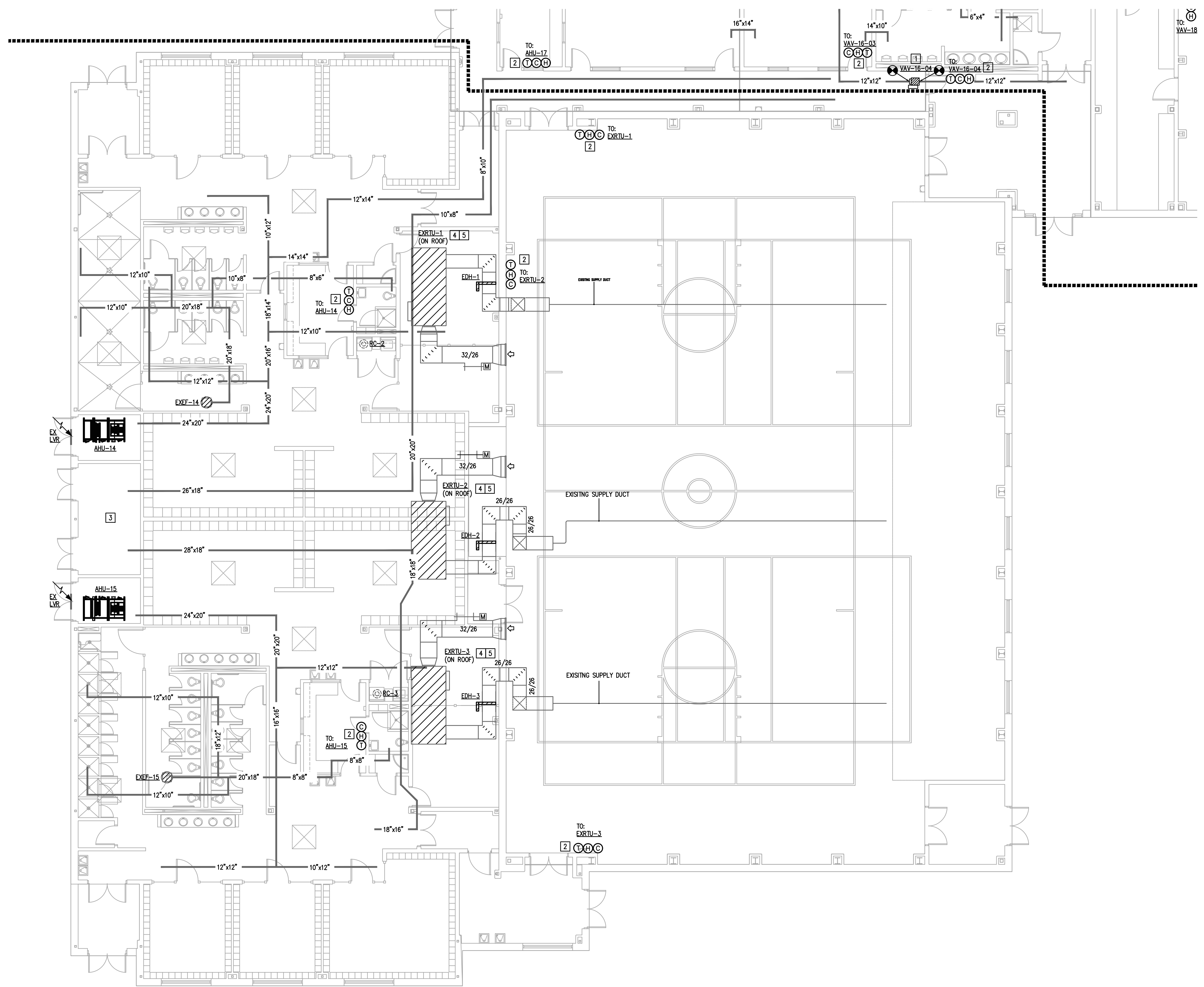
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| DRAWN BY: | DBR |
| CHECKED BY: | DBR |
| PROJECT NUMBER: | 218007.002 |
| SHEET TITLE: | |

**LEVEL 1
MECHANICAL
PLAN - E**

SHEET NUMBER:
M2.12E

DBR
 9990 Richmond Avenue, South Building, Suite 300
 Houston, Texas 77042
 713.914.0888 p. 713.914.0888 f.
 TBPE Firm Registration No. 2234
 DBR Project Number 218007.002
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1 LEVEL 1 MECHANICAL PLAN - F
 M2.12F 1/8" = 1'-0"

MECHANICAL GENERAL NOTES:

- A. REFER TO SHEET M0.01 FOR MECHANICAL GENERAL NOTES.
- B. EXACT LOCATIONS OF HOT WATER DUCT COILS AND DAMPERS SHALL BE FIELD COORDINATED WITH OTHER TRADES TO AVOID CONFLICTS AND ALLOW ADEQUATE CLEARANCES.
- C. MECHANICAL CONTRACTOR SHALL COORDINATE WITH ELECTRICAL CONTRACTOR FOR ALL ELECTRICAL POWER REQUIREMENTS.
- D. MECHANICAL CONTRACTOR SHALL COORDINATE WITH ELECTRICAL CONTRACTOR PRIOR TO ACTUAL INSTALLATION OF TEMPERATURE AND HUMIDITY SENSORS.
- E. ALL EQUIPMENT, DUCTWORK, CONTROLS AND ACCESSORIES FOUND TO BE ABANDONED SHALL BE REMOVED.
- F. CONTRACTOR SHALL COORDINATE CONSTRUCTION WITH BUILDING FACILITY AS TO NOT DISTURB OPERATING HOURS.
- G. CONTRACTOR SHALL COORDINATE CLEARANCES WITH ALL APPLICABLE TRADES TO ENSURE THAT ALL NECESSARY CODES ARE IN COMPLIANCE.
- H. EXISTING DUCTWORK SHOWN AS A SINGLE LINE.

MECHANICAL KEY NOTES:

1. APPROXIMATE LOCATION OF NEW SINGLE DUCT BOX. CONTRACTOR SHALL INSTALL NEW SINGLE DUCT BOX IN EXISTING DUCTWORK. CONTRACTOR SHALL REMOVE AND PATCH EXISTING DUCTWORK AS NECESSARY. TYP.
2. NEW DDC TEMPERATURE, RELATIVE HUMIDITY, AND CO2 SENSORS.
3. REFER TO ENLARGED MECHANICAL ROOM PLANS FOR MECHANICAL ROOM VIEW CONTINUATION.
4. EQUIPMENT LOCATED ON ROOF.
5. PROVIDE NEW OUTDOOR RATED ELECTRIC DUCT HEATER AS SCHEDULED. PATCH, SEAL, AND RE-INSULATE DUCT.

LEGEND:

- NEW PIPING AND EQUIPMENT
- EXISTING PIPING AND EQUIPMENT



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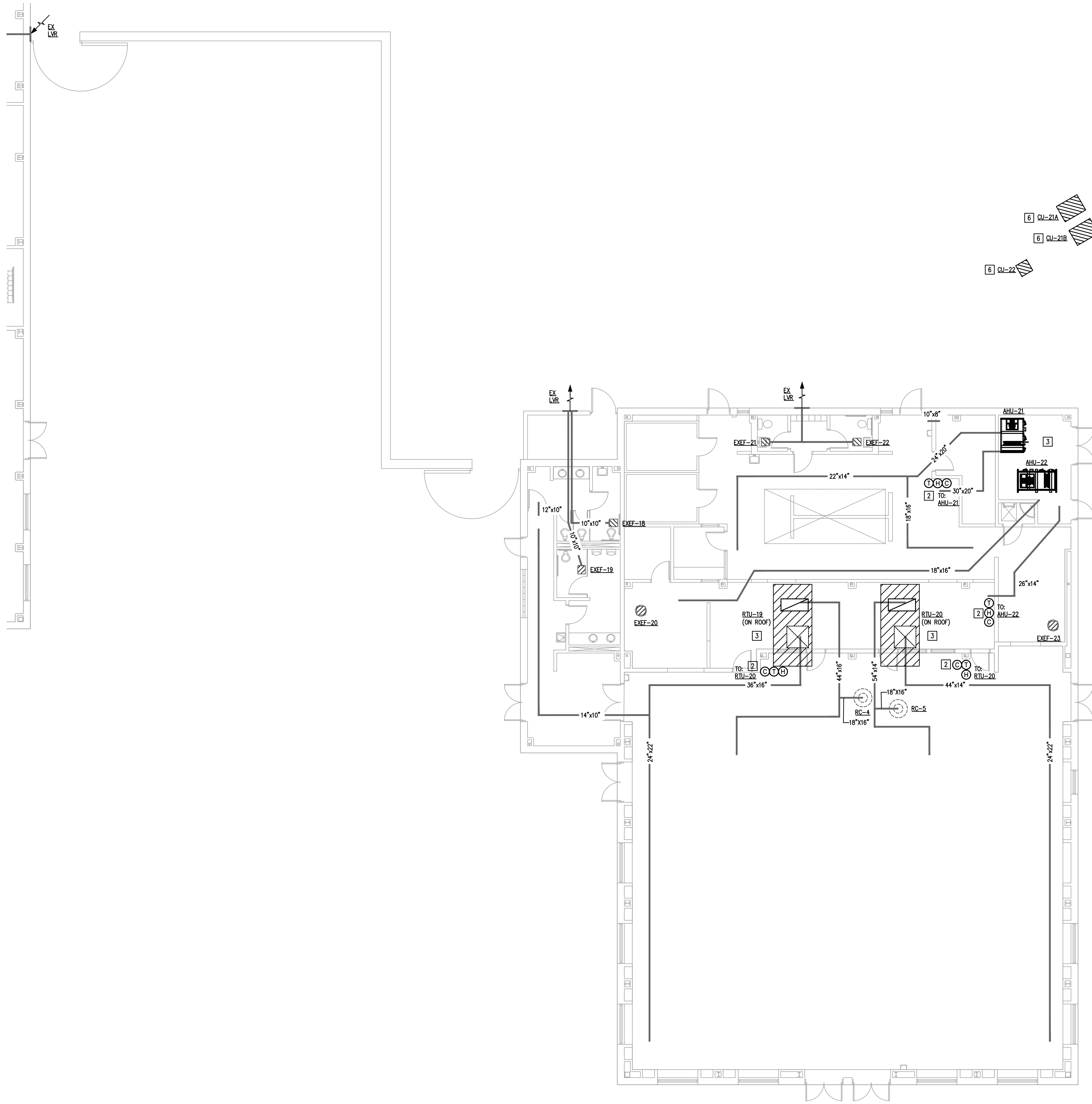
EDINBURG CONSOLIDATED INDEPENDENT SCHOOL DISTRICT
MEMORIAL MS - HVAC IMPROVEMENTS
 3105 N DOOLITTLE RD, EDINBURG, TX 78542

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| DATE: | 3/23/2022 |
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| PROJECT NUMBER: | 218007.002 |
| SHEET TITLE: | LEVEL 1 MECHANICAL PLAN - F |

DBR
 9990 Richmond Avenue, South Building, Suite 300
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 713.914.0888 p 713.914.0886 f
 TBPE Firm Registration No. 2234
 DBR Project Number 218007.002
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MECHANICAL GENERAL NOTES:

- A. REFER TO SHEET M0.01 FOR MECHANICAL GENERAL NOTES.
- B. EXACT LOCATIONS OF HOT WATER DUCT COILS AND DAMPERS SHALL BE FIELD COORDINATED WITH OTHER TRADES TO AVOID CONFLICTS AND ALLOW ADEQUATE CLEARANCES.
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- E. ALL EQUIPMENT, DUCTWORK, CONTROLS AND ACCESSORIES FOUND TO BE ABANDONED SHALL BE REMOVED.
- F. CONTRACTOR SHALL COORDINATE CONSTRUCTION WITH BUILDING FACILITY AS TO NOT DISTURB OPERATING HOURS.
- G. CONTRACTOR SHALL COORDINATE CLEARANCES WITH ALL APPLICABLE TRADES TO ENSURE THAT ALL NECESSARY CODES ARE IN COMPLIANCE.
- H. EXISTING DUCTWORK SHOWN AS A SINGLE LINE.

MECHANICAL KEY NOTES:

- 1. APPROXIMATE LOCATION OF NEW SINGLE DUCT BOX. CONTRACTOR SHALL INSTALL NEW SINGLE DUCT BOX IN EXISTING DUCTWORK. CONTRACTOR SHALL REMOVE AND PATCH EXISTING DUCTWORK AS NECESSARY, TYP.
- 2. NEW DDC TEMPERATURE, RELATIVE HUMIDITY, AND CO2 SENSORS.
- 3. REFER TO ENLARGED MECHANICAL ROOM PLANS FOR MECHANICAL ROOM VIEW CONTINUATION.
- 4. EQUIPMENT LOCATED ON ROOF.
- 5. PROVIDE NEW OUTDOOR RATED ELECTRIC DUCT HEATER AS SCHEDULED, PATCH, SEAL, AND RE-INSULATE DUCT.
- 6. PROVIDE NEW CONDENSING UNIT AS SCHEDULED. ROUTE NEW REFRIGERANT LINES FROM AIR HANDLING UNIT BACK TO ASSOCIATED CONDENSING UNIT. SIZE AND INSTALL IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. ROUTE NEW REFRIGERANT LINES DOWN EXTERIOR OF BUILDING WALL IN SHEET METAL ENCLOSURE. FINISH SHEET METAL ENCLOSURE TO MATCH ADJACENT WALL COLOR.

LEGEND:

- NEW PIPING AND EQUIPMENT
- EXISTING PIPING AND EQUIPMENT

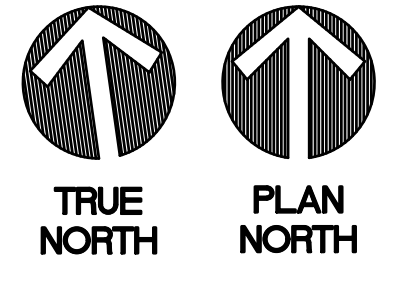
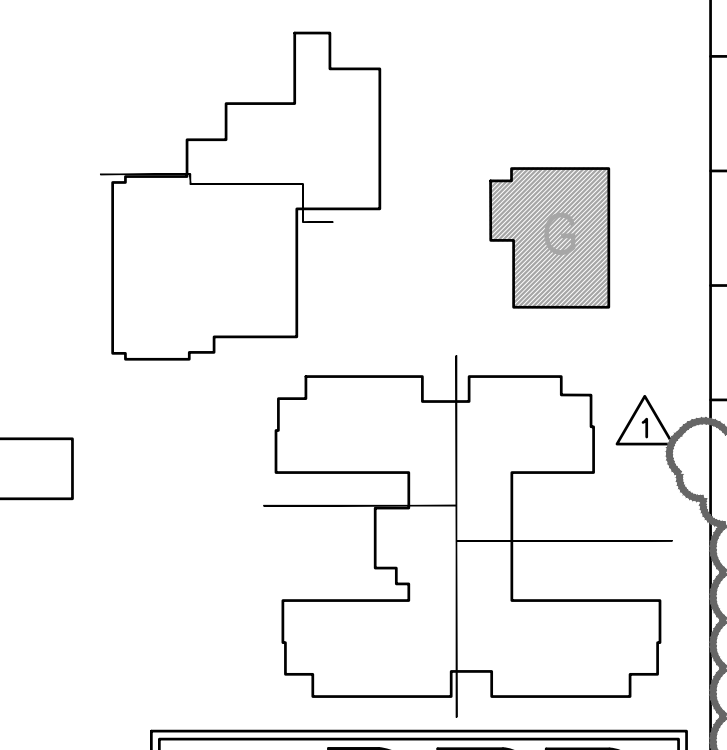


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**EDINBURG CONSOLIDATED INDEPENDENT SCHOOL DISTRICT
 MEMORIAL MS - HVAC IMPROVEMENTS**
 3105 N DOOLITTLE RD, EDINBURG, TX 78542

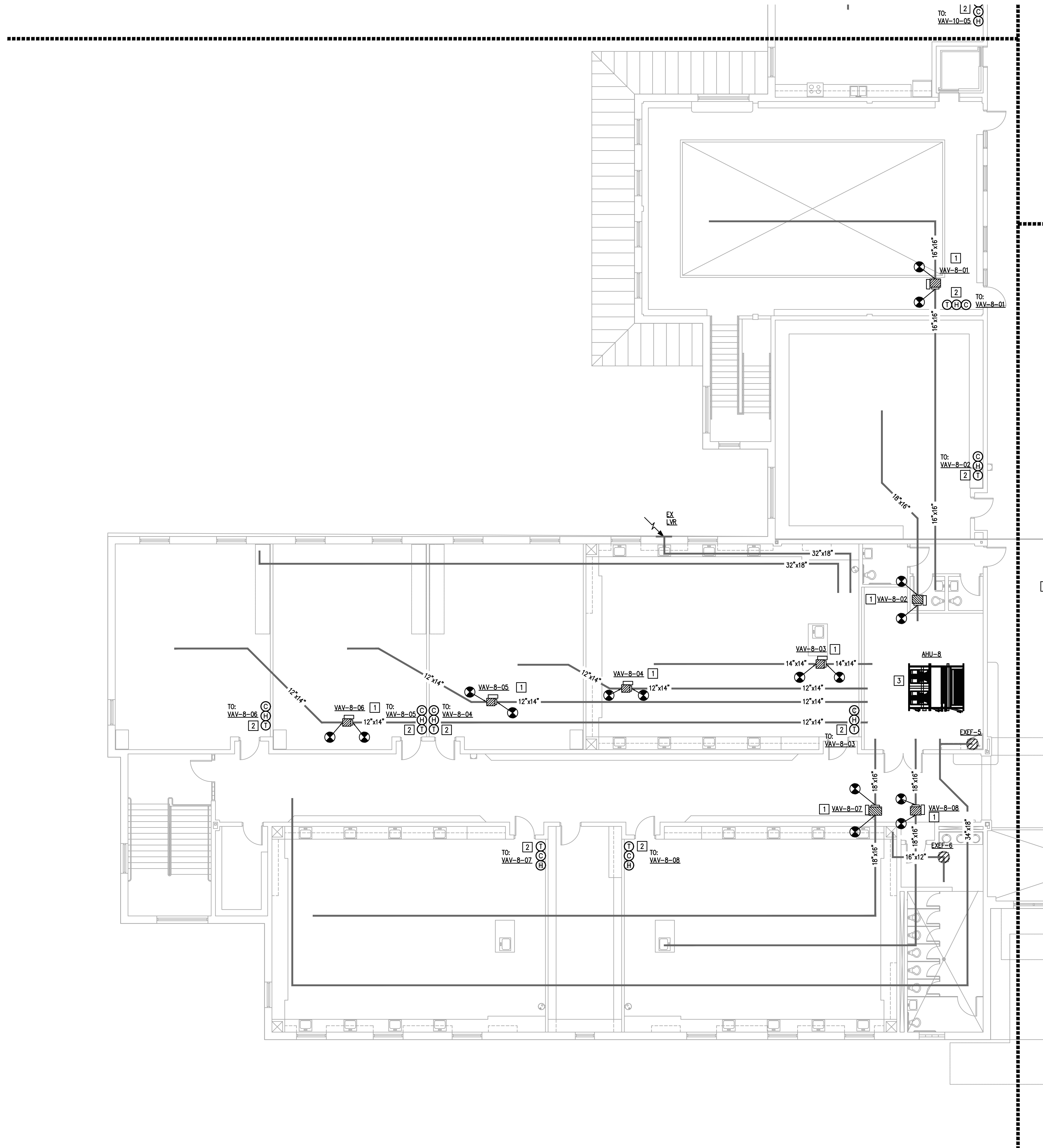
LEVEL 1 MECHANICAL PLAN - G
 1/8" = 1'-0"



9990 Richmond Avenue, South Building, Suite 300
 Houston, Texas 77042
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 TBPE Firm Registration No. 2234
 DBR Project Number 218007.002
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| DATE: | 3/23/2022 |
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| PROJECT NUMBER: | 218007.002 |
| SHEET TITLE: | LEVEL 1 MECHANICAL PLAN - G |
| SHEET NUMBER: | M2.13G |

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1 LEVEL 2 MECHANICAL PLAN - A
 M2.21A 1/8" = 1'-0"

MECHANICAL GENERAL NOTES:

- A. REFER TO SHEET M0.01 FOR MECHANICAL GENERAL NOTES.
- B. EXACT LOCATIONS OF HOT WATER DUCT COILS AND DAMPERS SHALL BE FIELD COORDINATED WITH OTHER TRADES TO AVOID CONFLICTS AND ALLOW ADEQUATE CLEARANCES.
- C. MECHANICAL CONTRACTOR SHALL COORDINATE WITH ELECTRICAL CONTRACTOR FOR ALL ELECTRICAL POWER REQUIREMENTS.
- D. MECHANICAL CONTRACTOR SHALL COORDINATE WITH ELECTRICAL CONTRACTOR PRIOR TO ACTUAL INSTALLATION OF TEMPERATURE AND HUMIDITY SENSORS.
- E. ALL EQUIPMENT, DUCTWORK, CONTROLS AND ACCESSORIES FOUND TO BE ABANDONED SHALL BE REMOVED.
- F. CONTRACTOR SHALL COORDINATE CONSTRUCTION WITH BUILDING FACILITY AS TO NOT DISTURB OPERATING HOURS.
- G. CONTRACTOR SHALL COORDINATE CLEARANCES WITH ALL APPLICABLE TRADES TO ENSURE THAT ALL NECESSARY CODES ARE IN COMPLIANCE.
- H. EXISTING DUCTWORK SHOWN AS A SINGLE LINE.

MECHANICAL KEY NOTES:

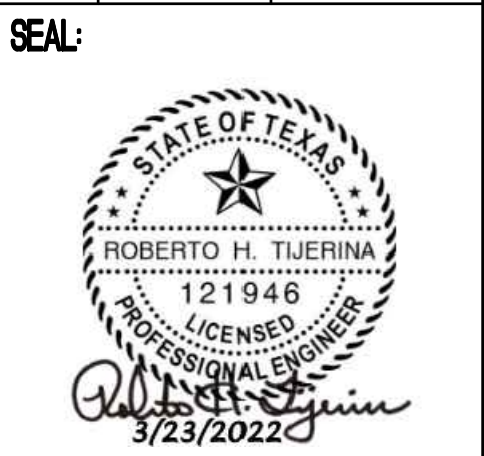
- 1. APPROXIMATE LOCATION OF NEW SINGLE DUCT BOX. CONTRACTOR SHALL INSTALL NEW SINGLE DUCT BOX IN EXISTING DUCTWORK. CONTRACTOR SHALL REMOVE AND PATCH EXISTING DUCTWORK AS NECESSARY. TYP.
- 2. NEW DDC TEMPERATURE, RELATIVE HUMIDITY, AND CO2 SENSORS.
- 3. REFER TO ENLARGED MECHANICAL ROOM PLANS FOR MECHANICAL ROOM VIEW CONTINUATION.

LEGEND:

- NEW PIPING AND EQUIPMENT
- EXISTING PIPING AND EQUIPMENT



| REVISION No. | DATE | DESCRIPTION |
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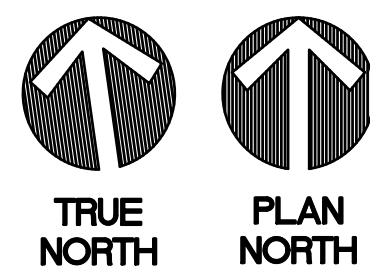


EDINBURG CONSOLIDATED INDEPENDENT SCHOOL DISTRICT
MEMORIAL MS - HVAC IMPROVEMENTS
 3105 N DOOLITTLE RD, EDINBURG, TX 78542

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| PROJECT NUMBER: | 218007.002 |
| SHEET TITLE: | |

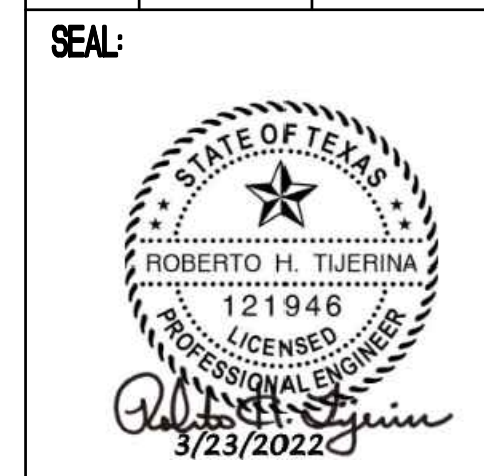
LEVEL 2 MECHANICAL PLAN - A

SHEET NUMBER: **M2.21A**



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EDINBURG CONSOLIDATED INDEPENDENT SCHOOL DISTRICT
MEMORIAL MS - HVAC IMPROVEMENTS
3105 N DOOLITTLE RD, EDINBURG, TX 78542

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| CHECKED BY: | DBR |
| PROJECT NUMBER: | 218007.002 |
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LEVEL 2
MECHANICAL
PLAN - B

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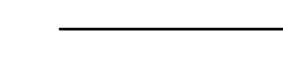

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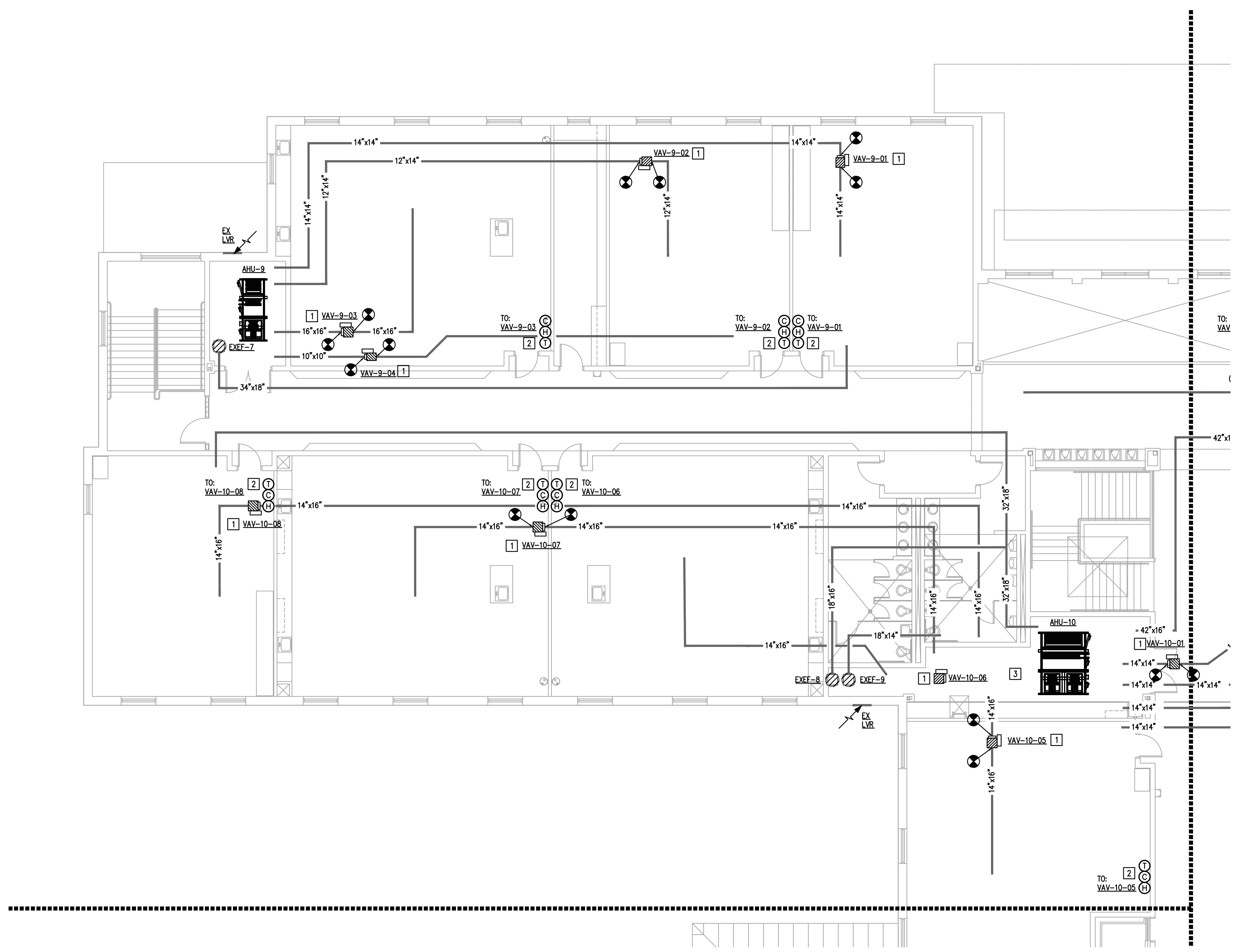
- REFER TO SHEET M0.01 FOR MECHANICAL GENERAL NOTES.
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- CONTRACTOR SHALL COORDINATE CLEARANCES WITH ALL APPLICABLE TRADES TO ENSURE THAT ALL NECESSARY CODES ARE IN COMPLIANCE.
- EXISTING DUCTWORK SHOWN AS A SINGLE LINE.

MECHANICAL KEY NOTES:

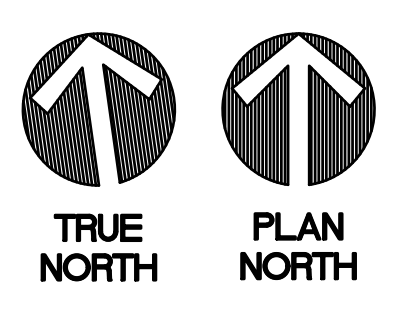
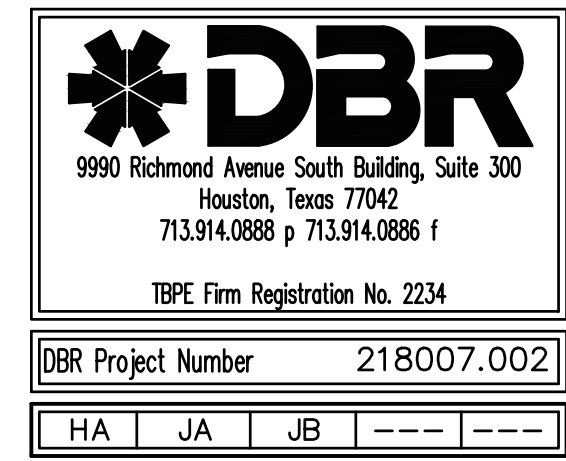
- APPROXIMATE LOCATION OF NEW SINGLE DUCT BOX. CONTRACTOR SHALL INSTALL NEW SINGLE DUCT BOX IN EXISTING DUCTWORK. CONTRACTOR SHALL REMOVE AND PATCH EXISTING DUCTWORK AS NECESSARY. TYP.
- NEW DDC TEMPERATURE, RELATIVE HUMIDITY, AND CO2 SENSORS.
- REFER TO ENLARGED MECHANICAL ROOM PLANS FOR MECHANICAL ROOM VIEW CONTINUATION.

LEGEND:

-  NEW PIPING AND EQUIPMENT
-  EXISTING PIPING AND EQUIPMENT

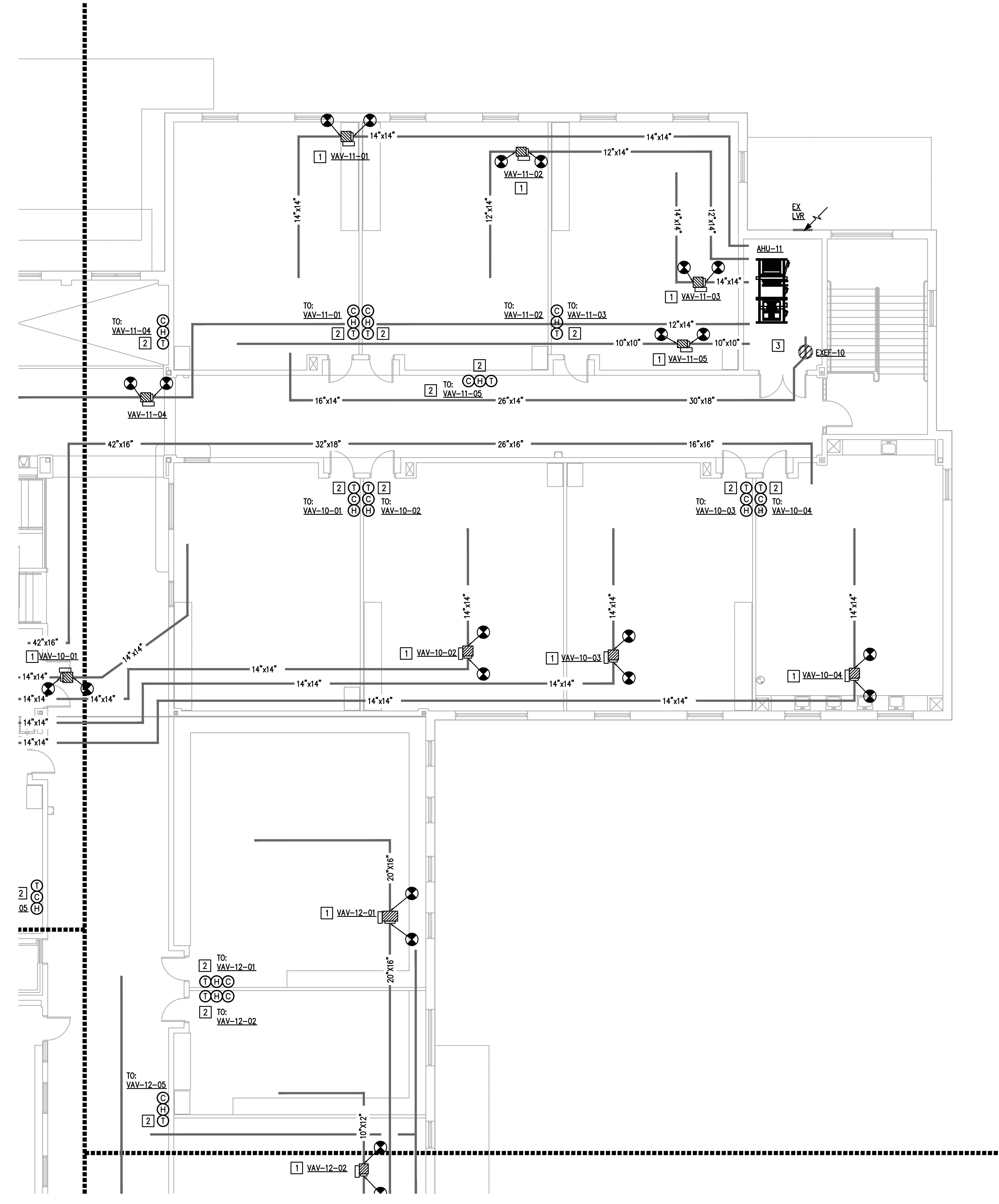


1 LEVEL 2 MECHANICAL PLAN - B
M2.21B 1/8" = 1'-0"

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1 LEVEL 2 MECHANICAL PLAN - C
 M2.21C 1/8" = 1'-0"

- MECHANICAL GENERAL NOTES:**
- REFER TO SHEET M0.01 FOR MECHANICAL GENERAL NOTES.
 - EXACT LOCATIONS OF HOT WATER DUCT COILS AND DAMPERS SHALL BE FIELD COORDINATED WITH OTHER TRADES TO AVOID CONFLICTS AND ALLOW ADEQUATE CLEARANCES.
 - MECHANICAL CONTRACTOR SHALL COORDINATE WITH ELECTRICAL CONTRACTOR FOR ALL ELECTRICAL POWER REQUIREMENTS.
 - MECHANICAL CONTRACTOR SHALL COORDINATE WITH ELECTRICAL CONTRACTOR PRIOR TO ACTUAL INSTALLATION OF TEMPERATURE AND HUMIDITY SENSORS.
 - ALL EQUIPMENT, DUCTWORK, CONTROLS AND ACCESSORIES FOUND TO BE ABANDONED SHALL BE REMOVED.
 - CONTRACTOR SHALL COORDINATE CONSTRUCTION WITH BUILDING FACILITY AS TO NOT DISTURB OPERATING HOURS.
 - CONTRACTOR SHALL COORDINATE CLEARANCES WITH ALL APPLICABLE TRADES TO ENSURE THAT ALL NECESSARY CODES ARE IN COMPLIANCE.
 - EXISTING DUCTWORK SHOWN AS A SINGLE LINE.

- MECHANICAL KEY NOTES:**
- APPROXIMATE LOCATION OF NEW SINGLE DUCT BOX. CONTRACTOR SHALL INSTALL NEW SINGLE DUCT BOX IN EXISTING DUCTWORK. CONTRACTOR SHALL REMOVE AND PATCH EXISTING DUCTWORK AS NECESSARY. TYP.
 - NEW DDC TEMPERATURE, RELATIVE HUMIDITY, AND CO2 SENSORS.
 - REFER TO ENLARGED MECHANICAL ROOM PLANS FOR MECHANICAL ROOM VIEW CONTINUATION.

- LEGEND:**
- NEW PIPING AND EQUIPMENT
 - EXISTING PIPING AND EQUIPMENT



210.546.0200 v.210.546.0201 f
 9601 McAllister Freeway, Suite 410
 San Antonio, Texas 78216
 TBPE Firm Registration NO. 2234

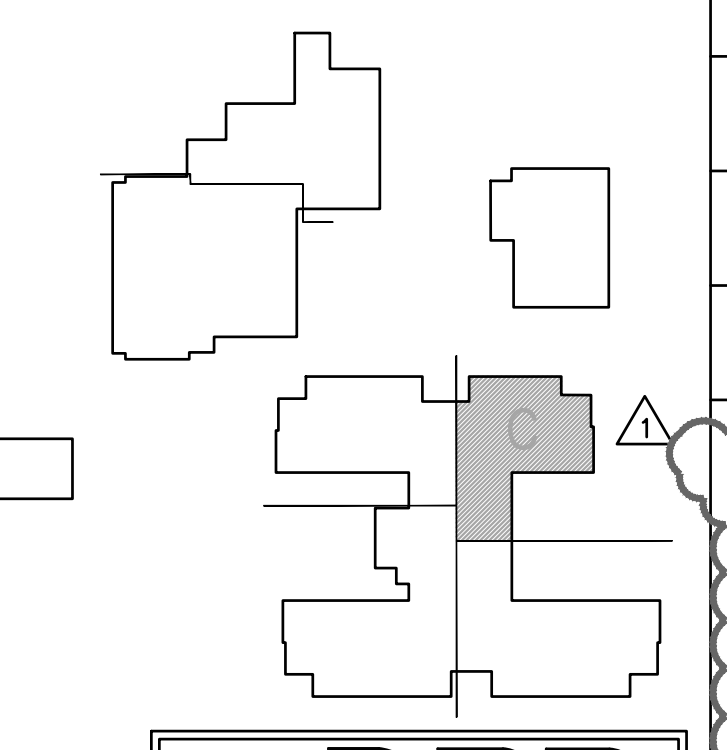
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EDINBURG CONSOLIDATED INDEPENDENT SCHOOL DISTRICT
MEMORIAL MS - HVAC IMPROVEMENTS
 3105 N DOOLITTLE RD, EDINBURG, TX 78542

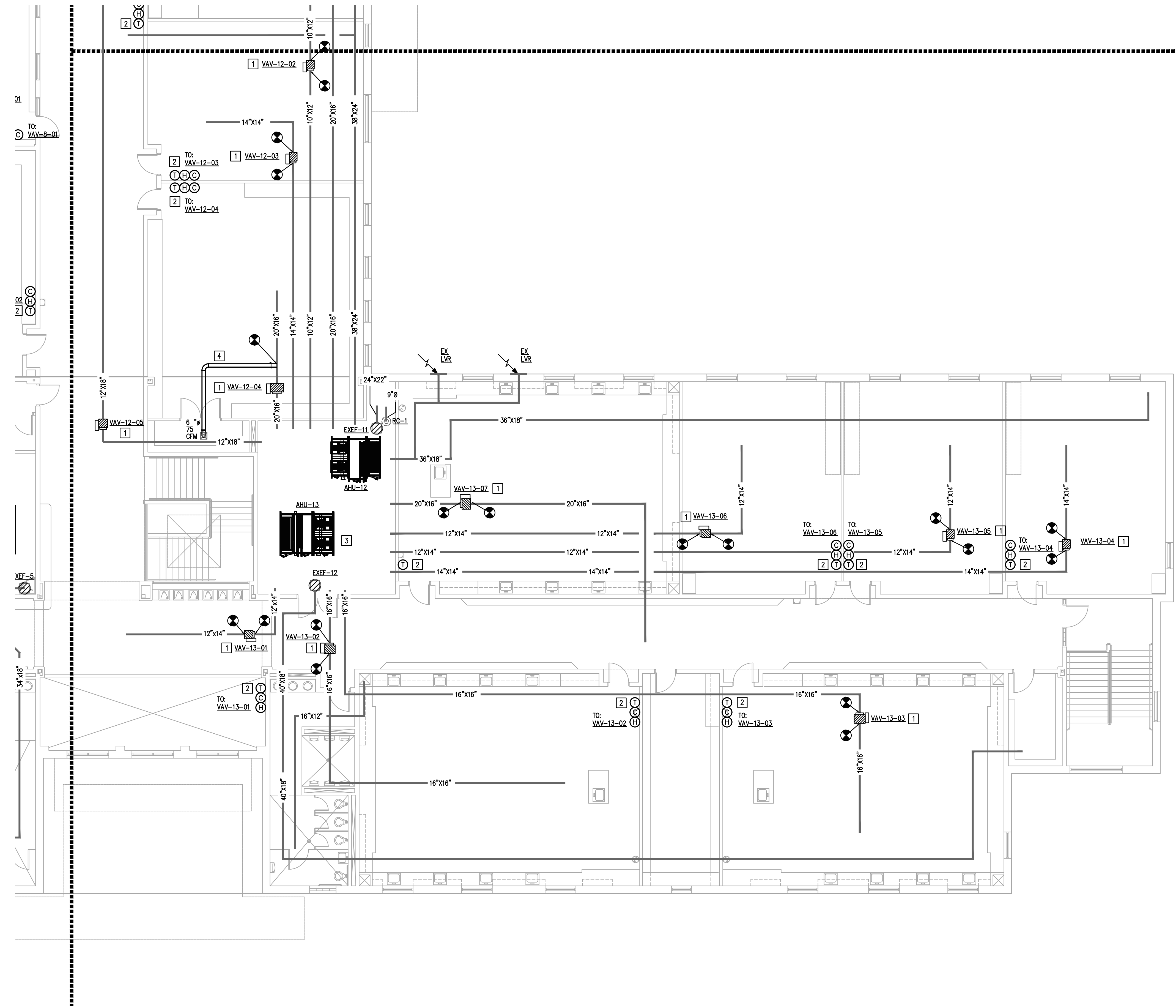
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 Houston, Texas 77042
 713.914.0888 p. 713.914.0886 f.
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 DBR Project Number 218007.002
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1 LEVEL 2 MECHANICAL PLAN - D
 M2.21D 1/8" = 1'-0"

MECHANICAL GENERAL NOTES:

- A. REFER TO SHEET M0.01 FOR MECHANICAL GENERAL NOTES.
- B. EXACT LOCATIONS OF HOT WATER DUCT GOILS AND DAMPERS SHALL BE FIELD COORDINATED WITH OTHER TRADES TO AVOID CONFLICTS AND ALLOW ADEQUATE CLEARANCES.
- C. MECHANICAL CONTRACTOR SHALL COORDINATE WITH ELECTRICAL CONTRACTOR FOR ALL ELECTRICAL POWER REQUIREMENTS.
- D. MECHANICAL CONTRACTOR SHALL COORDINATE WITH ELECTRICAL CONTRACTOR PRIOR TO ACTUAL INSTALLATION OF TEMPERATURE AND HUMIDITY SENSORS.
- E. ALL EQUIPMENT, DUCTWORK, CONTROLS AND ACCESSORIES FOUND TO BE ABANDONED SHALL BE REMOVED.
- F. CONTRACTOR SHALL COORDINATE CONSTRUCTION WITH BUILDING FACILITY AS TO NOT DISTURB OPERATING HOURS.
- G. CONTRACTOR SHALL COORDINATE CLEARANCES WITH ALL APPLICABLE TRADES TO ENSURE THAT ALL NECESSARY CODES ARE IN COMPLIANCE.
- H. EXISTING DUCTWORK SHOWN AS A SINGLE LINE.

MECHANICAL KEY NOTES:

- 1. APPROXIMATE LOCATION OF NEW SINGLE DUCT BOX. CONTRACTOR SHALL INSTALL NEW SINGLE DUCT BOX IN EXISTING DUCTWORK. CONTRACTOR SHALL REMOVE AND PATCH EXISTING DUCTWORK AS NECESSARY. TYP.
- 2. NEW DDC TEMPERATURE, RELATIVE HUMIDITY, AND CO2 SENSORS.
- 3. REFER TO ENLARGED MECHANICAL ROOM PLANS FOR MECHANICAL ROOM NEW CONTINUATION.
- 4. NEW DUCT BRANCH TO EXISTING AIR DEVICE. RE-BALANCE AS SHOWN.

LEGEND:

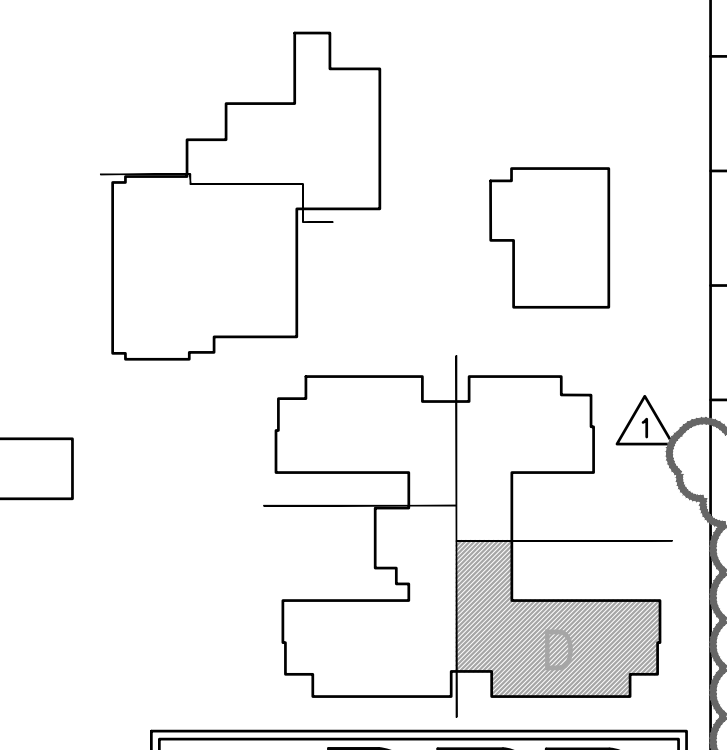
- NEW PIPING AND EQUIPMENT
- EXISTING PIPING AND EQUIPMENT



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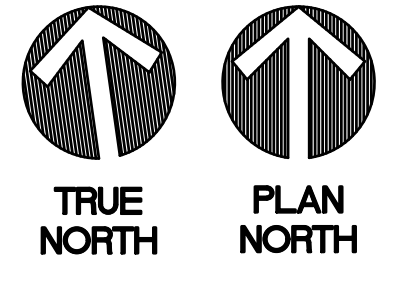


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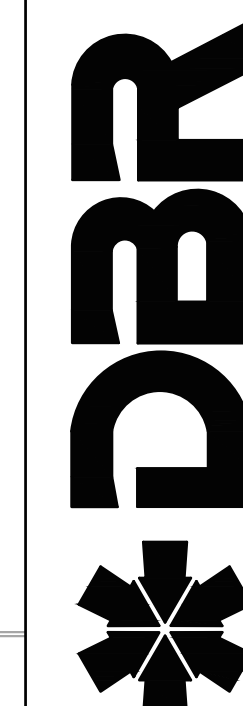
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LEVEL 2
MECHANICAL
PLAN - D.



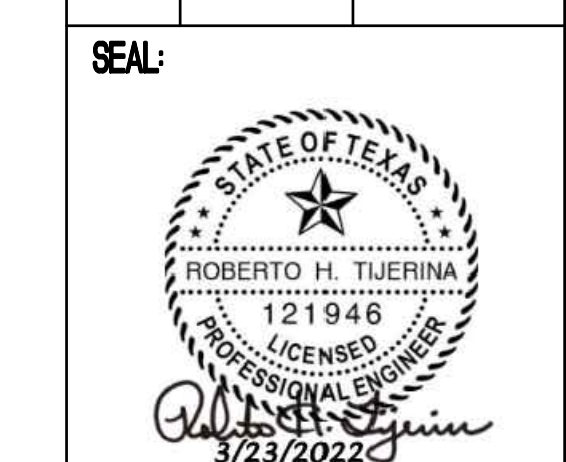
DBR
 9990 Richmond Avenue, South Building, Suite 300
 Houston, Texas 77042
 713.914.0888 p 713.914.0886 f
 TBPE Firm Registration No. 2234
 DBR Project Number 218007.002
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TBPE Firm Registration No. 2234

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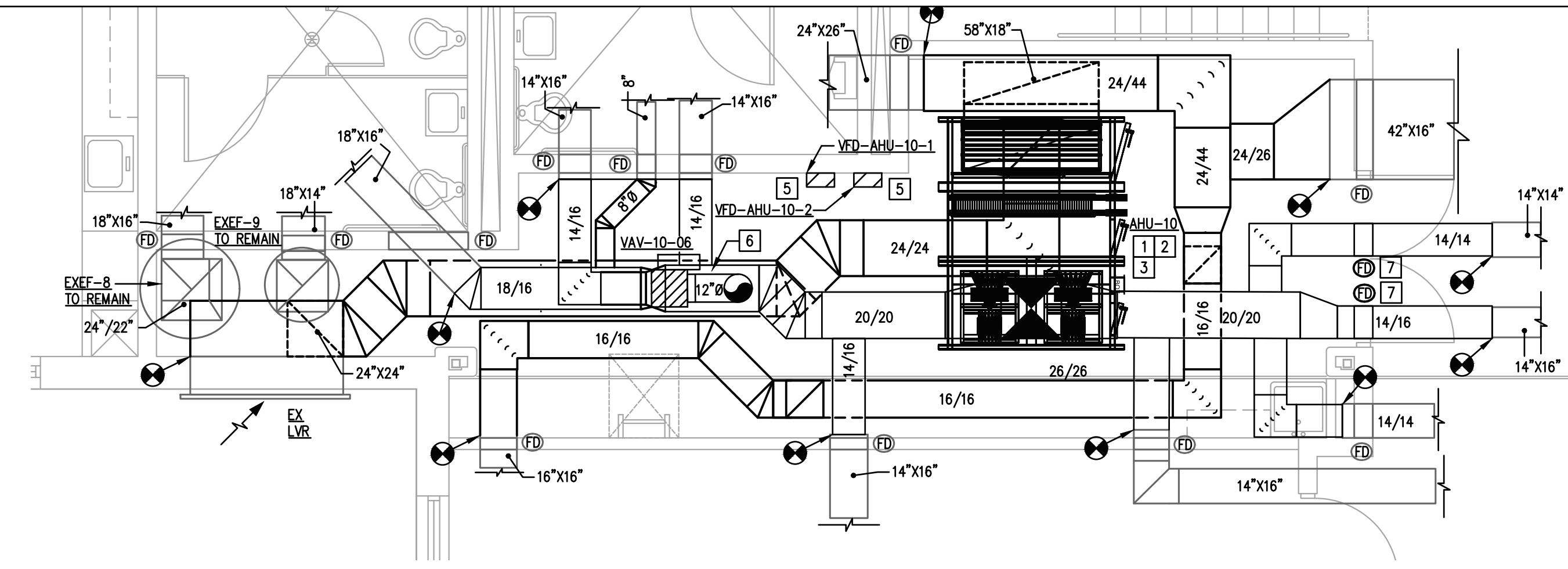


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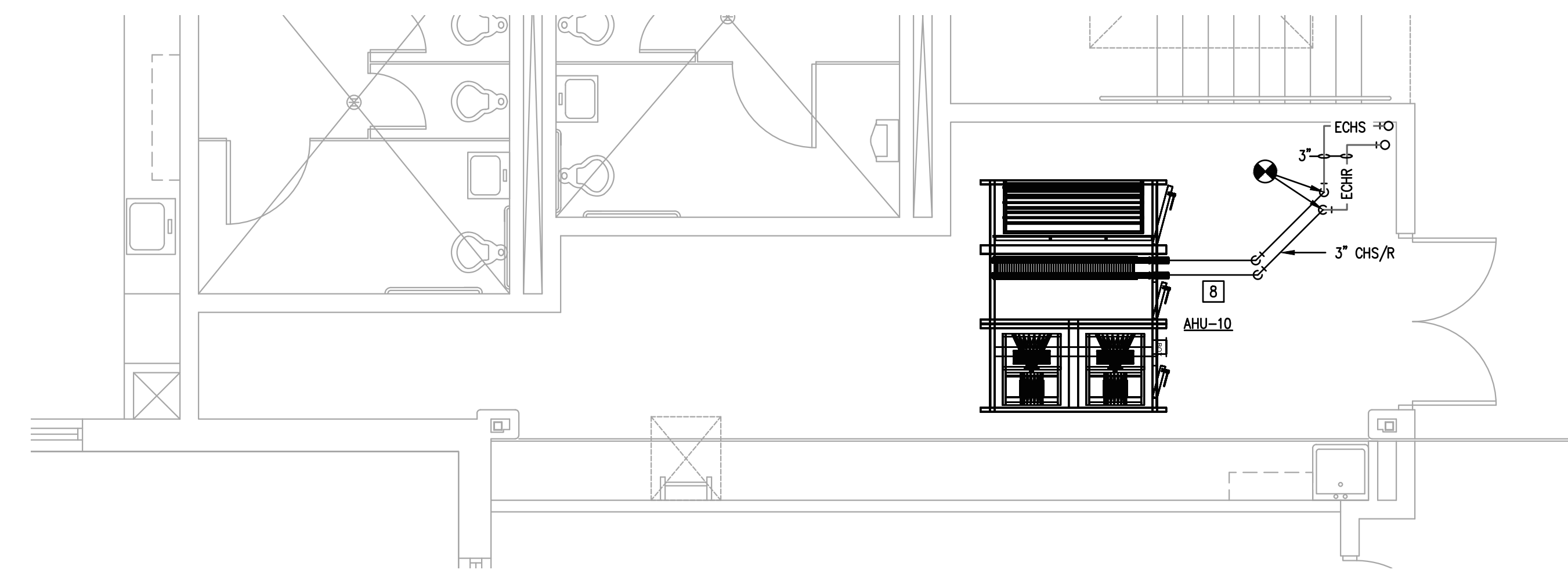
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MECHANICAL ROOM
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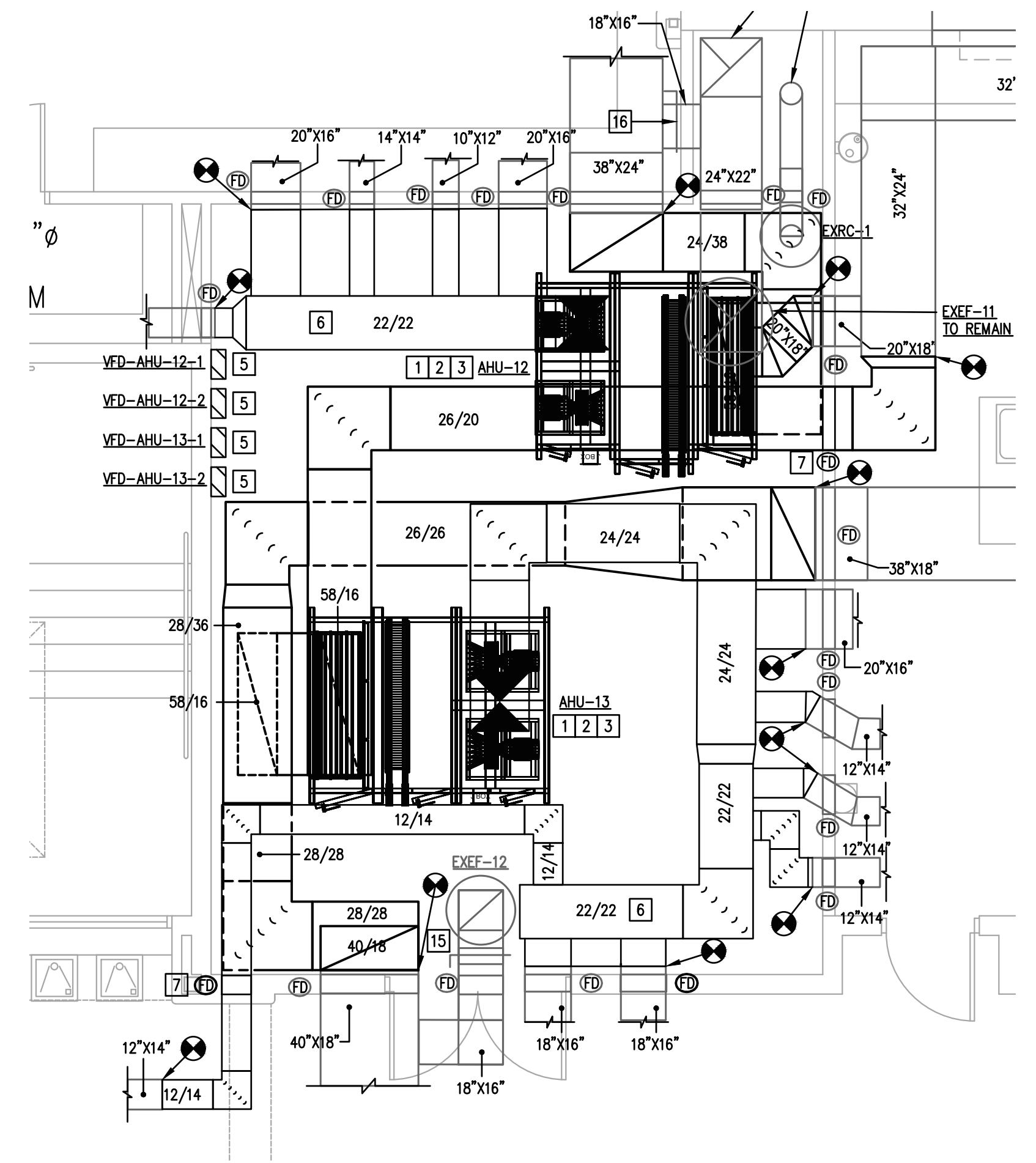
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| DBR Project Number | 218007.002 | | | |
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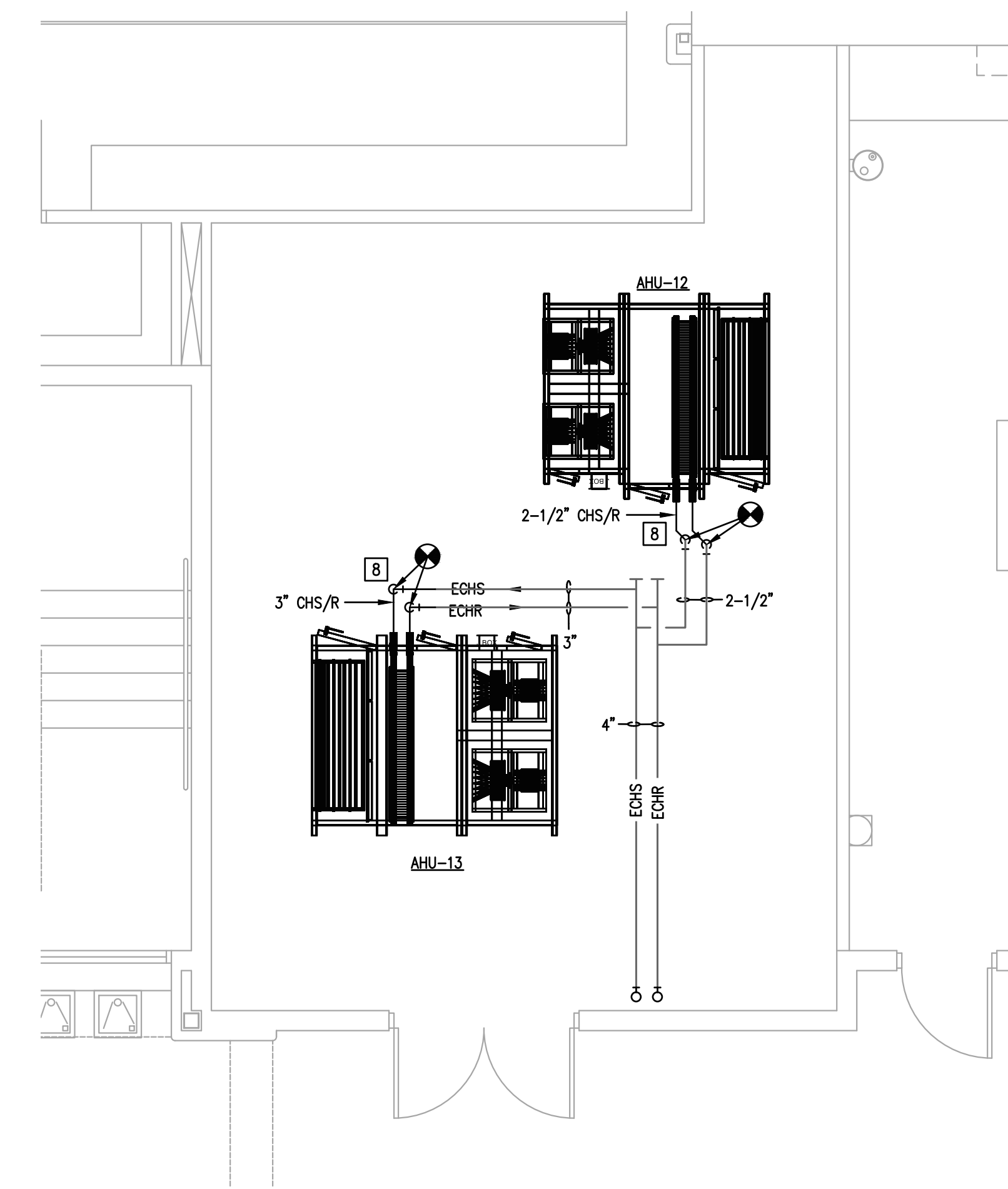
3 LEVEL 2B MECHANICAL AHU-10
M3.11 1/4" = 1'-0"



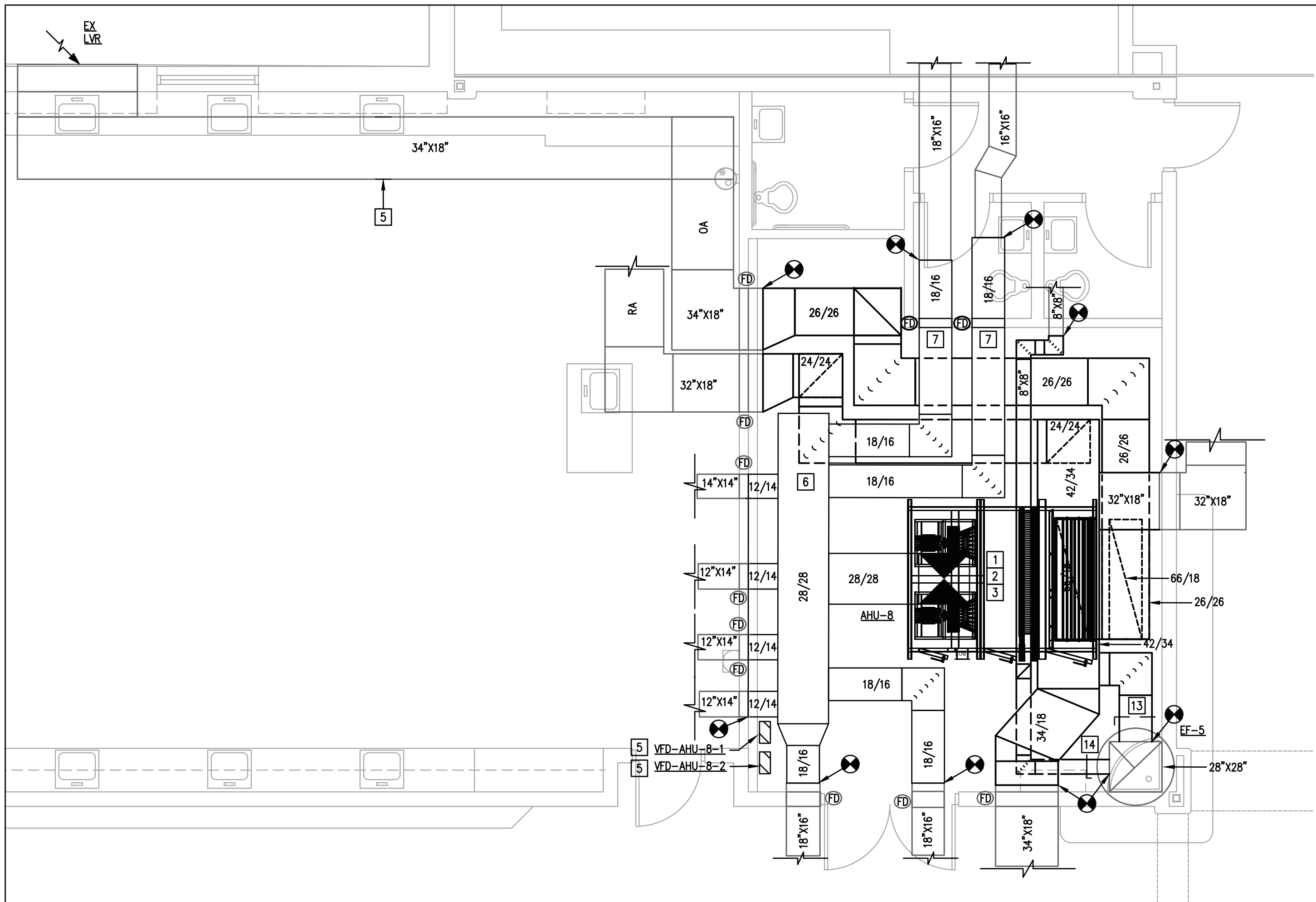
3 LEVEL 2B HYDRONIC PIPING AHU-10
M3.11 1/4" = 1'-0"



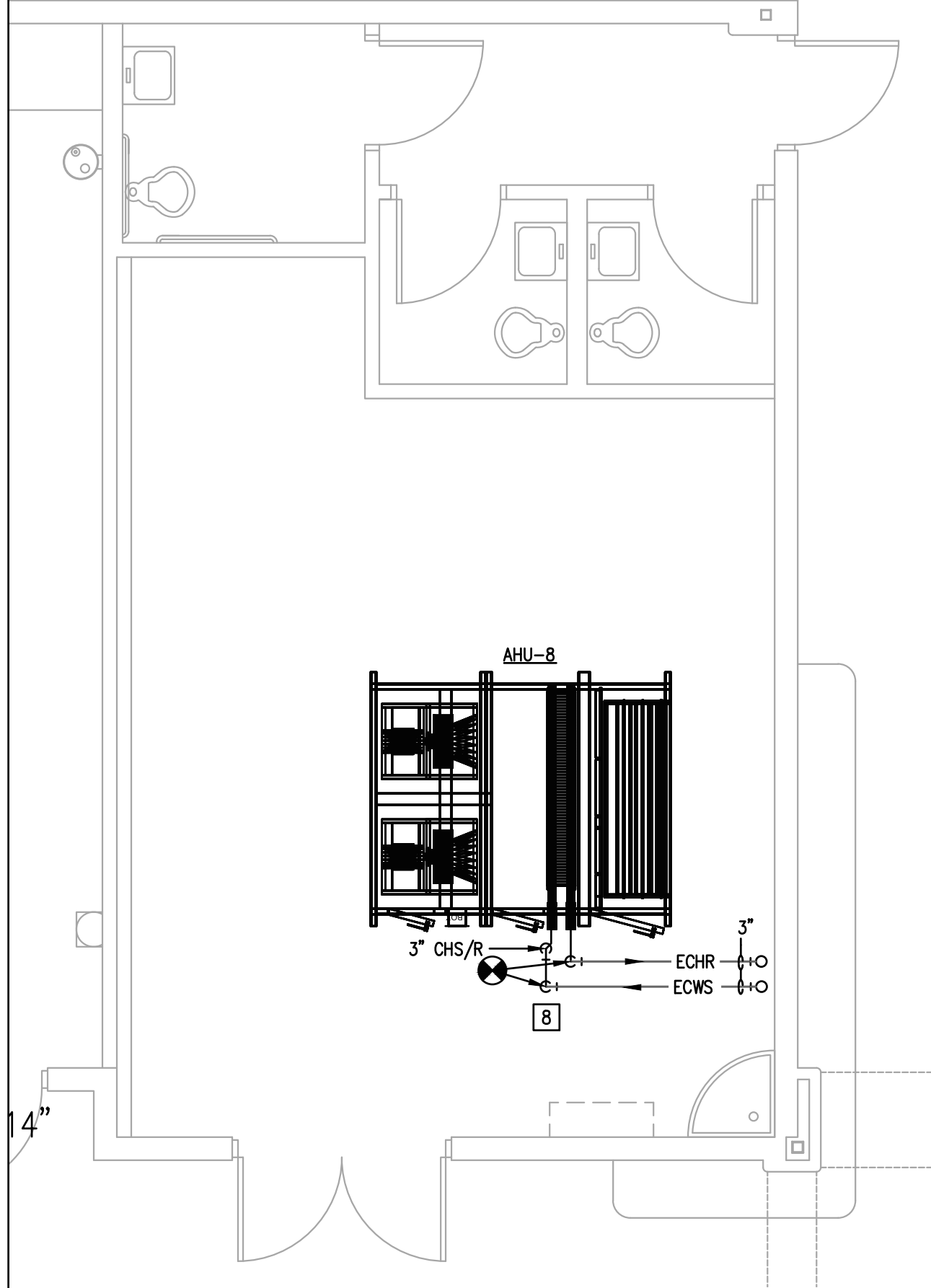
5 LEVEL 2D MECHANICAL AHU-13
M3.11 1/4" = 1'-0"



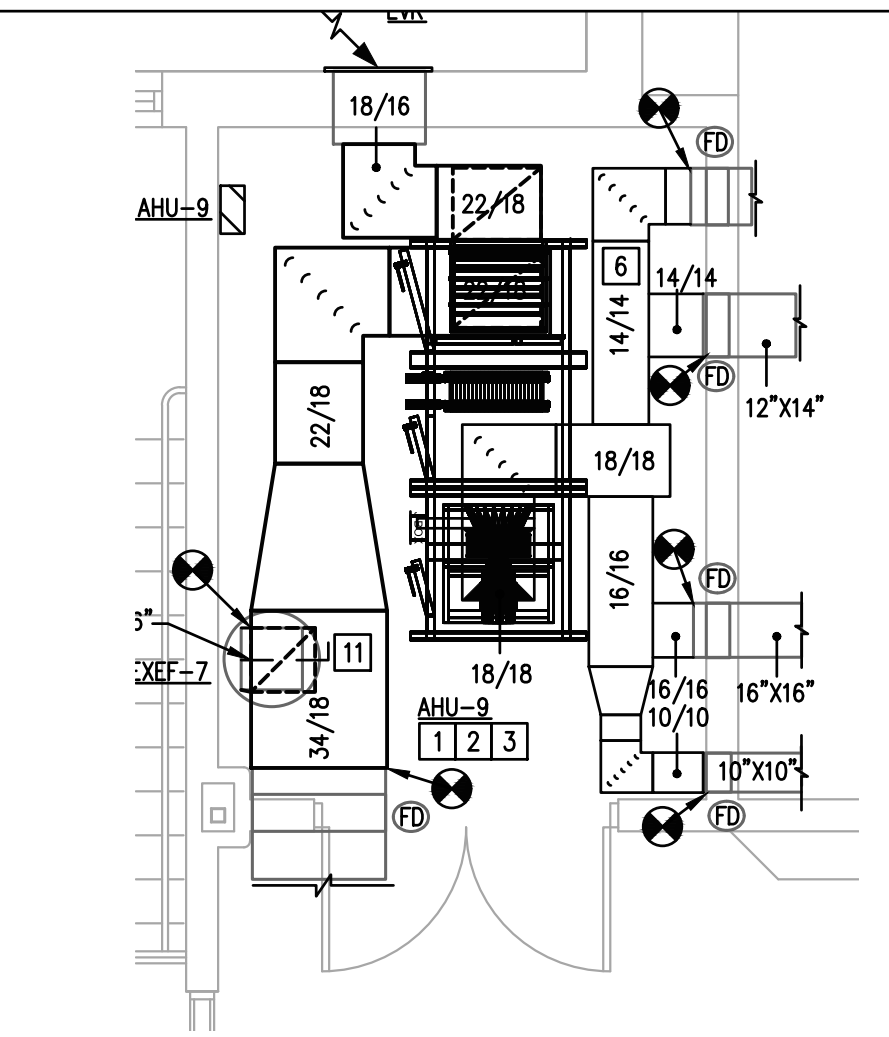
5 LEVEL 2D HYDRONIC PIPING AHU-13
M3.11 1/4" = 1'-0"



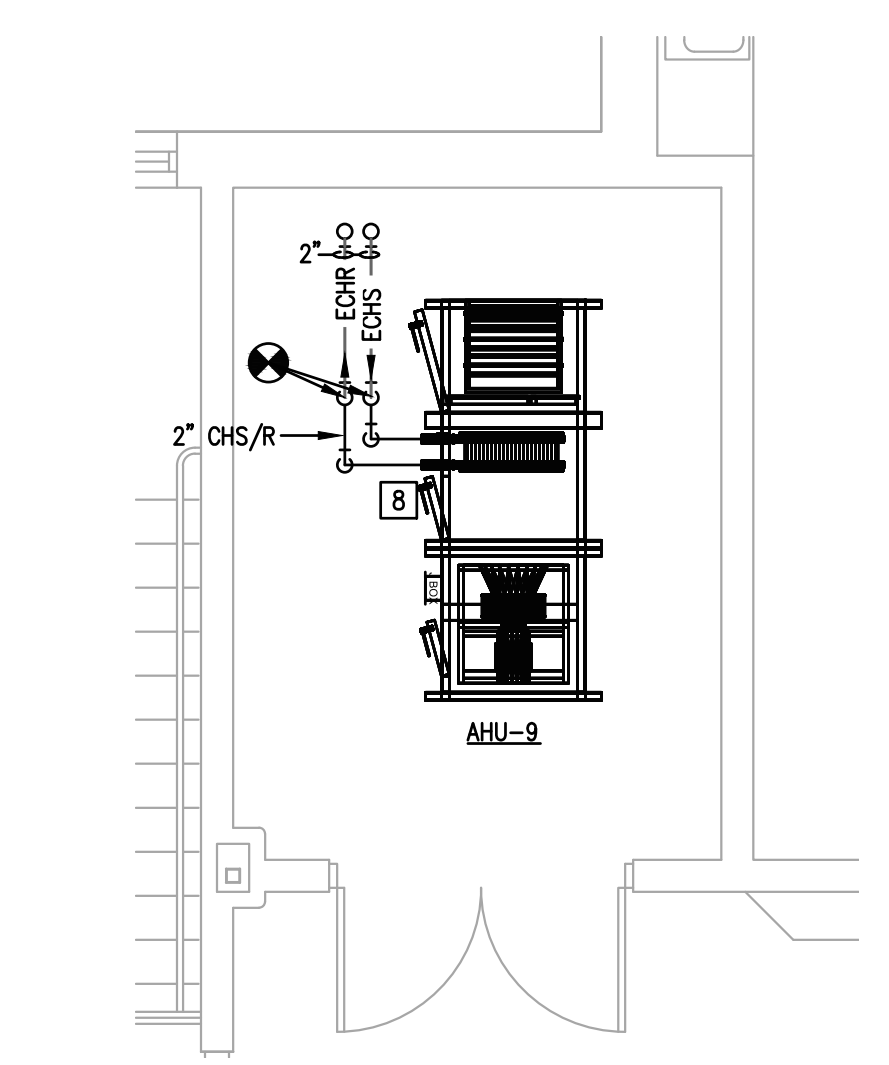
1 LEVEL 2A MECHANICAL AHU-8
M3.11 1/4" = 1'-0"



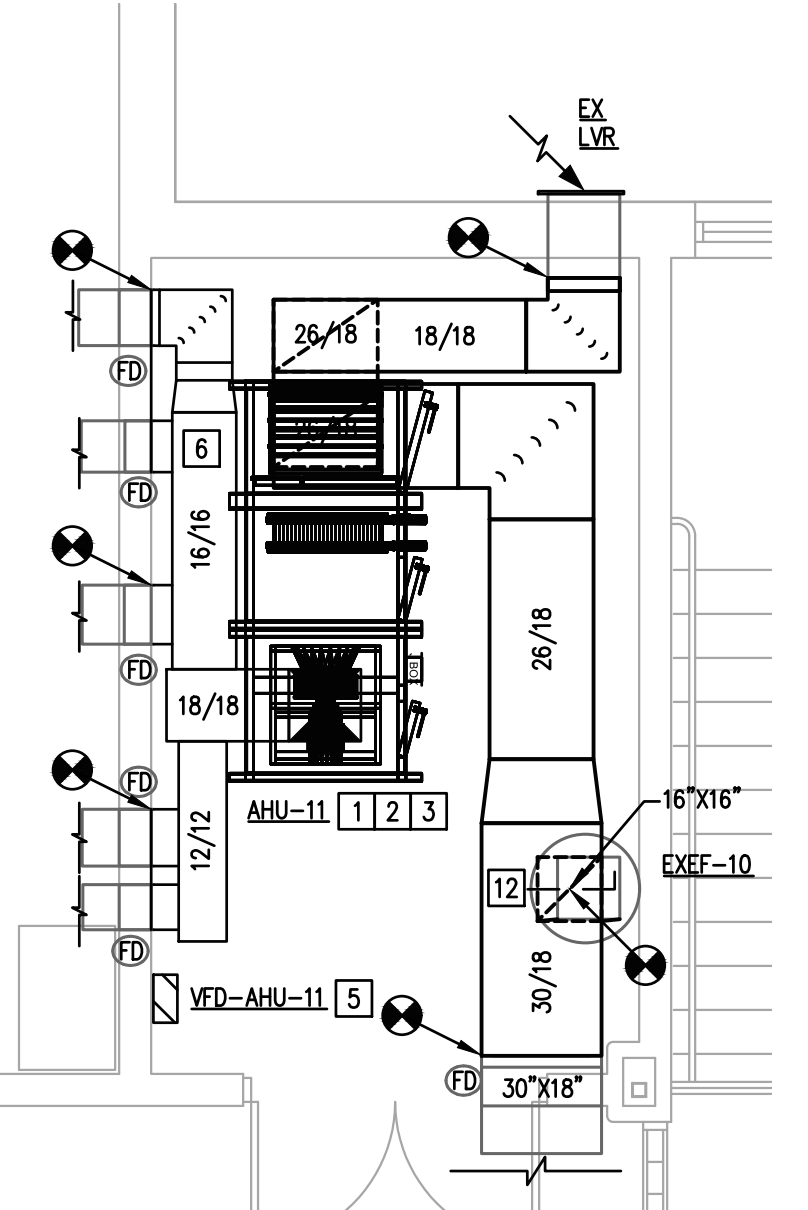
1 LEVEL 2A HYDRONIC PIPING AHU-8
M3.11 1/4" = 1'-0"



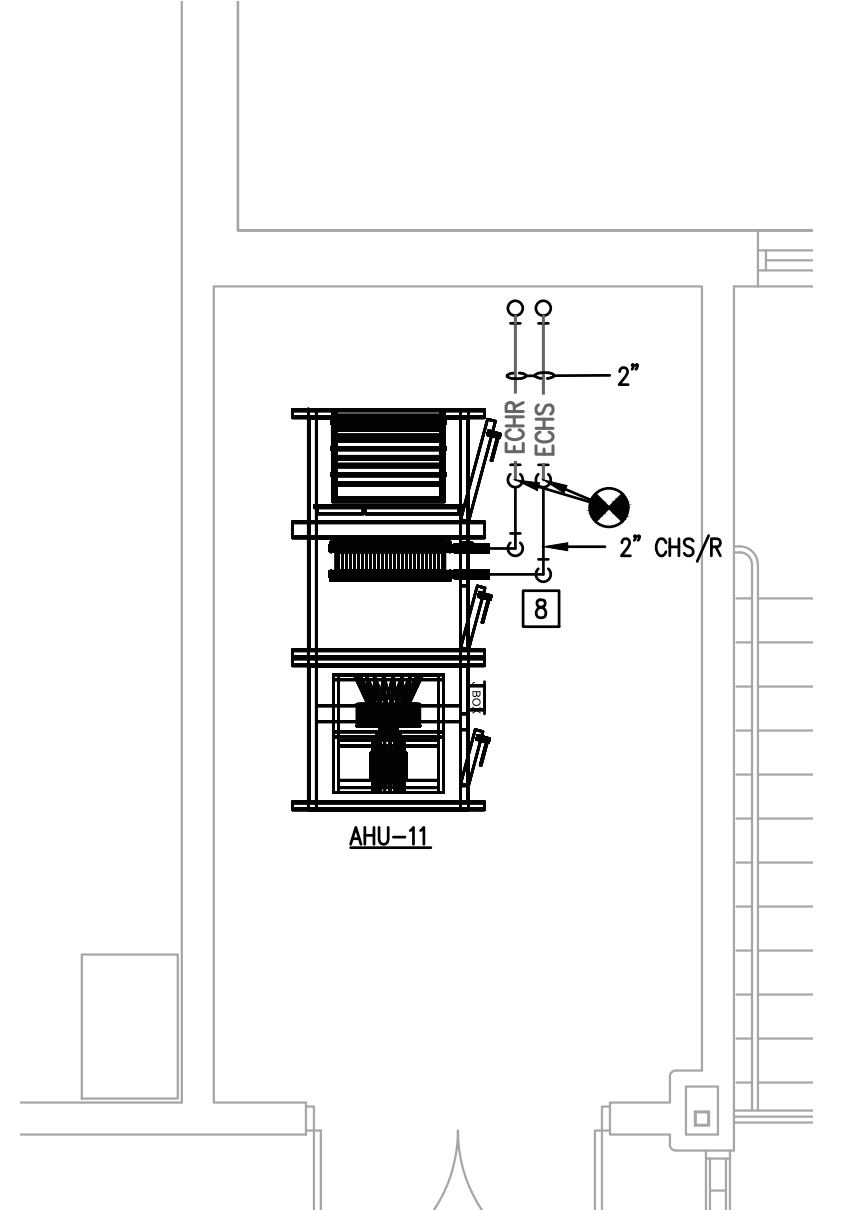
2 LEVEL 2B MECHANICAL AHU-9
M3.11 1/4" = 1'-0"



2 LEVEL 2B HYDRONIC PIPING AHU-9
M3.11 1/4" = 1'-0"



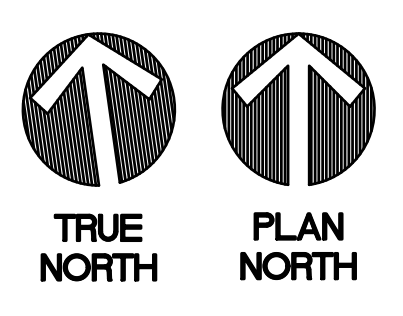
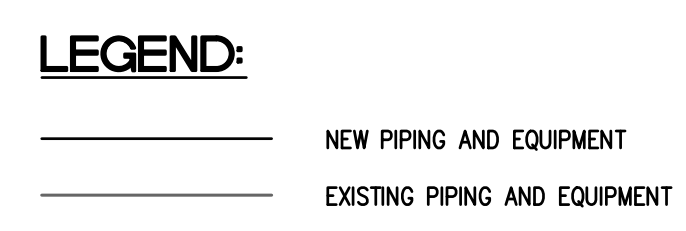
4 LEVEL 2C MECHANICAL AHU-11
M3.11 1/4" = 1'-0"



4 LEVEL 2C HYDRONIC PIPING AHU-11
M3.11 1/4" = 1'-0"

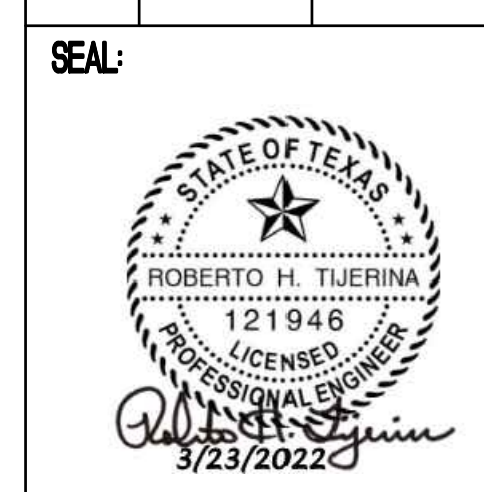
- MECHANICAL GENERAL NOTES:**
- REFER TO SHEET M0.01 FOR MECHANICAL GENERAL NOTES.
 - EXACT LOCATIONS OF HOT WATER DUCT COILS AND DAMPERS SHALL BE FIELD COORDINATED WITH OTHER TRADES TO AVOID CONFLICTS AND ALLOW ADEQUATE CLEARANCES.
 - MECHANICAL CONTRACTOR SHALL COORDINATE WITH ELECTRICAL CONTRACTOR FOR ALL ELECTRICAL POWER REQUIREMENTS.
 - MECHANICAL CONTRACTOR SHALL COORDINATE WITH ELECTRICAL CONTRACTOR PRIOR TO ACTUAL INSTALLATION OF TEMPERATURE AND HUMIDITY SENSORS.
 - ALL EQUIPMENT, DUCTWORK, CONTROLS AND ACCESSORIES FOUND TO BE ABANDONED SHALL BE REMOVED.
 - CONTRACTOR SHALL COORDINATE CONSTRUCTION WITH BUILDING FACILITY AS TO NOT DISTURB OPERATING HOURS.
 - CONTRACTOR SHALL COORDINATE CLEARANCES WITH ALL APPLICABLE TRADES TO ENSURE THAT ALL NECESSARY CODES ARE IN COMPLIANCE.
 - EXISTING DUCTWORK SHOWN AS A SINGLE LINE.

- MECHANICAL KEY NOTES:**
- MODIFY EXISTING HOUSE KEEPING PAD TO ACCOMMODATE THE NEW AIR HANDLING UNIT.
 - INSTALL SUPPLY AND RETURN AIR DUCTWORK AS INDICATED AND AS REQUIRED. FIELD VERIFY REQUIREMENT OF CONNECTION.
 - CONTRACTOR SHALL PROVIDE A NEW FULL SIZE INSULATED COPPER CONDENSATE DRAIN LINE. PROVIDE PIPE SUPPORT MAXIMUM 5'-0" O.C. S.PACING. SLOPE PIPING 1/8" PER FOOT. ROUTE AND DRAIN CONDENSATE LINE INDIRECTLY INTO NEAREST FLOOR SINK. REFER TO DETAIL 29/M6.01 FOR REQUIREMENTS.
 - PROVIDE AND INSTALL MODULATING CONTROL DAMPER WITH AFMS IN OUTSIDE AIR DUCT. DAMPER SHALL BE EQUAL TO RUSKIN MODEL "1AQS0X", HIGH PERFORMANCE, AIRFOIL, OPPOSED BLADE.
 - VFD SHALL BE PROVIDED BY MECHANICAL CONTRACTOR AND WIRED BY ELECTRICAL CONTRACTOR.
 - DUCT MOUNTED STATIC PRESSURE SENSOR.
 - PROVIDE NEW FIRE DAMPER.
 - CONTRACTOR SHALL ROUTE AND CONNECT EXISTING CHILLED WATER SUPPLY AND RETURN LINES TO THE NEW AIR HANDLING UNIT.
 - PROVIDE AND INSTALL MODULATING CONTROL DAMPER IN OUTSIDE AIR DUCT. DAMPER SHALL BE EQUAL TO RUSKIN MODEL "CD60", HIGH PERFORMANCE, AIRFOIL, OPPOSED BLADE.
 - PATCH, SEAL, AND RE-INSULATE DUCT.
 - CONNECT EXHAUST FAN TO RETURN AIR DUCT. PROVIDE NEW MANUAL BALANCING DAMPER IN RISER. BALANCE RELIEF AIR DUCT TO 1,200 CFM.
 - CONNECT EXHAUST FAN TO RETURN AIR DUCT. PROVIDE NEW MANUAL BALANCING DAMPER IN RISER. BALANCE RELIEF AIR DUCT TO 1,255 CFM.
 - CONNECT BUILDING RELIEF AIR DUCT TO EXHAUST FAN. PROVIDE NEW MANUAL BALANCING DAMPER. BALANCE RELIEF AIR DUCT TO 2,400 CFM.
 - CONNECT EXHAUST AIR DUCT TO EXHAUST FAN. PROVIDE NEW MANUAL BALANCING DAMPER. BALANCE EXHAUST AIR DUCT TO 175 CFM.
 - BALANCE BUILDING RELIEF AIR TO 1,800 CFM.
 - BALANCE BUILDING RELIEF AIR TO 1,1480 CFM.



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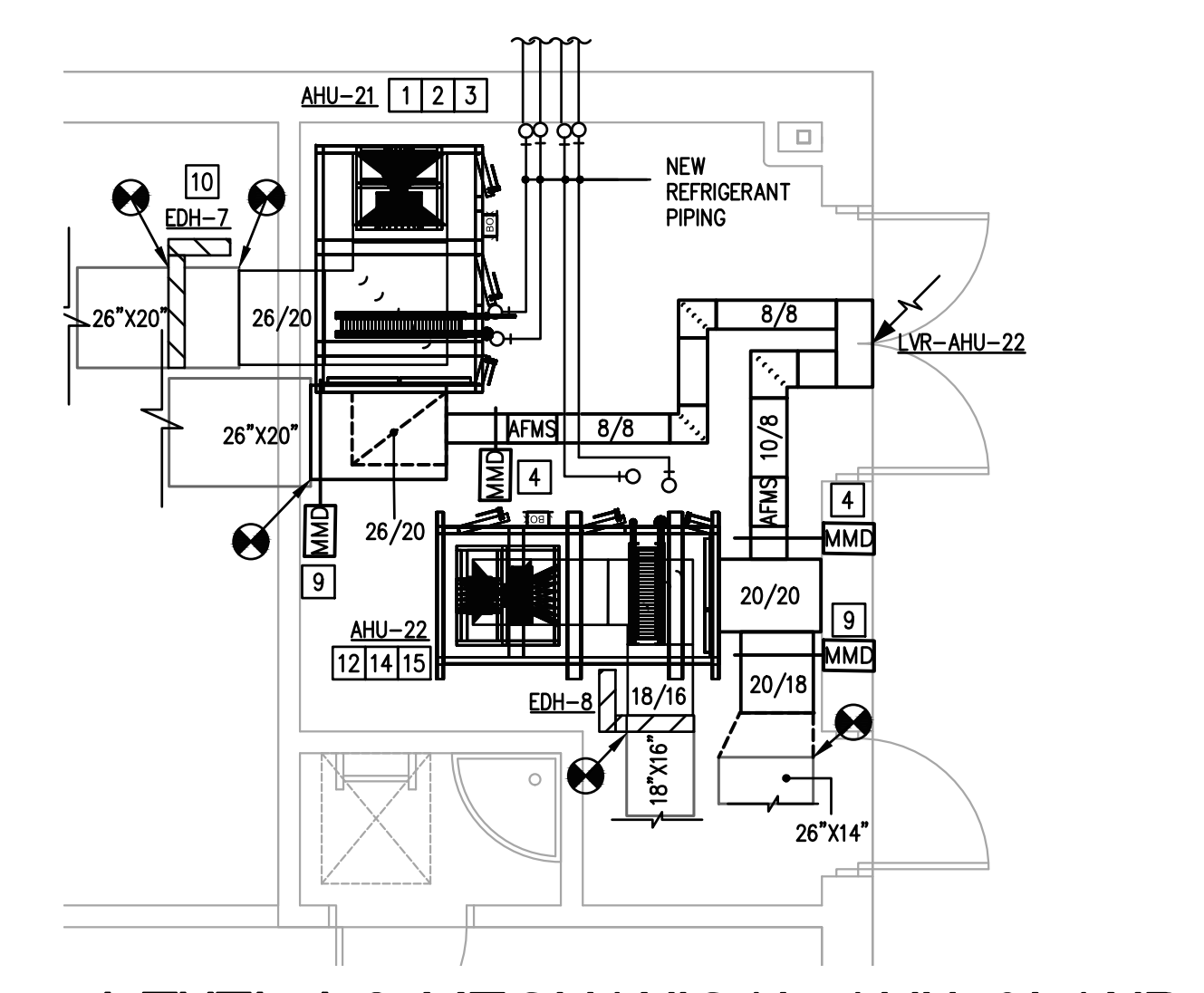
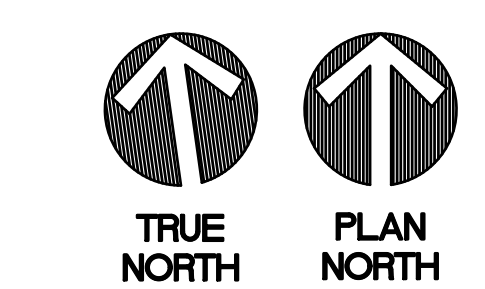
EDINBURG CONSOLIDATED INDEPENDENT SCHOOL DISTRICT
 MEMORIAL MS - HVAC IMPROVEMENTS
 3105 N DOOLITTLE RD, EDINBURG, TX 78542

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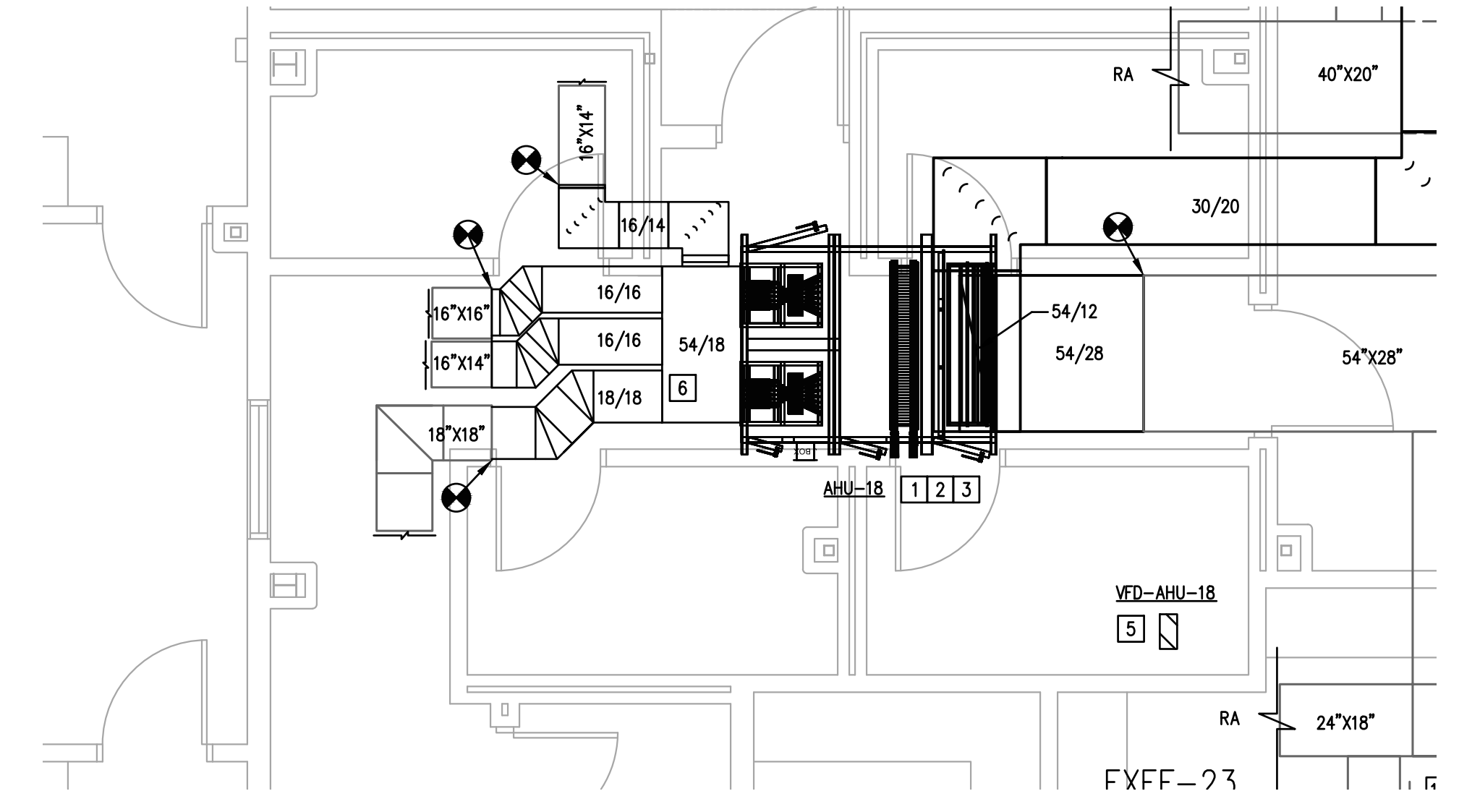
9990 Richmond Avenue, South Building, Suite 300
Houston, Texas 77042
713.914.0888 p. 713.914.0888 f
TBPE Firm Registration No. 2234



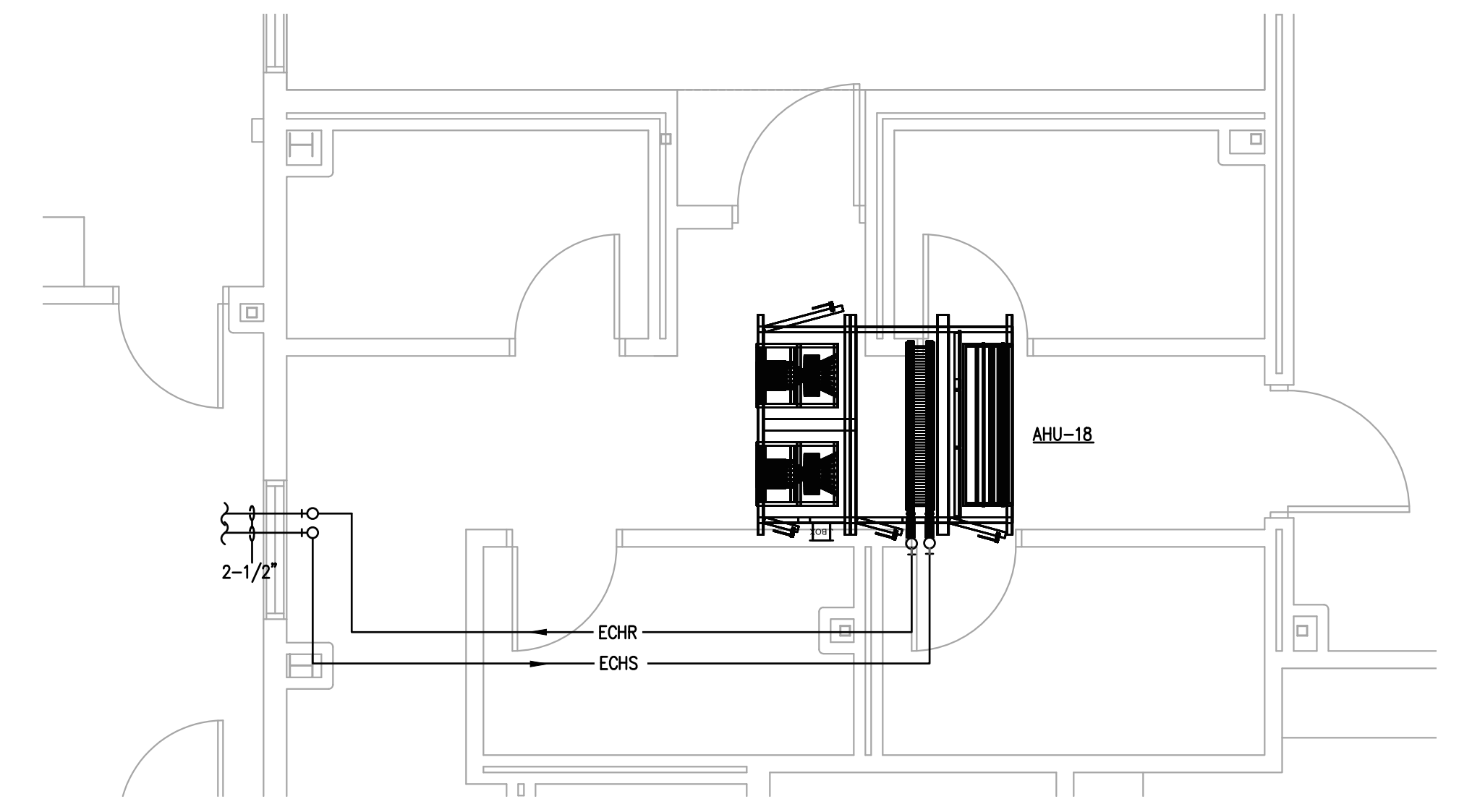
9 LEVEL 1 G MECHANICAL AHU-21 AND AHU-22
M3.12 1/4" = 1'-0"

- MECHANICAL GENERAL NOTES:**
- REFER TO SHEET M0.01 FOR MECHANICAL GENERAL NOTES.
 - EXACT LOCATIONS OF HOT WATER DUCT COILS AND DAMPERS SHALL BE FIELD COORDINATED WITH OTHER TRADES TO AVOID CONFLICTS AND ALLOW ADEQUATE CLEARANCES.
 - MECHANICAL CONTRACTOR SHALL COORDINATE WITH ELECTRICAL CONTRACTOR FOR ALL ELECTRICAL POWER REQUIREMENTS.
 - MECHANICAL CONTRACTOR SHALL COORDINATE WITH ELECTRICAL CONTRACTOR PRIOR TO ACTUAL INSTALLATION OF TEMPERATURE AND HUMIDITY SENSORS.
 - ALL EQUIPMENT, DUCTWORK, CONTROLS AND ACCESSORIES FOUND TO BE ABANDONED SHALL BE REMOVED.
 - CONTRACTOR SHALL COORDINATE CONSTRUCTION WITH BUILDING FACILITY AS TO NOT DISTURB OPERATING HOURS.
 - CONTRACTOR SHALL COORDINATE CLEARANCES WITH ALL APPLICABLE TRADES TO ENSURE THAT ALL NECESSARY CODES ARE IN COMPLIANCE.
 - EXISTING DUCTWORK SHOWN AS A SINGLE LINE.

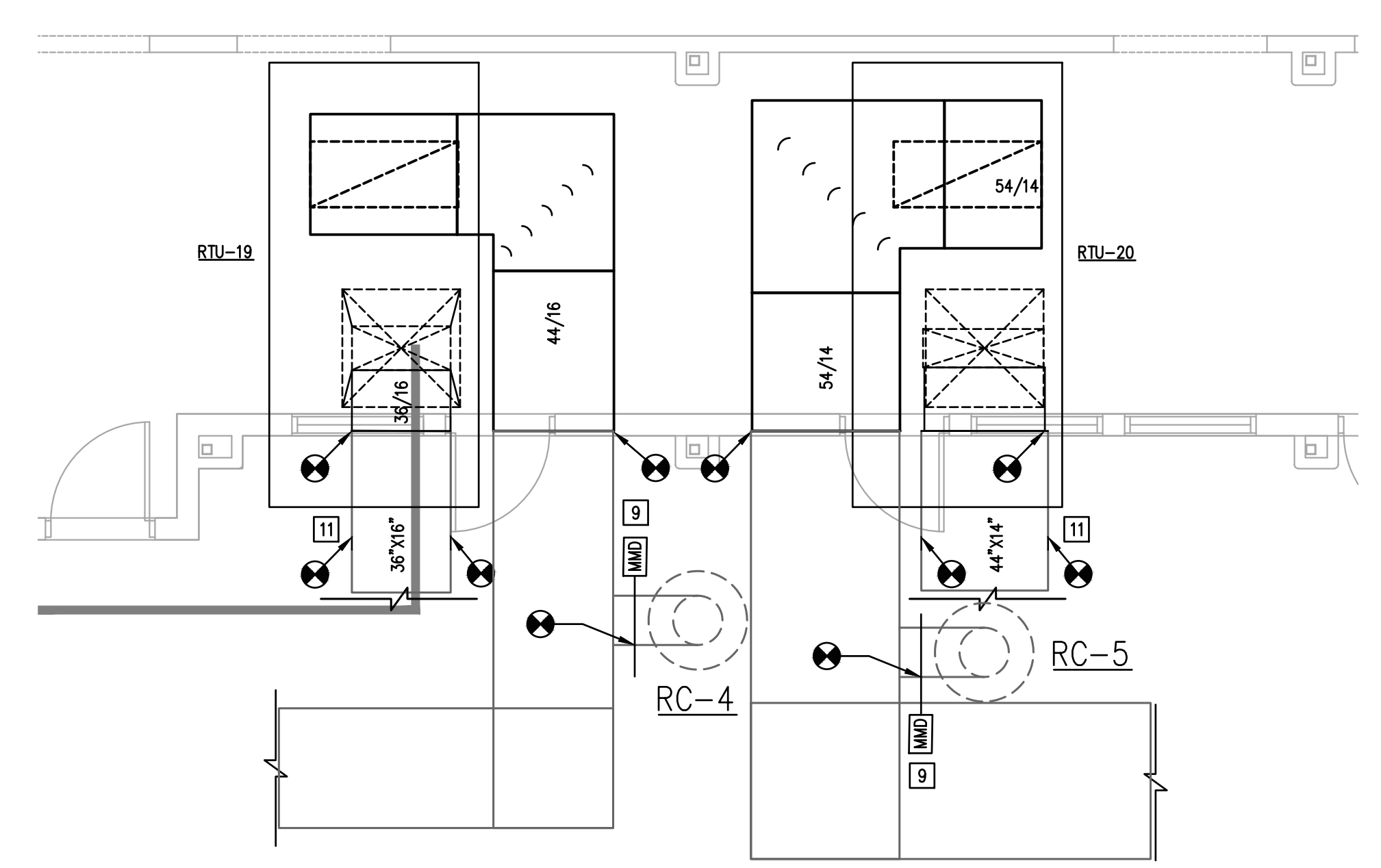
- MECHANICAL KEY NOTES: [1]**
- MODIFY EXISTING HOUSE KEEPING PAD TO ACCOMMODATE THE NEW AIR HANDLING UNIT.
 - INSTALL SUPPLY AND RETURN AIR DUCTWORK AS INDICATED AND AS REQUIRED. FIELD VERIFY REQUIREMENT OF CONNECTION.
 - CONTRACTOR SHALL PROVIDE A NEW FULL SIZE INSULATED COPPER CONDENSATE DRAIN LINE. PROVIDE PIPE SUPPORT MAXIMUM 5'-0" O.C. SPACING. SLOPE PIPING 1/8" PER FOOT. ROUTE AND DRAIN CONDENSATE LINE INDIRECTLY INTO NEAREST FLOOR SINK. REFER TO DETAIL 26/M6.01 FOR REQUIREMENTS.
 - PROVIDE AND INSTALL MODULATING CONTROL DAMPER WITH AFMS IN OUTSIDE AIR DUCT. DAMPER SHALL BE EQUAL TO RUSKIN MODEL "AD50X", HIGH PERFORMANCE, AIRFOIL, OPPOSED BLADE.
 - VFD SHALL BE PROVIDED BY MECHANICAL CONTRACTOR AND WIRED BY ELECTRICAL CONTRACTOR.
 - DUCT MOUNTED STATIC PRESSURE SENSOR.
 - PROVIDE NEW FIRE DAMPER.
 - CONTRACTOR SHALL ROUTE AND CONNECT EXISTING CHILLED WATER SUPPLY AND RETURN LINES TO THE NEW AIR HANDLING UNIT.
 - PROVIDE AND INSTALL MODULATING CONTROL DAMPER IN OUTSIDE AIR DUCT. DAMPER SHALL BE EQUAL TO RUSKIN MODEL "0360", HIGH PERFORMANCE, AIRFOIL, OPPOSED BLADE.
 - PROVIDE NEW ELECTRIC DUCT HEATER AS SCHEDULED. PATCH, SEAL, AND RE-INSULATE DUCT.
 - PATCH, SEAL, AND RE-INSULATE DUCT.
 - BALANCE BUILDING RELIEF AIR TO 1600 CFM.
 - PROVIDE AUXILIARY DRAIN PAN AND DRAIN LINE PER CODE.
 - EQUIPMENT SHALL BE SUSPENDED FROM STRUCTURE WITH UNI-STRUT AT HEIGHT THAT ALLOWS FOR EQUIPMENT TO BE SERVICED.
 - REFRIGERATION EQUIPMENT SHALL BE SUPPORTED USING EQUIPMENT SUPPORTS EQUAL TO PHIPRRTU-20 CORNER AND CENTER MODELS. INSTALL IN ACCORDANCE WITH MANUFACTURER'S INSTALLATION REQUIREMENTS. PROVIDE ISOLATION PADS AND 12" CLEARANCE FROM BOTTOM OF UNIT TO SURFACE ROOF.
 - ROUTE NEW REFRIGERANT LINES FROM AIR HANDLING UNIT BACK TO ASSOCIATED CONDENSING UNIT. SIZE AND INSTALL IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
 - REFRIGERATION PIPING ON ROOF SHALL BE SUPPORTED USING PIPE SUPPORTS EQUAL TO PHIPRPI0. INSTALL IN ACCORDANCE WITH MANUFACTURER'S INSTALLATION REQUIREMENTS FOR WIND SPEEDS/CONDITIONS AS NOTED. PROVIDE ISOLATION PADS AND MINIMUM 12" CLEARANCE FROM BOTTOM OF PIPE TO SURFACE ROOF.



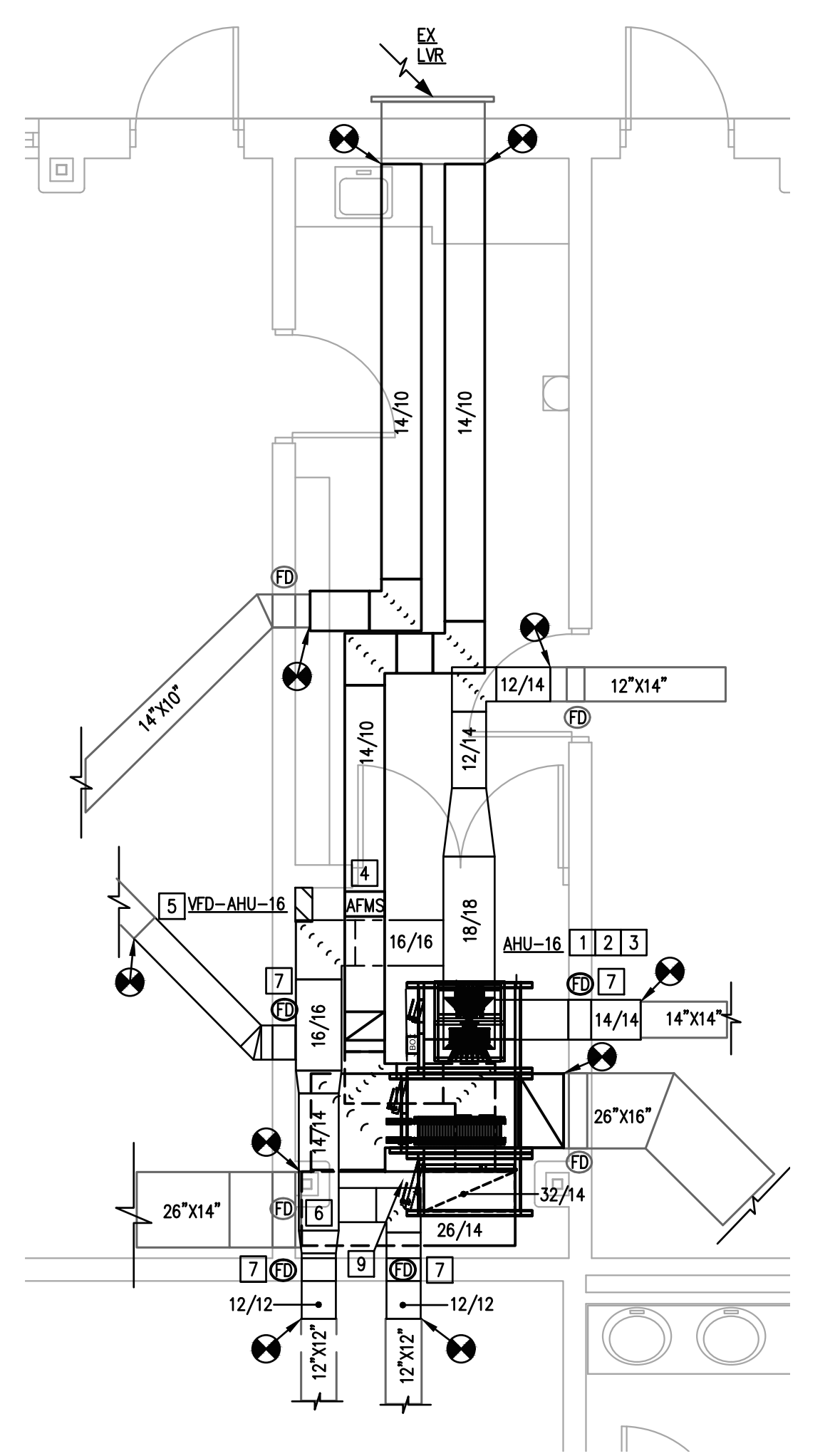
6 LEVEL 1E MECHANICAL AHU-18
M3.12 1/4" = 1'-0"



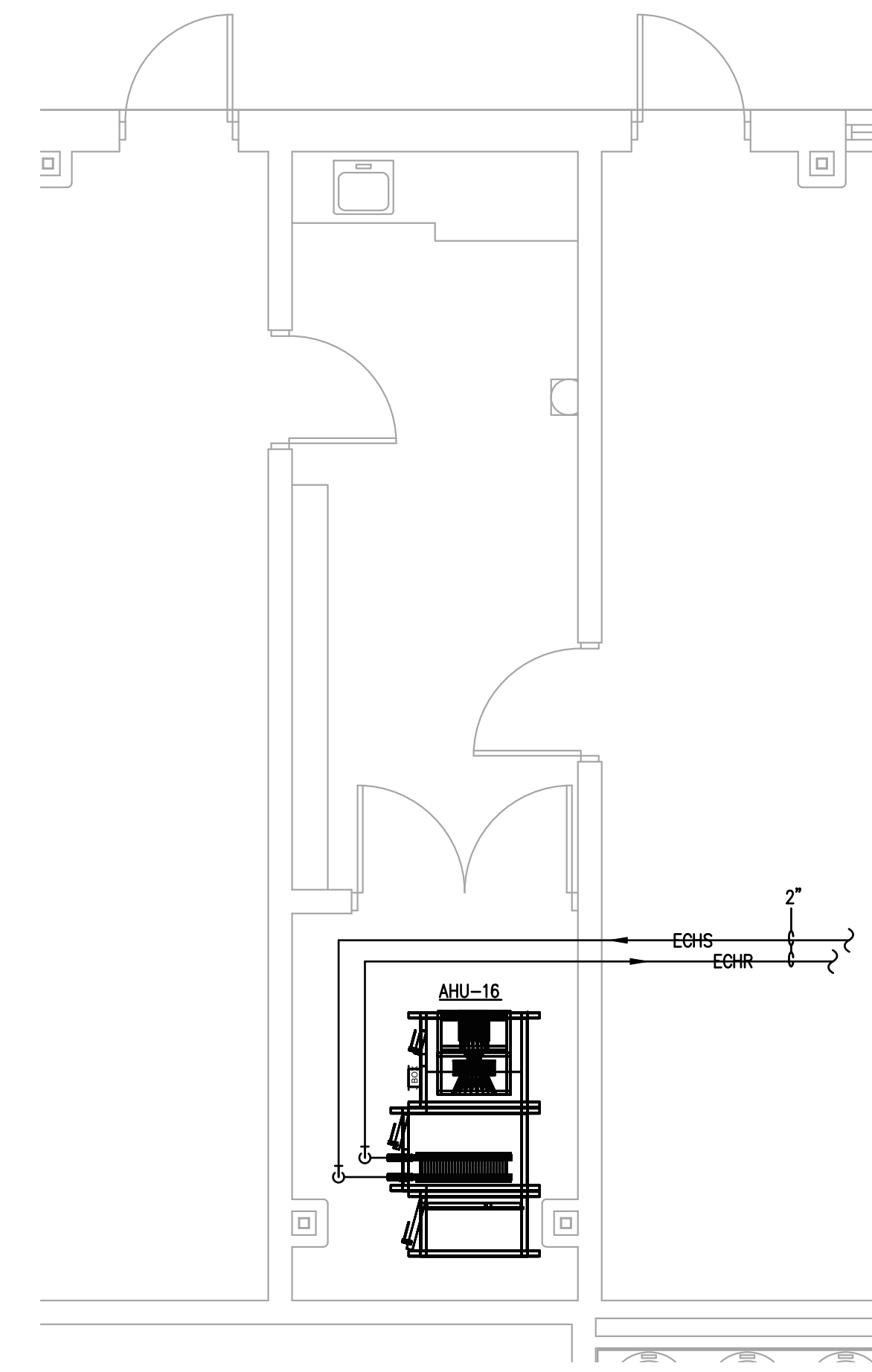
7 LEVEL 1E HYDRONIC PIPING AHU-18
M3.12 1/4" = 1'-0"



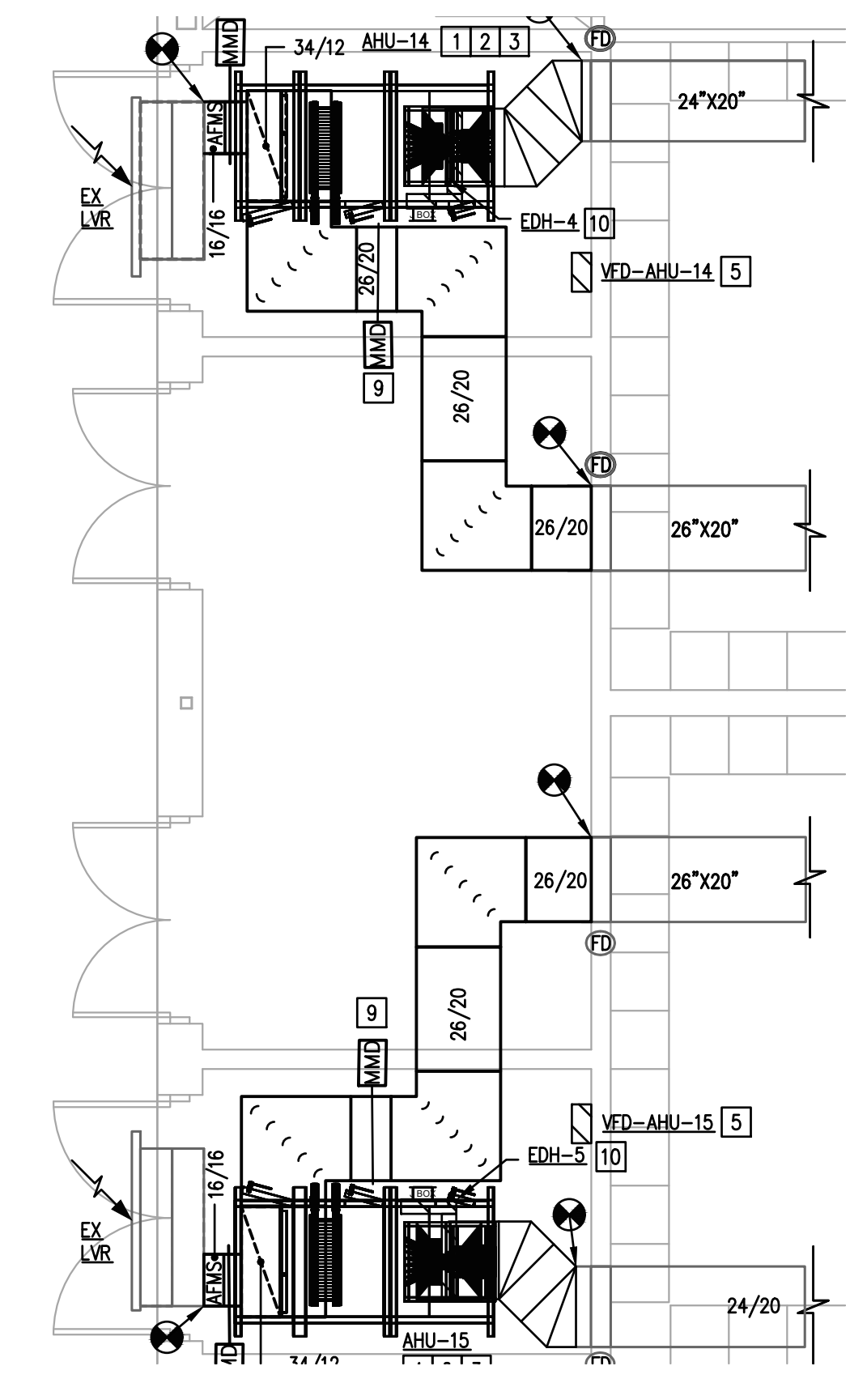
8 LEVEL 1G MECHANICAL RTU-19 AND RTU-20
M3.12 1/4" = 1'-0"



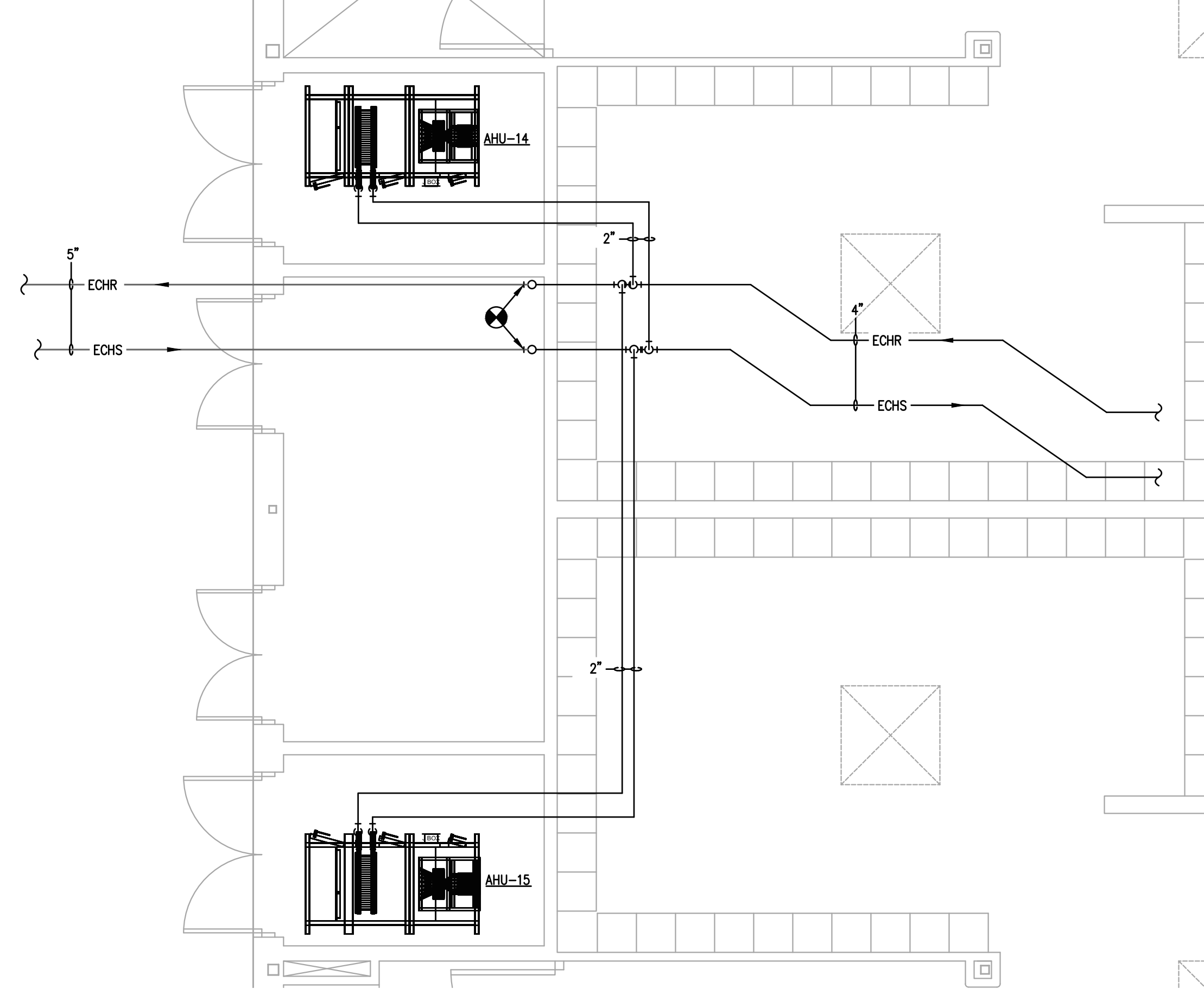
4 LEVEL 1E MECHANICAL AHU-16
M3.12 1/4" = 1'-0"



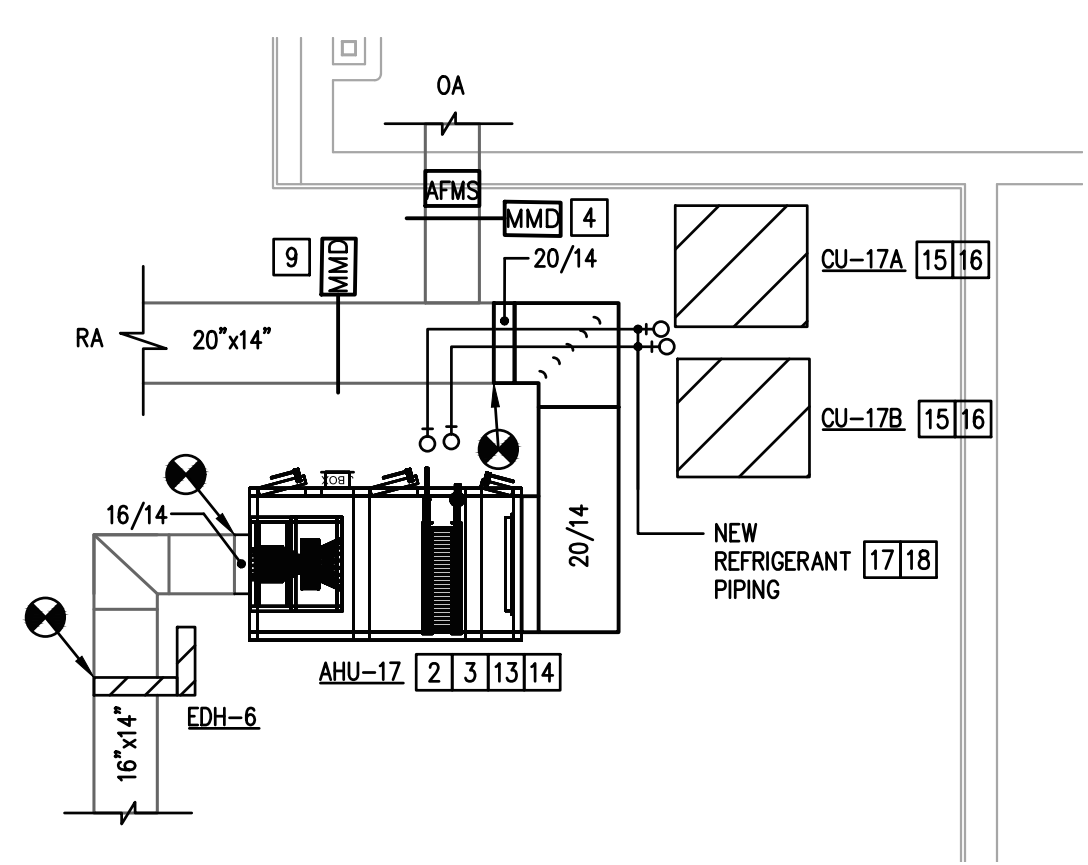
5 LEVEL 1E HYDRONIC PIPING AHU-16
M3.12 1/4" = 1'-0"



1 LEVEL 1F MECHANICAL AHU-14 AND AHU-15
M3.12 1/4" = 1'-0"



2 LEVEL 1F HYDRONIC PIPING AHU-14 AND AHU-15
M3.12 1/4" = 1'-0"

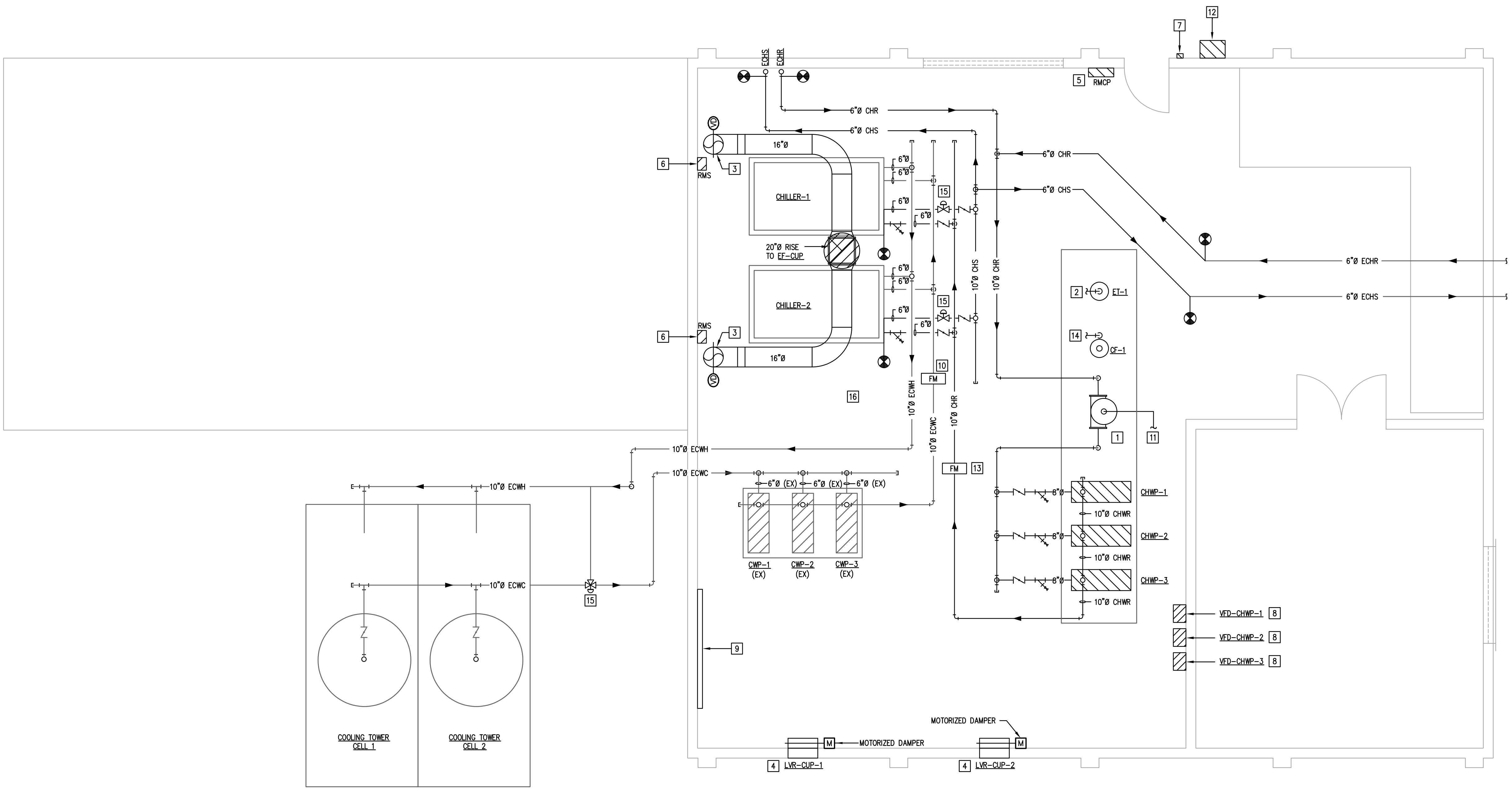


3 LEVEL 1E MECHANICAL AHU-17
M3.12 1/4" = 1'-0"

ALL ROOF MOUNTED UNITS AND ATTACHMENTS SHALL MEET WIND PRESSURE REQUIREMENTS PER ASSET 7 AND IBC. THE ENTIRE ASSEMBLY INCLUDING NEW CURBS AND/OR ADAPTER CURBS, SHALL BE FASTENED TO THE BUILDING STRUCTURE TO MEET ASSET 7 AND IBC.

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1 LEVEL 1H MECHANICAL CHILLED WATER PLANT
M3.13 1/4" = 1'-0"

MECHANICAL GENERAL NOTES:

- A. IT IS THE CONTRACTOR'S RESPONSIBILITY TO HAVE VERIFIED EXISTING JOBSITE CONDITIONS DURING THE BIDDING PERIOD. SO THEY HAVE OBTAINED THE SCOPE OF THE MECHANICAL DEMOLITION WORK INVOLVED AS A RESULT OF MODIFICATIONS TO THE EXISTING STRUCTURE. THE SCOPE OF WORK SHALL INCLUDE MATERIALS AND DUCTWORK CONSISTING OF DEVICES, EQUIPMENT, OR APPARATUS WHICH MAY BE REROUTED, RELOCATED, OR REMOVED EITHER TEMPORARILY OR PERMANENTLY, OR WHICH MUST BE REROUTED OR REMOVED EITHER ACCOMPLISHED. NOT ALL EXISTING CONDITIONS ARE NECESSARILY INDICATED ON DRAWINGS. CONTRACTOR SHALL DEMOLISH ONLY WHAT IS INDICATED TO BE DEMOLISHED ON DRAWINGS.
- B. CONTRACTOR SHALL COORDINATE WITH OWNER FOR ALL EQUIPMENT BEING REMOVED. OWNER SHALL RESERVE THE RIGHT TO CLAIM ALL EQUIPMENT, DUCTWORK, AND AIR DEVICES REMOVED DURING DEMOLITION.
- C. CONTRACTOR TO REPORT ANY DAMAGED EQUIPMENT THAT IS SHOWN AS EXISTING TO REMAIN TO THE OWNER PRIOR TO STARTING ALL WORK. ALL EQUIPMENT FOUND TO BE DAMAGED AT THE TIME OF SUBSTANTIAL COMPLETION, THAT HAD NOT BEEN REPORTED PRIOR TO CONSTRUCTION, CONTRACTOR TO REPAIR AT THEIR OWN COST.
- D. WHERE EQUIPMENT IS SCHEDULED TO BE DEMOLISHED/REMOVED AND REPLACED, THE CONTRACTOR SHALL PREP ALL OPENINGS, CONNECTIONS, FLASHING, PENETRATIONS, DUCT OR PIPING FITTINGS, ETC. TO ACCOMMODATE THE NEW EQUIPMENT. IT IS UNLIKELY THAT NEW EQUIPMENT SPECIFIED IN NEW WORK PHASE WILL DIRECTLY ALIGN WITH EXISTING CONDITIONS.
- E. MECHANICAL CONTRACTOR SHALL COORDINATE WITH ELECTRICAL CONTRACTOR FOR ALL ELECTRICAL POWER REQUIREMENTS.
- F. MECHANICAL CONTRACTOR SHALL COORDINATE WITH ELECTRICAL CONTRACTOR PRIOR TO ACTUAL INSTALLATION OF TEMPERATURE AND HUMIDITY SENSORS.
- G. ALL EQUIPMENT, DUCTWORK, CONTROLS AND ACCESSORIES FOUND TO BE ABANDONED SHALL BE REMOVED.
- H. CONTRACTOR SHALL COORDINATE CONSTRUCTION WITH BUILDING FACILITY AS TO NOT DISTURB OPERATING HOURS.
- I. CONTRACTOR SHALL COORDINATE CLEARANCES WITH ALL APPLICABLE TRADES TO ENSURE THAT ALL NECESSARY CODES ARE IN COMPLIANCE.

MECHANICAL KEY NOTES:

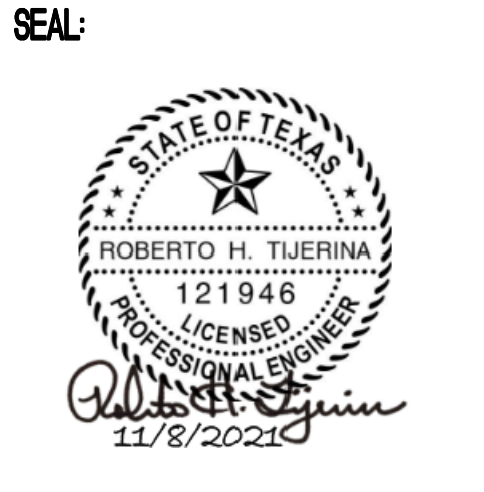
- 1. AIR SEPARATOR, AS-1, SHALL BE FLOOR SUPPORTED ON EXISTING HIGH HOUSE KEEPING PAD. OFFSET AIR VENT TO MINIMIZE WATER SPILLAGE ONTO UNIT. RE: TO 16/M6.01
- 2. EXPANSION TANK, ET-1, SHALL BE FLOOR MOUNTED ON EXISTING HIGH HOUSEKEEPING PAD. RE: TO 16/M6.01.
- 3. 16" EXHAUST DUCT. DROP DOWN TO 18" ABOVE FINISHED FLOOR. TERMINATE IN BIRD SCREEN. RACK TO PERIMETER WALL BALANCE INLET AT 1300 CFM.
- 4. PROVIDE LWR-CUP-1 & LWR-CUP-2 WITH CONTROL DAMPER. DAMPER SHALL REMAIN CLOSED UNLESS COMMANDED OPEN THRU REFRIGERANT MONITORING SYSTEM. MOUNT BOTTOM OF LOUVER AT 16" ABOVE FINISHED FLOOR (TOP OF SECOND OMI COURSE).
- 5. MOUNT REFRIGERANT MONITORING CONTROL PANEL (RMCP) 54" ABOVE FINISHED FLOOR TO TOP. UNIT SHALL COME COMPLETE WITH HORNS/STROBE ASSEMBLY. PROVIDE COMMUNICATIONS MODULE AS REQUIRED FOR DDC SYSTEM. INITIATION OF REFRIGERANT PURGE/ALARM CYCLE SHALL SEND AN ALARM THRU DDC. PROVIDE MANUAL RESET IN PANEL.
- 6. REFRIGERANT MONITORING SENSOR (RMS), MOUNT AT 18" ABOVE FINISHED FLOOR.
- 7. REFRIGERANT MONITORING SYSTEM HORN/STROBE. COORDINATE FINAL LOCATION WITH ARCHITECTURAL DOORS. UNIT SHALL BE WEATHER PROOF (EXTERIOR UNITS ONLY) AND MOUNTED 80" ABOVE FINISHED FLOOR. PROVIDE SIGN AT EACH LOCATION THAT READS "MACHINERY ROOM AUTHORIZED PERSONNEL ONLY". SIGN MUST ALSO INCLUDE WORDING TO PROHIBIT ENTERING MACHINERY ROOM WITHOUT PROPER PROTECTIVE EQUIPMENT DURING A REFRIGERANT ALARM CONDITION.
- 8. VFD SHALL BE PROVIDED BY MECHANICAL CONTRACTOR AND WIRED BY ELECTRICAL CONTRACTOR.
- 9. NEW CONDENSER WATER TREATMENT PUMPS/CONTROLLER IN THIS AREA. REFER TO DETAIL 24/M6.01 FOR PIPING/EQUIPMENT REQUIREMENTS. INSTALL 4X8X3/4" TREATED PLYWOOD AT 2'-0" ABOVE FINISHED FLOOR. PAINT IN ACCORDANCE WITH ARCHITECTURAL SPECS.
- 10. APPROXIMATE LOCATION OF CONDENSER WATER FLOW METER. SPECIFIC LOCATION SHALL BE IN ACCORDANCE WITH MANUFACTURER'S REQUIREMENTS.
- 11. NEW 1-1/2" MAKEUP WATER LINE AND RPZ BACKFLOW PREVENTER.
- 12. SELF CONTAINED BREATHING APPARATUS IN WEATHER PROOF ENCLOSURE.
- 13. APPROXIMATE LOCATION OF CHILLED WATER FLOW METER. SPECIFIC LOCATION SHALL BE IN ACCORDANCE WITH MANUFACTURER'S REQUIREMENTS.
- 14. THREE SOCK CHEMICAL FEEDER MOUNTED ON EXISTING HOUSE KEEPING PAD. REFER TO DETAIL 17/M6.01.
- 15. NEW MOTORIZED CONTROL VALVE EQUAL TO BRAY SERIES 70.

LEGEND:

- NEW PIPING AND EQUIPMENT
- EXISTING PIPING AND EQUIPMENT



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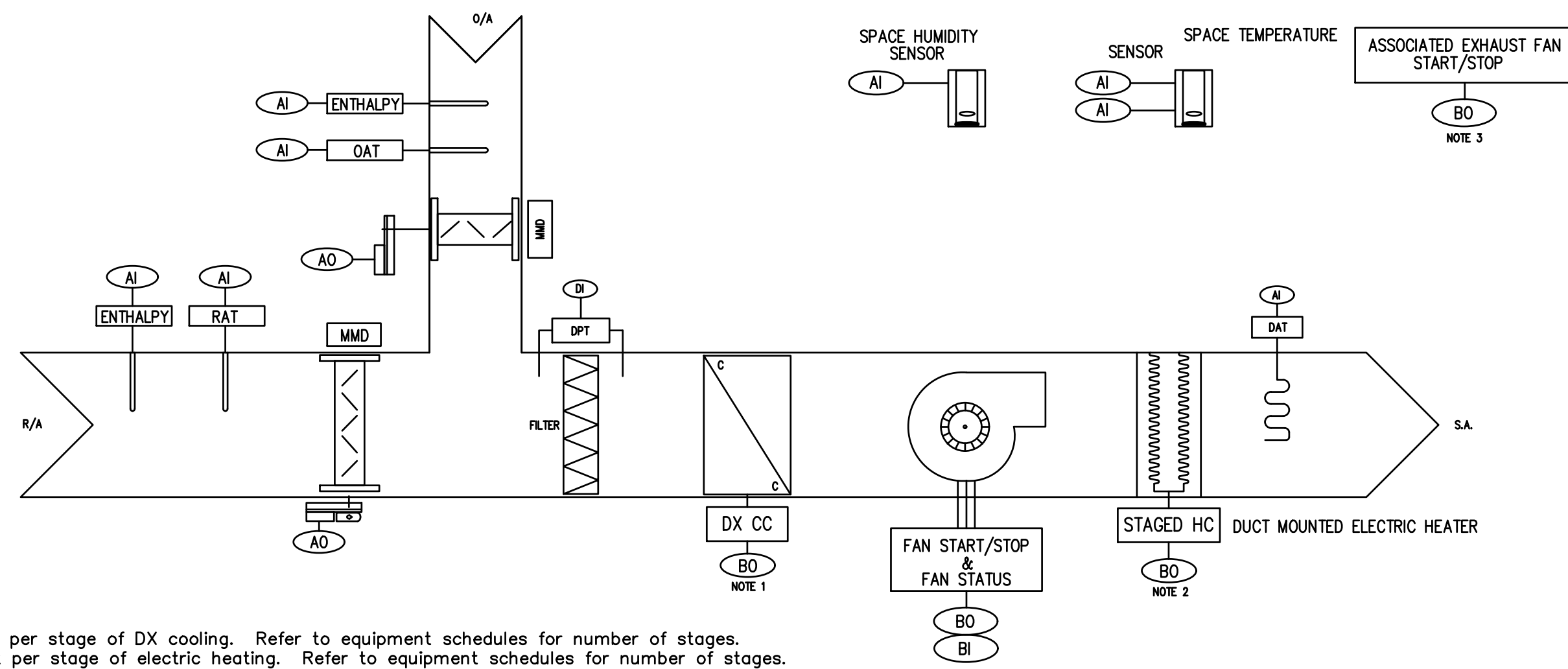


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MECHANICAL UPGRADES

DATE: 3/23/2022
 DRAWN BY: DBR
 CHECKED BY: DBR
 PROJECT NUMBER: 218017.000
 SHEET TITLE: ENLARGED MECHANICAL ROOM PLANS

SHEET NUMBER: M3.13
 DBR Project Number: 218007.002
 HA JA JB --- --

DBR
 9900 Richmond Avenue South Building, Suite 300
 Houston, Texas 77042
 713.914.0888 p 713.914.0888 f
 TBPE Firm Registration No. 2234
 DBR Project Number: 218007.002



- NOTES:**
1. Provide one control point per stage of DX cooling. Refer to equipment schedules for number of stages.
 2. Provide one control point per stage of electric heating. Refer to equipment schedules for number of stages.
 3. Provide one control point per fan.

Typical of AHU-21 and AHU-22

System Off - When the system is off:

- The outside air damper shall be closed.
- The return air damper shall be open.
- The supply air fan shall be off.
- The DX cooling coil shall be disabled.
- The electric heating coil shall be disabled.
- The control loops shall be disabled.

PRE-START MODE:

The system shall be enabled by an operator entered manual command at the EMCS or automatically by the EMCS based on the Optimal Start/Stop algorithm. Once enabled, the system shall operate per the **System Operation** section, as detailed below.

NIGHT-SETBACK MODE:

The system shall be enabled automatically by the EMCS when space temperature has exceeded Unoccupied Cooling or Heating Setpoint. Once enabled, the system shall operate per the **System Operation** section, as detailed below.

System Operation - When system start-up has been initiated:

- The outside air damper shall open and the supply air fan shall start. Following a confirmation of fan start status, the unit shall be controlled by one of the following four modes:
- COOLING MODE:** When the space temperature is above the Cooling Setpoint, the supply fan shall be energized and the DX cooling coil shall be staged to maintain the space temperature within +/- 0.5 °F of the Cooling Setpoint.
- HEATING MODE:** When the space temperature is below the Heating Setpoint, the supply fan shall be energized and the electric heating coil shall be staged to maintain the space temperature within +/- 0.5 °F of the Heating Setpoint.
- DE-HUMIDIFICATION MODE:** When the space humidity is above the space humidity high-limit setpoint, the supply fan shall be energized and the DX cooling coil shall be staged to maximum cooling. During this time, the electric heating coil shall be staged to maintain the discharge air temperature within +/- 0.5 °F of the reheat setpoint.

System Setpoints - The setpoints for the system shall be determined as follows:

- The Occupied Heating Setpoint shall be set initially at 70 °F (adjustable).
- The Occupied Cooling Setpoint shall be set initially at 74 °F (adjustable).
- The Unoccupied Heating Setpoint shall be set initially at 55 °F (adjustable).
- The Unoccupied Cooling Setpoint shall be set initially at 85 °F (adjustable).
- The space humidity high-limit setpoint shall be set initially at 60% RH (adjustable).
- The reheat setpoint shall be set initially at 72 °F (adjustable).
- The outside air flowrate setpoint shall be set at the scheduled flowrate.

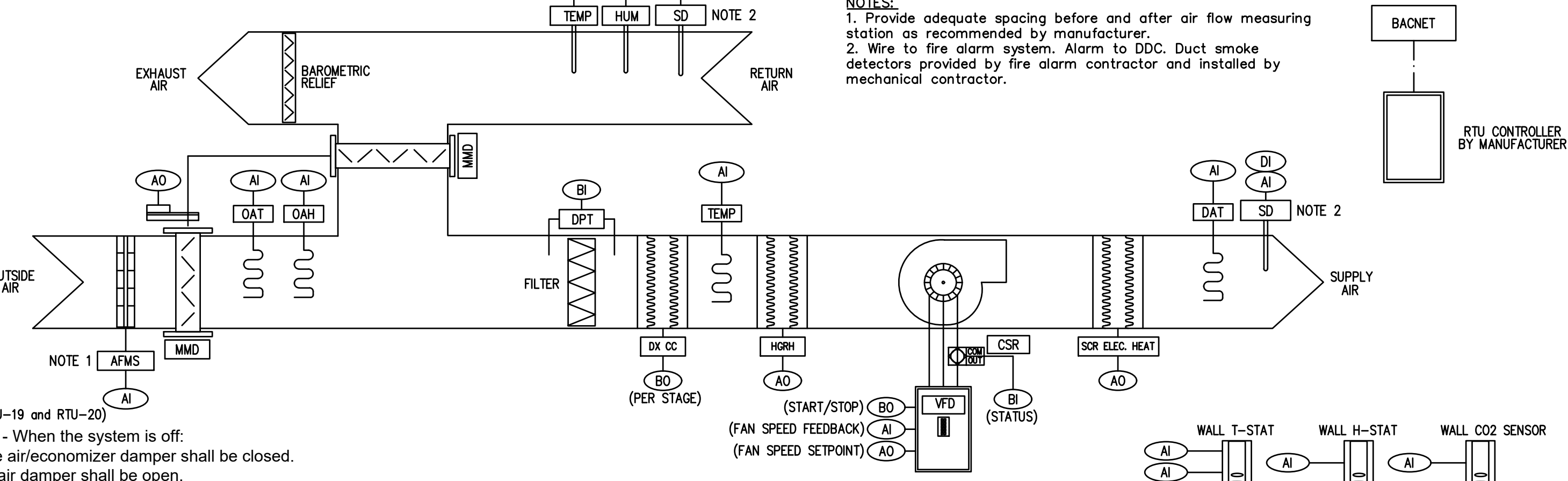
System Shutdown - System shutdown shall be initiated:

By operator entered manual command at the EMCS. Automatically by the EMCS based on Night-Setback or Time of Day schedule.

System Alarms - The EMCS shall generate an alarm if:

- If the supply air temperature is outside the established low and high limits, which shall be set at +/- 5 °F around the current setpoint.
- If the filter differential pressure exceeds the trip point initially set at 1.0 inch w.c. (adj)
- All alarms shall be inhibited when the supply fan is not operating except the space temperature alarms. The alarms, except the fan failure and the space temperature alarms, shall remain inhibited following startup of the unit for 2 minutes.

4 Single Zone FCU with Space Humidity Control and Airside Economizer - Control Schematic and Sequence of Operations
NOT TO SCALE



- NOTES:**
1. Provide adequate spacing before and after air flow measuring station as recommended by manufacturer.
 2. Wire to fire alarm system. Alarm to DDC. Duct smoke detectors provided by fire alarm contractor and installed by mechanical contractor.

Typical of RTU-19 and RTU-20

- System Off - When the system is off:**
- The outside air/economizer damper shall be closed.
 - The return air damper shall be open.
 - The supply air fan shall be off.
 - The compressors shall be disabled.
 - The hot gas reheat valve shall be closed.
 - The electric heater shall be disabled.
 - The control loops shall be disabled.

System Startup - System start-up shall be initiated:

By an operator entered manual command at the EMCS. Automatically by the EMCS based on Pre-Start Mode or Night-Setback Mode.

Pre-Start Mode:

The system shall be enabled automatically by the EMCS based on the Optimal Start/Stop algorithm. Once enabled, the system shall operate per the system Operation section, as detailed below. Operation of the system during Pre-Start Mode shall not include ventilation air. Economizer mode shall be permitted to operate per the System Operation section as detailed below.

Night Setback Mode:

The system shall be enabled automatically by the EMCS when the space temperature drifts outside the active Unoccupied Cooling or Heating Setpoint. Once enabled, the system shall operate per the System Operation section as detailed below. Operation of the system during Night-Setback Mode shall not include ventilation air. Economizer mode shall be permitted to operate per the System Operation section as detailed below.

System Operation - When system start-up has been initiated:

- The variable speed supply air fan shall start. Following a confirmation of fan start status, the supply fan speed shall be modulated to the minimum speed reference value. The speed of the fan shall not be adjusted by more than 20 Hz in any one-minute period. The unit shall be controlled by one of the following modes:
- COOLING MODE:** When the space temperature is above the Cooling Setpoint, the refrigerant compression shall be staged to maintain the active DX coil discharge air temperature setpoint. The supply fan VFD shall modulate from its minimum setting to its maximum setting as required to maintain the active space Cooling Setpoint.

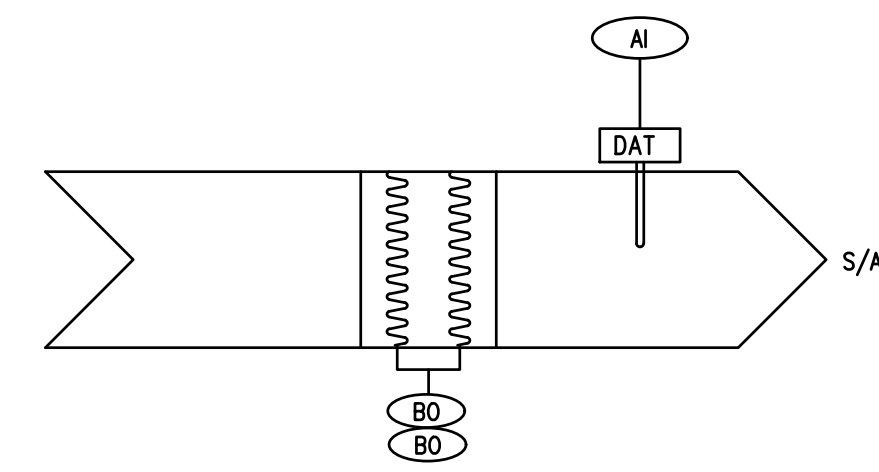
ECONOMIZER MODE: When the outside air enthalpy is less than 28.0 btu/lb, the outside air dry bulb temperature is less than 75°F, and there is a call for cooling, the outside air/economizer and return air dampers shall be modulated such that the unit provides 100% outside air for space cooling, and the refrigerant compression shall be staged to maintain the active DX coil discharge air temperature setpoint, and the supply fan VFD shall modulate from its minimum setting to its maximum setting as required to maintain the active space Cooling Setpoint. The barometric relief damper integral to the unit shall prevent building over-pressurization. If the outside air enthalpy exceeds 28.0 btu/lb or the outside air temperature exceeds 75°F, or if there is no longer a call for cooling, Economizer Mode shall be disabled.

HEATING MODE: When the space temperature is below the Heating Setpoint, the electric heater shall modulate from its minimum setting to its maximum setting as required to maintain the active space Heating Setpoint.

DE-HUMIDIFICATION MODE: When the space humidity is above the space humidity high-limit setpoint, the refrigerant compression shall be staged to maintain the active de-humidification DX coil discharge air temperature setpoint, the supply fan VFD shall modulate to its minimum setting, and the hot gas reheat valve shall modulate to maintain the reheat setpoint as required. The unit shall exit de-humidification mode when the space humidity setpoint has been satisfied for at least 10 minutes (adj).

DEMAND CONTROL VENTILATION - During occupied hours, the outside air flow rate shall modulate from its scheduled maximum flow rate to its scheduled minimum flow rate. If the space CO2 level is at least 100 ppm (adj) less than its active high limit setpoint for a time period of 10 minutes (adj), the outside air/economizer damper and return air damper shall be modulated to maintain the minimum scheduled outside air flow rate. If the space CO2 level rises to within 50 ppm (adj) of its active high limit, the outside air/economizer damper and return air damper shall be modulated to maintain the scheduled maximum outside air flow rate.

1 Direct Expansion Single Zone VAV Rooftop Unit w/ Elec. Heat, Econ., De-humidification, DCV - Control Schematic and Sequence of Operations
NOT TO SCALE



HEATING MODE: When the space temperature is below the Heating Setpoint, the electric heating coil shall be staged to maintain the space temperature within +/- 0.5 °F of the Heating Setpoint. To prevent short cycling, there shall be a user definable (adj.) delay between stages, and each stage shall have a user definable (adj.) minimum runtime. The electric duct heater discharge temperature shall not be allowed to go above the heating coil high-limit setpoint.

- The heating shall be enabled whenever:
- Outside air temperature is less than 65°F (adj.).
 - AND the zone temperature is below heating setpoint.
 - AND the associated air handling unit supply fan status is on.
 - AND the cooling is not active.

System Setpoints - The setpoints for the system shall be set as follows:

The Heating Setpoint shall be set initially at 70 °F (adjustable). The heating coil high-limit setpoint shall be set initially at 120 °F (adjustable). The design airflow rates shall be set at the values given in the Mechanical Drawings.

System Alarms - The EMCS shall generate an alarm as follows:

If the space temperature is 2 °F (adj.) above or below the heating setpoint depending upon active mode.

3 Electric Duct Heater - Control Schematic and Sequence of Operations
NOT TO SCALE

| | | | |
|-----|--|-----|----------------------------------|
| AI | ANALOG INPUT | CS | CURRENT SENSING RELAY |
| AO | ANALOG OUTPUT | FR | FREEZESTAT |
| DI | DIGITAL/BINARY INPUT | HL | HIGH STATIC LIMIT |
| DO | DIGITAL/BINARY OUTPUT | SP | STATIC PRESSURE TRANSMITTER |
| MD | ON-OFF MOTORIZED DAMPER | DPT | DIFFERENTIAL PRESSURE TRANSDUCER |
| MMD | MODULATING TYPE MOTORIZED DAMPER | FM | FLOW METER |
| MMS | AIR FLOW MEASURING STATION | FS | FLOW SWITCH |
| MV | CONTROL VALVE MODULATING TYPE | DAT | DISCHARGE AIR TEMPERATURE SENSOR |
| VD | VARIABLE FREQUENCY DRIVE | | |
| CSR | CURRENT SENSING RELAY | | |
| FR | FREEZESTAT | | |
| HL | HIGH STATIC LIMIT | | |
| SP | STATIC PRESSURE TRANSMITTER | | |
| DPT | DIFFERENTIAL PRESSURE TRANSDUCER | | |
| FM | FLOW METER | | |
| FS | FLOW SWITCH | | |
| DAT | DISCHARGE AIR TEMPERATURE SENSOR | | |
| WS | WALL SENSOR/THERMOSTAT | | |
| CS | CARBON DIOXIDE SENSOR | | |
| SP | SET POINT | | |
| S/A | SUPPLY AIR | | |
| R/A | RETURN AIR | | |
| O/A | OUTSIDE AIR | | |
| HC | HEATING COIL | | |
| CC | COOLING COIL | | |
| DC | DIRECT EXPANSION COOLING COIL | | |
| PCV | PRESSURE INDEPENDENT CHARACTERIZED CONTROL VALVE | | |
| AC | AIRFLOW CROSS | | |
| PS | PRESSURE INDEPENDENT CHARACTERIZED CONTROL VALVE | | |
| PS | PRESSURE INDEPENDENT CHARACTERIZED CONTROL VALVE | | |

2 CONTROL SCHEMATIC LEGEND
NOT TO SCALE



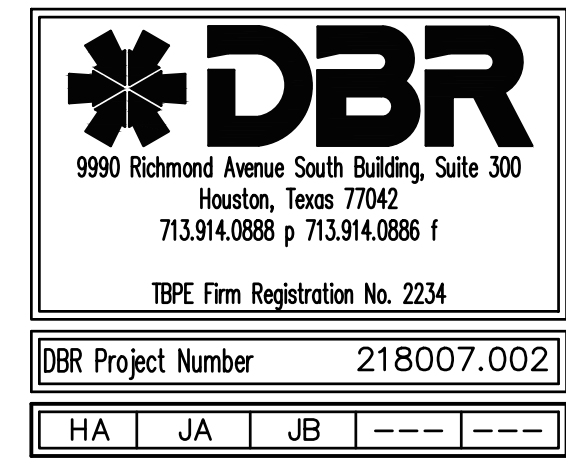
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EDINBURG CONSOLIDATED INDEPENDENT SCHOOL DISTRICT
MEMORIAL MS - HVAC IMPROVEMENTS
 3105 N DOOLITTLE RD, EDINBURG, TX 78542

DATE: 3/23/2022
 DRAWN BY: DBR
 CHECKED BY: DBR
 PROJECT NUMBER: 218007.002
 SHEET TITLE: MECHANICAL CONTROLS

SHEET NUMBER: M4.01
 DBR Project Number: 218007.002
 HA JA JB



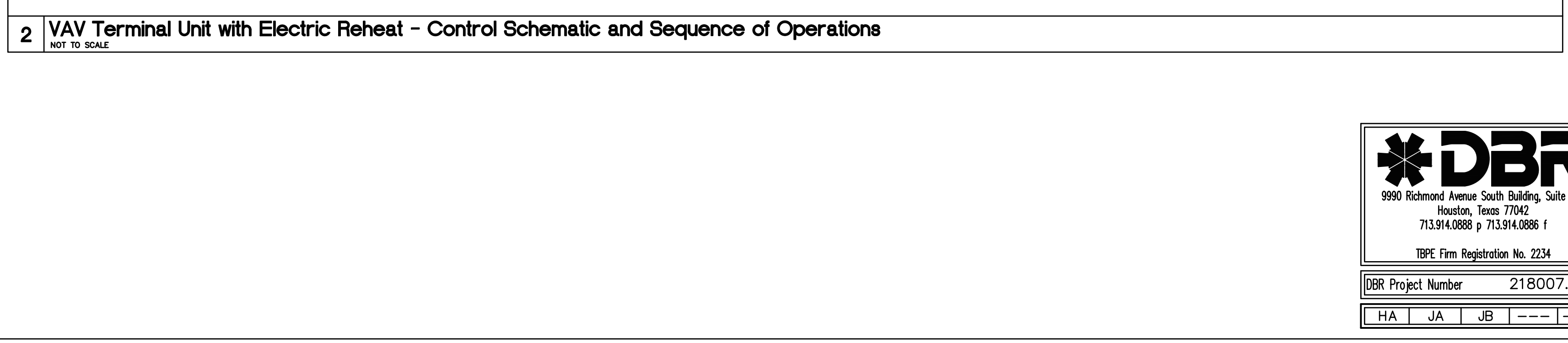
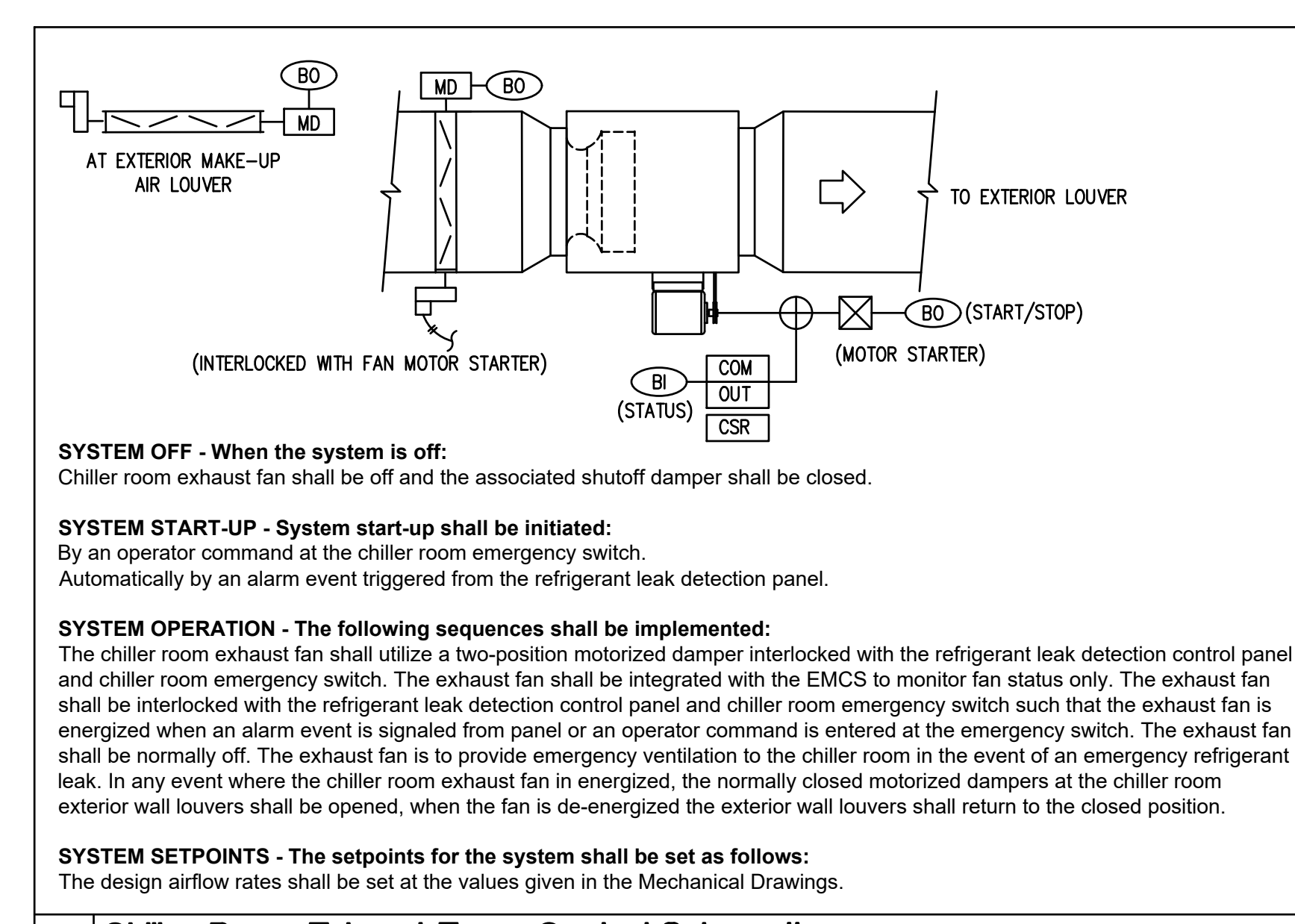
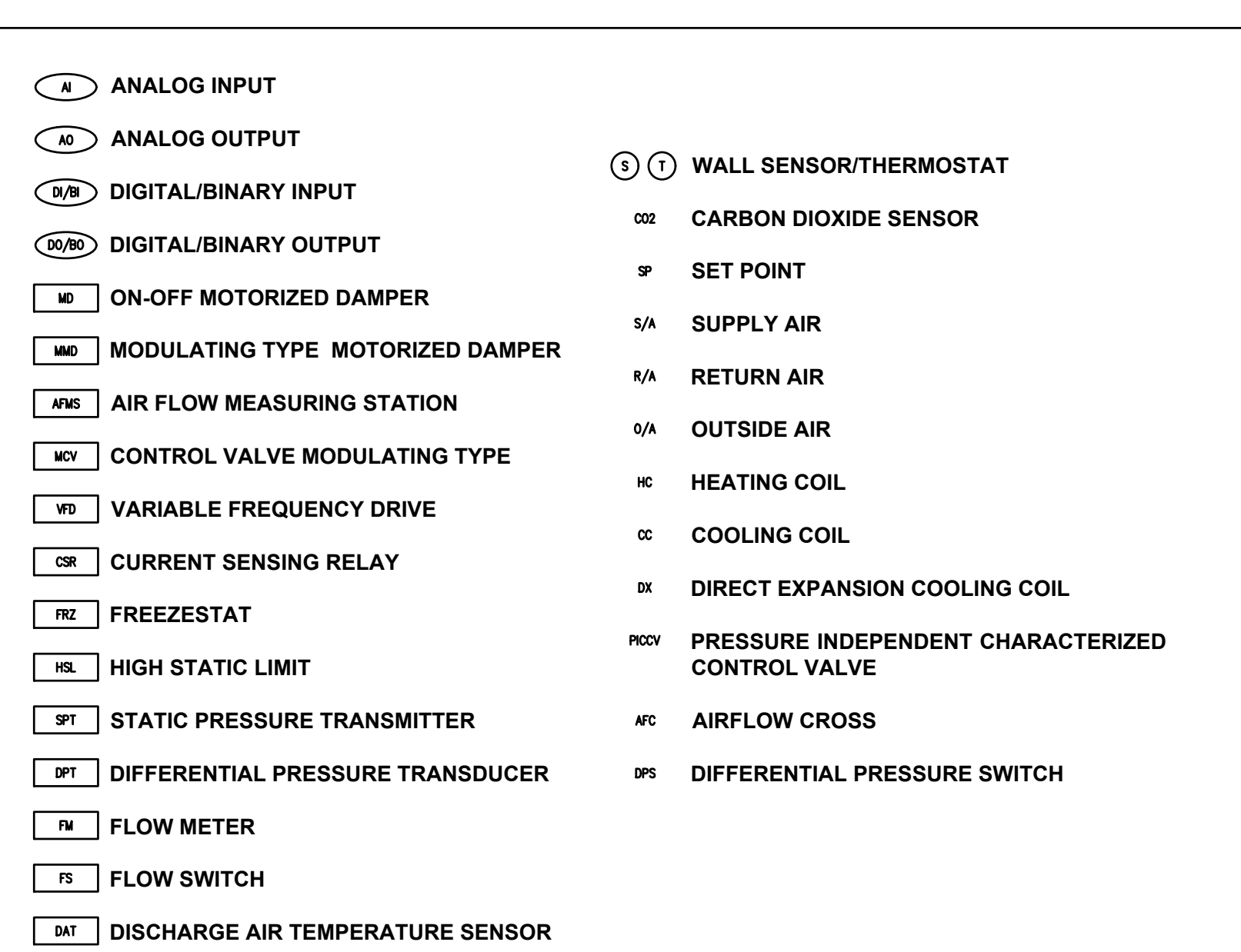
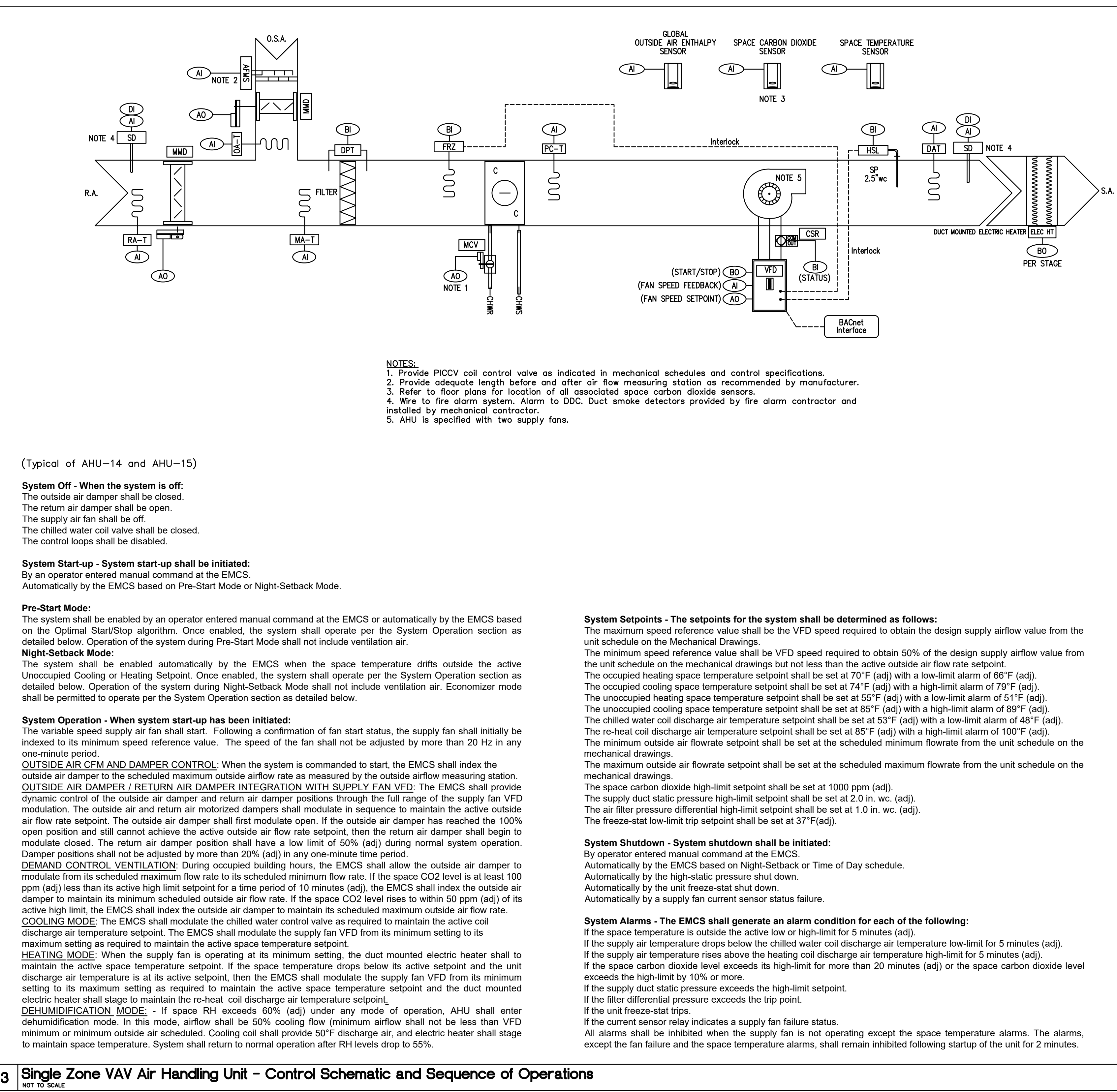
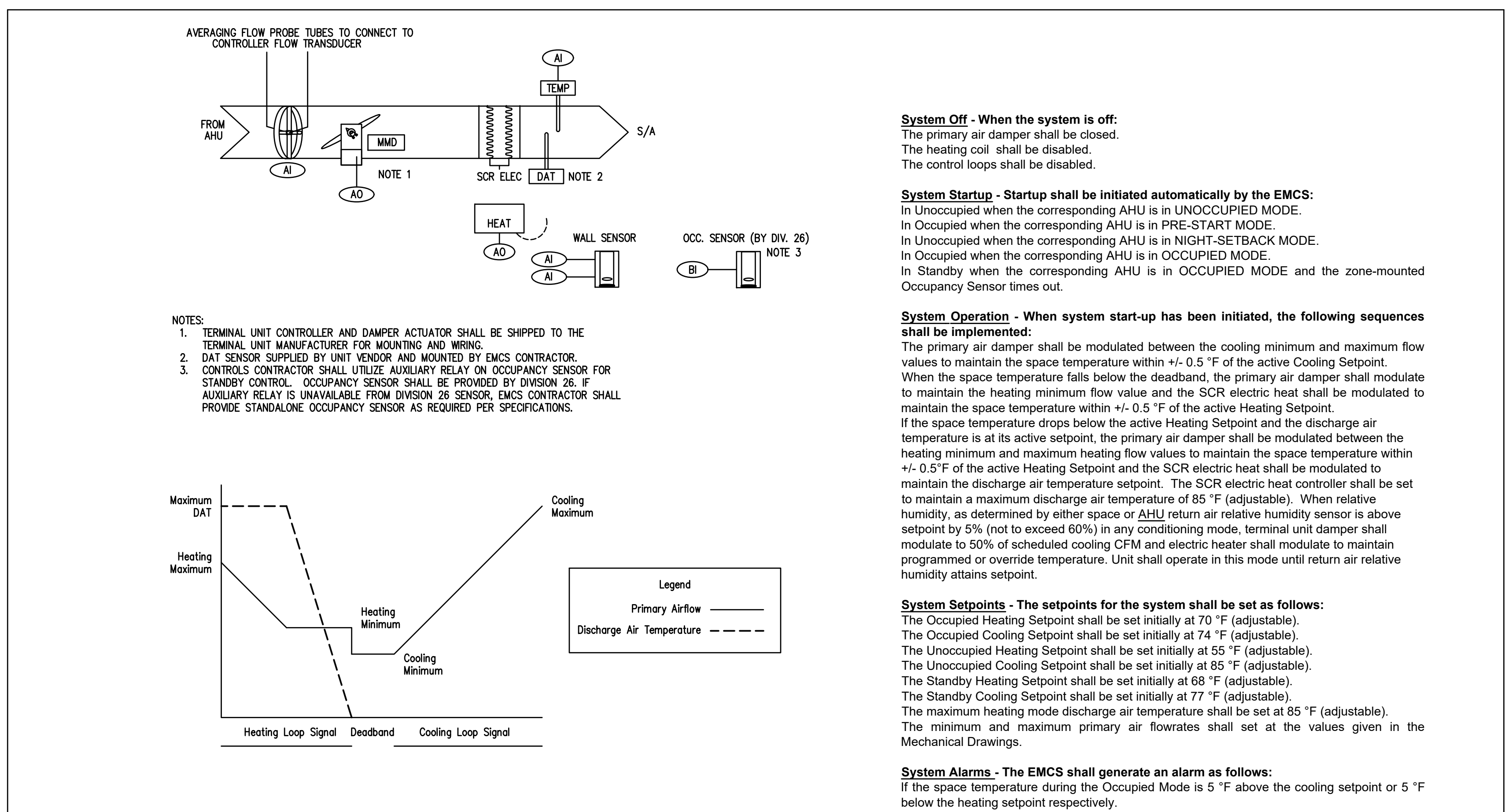
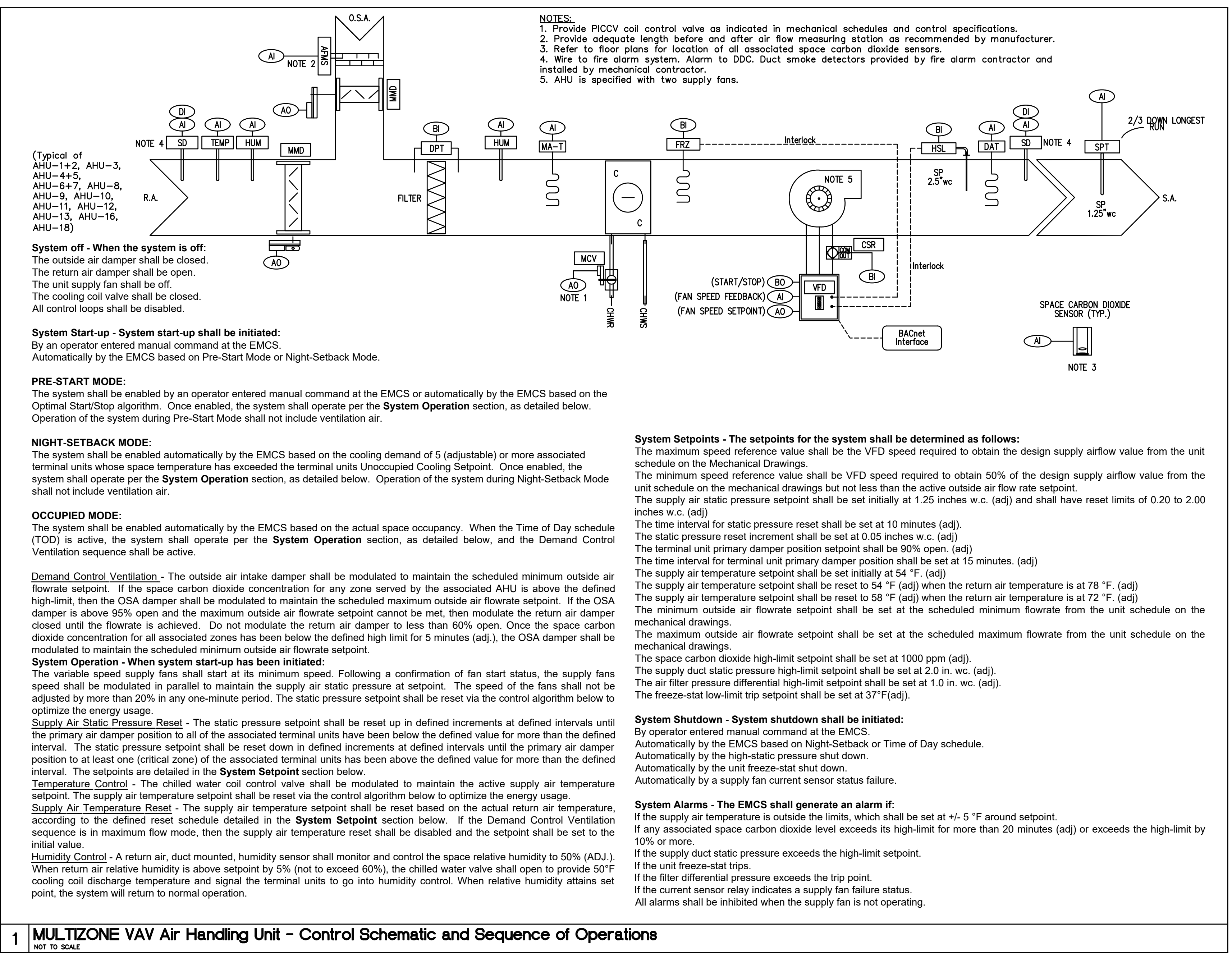
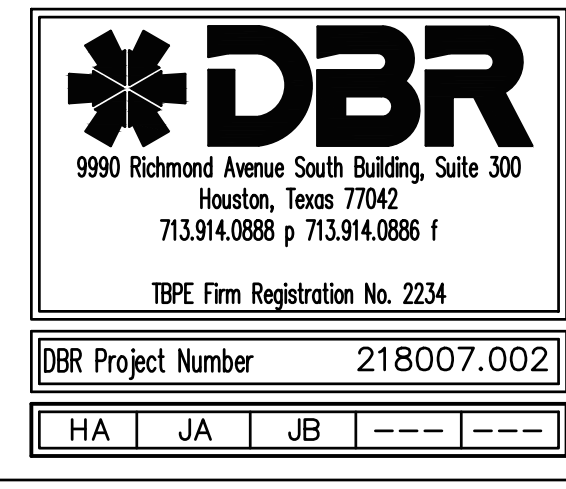
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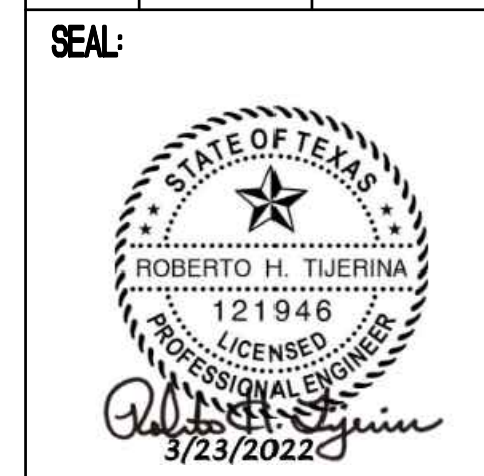


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| PROJECT NUMBER: | 218007.002 |
| SHEET TITLE: | MECHANICAL CONTROLS |

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| MECHANICAL CONTROLS | | | | |
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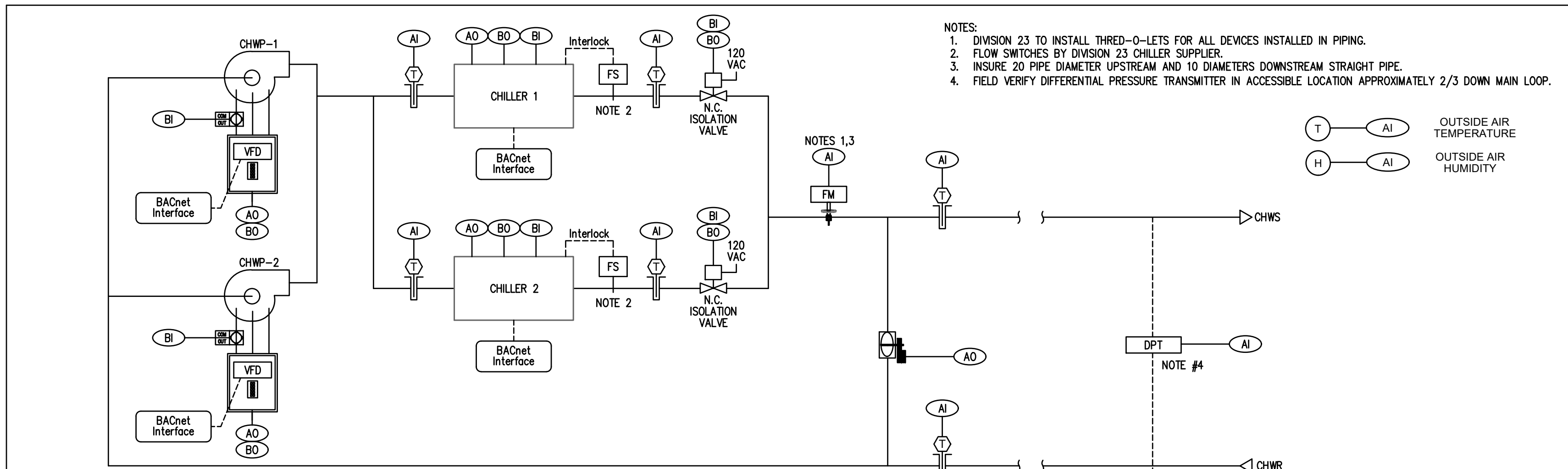


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EDINBURG CONSOLIDATED INDEPENDENT SCHOOL DISTRICT
 MEMORIAL MS - HVAC IMPROVEMENTS
 3105 N DOOLITTLE RD, EDINBURG, TX 78542

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| DATE: | 3/23/2022 |
| DRAWN BY: | DBR |
| CHECKED BY: | DBR |
| PROJECT NUMBER: | 218007.002 |
| SHEET TITLE: | MECHANICAL CONTROLS |
| SHEET NUMBER: | M4.03 |



System Off - When the system is off:
The chillers shall be off.
The pumps shall be off.
The bypass valve shall be closed.
The chiller isolation valves shall be closed.
The control loops shall be disabled.

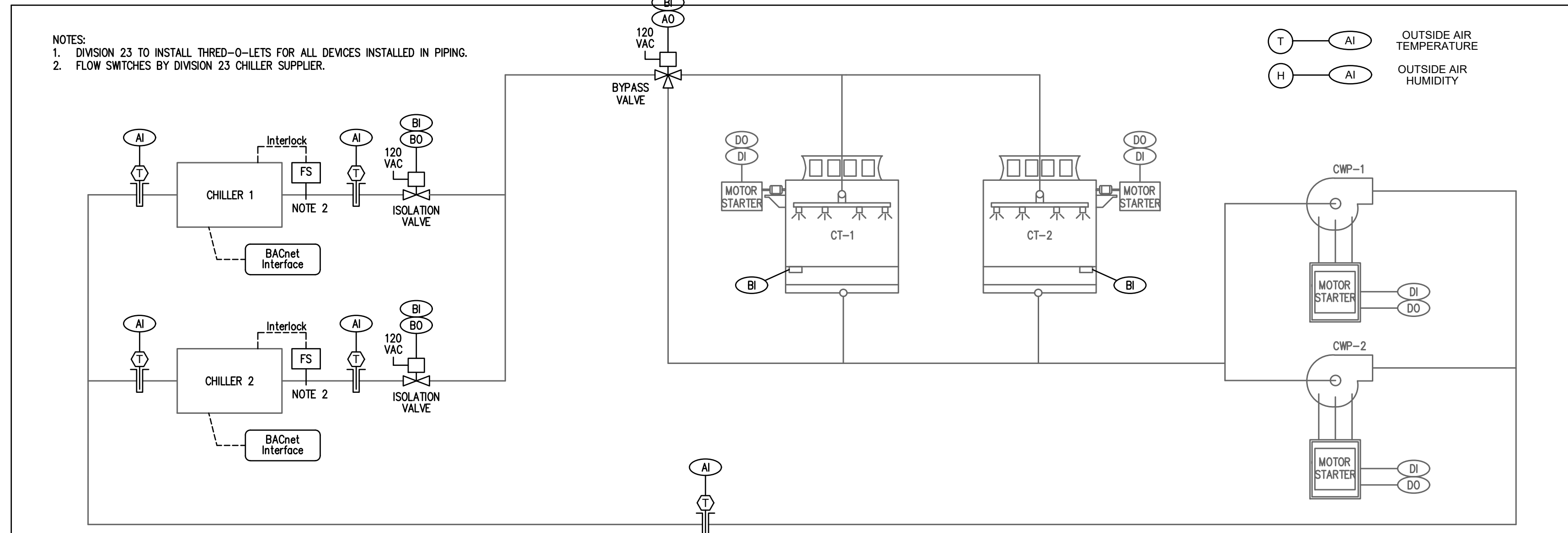
LEGEND:
 _____ NEW PIPING AND EQUIPMENT
 _____ EXISTING PIPING AND EQUIPMENT

System Startup - System startup shall be initiated:
Manually by an Operator command on the chiller graphic at the EMCS.
Automatically by the EMCS, when a call for cooling has been received.

System Operation - When system start-up has been initiated:
The outside air temperature must be above the outside air lockout setpoint, before the chiller can be activated. The number of cooling requests required and the length of time the requests must be received before activating the chiller plant shall be adjustable. The chillers and pumps shall be lead/lag and rotated weekly at a time and on a day of the week when the chiller plant is not in operation. Rotation shall be based on accumulated runtime for each type of equipment.
When the chiller plant is activated, the EMCS shall open the evaporator barrel isolation valve on the lead chiller. When the valve end switch has been proven open, the EMCS shall enable the lead pump. A current switch shall prove the pump status at the EMCS, which shall generate an alarm, if the switch is not made within 45 seconds (adjustable). There shall also be a 10 second (adjustable) de-bounce time to prevent nuisance alarms from a bouncing switch. If the pump run status is not proven, the EMCS shall discontinue the enable signal to the pump and rotate pumps. The EMCS shall then energize a lag pump to run in the same manner as described above. The lag pump shall become the lead pump.
When the lead pump status is proven, the EMCS shall enable the lead chiller. A flow switch in the chilled water piping shall complete the circuit to the chiller factory installed controller proving that evaporator flow has been established. If the chiller alarm input closes (indicating that the chiller has alarm), the EMCS shall generate an alarm, discontinue the enable signal to the lead chiller and open the evaporator barrel isolation valve on the lag chiller. When the valve end switch has been proven open, the EMCS shall close the evaporator barrel isolation valve on the failed chiller and it shall be removed from service. The lag chiller shall become the lead chiller. The chiller shall run to maintain the supply water setpoint.
The EMCS shall monitor the "Chiller Output" point from each chiller. If the point is not available, the EMCS shall monitor the kW of the chiller and calculate the Chiller Output by the equation, ((instantaneous kW / full load kW) * (nominal capacity)). The combined total Chiller Output of all operating chillers shall be the Plant Output. The combined total Nominal Capacity of all operating chillers shall be the Total Capacity. The EMCS shall monitor temperature inputs from sensors mounted in the common supply and return piping and flow meters mounted in the chiller supply piping, and calculate the building load in Tons.
If the value of ((Plant Output / Total Capacity) * 100) is greater than the stage-up setpoint for 10 minutes (adjustable) or the CHW supply temperature rises greater than 4 °F (adjustable) above setpoint, a lag chiller shall

be enabled into operation. If the value of ((Plant Output / Total Capacity) * 100) is less than the stage-down setpoint for 10 minutes (adjustable), a lag chiller shall be disabled.
A differential pressure sensor monitoring the pressure between the building CHWS and CHWR piping shall be used to modulate the speed of the CHW pumps. A PID control loop shall modulate the speed of the CHW pumps from their minimum speed to their maximum speed as the differential pressure deviates from setpoint. If the differential pressure is 2 psi below setpoint and the active pumps output are above the pump stage-up setpoint for 15 minutes (adjustable), a lag pump shall be enabled. When more than one pump is operating and the active pumps output are below the pump stage-down setpoint for 15 minutes (adjustable), the lag pump shall be de-energized. All active pumps shall be modulated with the same ramp signal.
While only one chiller is in operation, the corresponding flow meter shall be used to maintain the chiller minimum flow rate by modulating the bypass valve open. The chilled water flow rate shall not change by more than 10% per minute.
The EMCS shall monitor the position of all of the chilled water valves at the units that the plant serves and the differential pressure setpoint shall be reset based on achieving a target valve position of 90%. There shall be a dead band of 5% to prevent hunting of the reset program. The differential pressure setpoint shall not change by more than 1 psi per 5 minute (adj.) interval. The target valve position, the reset time, the deadband, and the rate of change values shall be adjustable.
When a chiller is to be disabled, the EMCS shall discontinue the command for the chiller to run. The EMCS shall continue to hold open the chiller isolation valve until the chiller status has indicated that it is off. Then the EMCS shall close the valve.
When the outdoor air temperature drops below the freeze protection setpoint, the EMCS shall open the chilled water valves to 50% open (adj.) for flow through the AHU coils, the lead chiller isolation valve shall be opened and the lead chilled water pump shall be activated to run at its minimum referenced speed value until ambient temperature rises above setpoint.
The EMCS shall monitor the outside air temperature and humidity. The EMCS shall calculate the outside air enthalpy, wet bulb temperature, and dew point temperature. These values shall be displayed on all air and water systems graphics.
System Setpoints - The setpoints for the system shall be set as follows:
The outside air temperature lockout setpoint shall be 50 °F (adjustable).
The chiller leaving water temperature setpoint shall be 42 °F (adjustable).
The chiller stage-up setpoint shall be 90% (adjustable).
The chiller stage-down setpoint shall be 50% (adjustable).
The chiller minimum flow setpoint shall be established by chiller manufacturer (adjustable).
The chilled water system differential pressure shall be initially set at 12 psi (adjustable) and shall have reset limits of 8 psi to 16 psi (adjustable).
The pump stage-up setpoint shall be 95% (adjustable).
The pump stage-down setpoint shall be 50% (adjustable).
The outdoor air temperature freeze protection setpoint shall be 38 °F (adjustable).

3 Chilled Water System - Variable Primary Flow - Control Schematic and Sequence of Operations
NOT TO SCALE



LEGEND:
 _____ NEW PIPING AND EQUIPMENT
 _____ EXISTING PIPING AND EQUIPMENT

System Off - When the system is off:
The chillers shall be off.
The pumps shall be off.
The fans shall be off.
The tower bypass valves shall be closed.
The chiller isolation valves shall be closed.
The control loops shall be disabled.

System Startup - System startup shall be initiated:
Automatically by the EMCS, when the chiller plant is enabled.

System Operation - When system start-up has been initiated:
When the condenser water system is activated, the EMCS shall open the condenser isolation valve on the lead chiller. When the valve end switches have been proven open, the EMCS shall send an enable signal to the lead pump. A current switch shall prove the pump status at the EMCS, which shall generate an alarm, if the switch is not made within 45 seconds (adjustable). There shall also be a 10 second (adjustable) de-bounce time to prevent nuisance alarms from a bouncing switch. If the pump run status is not proven, the EMCS shall discontinue the enable signal to the pump and rotate pumps. The EMCS shall then energize a lag pump to run in the same manner as described above. That pump shall become the lead pump.
When the lead pump status is proven, the EMCS shall enable the lead chiller. A flow switch in the condenser water piping shall complete the circuit to the chiller factory installed controller proving that flow has been established. If the chiller alarm input closes (indicating that the chiller has alarm), the EMCS shall generate an alarm, discontinue the enable signal to the lead chiller and open the condenser isolation valve on the lag chiller. When the valve end switch has been proven open, the EMCS shall close the condenser isolation valve on the failed chiller and it shall be removed from service. The lag chiller shall become the lead chiller. When more than one chiller is operating, the corresponding number of condenser pumps and cooling towers shall be enabled. The speed reference of the condenser water pumps shall be determined by TAB and set by the EMCS, refer to pump schedule for GPM values.

Two towers shall enable during plant operation except as follows:

1. A failure of either tower
2. A low load condition in which both towers provide a condenser water supply below 50 °F (see tower sequence below).

Both towers shall operate in parallel to maintain a condenser water supply temperature equal to the lesser of 85 °F or 5 °F above ambient wet bulb temperature. If both towers in operation provide a condenser water supply that reaches 50 °F (or recommended by chiller manufacturer), the lag tower shall be disabled. Single tower operation shall continue to maintain 50 °F. If the lead tower becomes disabled and CWC falls below 50 °F, condenser water bypass valve shall modulate open to maintain 50 °F. As condenser water temperature increases, sequence shall be reversed until both towers are again operational.

Condenser water pumps shall be operated to have speed controlled based upon Testing, Adjusting, and Balancing. When a single chiller and condenser water pump are operating, the lead pump shall provide 660 GPM. When both chillers and condenser water pumps are operating, two condenser water pumps shall operate together to provide 1320 GPM.

The EMCS shall calculate the outside air enthalpy, wet bulb temperature, and dew point temperature. These values shall be displayed on all air and water systems graphics.

System Alarms - The EMCS shall generate an alarm as follows:

- Bypass Valve failure: Commanded open but the status is off.
- Fan Failure: Commanded on but the status is off.
- Vibration Cutout Switch: When tower vibration cutout switch signals a tower fan shutdown.
- High Condenser Water Supply (Basin) Temp: If greater than 88 °F (adjustable).
- Low Condenser Water Supply (Basin) Temp: If less than 37 °F (adjustable).
- High Condenser Water Return Temp: If greater than 100 °F (adjustable).

1 Condenser Water System - Chiller Plant - Control Schematic and Sequence of Operations
NOT TO SCALE

| | |
|----------------------------------|--|
| ANALOG INPUT | WALL SENSOR/THERMOSTAT |
| ANALOG OUTPUT | CARBON DIOXIDE SENSOR |
| DIGITAL/BINARY INPUT | SET POINT |
| DIGITAL/BINARY OUTPUT | SUPPLY AIR |
| ON-OFF MOTORIZED DAMPER | RETURN AIR |
| MODULATING TYPE MOTORIZED DAMPER | OUTSIDE AIR |
| AIR FLOW MEASURING STATION | HEATING COIL |
| CONTROL VALVE MODULATING TYPE | COOLING COIL |
| VARIABLE FREQUENCY DRIVE | DIRECT EXPANSION COOLING COIL |
| CURRENT SENSING RELAY | PRESSURE INDEPENDENT CHARACTERIZED CONTROL VALVE |
| FREEZESTAT | AIRFLOW CROSS |
| HIGH STATIC LIMIT | DIFFERENTIAL PRESSURE SWITCH |
| STATIC PRESSURE TRANSMITTER | |
| DIFFERENTIAL PRESSURE TRANSDUCER | |
| FLOW METER | |
| FLOW SWITCH | |
| DISCHARGE AIR TEMPERATURE SENSOR | |

2 CONTROL SCHEMATIC LEGEND
NOT TO SCALE



TBE Firm Registration No. 2234
DBR Project Number 218007.002



210.546.0200 v. 210.546.0201 f
9601 McAllister Freeway, Suite 410
San Antonio, Texas 78216
TBE Firm Registration NO. 2234

REVISION
No. / DATE / DESCRIPTION

| | | |
|----|-----------|-------------|
| 01 | 3/23/2022 | ADDENDUM #1 |
|----|-----------|-------------|

SEAL:



3/23/2022

EDINBURG CONSOLIDATED INDEPENDENT SCHOOL DISTRICT
MEMORIAL MS - HVAC IMPROVEMENTS
3105 N DOOLITTLE RD, EDINBURG, TX 78542

DATE:
3/23/2022

DRAWN BY:
DBR

CHECKED BY:
DBR

PROJECT NUMBER:
218007.002

SHEET TITLE:

MECHANICAL
SCHEDULES

SHEET NUMBER:

M5.01



9990 Richmond Avenue, South Building, Suite 300
Houston, Texas 77042
713.914.0888 p. 713.914.0888 f.

TBE Firm Registration No. 2234

DBR Project Number 218007.002

HA JA JB --- --

CHILLED WATER AIR HANDLING UNIT SCHEDULE

| MARK | AHU-1+2 | AHU-3 | AHU-4+5 | AHU-6+7 | AHU-8 | AHU-9 | AHU-10 | AHU-11 | AHU-12 | AHU-13 | AHU-14 | AHU-15 | AHU-16 | AHU-18 |
|--|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|-------------------|
| SERVES | 1ST FLOOR AREA A | 1ST FLOOR AREA B | 1ST FLOOR AREA C | 1ST FLOOR AREA D | 2ND FLOOR AREA A | 2ND FLOOR AREA B | 2ND FLOOR AREA B+C | 2ND FLOOR AREA C | 2ND FLOOR AREA D | 2ND FLOOR AREA D | GYM LOCKER ROOMS | GYM LOCKER ROOMS | ART WING | BAND ROOMS |
| TYPE | MULTIZONE | MULTIZONE | MULTIZONE | MULTIZONE | MULTIZONE | MULTIZONE | MULTIZONE | MULTIZONE | MULTIZONE | MULTIZONE | SINGLE ZONE | SINGLE ZONE | MULTIZONE | MULTIZONE |
| UNIT CONFIGURATION | HORIZONTAL | HORIZONTAL | HORIZONTAL | HORIZONTAL | HORIZONTAL | HORIZONTAL | HORIZONTAL | HORIZONTAL | HORIZONTAL | HORIZONTAL | HORIZONTAL | HORIZONTAL | HORIZONTAL | HORIZONTAL |
| DISCHARGE | VERTICAL | VERTICAL | VERTICAL | VERTICAL | VERTICAL | VERTICAL | VERTICAL | VERTICAL | VERTICAL | VERTICAL | VERTICAL | VERTICAL | VERTICAL | HORIZONTAL |
| DESIGN SUPPLY AIR (CFM) | 12,200 | 9,500 | 8,020 | 12,730 | 12,000 | 4,000 | 10,000 | 4,500 | 7,350 | 9,500 | 3,710 | 3,760 | 4,500 | 6,000 |
| MINIMUM SUPPLY AIR (CFM) | 5,540 | 4,025 | 3,210 | 5,020 | 5,180 | 1,600 | 4,000 | 1,800 | 2,940 | 3,800 | 2,100 | 2,100 | 1,800 | 3,685 |
| DESIGN OUTDOOR AIR (CFM) | 5,540 | 4,025 | 3,170 | 5,020 | 5,180 | 1,500 | 3,685 | 1,570 | 1,975 | 3,285 | 2,100 | 2,100 | 1,410 | 3,685 |
| MINIMUM OUTDOOR AIR (CFM) | 2,685 | 2,015 | 1,585 | 2,510 | 2,590 | 750 | 1,845 | 785 | 990 | 1,645 | 1,050 | 1,050 | 705 | 1,845 |
| EXT. S.P. (IN. W.G.) | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| FAN MOTOR HORSEPOWER (# OF FANS / HP) | 2 / 5 | 2 / 7.5 | 2 / 5 | 2 / 5 | 2 / 5 | 1 / 3 | 2 / 7.5 | 1 / 3 | 2 / 5 | 2 / 5 | 1 / 3 | 1 / 5 | 1 / 5 | 2 / 5 |
| MINIMUM REDUNDANCY (%) | 70 | 78 | 61 | 78 | 71 | N/A | 75 | N/A | 66 | 72 | N/A | N/A | N/A | 79 |
| VOLTS/PHASE/HERTZ | 480/3/60 | 480/3/60 | 480/3/60 | 480/3/60 | 480/3/60 | 480/3/60 | 480/3/60 | 480/3/60 | 480/3/60 | 480/3/60 | 480/3/60 | 480/3/60 | 480/3/60 | 480/3/60 |
| MAX FAN RPM | 2,142 | 2,646 | 3,488 | 2,191 | 2,115 | 2,349 | 2,717 | 2,520 | 3,268 | 2,646 | 3,288 | 3,326 | 3,803 | 2,877 |
| FULL LOAD AMPS (QTY) FLA EACH FAN | (2) 6.7 | (2) 9 | (2) 5.9 | (2) 6.7 | (2) 6.7 | (1) 4.2 | (2) 9 | (1) 4.2 | (2) 5.9 | (2) 5.9 | (1) 3.6 | (1) 5.9 | (1) 5.9 | (2) 5.9 |
| (QTY) MCA / MOP | (2) 8.4 / 15 | (2) 11.3 / 20 | (2) 7.4 / 15 | (2) 8.4 / 15 | (2) 8.4 / 15 | (1) 5.3 / 15 | (2) 11.3 / 20 | (1) 5.3 / 15 | (2) 7.4 / 15 | (2) 7.4 / 15 | (1) 4.5 / 15 | (1) 7.4 / 15 | (1) 7.4 / 15 | (2) 7.4 / 15 |
| MAX COIL FACE VELOCITY (FPM) | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 |
| MINIMUM COIL ROWS | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| MAX FINS PER INCH | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| COIL CFM | 12,200 | 9,500 | 8,020 | 12,730 | 12,000 | 4,000 | 10,000 | 4,500 | 7,350 | 9,500 | 3,710 | 3,760 | 4,500 | 6,000 |
| EAT DB/WB (°F) | 87.2/69.5 | 86.4/68.9 | 85.8/68.6 | 85.8/68.6 | 86.7/69.1 | 85.9/68.4 | 85.9/68.0 | 84.7/68.0 | 82.8/67.0 | 84.6/68.0 | 88.8/75.7 | 89.7/70.7 | 87.2/69.4 | 91.0/71.4 |
| LAT DB/WB (°F) | 54.5/53.4 | 55.0/53.6 | 54.9/53.6 | 55.0/53.7 | 54.3/53.3 | 54.3/53.3 | 54.5/53.3 | 54.3/53.4 | 54.0/52.9 | 54.7/53.4 | 54.9/54.6 | 54.3/53.5 | 55.0/53.8 | 54.6/53.5 |
| TOTAL COOLING CAPACITY (MBH) | 616.3 | 454.2 | 375.8 | 590.8 | 593.1 | 184.2 | 478.9 | 202.9 | 315.6 | 428.8 | 270.0 | 206.1 | 221.3 | 345.9 |
| SENSIBLE COOLING CAPACITY (MBH) | 436.7 | 326.6 | 271.5 | 428.1 | 425.2 | 135.4 | 342.9 | 149.4 | 231.3 | 310.8 | 137.3 | 149.6 | 158.6 | 239.1 |
| EWTLWT (°F) | 42/52 | 42/52 | 42/52 | 42/52 | 42/52 | 42/52 | 42/52 | 42/52 | 42/52 | 42/52 | 42/52 | 42/52 | 42/52 | 42/52 |
| COIL WATER FLOW (GPM) | 123.3 | 90.8 | 75.2 | 118.2 | 118.6 | 36.8 | 95.8 | 40.6 | 63.1 | 85.8 | 54.0 | 41.2 | 44.3 | 69.2 |
| QTY COILS / CHW BRANCH PIPING SIZE | 1 / 3.0 | 1 / 2.5 | 1 / 3.0 | 1 / 3.0 | 1 / 3.0 | 1 / 2.0 | 1 / 2.5 | 1 / 2.0 | 1 / 2.5 | 1 / 2.5 | 1 / 2.0 | 1 / 2.0 | 1 / 2.0 | 1 / 2.5 |
| MAX WATER P.D. (FT. HD.) | 15.0 | 15.0 | 15.0 | 15.0 | 15.0 | 15.0 | 15.0 | 15.0 | 15.0 | 15.0 | 15.0 | 15.0 | 15.0 | 15.0 |
| MANUFACTURER | DAIKIN | DAIKIN | DAIKIN | DAIKIN | DAIKIN | DAIKIN | DAIKIN | DAIKIN | DAIKIN | DAIKIN | DAIKIN | DAIKIN | DAIKIN | DAIKIN |
| MODEL NUMBER | CAH027GDGM | CAH021GDGM | CAH018GDGM | CAH029GDGM | CAH025GDGM | CAH026GDGM | CAH024GDGM | CAH015GDGM | CAH015GDGM | CAH015GDGM | CAH009GDGM | CAH010GDGM | CAH013GDGM | CAH013GDGM |
| OPERATING WEIGHT (LBS.) | 2882 | 2510 | 2293 | 3012 | 2882 | 1469 | 2633 | 1566 | 2288 | 2412 | 1389 | 1352 | 1570 | 1966 |
| UNIT CABINET DIMENSIONS, W x L x H (IN.) | 80 x 104 x 66 | 72 x 98 x 60 | 68 x 92 x 56 | 84 x 106 x 66 | 80 x 104 x 66 | 36 x 100 x 66 | 72 x 100 x 66 | 40 x 100 x 66 | 68 x 90 x 48 | 72 x 98 x 60 | 38 x 80 x 60 | 38 x 80 x 60 | 36 x 82 x 66 | 68 x 88 x 42 |
| NOTES | 1,2,3,4,6,7,9,10,13 | 1,2,3,4,5,7,9,10,13 | 1,2,3,4,5,7,9,10,13 | 1,2,3,4,5,7,9,10,13 | 1,2,3,4,5,7,9,10,13 | 1,2,3,4,5,7,9,10,13 | 1,2,3,4,5,7,9,10,13 | 1,2,3,4,5,7,9,10,13 | 1,2,3,4,5,7,9,10,13 | 1,2,3,4,5,7,9,10,13 | 1,2,3,4,6,7,9,10,13 | 1,2,3,4,6,7,9,10,13 | 1,2,3,4,6,7,9,11,13 | 1,2,3,4,6,7,12,13 |

NOTES:

- PROVIDE 2" DOUBLE WALL R-13 CHILLED WATER AHU WITH 2" MERV 13 FILTERS AND 6" BASE RAIL.
- PROVIDE CHILLED WATER COIL WITH STAINLESS STEEL COIL CASING AND STAINLESS STEEL DRAIN PAN. PROVIDE ACCESS DOOR BETWEEN COIL AND FAN SECTION. ACCESS DOOR TO BE MINIMUM 12" FOR SINGLE FAN UNITS AND 18" FOR UNITS WITH MORE THAN ONE FAN.
- PROVIDE 2-WAY AUTOMATIC CONTROL VALVE.
- EXTERNAL STATIC PRESSURE DOES NOT INCLUDE LOSSES DUE TO COILS, FILTERS, AND CASING.
- PROVIDE MIXING BOX WITH LOW LEAK OUTSIDE AIR AND RETURN AIR DAMPERS.
- PROVIDE INTAKE PLENUM WITH TOP OPENING. OUTSIDE AIR AND RETURN AIR TO BE MIXED IN THE DUCT OR CONNECTED SEPARATELY AT THE OPENING. INSTALLING CONTRACTOR TO PROVIDE RETURN AND OUTSIDE AIR DAMPERS IN THE DUCT.
- PROVIDE DIRECT DRIVE PLENUM FANS OF THE QUANTITY SCHEDULED ABOVE WITH PREFERRED MOTOR. PROVIDE FACTORY INSTALLED MOTOR SHAFT GROUNDING RINGS ON EACH FAN. PROVIDE TOP OPENING IN FAN SECTION OR DISCHARGE PLENUM WITH TOP OPENING.
- PROVIDE FACTORY MOUNTED J-BOX WITH TERMINAL CONNECTIONS FOR EACH FAN. PROVIDE ONE VFD FOR EACH FAN. VFDS TO BE FIELD INSTALLED BY MECHANICAL CONTRACTOR AND WIRED BY ELECTRICAL CONTRACTOR.
- PROVIDE ACCESS DOORS FOR BOTH FANS ON DUAL FAN UNITS. FOR UNITS WITH ONE FAN UP AGAINST THE WALL, PROVIDE ACCESS DOOR ON END OF UNIT FOR SERVICING THE FAN MOTOR, OR PROVIDE A DISCHARGE PLENUM TO BE USED FOR ACCESS TO THE BACK FAN.
- PROVIDE MODULAR UNIT WITH SECTIONS SIZED TO FIT THROUGH DOUBLE DOORS.
- PROVIDE MODULAR UNIT WITH SECTIONS SIZED TO FIT THROUGH A 31"W x 78" H OPENING.
- PROVIDE MODULAR UNIT WITH SECTIONS SIZED TO FIT THROUGH A 70"W x 58" H OPENING. PROVIDE WITH FRONT DISCHARGE AND DOORS ON BOTH SIDES OF UNIT.
- PROVIDE MANUAL BLOCK OFF PLATE FOR DUAL FAN UNITS.

ELECTRIC DUCT HEATER SCHEDULE

| MARK | EDH-1 | EDH-2 | EDH-3 | EDH-4 | EDH-5 | EDH-6 | EDH-7 | EDH-8 |
|-----------------------------|-------------|-------------|-------------|-----------|-----------|-----------|-----------|-----------|
| SERVES | RTU-1 | RTU-2 | RTU-3 | AHU-14 | AHU-15 | AHU-17 | AHU-21 | AHU-22 |
| HEATER TYPE | INLINE | INLINE | INLINE | INLINE | INLINE | INLINE | INLINE | INLINE |
| DESIGN AIRFLOW (CFM) | 3,000 | 3,000 | 3,000 | 2,100 | 2,100 | 685 | 2,000 | 1,000 |
| CAPACITY (KW) | 38.0 | 38.0 | 38.0 | 36.0 | 36.0 | 12.0 | 15.0 | 12.0 |
| EAT/LAT (°F) | 54.0/52.1 | 54.0/52.1 | 54.0/52.1 | 36.0/90.0 | 36.0/90.0 | 36.0/90.0 | 66.2/90.0 | 56.7/90.0 |
| DUCT DIMENSION WxH (INSIDE) | 26"X26" | 26"X26" | 26"X26" | 24"X20" | 24"X20" | 24"X14" | 26"X20" | 18"X16" |
| VOLTS/PHASE/HERTZ | 480/3/60 | 480/3/60 | 480/3/60 | 480/3/60 | 480/3/60 | 480/3/60 | 208/3/60 | 208/3/60 |
| CONTROL TYPE | 2 STAGES | 2 STAGES | 2 STAGES | 3 STAGES | 3 STAGES | 3 STAGES | 3 STAGES | 3 STAGES |
| MANUFACTURER | TUTCO | TUTCO | TUTCO | REDD-I | REDD-I | REDD-I | REDD-I | REDD-I |
| MODEL | E-SERIES DH | E-SERIES DH | E-SERIES DH | HF | HF | HF | HF | HF |
| NOTES | 1,2,3,4,5,6 | 1,2,3,4,5,6 | 1,2,3,4,5,6 | 1,2,3,4,5 | 1,2,3,4,5 | 1,2,3,4,5 | 1,2,3,4,5 | 1,2,3,4,5 |

NOTES:

- PROVIDE WITH AIRFLOW PROVING SWITCH AND DIGITAL DUCT MOUNTED DISCHARGE AIR TEMPERATURE SENSOR.
- PROVIDE GALVANIZED FLANGE MOUNTED DUCT HEATER.
- INSTALL DUCT HEATER PER MANUFACTURER'S RECOMMENDATIONS.
- DUCT HEATER SHALL BE CONTROLLED BY DDC SYSTEM.
- PROVIDE DISCONNECT SWITCH.
- OUTDOOR RATED WITH OUTDOOR RATED NEMA4 CONTROL PANEL.

FAN SCHEDULE

| MARK | EF-CUP |
|----------------------|--------------------------|
| SERVES | CENTRAL PLANT |
| TYPE/DRIVE | DIRECT |
| CFM | 2600 (MAX) / 1000 (MIN.) |
| EXT. S.P. (IN. W.G.) | 0.500 |
| HORSEPOWER | 3/4 |
| RPM (MAX) | 1,099 |
| SONES (MAX) | 13.2 |
| VOLTS/PHASE/HERTZ | 120/1/60 |
| MANUFACTURER | GREENHECK |
| MODEL NUMBER | CUE-160-VG |
| NOTES | 1,2,3,4,5 |

NOTES:

- PROVIDE WITH BACKRAFT DAMPER.
- FAN SHALL BE PROVIDED WITH VARI-GREEN MOTOR AND 2-SPEED CONTROLLER.
- FAN SHALL BE CONTROLLED BY THE REFRIGERANT MONITORING SYSTEM.
- FAN SHALL HAVE FACTORY INSTALLED, PRE-WIRED INTEGRAL DISCONNECT SWITCH FROM FACTORY.
- FAN SHALL BE PROVIDED WITH ROOF CURB, TOP OF CURB SHALL BE MINIMUM OF 10" ABOVE FINISHED ROOF.

AIR COOLED CONDENSING UNIT SCHEDULE

| MARK | ACCU-17A, 17B | ACCU-21A, 21B | ACCU-22 |
|------------------------------|---------------|---------------|----------|
| SERVES | AHU-17 | AHU-21 | AHU-22 |
| TOTAL COOLING CAPACITY (MBH) | 41.3 | 77.9 | 59.4 |
| AMBIENT TEMP. (°F) | 105 | 105 | 105 |
| STEPS OF CAPACITY | 2 | 2 | 2 |
| EER (SEER) | (16) | 11.2 | (15) |
| VOLTS/PHASE/HERTZ | 480/3/60 | 208/3/60 | 208/3/60 |
| MCA | 9.1 | 37.0 | 22.4 |
| MOCP | 15.0 | 60.0 | 35.0 |
| MANUFACTURER | Lennox | Lennox | Lennox |
| MODEL NUMBER | SSB048 | ELS090S | SSB060 |
| OPERATING WEIGHT (LBS.) | 268 | 345 | 332 |
| NOTES | ALL | ALL | ALL |

NOTES:

- INSTALL PER MANUFACTURER'S SPECIFICATIONS.
- REFRIGERANT LINES TO BE SIZED BY MANUFACTURER.
- PROVIDE 5 YEAR COMPRESSOR PARTS WARRANTY.
- PROVIDE WITH CONDENSER COIL HAIL GUARD.
- PROVIDE WITH LOW AMBIENT HEAD PRESSURE CONTROL.
- PROVIDE CONDENSER COIL COATING WITH MINIMUM 6000 HR ASTM B117 SALT SPRAY RATING.
- PROVIDE SINGLE CIRCUIT, DUAL STAGE CONDENSING UNITS.

SPLIT AIR HANDLING UNIT SCHEDULE

| MARK | AHU-17 | AHU-21 | AHU-22 |
|--|----------------|----------------|--------------|
| SERVES | WEIGHT ROOM | KITCHEN | KITCHEN |
| UNIT CONFIGURATION | HORIZONTAL | HORIZONTAL | HORIZONTAL |
| DISCHARGE | HORIZONTAL | VERTICAL | HORIZONTAL |
| SUPPLY AIR (CFM) | 1,350 | 4,000 | 2,000 |
| OUTSIDE AIR (CFM) | 685 | 225 | 390 |
| EXT. S.P. (IN. W.G.) | 1.0 | 1.0 | 1.0 |
| FAN MOTOR HORSEPOWER | 2.3 | 3.75 | 1.70 |
| FAN MOTOR CONTROL (VFD, ECM 0-10VDC) | ECM 0-10VDC | ECM 0-10VDC | ECM 0-10VDC |
| FAN RPM | 2051 | 1769 | 2,194 |
| MAX COIL FAN VELOCITY (FPM) | 500 | 500 | 500 |
| MINIMUM COIL ROWS | 6 | 6 | 4 |
| MAX FINS PER INCH | 11 | 11 | 11 |
| COOLING EAT DB/WB (°F) | 88.4/70.0 | 81.0/67.0 | 81.0/67.0 |
| COOLING LAT DB/WB (°F) | 55.4/53.9 | 56.6/54.7 | 59.4/57.4 |
| TOTAL COOLING CAPACITY (MBH) | 69.2 | 151.9 | 60.9 |
| SENSIBLE COOLING CAPACITY (MBH) | 48.8 | 105.8 | 47.2 |
| QTY REFRIGERANT CIRCUITS / TYPE | 2 / INTERLACED | 2 / INTERLACED | 1 / NA |
| HEATING CAPACITY (KW) | - | - | - |
| NO. OF HEATING STAGES | - | - | - |
| VOLTS/PHASE/HERTZ | 480/3/60 | 208/3/60 | 208/3/60 |
| MANUFACTURER | DAIKIN | DAIKIN | DAIKIN |
| MODEL NO. | CAH003GDCM | CAH009GDCM | CAH005GDCM |
| OPERATING WEIGHT (LBS.) | 503 | 1008 | 532 |
| UNIT CABINET DIMENSIONS, W x L x H (IN.) | 38 x 64 x 26 | 38 x 70 x 60 | 46 x 64 x 28 |
| NOTES | 1,2,3,4,5,6 | 1,2,3,4,5,7 | 1,2,3,4,5,6 |

NOTES:

| LOUVER SCHEDULE | | | | | | | | | | |
|-----------------|------------------|------|------------|-------------|--------------------------------------|---|----------|-------|-------|--|
| MARK | SERVES | CFM | WIDTH (IN) | HEIGHT (IN) | MINIMUM FREE AREA (FT ²) | MAX. PRESSURE DROP AT 750 FPM INTAKE (" w.g.) | MANUF. | MODEL | NOTES | |
| LVR-CUP-1 | RMS PURGE INTAKE | 1300 | 24 | 30 | 1.73 | 0.08 | EVH-501D | ALL | | |
| LVR-CUP-2 | RMS PURGE INTAKE | 1300 | 24 | 30 | 1.73 | 0.08 | EVH-501D | ALL | | |
| LVR-AHU-22 | AHU-21 & AHU-22 | 615 | 24 | 16 | 0.82 | 0.08 | EVH-501D | ALL | | |

- NOTES:
 1. FINISH SHALL BE RTNAR 500 FINISH. PAINT COLOR BY ARCHITECT. COORDINATE FINAL ELEVATION WITH ARCHITECT.
 2. LOUVER SHALL MEET AMCA 550 AND AMCA 540.

| VARIABLE FREQUENCY DRIVE SCHEDULE | | | | | | | | | | |
|-----------------------------------|--------------------|-------|-----|------------|-------------|----------|-----------|---------|----------|-------|
| MARK | SERVES | EQUIP | HP | INPUT VOLT | OUTPUT VOLT | MOUNTING | ENCLOSURE | MANUF. | MODEL | NOTES |
| VFD-AHU-1+2-1 | AHU-1+2 SUPPLY FAN | AHU | 5 | 460/3 | 460/3 | WALL | NEMA 12 | DANFOSS | VLT HVAC | ALL |
| VFD-AHU-1+2-2 | AHU-1+2 SUPPLY FAN | AHU | 5 | 460/3 | 460/3 | WALL | NEMA 12 | DANFOSS | VLT HVAC | ALL |
| VFD-AHU-3-1 | AHU-3 SUPPLY FAN | AHU | 7.5 | 460/3 | 460/3 | WALL | NEMA 12 | DANFOSS | VLT HVAC | ALL |
| VFD-AHU-3-2 | AHU-3 SUPPLY FAN | AHU | 7.5 | 460/3 | 460/3 | WALL | NEMA 12 | DANFOSS | VLT HVAC | ALL |
| VFD-AHU-4+5-1 | AHU-4+5 SUPPLY FAN | AHU | 5 | 460/3 | 460/3 | WALL | NEMA 12 | DANFOSS | VLT HVAC | ALL |
| VFD-AHU-4+5-2 | AHU-4+5 SUPPLY FAN | AHU | 5 | 460/3 | 460/3 | WALL | NEMA 12 | DANFOSS | VLT HVAC | ALL |
| VFD-AHU-6+7-1 | AHU-6+7 SUPPLY FAN | AHU | 5 | 460/3 | 460/3 | WALL | NEMA 12 | DANFOSS | VLT HVAC | ALL |
| VFD-AHU-6+7-2 | AHU-6+7 SUPPLY FAN | AHU | 5 | 460/3 | 460/3 | WALL | NEMA 12 | DANFOSS | VLT HVAC | ALL |
| VFD-AHU-8-1 | AHU-8 SUPPLY FAN | AHU | 5 | 460/3 | 460/3 | WALL | NEMA 12 | DANFOSS | VLT HVAC | ALL |
| VFD-AHU-8-2 | AHU-8 SUPPLY FAN | AHU | 5 | 460/3 | 460/3 | WALL | NEMA 12 | DANFOSS | VLT HVAC | ALL |
| VFD-AHU-9 | AHU-9 SUPPLY FAN | AHU | 3 | 460/3 | 460/3 | WALL | NEMA 12 | DANFOSS | VLT HVAC | ALL |
| VFD-AHU-10-1 | AHU-10 SUPPLY FAN | AHU | 7.5 | 460/3 | 460/3 | WALL | NEMA 12 | DANFOSS | VLT HVAC | ALL |
| VFD-AHU-10-2 | AHU-10 SUPPLY FAN | AHU | 7.5 | 460/3 | 460/3 | WALL | NEMA 12 | DANFOSS | VLT HVAC | ALL |
| VFD-AHU-11 | AHU-11 SUPPLY FAN | AHU | 3 | 460/3 | 460/3 | WALL | NEMA 12 | DANFOSS | VLT HVAC | ALL |
| VFD-AHU-12-1 | AHU-12 SUPPLY FAN | AHU | 5 | 460/3 | 460/3 | WALL | NEMA 12 | DANFOSS | VLT HVAC | ALL |
| VFD-AHU-12-2 | AHU-12 SUPPLY FAN | AHU | 5 | 460/3 | 460/3 | WALL | NEMA 12 | DANFOSS | VLT HVAC | ALL |
| VFD-AHU-13-1 | AHU-13 SUPPLY FAN | AHU | 5 | 460/3 | 460/3 | WALL | NEMA 12 | DANFOSS | VLT HVAC | ALL |
| VFD-AHU-13-2 | AHU-13 SUPPLY FAN | AHU | 5 | 460/3 | 460/3 | WALL | NEMA 12 | DANFOSS | VLT HVAC | ALL |
| VFD-AHU-14 | AHU-14 SUPPLY FAN | AHU | 3 | 460/3 | 460/3 | WALL | NEMA 12 | DANFOSS | VLT HVAC | ALL |
| VFD-AHU-15 | AHU-15 SUPPLY FAN | AHU | 5 | 460/3 | 460/3 | WALL | NEMA 12 | DANFOSS | VLT HVAC | ALL |
| VFD-AHU-16 | AHU-16 SUPPLY FAN | AHU | 5 | 460/3 | 460/3 | WALL | NEMA 12 | DANFOSS | VLT HVAC | ALL |
| VFD-AHU-18-1 | AHU-18 SUPPLY FAN | AHU | 5 | 460/3 | 460/3 | WALL | NEMA 12 | DANFOSS | VLT HVAC | ALL |
| VFD-AHU-18-2 | AHU-18 SUPPLY FAN | AHU | 5 | 460/3 | 460/3 | WALL | NEMA 12 | DANFOSS | VLT HVAC | ALL |
| VFD-CHWP-1 | CHWP-1 | PUMP | 30 | 460/3 | 460/3 | WALL | NEMA 12 | DANFOSS | VLT HVAC | ALL |
| VFD-CHWP-2 | CHWP-2 | PUMP | 30 | 460/3 | 460/3 | WALL | NEMA 12 | DANFOSS | VLT HVAC | ALL |
| VFD-CHWP-3 | CHWP-3 | PUMP | 30 | 460/3 | 460/3 | WALL | NEMA 12 | DANFOSS | VLT HVAC | ALL |

- NOTES:
 1. VFD SHALL BE PROVIDED AND MOUNTED BY MECHANICAL CONTRACTOR AND WIRED BY ELECTRICAL CONTRACTOR.
 2. PROVIDE WITH BACKET INTERFACE.
 3. PROVIDE VFD WITH NON-FUSED DISCONNECT

PUMP SCHEDULE

| MARK | CHWP-1 | | | CHWP-2 | | | CHWP-3 | | |
|-------------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| | SERVICE | CHILLED WATER | CHILLED WATER | SERVICE | CHILLED WATER | CHILLED WATER | SERVICE | CHILLED WATER | CHILLED WATER |
| TYPE | END SUCTION | END SUCTION | END SUCTION | END SUCTION | END SUCTION | END SUCTION | END SUCTION | END SUCTION | END SUCTION |
| DESIGN FLOW RATE (GPM) | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 |
| MINIMUM FLOW RATE (GPM) | 125.0 | 125.0 | 125.0 | 125.0 | 125.0 | 125.0 | 125.0 | 125.0 | 125.0 |
| DYNAMIC HEAD-FT | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 |
| MOTOR RPM | 1800 | 1800 | 1800 | 1800 | 1800 | 1800 | 1800 | 1800 | 1800 |
| MIN. PUMP EFF. (%) | 74.7 | 74.7 | 74.7 | 74.7 | 74.7 | 74.7 | 74.7 | 74.7 | 74.7 |
| NPSH MAX. REQUIRED | 7.980 | 7.980 | 7.980 | 7.980 | 7.980 | 7.980 | 7.980 | 7.980 | 7.980 |
| HORSEPOWER | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 |
| VOLTS/PHASE/HERTZ | 460/3/60 | 460/3/60 | 460/3/60 | 460/3/60 | 460/3/60 | 460/3/60 | 460/3/60 | 460/3/60 | 460/3/60 |
| MANUFACTURER | BELL & GOSSETT | BELL & GOSSETT | BELL & GOSSETT | BELL & GOSSETT | BELL & GOSSETT | BELL & GOSSETT | BELL & GOSSETT | BELL & GOSSETT | BELL & GOSSETT |
| MODEL | e-1510 3GB | e-1510 3GB | e-1510 3GB | e-1510 3GB | e-1510 3GB | e-1510 3GB | e-1510 3GB | e-1510 3GB | e-1510 3GB |
| NOTES | ALL | ALL | ALL | ALL | ALL | ALL | ALL | ALL | ALL |

- NOTES:
 1. PUMP SHALL BE NON-OVERLOADING ACROSS ENTIRE GPM RANGE.
 2. PROVIDE WITH REMOTE MOUNTED VARIABLE FREQUENCY DRIVE.
 3. PROVIDE WITH PREMIUM EFFICIENCY QDP MOTOR FOR OPERATION WITH VARIABLE FREQUENCY DRIVE.
 4. PROVIDE WITH INDUCTIVE ABSORBERS

AIR SEPARATOR SCHEDULE

| MARK | AS-1 |
|------------------------------|----------------------|
| SERVICE | CHILLED WATER SYSTEM |
| MAX FLOW (GPM) | 1,056 |
| INLET / OUTLET SIZE (INCHES) | 10 |
| SHIPPING WEIGHT (LBS) | 311 |
| FLOODED WEIGHT (LBS) | 834 |
| MANUFACTURER | Bell & Gossett |
| MODEL | CRSA-10F |
| NOTES | ALL |

- NOTES:
 1. PROVIDE HIGH CAPACITY AIR VENT. AIR VENT SHALL BE PIPED OFFSET FROM SEPARATOR TO MINIMIZE CORROSION CAUSED BY WATER DRIPS.

EXPANSION TANK SCHEDULE

| MARK | ET-1 |
|-------------------------------|------------------|
| SERVICE | CHILLED WATER |
| TANK VOLUME (GALLONS) | 80 |
| MAX ACCEPTANCE | 27 |
| MIN. OPERATING PRESSURE (PSI) | 60.0 |
| MAX. OPERATING PRESSURE (PSI) | 80 |
| TYPE | BLADDER |
| MANUFACTURER | BELL AND GOSSETT |
| MODEL NO. | B-300LA |
| NOTES | 1 |

- NOTES:
 1. PROVIDE AUTOMATIC AIR VENT.

| SINGLE INLET VAV BOX WITH REHEAT SCHEDULE | | | | | | | | | | |
|---|-------------|-----|-------------|-----|--------|------------|----------------|--------------|-------|----|
| MARK | COOLING CFM | | HEATING CFM | | REHEAT | INLET SIZE | VOLTS/PHASE/Hz | MANUFACTURER | MODEL | |
| | MAX | MIN | MAX | MIN | | | | | | KW |
| VAV-1-01 | 840 | 255 | 420 | 255 | 5 | 10"Ø | 277/1/60 | PRICE | SDV | |
| VAV-1-02 | 840 | 255 | 420 | 255 | 5 | 10"Ø | 277/1/60 | PRICE | SDV | |
| VAV-1-03 | 840 | 255 | 420 | 255 | 5 | 10"Ø | 277/1/60 | PRICE | SDV | |
| VAV-1-04 | 960 | 290 | 480 | 290 | 6 | 10"Ø | 480/3/60 | PRICE | SDV | |
| VAV-1-05 | 1,750 | 525 | 875 | 525 | 10 | 14"Ø | 480/3/60 | PRICE | SDV | |
| VAV-1-06 | 980 | 295 | 490 | 295 | 6 | 10"Ø | 480/3/60 | PRICE | SDV | |
| VAV-1-07 | 900 | 270 | 450 | 270 | 5 | 10"Ø | 277/1/60 | PRICE | SDV | |
| VAV-1-08 | 900 | 270 | 450 | 270 | 5 | 10"Ø | 277/1/60 | PRICE | SDV | |
| VAV-1-09 | 900 | 270 | 450 | 270 | 5 | 10"Ø | 277/1/60 | PRICE | SDV | |
| VAV-1-10 | 740 | 225 | 370 | 225 | 5 | 10"Ø | 277/1/60 | PRICE | SDV | |
| VAV-2-01 | 470 | 145 | 235 | 145 | 3 | 8"Ø | 277/1/60 | PRICE | SDV | |
| VAV-2-02 | 2,100 | 630 | 1050 | 630 | 12 | 16"Ø | 480/3/60 | PRICE | SDV | |
| VAV-2-03 | 800 | 180 | 300 | 180 | 4 | 8"Ø | 277/1/60 | PRICE | SDV | |
| VAV-3-01 | 900 | 270 | 450 | 270 | 5 | 10"Ø | 277/1/60 | PRICE | SDV | |
| VAV-3-02 | 1,000 | 300 | 500 | 300 | 6 | 10"Ø | 480/3/60 | PRICE | SDV | |
| VAV-3-03 | 1,000 | 300 | 500 | 300 | 6 | 10"Ø | 480/3/60 | PRICE | SDV | |
| VAV-3-04 | 1,550 | 465 | 775 | 465 | 9 | 12"Ø | 480/3/60 | PRICE | SDV | |
| VAV-3-05 | 850 | 255 | 425 | 255 | 5 | 10"Ø | 277/1/60 | PRICE | SDV | |
| VAV-3-06 | 850 | 255 | 425 | 255 | 5 | 10"Ø | 277/1/60 | PRICE | SDV | |
| VAV-3-07 | 850 | 255 | 425 | 255 | 5 | 10"Ø | 277/1/60 | PRICE | SDV | |
| VAV-3-08 | 890 | 270 | 445 | 270 | 5 | 10"Ø | 277/1/60 | PRICE | SDV | |
| VAV-3-09 | 850 | 255 | 425 | 255 | 5 | 10"Ø | 277/1/60 | PRICE | SDV | |
| VAV-3-10 | 850 | 260 | 430 | 260 | 5 | 10"Ø | 277/1/60 | PRICE | SDV | |
| VAV-4-01 | 500 | 150 | 250 | 150 | 3 | 8"Ø | 277/1/60 | PRICE | SDV | |
| VAV-4-02 | 500 | 150 | 250 | 150 | 3 | 8"Ø | 277/1/60 | PRICE | SDV | |
| VAV-4-03 | 1,000 | 300 | 500 | 300 | 6 | 10"Ø | 480/3/60 | PRICE | SDV | |
| VAV-4-04 | 1,500 | 450 | 750 | 450 | 9 | 12"Ø | 480/3/60 | PRICE | SDV | |
| VAV-4-05 | 1,000 | 300 | 500 | 300 | 6 | 10"Ø | 480/3/60 | PRICE | SDV | |
| VAV-4-06 | 500 | 150 | 250 | 150 | 3 | 8"Ø | 277/1/60 | PRICE | SDV | |
| VAV-5-01 | 3,020 | 910 | 1510 | 910 | 17 | 16"Ø | 480/3/60 | PRICE | SDV | |
| VAV-6-01 | 2,730 | 820 | 1365 | 820 | 16 | 16"Ø | 480/3/60 | PRICE | SDV | |
| VAV-7-01 | 875 | 265 | 440 | 265 | 5 | 10"Ø | 277/1/60 | PRICE | SDV | |
| VAV-7-02 | 875 | 265 | 440 | 265 | 5 | 10"Ø | 277/1/60 | PRICE | SDV | |
| VAV-7-03 | 875 | 265 | 440 | 265 | 5 | 10"Ø | 277/1/60 | PRICE | SDV | |
| VAV-7-04 | 875 | 265 | 440 | 265 | 5 | 10"Ø | 277/1/60 | PRICE | SDV | |
| VAV-7-05 | 960 | 290 | 480 | 290 | 6 | 10"Ø | 480/3/60 | PRICE | SDV | |
| VAV-7-06 | 1,880 | 565 | 940 | 565 | 11 | 14"Ø | 480/3/60 | PRICE | SDV | |
| VAV-7-07 | 900 | 270 | 450 | 270 | 5 | 10"Ø | 277/1/60 | PRICE | SDV | |
| VAV-7-08 | 900 | 270 | 450 | 270 | 5 | 10"Ø | 277/1/60 | PRICE | SDV | |
| VAV-7-09 | 900 | 270 | 450 | 270 | 5 | 10"Ø | 277/1/60 | PRICE | SDV | |
| VAV-7-10 | 960 | 290 | 480 | 290 | 6 | 10"Ø | 480/3/60 | PRICE | SDV | |
| VAV-8-01 | 1,940 | 585 | 970 | 585 | 11 | 14"Ø | 480/3/60 | PRICE | SDV | |
| VAV-8-02 | 2,000 | 600 | 1000 | 600 | 12 | 14"Ø | 480/3/60 | PRICE | SDV | |
| VAV-8-03 | 1,100 | 330 | 550 | 330 | 7 | 12"Ø | 480/3/60 | PRICE | SDV | |
| VAV-8-04 | 900 | 270 | 450 | 270 | 5 | 10"Ø | 277/1/60 | PRICE | SDV | |
| VAV-8-05 | 900 | 270 | 450 | 270 | 5 | 10"Ø | 277/1/60 | PRICE | SDV | |
| VAV-8-06 | 960 | 290 | 480 | 290 | 6 | 10"Ø | 480/3/60 | PRICE | SDV | |
| VAV-8-07 | 2,200 | 660 | 1100 | 660 | 13 | 16"Ø | 480/3/60 | PRICE | SDV | |
| VAV-8-08 | 2,000 | 600 | 1000 | 600 | 12 | 14"Ø | 480/3/60 | PRICE | SDV | |
| VAV-9-01 | 1,050 | 315 | 525 | 315 | 6 | 10"Ø | 480/3/60 | PRICE | SDV | |
| VAV-9-02 | 1,000 | 300 | 500 | 300 | 6 | 10"Ø | 480/3/60 | PRICE | SDV | |
| VAV-9-03 | 1,450 | 435 | 725 | 435 | 9 | 12"Ø | 480/3/60 | PRICE | SDV | |
| VAV-9-04 | 500 | 150 | 250 | 150 | 3 | 8"Ø | 277/1/60 | PRICE | SDV | |
| VAV-10-01 | 1,135 | 345 | 570 | 345 | 7 | 12"Ø | 480/3/60 | PRICE | SDV | |
| VAV-10-02 | 1,250 | 375 | 625 | 375 | 7 | 12"Ø | 480/3/60 | PRICE | SDV | |
| VAV-10-03 | 1,100 | 330 | 550 | 330 | 7 | 12"Ø | 480/3/60 | PRICE | SDV | |
| VAV-10-04 | 1,250 | 375 | 625 | 375 | 7 | 12"Ø | 480/3/60 | PRICE | SDV | |
| VAV-10-05 | 1,330 | 400 | 665 | 400 | 8 | 12"Ø | 480/3/60 | PRICE | SDV | |
| VAV-10-06 | 1,630 | 490 | 815 | 490 | 10 | 14"Ø | 480/3/60 | PRICE | SDV | |
| VAV-10-07 | 1,250 | 375 | 625 | 375 | 7 | 12"Ø | 480/3/60 | PRICE | SDV | |
| VAV-10-08 | 1,250 | 375 | 625 | 375 | 7 | 12"Ø | 480/3/60 | PRICE | SDV | |
| VAV-11-01 | 1,100 | 330 | 550 | 330 | 7 | 12"Ø | 480/3/60 | PRICE | SDV | |
| VAV-11-02 | 900 | 270 | 450 | 270 | 5 | 10"Ø | 277/1/60 | PRICE | SDV | |
| VAV-11-03 | 1,100 | 330 | 550 | 330 | 7 | 12"Ø | 480/3/60 | PRICE | SDV | |
| VAV-11-04 | 900 | 27 | | | | | | | | |

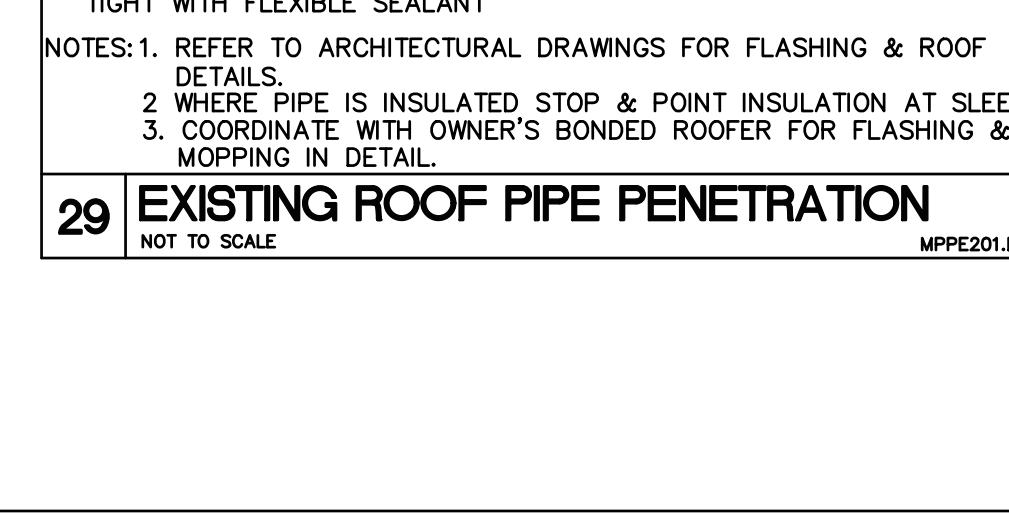
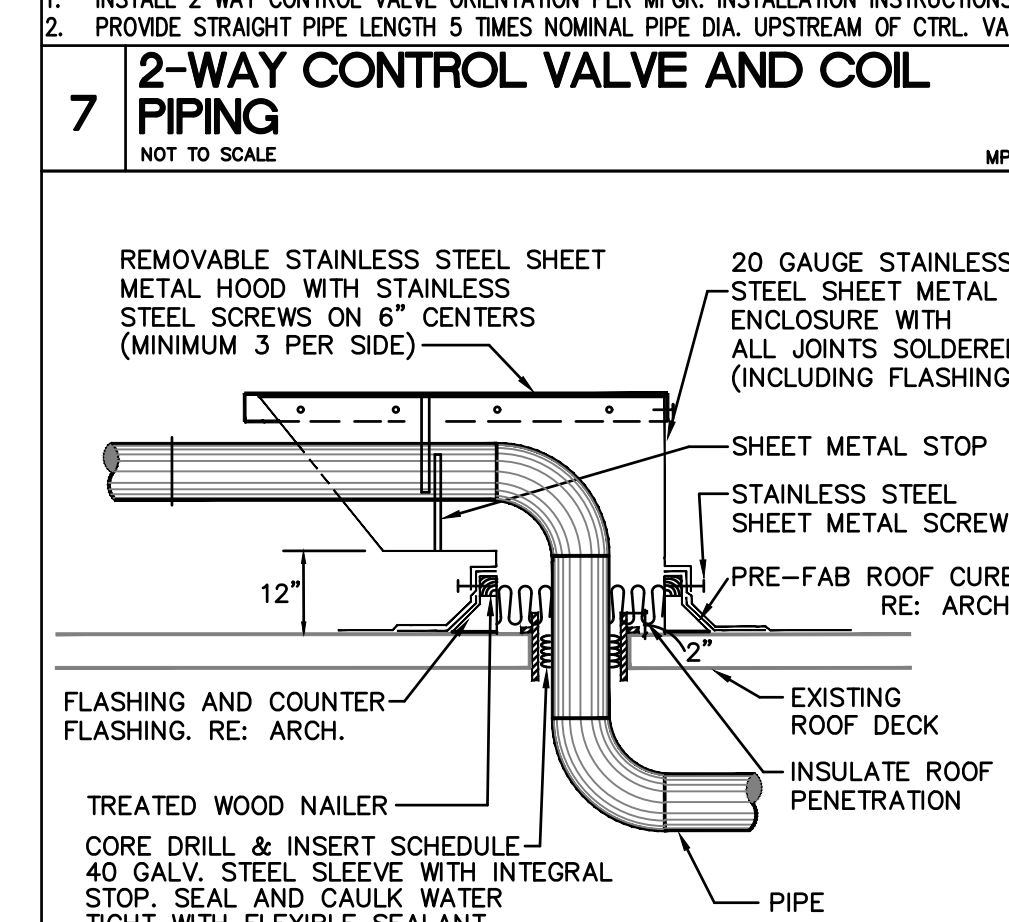
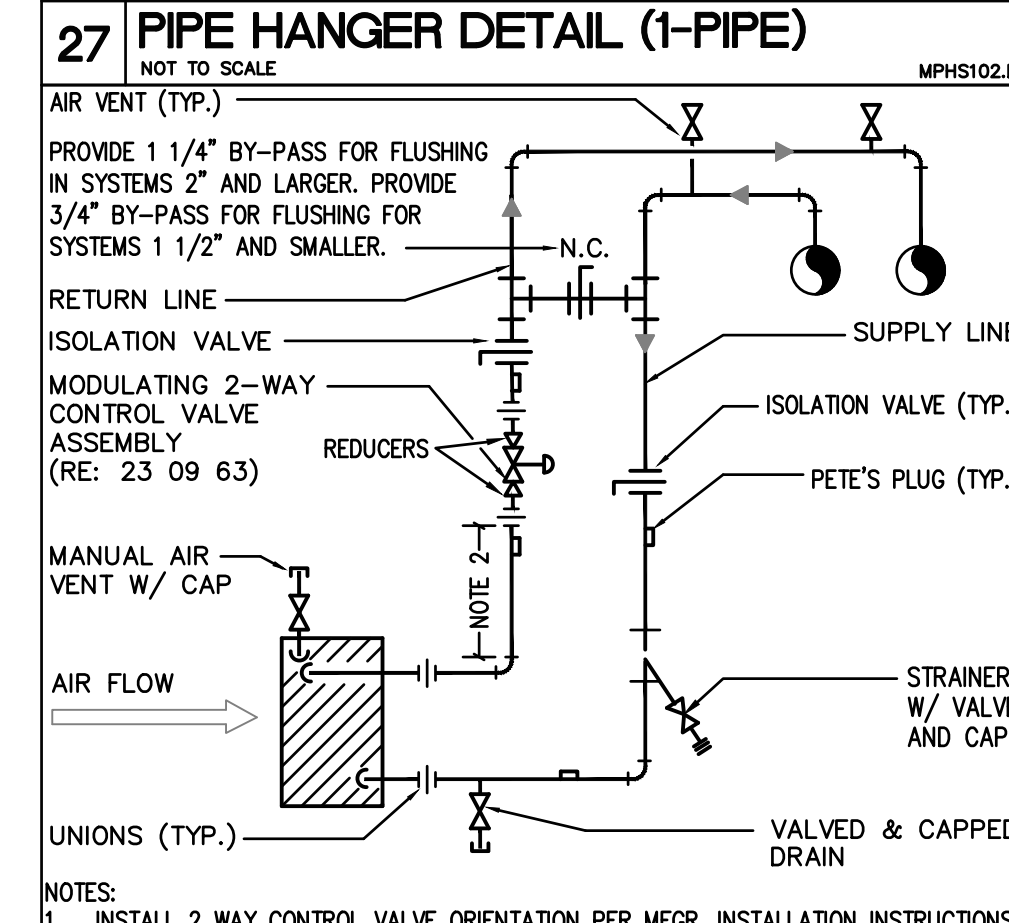
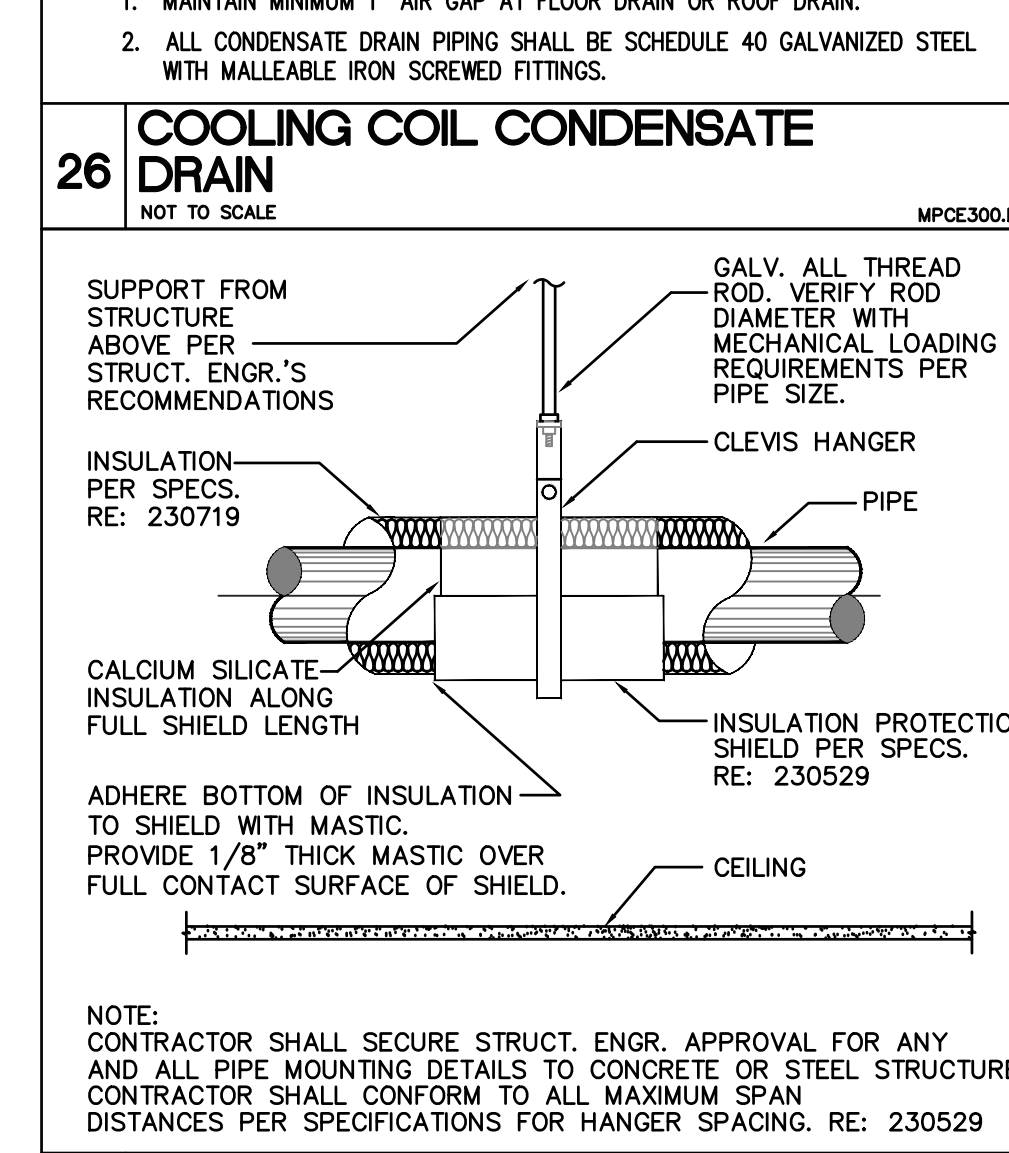
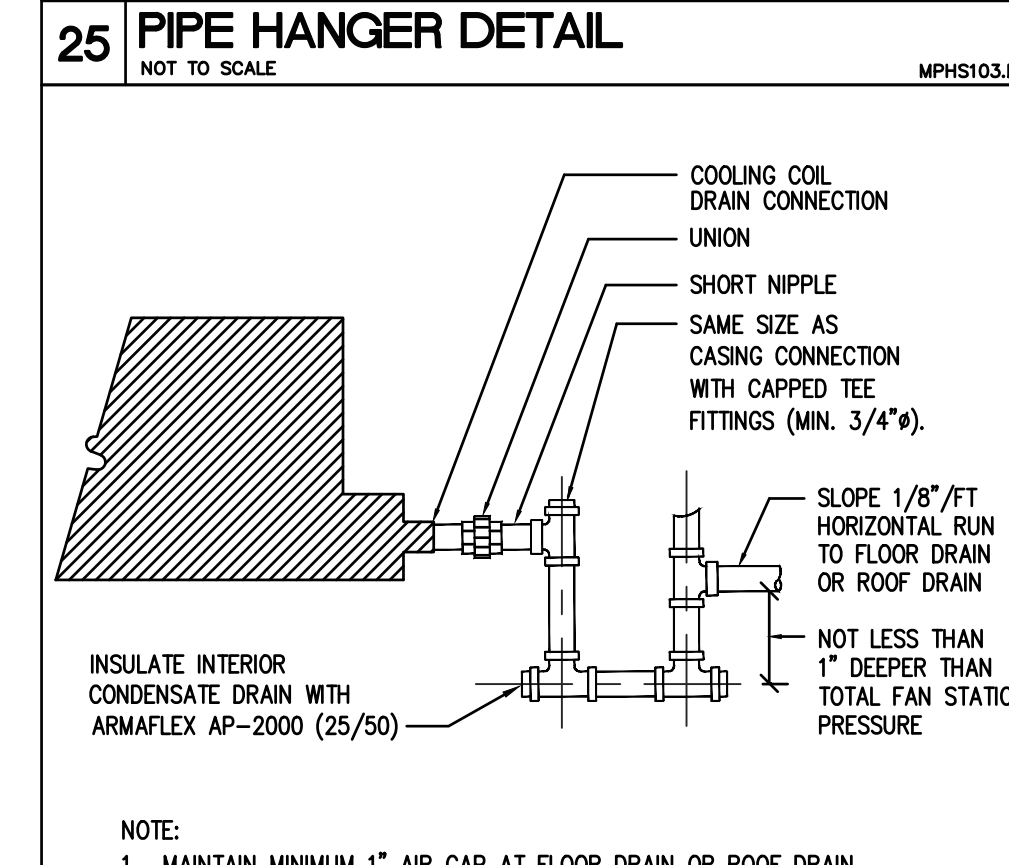
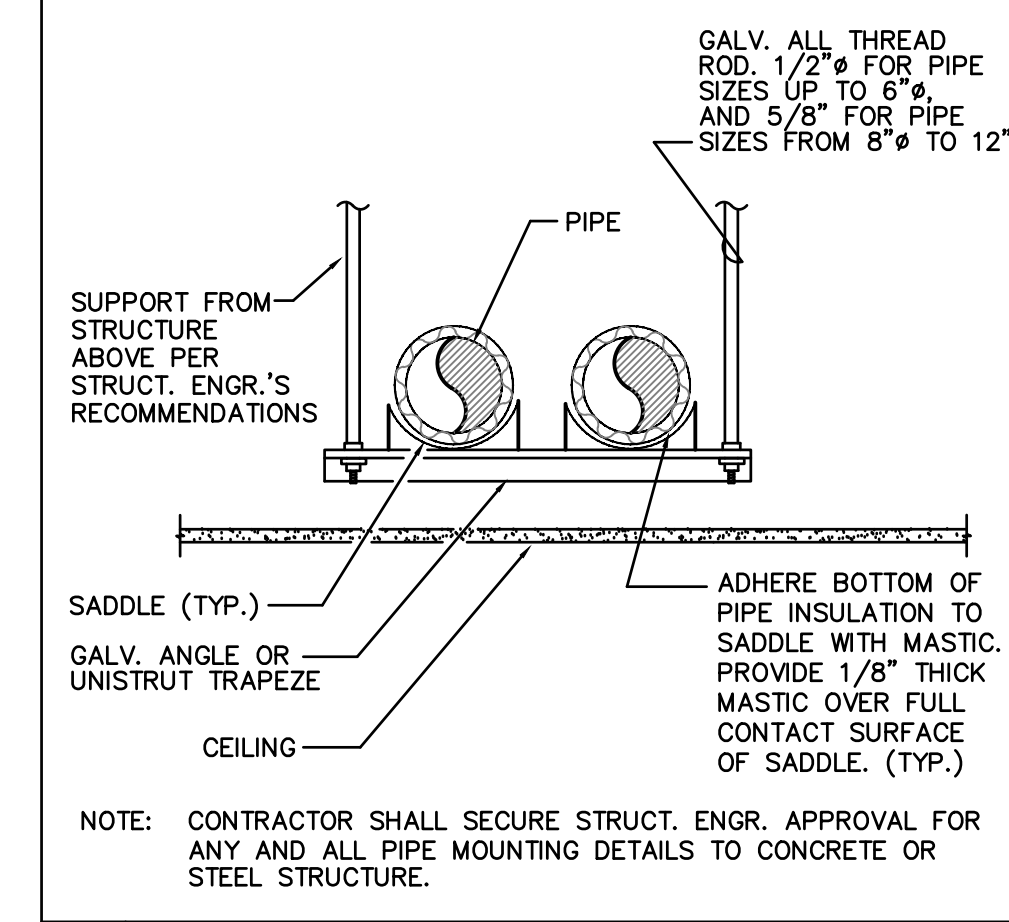
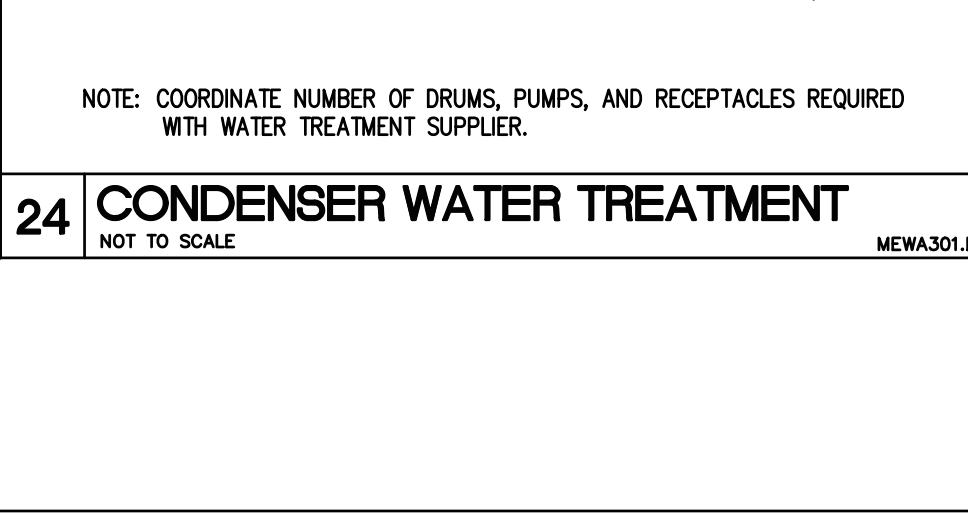
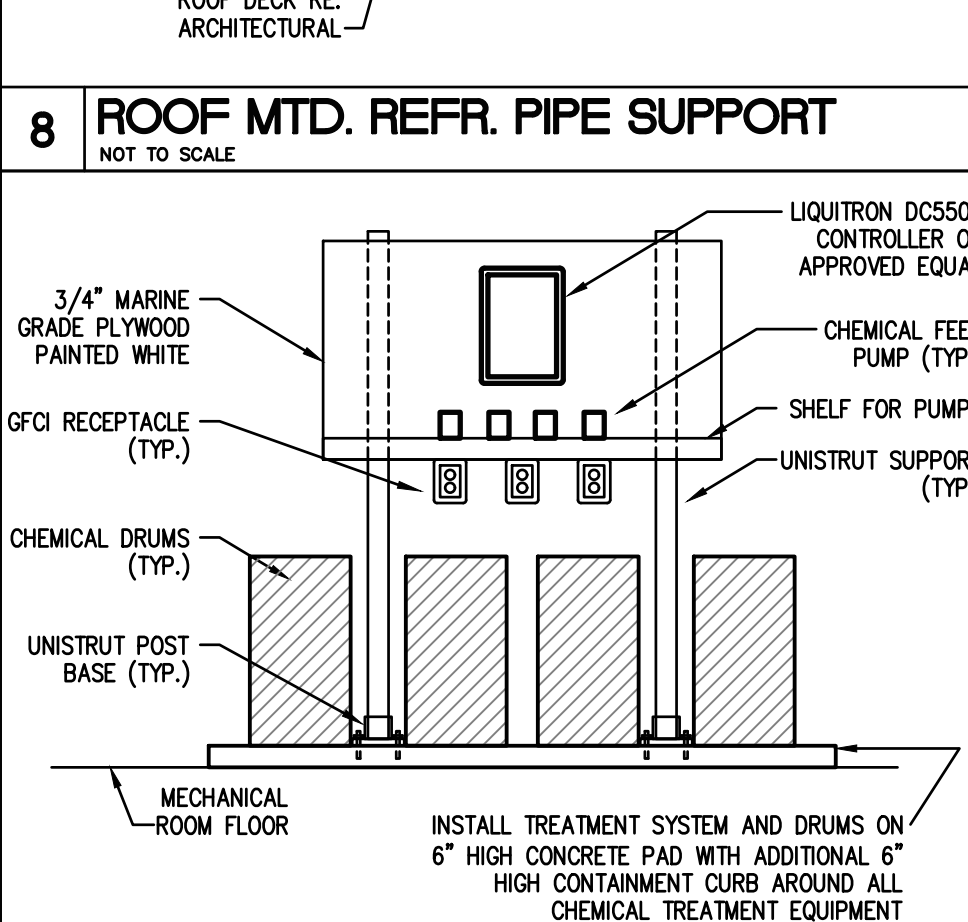
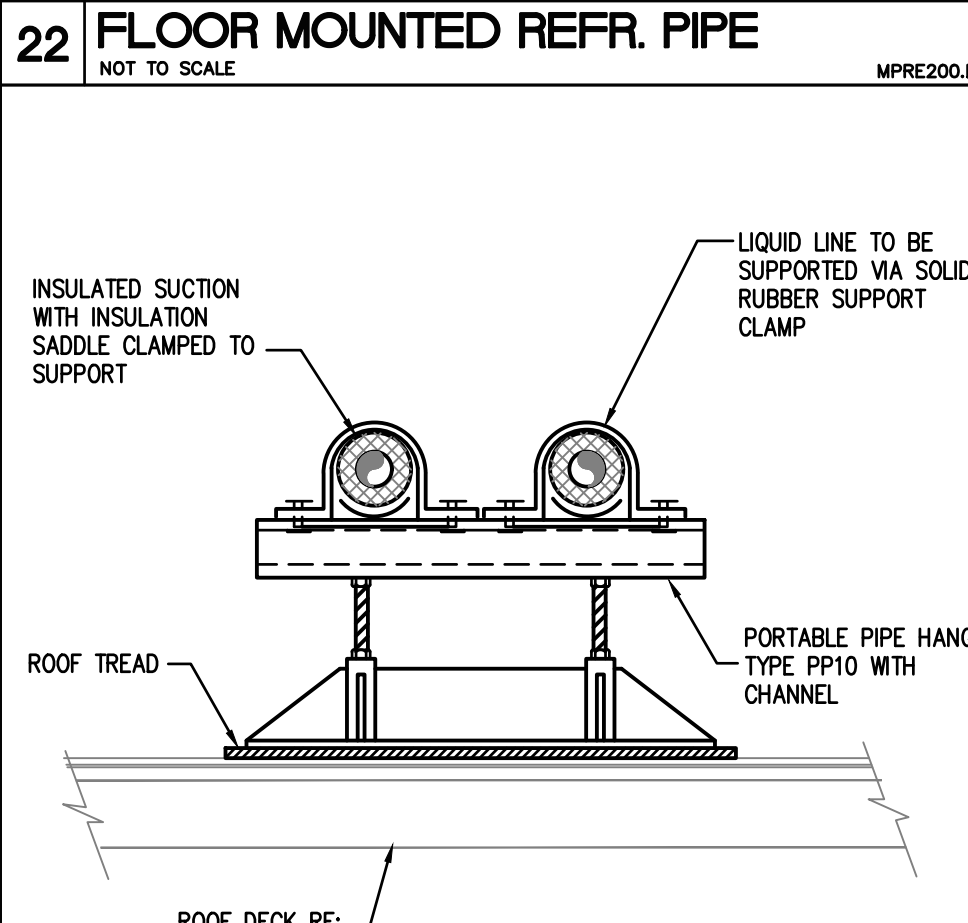
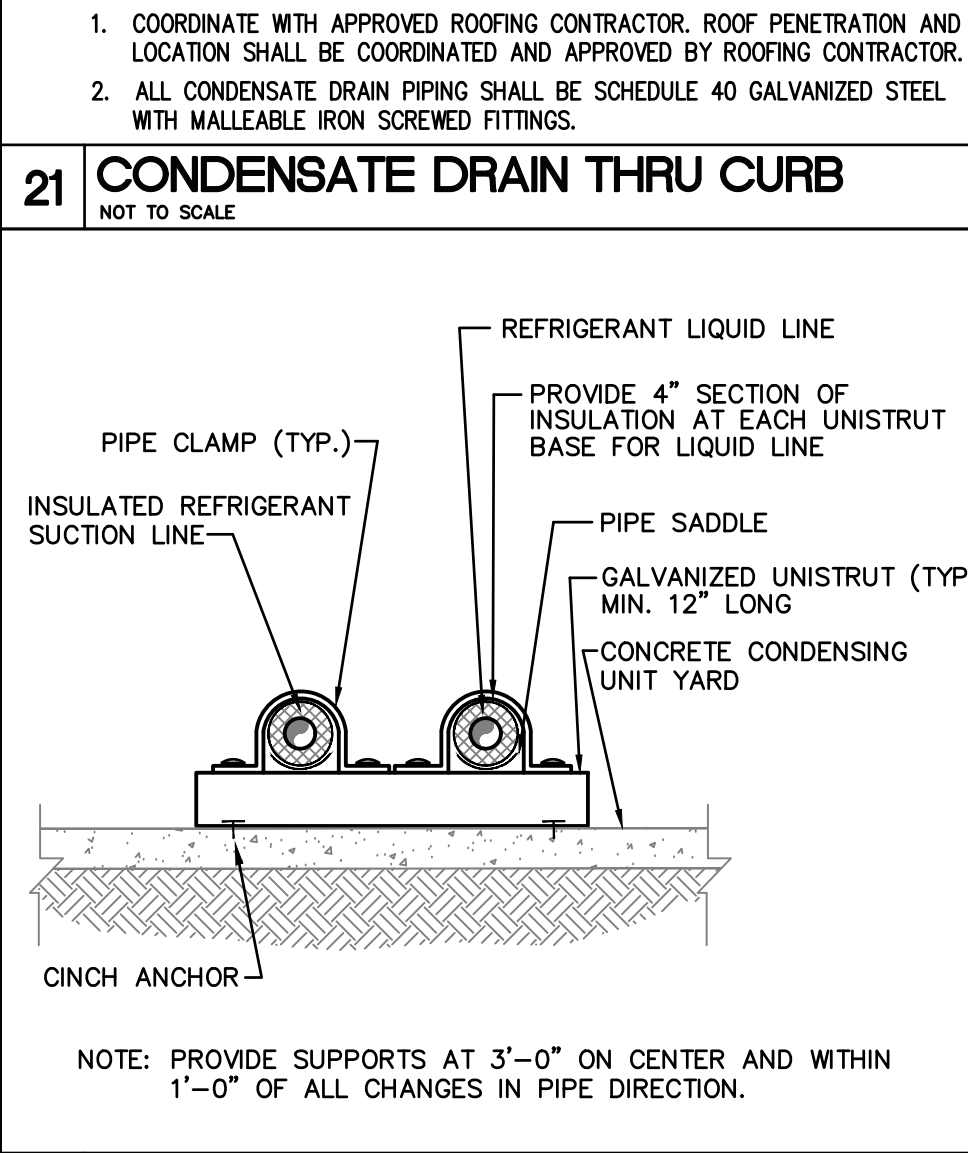
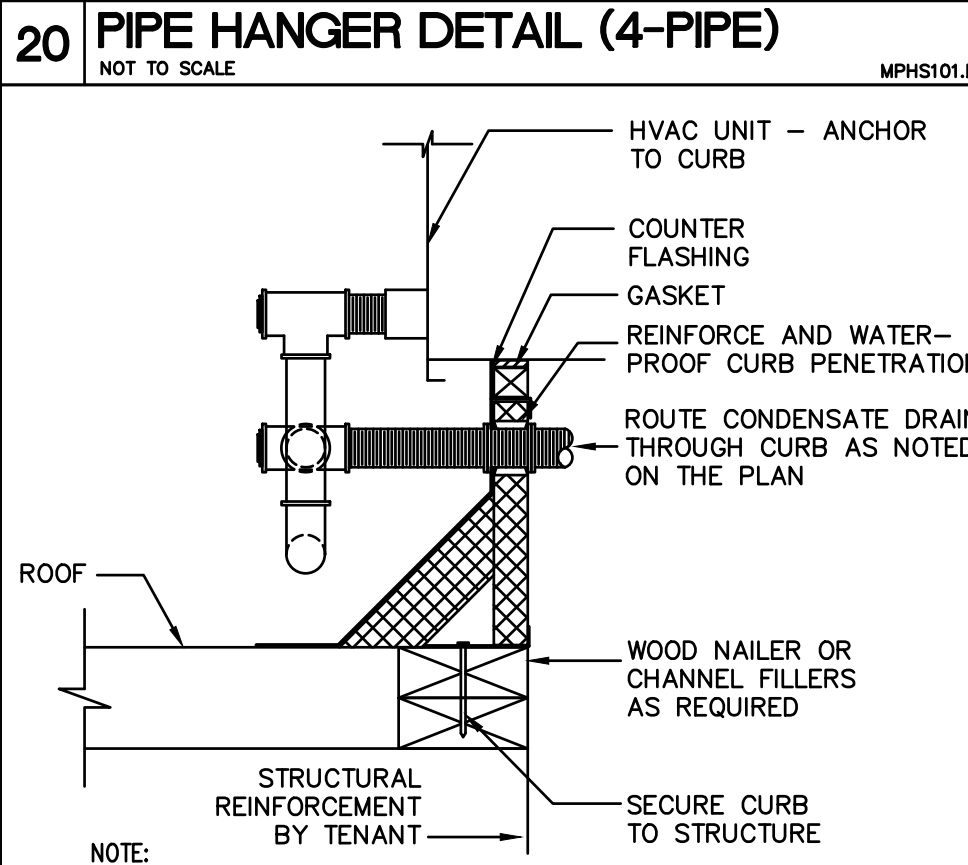
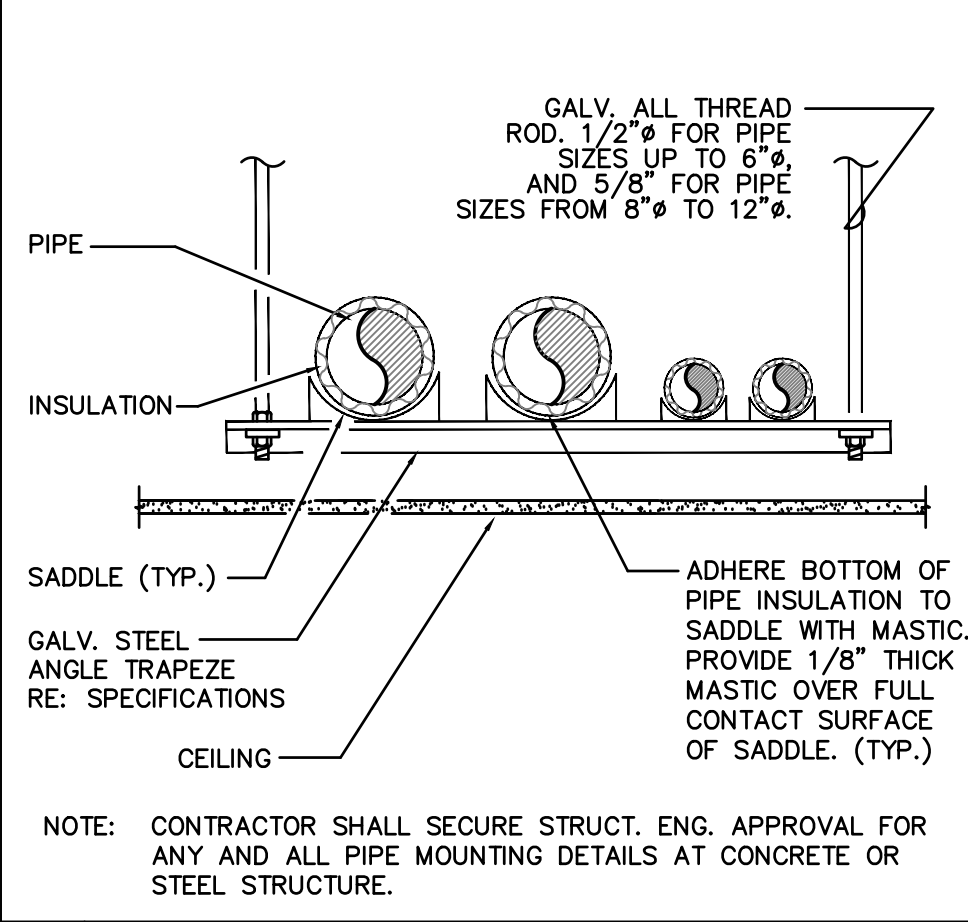
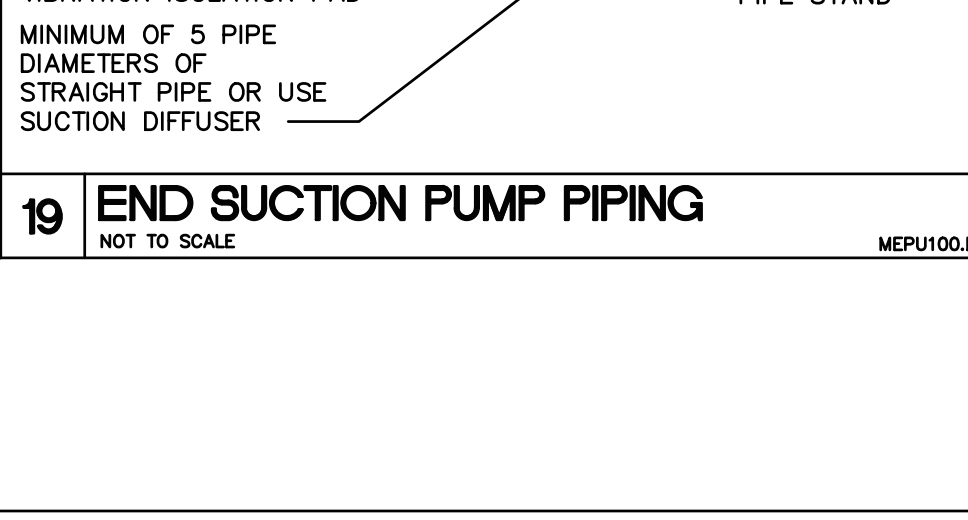
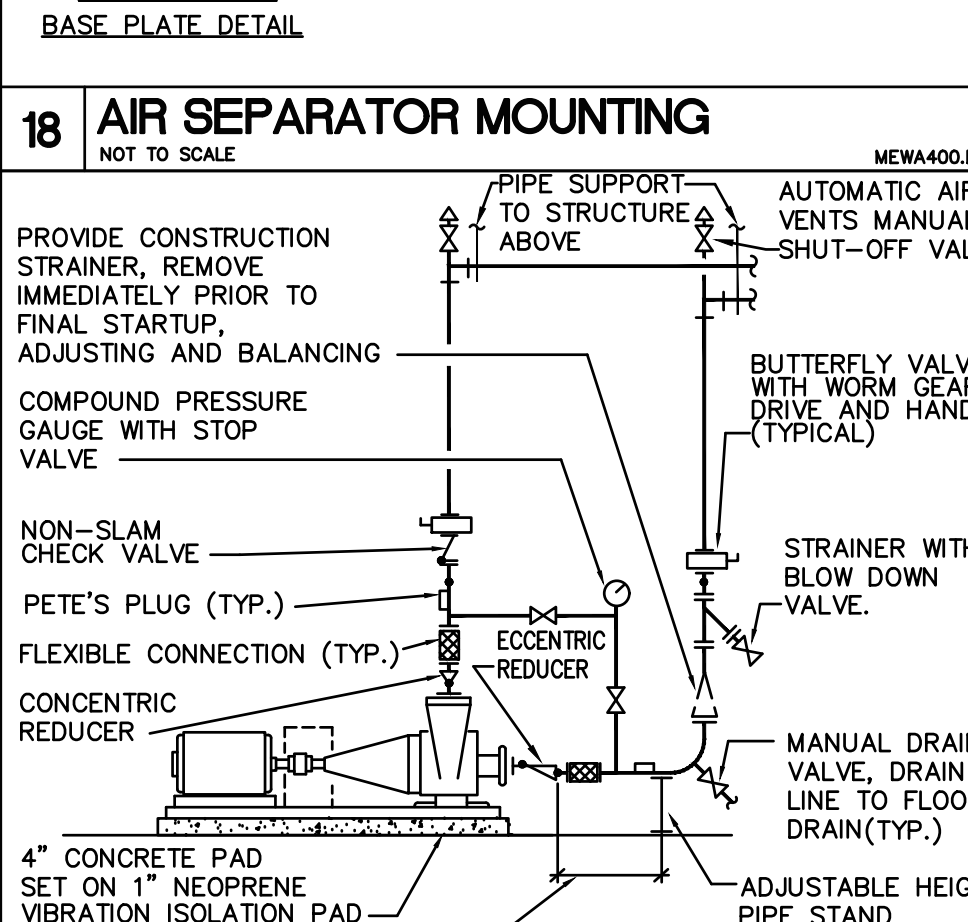
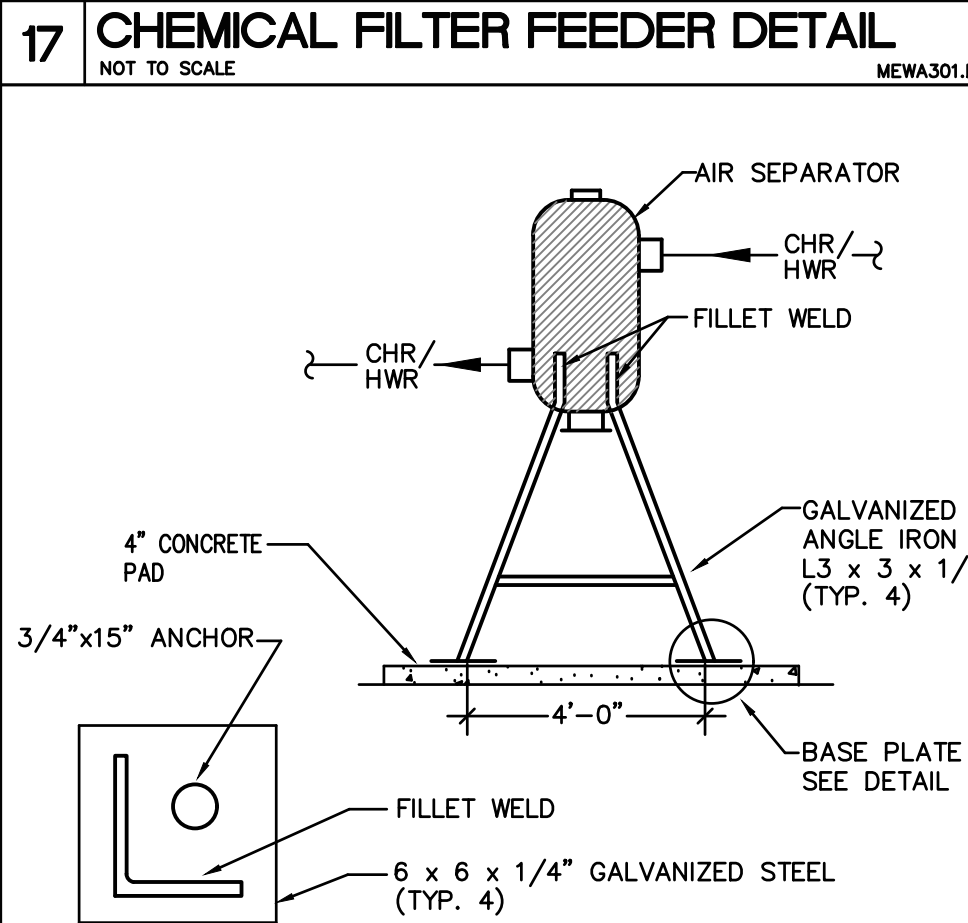
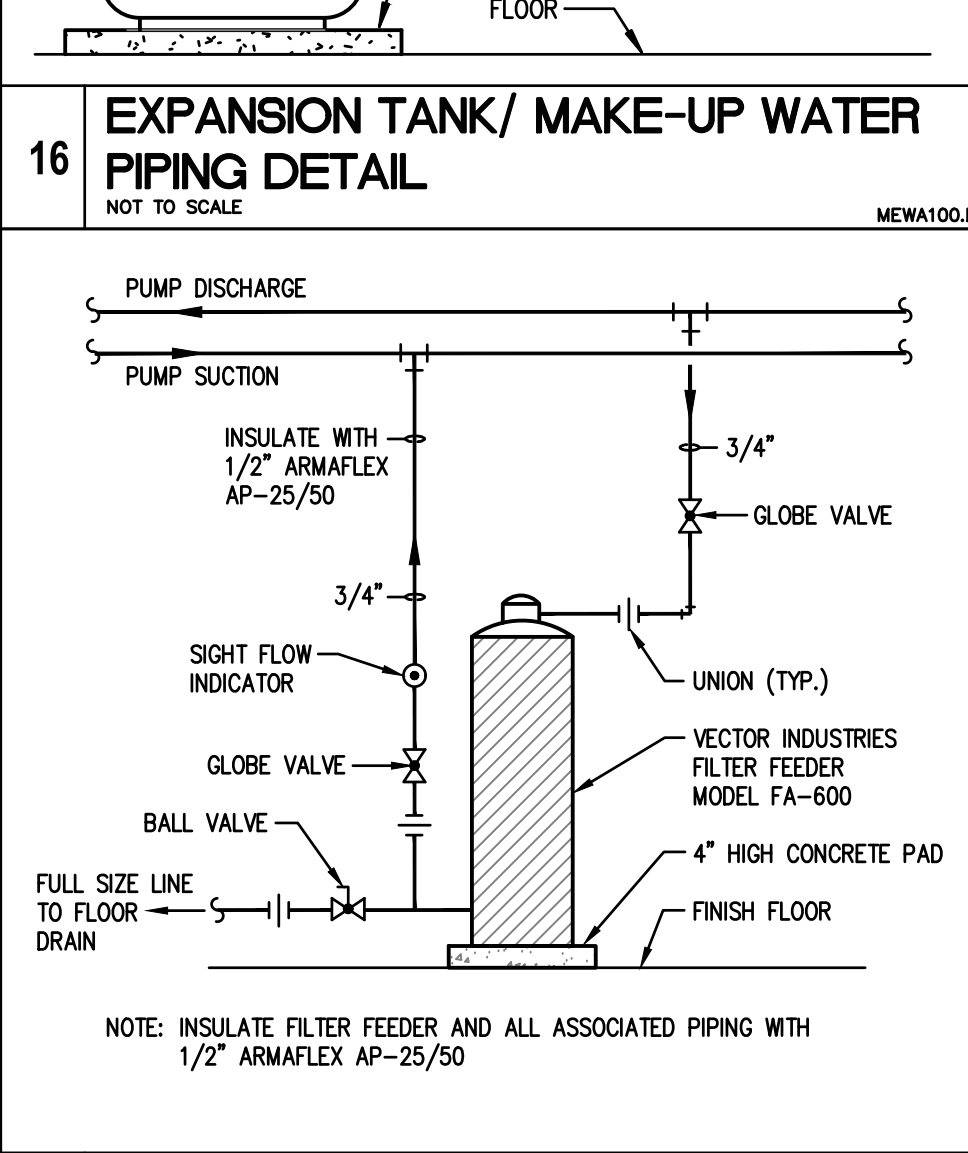
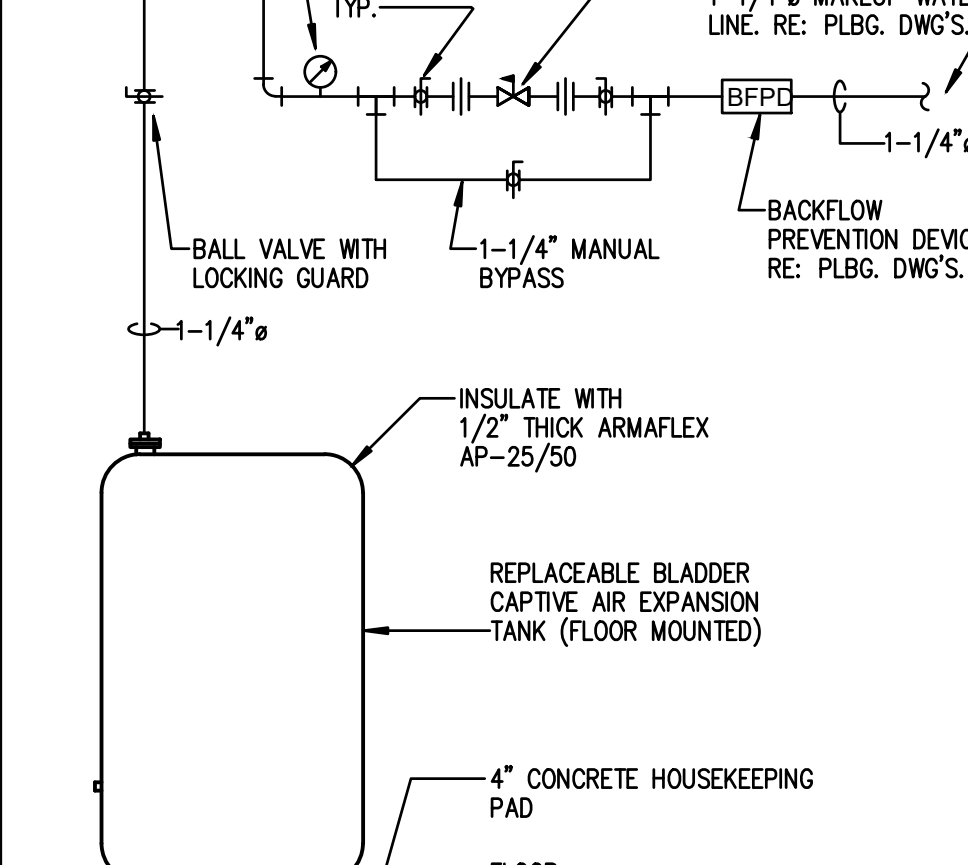
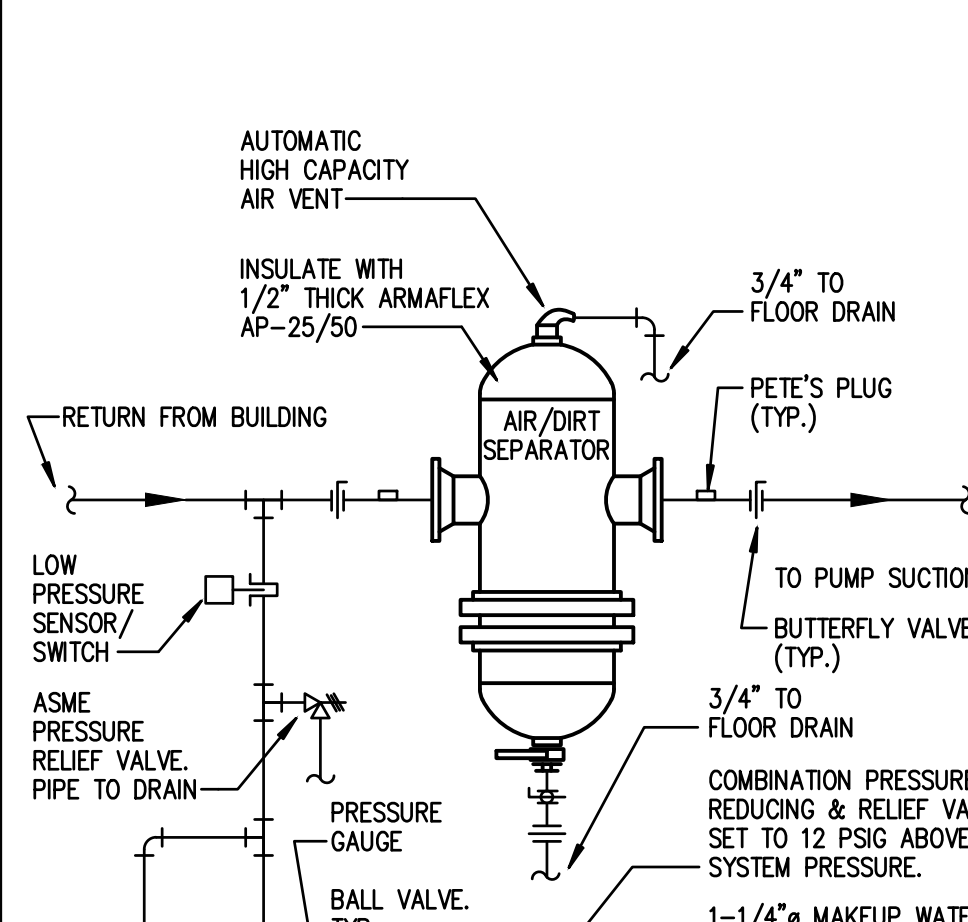
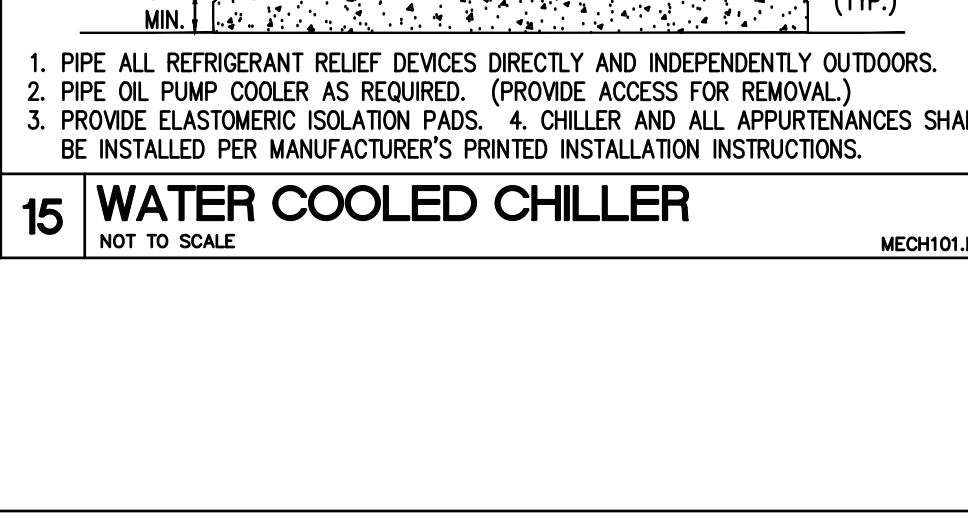
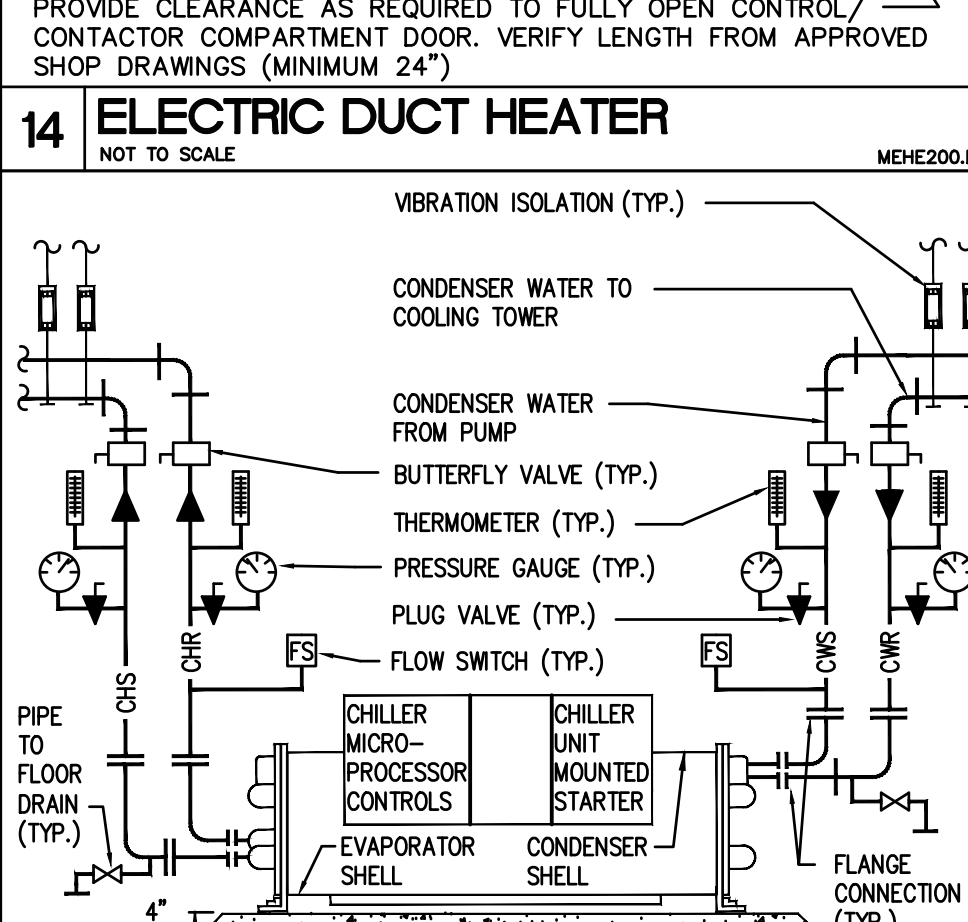
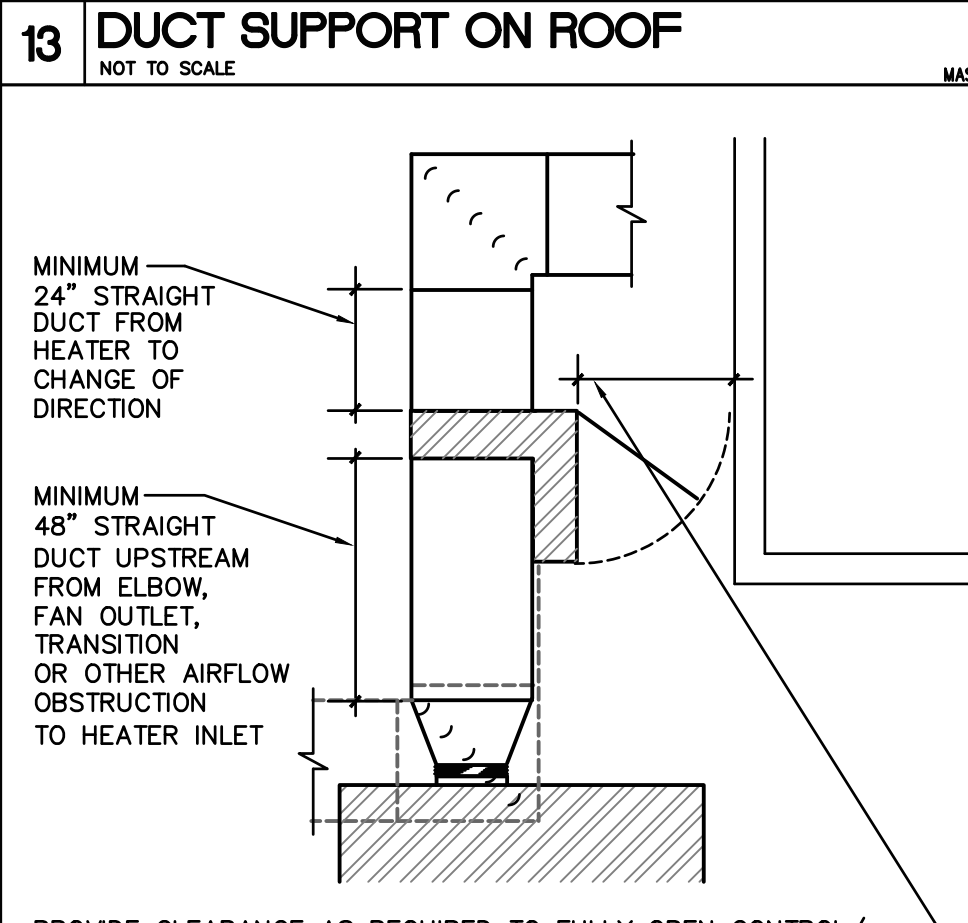
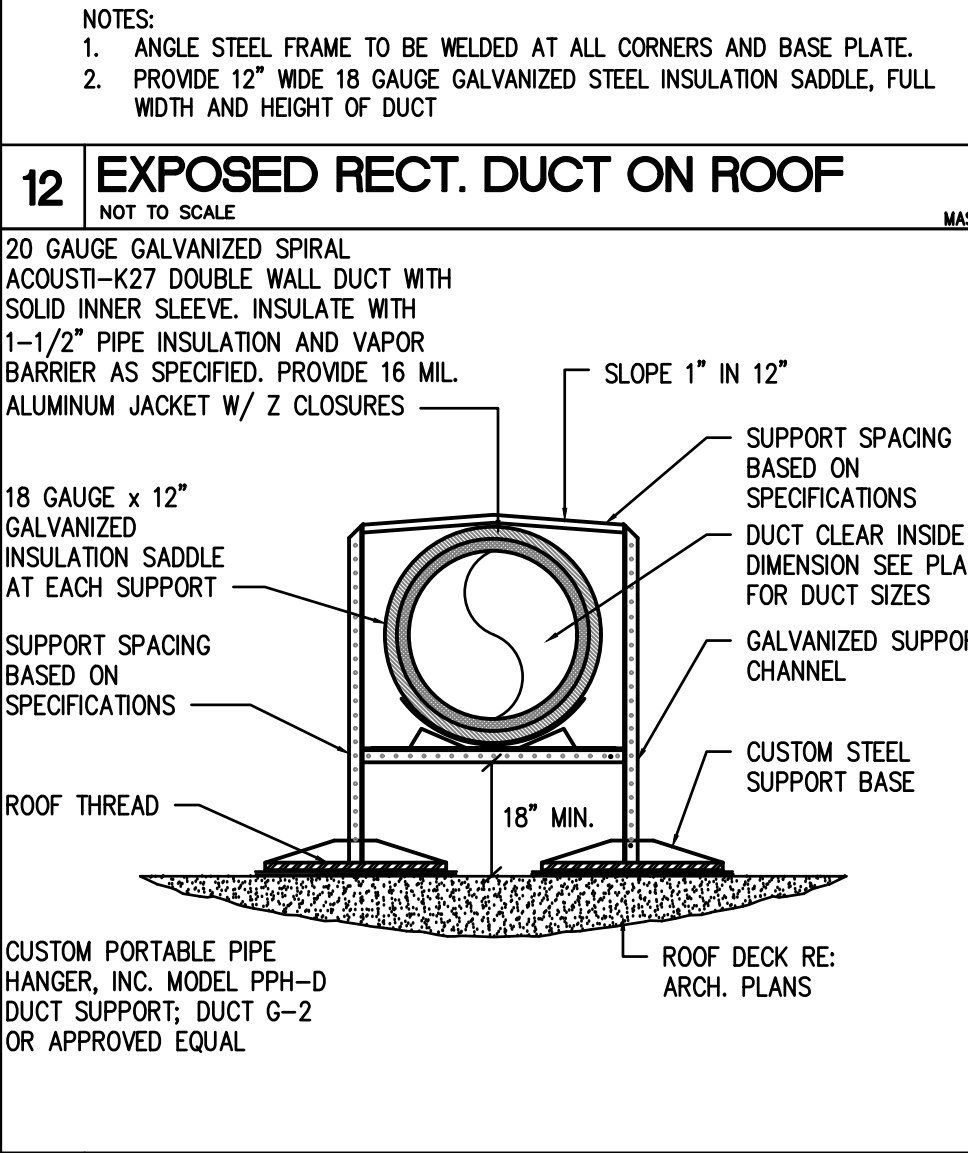
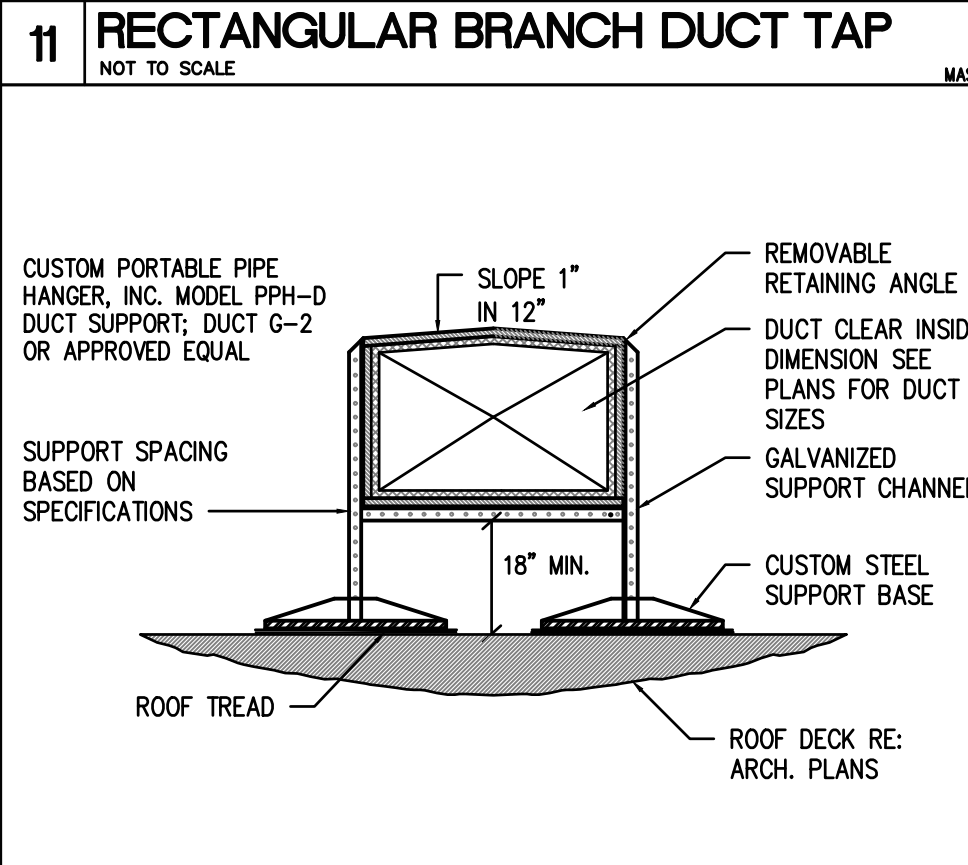
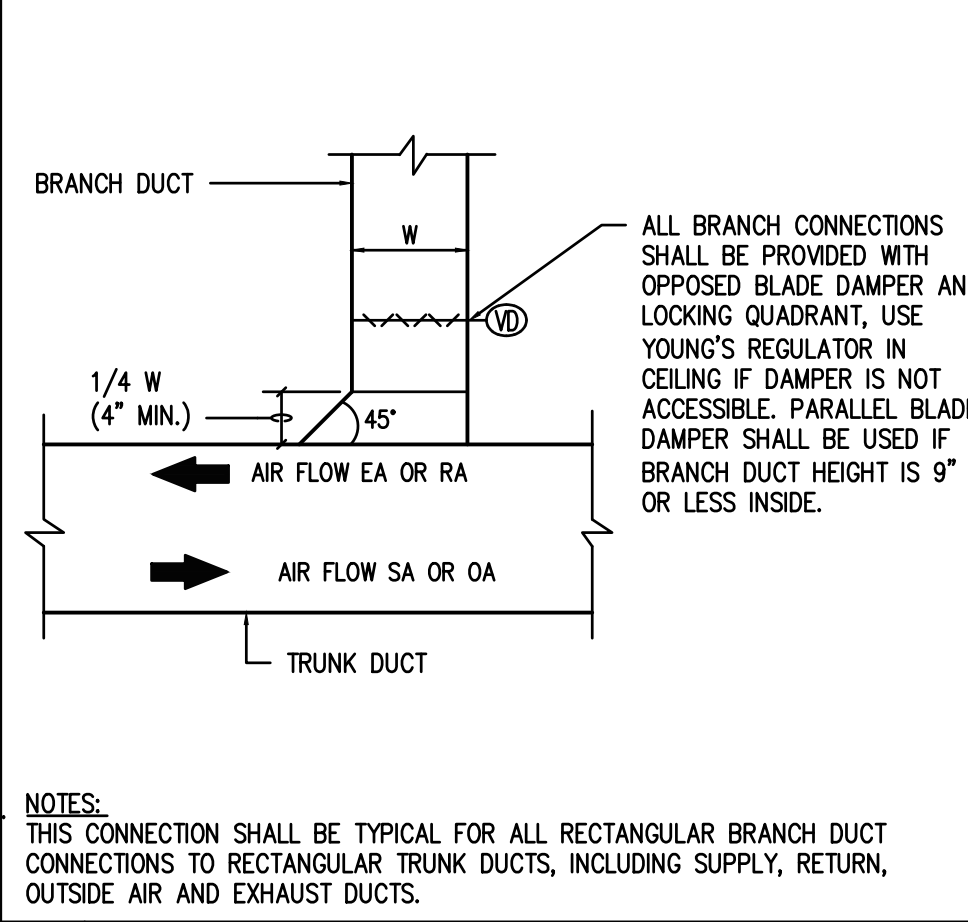
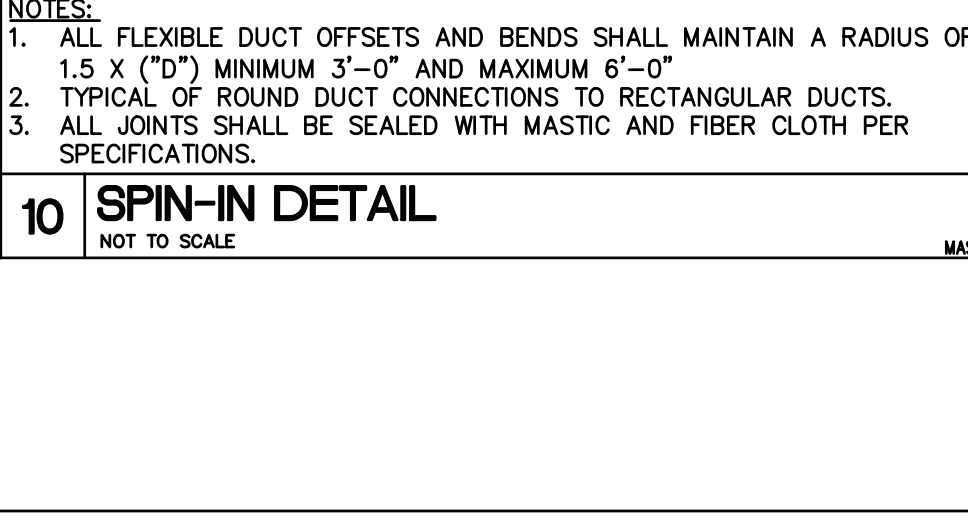
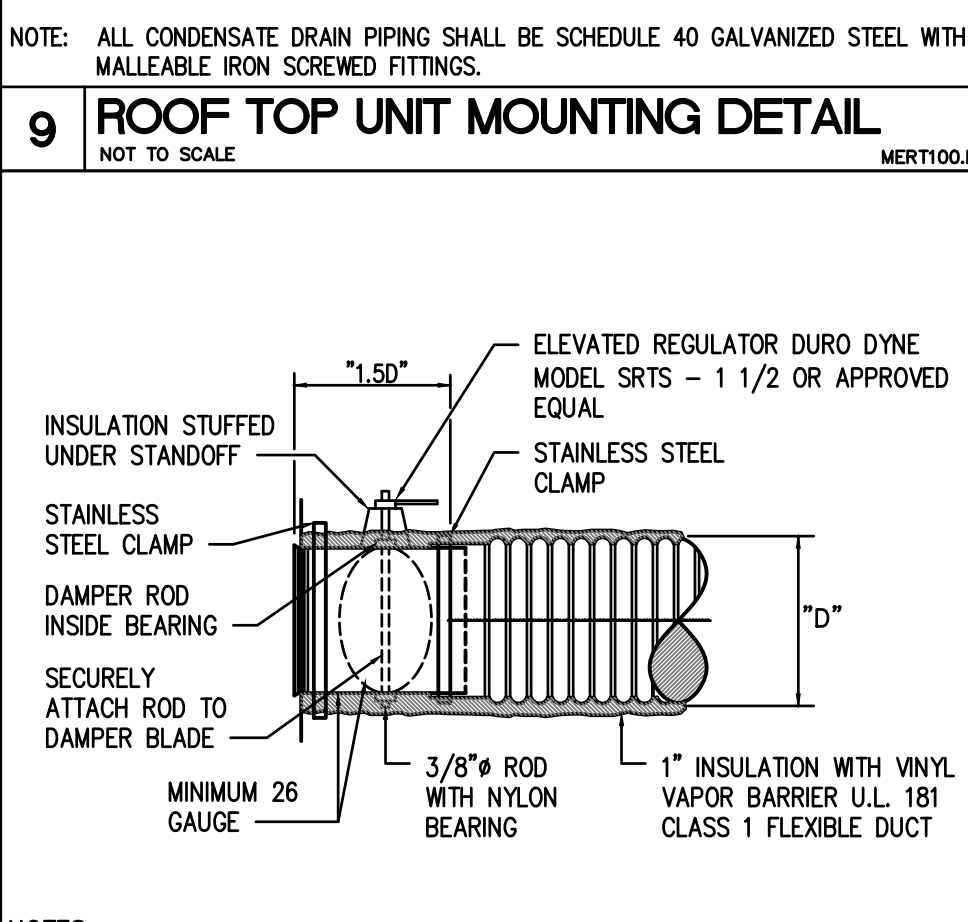
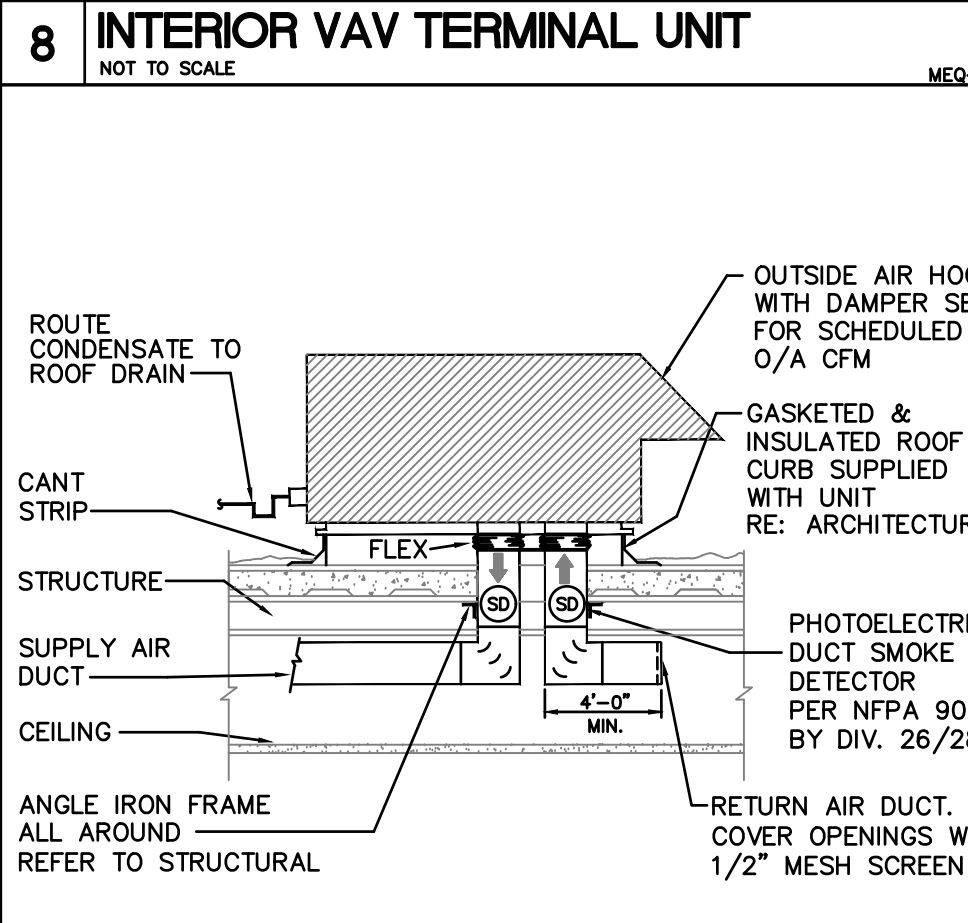
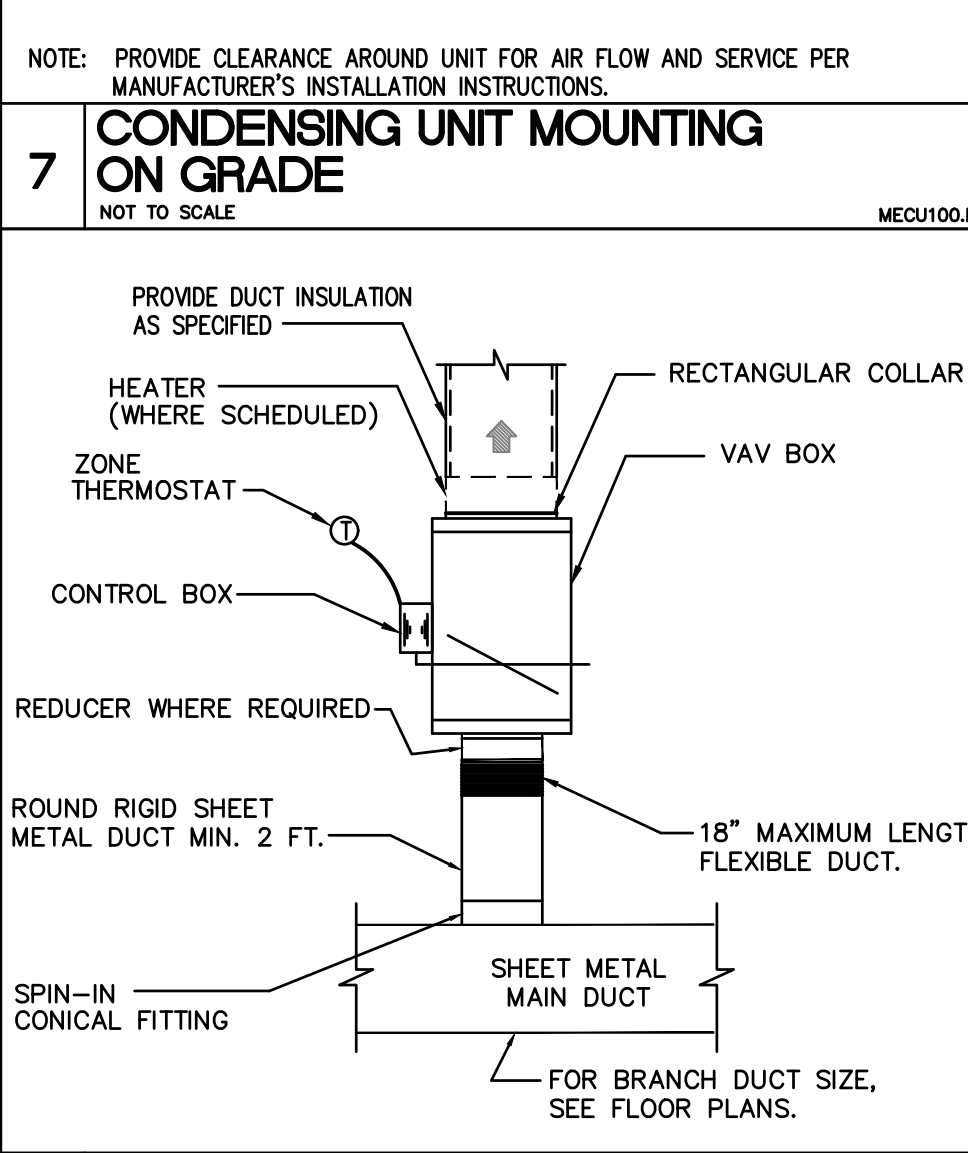
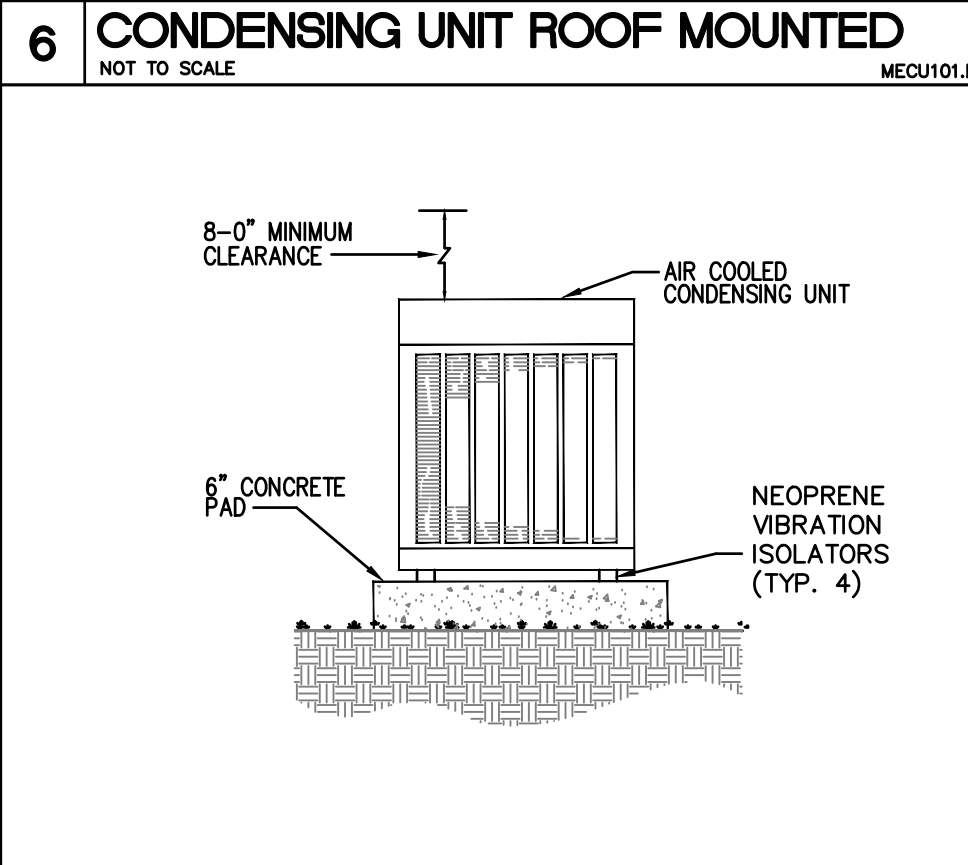
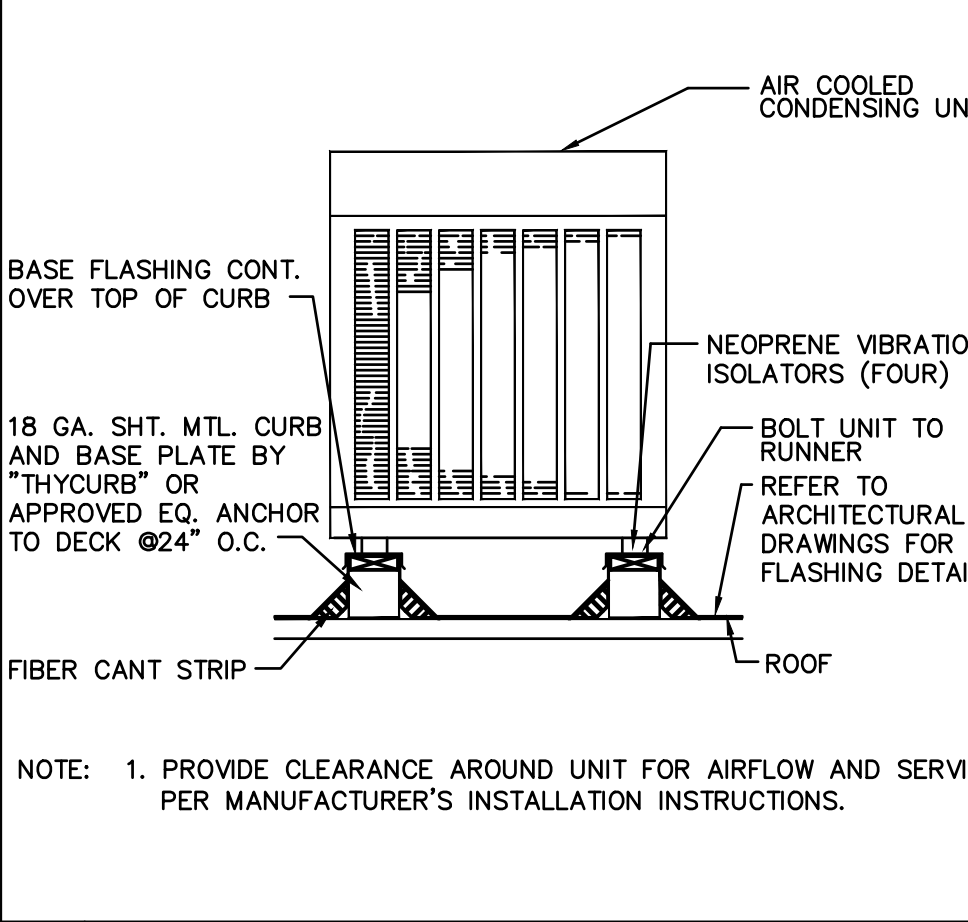
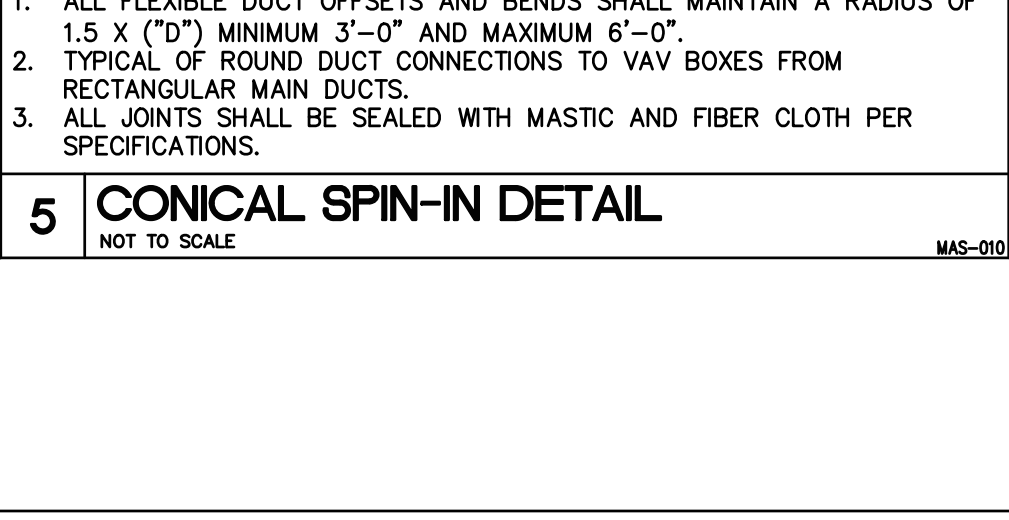
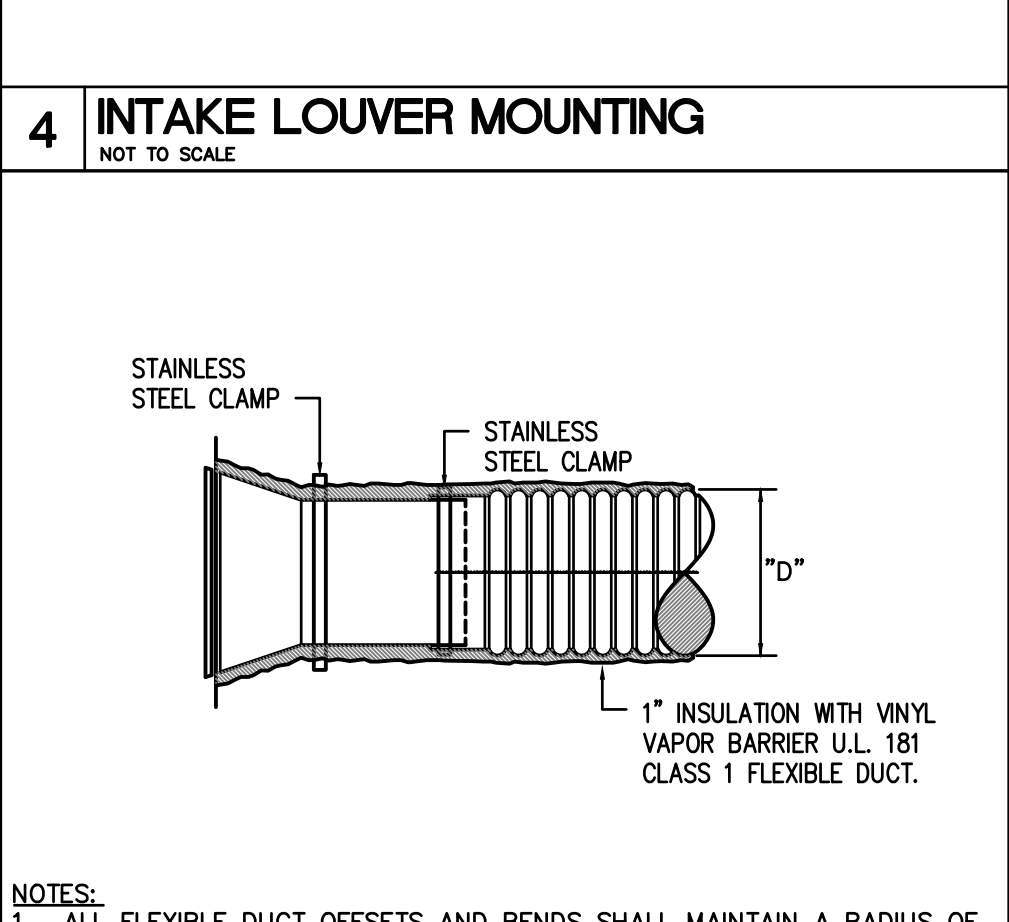
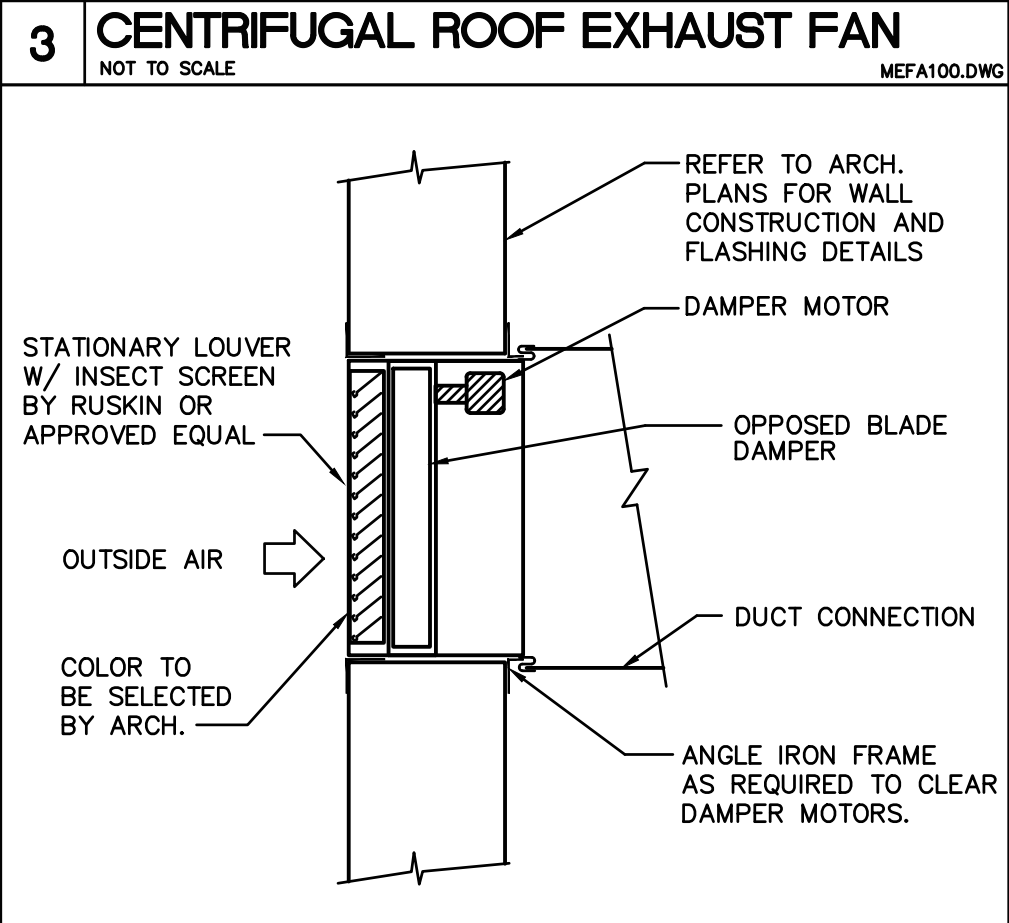
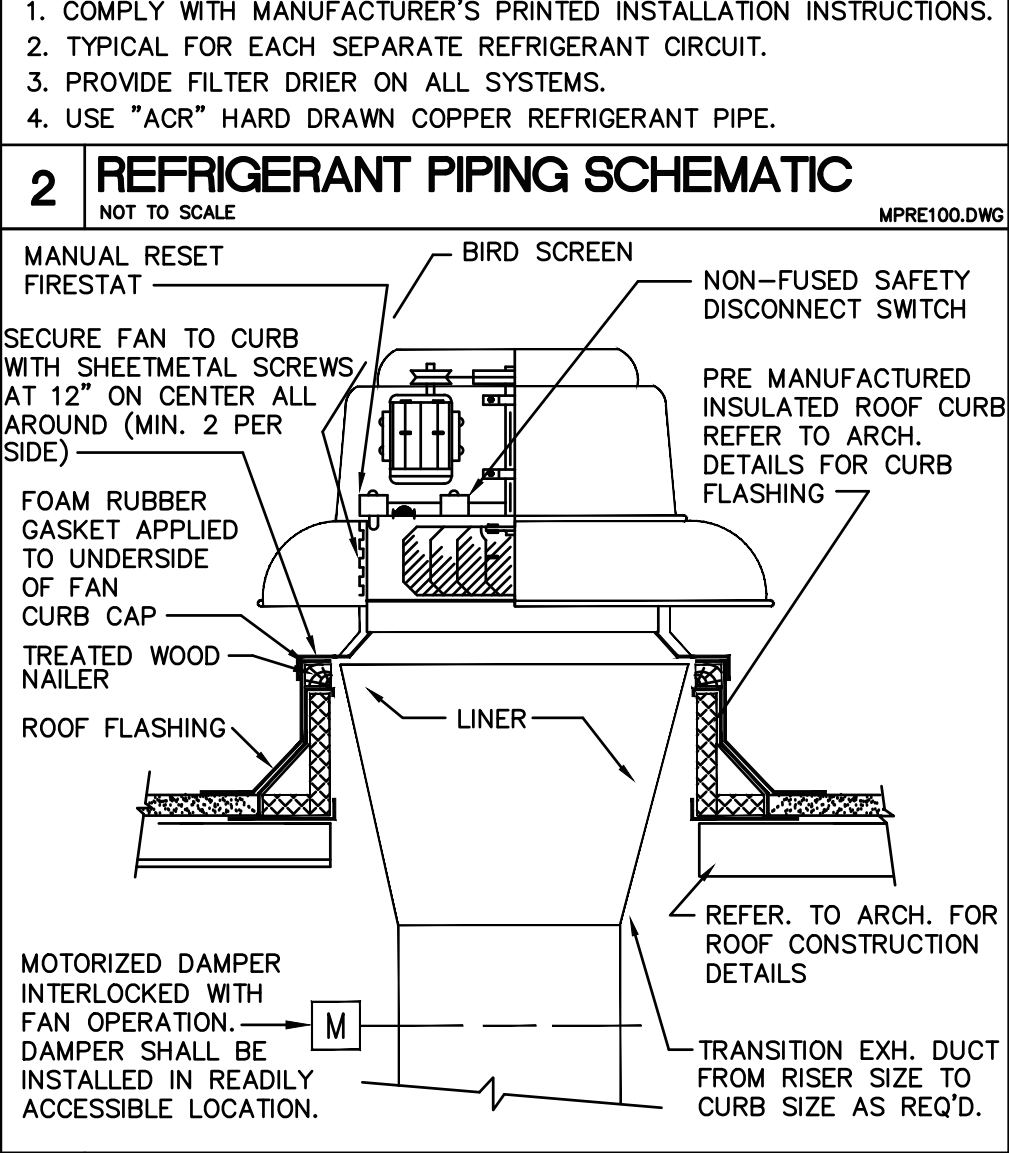
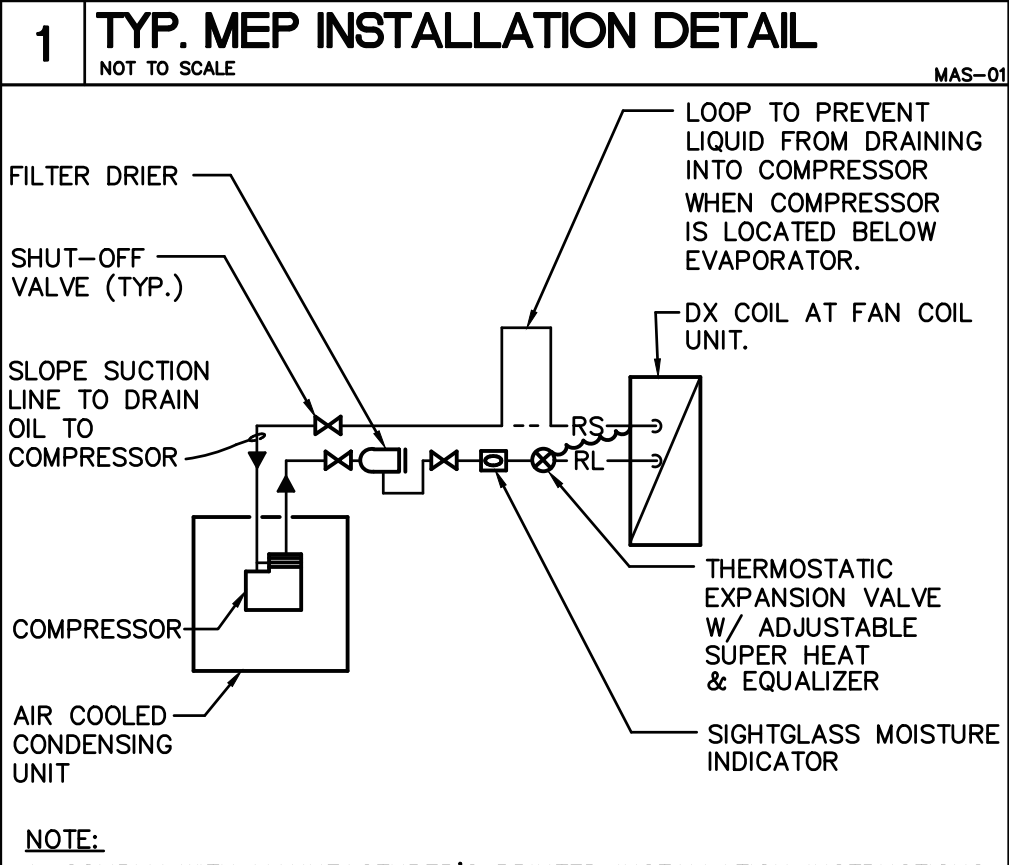
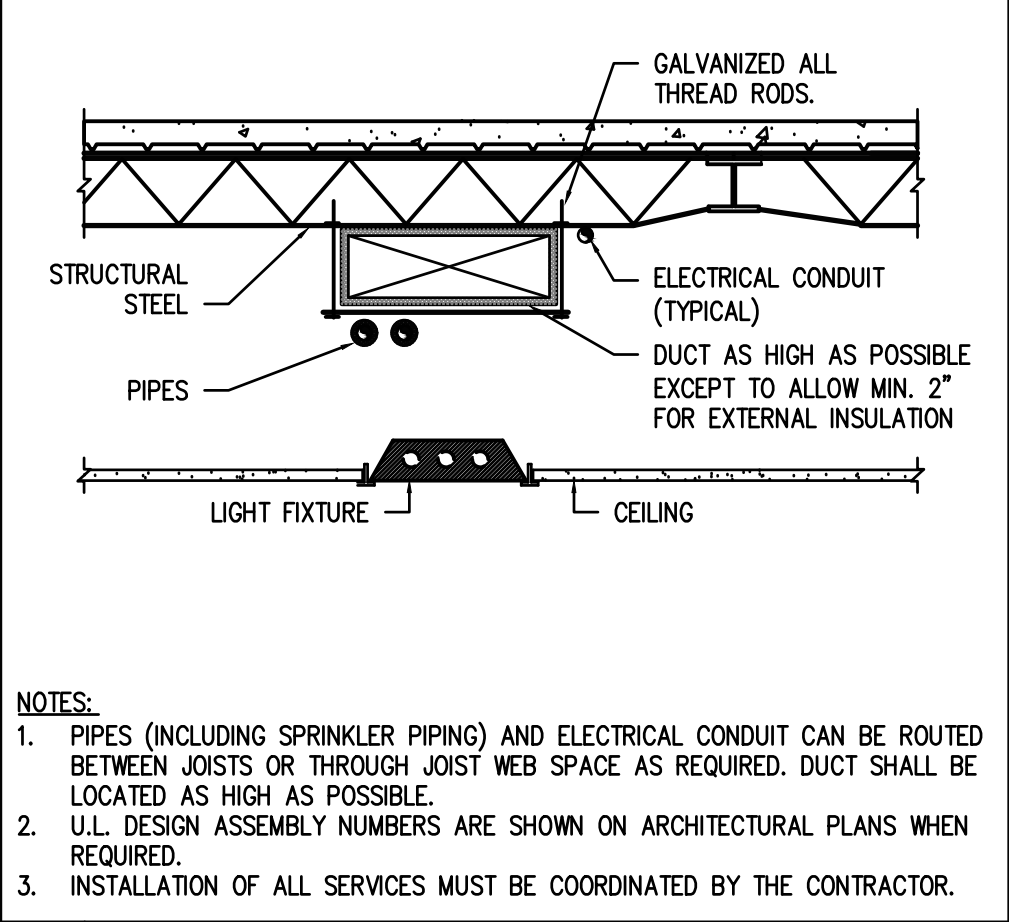
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| 01 | 3/23/2022 | ADDENDUM #1 |



EDINBURG CONSOLIDATED INDEPENDENT SCHOOL DISTRICT
MEMORIAL MS - HVAC IMPROVEMENTS
 3105 N DOOLITTLE RD, EDINBURG, TX 78542

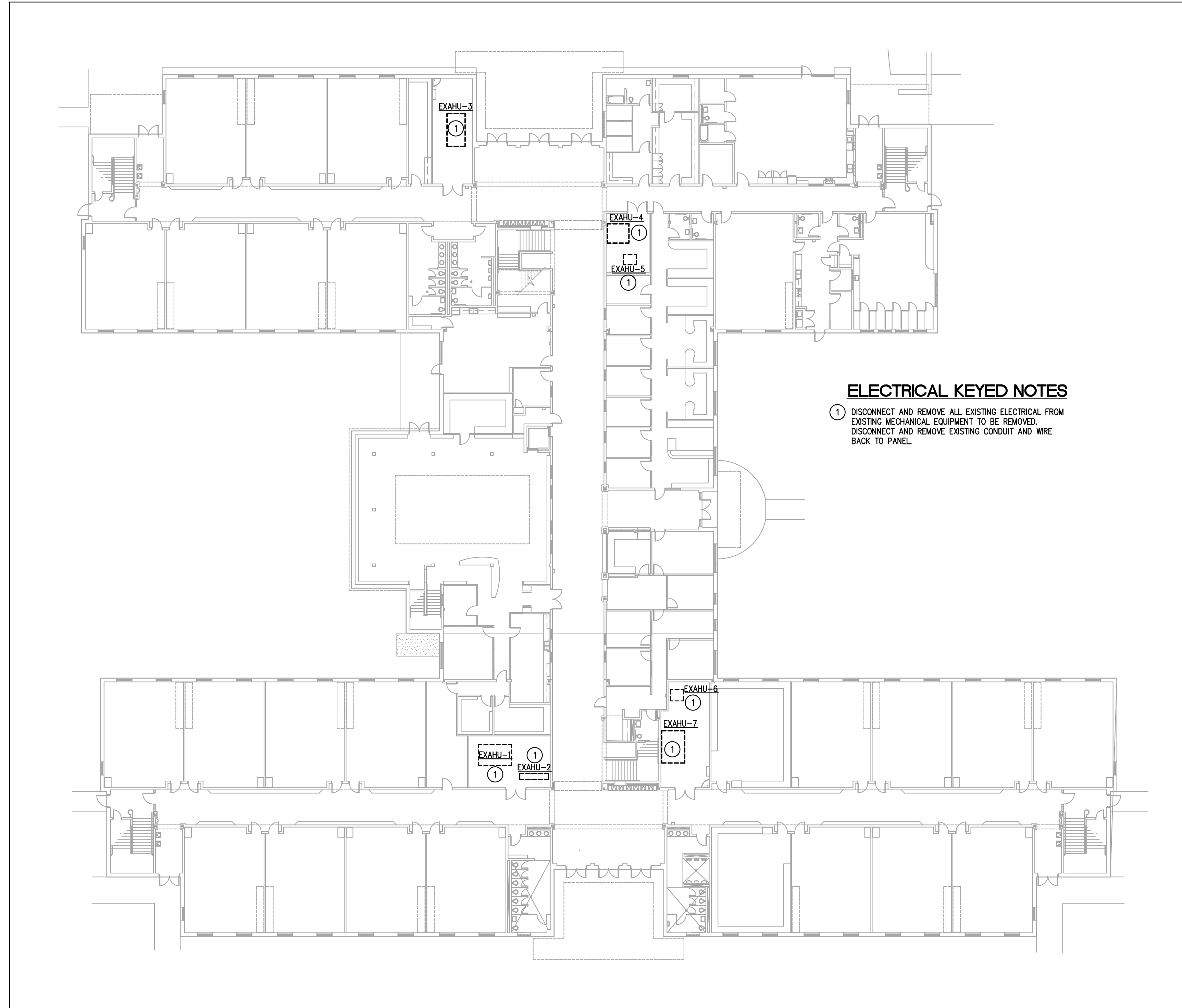
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 CHECKED BY: DBR
 PROJECT NUMBER: 218007.002
 SHEET TITLE: MECHANICAL DETAILS

SHEET NUMBER: M6.01
 DBR Project Number: 218007.002
 HA JA JB



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1 COMPOSITE LEVEL 1 ELECTRICAL POWER DEMOLITION PLAN
1"=20'-0"



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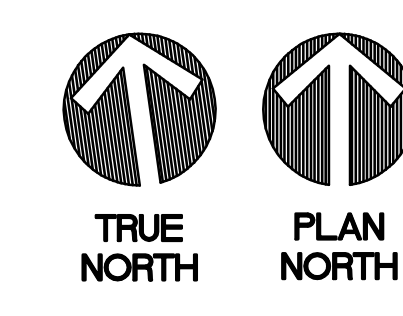
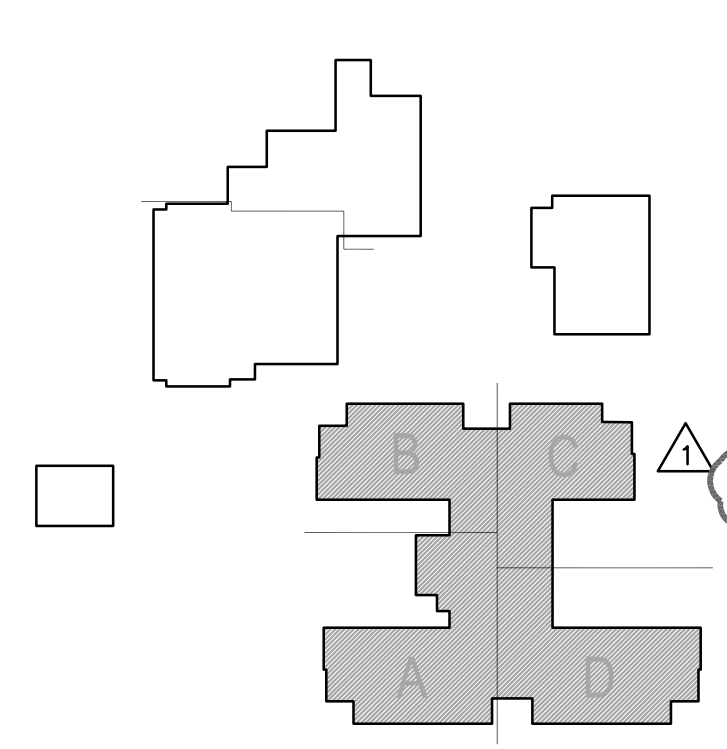
EDINBURG CONSOLIDATED INDEPENDENT SCHOOL DISTRICT
MEMORIAL MS - HVAC IMPROVEMENTS
3105 N DOOLITTLE RD, EDINBURG, TX 78542

DATE: 3/23/2022
 DRAWN BY: DBR
 CHECKED BY: DBR
 PROJECT NUMBER: 218007.002
 SHEET TITLE:

COMPOSITE LEVEL 1 ELECTRICAL POWER DEMOLITION PLAN

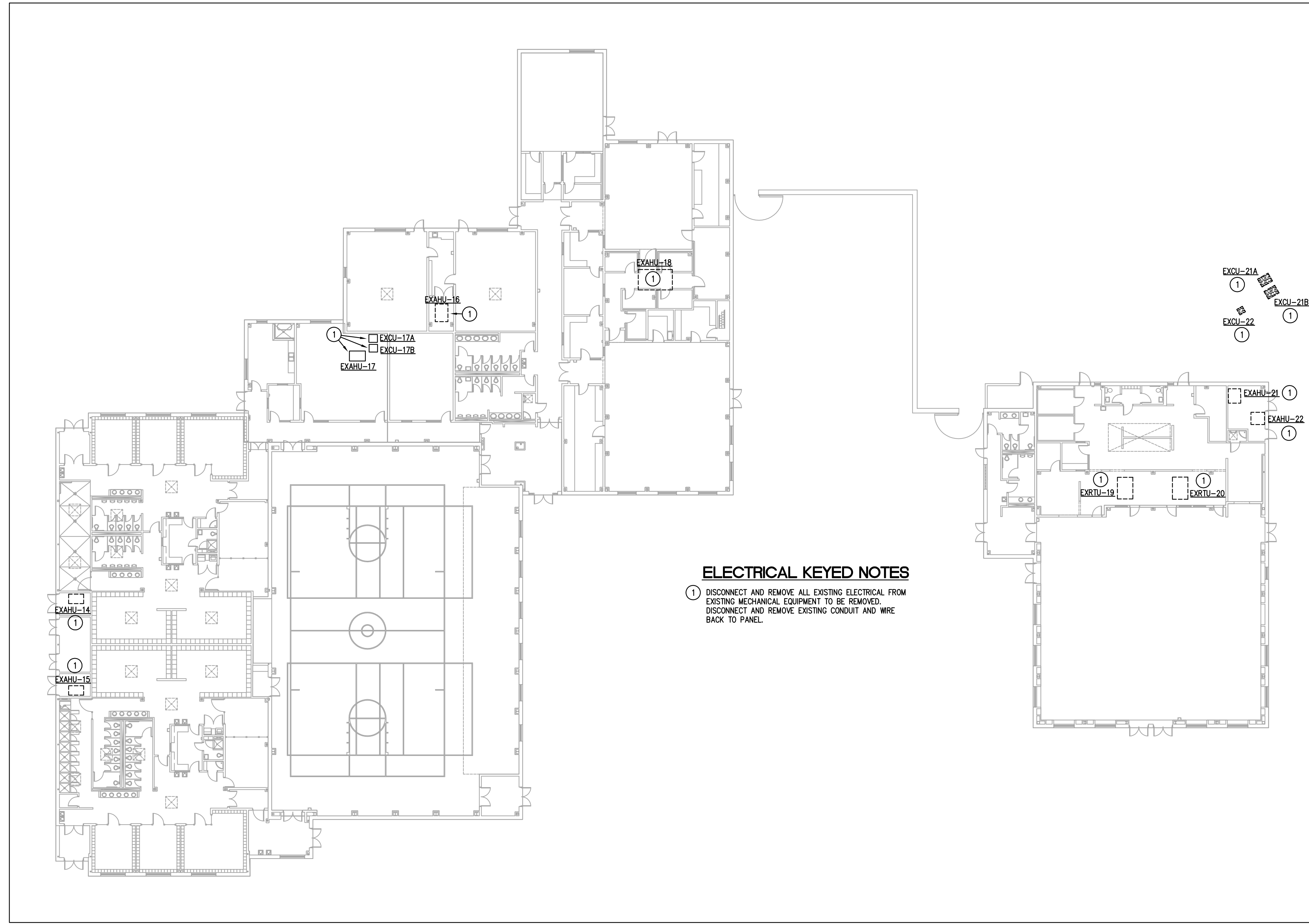
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DBR Project Number 218007.002
HA JA JB

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ELECTRICAL KEYED NOTES

① DISCONNECT AND REMOVE ALL EXISTING ELECTRICAL FROM EXISTING MECHANICAL EQUIPMENT TO BE REMOVED. DISCONNECT AND REMOVE EXISTING CONDUIT AND WIRE BACK TO PANEL.

① **COMPOSITE LEVEL 1 ELECTRICAL POWER DEMOLITION PLAN**
 EPD1.12 1"=20'-0"

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**EDINBURG CONSOLIDATED INDEPENDENT SCHOOL DISTRICT
 MEMORIAL MS - HVAC IMPROVEMENTS**
 3105 N DOOLITTLE RD, EDINBURG, TX 78542

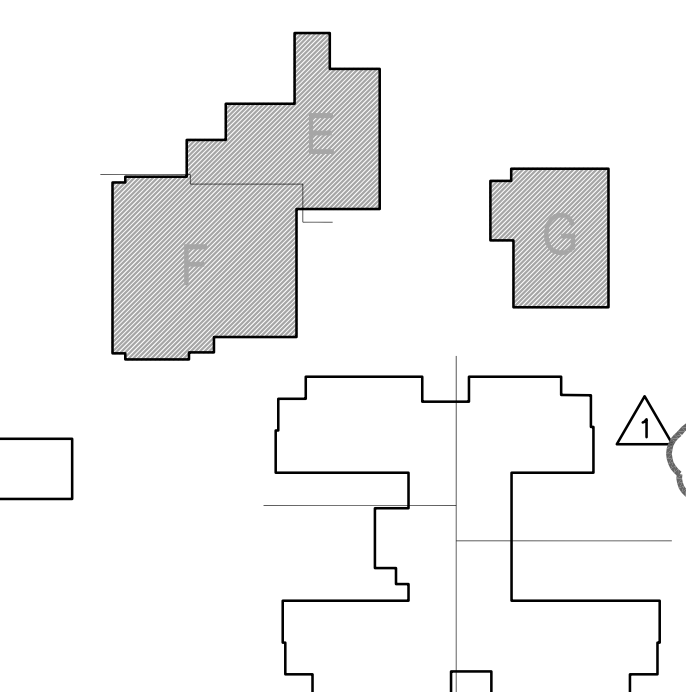
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 PROJECT NUMBER: 218007.002
 SHEET TITLE:

COMPOSITE LEVEL 1 ELECTRICAL POWER DEMOLITION PLAN

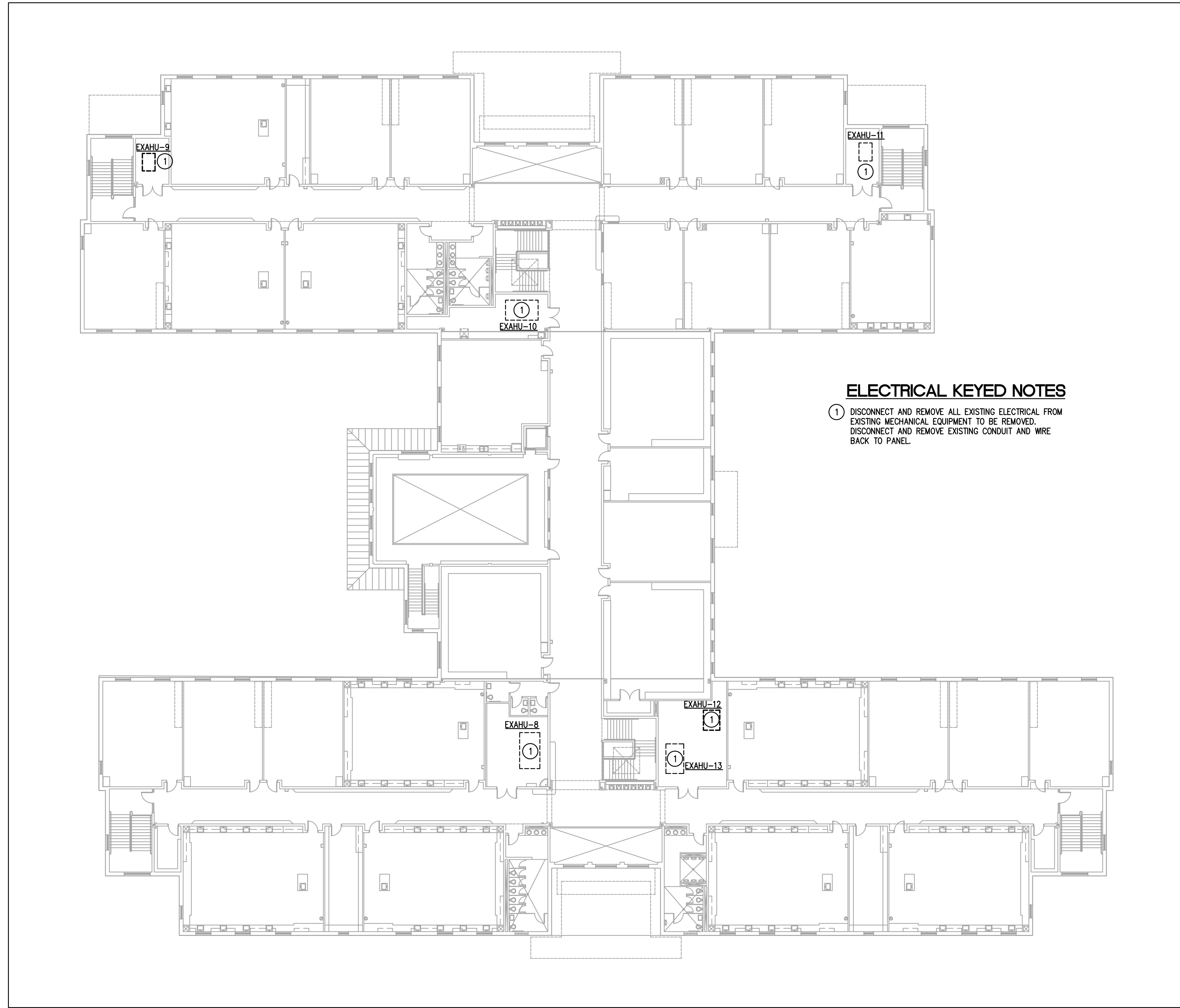
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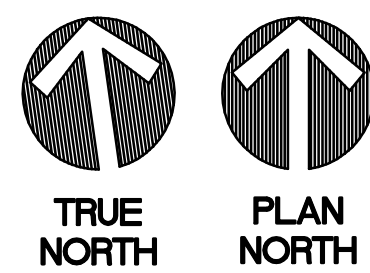
DBR
 9990 Richmond Avenue, South Building, Suite 300
 Houston, Texas 77042
 713.914.0888 p 713.914.0886 f
 TBPE Firm Registration No. 2234
 DBR Project Number 218007.002
 HA JA JB



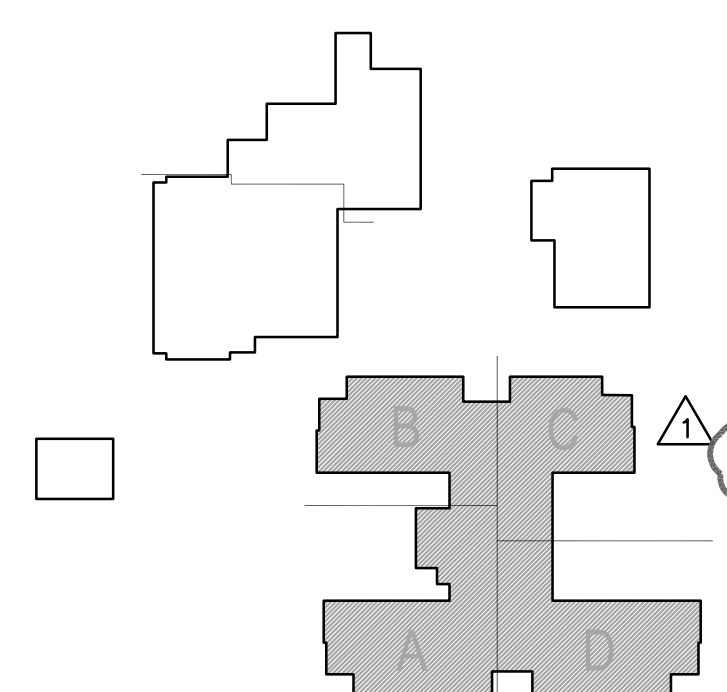
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① COMPOSITE LEVEL 2 ELECTRICAL POWER DEMOLITION PLAN
1" = 20'-0"



DBR Project Number 218007.002
HA JA JB



REVISION

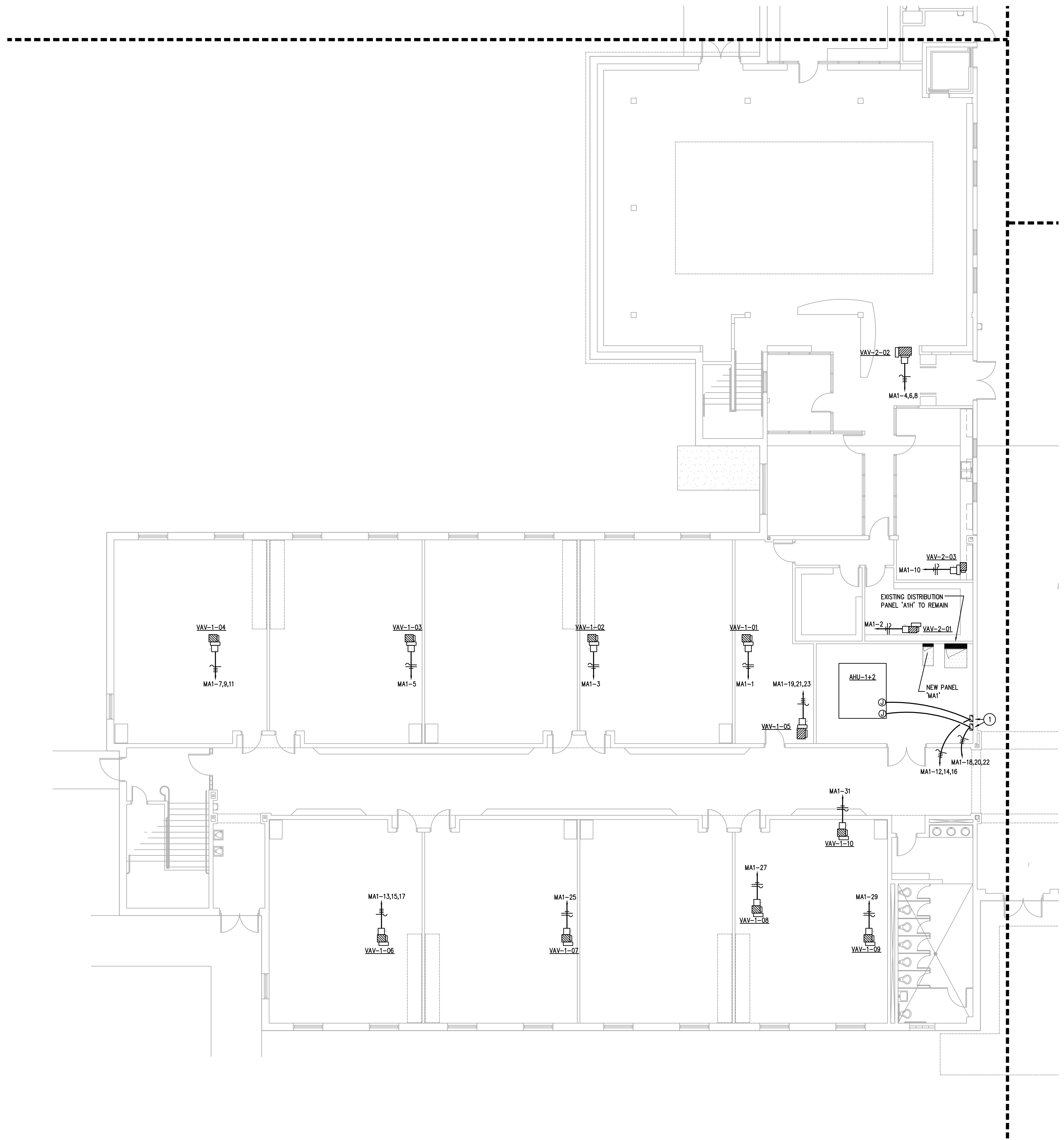
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EDINBURG CONSOLIDATED INDEPENDENT SCHOOL DISTRICT
MEMORIAL MS - HVAC IMPROVEMENTS
3105 N DOOLITTLE RD, EDINBURG, TX 78542

DATE: 3/23/2022
DRAWN BY: DBR
CHECKED BY: DBR
PROJECT NUMBER: 218007.002
SHEET TITLE: COMPOSITE LEVEL 2 ELECTRICAL POWER DEMOLITION PLAN
SHEET NUMBER: EPD1.21

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GENERAL ELECTRICAL NOTES:

- A. CONTRACTOR SHALL VERIFY MECHANICAL EQUIPMENT CONNECTION LOCATION WITH FURNISHED EQUIPMENT.
- B. CONTRACTOR SHALL PROVIDE HANDLE TIES MANUFACTURED BY THE SWITCH GEAR SUPPLIER ON ALL MULTI-WIRE CIRCUITS TO MEET THE REQUIREMENTS OF ARTICLE 210.4(B) OF THE 2014 NEC. AT THE CONTRACTOR'S OPTION, TWO AND THREE POLE BREAKERS MAY BE USED.
- C. ALL VAV BOXES ARE SUPPLIED WITH INTEGRAL DISCONNECT SWITCH. VERIFY EXACT LOCATION AND REQUIREMENTS WITH MECHANICAL.
- D. CONTRACTOR SHALL NOTE THAT ALL MATERIALS BEING USED WITHIN THE CEILING PLENUM MUST BE PLENUM RATED.

ELECTRICAL KEYED NOTES

- ① VFD, VERIFY EXACT LOCATION AND REQUIREMENTS WITH MECHANICAL. VFD SHALL BE PROVIDED AND INSTALLED BY MECHANICAL. WIRED BY ELECTRICAL. VFD SHALL SERVE AS DISCONNECTING MEANS.
- ② DISCONNECT SWITCH PROVIDED WITH EQUIPMENT. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH MECHANICAL.

1
LEVEL 1 ELECTRICAL POWER PLAN - A
 EP2.11A 1/8" = 1'-0"



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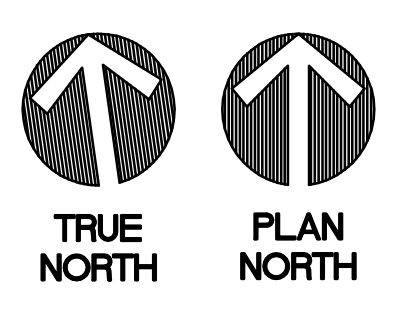
EDINBURG CONSOLIDATED INDEPENDENT SCHOOL DISTRICT
MEMORIAL MS - HVAC IMPROVEMENTS
 3105 N DOOLITTLE RD, EDINBURG, TX 78542

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| DATE: | 3/23/2022 |
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| CHECKED BY: | DBR |
| PROJECT NUMBER: | 218007.002 |
| SHEET TITLE: | LEVEL 1 ELECTRICAL POWER PLAN - A |

LEVEL 1 ELECTRICAL POWER PLAN - A

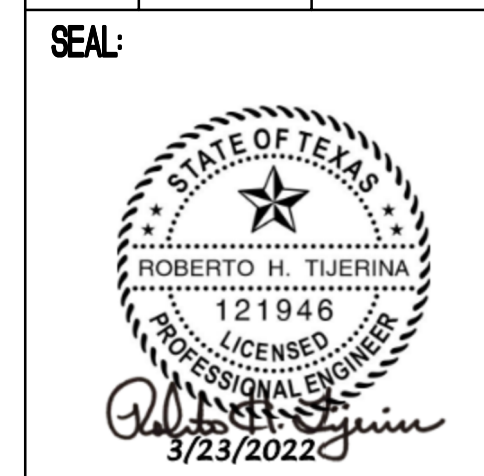
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EP2.11A



DBR
 9990 Richmond Avenue, South Building, Suite 300
 Houston, Texas 77042
 713.914.0888 p. 713.914.0886 f.
 TBPE Firm Registration No. 2234
 DBR Project Number: 218007.002
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EDINBURG CONSOLIDATED INDEPENDENT SCHOOL DISTRICT
MEMORIAL MS - HVAC IMPROVEMENTS
3105 N DOOLITTLE RD, EDINBURG, TX 78542

DATE:
3/23/2022
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DBR
CHECKED BY:
DBR
PROJECT NUMBER:
218007.002
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LEVEL 1
ELECTRICAL
POWER PLAN - B

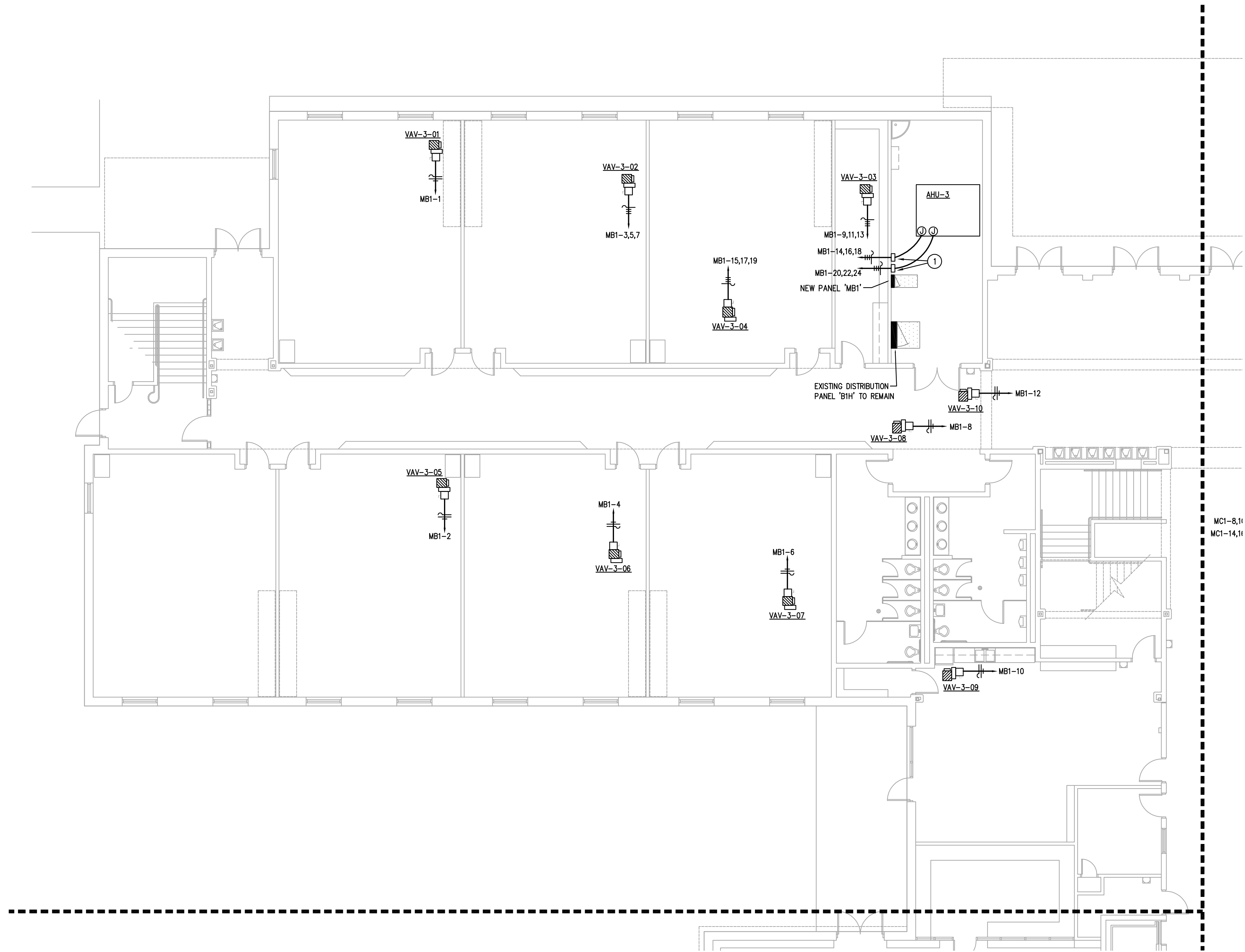
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GENERAL ELECTRICAL NOTES:

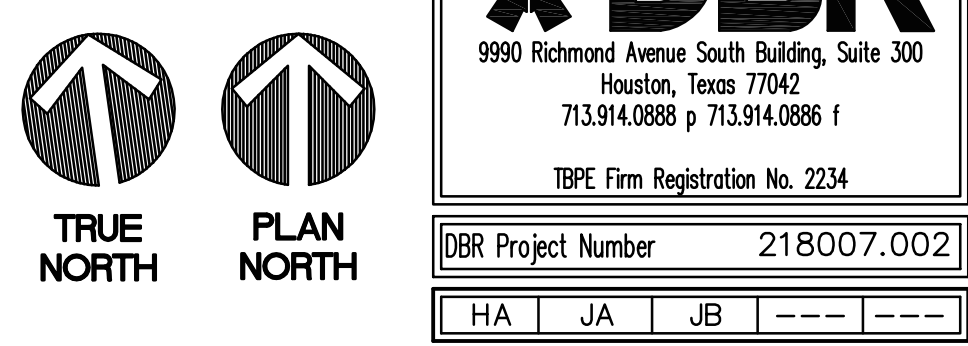
- A. CONTRACTOR SHALL VERIFY MECHANICAL EQUIPMENT CONNECTION LOCATION WITH FURNISHED EQUIPMENT.
- B. CONTRACTOR SHALL PROVIDE HANDLE TIES MANUFACTURED BY THE SWITCH GEAR SUPPLIER ON ALL MULTI-WIRE CIRCUITS TO MEET THE REQUIREMENTS OF ARTICLE 210.4(B) OF THE 2014 NEC. AT THE CONTRACTOR'S OPTION, TWO AND THREE POLE BREAKERS MAY BE USED.
- C. ALL VAV BOXES ARE SUPPLIED WITH INTEGRAL DISCONNECT SWITCH. VERIFY EXACT LOCATION AND REQUIREMENTS WITH MECHANICAL.
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① LEVEL 1 ELECTRICAL POWER PLAN - B
1/8" = 1'-0"

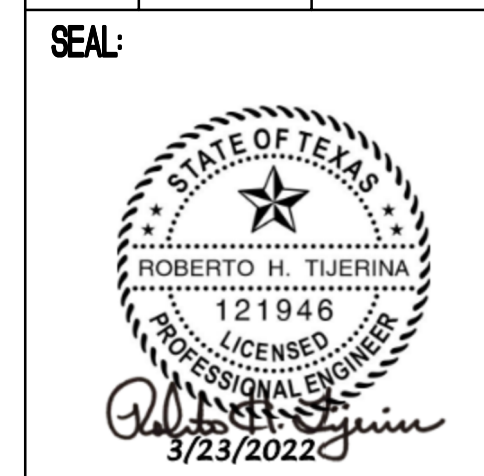


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PLAN NORTH

DBR
9990 Richmond Avenue, South Building, Suite 300
Houston, Texas 77042
713.914.0888 p 713.914.0886 f
TBPE Firm Registration No. 2234
DBR Project Number 218007.002

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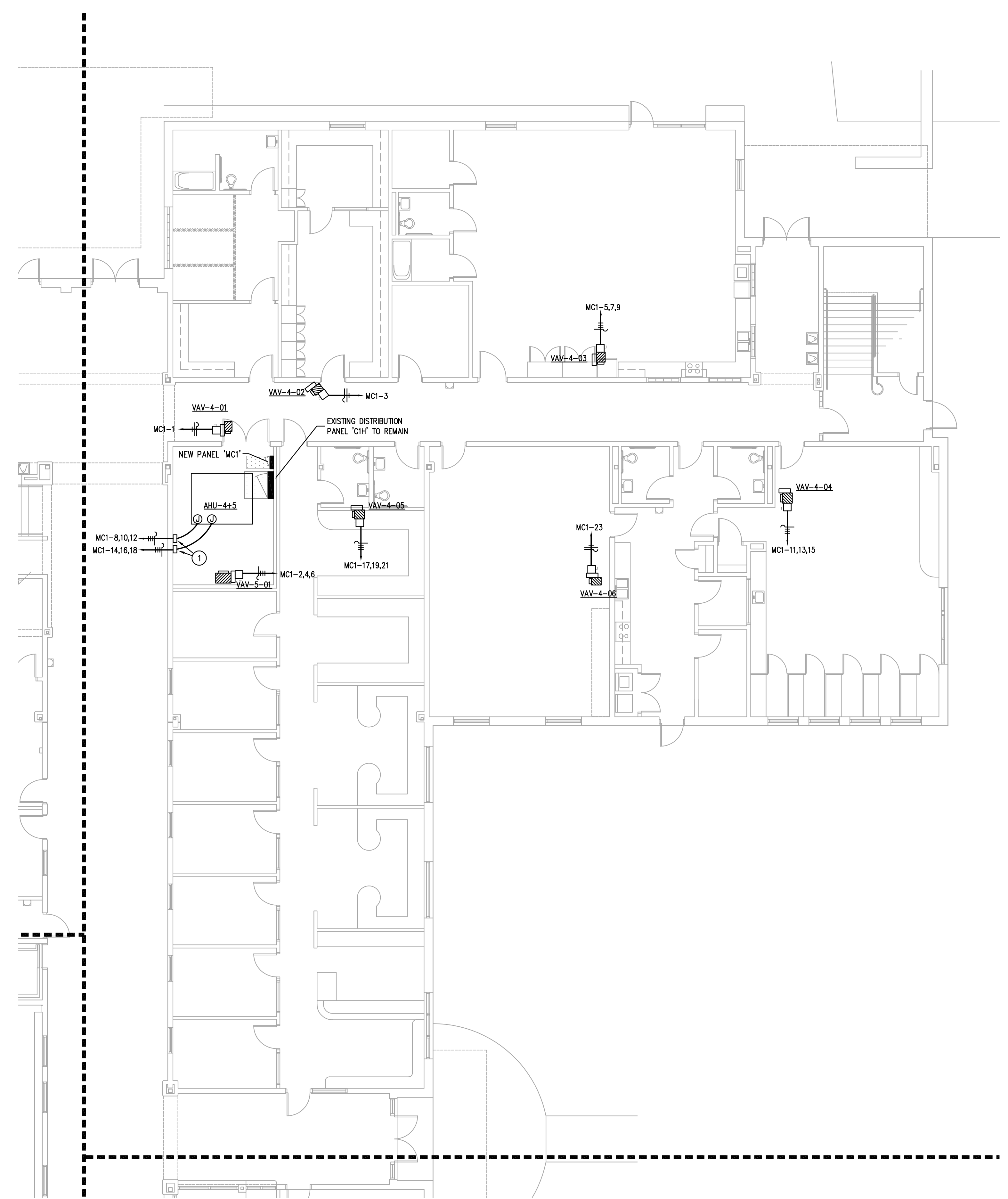


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- ② DISCONNECT SWITCH PROVIDED WITH EQUIPMENT. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH MECHANICAL.



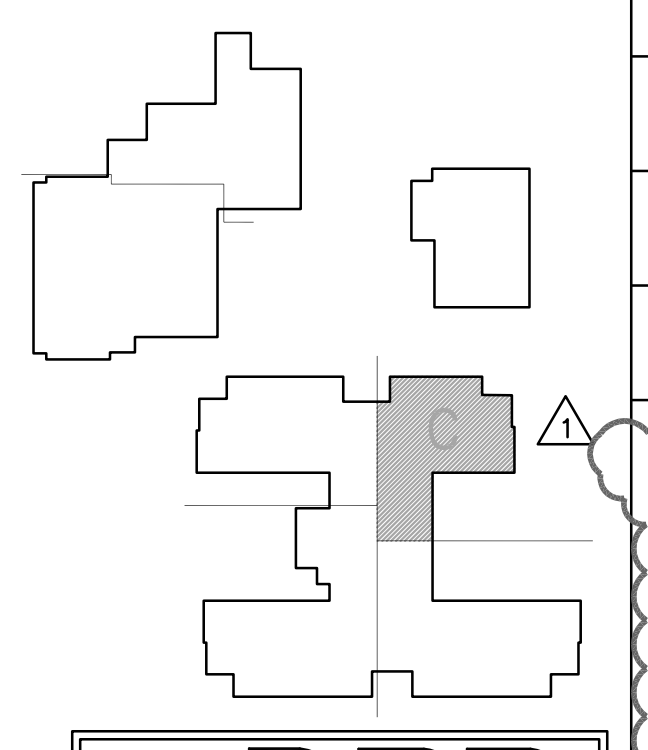

1 LEVEL 1 ELECTRICAL POWER PLAN - C
EP2.11C 1/8" = 1'-0"

EDINBURG CONSOLIDATED INDEPENDENT SCHOOL DISTRICT
MEMORIAL MS - HVAC IMPROVEMENTS
3105 N DOOLITTLE RD, EDINBURG, TX 78542

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| CHECKED BY: | DBR |
| PROJECT NUMBER: | 218007.002 |
| SHEET TITLE: | LEVEL 1 ELECTRICAL POWER PLAN - C |

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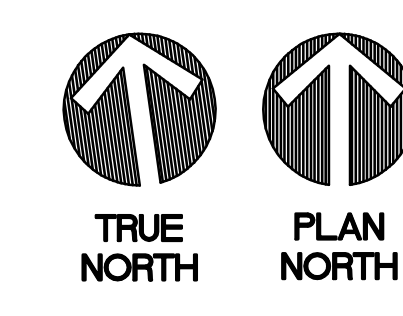
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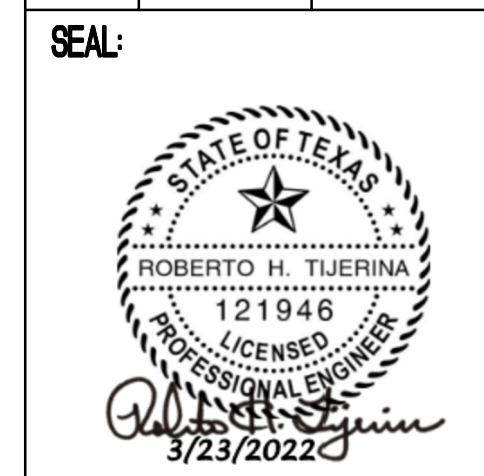
9990 Richmond Avenue, South Building, Suite 300
Houston, Texas 77042
713.914.0888 p 713.914.0886 f
TBPE Firm Registration No. 2234

DBR Project Number 218007.002

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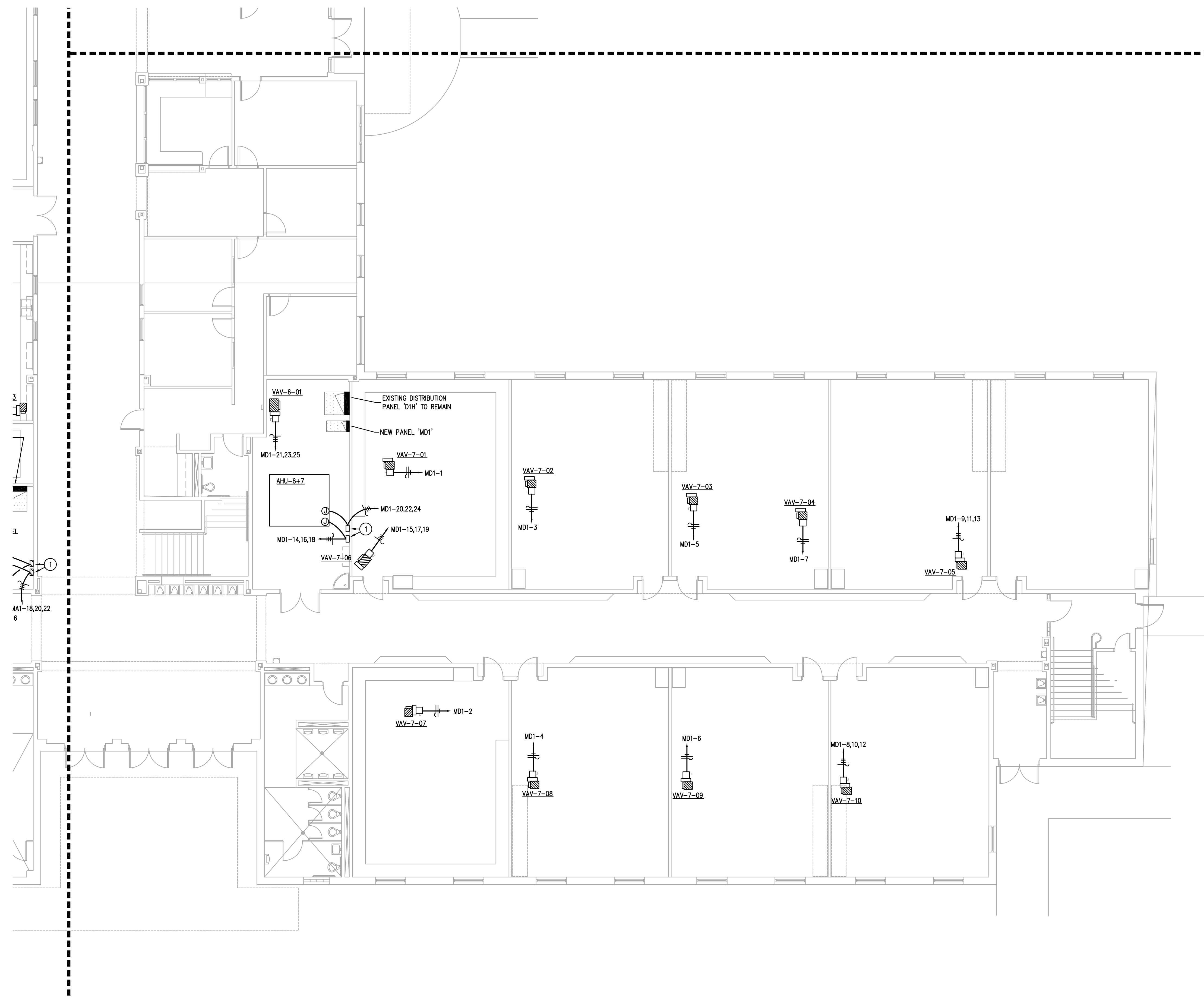


GENERAL ELECTRICAL NOTES:

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- B. CONTRACTOR SHALL PROVIDE HANDLE TIES MANUFACTURED BY THE SWITCH GEAR SUPPLIER ON ALL MULTI-WIRE CIRCUITS TO MEET THE REQUIREMENTS OF ARTICLE 210.4(B) OF THE 2014 NEC. AT THE CONTRACTOR'S OPTION, TWO AND THREE POLE BREAKERS MAY BE USED.
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1 LEVEL 1 ELECTRICAL POWER PLAN - D
 1/8" = 1'-0"

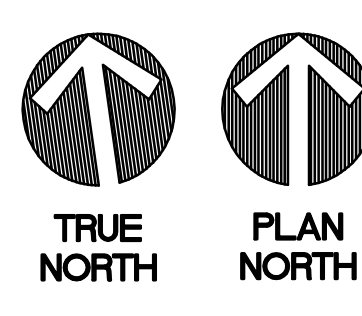
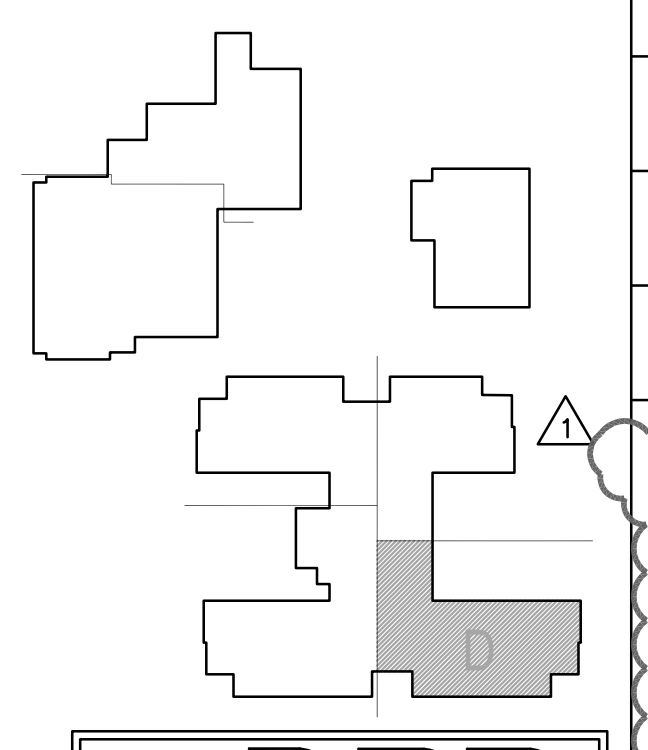
EDINBURG CONSOLIDATED INDEPENDENT SCHOOL DISTRICT
MEMORIAL MS - HVAC IMPROVEMENTS
 3105 N DOOLITTLE RD, EDINBURG, TX 78542

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| DATE: | 3/23/2022 |
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| CHECKED BY: | DBR |
| PROJECT NUMBER: | 218007.002 |
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**LEVEL 1
 ELECTRICAL
 POWER PLAN - D**

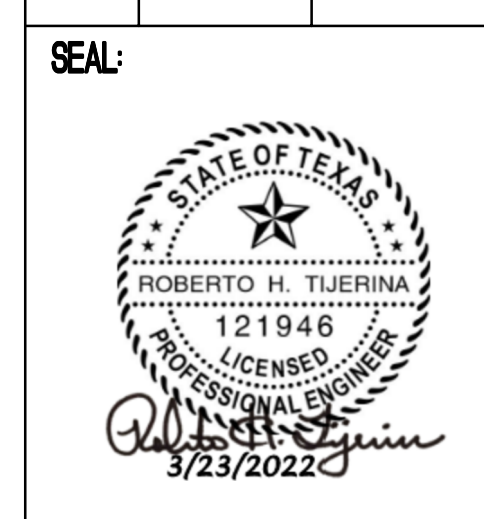
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| DBR Project Number | 218007.002 | | | |
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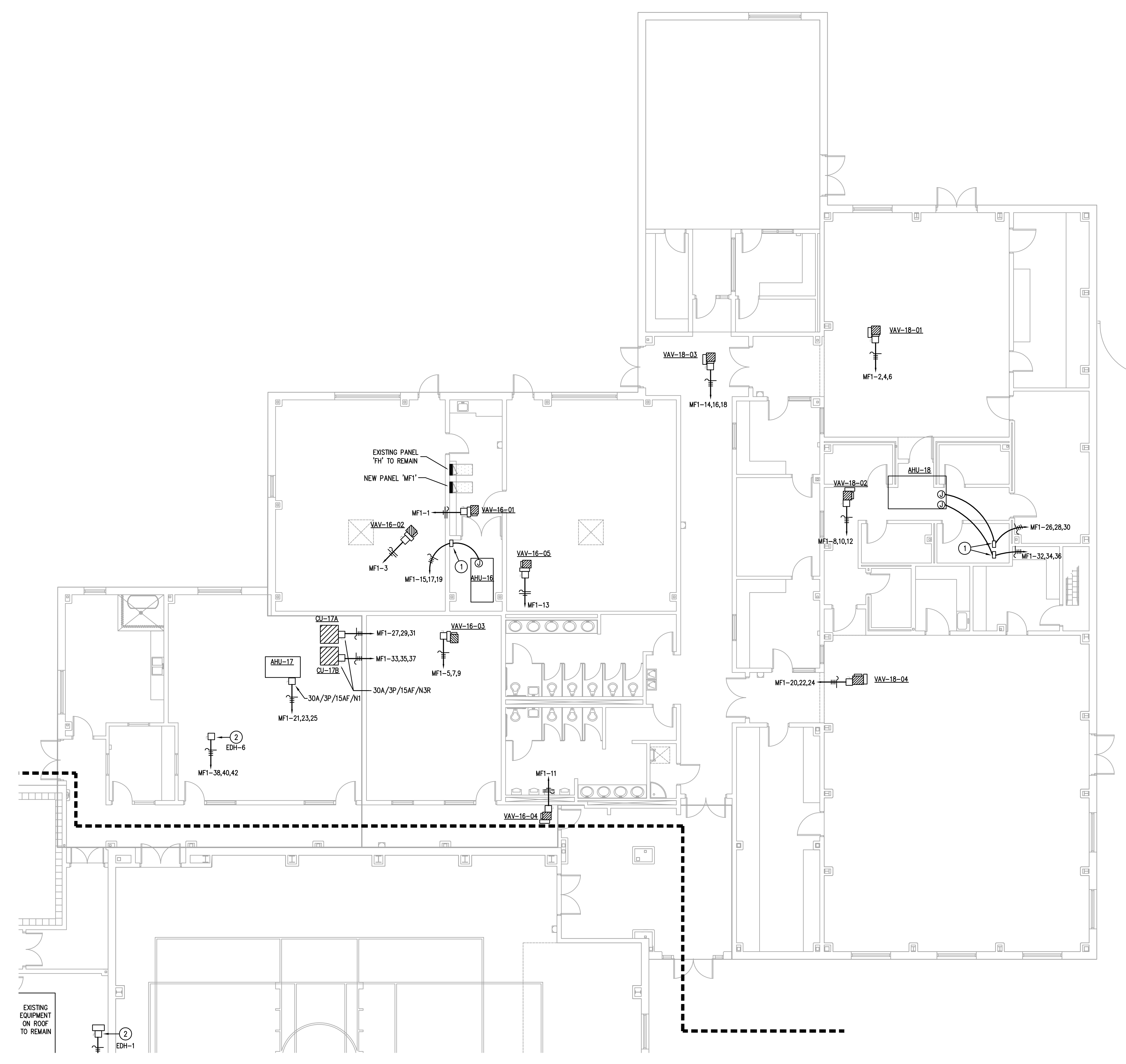


GENERAL ELECTRICAL NOTES:

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1 LEVEL 1 ELECTRICAL POWER PLAN - E
 EP2.11E 1/8" = 1'-0"

EDINBURG CONSOLIDATED INDEPENDENT SCHOOL DISTRICT
MEMORIAL MS - HVAC IMPROVEMENTS
 3105 N DOOLITTLE RD, EDINBURG, TX 78542

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LEVEL 1 ELECTRICAL POWER PLAN - E

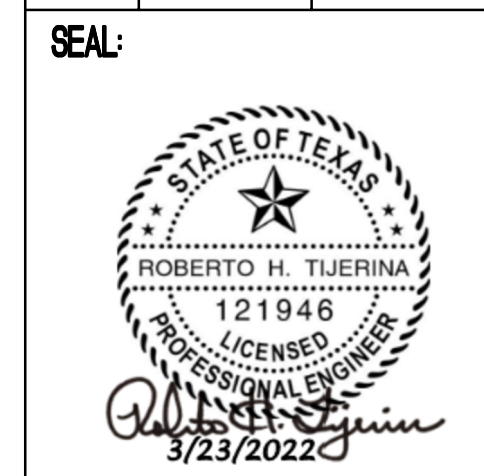
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 9990 Richmond Avenue, South Building, Suite 300
 Houston, Texas 77042
 713.914.0888 p 713.914.0886 f
 TBPE Firm Registration No. 2234
 DBR Project Number 218007.002

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EDINBURG CONSOLIDATED INDEPENDENT SCHOOL DISTRICT
MEMORIAL MS - HVAC IMPROVEMENTS
 3105 N DOOLITTLE RD, EDINBURG, TX 78542

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| DATE: | 3/23/2022 |
| DRAWN BY: | DBR |
| CHECKED BY: | DBR |
| PROJECT NUMBER: | 218007.002 |
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LEVEL 1
 ELECTRICAL
 POWER PLAN - F

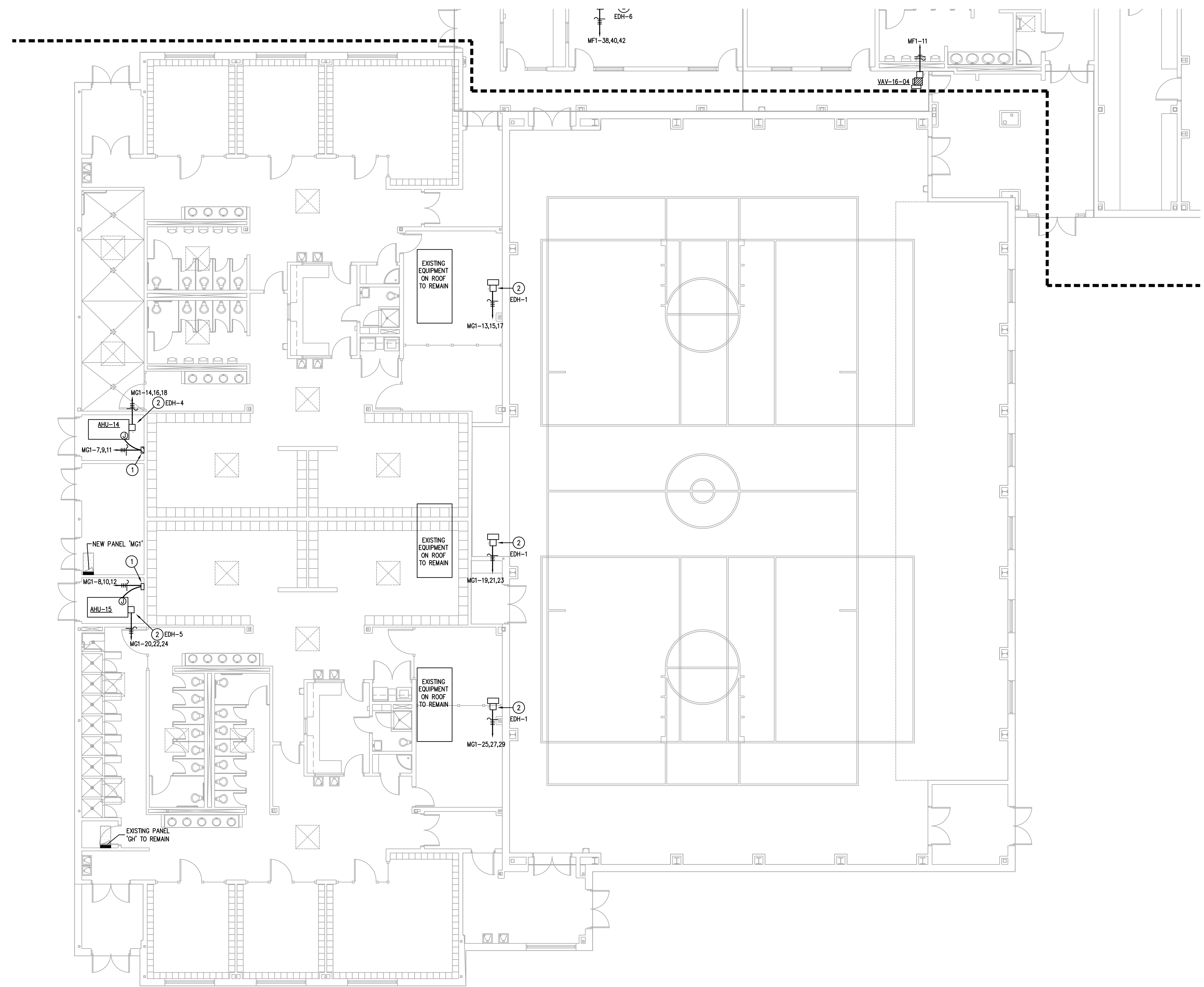
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GENERAL ELECTRICAL NOTES:

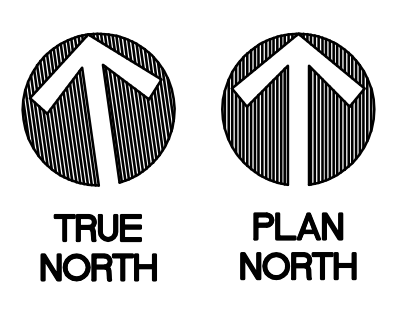
- CONTRACTOR SHALL VERIFY MECHANICAL EQUIPMENT CONNECTION LOCATION WITH FURNISHED EQUIPMENT.
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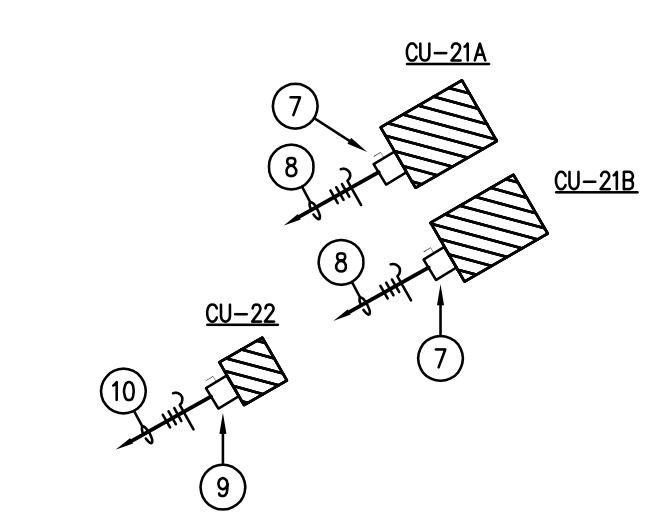
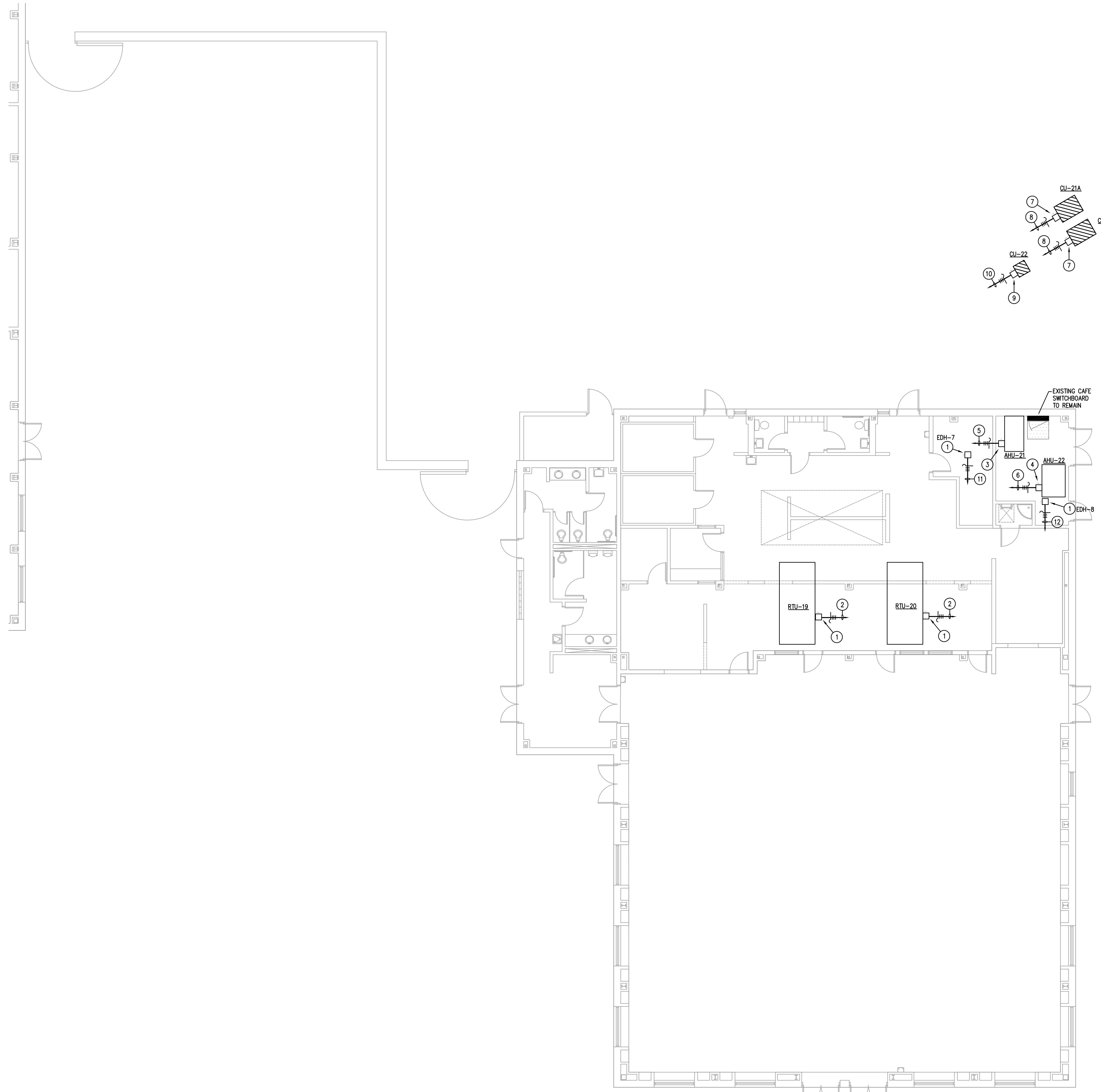
1 LEVEL 1 ELECTRICAL POWER PLAN - F
 EP2.11F 1/8" = 1'-0"



DBR
 9990 Richmond Avenue, South Building, Suite 300
 Houston, Texas 77042
 713.914.0888 p 713.914.0886 f
 TBPE Firm Registration No. 2234
 DBR Project Number 218007.002

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Plot Date: 03/23/2022 6:00 PM by: user: jrb - Saved: 3/23/2022 by: user: jrb
 C:\Users\jrb\OneDrive\Documents\218007.002 - EDISB - District Wide HVAC Improvements - MMS\Project Files\Drawings\EP2-218007-01.dwg



GENERAL ELECTRICAL NOTES:

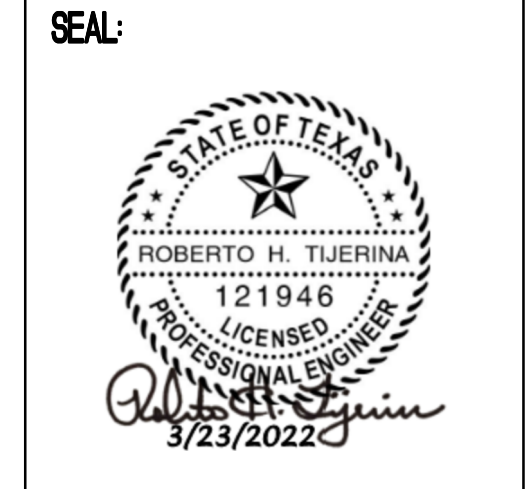
- A. CONTRACTOR SHALL VERIFY MECHANICAL EQUIPMENT CONNECTION LOCATION WITH FURNISHED EQUIPMENT.
- B. CONTRACTOR SHALL PROVIDE HANDLE TIES MANUFACTURED BY THE SWITCH GEAR SUPPLIER ON ALL MULTI-WIRE CIRCUITS TO MEET THE REQUIREMENTS OF ARTICLE 210.4(B) OF THE 2014 NEC. AT THE CONTRACTOR'S OPTION, TWO AND THREE POLE BREAKERS MAY BE USED.
- C. ALL VAV BOXES ARE SUPPLIED WITH INTEGRAL DISCONNECT SWITCH. VERIFY EXACT LOCATION AND REQUIREMENTS WITH MECHANICAL.
- D. CONTRACTOR SHALL NOTE THAT ALL MATERIALS BEING USED WITHIN THE CEILING PLENUM MUST BE PLENUM RATED.

ELECTRICAL KEYED NOTES

- ① INTERNALLY MOUNTED DISCONNECT SWITCH PROVIDED WITH EQUIPMENT. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH FURNISHED EQUIPMENT.
- ② 3/2" Ø, #6GND, 2" C TO EXISTING CAFETERIA SWITCHBOARD-"KP". PROVIDE NEW 175A/3P BREAKER IN SWITCHBOARD-"KP".
- ③ 30A/3P/25AF/N1 DISCONNECT SWITCH. PROVIDE CODE REQUIRED MOUNTING AND CLEARANCE. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH MECHANICAL.
- ④ 30A/3P/15AF/N1 DISCONNECT SWITCH. PROVIDE CODE REQUIRED MOUNTING AND CLEARANCE. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH MECHANICAL.
- ⑤ 3/10, #10GND, 3/4" C TO EXISTING CAFETERIA SWITCHBOARD-"KP". PROVIDE NEW 25A/3P BREAKER IN SWITCHBOARD-"KP".
- ⑥ 3/12, #12GND, 3/4" C TO EXISTING CAFETERIA SWITCHBOARD-"KP". PROVIDE NEW 15A/3P BREAKER IN SWITCHBOARD-"KP".
- ⑦ 60A/3P/60AF/N3R DISCONNECT SWITCH. PROVIDE CODE REQUIRED MOUNTING AND CLEARANCE. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH MECHANICAL.
- ⑧ 3/8, #10GND, 1" C TO EXISTING PANEL-"OK". PROVIDE NEW 60A/3P BREAKER IN EXISTING PANEL-"OK".
- ⑨ 60A/3P/35AF/N3R DISCONNECT SWITCH. PROVIDE CODE REQUIRED MOUNTING AND CLEARANCE. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH MECHANICAL.
- ⑩ 3/8, #10GND, 1" C TO EXISTING PANEL-"OK". PROVIDE NEW 35A/3P BREAKER IN EXISTING PANEL-"OK".
- ⑪ 3/8, #10GND, 1" C TO EXISTING SWITCHBOARD "KP". PROVIDE NEW 60A/3P BREAKER IN EXISTING SWITCHBOARD "KP".
- ⑫ 3/8, #10GND, 1" C TO EXISTING SWITCHBOARD "KP". PROVIDE NEW 50A/3P BREAKER IN EXISTING SWITCHBOARD "KP".

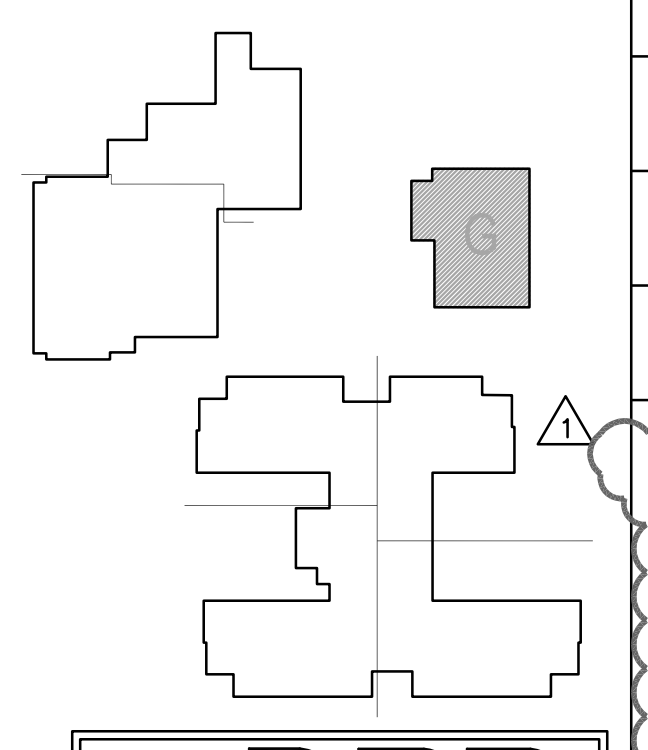


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EDINBURG CONSOLIDATED INDEPENDENT SCHOOL DISTRICT
MEMORIAL MS - HVAC IMPROVEMENTS
 3105 N DOOLITTLE RD, EDINBURG, TX 78542

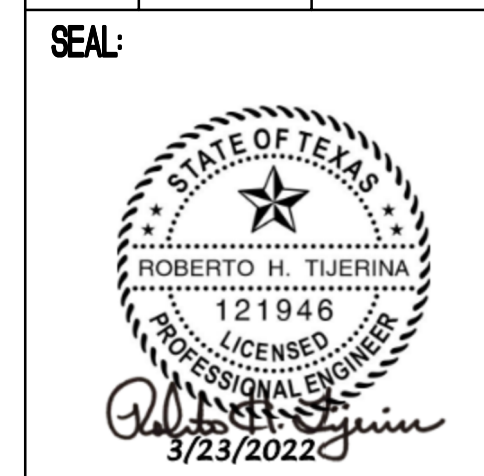
1 LEVEL 1 ELECTRICAL POWER PLAN - G
 EP2.12G 1/8" = 1'-0"



9990 Richmond Avenue, South Building, Suite 300
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 713.914.0888 p 713.914.0886 f
 TBPE Firm Registration No. 2234
 DBR Project Number 218007.002
 HA JA JB ---

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| DATE: | 3/23/2022 |
| DRAWN BY: | DBR |
| CHECKED BY: | DBR |
| PROJECT NUMBER: | 218007.002 |
| SHEET TITLE: | LEVEL 1 ELECTRICAL POWER PLAN - G |
| SHEET NUMBER: | EP2.12G |

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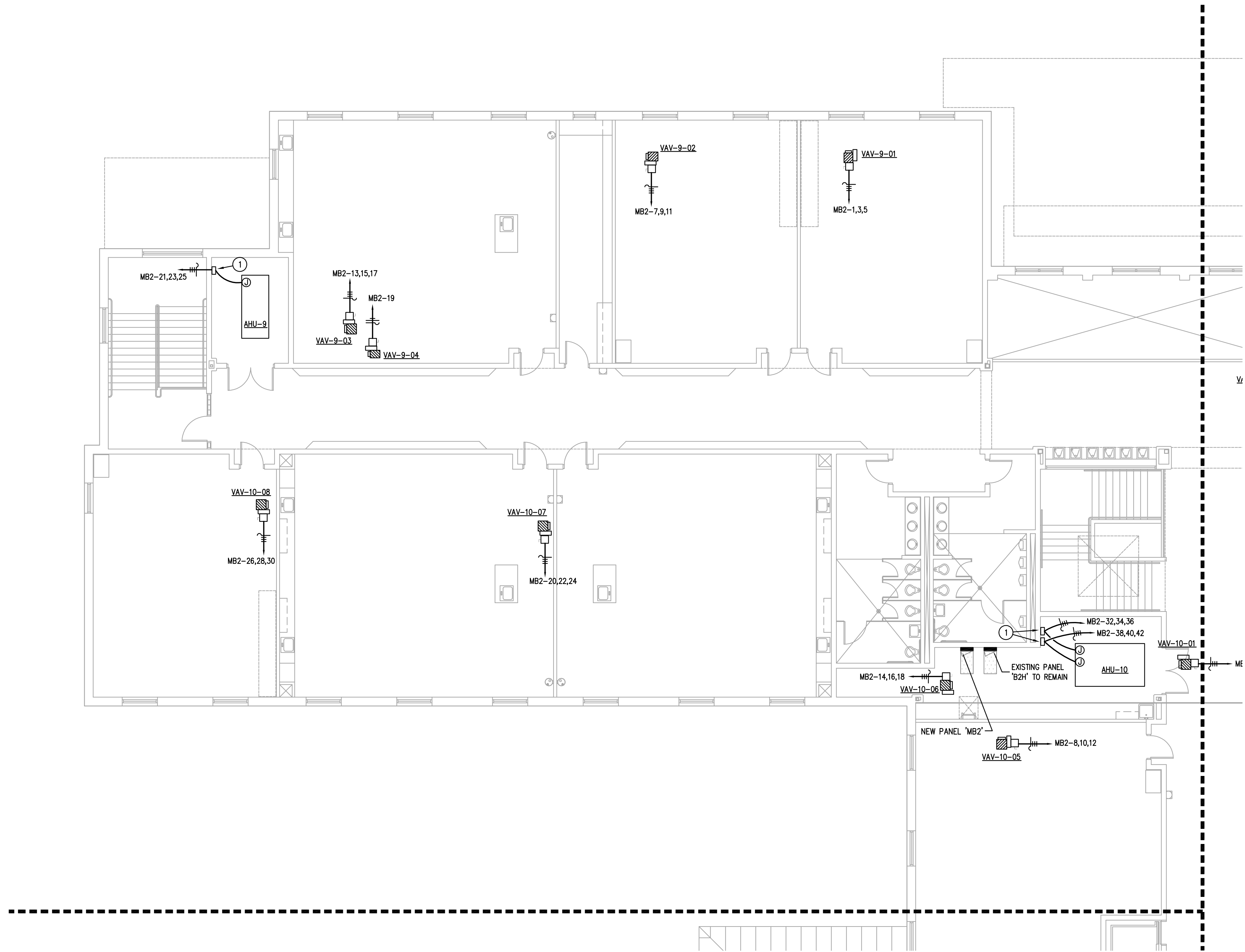


GENERAL ELECTRICAL NOTES:

- CONTRACTOR SHALL VERIFY MECHANICAL EQUIPMENT CONNECTION LOCATION WITH FURNISHED EQUIPMENT.
- CONTRACTOR SHALL PROVIDE HANDLE TIES MANUFACTURED BY THE SWITCH GEAR SUPPLIER ON ALL MULTI-WIRE CIRCUITS TO MEET THE REQUIREMENTS OF ARTICLE 210.4(B) OF THE 2014 NEC. AT THE CONTRACTOR'S OPTION, TWO AND THREE POLE BREAKERS MAY BE USED.
- ALL VAV BOXES ARE SUPPLIED WITH INTEGRAL DISCONNECT SWITCH. VERIFY EXACT LOCATION AND REQUIREMENTS WITH MECHANICAL.
- CONTRACTOR SHALL NOTE THAT ALL MATERIALS BEING USED WITHIN THE CEILING PLENUM MUST BE PLENUM RATED.

ELECTRICAL KEYED NOTES

- VFD, VERIFY EXACT LOCATION AND REQUIREMENTS WITH MECHANICAL. VFD SHALL BE PROVIDED AND INSTALLED BY MECHANICAL. WIRED BY ELECTRICAL. VFD SHALL SERVE AS DISCONNECTING MEANS.
- DISCONNECT SWITCH PROVIDED WITH EQUIPMENT. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH MECHANICAL.



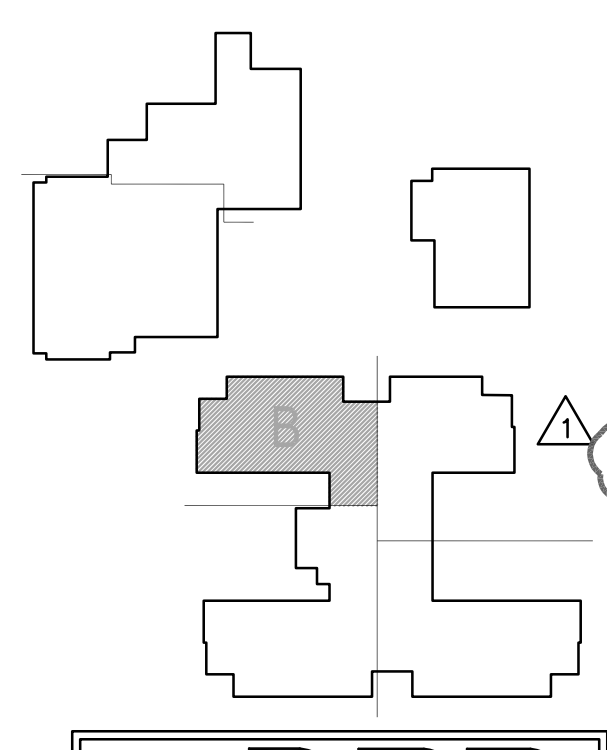
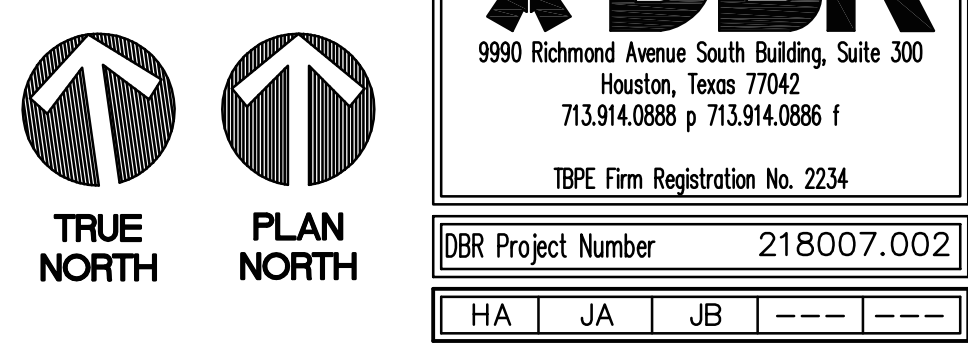
1 LEVEL 2 ELECTRICAL POWER PLAN - B
EP2.21B 1/8" = 1'-0"

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3105 N DOOLITTLE RD, EDINBURG, TX 78542

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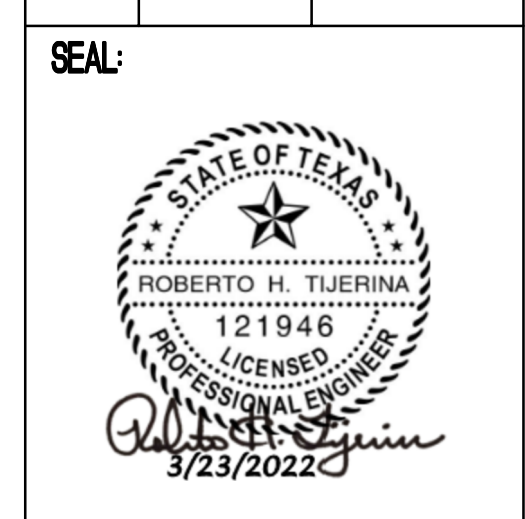
EP2.21B

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TBPE Firm Registration No. 2234
DBR Project Number 218007.002

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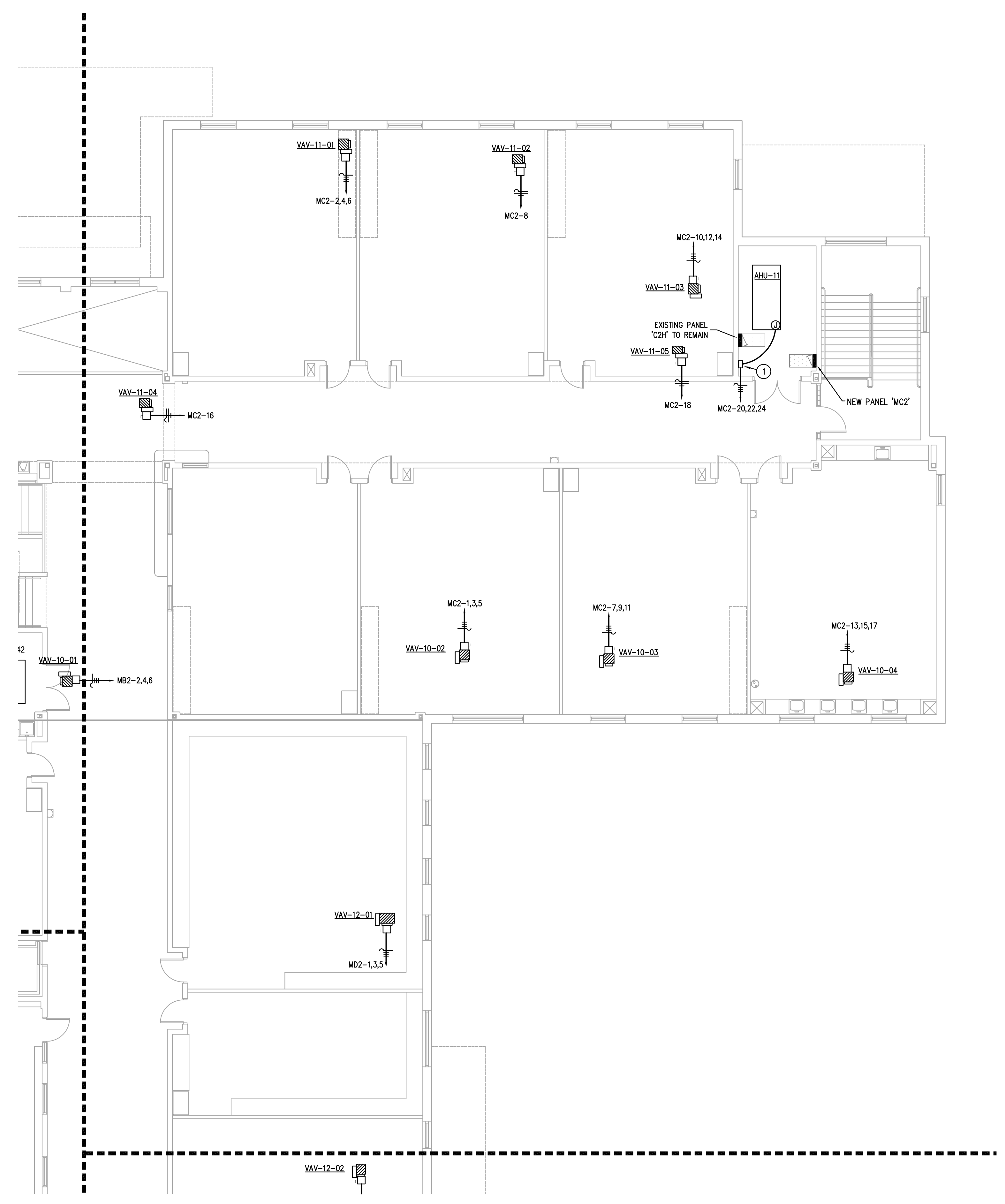
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| SHEET TITLE: | LEVEL 2 ELECTRICAL POWER PLAN - C |
| SHEET NUMBER: | EP2.21C |

GENERAL ELECTRICAL NOTES:

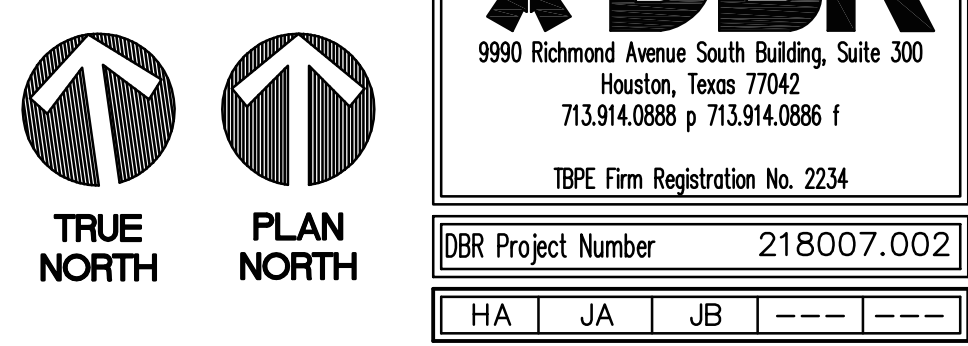
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ELECTRICAL KEYED NOTES

- ① VFD, VERIFY EXACT LOCATION AND REQUIREMENTS WITH MECHANICAL. VFD SHALL BE PROVIDED AND INSTALLED BY MECHANICAL, WIRED BY ELECTRICAL. VFD SHALL SERVE AS DISCONNECTING MEANS.
- ② DISCONNECT SWITCH PROVIDED WITH EQUIPMENT. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH MECHANICAL.



① LEVEL 2 ELECTRICAL POWER PLAN - C
EP2.21C 1/8" = 1'-0"

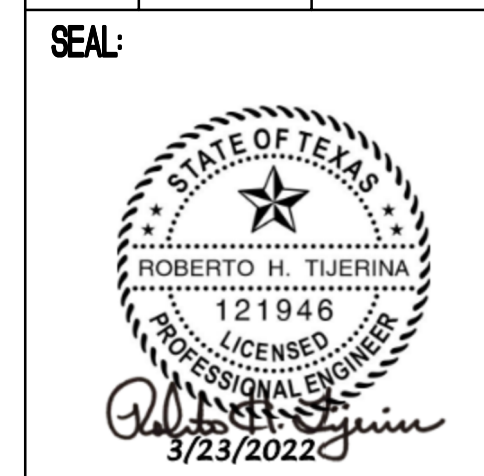


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PLAN NORTH

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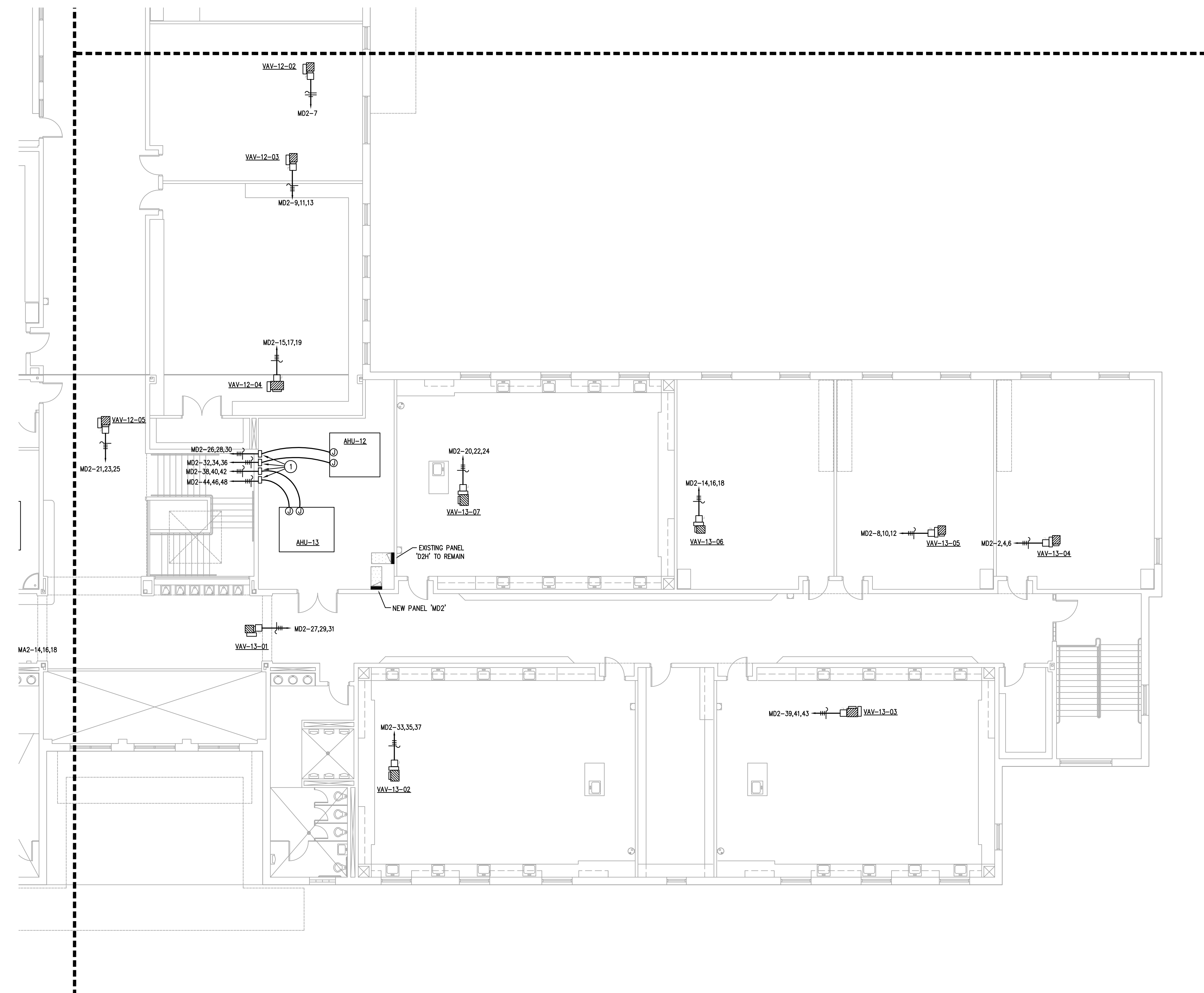


GENERAL ELECTRICAL NOTES:

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- ② DISCONNECT SWITCH PROVIDED WITH EQUIPMENT. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH MECHANICAL.



1 LEVEL 2 ELECTRICAL POWER PLAN - D
EP2.21D 1/8" = 1'-0"

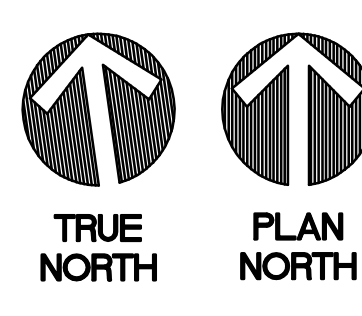
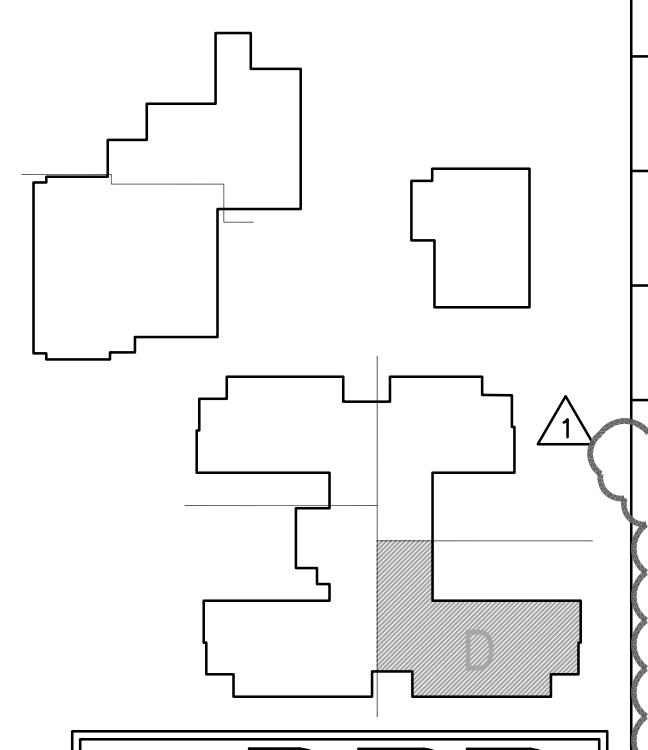
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MEMORIAL MS - HVAC IMPROVEMENTS
3105 N DOOLITTLE RD, EDINBURG, TX 78542

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| CHECKED BY: | DBR |
| PROJECT NUMBER: | 218007.002 |
| SHEET TITLE: | |

**LEVEL 2
ELECTRICAL
POWER PLAN - D**

SHEET NUMBER:

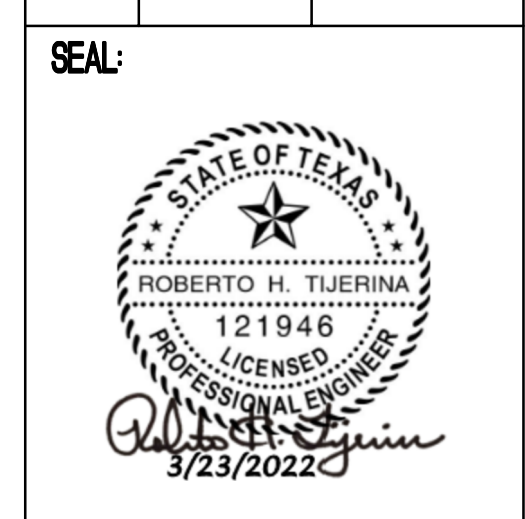
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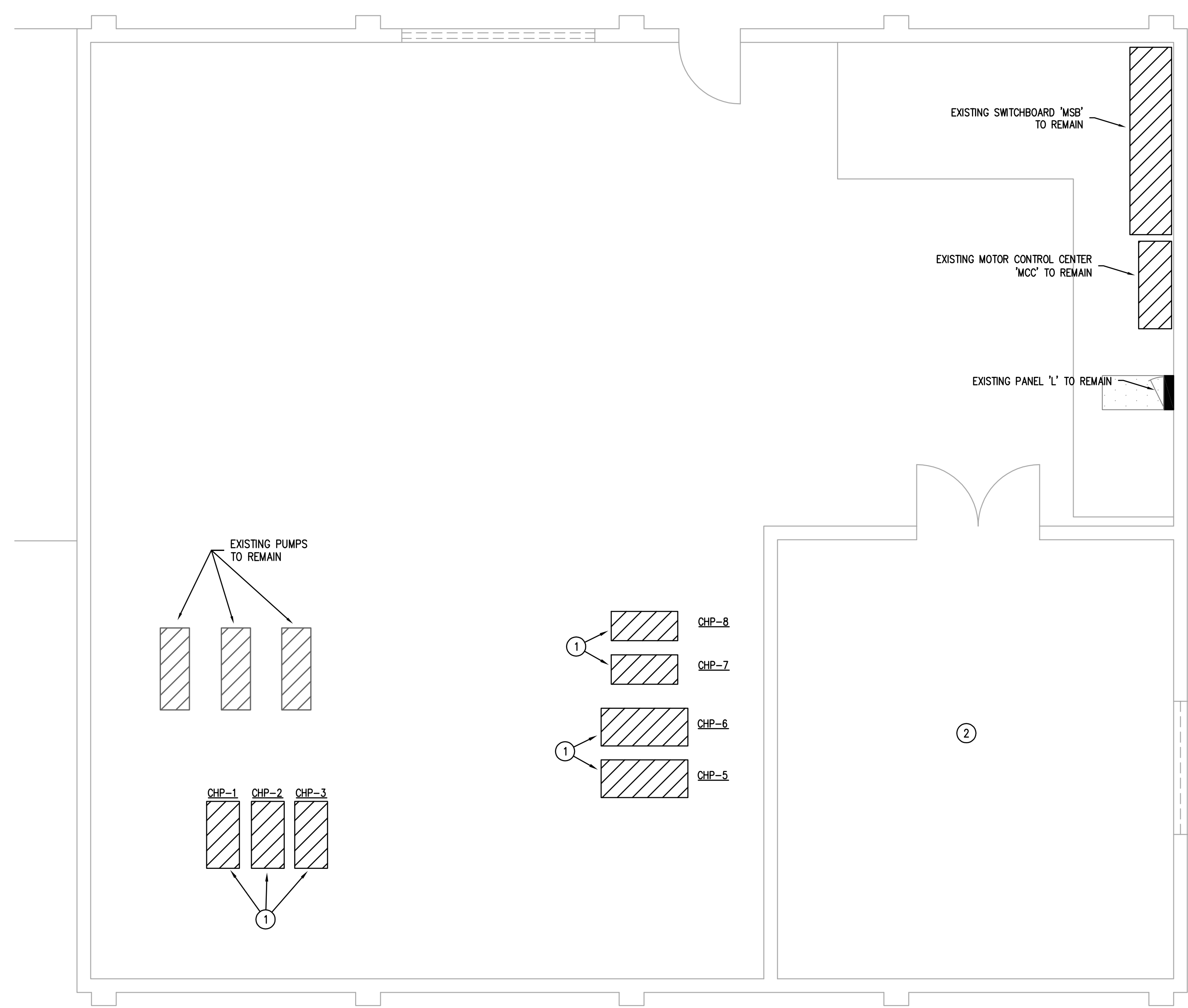


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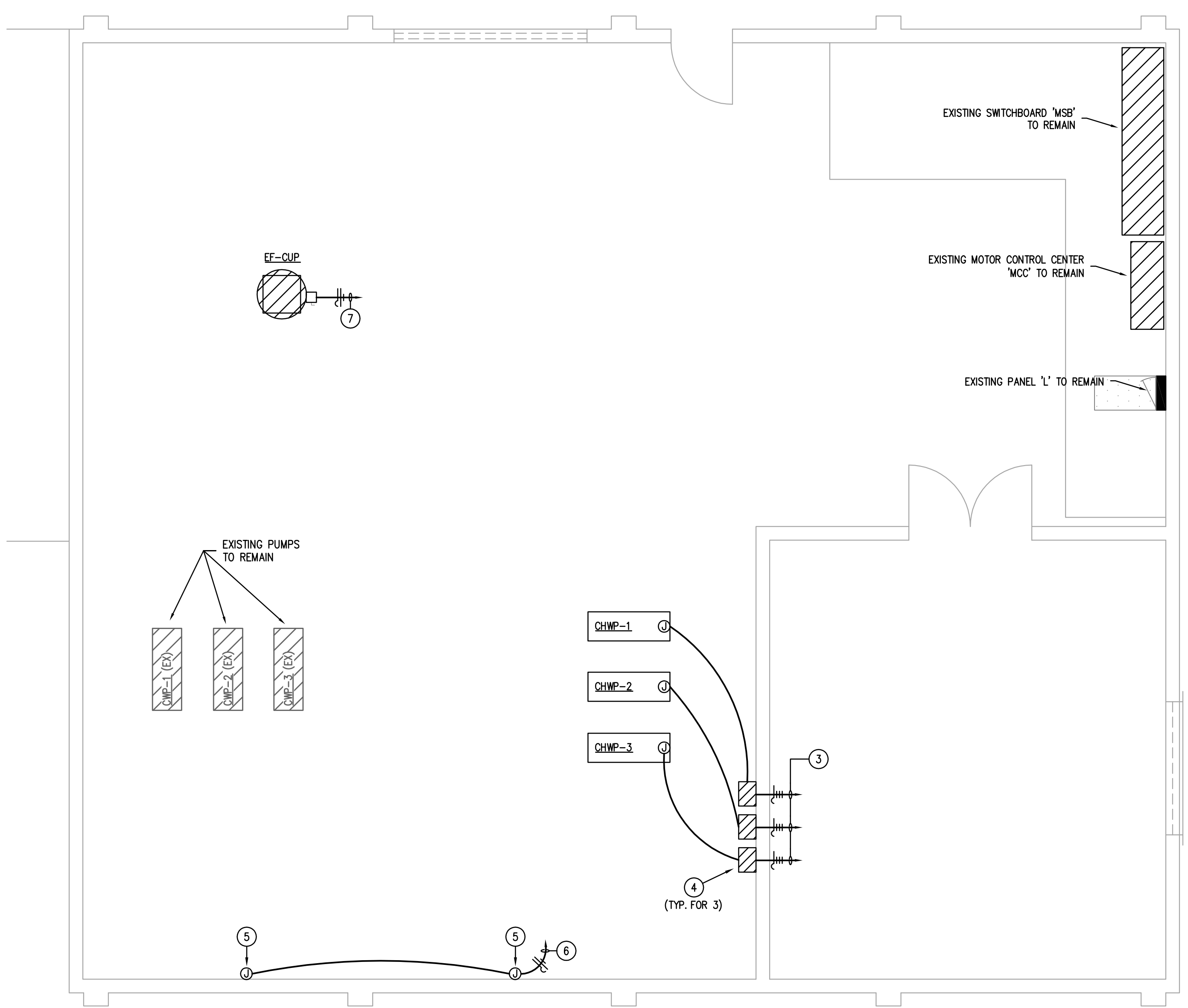
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| CHECKED BY: | DBR |
| PROJECT NUMBER: | 218007.002 |
| SHEET TITLE: | ELECTRICAL ENLARGED POWER PLANS |
| SHEET NUMBER: | E3.01 |

ELECTRICAL KEYED NOTES

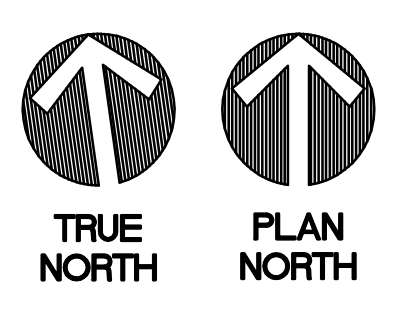
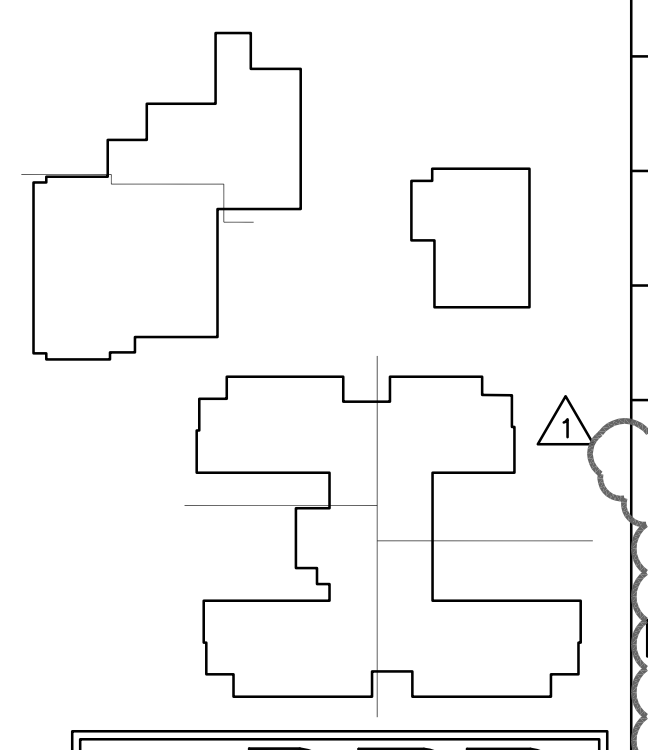
- ① CONTRACTOR SHALL DISCONNECT AND REMOVE ALL ELECTRICAL ASSOCIATED WITH EXISTING EQUIPMENT TO BE REMOVED. DISCONNECT AND REMOVE EXISTING CONDUIT AND WIRE BACK TO SOURCE.
- ② CONTRACTOR SHALL DISCONNECT AND REMOVE ALL ELECTRICAL ASSOCIATED WITH EXISTING BOILER EQUIPMENT TO BE REMOVED. DISCONNECT AND REMOVE ALL EXISTING CONDUIT AND WIRE.
- ③ HOMERUN TO MAIN SWITCHBOARD 'MSB'. SEE ONE-LINE DIAGRAM FOR CIRCUIT INFORMATION.
- ④ VFD PROVIDED AND INSTALLED BY MECHANICAL. WIRED BY ELECTRICAL. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH MECHANICAL CONTRACTOR.
- ⑤ MOTORIZED DAMPER. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH MECHANICAL CONTRACTOR.
- ⑥ 2#12, #12G, 3/4" TO PANEL 'L'. PROVIDE 20A/1P BREAKER.
- ⑦ 2#10, #10G, 3/4" TO PANEL 'L'. PROVIDE 25A/1P BREAKER.



① **CENTRAL PLANT ENLARGED DEMOLITION POWER PLAN**
 E3.01 1/4" = 1'-0"



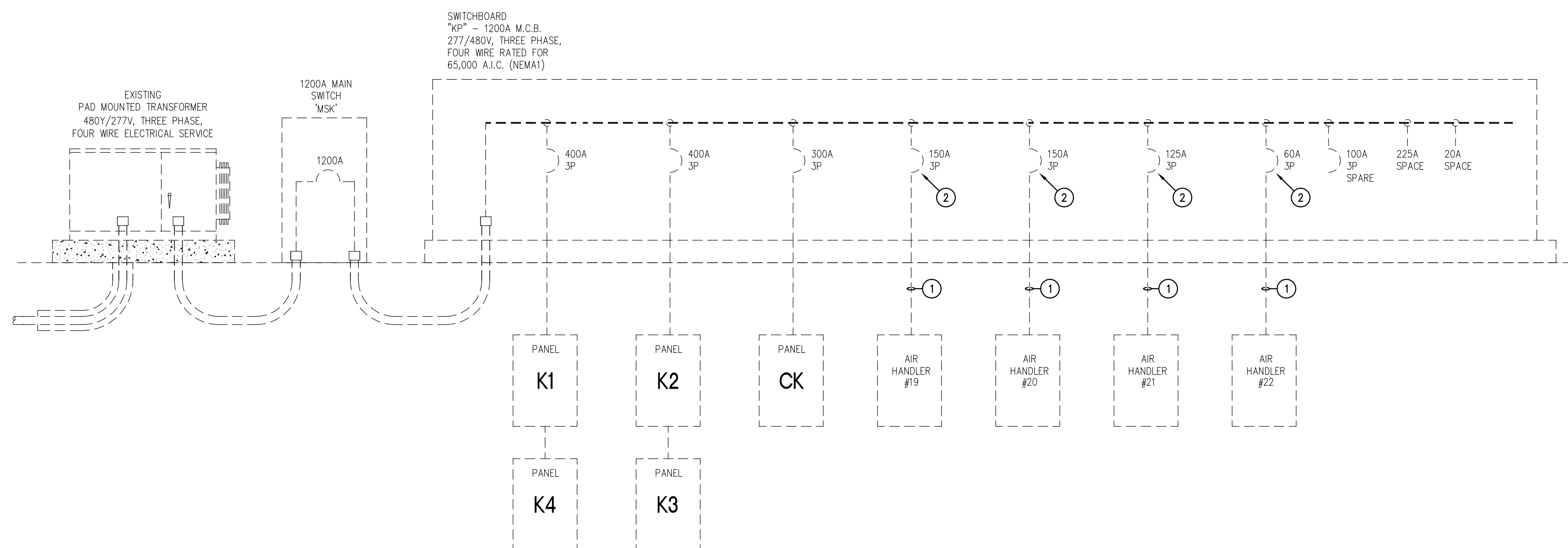
② **CENTRAL PLANT ENLARGED POWER PLAN**
 E3.01 1/4" = 1'-0"



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ONE-LINE GENERAL NOTES:

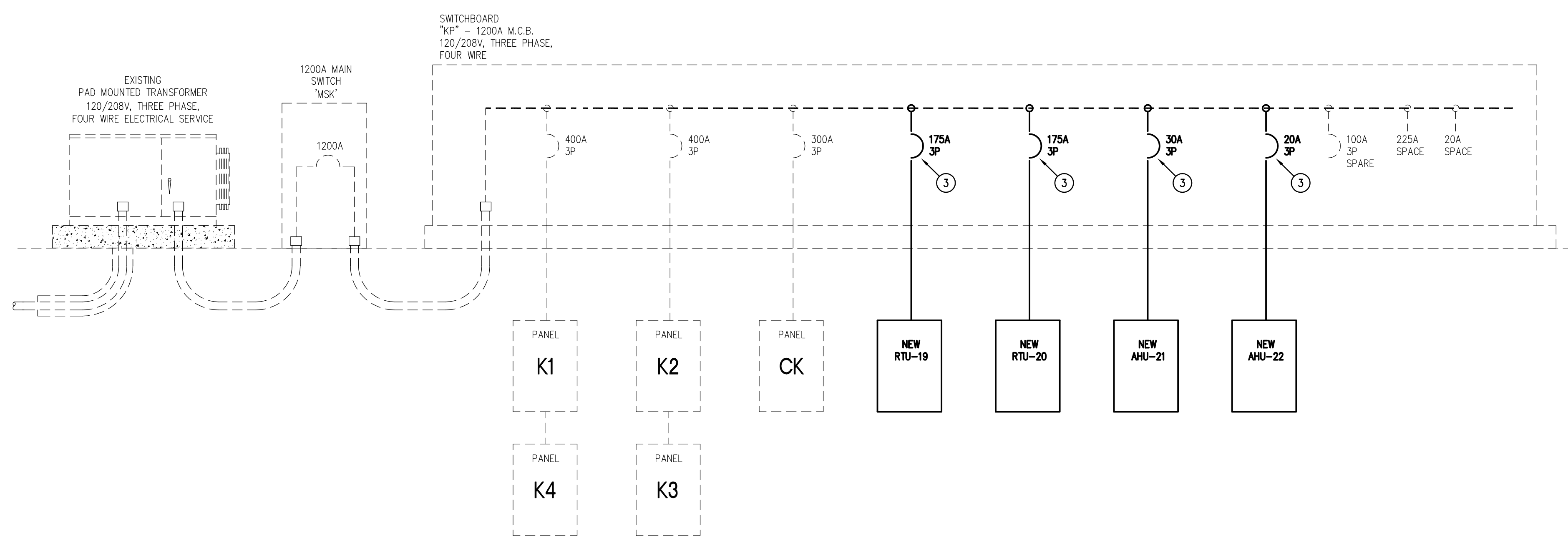
- DASHED ITEMS ARE EXISTING TO REMAIN, UNLESS NOTED OTHERWISE.
- SOLID LINES ARE NEW WORK.
- ALL CONDUCTORS SHALL BE COPPER.
- CONTRACTOR SHALL INSTALL FEEDERS BASED ON THE OVERCURRENT DEVICE RATING UNLESS OTHERWISE NOTED. CONTRACTOR SHALL REFER TO THE FEEDER SCHEDULE TO OBTAIN AND INSTALL THE FEEDERS REQUIRED.
- SERVICE EQUIPMENT IN OTHER THAN CHILLING UNITS SHALL BE LEGIBLY MARKED IN THE FIELD WITH THE MAXIMUM AVAILABLE FAULT CURRENT AT THE TIME OF INSTALLATION AND CALCULATION. THE LABEL SHALL BE 2" X 3" IN SIZE AND SHALL BE BLUE LETTERING ON A CONTRASTING BACKGROUND. THIS LABEL SHALL ALSO INCLUDE THE DATE OF THE CALCULATION.
- A PERMANENTLY AFFIXED LABEL SHALL BE APPLIED WITH THE AVAILABLE FAULT CURRENT AT THE TIME OF INSTALLATION AND CALCULATION. THE LABEL SHALL BE 2" X 3" IN SIZE AND SHALL BE BLUE LETTERING ON A CONTRASTING BACKGROUND. THIS LABEL SHALL ALSO INCLUDE THE DATE OF THE CALCULATION.
- NEW BREAKERS SHALL BE OF THE SAME MANUFACTURER AS THE EXISTING SWITCHBOARD OR PANEL IN WHICH THEY ARE INSTALLED.

ONE-LINE KEYED NOTES:

- EXISTING CONDUIT AND WIRE TO BE DISCONNECTED AND REMOVED.
- EXISTING BREAKER TO BE REPLACED.
- PROVIDE NEW BREAKER, SIZE AS SHOWN.

1 ONE-LINE DIAGRAM - SWITCHBOARD 'KP' - EXISTING CONDITIONS

E4.02 N.T.S.



2 ONE-LINE DIAGRAM - SWITCHBOARD 'KP' - NEW CONDITIONS

E4.02 N.T.S.

SERVICE LATERAL AND FEEDER SCHEDULE (COPPER ONLY)

| AMPERAGE | SETS | CONDUCTOR SIZE | CONDUIT (INCHES) |
|----------|--------------------|--|------------------|
| 30A | 1 | 4#10, 1#10 G. | 3/4" |
| 40A | 1 | 4#8, 1#10 G. | 1" |
| 50A | 1 | 4#8, 1#10 G. | 1" |
| 60A | 1 | 4#6, 1#10 G. | 1" |
| 70A | 1 | 4#4, 1#8 G. | 1 1/4" |
| 80A | 1 | 4#4, 1#8 G. | 1 1/4" |
| 90A | 1 | 4#3, 1#8 G. | 1 1/4" |
| 100A | 1 | 4#3, 1#8 G. | 1 1/4" |
| 125A | 1 | 4#1, 1#6 G. | 1 1/2" |
| 150A | 1 | 4#1/0, 1#6 G. | 1 1/2" |
| 175A | 1 | 4#2/0, 1#6 G. | 2" |
| 200A | 1 | 4#3/0, 1#6 G. | 2" |
| 225A | 1 | 4#4/0, 1#4 G. | 2 1/2" |
| 250A | 1 | 4#250KCML, 1#4 G. | 2 1/2" |
| 300A | 1 | 4#350KCML, 1#4 G. | 3" |
| 350A | 1 | 4#500KCML, 1#3 G. | 3 1/2" |
| 400A | 1 | 4#600KCML, 1#3 G. | 4" |
| 450A | 2 | 4#4/0, 1#2 G. | 2 1/2" |
| 500A | 2 | 4#250KCML, 1#2G. | 2 1/2" |
| 600A | 2 | 4#350KCML, 1#1G. | 3" |
| 700A | 2 | 4#500KCML, 1#1/0G. | 4" |
| 800A | 2 | 4#600KCML, 1#1/0G. | 4" |
| 1000A | 3 | 4#500KCML, 1#2/0G. | 4" |
| 1200A | 4 | 4#350KCML, 1#3/0G. | 5" |
| 1600A | 4(600) OR 5(500) | 4#600KCML, 1#4/0G. OR 4#500KCML, 1#4/0G. | 4" |
| 2000A | 5(600) OR 6(500) | 4#600KCML, 1#250KCML G. OR 4#500KCML, 1#250KCML G. | 4" |
| 2500A | 6(600) OR 7(500) | 4#600KCML, 1#350KCML G. OR 4#500KCML, 1#350KCML G. | 4" |
| 3000A | 8 | 4#500KCML, 1#400KCML G. | 4" |
| 3500A | 9(600) OR 10(500) | 4#600KCML, 1#500KCML G. OR 4#500KCML, 1#500KCML G. | 4" |
| 4000A | 10(600) OR 11(500) | 4#600KCML, 1#500KCML G. OR 4#500KCML, 1#500KCML G. | 4" |
| 5000A | 12(600) OR 14(500) | 4#600KCML, 1#700KCML G. OR 4#500KCML, 1#700KCML G. | 4" |

- ELECTRICAL CONTRACTOR SHALL PROVIDE THE NUMBER OF LUGS AND PROPER LUG SIZES TO ACCEPT CONDUCTOR SIZES SHOWN.
- DO NOT GROUND CONDUCTOR IN SERVICE LATERAL FROM POWER COMPANY TRANSFORMER.
- CONTRACTOR SHALL INCREASE FEEDERS IN SIZE TO COMPENSATE FOR VOLTAGE DROP. FEEDERS SHALL BE SIZED TO MAINTAIN A 2% OR LESS VOLTAGE DROP ON FEEDERS AND A 3% OR LESS VOLTAGE DROP ON BRANCH CIRCUITS.

EDINBURG CONSOLIDATED INDEPENDENT SCHOOL DISTRICT
MEMORIAL MS - HVAC IMPROVEMENTS
3105 N DOOLITTLE RD, EDINBURG, TX 78542

DATE:
3/23/2022
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218007.002
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ELECTRICAL ONE-LINE DIAGRAM

SHEET NUMBER:

E4.02



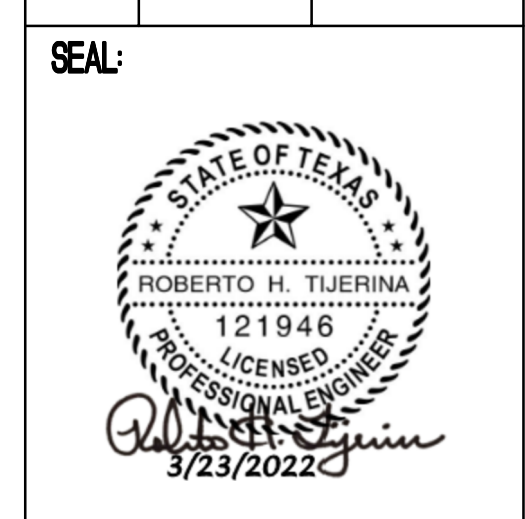
DBR Project Number 218007.002

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210.546.0200 v. 210.546.0201 f
9601 McAllister Freeway, Suite 410
San Antonio, Texas 78216
TBPE Firm Registration No. 2234

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No. / DATE / DESCRIPTION
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MEMORIAL MS - HVAC IMPROVEMENTS
3105 N DOOLITTLE RD, EDINBURG, TX 78542

DATE:
3/23/2022
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CHECKED BY:
DBR
PROJECT NUMBER:
218007.002
SHEET TITLE:

ELECTRICAL SCHEDULES

SHEET NUMBER:

E5.02



DBR Project Number 218007.002

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| 85,000 AIC Rating | | | | | | | | | | | | | |
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| Panelboard MG1 | | | | | | | | | | | | | |
| Existing | | | | | | | | | | | | | |
| X New | | | | | | | | | | | | | |
| 277/480 Volt, 3-Phase, 4-Wire | | | MCB 0 AMP MCB | | | X Single | | | Mounting | | | | |
| 1 Section | | | X MLO 400 AMP BUS (Copper) | | | Double | | | X Surface | | | | |
| 1-Nema Rating | | | | | | Feed - Thru | | | Flush | | | | |
| Notes | Load (VA) | Description | Type | Wire | CB | CKT # | CKT # | CB | Wire | Type | Description | Load (VA) | Notes |
| | | SPARE | | 12 | 20/3 | 3 B 4 | 30/3 | 10 | | | SPARE | | |
| | 997 | AHU-14 | F | 12 | 15/3 | 7 A 8 | 15/3 | 12 | F | | AHU-15 | 1634 | |
| | 12666 | EDH-1 | H | 6 | 60/3 | 15 B 16 | 60/3 | 6 | H | | EDH-4 | 12000 | |
| | 12666 | EDH-2 | H | 6 | 60/3 | 21 B 22 | 60/3 | 6 | H | | EDH-5 | 12000 | |
| | 12666 | EDH-3 | H | 6 | 60/3 | 27 B 28 | | | | | SPACE | | |
| | 116,985 | Subtotal | | | | | | | | | Subtotal | 76,902 | |
| N.E.C. (2011) | | Load Type | Conn. | Fct. | Diversity | N.E.C. (2011) | | Load Type | Conn. | Fct. | Diversity | | |
| 220.44 | (R) Recept. | 0 | 100% | 0 | 220.12 | (L) Lighting | 0 | 125% | 0 | | | | |
| 220.56 | (K) Kitchen | 0 | 100% | 0 | 220.12 | (EL) Ext. Ltg. | 0 | 125% | 0 | | | | |
| 220.60 | (C) Cooling | 0 | 0% | 0 | 620.14 | (E) Elevators | 0 | 100% | 0 | | | | |
| 220.60 | (H) Heating | 185,994 | 100% | 185,994 | | (WH) Water Ht. | 0 | 100% | 0 | | | | |
| 220.60 | (F) Fans | 7,893 | 100% | 7,893 | 220.5 | (MT) Lrg. Mot. | 0 | 125% | 0 | | | | |
| 630.11 | (W) Welders | 0 | 0 | 0 | | (SP) Sub Panel | 0 | 100% | 0 | | | | |
| | (M) Misc. | 0 | 100% | 0 | | | | | | | | | |
| Total Connected Load = | | | 193,887 VA = | 233.3 | AMPS | Location of Panel: | | | | | | | |
| Total Load (Diversified) = | | | 193,887 VA = | 233.3 | AMPS | | | | | | | | |

| 85,000 AIC Rating | | | | | | | | | | | | | |
|-------------------------------|-------------|-------------|----------------------------|--------|-----------|--------------------|-------|-----------|-----------|------|---------------------|-----------|-------|
| Panelboard MF1 | | | | | | | | | | | | | |
| Existing | | | | | | | | | | | | | |
| X New | | | | | | | | | | | | | |
| 277/480 Volt, 3-Phase, 4-Wire | | | MCB 0 AMP MCB | | | X Single | | | Mounting | | | | |
| 1 Section | | | X MLO 225 AMP BUS (Copper) | | | Double | | | X Surface | | | | |
| 1-Nema Rating | | | | | | Feed - Thru | | | Flush | | | | |
| Notes | Load (VA) | Description | Type | Wire | CB | CKT # | CKT # | CB | Wire | Type | Description | Load (VA) | Notes |
| | 5000 | VAV-16-01 | H | 10 | 25/1 | 1 A 2 | | | H | | | 2333 | |
| | 5000 | VAV-16-02 | H | 10 | 25/1 | 3 B 4 | 20/3 | 12 | H | | VAV-18-01 | 2333 | |
| | 2000 | VAV-16-03 | H | 12 | 20/3 | 7 A 8 | | | H | | | 3000 | |
| | 2000 | VAV-16-04 | H | 10 | 25/1 | 9 B 10 | 20/3 | 12 | H | | VAV-18-02 | 3000 | |
| | 5000 | VAV-16-05 | H | 10 | 25/1 | 11 C 12 | | | H | | | 3000 | |
| | 1634 | AHU-16 | F | 12 | 15/3 | 13 A 14 | 20/3 | 12 | H | | VAV-18-03 | 2666 | |
| | 1634 | AHU-17 | F | 12 | 15/3 | 15 B 16 | 20/3 | 12 | H | | | 2666 | |
| | 1108 | AHU-18 | F | 12 | 15/3 | 17 C 18 | | | H | | | 2666 | |
| | 1108 | AHU-19 | F | 12 | 15/3 | 19 A 20 | 20/3 | 12 | H | | VAV-18-04 | 4000 | |
| | 2521 | ACCU-17A | C | 12 | 15/3 | 21 B 22 | 20/3 | 12 | H | | | 4000 | |
| | 2521 | ACCU-17B | C | 12 | 15/3 | 23 C 24 | | | H | | | 4000 | |
| | 2521 | ACCU-18 | C | 12 | 15/3 | 25 A 26 | 15/3 | 12 | F | | AHU-18 (CIRCUIT #1) | 1634 | |
| | 2521 | ACCU-19 | C | 12 | 15/3 | 27 B 28 | | | F | | | 1634 | |
| | 2521 | ACCU-20 | C | 12 | 15/3 | 29 C 30 | | | F | | AHU-18 (CIRCUIT #2) | 1634 | |
| | 2521 | ACCU-21 | C | 12 | 15/3 | 31 A 32 | | | F | | | 1634 | |
| | 2521 | ACCU-22 | C | 12 | 15/3 | 33 B 34 | 15/3 | 12 | F | | | 1634 | |
| | 2521 | ACCU-23 | C | 12 | 15/3 | 35 C 36 | | | F | | | 1634 | |
| | 2521 | ACCU-24 | C | 12 | 15/3 | 37 A 38 | | | F | | | 4000 | |
| | 2521 | ACCU-25 | C | 12 | 15/3 | 39 B 40 | 20/3 | 12 | | | EDH-6 | 4000 | |
| | 2521 | ACCU-26 | C | 12 | 15/3 | 41 C 42 | | | | | | 4000 | |
| | 49,352 | Subtotal | | | | | | | | | Subtotal | 57,801 | |
| N.E.C. (2011) | | Load Type | Conn. | Fct. | Diversity | N.E.C. (2011) | | Load Type | Conn. | Fct. | Diversity | | |
| 220.44 | (R) Recept. | 0 | 100% | 0 | 220.12 | (L) Lighting | 0 | 125% | 0 | | | | |
| 220.56 | (K) Kitchen | 0 | 100% | 0 | 220.12 | (EL) Ext. Ltg. | 0 | 125% | 0 | | | | |
| 220.60 | (C) Cooling | 15,126 | 0% | 0 | 620.14 | (E) Elevators | 0 | 100% | 0 | | | | |
| 220.60 | (H) Heating | 61,997 | 100% | 61,997 | | (WH) Water Ht. | 0 | 100% | 0 | | | | |
| 220.60 | (F) Fans | 18,030 | 100% | 18,030 | 220.5 | (MT) Lrg. Mot. | 0 | 125% | 0 | | | | |
| 630.11 | (W) Welders | 0 | 0 | 0 | | (SP) Sub Panel | 0 | 100% | 0 | | | | |
| | (M) Misc. | 0 | 100% | 0 | | | | | | | | | |
| Total Connected Load = | | | 95,153 VA = | 114.5 | AMPS | Location of Panel: | | | | | | | |
| Total Load (Diversified) = | | | 80,027 VA = | 96.3 | AMPS | | | | | | | | |

Plotted: Mar 23, 2022, 6:53 PM by user: jrb...
 C:\Users\jrb\OneDrive\Documents\218007.002 - EDH6 - Detail View HVAC Improvements - MMS\Project Files\Drawings\ME-218007-DETAILS AND SCHEDULES.dwg

| REVISION No. | DATE | DESCRIPTION |
|--------------|-----------|-------------|
| D1 | 3/23/2022 | ADDENDUM #1 |



EDINBURG CONSOLIDATED INDEPENDENT SCHOOL DISTRICT
MEMORIAL MS - HVAC IMPROVEMENTS
 3105 N DOOLITTLE RD, EDINBURG, TX 78542

DATE: 3/23/2022
 DRAWN BY: DBR
 CHECKED BY: DBR
 PROJECT NUMBER: 218007.002
 SHEET TITLE:

ELECTRICAL DETAILS
 SHEET NUMBER: **E6.01**

| | | |
|---|---|---|
| <p>1 ROOF CONDUIT PENETRATION DETAIL NOT TO SCALE E10001</p> | <p>2 UNISTRUT CONDUIT DETAIL NOT TO SCALE E10003</p> | <p>3 ROOF MOUNTED RECEPTACLE NOT TO SCALE E13023</p> |
| <p>4 1 AND 2 HR. GYPSUM/WALLBOARD PIPE PENETRATION NOT TO SCALE E10017</p> | <p>5 PIPE AND/OR CONDUIT PENETRATION NOT TO SCALE E10018</p> | <p>6 2, 3 AND 4 HR. PENETRATIONS FOR CONCRETE FLOOR AND WALL NOT TO SCALE E10019</p> |
| <p>7 ROOF CONDUIT SUPPORT DETAIL NOT TO SCALE E10020</p> | <p>8 ROOF EXH. FAN RECEPTACLE MTG. NOT TO SCALE E13028</p> | <p>9 PANELBOARD MOUNTING DETAIL NOT TO SCALE E22002</p> |