

TOWN OF ADDISON ADDISON ATHLETIC CLUB

3900 BELTWAY DR.
ADDISON, TX 75001

ADDISON ATHLETIC CLUB - HVAC IMPROVEMENTS ISSUE FOR BID 9/17/2018



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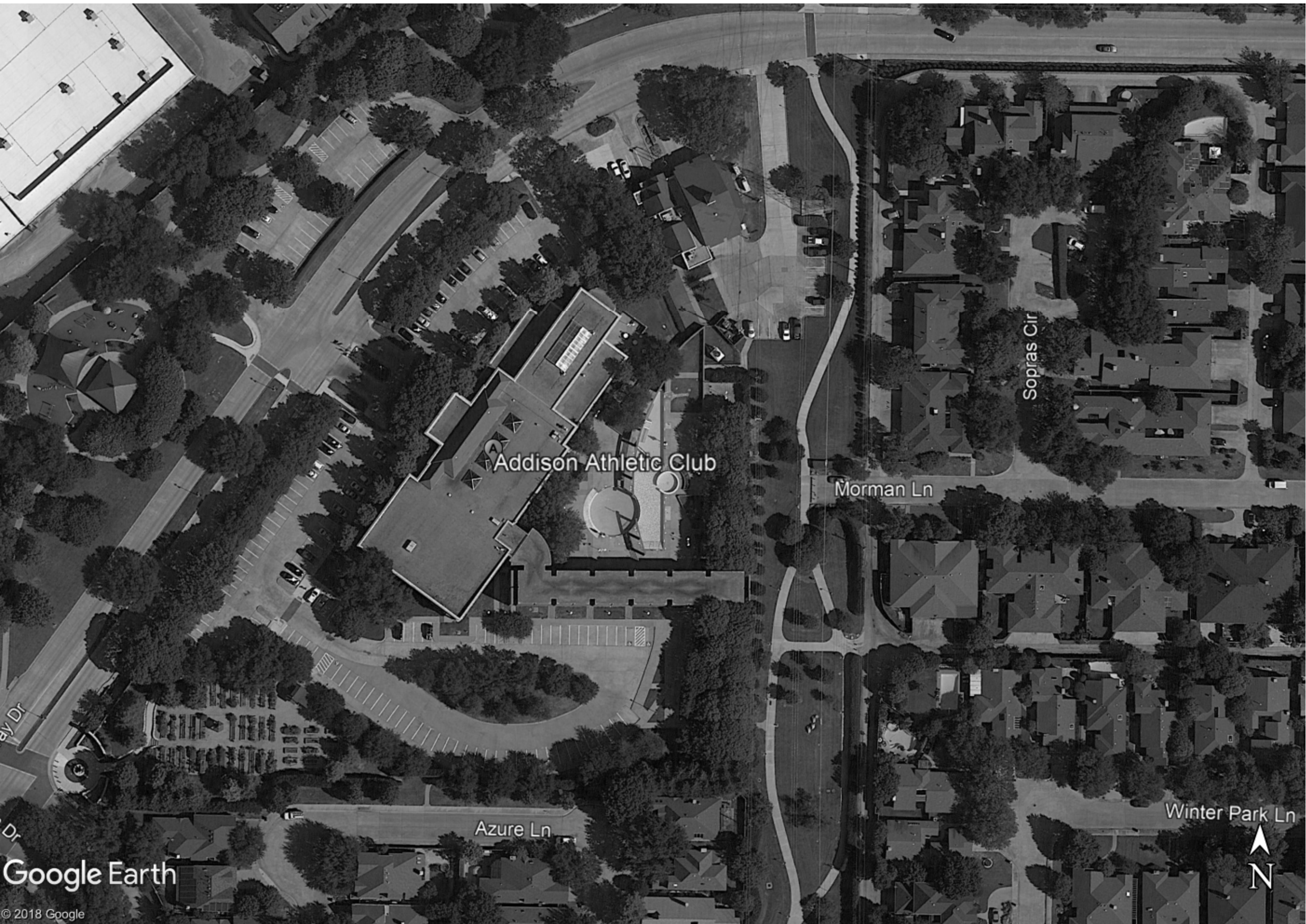
RWB PROJECT NO.: 17116-00

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MEP SHEET LIST

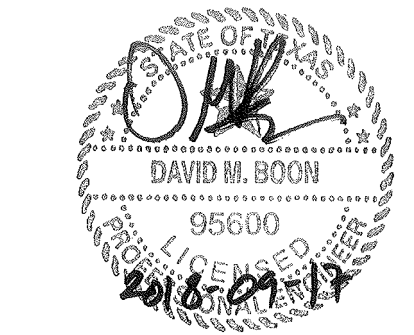
| SHEET NO. | SHEET NAME | SHEET ISSUE DATE |
|-----------|------------------------------------|------------------|
| ME-00 | GENERAL NOTES & LEGEND | 09/10/18 |
| ME-01 | GROUND FLOOR DEMOLITION - AREA 'A' | 09/10/18 |
| ME-02 | GROUND FLOOR DEMOLITION - AREA 'B' | 09/10/18 |
| ME-03 | SECOND FLOOR DEMOLITION - AREA 'A' | 09/10/18 |
| ME-04 | SECOND FLOOR DEMOLITION - AREA 'B' | 09/10/18 |
| ME-11 | GROUND FLOOR PLAN - AREA 'A' | 09/10/18 |
| ME-12 | GROUND FLOOR PLAN - AREA 'B' | 09/10/18 |
| ME-13 | SECOND FLOOR PLAN - AREA 'A' | 09/10/18 |
| ME-14 | SECOND FLOOR PLAN - AREA 'B' | 09/10/18 |
| ME-21 | SCHEDULES | 09/10/18 |
| ME-31 | DETAILS | 09/10/18 |
| ME-41 | ELECTRICAL SCHEDULES & DETAILS | 09/10/18 |





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REGISTRATION

DRAWING HISTORY

[illegible]

KEY PLAN

PROJECT NAME
ADDISON
ATHLETIC CLUB
- HVAC
IMPROVEMENTS

PROJECT
LOCATION
3900 BELTWAY DR.
ADDISON, TX 75001

PROJECT NUMBER
17116.00

















































SHEET TITLE

GENERAL NOTES &
LEGEND

SHEET NUMBER

ME-00

POWER LEGEND

| | |
|---|--|
|  | RACEWAY IN WALL OR ABOVE CEILING |
|  | RACEWAY IN OR BELOW FLOOR |
|  | HOMERUN - LETTER(S) DENOTES PANEL NAME NUMBER DENOTES CIRCUIT NUMBER |
|  | DENOTES DEVICE MOUNTED ABOVE COUNTER |
|  | DENOTES WEATHERPROOF DEVICE |
|  | DENOTES GROUND FAULT INTERRUPTING DEVICE |
|  | DUPLEX RECEPTACLE |
|  | QUADRAPLEX RECEPTACLE |
|  | ISOLATED GROUND DUPLEX RECEPTACLE |
|  | ISOLATED GROUND QUADRAPLEX RECEPTACLE |
|  | FLOOR DUPLEX RECEPTACLE |
|  | FLOOR ISOLATED GROUND DUPLEX RECEPTACLE |
|  | FLOOR QUADRAPLEX RECEPTACLE |
|  | FLOOR ISOLATED GROUND QUADRAPLEX RECEPTACLE |
|  | CEILING MOUNTED DUPLEX RECEPTACLE |
|  | CEILING MOUNTED QUADRAPLEX RECEPTACLE |
|  | USB RECEPTACLE |
|  | USB DUPLEX COMBO RECEPTACLE |
|  | USB QUADRAPLEX COMBO RECEPTACLE |
|  | ISOLATED GROUND USB DUPLEX COMBO RECEPTACLE |
|  | ISOLATED GROUND USB QUAD COMBO RECEPTACLE |
|  | 125V. SIMPLEX RECEPTACLE |
|  | 250V. SINGLE PHASE, 3 WIRE GROUNDED RECEPTACLE (NUMBER INDICATES AMPERAGE RATING) |
|  | THREE PHASE RECEPTACLE (NUMBER DENOTES AMPERAGE RATING) |
|  | CEILING JUNCTION BOX |
|  | WALL JUNCTION BOX |
|  | POWER/DATA SURFACE RACEWAY |
|  | POWER/DATA POWER POLE |
|  | CONTROL DEVICE |
|  | SCOREBOARD FLUSH FLOOR BOX |
|  | MOTOR CONNECTION |
|  | MOTOR STARTER |
|  | DISCONNECT SWITCH |
|  | DISCONNECT SWITCH - FUSED |
|  | 480V PANELBOARD |
|  | 208V PANELBOARD |
|  | DISTRIBUTION PANELBOARD |
|  | DRY-TYPE TRANSFORMER |
| RISER DIAGRAM LEGEND | |
|  | TRANSFORMER |
|  | METER |
|  | GROUND CONNECTION |
|  | CIRCUIT BREAKER |
|  | DRAW-OUT CIRCUIT BREAKER |
|  | FUSED SWITCH |
|  | NON-FUSED DISCONNECT |
|  | AUTOMATIC TRANSFER SWITCH |
|  | GENERATOR |
|  | HEATER CONNECTION |
































































GENERAL POWER NOTES:

1. ALL WORK SHALL COMPLY WITH APPLICABLE NATIONAL, STATE AND LOCAL CODES, RULES, REGULATIONS AND REQUIREMENTS OF THE SERVICE UTILITY COMPANY.
2. ALL WORK SHALL COMPLY WITH THE BUILDING OWNER'S CONSTRUCTION GUIDELINES.
3. ALL CIRCUITS SHOWN SHALL BE 120V, 20A CIRCUITS UNLESS NOTED OTHERWISE.
4. ALL CONDUCTORS SHALL BE #12 AWG UNLESS NOTED OTHERWISE.
5. ALL 120V RUNS LONGER THAN 60' SHALL BE #10 AWG UNLESS NOTED OTHERWISE ON THE PLANS.
6. ALL CONDUCTORS SHALL BE COPPER (#10 AND SMALLER SHALL BE SOLID).
7. WHERE CONDUCTOR SIZES ARE NOTED ON DRAWINGS, THAT CONDUCTOR SIZE SHALL BE THROUGH THE ENTIRE RUN UNLESS NOTED OTHERWISE.
8. PANELBOARD DIRECTORIES SHALL BE COMPLETELY FILLED OUT TO ACCURATELY IDENTIFY EACH CIRCUIT (EXISTING AND NEW CIRCUITS) IN ALL PANELS WITHIN SCOPE OF WORK. DIRECTORIES SHALL BE TYPEWRITTEN.
9. ALL RECEPTABLES MOUNTED OUTSIDE THE BUILDING SHALL HAVE GROUND FAULT CIRCUIT INTERRUPTER(GFCI) PROTECTION.
10. ELECTRIC CONNECTIONS TO PANELBOARDS SHALL BE MADE ONLY WHEN PANGLOSS INTERLOCK HAS BEEN OBTAINED.
11. ALL ELECTRICAL PANELS AND TRANSFORMERS SHALL HAVE PERMANENT ENGRAVED LABELS ON COVER INDICATING PANEL OR TRANSFORMER DESIGNATION.
12. CIRCUIT NUMBERS SHOWN ARE FOR LOCATION AND QUANTITY ONLY. VERIFY EXACT NUMBERS IN THE FIELD.
13. EACH CIRCUIT SHALL HAVE A DEDICATED NEUTRAL, CONNECTED BACK TO THE PANEL.
14. ALL EXPOSED CONDUIT TO MATCH EXISTING PAINT COLOR IN THAT AREA. COORDINATE WITH ARCHITECTURAL FINISHES PRIOR TO FINAL ROUGH-IN.

GENERAL ELECTRICAL DEMOLITION NOTES:

1. THE INFORMATION ON THE DEMOLITION DRAWINGS ARE NOT FROM "AS BUILT" DRAWINGS BUT FROM ORIGINAL DRAWINGS. THIS INFORMATION IS INCLUDED FOR THE CONTRACTOR'S USE ONLY. CONTRACTOR WILL BE RESPONSIBLE FOR VERIFYING THE SITE PRIOR TO SUBMITTING A BID TO DETERMINE THE AMOUNT OF WORK THAT WILL BE REQUIRED. CONTRACTOR SHALL EXAMINE THE EXISTING BUILDING AND GENERALLY VERIFY THE LOCATION OF ALL EXISTING ELECTRICAL SYSTEMS, INCLUDING BUT NOT LIMITED TO AND EFFECT ON. THE WORK REQUIRED BEFORE SUBMITTING A BID. SUBMISSION OF A BID WILL CONSTITUTE EVIDENCE THAT THE CONTRACTOR HAS INSPECTED THE SITE OF THE PROPOSED WORK.
2. REMOVE ALL EXISTING FIXTURES, WIRING DEVICES, ELECTRICAL EQUIPMENT AND CIRCUITING, WHETHER SPECIFICALLY INDICATED OR NOT, AS REQUIRED DUE TO THE REMOVAL OF ARCHITECTURAL AND MEP FIXTURES AND DEVICES IN THE WALLS TO WORK IN. ALL EQUIPMENT THAT HAS BEEN REMOVED AND IS NOT REUSED SHALL BE RETURNED TO THE OWNER, OR DISPOSED OF AS DIRECTED BY THE OWNER'S REPRESENTATIVE. THE PROPER DISPOSAL OF ANY MAJOR ELECTRICAL EQUIPMENT ITEMS SUCH AS PANELS, TRANSFORMERS AND FIXTURES WITH OWNER'S REPRESENTATIVE AND ELECTRICAL ENGINEER.
3. COORDINATE DEMOLITION WORK WITH THE BUILDING MAINTENANCE PERSONNEL AND OTHER TRADES PERFORMING WORK IN THE BUILDING PRIOR TO THE REMOVAL OF ANY ITEMS OF EQUIPMENT OR SYSTEMS THAT WILL EFFECT OTHER SYSTEMS WITHIN THE LIMIT OF NEW CONSTRUCTION OR OTHER AREAS OF THE BUILDING. CONTRACTOR SHALL VERIFY WITH THE OWNER IF THE BUILDING WILL BE OCCUPIED DURING CONSTRUCTION, AND THEREFORE, UTILITIES MUST REMAIN IN OPERATION AT ALL TIMES. ANY REQUIRED OUTAGES MUST BE COORDINATED WITH THE OWNER.
4. PRIOR TO THE REMOVAL OF ANY MEP ITEMS OF EQUIPMENT, CONTRACTOR MUST VERIFY THE ORIGIN AND TERMINATION OF THOSE SYSTEMS AND CONFIRM THAT THE ITEMS BEING REMOVED WILL NOT SERVE ANY ITEMS THAT ARE TO REMAIN (INCLUDING UTILITIES) AND THAT THERE IS NO OUTSIDE INTERFERENCE.
5. MODIFY AND RECONNECT THE EXISTING ELECTRICAL EQUIPMENT AS REQUIRED TO REMAIN, AND NOT AFFECTED BY THE NEW CONSTRUCTION, TO ENSURE THE FINAL SYSTEMS FUNCTION AS REQUIRED AND ACCEPTABLE TO AUTHORITIES.
6. DO NOT ABANDON ANY ITEMS IN PLACE. REMOVE ALL COMPONENTS ASSOCIATED WITH EACH ITEM CALLED OUT TO BE REMOVED.
7. RECONNECT CIRCUITING AS REQUIRED TO MAINTAIN CONTINUITY TO REMAINING OUTLETS WHEN EXISTING FIXTURES AND DEVICES ARE REMOVED. CONSOLIDATE PARTIALLY LOADED CONVENIENCE RECEPTACLE CIRCUITS TO MAXIMIZE SPACE MADE AVAILABLE AT THE PANELBOARD. TRACE CONSOLIDATED CIRCUITS TO VERIFY THAT THE TOTAL LOAD DOES NOT EXCEED 1920 VOLT AMPERES.
8. PROVIDE EXTENSION RINGS, COVER PLATES OR ACCESS DOORS AS NECESSARY TO MAINTAIN ACCESS TO EXISTING WIRING, WHERE REQUIRED BY NEW CONSTRUCTION. ALL OUTLETS AND SWITCHES IN THOSE AREAS, REMOVE ALL POWER WIRING BACK TO ITS OVERCURRENT DEVICE AND MARK CIRCUIT BREAKERS AS "SPARE". INSTALL BLANK COVER PLATES ON ALL BOXES. REFER TO DRAWINGS FOR ADDITIONAL REQUIREMENTS AND OTHER SPECIFIC EXCEPTIONS.
9. COORDINATE ALL DEMOLITION WORK WITH NEW REQUIREMENTS TO ASSURE THAT EXISTING EQUIPMENT, WIRING, ETC. THAT IS REQUIRED FOR A COMPLETE AND OPERABLE SYSTEM IS NOT REMOVED.
10. THE CONTRACTOR SHALL INCLUDE IN HIS BID ALL MATERIALS AND LABOR REQUIRED FOR THE REMOVAL OF ALL DEMOLITION ITEMS, INCLUDING BUT NOT LIMITED TO, COMPONENTS, EQUIPMENT, WIRING, CONDUITS, AND CABLEING SO AS TO MAINTAIN OPERATION OF ALL SYSTEMS THROUGHOUT THE OCCUPIED AREAS OF THE BUILDING DURING DEMOLITION.
11. EXISTING RACEWAYS MAY BE REUSED, IF IN PLACE, WHERE POSSIBLE, AND WHERE IN COMPLIANCE WITH THE SPECIFICATIONS AND THE INTENT OF THE CONTRACT DOCUMENTS. UPGRADE AND/OR PROVIDE NEW CONDUIT SUPPORTS WHERE NECESSARY. IF ALL RACEWAYS ARE BEING REUSED, INSURE INTEGRITY OF EXISTING RACEWAYS BEFORE REUSE.

MECHANICAL LEGEND

| | |
|---|---|
|  | CHILLED WATER SUPPLY |
|  | CHILLED WATER RETURN |
|  | PRIMARY HEATING WATER RETURN |
|  | PRIMARY HEATING WATER RETURN |
|  | REFRIGERANT SUCTION |
|  | REFRIGERANT LIQUID |
|  | REFRIGERANT GAS |
|  | CONDENSATE DRAIN |
|  | FLOW IN DIRECTION OF ARROW |
|  | SLOPE DOWN IN DIRECTION OF ARROW WITH SLOPE SHOWN |
|  | STRAINER WITH BLOW DOWN VALVE |
|  | GATE VALVE |
|  | BUTTERFLY VALVE |
|  | UNION |
|  | BALL VALVE |
|  | GLOBE VALVE |
|  | PLUG VALVE |
|  | CHECK VALVE |
|  | FLOW SWITCH |
|  | FLOW METER |
|  | AUTO FLOW CONTROL VALVE |
|  | AUTOMATIC 2-WAY CONTROL VALVE |
|  | AUTOMATIC 3-WAY CONTROL VALVE |
|  | AUTOMATIC STEAM CONTROL VALVE |
|  | PRESSURE REDUCING VALVE |
|  | PRESSURE RELIEF VALVE |
|  | GAUGE COCK |
|  | PRESSURE GAUGE WITH GAUGE COCK |
|  | THERMOMETER |
|  | INSTRUMENT PORT |
|  | CAP |
|  | LOW PRESSURE DRIP TRAP ASSEMBLY |
|  | MEDIUM PRESSURE DRIP TRAP ASSEMBLY |
|  | AUTOMATIC AIR VENT |
|  | RISE IN PIPING |
|  | DROP IN PIPING |
|  | THERMOWELL |
|  | ANCHOR POINT |
|  | GUIDE OR RACK POINT |
|  | CONCENTRIC REDUCER |
|  | ECCENTRIC REDUCER |
|  | THERMOSTAT/TEMPERATURE SENSOR |
|  | HUMIDITY SENSOR |
|  | CARBON DIOXIDE SENSOR |
|  | DUCT SMOKE DETECTOR |
|  | WALL SWITCH |
|  | WALL SWITCH WITH PUSH BUTTON |
|  | WALL TIMER SWITCH |
|  | SUPPLY AIR ARROW |
|  | RETURN AIR ARROW |
|  | RISE IN DUCT |
|  | DROP IN DUCT |
|  | SUPPLY DUCT |
|  | RETURN OR EXHAUST DUCT |
|  | MANUAL DAMPER |
|  | MOTORIZED DAMPER |
|  | FIRE DAMPER |
|  | SMOKE DAMPER |
|  | FIRE-SMOKE DAMPER |
|  | CONNECT TO EXISTING |
|  | EXISTING WORK TO REMAIN |
|  | EXISTING WORK TO BE REMOVED |
|  | NEW WORK |

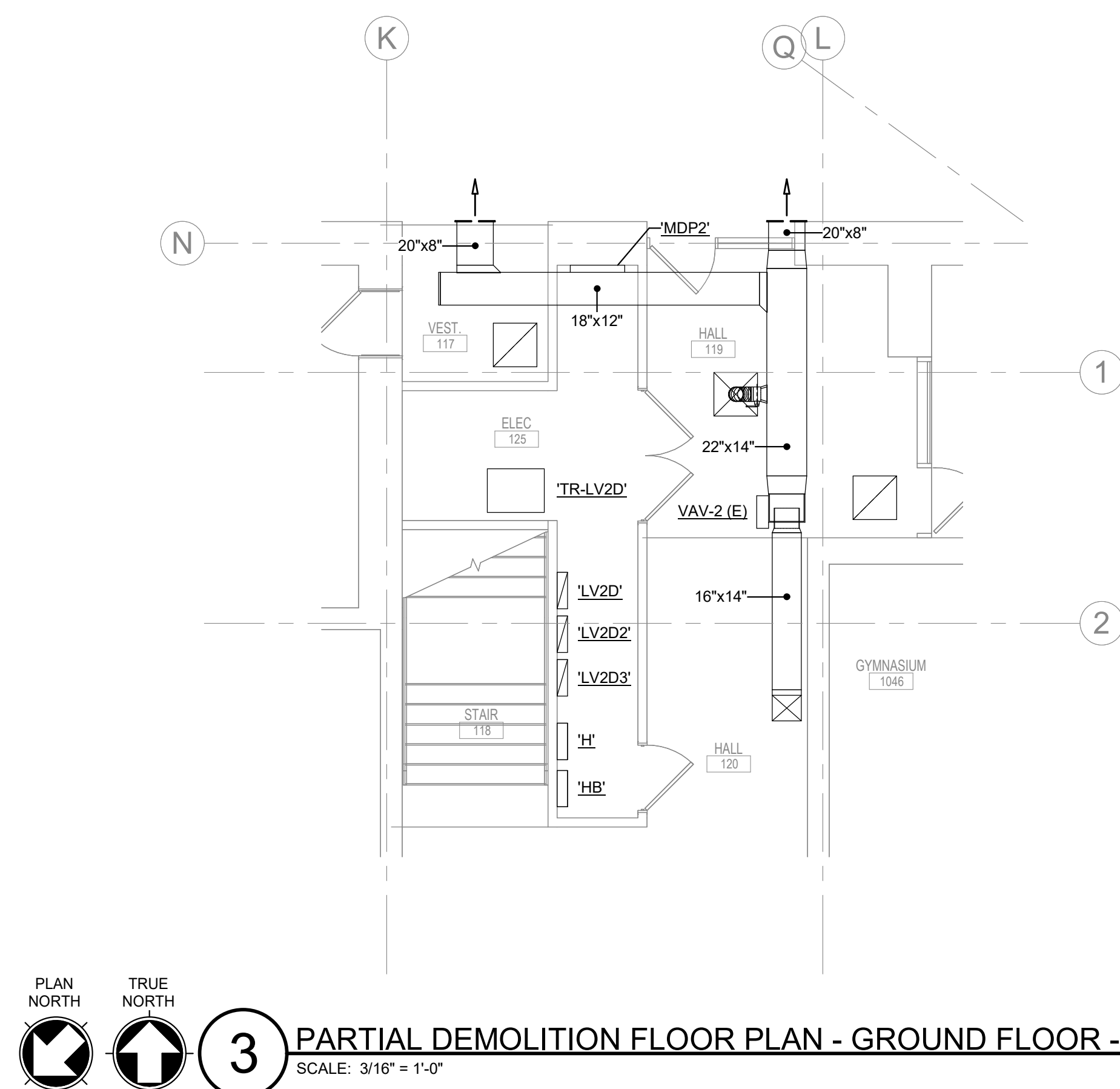
NOTE: ALL SYMBOLS MAY NOT BE USED ON THIS PROJECT

GENERAL DEMOLITION MECHANICAL NOTES:

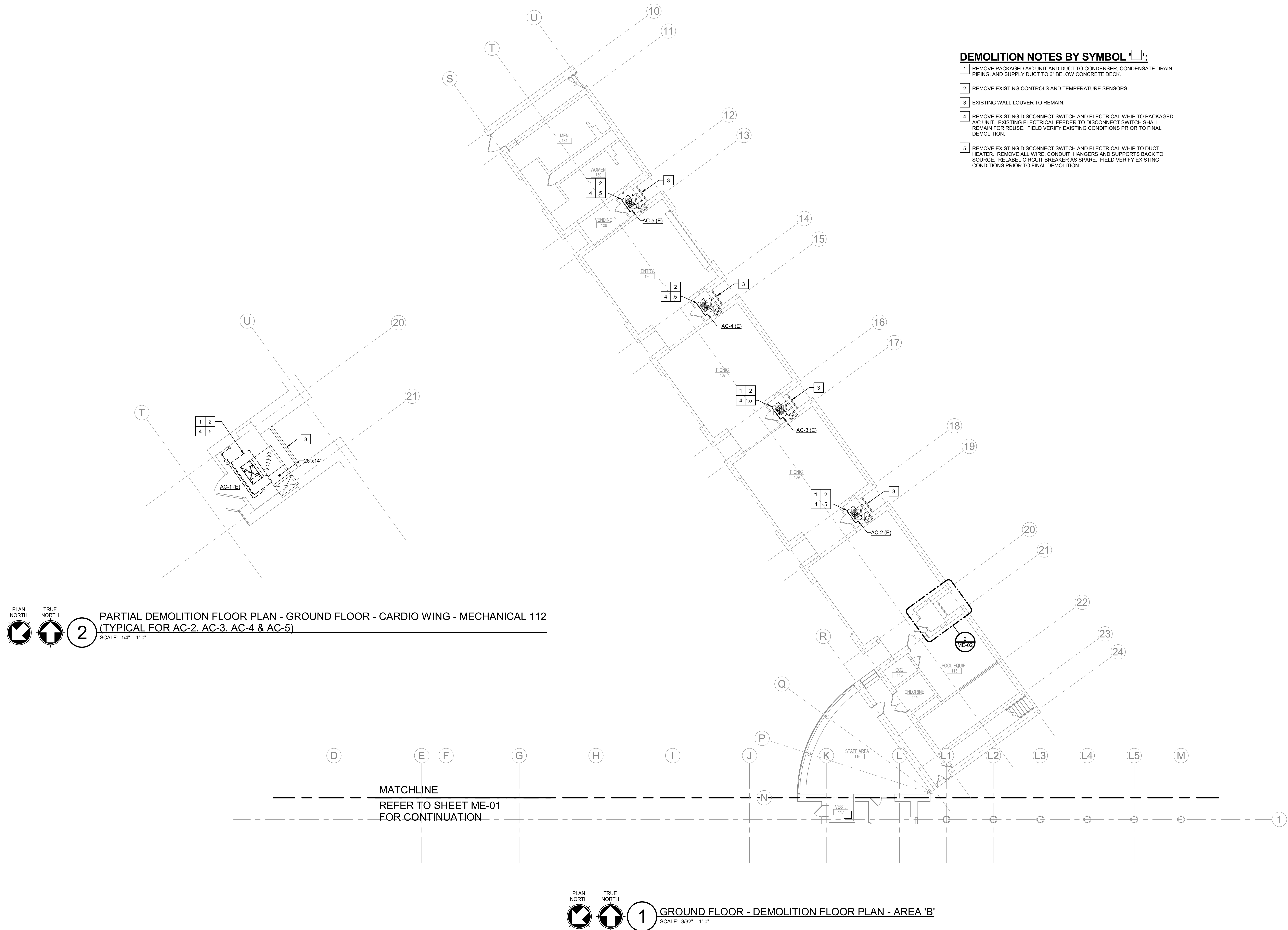
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2. EXISTING MPE ITEMS TO BE REMOVED SHALL BE RETURNED TO THE OWNER OR DISPOSED OF AS DIRECTED BY THE DESIGNATED OWNER'S REPRESENTATIVE.
3. COORDINATE DEMOLITION WORK WITH THE BUILDING MAINTENANCE PERSONNEL AND OTHER TRADES PERFORMING WORK IN THE BUILDING PRIOR TO THE REMOVAL OF ANY ITEMS OF EQUIPMENT OR SYSTEMS THAT WILL EFFECT OTHER SYSTEMS WITHIN THE LIMITED DEMOLITION OR OTHER AREAS OF THE BUILDING. THE BUILDING MUST BE OCCUPIED DURING CONSTRUCTION, AND, THEREFORE, UTILITIES MUST REMAIN IN OPERATION AT ALL TIMES. ANY REQUIRED OUTAGES MUST BE COORDINATED WITH THE OWNER.
4. PRIOR TO THE REMOVAL OF ANY MPE ITEMS OR EQUIPMENT, CONTRACTOR MUST VERIFY THE ORIGIN AND TERMINATION OF THOSE SYSTEMS AND CONFIRM THAT THE LIMITS OF THE MOVABLE AND REMOVABLE ITEMS THAT ARE TO REMAIN (INCLUDING THOSE IN AREAS OUTSIDE THE CONTRACT LIMITS).

GENERAL MECHANICAL NOTES:

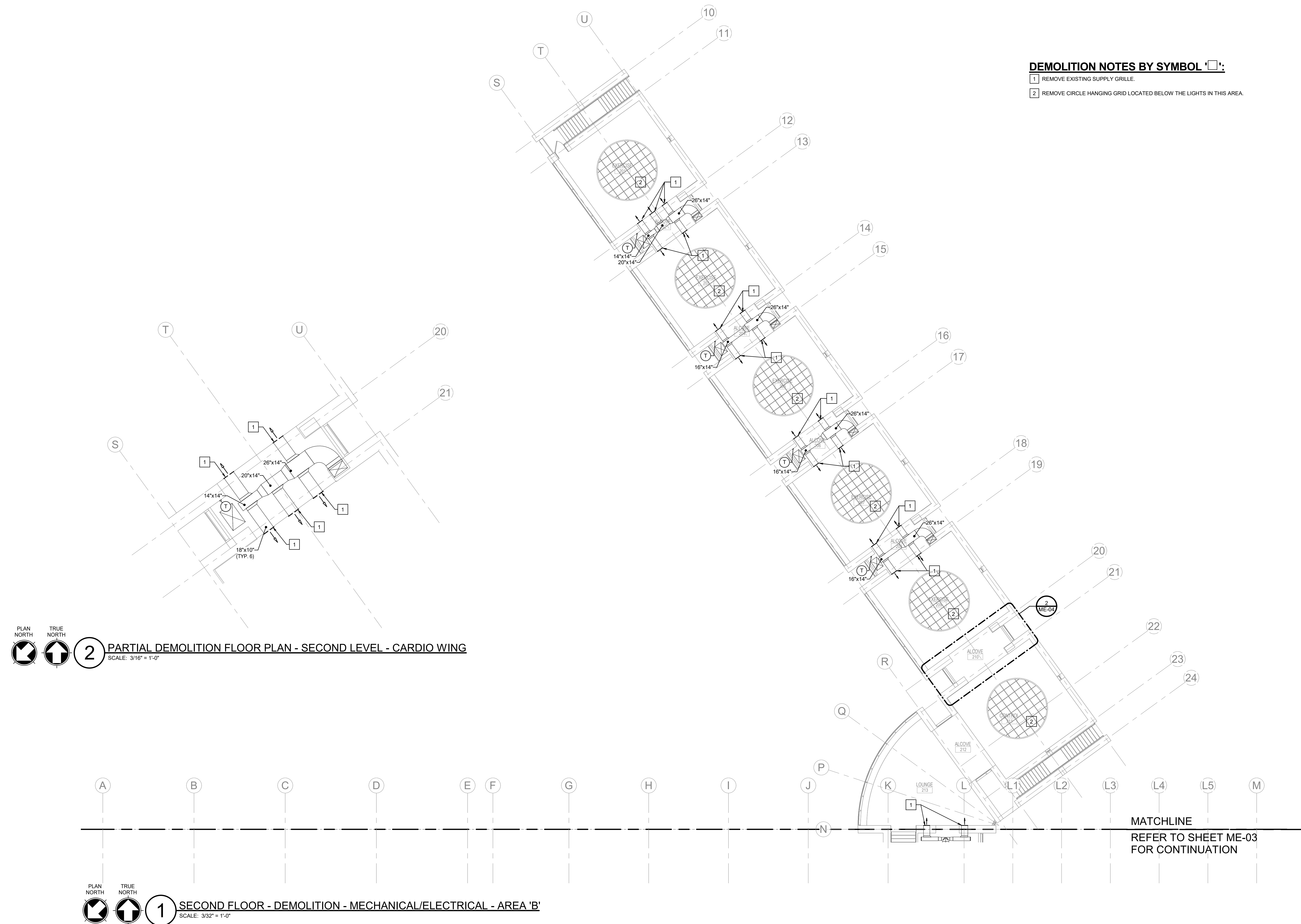
1. ALL DUCTWORK SHALL BE RUN CONCEALED ABOVE CEILING AS HIGH AS POSSIBLE & CONCEALED IN WALLS, CHASES, OR FURROUTS IN GENERAL LOCATIONS SHOWN, UNLESS NOTED OTHERWISE.
2. LOCATE AIR DIVICES APPROXIMATELY WHERE SHOWN. FOR EXACT LOCATION AND FRAME MOUNTING TYPES, REFER TO ARCHITECTURAL REFLECTED CEILING PLANS. ALL CEILING DIFFUSERS TO BE FOUR-WAY TYPE, UNLESS NOTED OTHERWISE BY AIR FLOW ARROWS ON FLOOR PLAN.
3. DUCTWORK INSULATION TO MEET CURRENT 2015 IECC REQUIREMENTS. RECTANGULAR SUPPLY AIR DUCTWORK IS TO BE EXTERNALLY INSULATED WITH ONE AND ONE-HALF INCH INSULATION. RECTANGULAR RETURN AND TRANSFER AIR DUCTS SHALL BE LINED WITH 1" LINER ONLY. DUCT SIZES SHOWN ARE NET INTERNAL CLEAR DIMENSIONS. SHEET METAL SIZES ARE TO BE INCREASED IN SIZE TO MAINTAIN THESE DIMENSIONS. DUCTWORK SHALL BE RIGIDLY SUPPORTED AND MECHANICALLY WRAPPED. FLEXIBLE RUN DUCTWORK SHALL HAVE A MINIMUM R-VALUE OF 50.

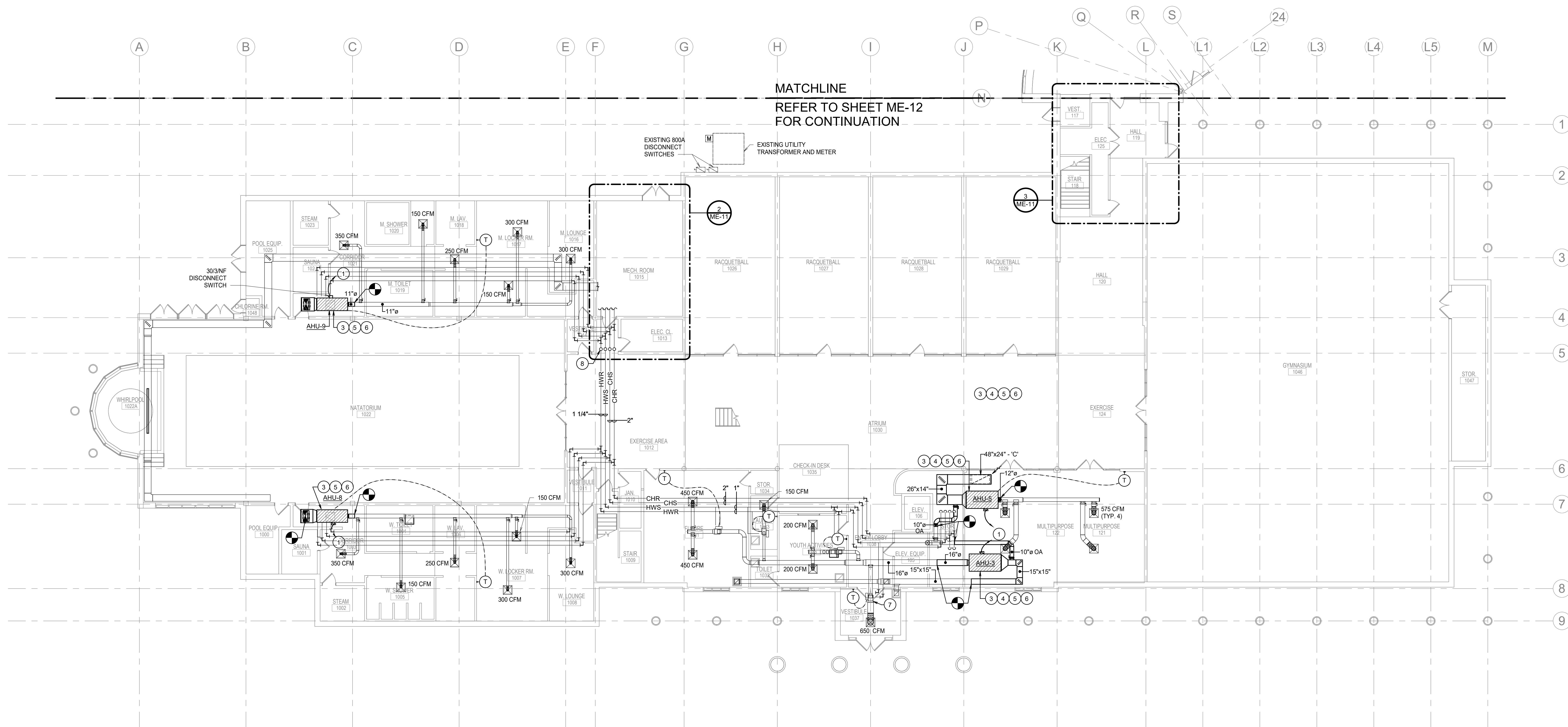
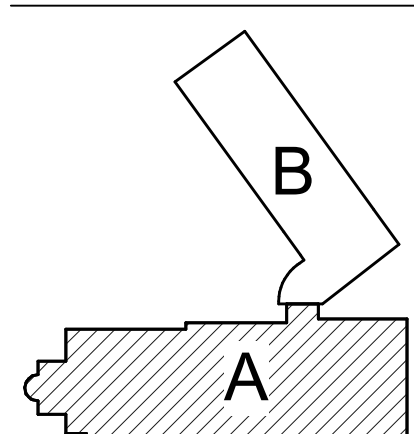


- 1 EXISTING AIR HANDLING UNIT TO BE REMOVED.
- 2 EXISTING PNEUMATIC THERMOSTAT TO BE REMOVED.
- 3 REMOVE EXISTING DISCONNECT SWITCH AND ELECTRICAL WHIP TO PACKAGED AC UNIT. EXISTING ELECTRICAL FEEDER TO DISCONNECT SWITCH SHALL REMAIN FOR REUSE. FIELD VERIFY EXISTING CONDITIONS PRIOR TO FINAL DEMOLITION.
- 4 POOL AREA AND POOL EQUIPMENT NOT IN SCOPE.
- 5 REMOVE EXISTING CHS/CHR AND HWS/HWR BACK TO ISOLATION VALVES.
- 6 DISCONNECT EXISTING CONDENSATE DRAIN PIPING TO ALLOW FOR EQUIPMENT REMOVAL.
- 7 EXISTING CHILLER AND ASSOCIATED EQUIPMENT TO REMAIN OPERATIONAL THROUGHOUT THE CONSTRUCTION PROCESS.
- 8 REMOVE LAY-IN CEILING AND GRID TO ALLOW FOR THE AHU REPLACEMENT. SAVE AND PROTECT THE TILE AND GRID FOR RE-INSTALLATION.
- 9 REMOVE GYPSUM CEILING AND ACCESS PANELS TO ALLOW FOR THE AHU REPLACEMENT.
- 10 4" CHS/R & HWS/R UP TO SECOND FLOOR.
- 11 REPLACEMENT OF THIS AHU SHALL BE PRICED AS AN ALTERNATE BID.





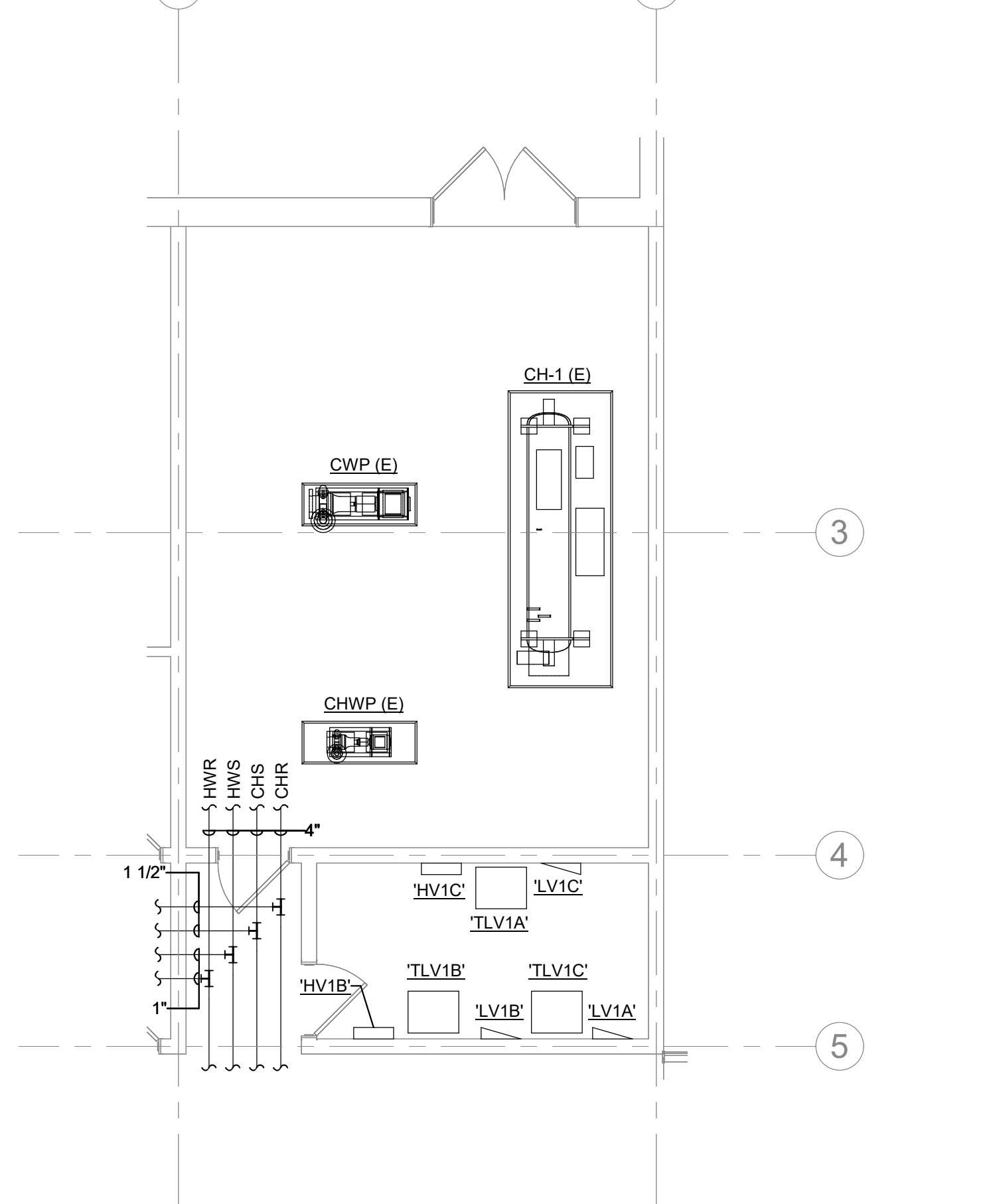


[illegible]

PLAN NORTH TRUE NORTH

1 GROUND FLOOR - MECHANICAL/ELECTRICAL - AREA 'A'

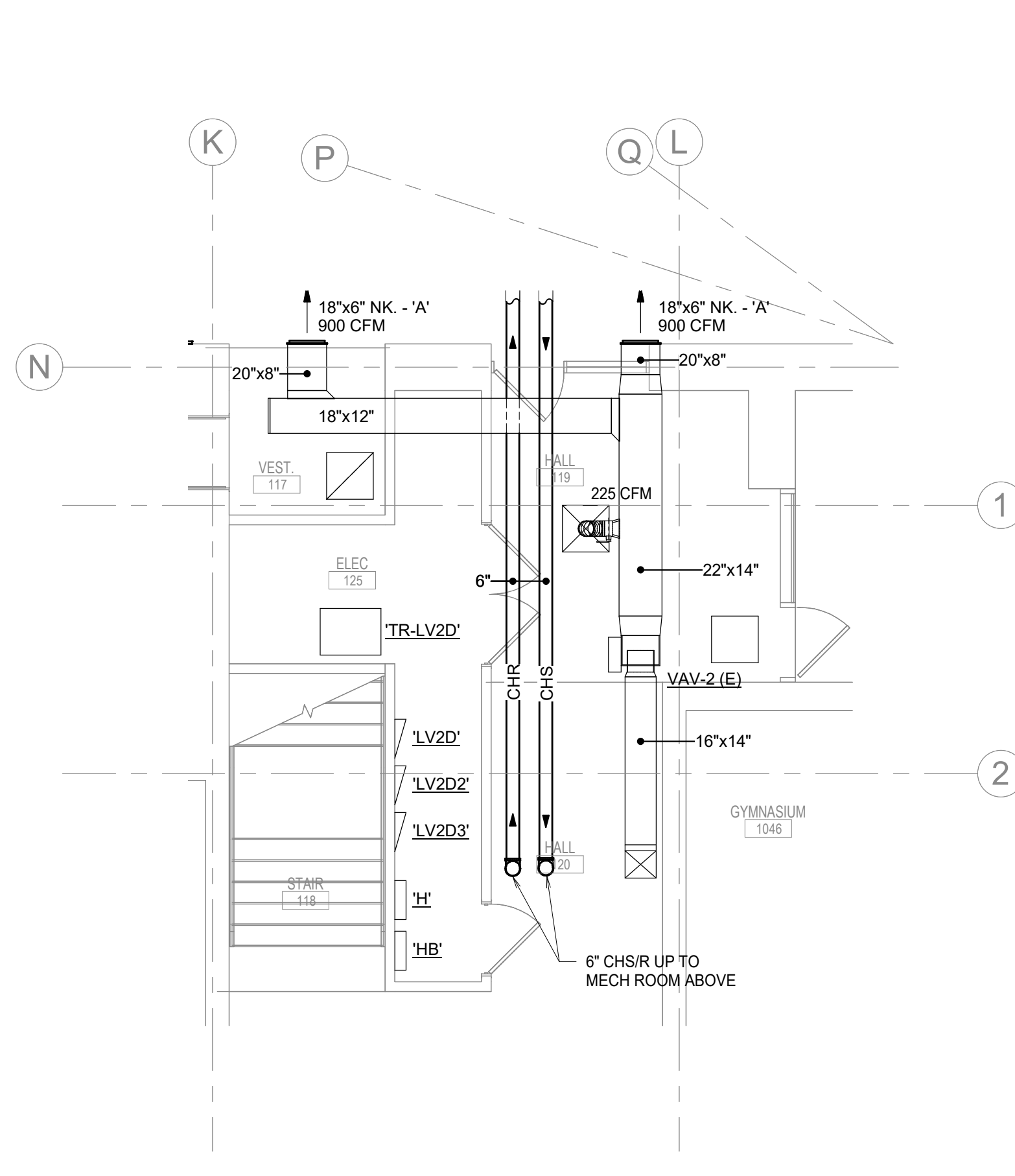
SCALE: 3/32" = 1'-0"



PLAN NORTH TRUE NORTH

2 PARTIAL FLOOR PLAN - GROUND FLOOR - ORIGINAL BUILDING - MECH 1015

SCALE: 3/16" = 1'-0"



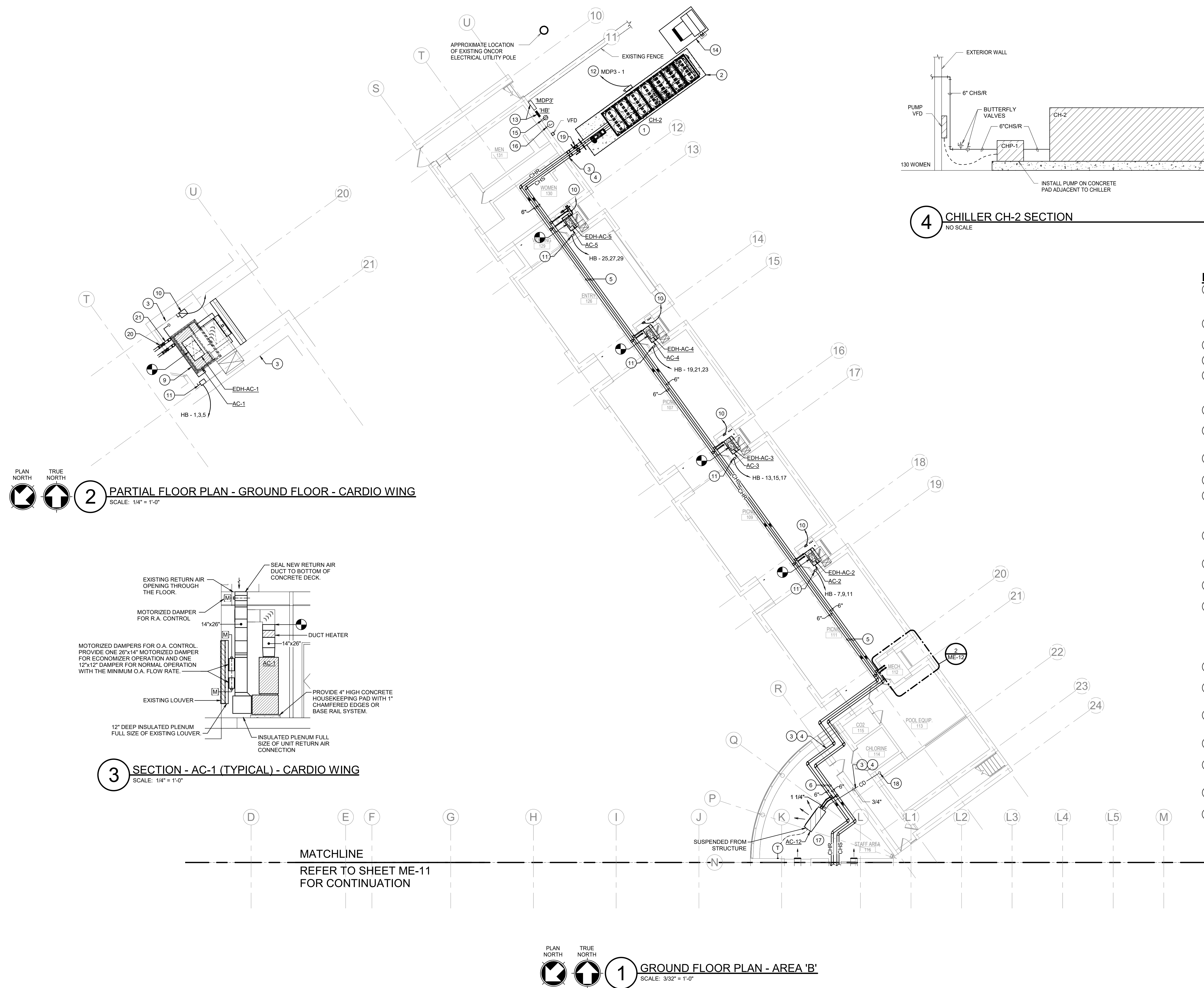
PLAN NORTH TRUE NORTH

  **3** PARTIAL FLOOR PLAN - GROUND FLOOR - ORIGINAL BUILDING - MECH 125

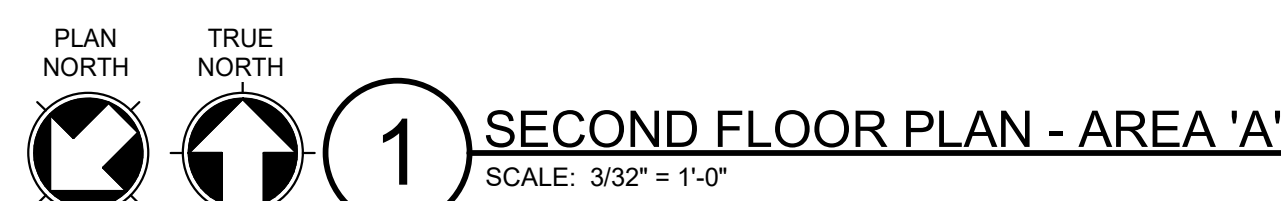
SCALE: 3/16" = 1'-0"

NOTES BY SYMBOL '○':

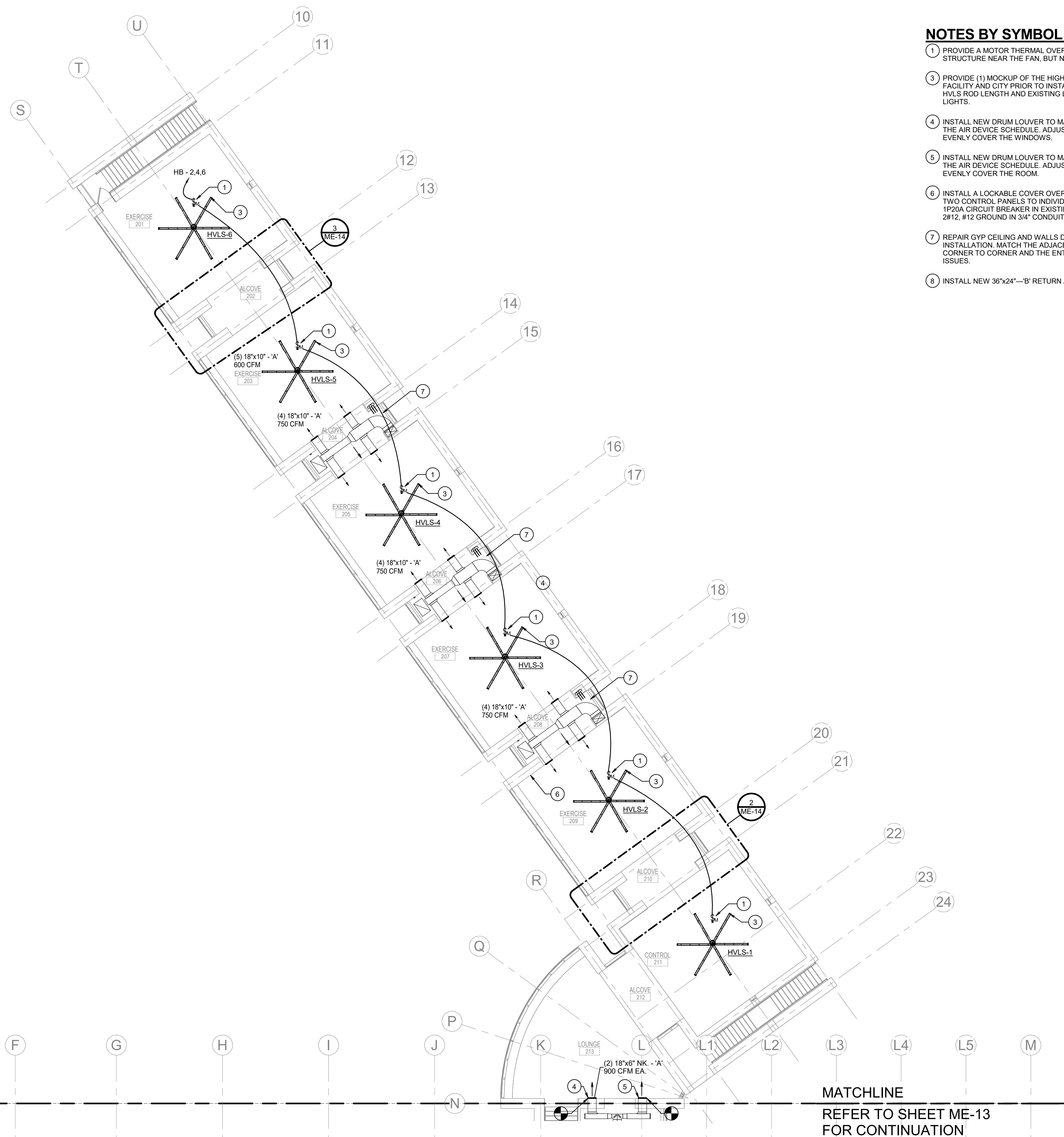
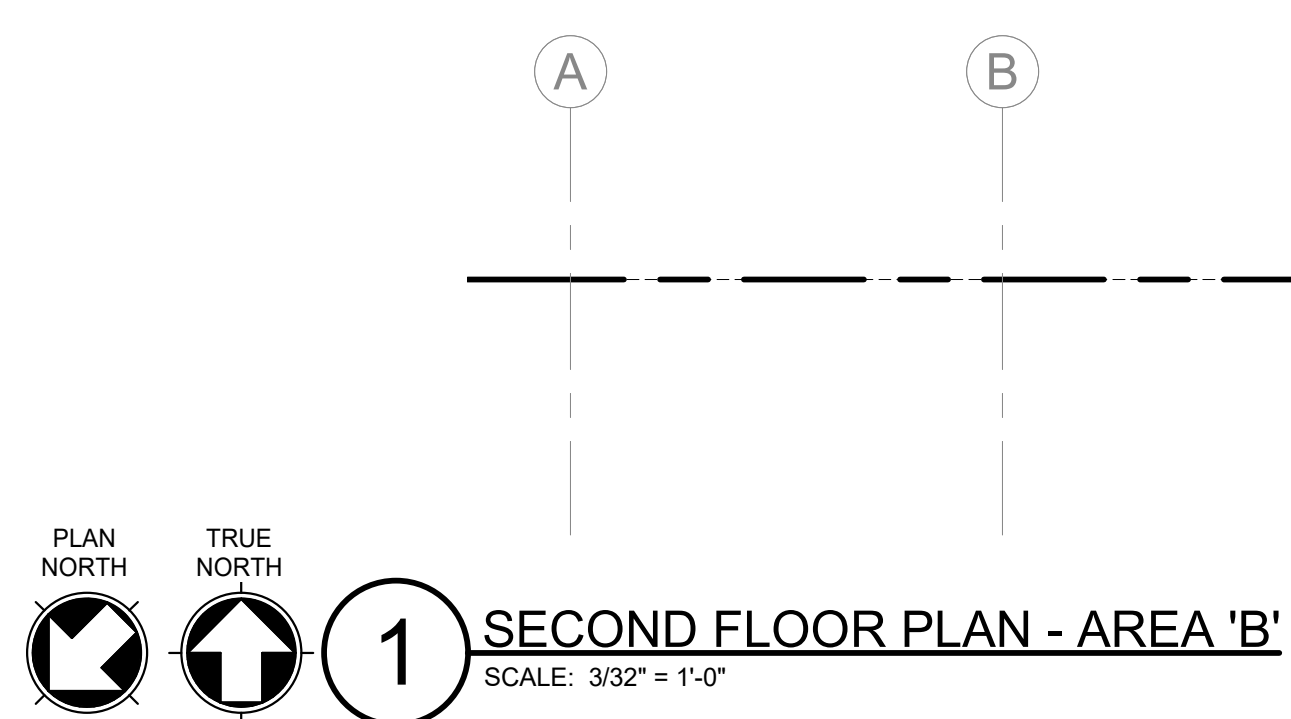
- ① TERMINATE A NEW 30/315AF FUSED DISCONNECT SWITCH FOR NEW A/C UNIT. PROVIDE TO EXISTING FEEDER MADE AVAILABLE FROM DEMOLITION. PROVIDE NEW ELECTRICAL WHIP FROM NEW DISCONNECT SWITCH TO NEW A/C UNIT WITH Ø3/4" #12 GROUND IN 3/4" CONDUT. FIELD VERIFY EXISTING CONDITIONS PRIOR TO FINAL ROUGH-IN.
- ③ SUSPEND NEW UNIT FROM STRUCTURE UTILIZING NEW VIBRATION ISOLATION.
- ④ REPLACE THE EXISTING CEILING GRID AND LAY-IN TILE TO MATCH THE ORIGINAL CONDITIONS.
- ⑤ REPAIR GYP CEILINGS AND PATCH TO MATCH THE ADJACENT LOCKER ROOM CEILING. INSTALL (2) 24"x24" STAINLESS STEEL ACCESS PANELS, ONE TO ACCESS FILTERS AND ONE TO ACCESS THE COIL SECTION AND CONTROL VALVES.
- ⑥ PROVIDE NEW 2-WAY CONTROL VALVES AND TEMP SENSOR FOR NEW AHU.
- ⑦ EXISTING TERMINAL UNIT TO REMAIN. VERIFY OPERATION PRIOR TO PERFORMING TASK ON NEW AHU.
- ⑧ 4" CHSR & HW/SR UP TO SECOND FLOOR.

[illegible]

FILE PATH: C:\Revit Local Files\2018\17116-Addison Athletic Club-RWB-2018_arrow.rvt
DATE/TIME: 9/17/2018 11:56:12 AM
PLOT SCALE: As indicated

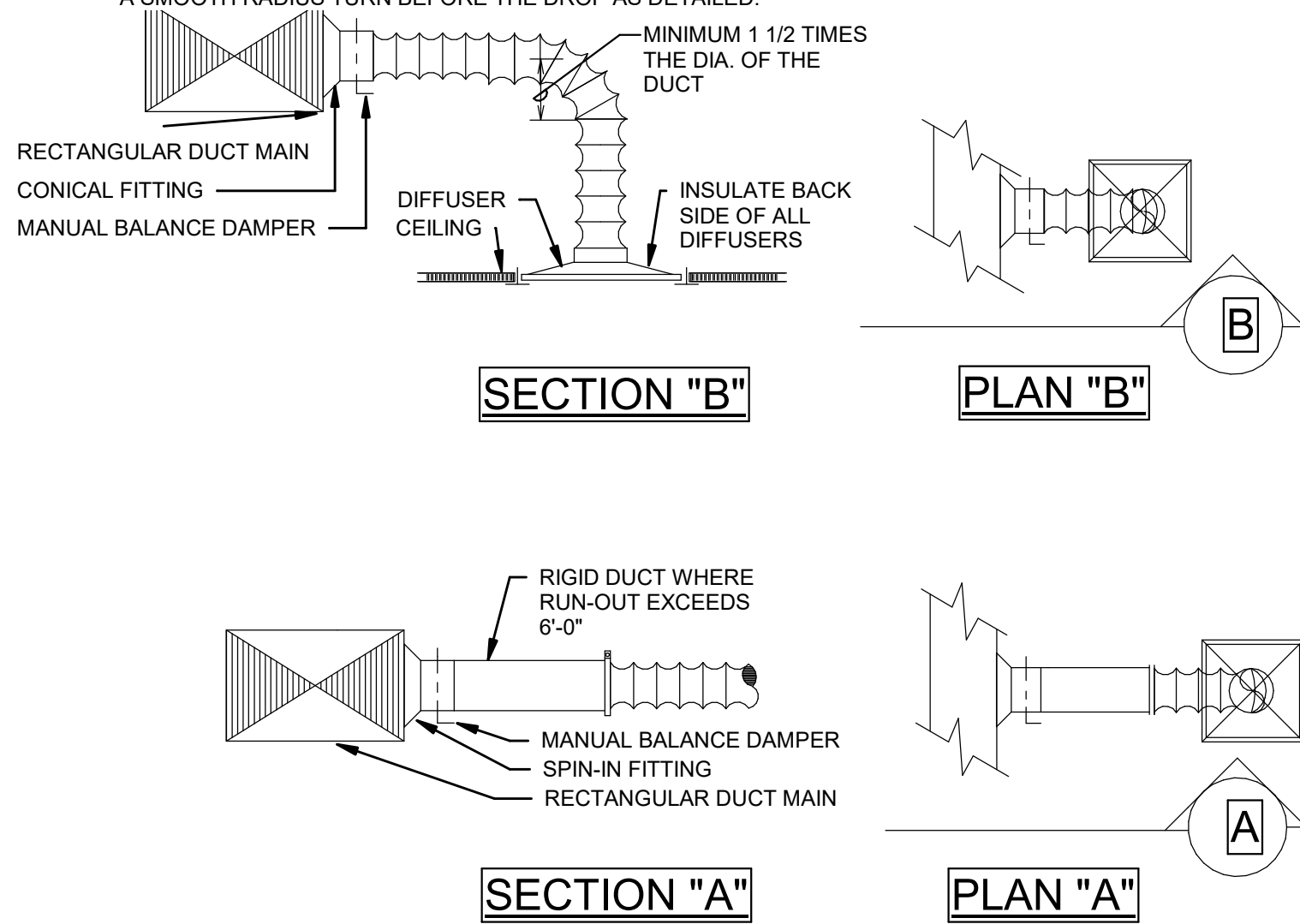
[illegible]

- 1 SUSPEND AHU FROM STRUCTURE AND CONNECT TO EXISTING SUPPLY DUCT. PROVIDE NEW RETURN AIR GRILLE AND RETURN AIR DUCT. CONNECT EXISTING OUTSIDE AIR DUCT TO NEW AHU. INSTALL NEW ELECTRONIC ACTUATORS ON EXISTING DAMPERS. PROVIDE NEW 2-WAY LOW VOLTAGE CONTROL VALVES FOR THE CHILLED AND HEATING WATER COILS. CONNECT NEW AHU TO THE EXISTING CONDENSATE PIPING.
- 2 UTILIZE THE EXISTING STRUCTURAL PLATFORM FOR THE NEW AHU. RETURN AIR DUCT WILL CONNECT TO THE BOTTOM OF THE MIXING SECTION AND THE OUTSIDE AIR DUCT WILL CONNECT TO THE TOP OF THE MIXING SECTION. PROVIDE UNCONTROLLED DAMPERS IN THE R.A. AND O.A. DUCTS. INSTALL NEW 2-WAY CONTROL VALVES FOR THE CHILLED AND HEATING WATER COILS. INSTALL NEW 3/4" CONDENSATE DRAIN PIPING TO THE FLOOR DRAIN.
- 3 CLEAN AND RE-USE THE SIDEWALL RETURN AIR.
- 4 REPAIR THE WALL OPENING UTILIZED FOR REMOVAL AND RE-INSTALLATION OF THE AIR HANDLING UNIT. PATCH AND MATCH THE FINISH OF THE ADJACENT WALL THAT WAS NOT DAMAGED.
- 5 PROVIDE AN ALTERNATE BID TO INSTALL FABRIC DUCT AND THE CABLE SUPPORT SYSTEM FOR THE CORFLOORING SHOWN. THE BASIS OF DESIGN IS DUCTOSX, MATERIAL DURETUX WITH KEEZLES AT 45° FROM BOTTOM CENTERLINE ON EACH SIDE OF DUCT, SNOOZELACE SUSPENSION.
- 6 FABRIC DUCT CABLE SUSPENSION POINTS. PROVIDE STRUCTURAL SUPPORTS TO DISTRIBUTE THE CABLE TENSION INTO THE WALL STRUCTURE.
- 7 REPLACE THE EXISTING ROOF MOUNTED RELIEF AIR HOOD AND INSTALL A FORTORIZED DAMPER AT THE ROOF OPENING TO MODULATE TO MAINTAIN THE BUILDING PRESSURIZATION.
- 8 EXISTING VAV TERMINAL TO REMAIN.
- 9 PROVIDE A NEW 60/345 AF FUSED DISCONNECT SWITCH FOR NEW A/C UNIT. TERMINATE TO EXISTING FEEDER MADE AVAILABLE FROM DEMOLITION. PROVIDE NEW ELECTRICAL WHIP FROM NEW DISCONNECT SWITCH TO NEW A/C UNIT WITH (3#12, 2" GROUND IN 3/4" CONDUIT). FIELD VERIFY EXISTING CONDITIONS PRIOR TO FINAL ROUGH-IN.
- 10 PROVIDE A NEW 60/345 AF FUSED DISCONNECT SWITCH FOR NEW A/C UNIT. TERMINATE TO EXISTING FEEDER MADE AVAILABLE FROM DEMOLITION. PROVIDE NEW ELECTRICAL WHIP FROM NEW DISCONNECT SWITCH TO NEW A/C UNIT WITH (3#12, 2" GROUND IN 3/4" CONDUIT). FIELD VERIFY EXISTING CONDITIONS PRIOR TO FINAL ROUGH-IN.
- 11 RECONNECT EXISTING DISCONNECT AND ELECTRICAL FEEDER TO NEW AHU-1. FIELD VERIFY WIRE RACE AND DISCONNECT TO EXISTING CONDITIONS. NEW LOCATION, FIELD VERIFY EXISTING CONDITIONS PRIOR TO FINAL ROUGH-IN.

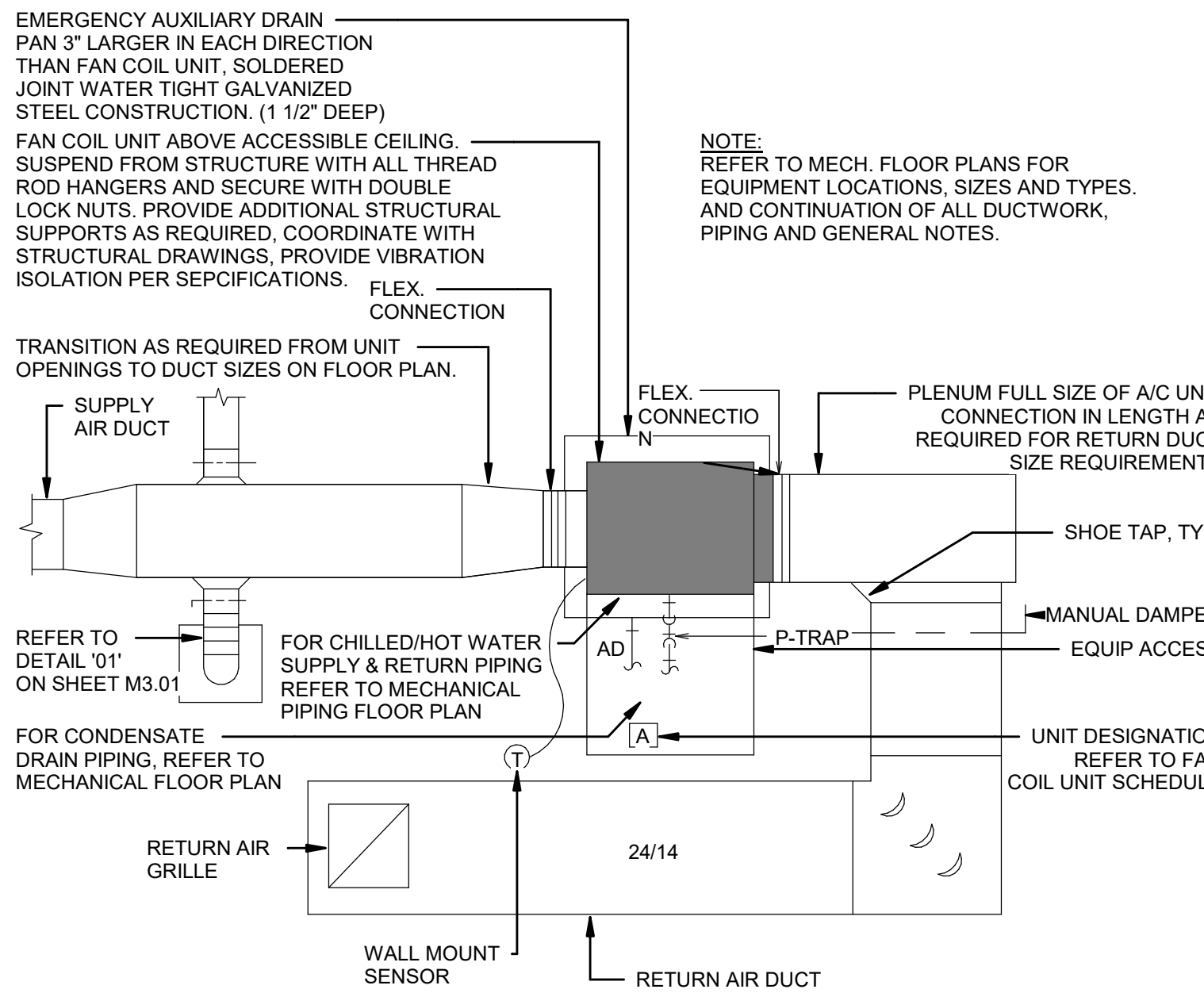


- 1 PROVIDE A MOTOR TERMINAL OVERLOAD SWITCH AND MOUNT TO THE STRUCTURE NEAR THE FAN, BUT NOT UNDER THE BLADES.
- 2
- 3 PROVIDE (1) MOCKUP OF THE HIGH VELOCITY FANS FOR APPROVAL FROM FACILITY AND CITY PRIOR TO INSTALLATION OF THE OTHER FANS. COORDINATE HVLS ROD LENGTH AND EXISTING LIGHTS. FAN SHALL BE INSTALLED BELOW LIGHTS.
- 4 INSTALL NEW DRUM LOGLOAD TO MATCH THE EXISTING DUCT SIZE. REFER TO THE AIR DEVICE SCHEDULE. ADJUST THE DISCHARGE AIR DIRECTION TO EVENLY COVER THE WINDOWS.
- 5 INSTALL NEW DRUM LOGLOAD TO MATCH THE EXISTING DUCT SIZE. REFER TO THE AIR DEVICE SCHEDULE. ADJUST THE DISCHARGE AIR DIRECTION TO EVENLY COVER THE ROOM.
- 6 INSTALL A LOCKABLE COVER OVER THE CONTROL PANEL FOR THE HVLS FANS. THE CONTROL PANEL IS TO INDIVIDUALLY OPERATE ALL FANS. PROVIDE A NEW 120A CIRCUIT BREAKER IN EXISTING PANEL LV2D3 TO FEED HVLS FANS WITH 2#12, #2 GROUND IN 3/4" CONDUIT.
- 7 REPAIR GYP CEILING AND WALLS DAMAGED BY THE CEILING CASSETTE INSTALLATION. MATCH THE ADJACENT FINISH AND COLOR. PAINT THE WALLS CORNER TO CORNER AND THE ENTIRE CEILING TO AVOID COLOR MATCHING ISSUES.
- 8 INSTALL NEW 36"x24"-B RETURN AIR GRILLE 1'-0" A.F.F.

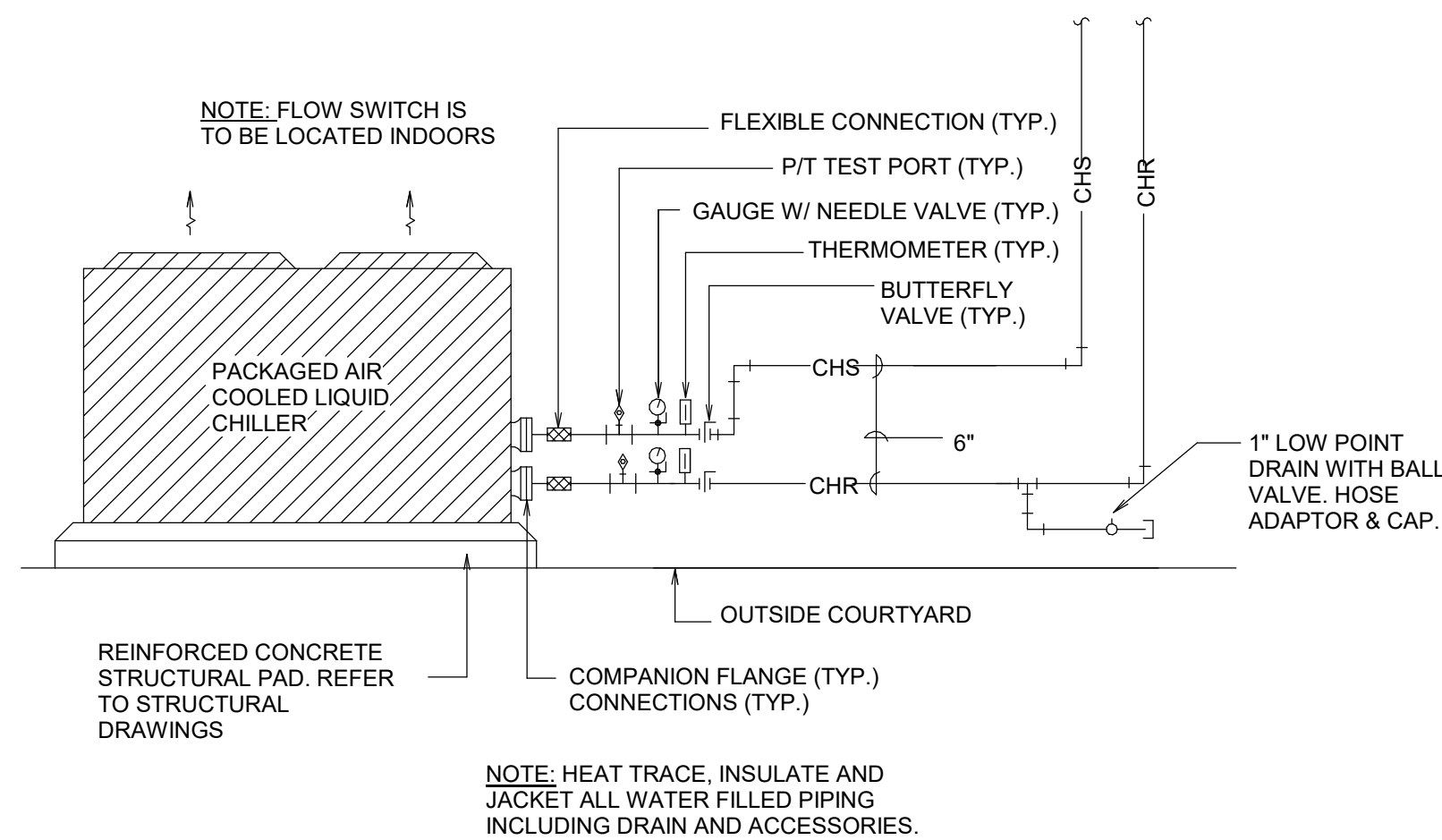
- GENERAL NOTES:
- FOR ROUND DUCT USE STRAIGHT SPIN-IN TYPE FITTINGS WITH SEPARATE LOCKING HANDLE BALANCING DAMPERS IN ALL AREAS WITH LAY-IN CEILINGS.
 - IN AREAS WITH HARD CEILINGS, USE SPIN-IN FITTINGS AND DAMPERS WITH REMOTE YOUNG REGULATORS LOCATED ON THE CEILING. ALTERNATELY PROVIDE CEILING ACCESS DOORS LARGE ENOUGH TO FACILITATE AIR BALANCING. THE NUMBER OF ACCESS PANELS SHALL BE MINIMIZED AND CONSOLIDATED. ALL ACCESS PANEL LOCATIONS SHALL BE APPROVED BY THE ARCHITECT PRIOR TO INSTALLATION. MAXIMUM LENGTH OF FLEXIBLE DUCT USED SHALL NOT EXCEED 6'-0".
 - RIGID AND FLEX DUCT DIAMETER TO BE EQUAL TO NECK SIZE SHOWN UNLESS SPECIFICALLY NOTED OTHERWISE.
 - FLEXIBLE DUCT DROPS SHOULD BE STRAIGHT DOWN TO THE DIFFUSER NECK WITH NO MORE THAN A 10' OFFSET FROM THE VERTICAL. PROVIDE A SMOOTH RADIUS TURN BEFORE THE DROP AS DETAILED.



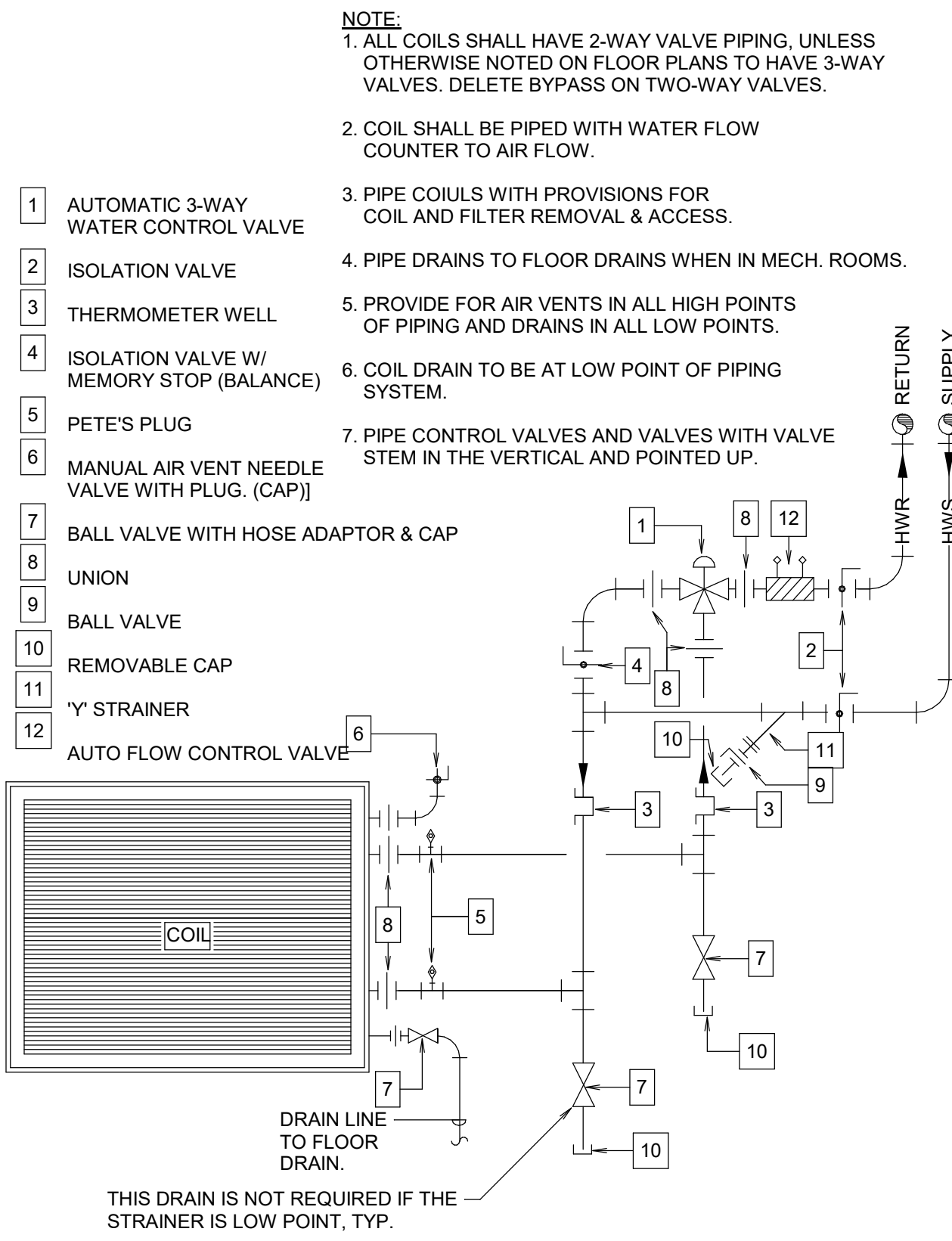
1 SUPPLY DIFFUSER DETAILS
NO SCALE



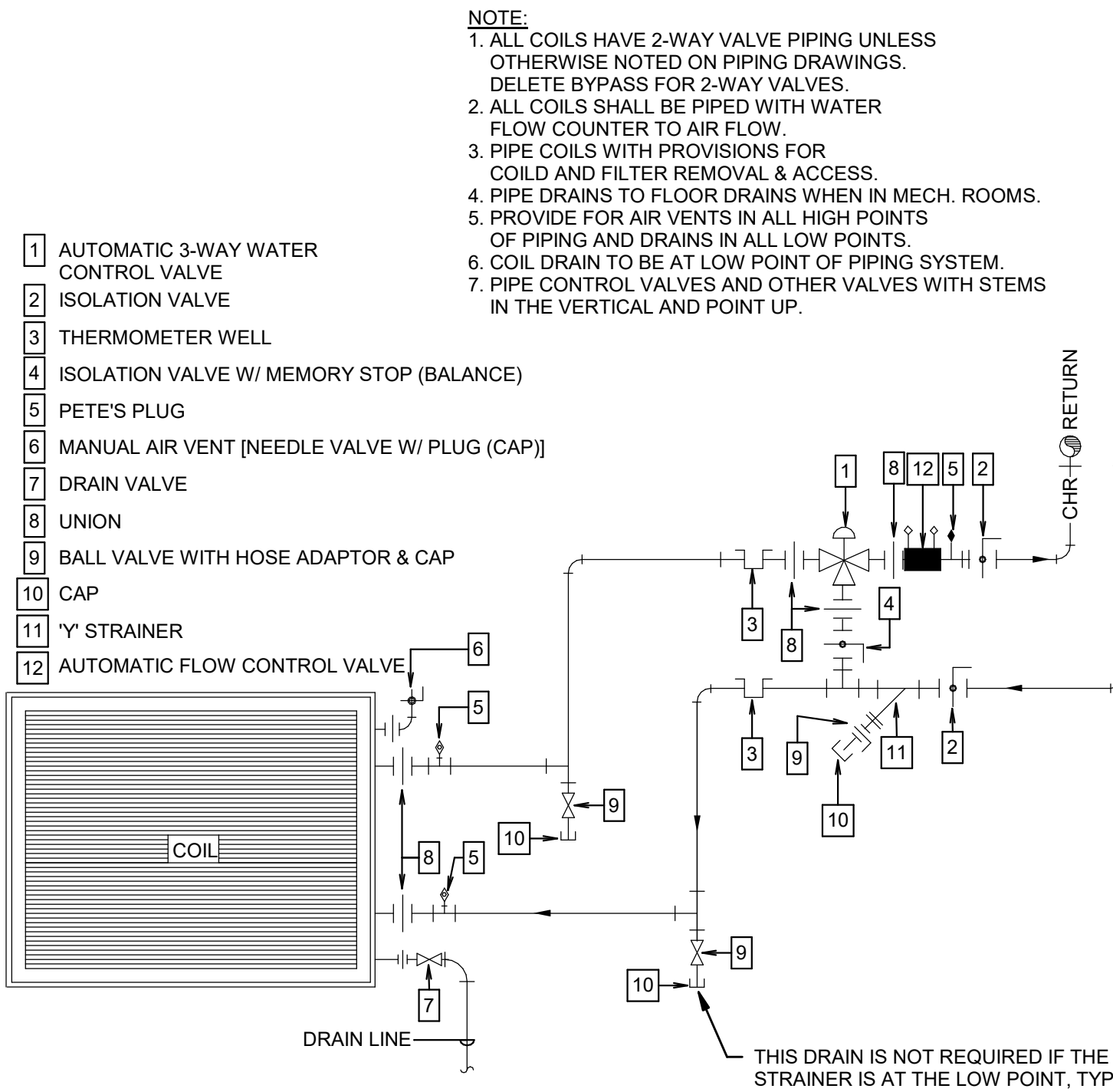
4 TYPICAL FAN COIL A/C UNIT DETAIL
NO SCALE



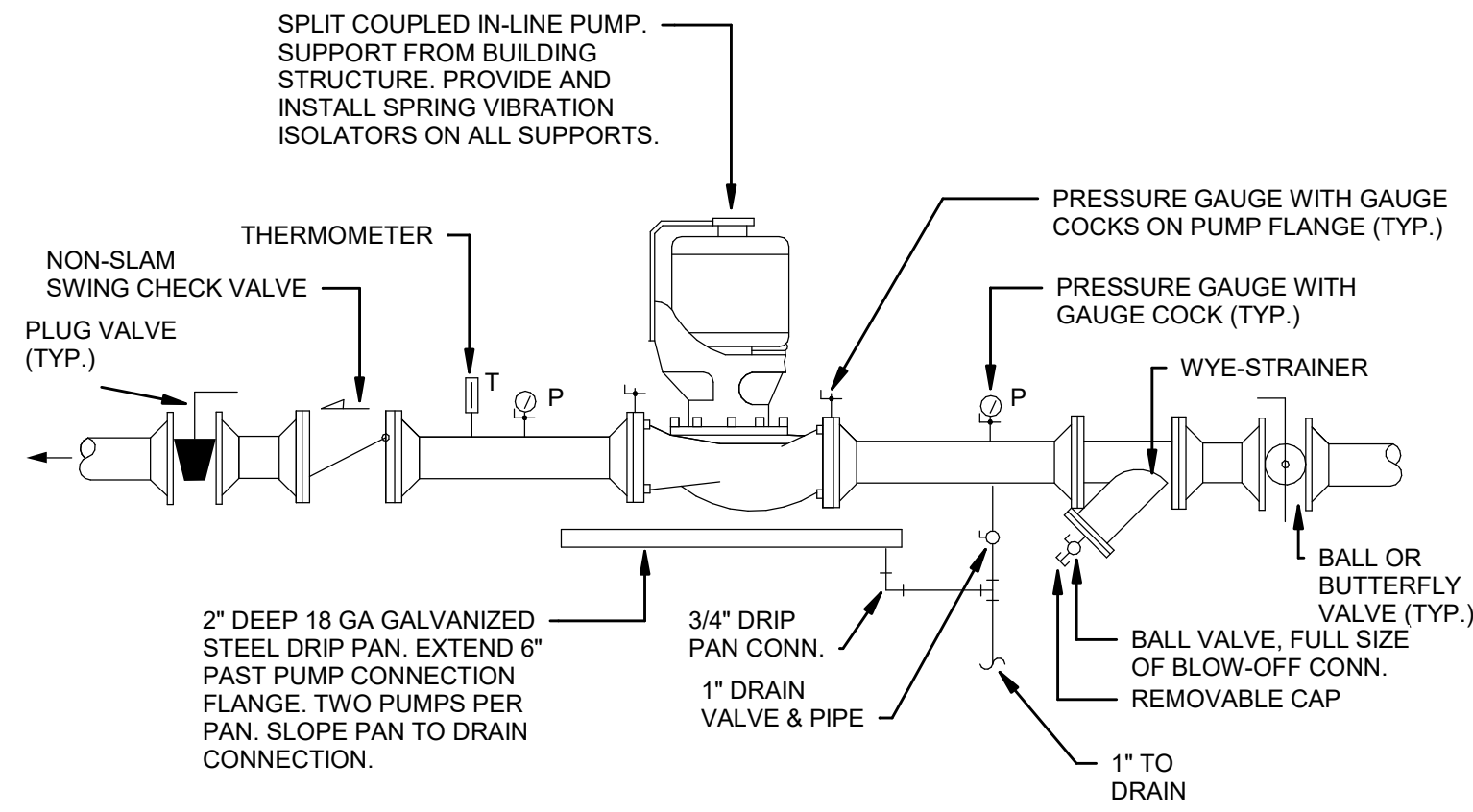
7 AIR COOLED CHILLER DETAIL
NO SCALE



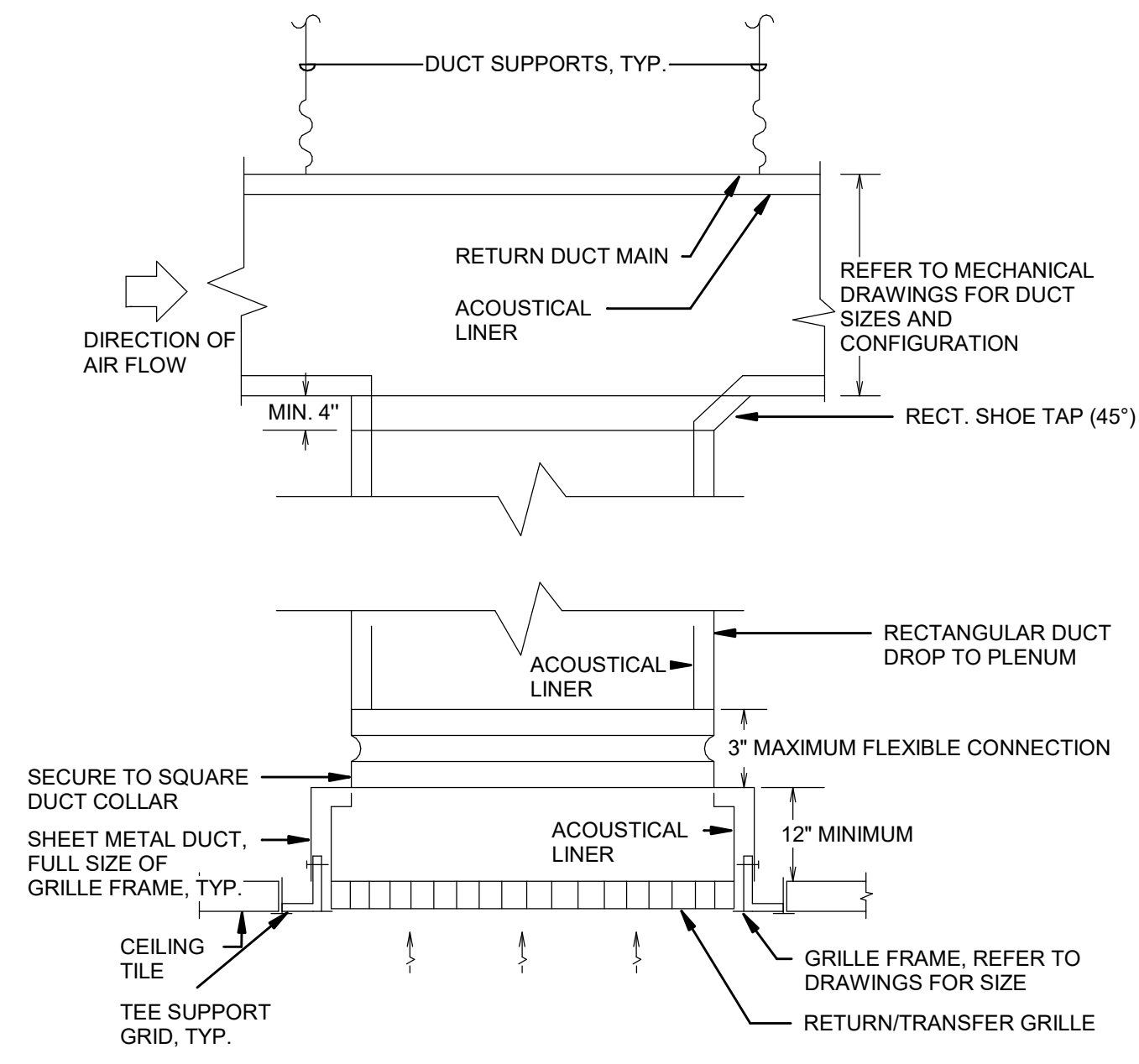
2 SINGLE HEATING WATER COIL WITH 3-WAY VALVE - AHU
NO SCALE



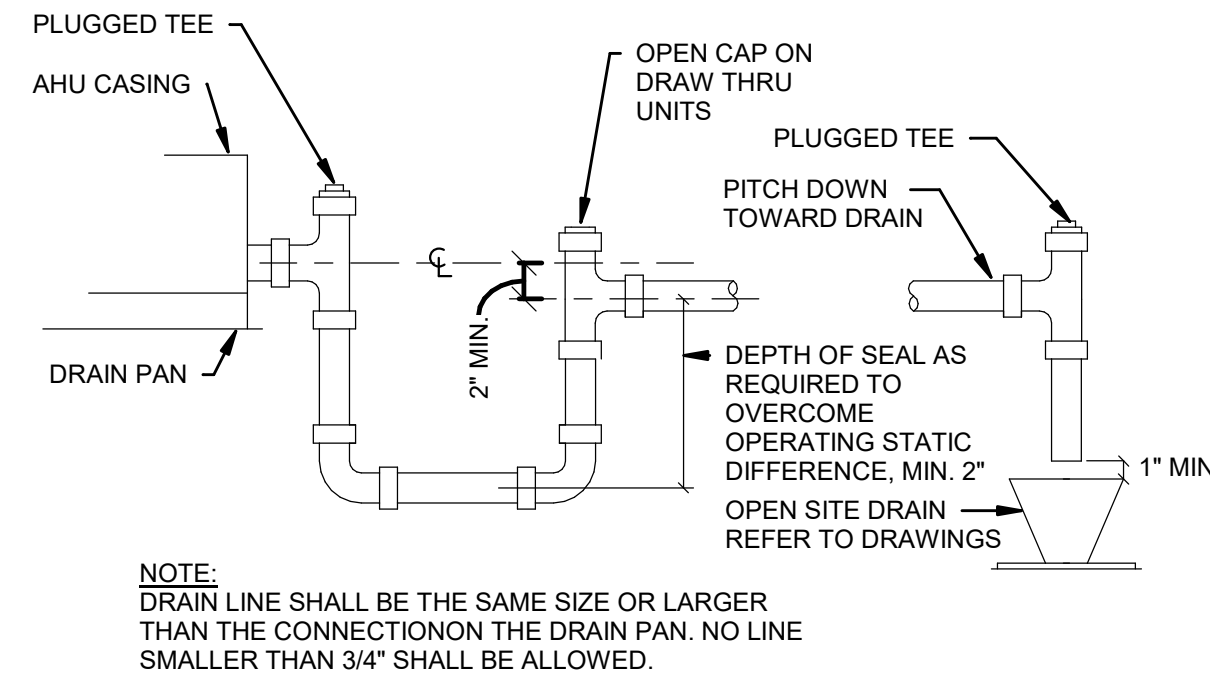
5 SINGLE CHILLED WATER COIL WITH 3-WAY VALVE - AHU
NO SCALE



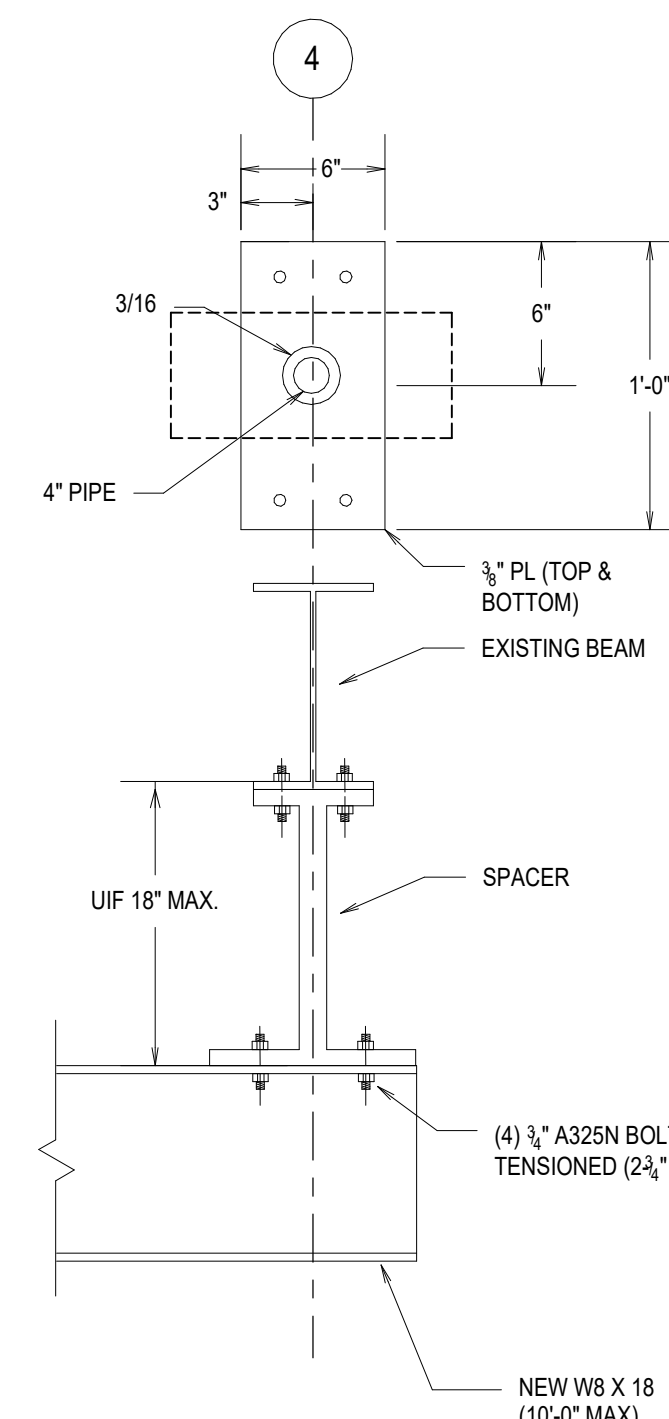
8 IN-LINE CIRCULATING PUMP DETAIL
NO SCALE



3 RETURN/TRANSFER AIR GRILLE (RECTANGULAR DUCT) DETAIL
NO SCALE



6 TYPICAL AHU/FCU CONDENSATE DRAIN TRAP DETAIL
NO SCALE



9 HVLS FAN SUPPORT & SPACER DETAIL
NO SCALE

ARCHITECT

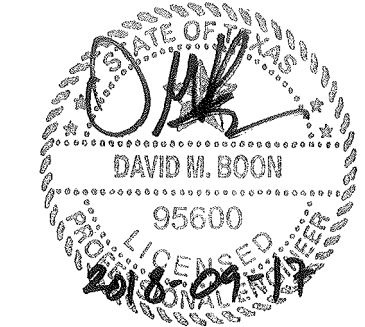


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REGISTRATION

ENGINEER
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P.E. # 88850
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DRAWING HISTORY

| NO. | DATE | DESCRIPTION |
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| 1 | 9/17/2018 | ISSUE FOR BID |
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KEY PLAN

PROJECT NAME
ADDISON
ATHLETIC CLUB
- HVAC
IMPROVEMENTS

PROJECT
LOCATION
3900 BELTWAY DR.
ADDISON, TX 75001

PROJECT NUMBER
17116.00

SHEET TITLE
DETAILS

SHEET NUMBER

ME-31

