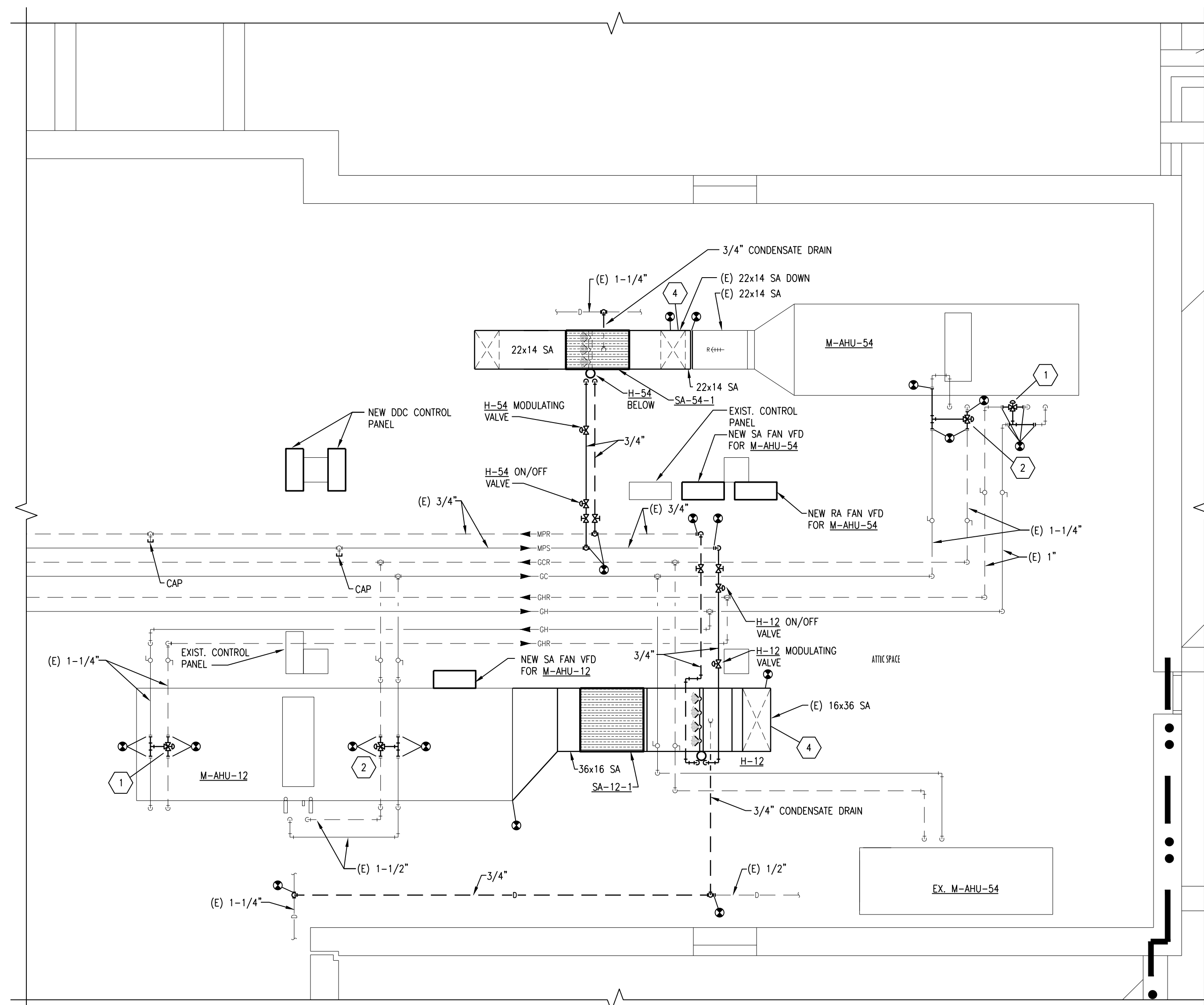
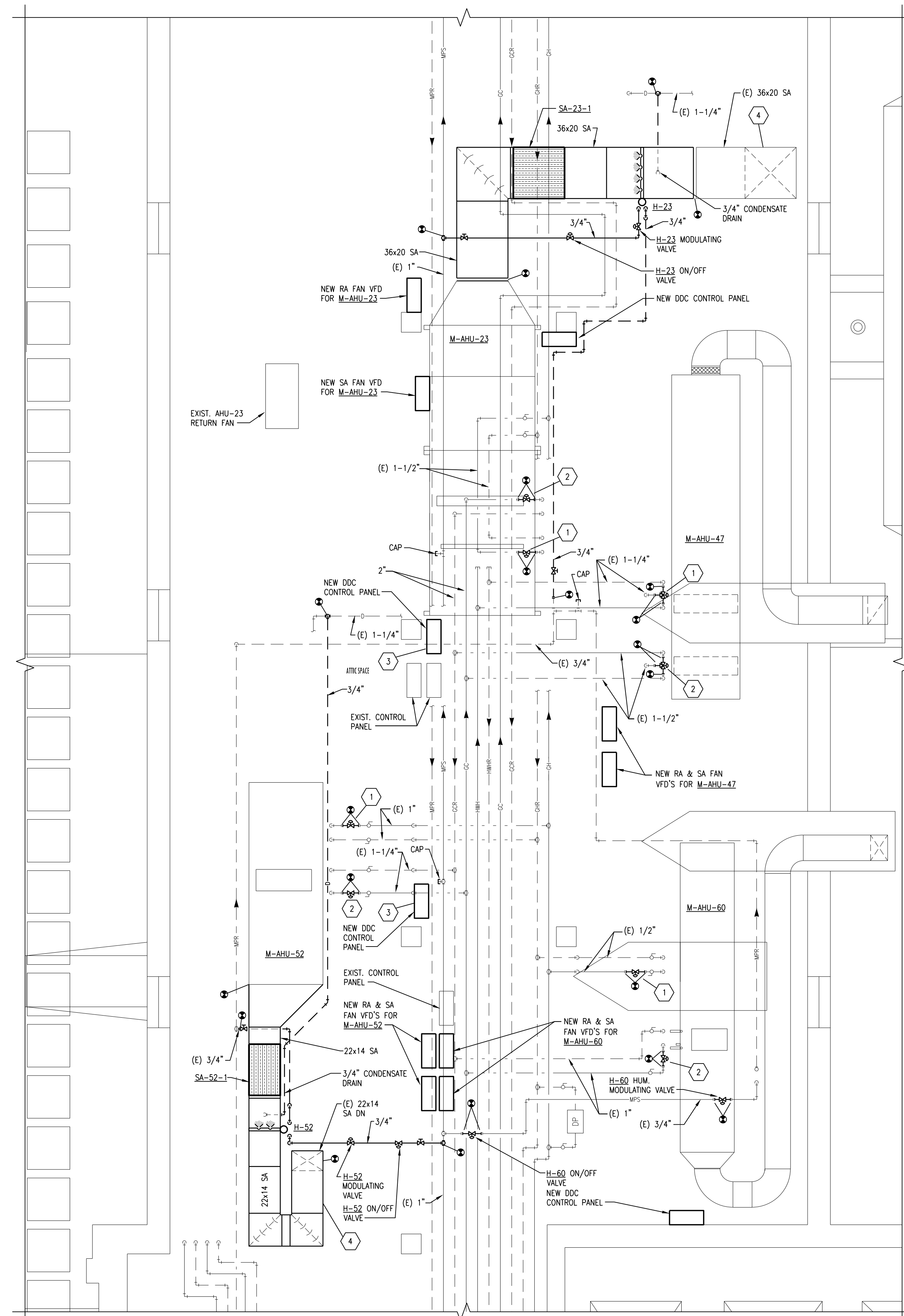


3 EXISTING LAYOUT ATTIC SPACE REMODELING PLAN
SCALE: 1/4" = 1'-0"



2 EXISTING LAYOUT ATTIC SPACE REMODELING PLAN
SCALE: 1/4" = 1'-0"



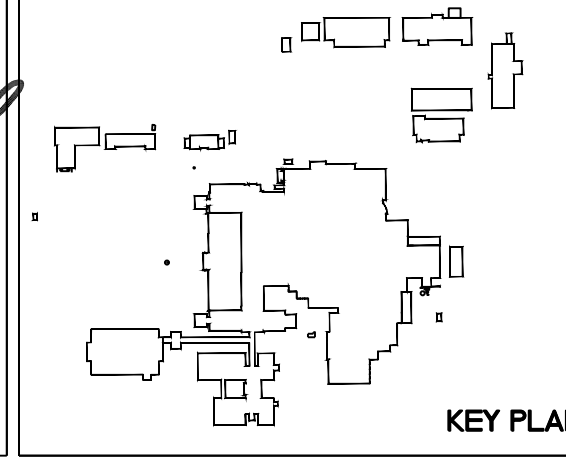
1 EXISTING LAYOUT ATTIC SPACE REMODELING PLAN
SCALE: 1/4" = 1'-0"

- AIR HANDLER PHASING NOTES:**
- ALL AIR HANDLER REPLACEMENTS SHALL BE PERFORMED IN APRIL/MAY OR SEPTEMBER/OCTOBER MONTHS IN CAREFUL COORDINATION WITH THE OWNER. PROVIDE A MINIMUM OF 2 WEEKS NOTICE PRIOR TO BEGINNING WORK.
 - FOR TEMPORARY AIR HANDLER OPERATION, PROVIDE A TEMPORARY FAN EQUAL TO THE UNIT AIRFLOW/HORSE POWER, AND HEPA FILTER TO BE MOUNTED TO THE SUPPLY DUCTWORK PRIOR TO REMOVING UNIT. REFER TO FLOOR PLANS FOR SUGGESTED TEMPORARY SUPPLY FAN LOCATION. FAN SHALL RUN CONTINUOUSLY. MAINTAIN THE MECHANICAL ROOM TEMPERATURE AT A MINIMUM OF 55 DEGREES AND MAXIMUM OF 70 DEGREES DURING AHU CHANGE OUT USING EXISTING HEATING UNITS OR TEMPORARY COOLING/HEATING UNITS. OUTSIDE AIR, RETURN AIR, RELIEF AIR, AND SUPPLY AIR DUCTS SHALL BE LEFT OPEN TO USE THE MECHANICAL ROOM AS A PLENUM.
 - ALL UNIT SHUTDOWN WORK SHALL BE COMPLETED DURING WEEKEND AND EVENING HOURS. REPLACEMENT OF UNIT SHALL BE COMPLETED AS QUICKLY AS POSSIBLE WITH MULTIPLE SHIFTS REQUIRED TO EXPEDITE WORK. ALL CONTROLS WORK THAT CAN BE COMPLETED BEFORE AND SHALL BE COORDINATED. WORK SHALL BE COMPLETED DURING SPRING, FALL, OR WINTER MONTHS.
 - DISASSEMBLE NEW AIR HANDLERS TO THEIR SMALLEST COMPONENTS AS REQUIRED TO FIT THROUGH EXISTING DOORS. TEMPORARILY REMOVE EXISTING MECHANICAL ROOM DOORS AS NECESSARY.

- AIR HANDLER CONTROLS & HUMIDIFIER RELOCATION PHASING NOTES:**
- MECHANICAL CONTRACTOR SHALL INSTALL ALL NEW CONTROLS DEVICES, PANEL, WIRING, CONDUIT, ETC. AS MUCH AS POSSIBLE BEFORE SYSTEM SWITCHOVER TO NEW CONTROLS SYSTEM.
 - ALL CONTROLS SYSTEM SWITCHOVERS SHALL BE CAREFULLY COORDINATED WITH THE VA AND SHALL OCCUR DURING EVENING OR WEEKEND HOURS AND SHALL BE KEPT TO A MINIMUM AMOUNT OF TIME. PROVIDE A MINIMUM OF 2 WEEKS OF ADVANCE NOTICE BEFORE STARTING WORK. SWITCHOVERS SHALL OCCUR AT THE BEGINNING OF THE WEEK AND THE UNIT SHALL BE MONITORED ALL WEEK LONG TO PREVENT ISSUES WITH TEMPERATURE CONTROL.
 - INSTALL ALL NEW VALVES, PIPING, CONTROLS, ETC. AS MUCH AS POSSIBLE PRIOR TO RELOCATING EXISTING HUMIDIFIERS.
 - ALL WORK TO RELOCATE THE HUMIDIFIERS OR ATTENUATORS SHALL TAKE PLACE DURING EVENING OR WEEKEND HOURS WITH A MINIMUM 2 WEEK NOTICE GIVEN TO THE OWNER BEFORE STARTING WORK AND SHALL BE KEPT TO A MINIMUM AMOUNT OF TIME. OBTAIN ALL FIELD MEASUREMENTS AND FABRICATE DUCTWORK PRIOR TO DEMOLITION TO MINIMIZE DOWNTIME. WORK TO OCCUR DURING NON-HEATING MONTHS.
 - FOR ALL AIR HANDLERS SERVING AREAS THAT OPERATE 24/7, PROVIDE TEMPORARY DUCTWORK TO KEEP THE UNIT OPERATIONAL DURING HUMIDIFIER AND DUCTWORK MODIFICATIONS.

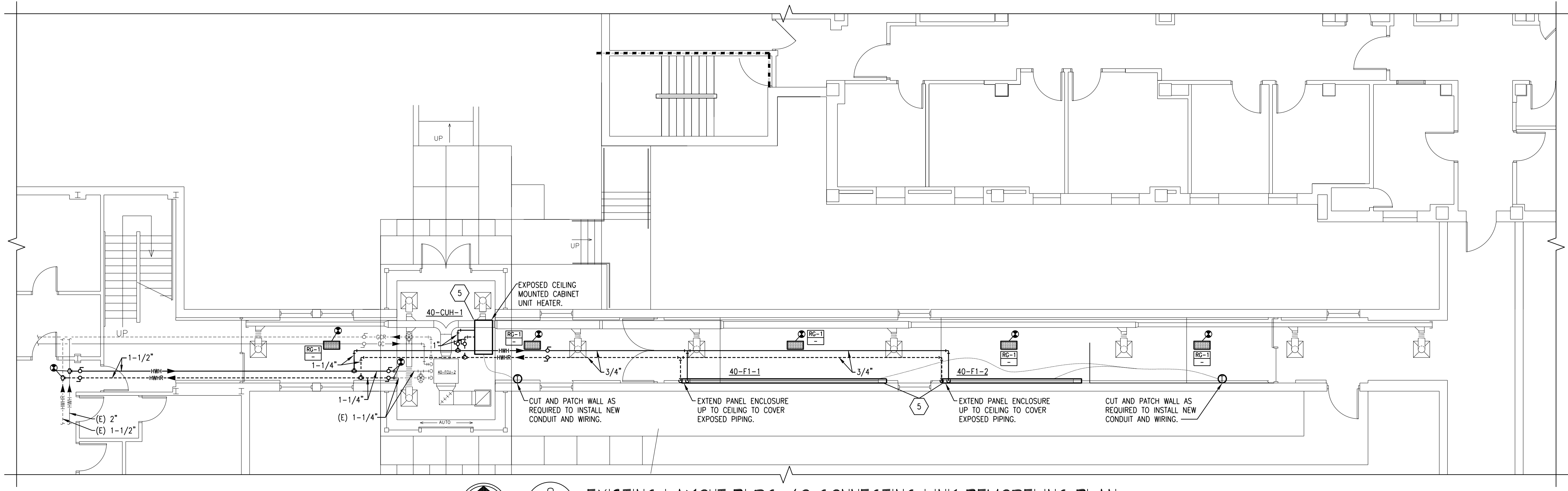
- MECHANICAL NOTES:**
- CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS PRIOR TO BEGINNING WORK AND NOTIFY THE ARCHITECT/ENGINEER OF ANY DISCREPANCIES BETWEEN THE "AS-BUILT" CONDITIONS AND THESE DRAWINGS.
 - COORDINATE ALL HVAC PIPING AND DUCTWORK INSTALLATION WITH GENERAL, PLUMBING, FIRE PROTECTION, AND ELECTRICAL CONTRACTORS. INSTALL ALL HVAC PIPING AND DUCTWORK AS HIGH AS POSSIBLE. PROVIDE ALL NECESSARY OFFSETS (DROPS AND RISERS) TO KEEP HVAC PIPING AND DUCTWORK TIGHT TO THE STRUCTURE ABOVE AND INSTALLATION BY ALL TRADES. OFFSET HVAC PIPING AND DUCTWORK TO AVOID BEAMS.
 - THIS CONTRACTOR SHALL OPEN ALL EXISTING WALLS AND/OR CEILING FOR INSTALLATION OF NEW HVAC PIPING AND VENTILATION DUCTWORK, EQUIPMENT, ETC. AS REQUIRED. PATCH WALLS AND/OR CEILING TO MATCH EXISTING.
 - MAINTAIN 3'-0" CLEAR SPACE IN FRONT OF ALL ELECTRICAL, CONTROL, AND ACCESS PANELS FOR ACCESSIBILITY.
 - ALL SHUT-OFF VALVES, CONTROL VALVES, STRAINERS, COMPRESSORS, ETC. SHALL BE INSTALLED IN ACCESSIBLE CEILING. VALVES SHALL BE LOCATED NOT MORE THAN 2 FEET ABOVE ACOUSTICAL CEILING.
 - PROVIDE 1/2" DRAIN VALVE AT ALL LOW POINTS OF EACH SYSTEM TO ENABLE COMPLETE DRAINAGE. PROVIDE 1/2" VENT VALVES AT ALL HIGH POINTS OF EACH SYSTEM TO ENABLE COMPLETE VENTING.
 - ALL OPEN ENDS OF DUCTS SHALL BE CAPPED AT THE END OF CONSTRUCTION EACH DAY. REFER TO HVAC PIPING DETAILS ON SHEET HIF FOR ADDITIONAL INFORMATION ON INDIVIDUAL TERMINAL DEVICES, COILS AND PIPE PENETRATIONS.
 - ALL NEW PIPING SHALL BE INSTALLED AS HIGH AS POSSIBLE TO AVOID TRIPPING HAZARDS IN WALKWAYS BUT AT A HEIGHT TO REMAIN ACCESSIBLE. KEEP ALL EQUIPMENT ACCESS PATHS CLEAR.
 - REFER TO SPEC SECTION 23 09 23 FOR AHU SAFETY WIRING FOR VFD'S.
 - INSTALL NEW HEATING COIL CONTROL VALVE.
 - INSTALL NEW COOLING COIL CONTROL VALVE.
 - PROVIDE UNISTRUT SUPPORTS TO MOUNT NEW CONTROL PANELS.
 - RELOCATE EXISTING HIGH LIMIT HUMIDITY SENSOR ON SUPPLY DUCT AS REQUIRED TO MAINTAIN 10-FEET FROM NEW HUMIDIFIER LOCATION INCLUDING ALL WIRING, CONDUITS, ETC. PATCH AND INSULATE EXISTING DUCTWORK WHERE SENSORS ARE REMOVED AND AT NEW SENSOR LOCATION.

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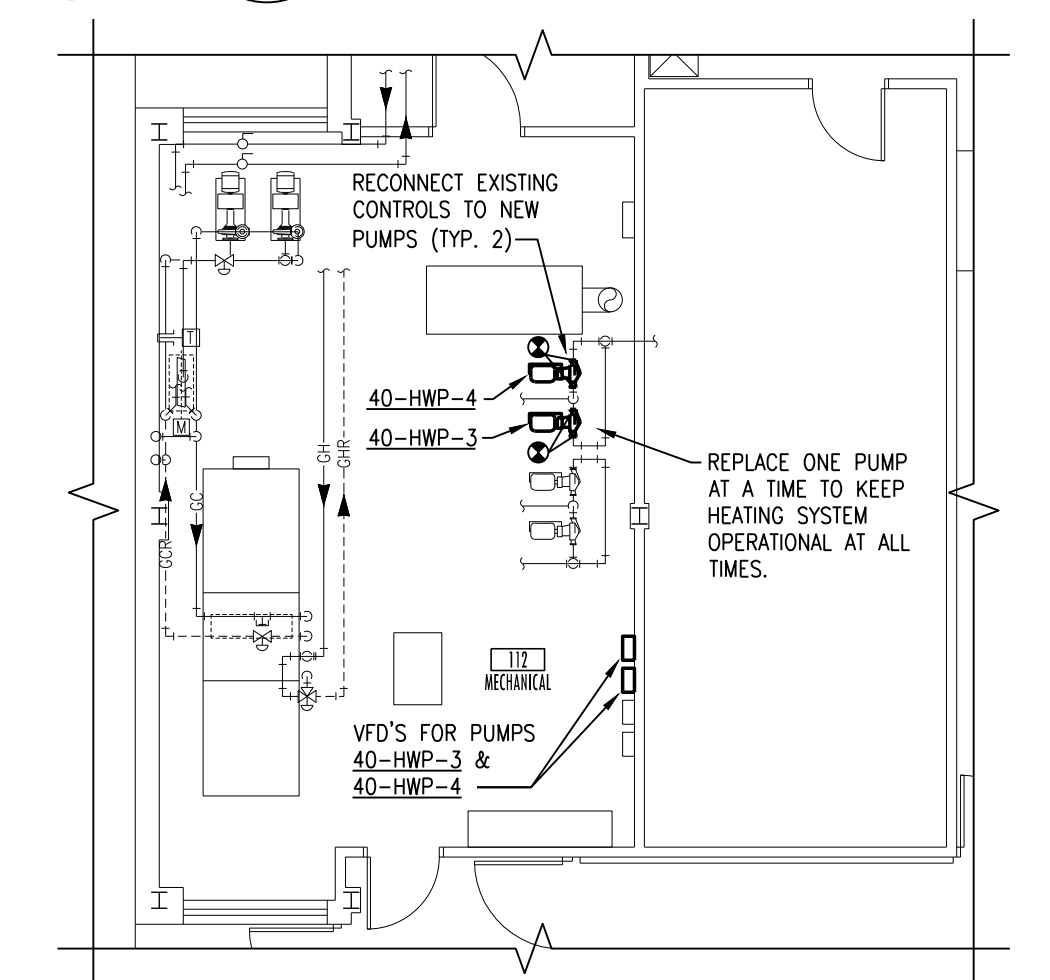


Drawing Title ATTIC SPACE LARGE SCALE REMODELING PLANS		Project Title REPLACE OR UPGRADE HVAC SYSTEM COMPONENTS		Date SEPT. 14, 2016
Project Phase PHASE 1		Scale AS SHOWN		Drawing No. H1.4
VA Project No. 437-13-111	Contract No. VA263-P-218 VA263-C-	Designed By JP	Checked By JP	
Building No. VAMC CAMPUS	AutoCAD File Name 2022213-P14.dwg	Location FARGO VA HEALTH CARE SYSTEM FARGO, NORTH DAKOTA		Dwg. 23 of 66

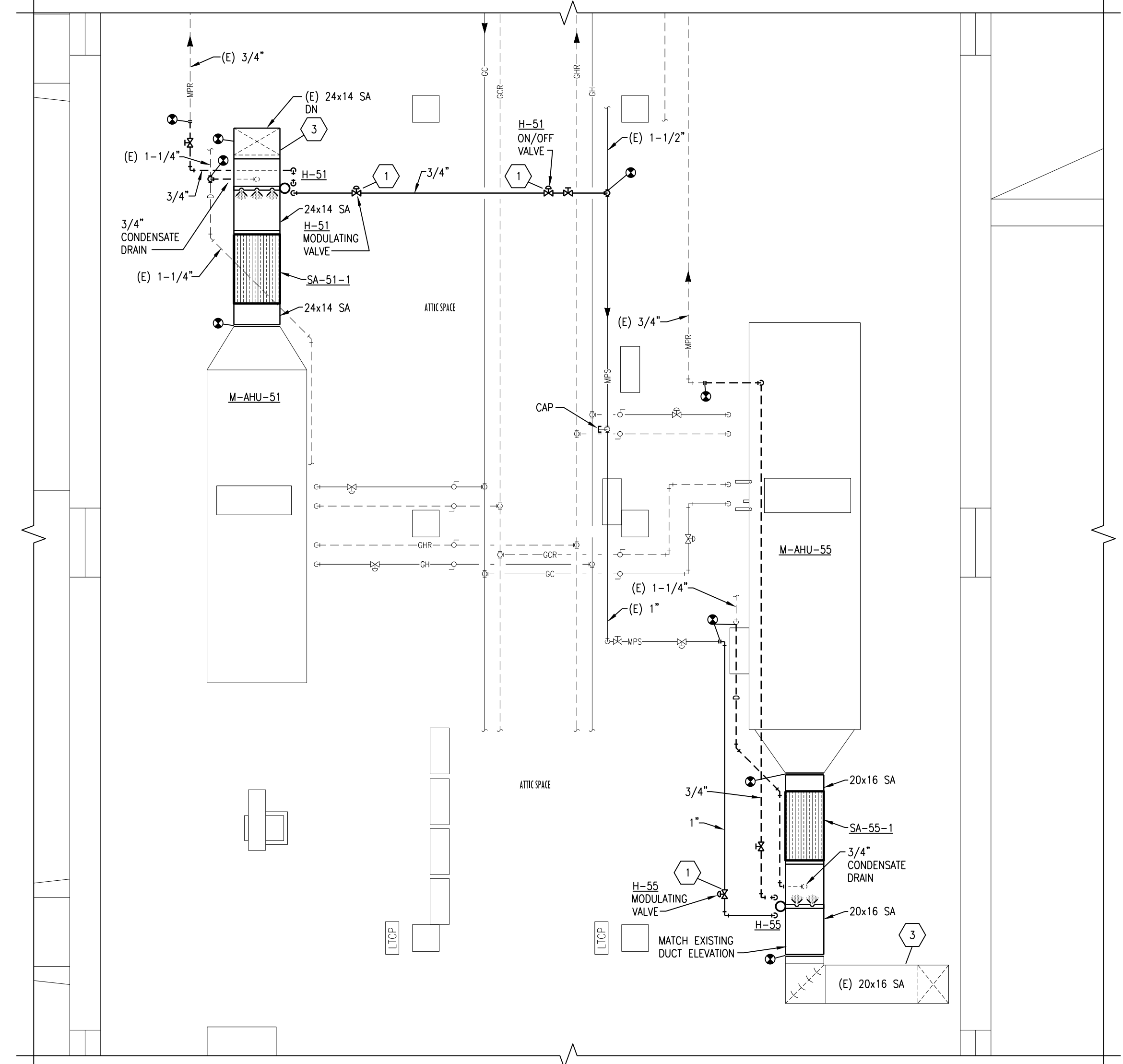
Department of Veterans Affairs



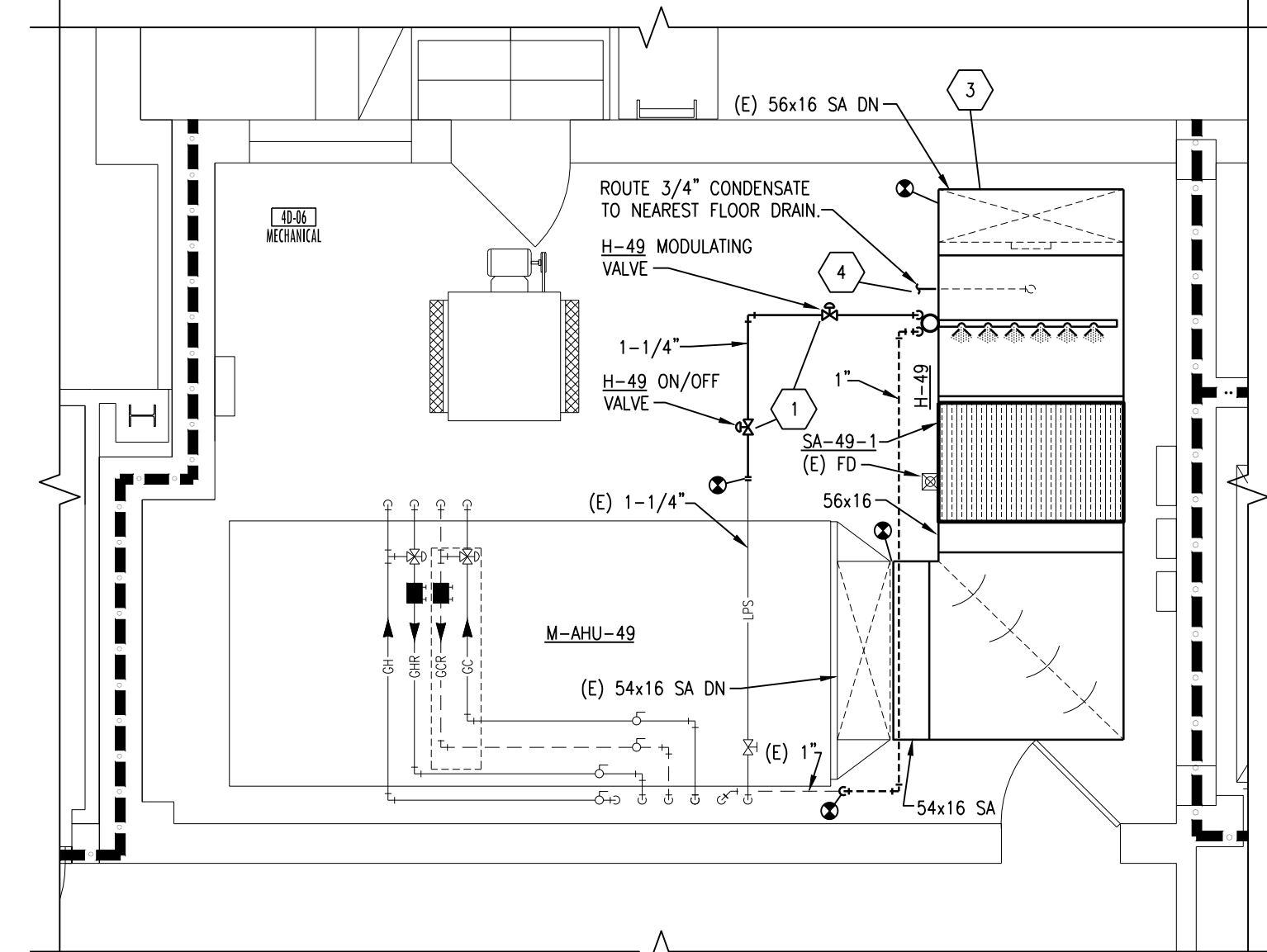
8 EXISTING LAYOUT BLDG. 40 CONNECTING LINK REMODELING PLAN
SCALE: 1/8" = 1'-0"



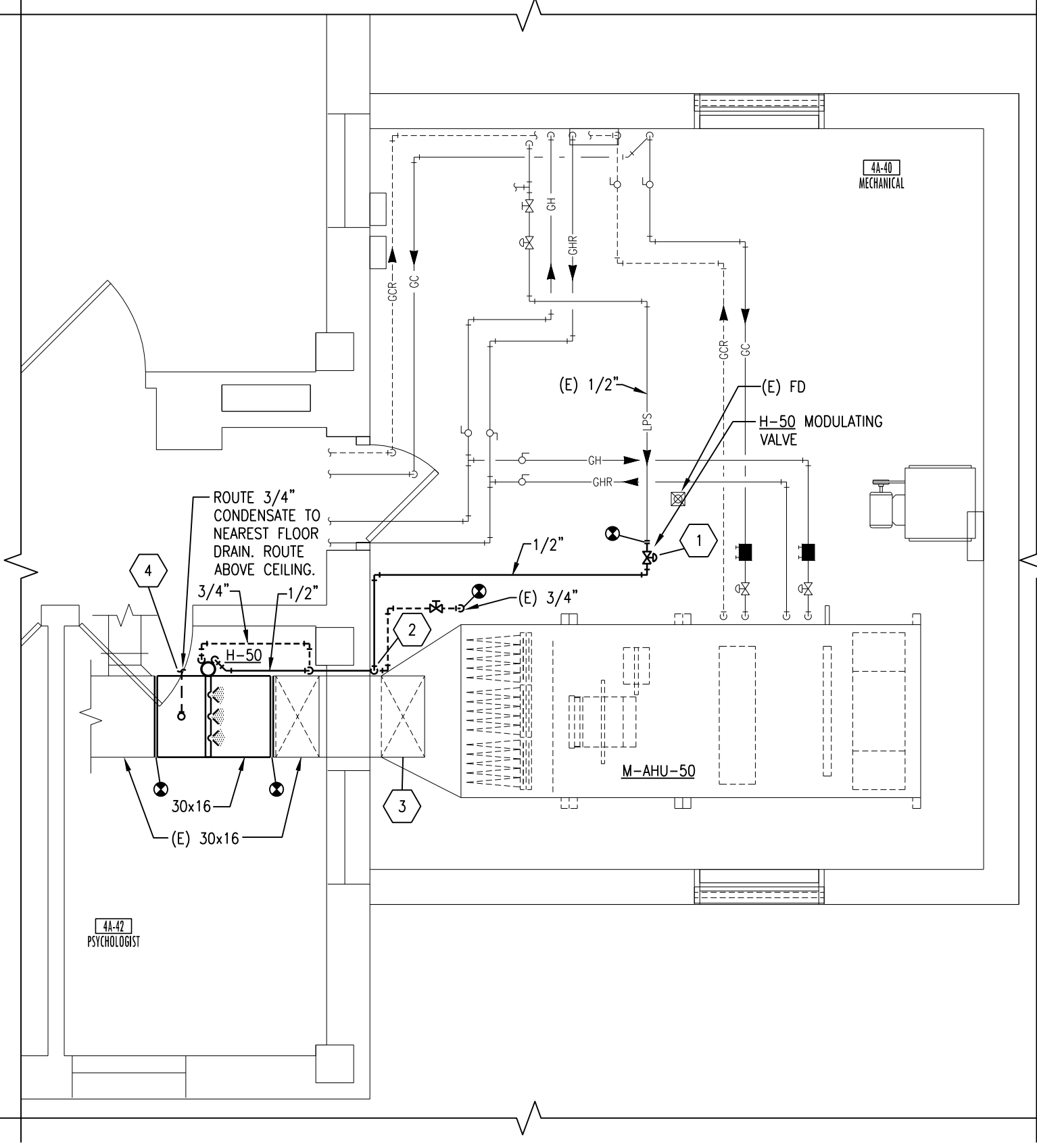
7 EXISTING LAYOUT BLDG 40 REMODELING PLAN
SCALE: 1/8" = 1'-0"



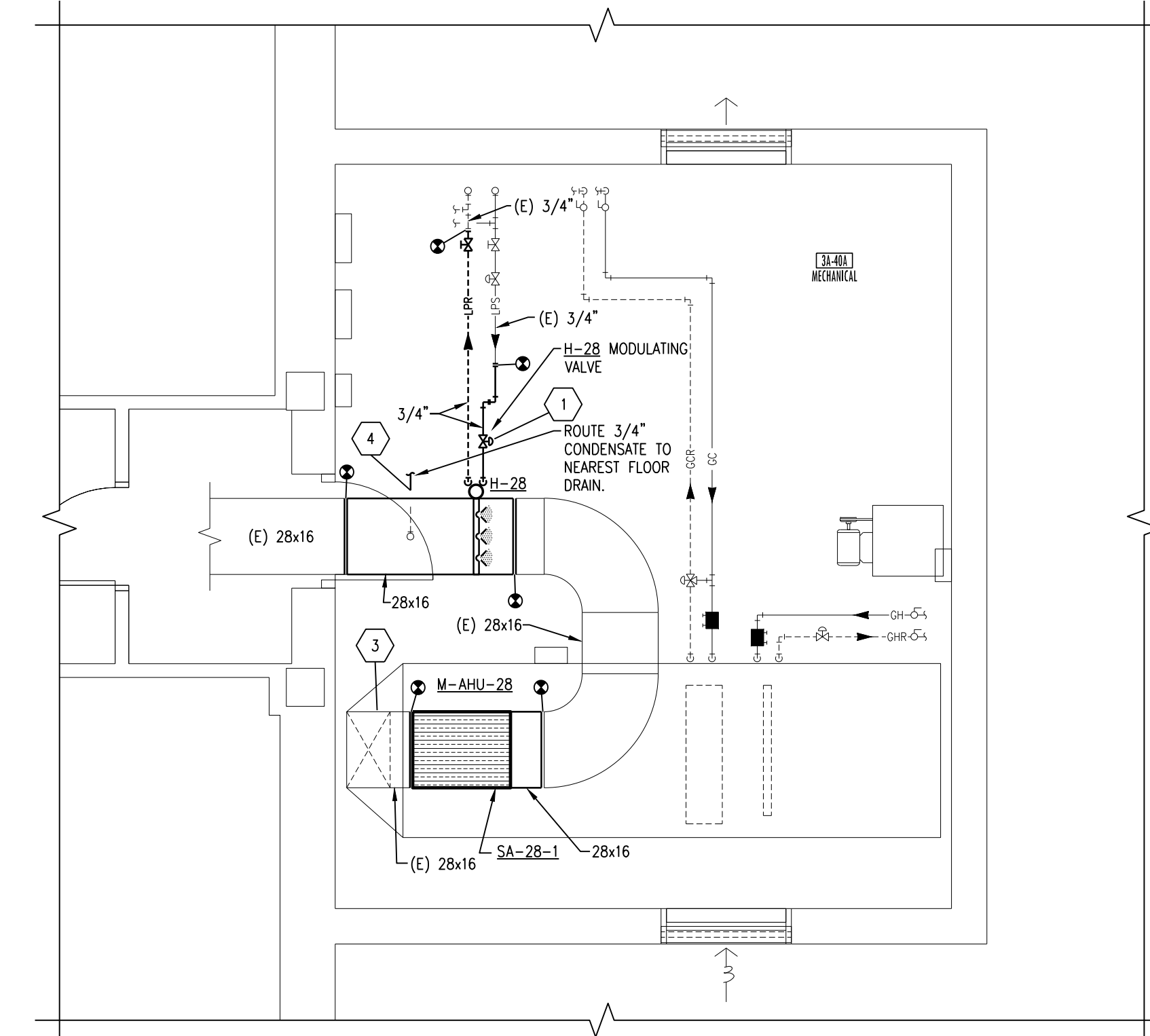
6 EXISTING LAYOUT ATTIC SPACE REMODELING PLAN
SCALE: 1/4" = 1'-0"



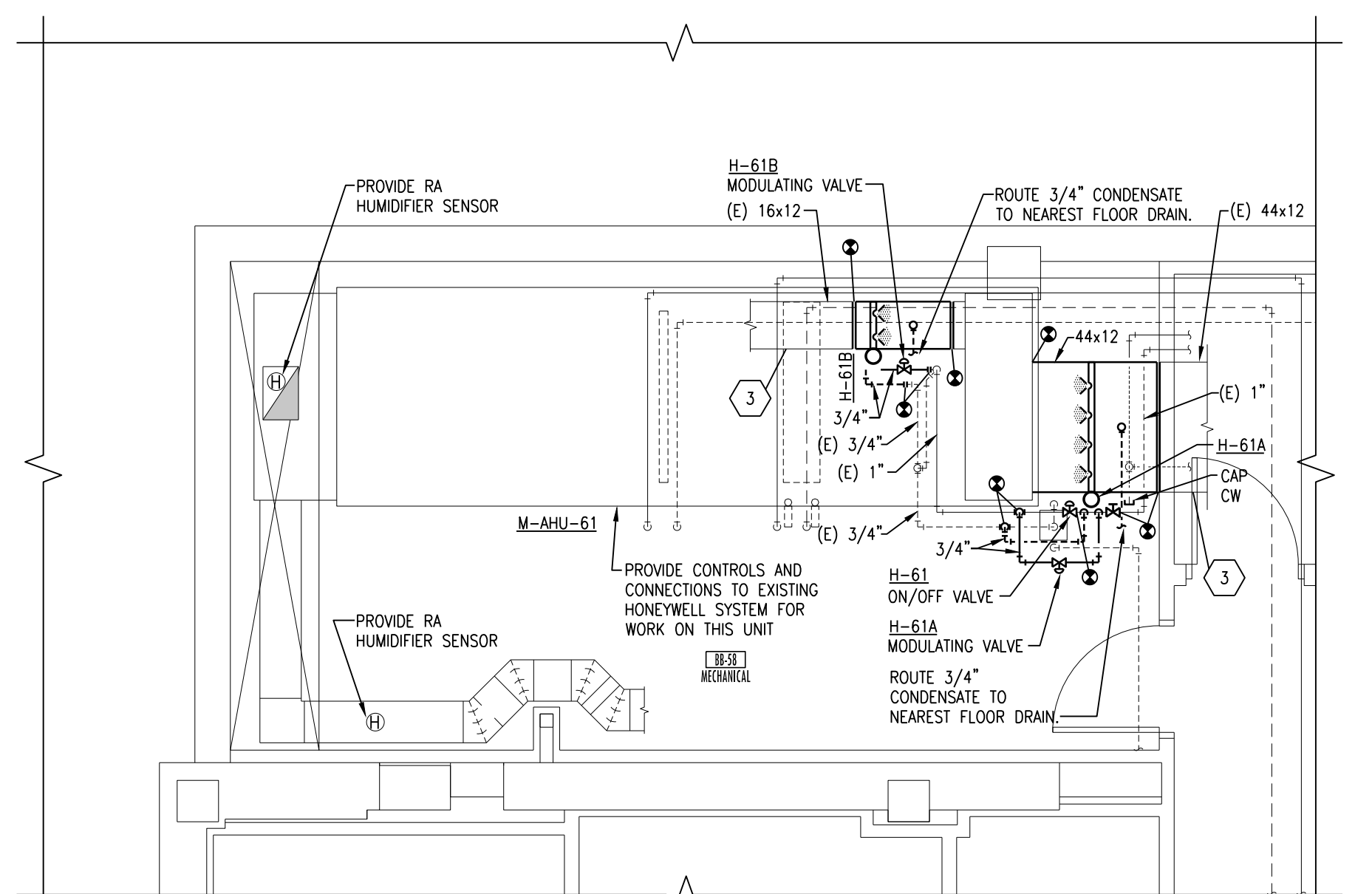
5 EXISTING LAYOUT 4D-06 REMODELING PLAN
SCALE: 1/4" = 1'-0"



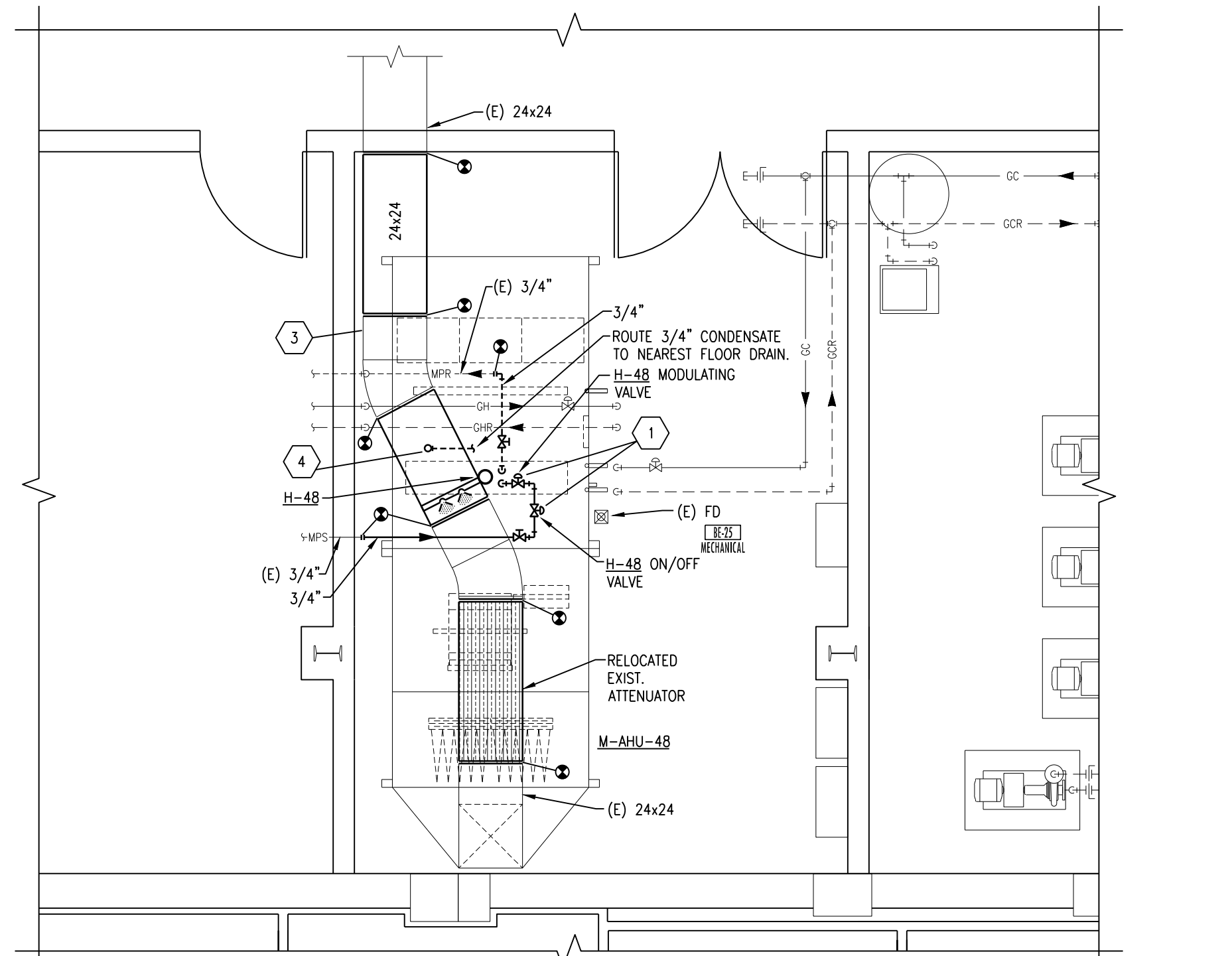
4 EXISTING LAYOUT 4A-40 REMODELING PLAN
SCALE: 1/4" = 1'-0"



3 EXISTING LAYOUT 3A-40A REMODELING PLAN
SCALE: 1/4" = 1'-0"



2 EXISTING LAYOUT BB-58 REMODELING PLAN
SCALE: 1/4" = 1'-0"



1 EXISTING LAYOUT BE-25 REMODELING PLAN
SCALE: 1/4" = 1'-0"

AIR HANDLER PHASING NOTES:

- ALL AIR HANDLER REPLACEMENTS SHALL BE PERFORMED IN APRIL/MAY OR SEPTEMBER/OCTOBER MONTHS IN CAREFUL COORDINATION WITH THE OWNER. PROVIDE A MINIMUM OF 2 WEEKS NOTICE PRIOR TO BEGINNING WORK.
- FOR TEMPORARY AIR HANDLER OPERATION, PROVIDE A TEMPORARY FAN EQUAL TO THE UNIT AIRFLOW/HORSE POWER, AND HEPA FILTER TO BE MOUNTED TO THE SUPPLY DUCTWORK PRIOR TO REMOVING UNIT. REFER TO FLOOR PLANS FOR SUGGESTED TEMPORARY SUPPLY FAN LOCATION. FAN SHALL RUN CONTINUOUSLY. MAINTAIN THE MECHANICAL ROOM TEMPERATURE AT A MINIMUM OF 55 DEGREES AND MAXIMUM OF 70 DEGREES DURING AHU CHANGE OUT USING EXISTING HEATING UNITS OR TEMPORARY COOLING/HEATING UNITS. OUTSIDE AIR, RETURN AIR, RELIEF AIR, AND SUPPLY AIR DUCTS SHALL BE LEFT OPEN TO USE THE MECHANICAL ROOM AS A PLENUM.
- ALL UNIT SHUTDOWN WORK SHALL BE COMPLETED DURING WEEKEND AND EVENING HOURS. REPLACEMENT OF UNIT SHALL BE COMPLETED AS QUICKLY AS POSSIBLE WITH MULTIPLE SHIFTS REQUIRED TO EXPEDITE WORK. ALL CONTROLS WORK THAT CAN BE COMPLETED BEFORE AND SHALL BE COORDINATED. WORK SHALL BE COMPLETED DURING SPRING, FALL, OR WINTER MONTHS.
- DISASSEMBLE NEW AIR HANDLERS TO THEIR SMALLEST COMPONENTS AS REQUIRED TO FIT THROUGH EXISTING DOORS. TEMPORARILY REMOVE EXISTING MECHANICAL ROOM DOORS AS NECESSARY.

AIR HANDLER CONTROLS & HUMIDIFIER RELOCATION PHASING NOTES:

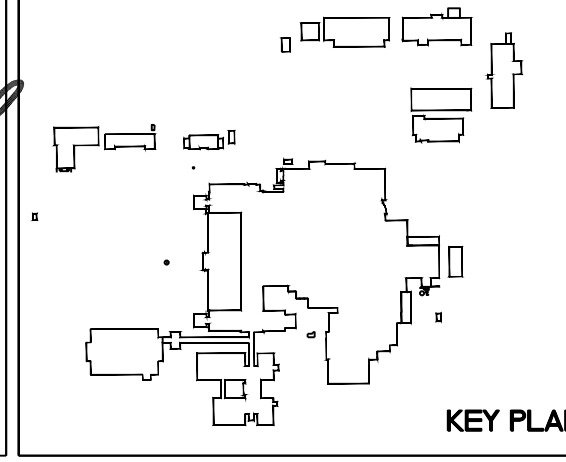
- MECHANICAL CONTRACTOR SHALL INSTALL ALL NEW CONTROLS DEVICES, PANEL WIRING, CONDUIT, ETC. AS MUCH AS POSSIBLE BEFORE SYSTEM SWITCHOVER TO NEW CONTROLS SYSTEM.
- ALL CONTROLS SYSTEM SWITCHOVERS SHALL BE CAREFULLY COORDINATED WITH THE VA AND SHALL OCCUR DURING EVENING OR WEEKEND HOURS AND SHALL BE KEPT TO A MINIMUM AMOUNT OF TIME. PROVIDE A MINIMUM OF 2 WEEKS OF ADVANCE NOTICE BEFORE STARTING WORK. SWITCHOVERS SHALL OCCUR AT THE BEGINNING OF THE WEEK AND THE UNIT SHALL BE MONITORED ALL WEEK LONG TO PREVENT ISSUES WITH TEMPERATURE CONTROL.
- INSTALL ALL NEW VALVES, PIPING, CONTROLS, ETC. AS MUCH AS POSSIBLE PRIOR TO RELOCATING EXISTING HUMIDIFIERS.
- ALL WORK TO RELOCATE THE HUMIDIFIERS OR ATTENUATORS SHALL TAKE PLACE DURING EVENING OR WEEKEND HOURS WITH A MINIMUM 2 WEEK NOTICE GIVEN TO THE OWNER BEFORE STARTING WORK AND SHALL BE KEPT TO A MINIMUM AMOUNT OF TIME. OBTAIN ALL FIELD MEASUREMENTS AND FABRICATE DUCTWORK PRIOR TO DEMOLITION TO MINIMIZE DOWNTIME. WORK TO OCCUR DURING NON-HEATING MONTHS.
- FOR ALL AIR HANDLERS SERVING AREAS THAT OPERATE 24/7, PROVIDE TEMPORARY DUCTWORK TO KEEP THE UNIT OPERATIONAL DURING HUMIDIFIER AND DUCTWORK MODIFICATIONS.

MECHANICAL NOTES:

- CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS PRIOR TO BEGINNING WORK AND NOTIFY THE ARCHITECT/ENGINEER OF ANY DISCREPANCIES BETWEEN THE "AS-BUILT" CONDITIONS AND THESE DRAWINGS.
- COORDINATE ALL HVAC PIPING AND DUCTWORK INSTALLATION WITH GENERAL PLUMBING, FIRE PROTECTION, AND ELECTRICAL CONTRACTORS. INSTALL ALL HVAC PIPING AND DUCTWORK AS HIGH AS POSSIBLE. PROVIDE ALL NECESSARY OFFSETS (DROPS AND RISERS) TO KEEP HVAC PIPING AND DUCTWORK TIGHT TO THE STRUCTURE ABOVE AND INSULATION BY ALL TRACES. OFFSET HVAC PIPING AND DUCTWORK TO AVOID BEAMS.
- THIS CONTRACTOR SHALL OPEN ALL EXISTING WALLS AND/OR CEILINGS FOR INSTALLATION OF NEW HVAC PIPING AND VENTILATION DUCTWORK, EQUIPMENT, ETC. AS REQUIRED. PATCH WALLS AND/OR CEILINGS TO MATCH EXISTING.
- MAINTAIN 3'-0" CLEAR SPACE IN FRONT OF ALL ELECTRICAL, CONTROL, AND ACCESS PANELS FOR ACCESSIBILITY.
- ALL SHUT-OFF VALVES, CONTROL VALVES, STRAINERS, DAMPERS, ETC. SHALL BE INSTALLED IN ACCESSIBLE CEILING. VALVES SHALL BE LOCATED NOT MORE THAN 2 FEET ABOVE ACoustICAL CEILING.
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- PROVIDE 1/2" DRAIN VALVE AT ALL LOW POINTS OF EACH SYSTEM TO ENABLE COMPLETE DRAINAGE. PROVIDE 1/2" VENT VALVES AT ALL HIGH POINTS OF EACH SYSTEM TO ENABLE COMPLETE VENTING.
- ALL OPEN ENDS OF DUCTS SHALL BE CAPPED AT THE END OF CONSTRUCTION EACH DAY.
- ALL NEW PIPING SHALL BE INSTALLED AS HIGH AS POSSIBLE TO AVOID TRIPPING HAZARDS IN WALKWAYS BUT AT A HEIGHT TO REMAIN ACCESSIBLE. KEEP ALL EQUIPMENT ACCESS PATHS CLEAR.
- ALL EXISTING DIFFUSERS, GRILLES, AND FLEX DUCTS AFFECTED BY CEILING REMOVAL AND RE-INSTALLATION SHALL BE TEMPORARILY SUPPORTED DURING CONSTRUCTION AND RE-INSTALLED AFTER CEILING WORK IS COMPLETE. ALL SPRINKLER ESCUTCHEONS SHALL BE REMOVED AND REINSTALLED AS REQUIRED FOR CEILING WORK.
- REFER TO SPEC SECTION 23 09 23 FOR AHU SAFETY WIRING FOR VFD'S.
- RELOCATE EXISTING HUMIDIFIER VALVES AND ALL ASSOCIATED ACTUATORS, WIRING, ETC.
- PROVIDE DRIP LEG AND STEAM TRAP AT PIPE DOWN. CONNECT 3/4" LPR TO MAIN 3/4" LPR.
- RELOCATE EXISTING HIGH LIMIT HUMIDITY SENSOR ON SUPPLY DUCT AS REQUIRED TO MAINTAIN 10-FEET FROM NEW HUMIDIFIER LOCATION INCLUDING ALL WIRING, CONDUITS, ETC. PATCH AND INSULATE EXISTING DUCTWORK WHERE SENSORS ARE REMOVED AND AT NEW SENSOR LOCATION.
- HUMIDIFIER DRAIN SHALL NOT BLOCK EXISTING DOORS OR EXISTING WALKWAY. PROVIDE SIDE DISCHARGE DRAIN PAN AS REQUIRED TO AVOID CONFLICTS.
- PROVIDE 3-WAY CONTROL VALVE FOR CABINET UNIT HEATER AND 2-WAY CONTROL VALVE FOR RADIATION UNIT.

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Fargo, ND 58102

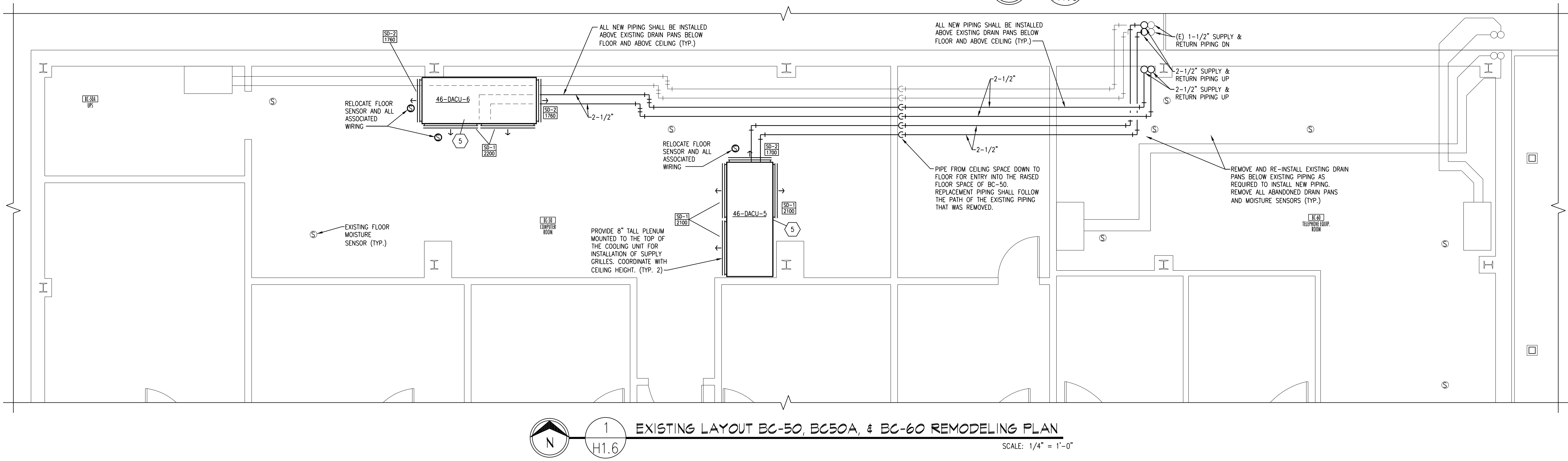
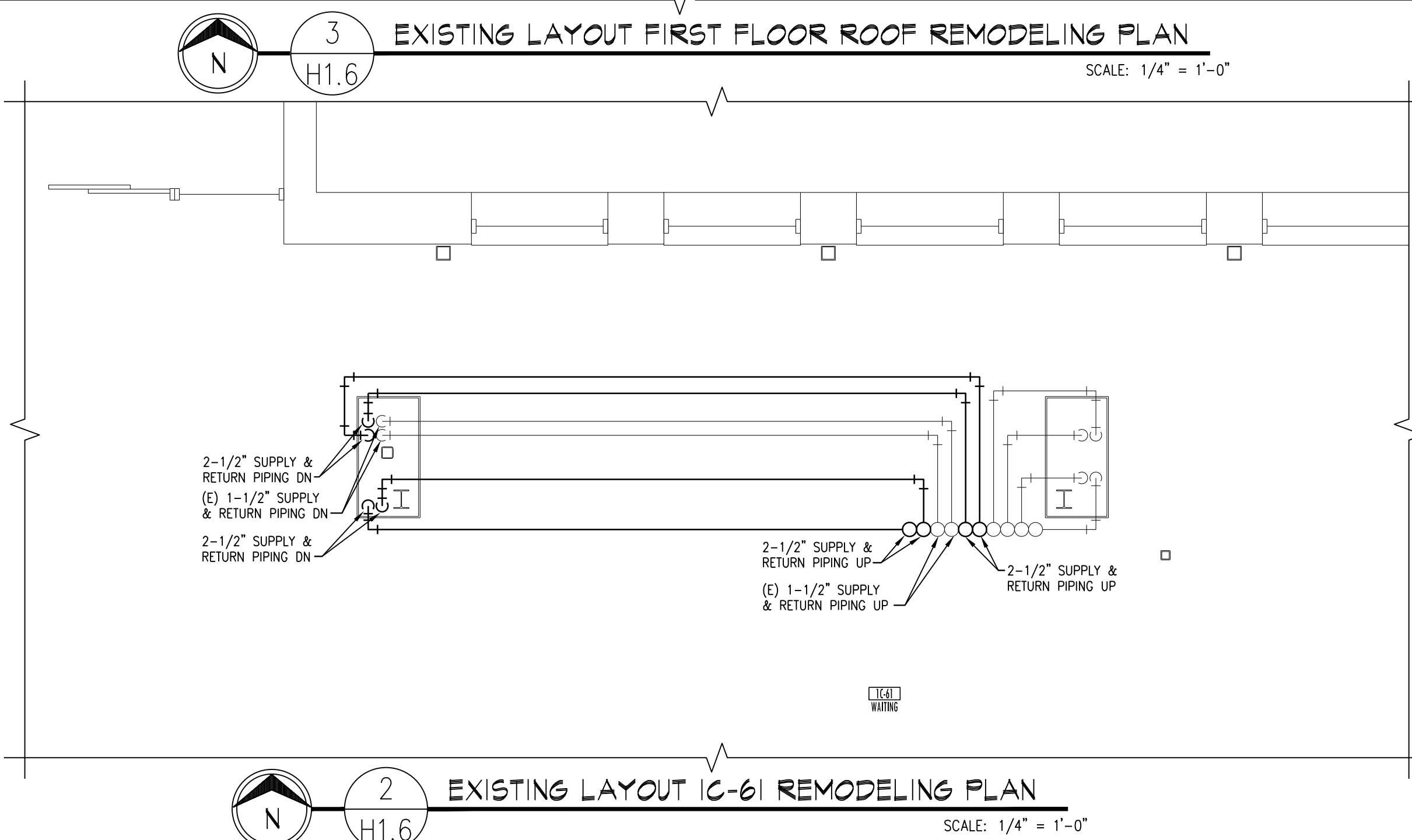
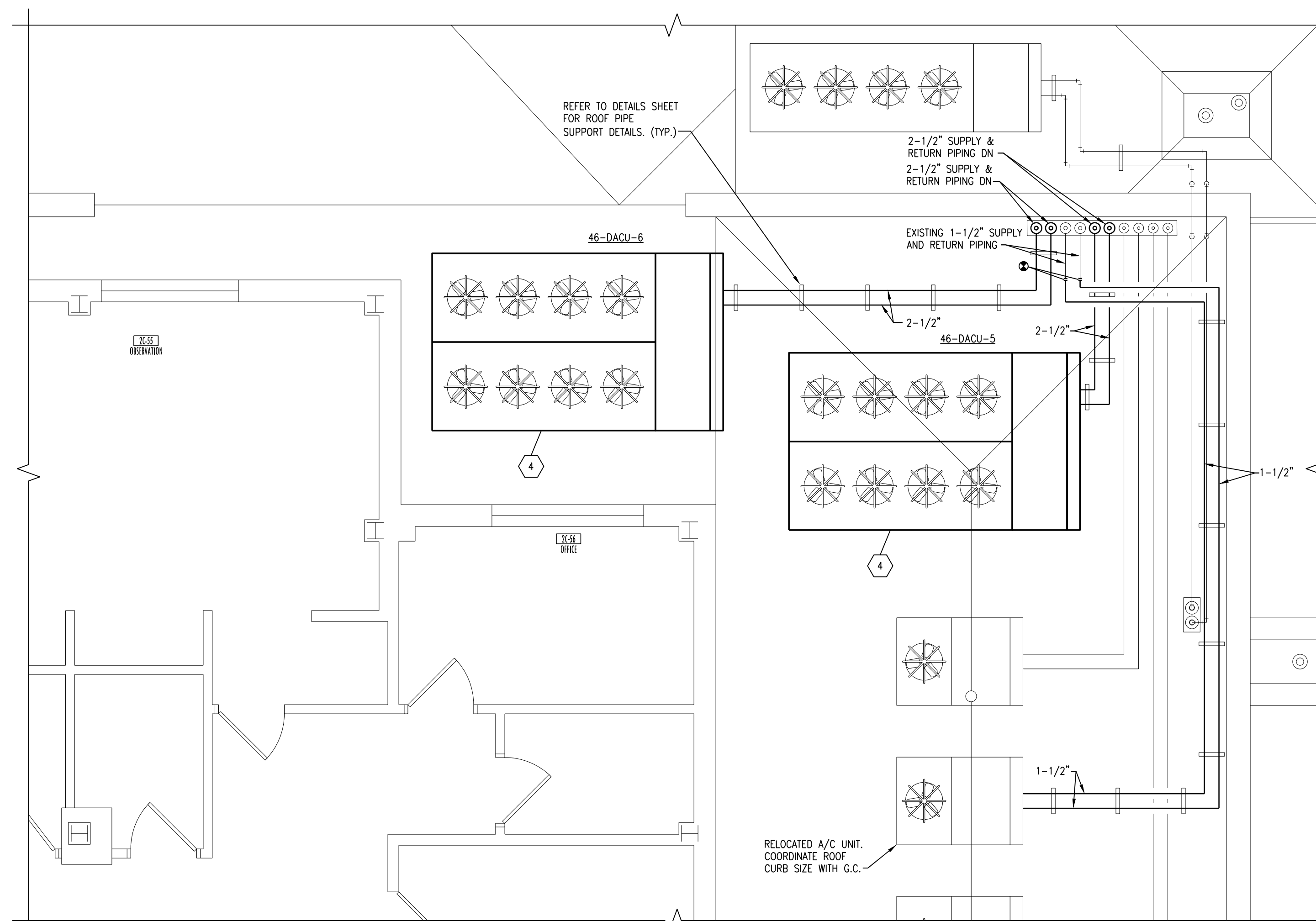
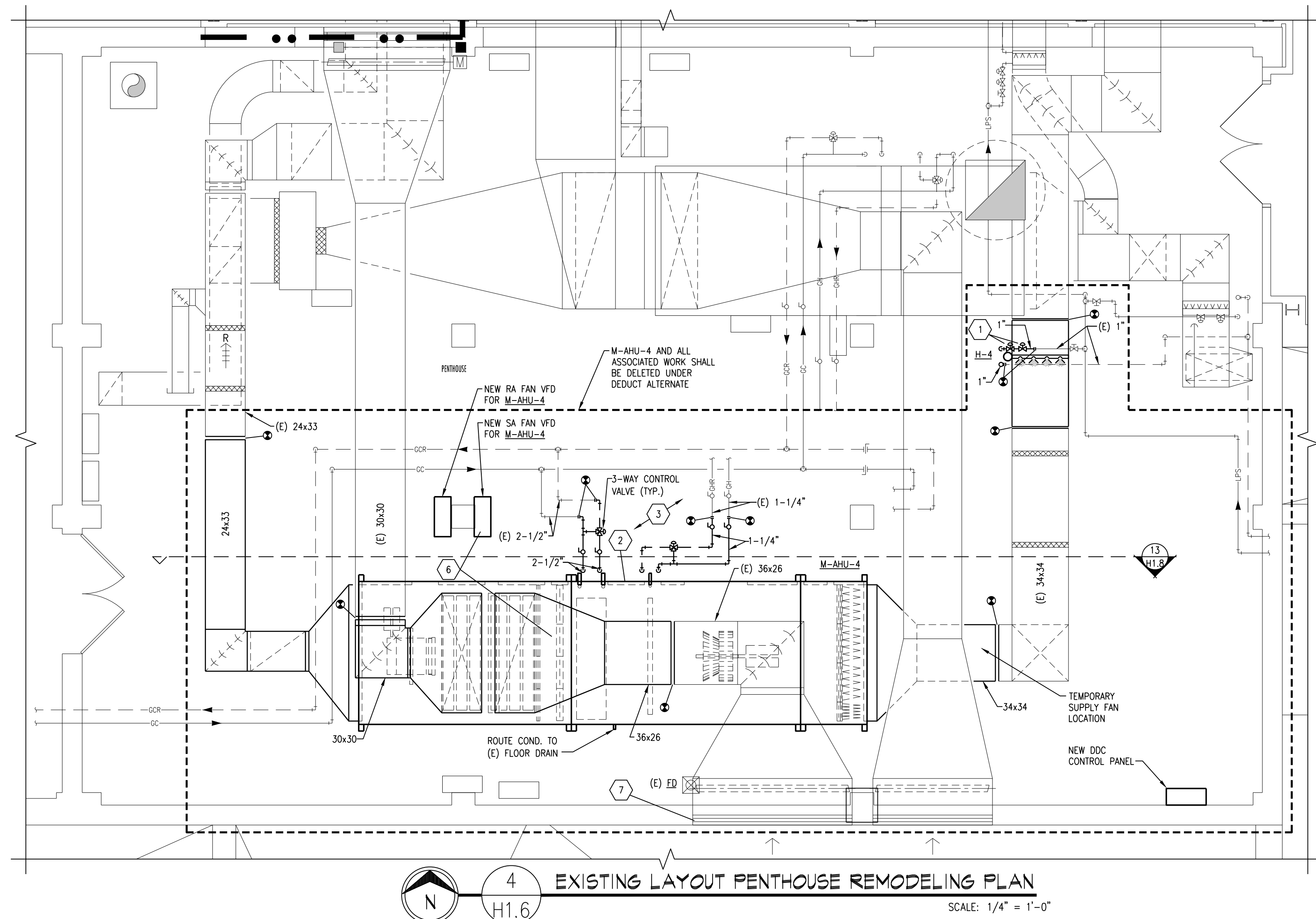
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Drawing Title BASEMENT, THIRD, FOURTH, AND ATTIC SPACE REMODELING PLANS		Project Title REPLACE OR UPGRADE HVAC SYSTEM COMPONENTS		Date SEPT. 14, 2016
Project Phase PHASE 1		Scale AS SHOWN		Drawing No. H1.5
VA Project No. 437-10-111	Contract No. VA263-P-218	Designed By JP	Checked By JP	
Building No. VAMC CAMPUS	AutoCAD File Name 20227-PLSSDWG	Location FARGO VA HEALTH CARE SYSTEM	Drawn By JF	Dwg. 24 of 66

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Department of Veterans Affairs



AIR HANDLER PHASING NOTES:

1. ALL AIR HANDLER REPLACEMENTS SHALL BE PERFORMED IN APRIL/MAY OR SEPTEMBER/OCTOBER MONTHS IN CAREFUL COORDINATION WITH THE OWNER. PROVIDE A MINIMUM OF 2 WEEKS NOTICE PRIOR TO BEGINNING WORK.
2. FOR TEMPORARY AIR HANDLER OPERATION, PROVIDE A TEMPORARY FAN EQUAL TO THE UNIT AIRFLOW/HORSE POWER, AND HEPA FILTER TO BE MOUNTED TO THE SUPPLY DUCTWORK PRIOR TO REMOVING UNIT. REFER TO FLOOR PLANS FOR SUGGESTED TEMPORARY SUPPLY FAN LOCATION. FAN SHALL RUN CONTINUOUSLY. MAINTAIN THE MECHANICAL ROOM TEMPERATURE AT A MINIMUM OF 55 DEGREES AND MAXIMUM OF 70 DEGREES DURING AHU CHANGE OUT USING EXISTING HEATING UNITS OR TEMPORARY COOLING/HEATING UNITS. OUTSIDE AIR RETURN AIR RELIEF AIR AND SUPPLY AIR DUCTS SHALL BE LEFT OPEN TO USE THE MECHANICAL ROOM AS A PLENUM.
3. ALL UNIT SHUTDOWN WORK SHALL BE COMPLETED DURING WEEKEND AND EVENING HOURS. REPLACEMENT OF UNIT SHALL BE COMPLETED AS QUICKLY AS POSSIBLE WITH MULTIPLE SHIFTS REQUIRED TO EXPEDITE WORK. ALL CONTROLS WORK THAT CAN BE COMPLETED BEFORE AND SHALL BE COORDINATED. WORK SHALL BE COMPLETED DURING SPRING, FALL, OR WINTER MONTHS.
4. DISASSEMBLE NEW AIR HANDLERS TO THEIR SMALLEST COMPONENTS AS REQUIRED TO FIT THROUGH EXISTING DOORS. TEMPORARILY REMOVE EXISTING MECHANICAL ROOM DOORS AS NECESSARY.

AIR HANDLER CONTROLS & HUMIDIFIER RELOCATION PHASING NOTES:

1. MECHANICAL CONTRACTOR SHALL INSTALL ALL NEW CONTROLS DEVICES, PANEL, WIRING, CONDUIT, ETC. AS MUCH AS POSSIBLE BEFORE SYSTEM SWITCHOVER TO NEW CONTROLS SYSTEM.
2. ALL CONTROLS SYSTEM SWITCHOVERS SHALL BE CAREFULLY COORDINATED WITH THE IA AND SHALL OCCUR DURING EVENING OR WEEKEND HOURS AND SHALL BE KEPT TO A MINIMUM AMOUNT OF TIME. PROVIDE A MINIMUM OF 2 WEEKS OF ADVANCE NOTICE BEFORE STARTING WORK. SWITCHOVERS SHALL OCCUR AT THE BEGINNING OF THE WEEK AND THE UNIT SHALL BE MONITORED ALL WEEK LONG TO PREVENT ISSUES WITH TEMPERATURE CONTROL.
3. INSTALL ALL NEW VALVES, PIPING, CONTROLS, ETC. AS MUCH AS POSSIBLE PRIOR TO RELOCATING EXISTING HUMIDIFIERS.
4. ALL WORK TO RELOCATE THE HUMIDIFIERS OR ATTENUATORS SHALL TAKE PLACE DURING EVENING OR WEEKEND HOURS WITH A MINIMUM 2 WEEK NOTICE TO THE OWNER BEFORE STARTING WORK AND SHALL BE KEPT TO A MINIMUM AMOUNT OF TIME. OBTAIN ALL FIELD MEASUREMENTS AND FABRICATE DUCTWORK PRIOR TO DEMOLITION TO MINIMIZE DOWN TIME TO OCCUR DURING NON-HEATING MONTHS.
5. FOR ALL AIR HANDLERS SERVING AREAS THAT OPERATE 24/7, PROVIDE TEMPORARY DUCTWORK TO KEEP THE UNIT OPERATIONAL DURING HANDOVER AND DUCTWORK MODIFICATIONS.

COMPUTER ROOM UNIT PHASING NOTES:

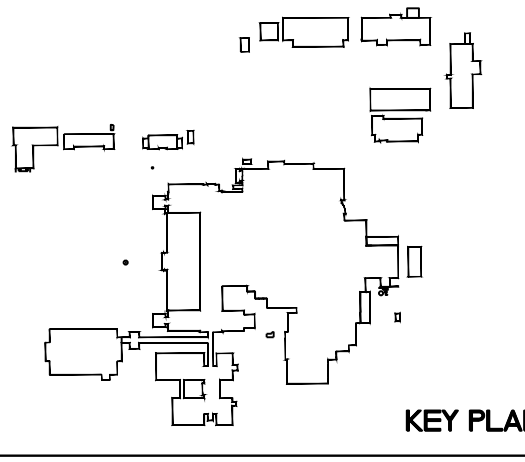
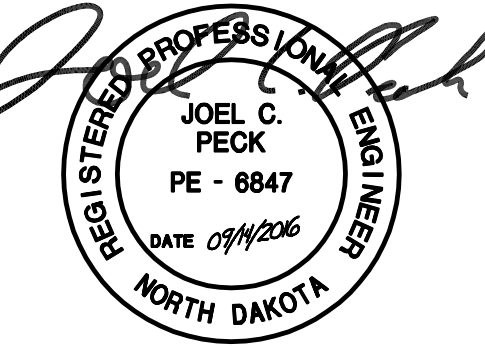
1. ALL WORK IN THE IT AND UPS ROOMS SHALL BE CAREFULLY COORDINATED WITH THE IA PRIOR TO THE START OF ANY WORK AND SHALL BE KEPT TO A MINIMUM AMOUNT OF TIME.
2. ONLY ONE COOLING UNIT SHALL BE REPLACED AT ANY GIVEN TIME.
3. PROVIDE TEMPORARY COOLING TO MAINTAIN A MAXIMUM TEMPERATURE OF 72 DEGREES IN THESE SPACES DURING ANY UNIT SHUTDOWNS.

MECHANICAL NOTES:

- A. CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS PRIOR TO BEGINNING WORK AND NOTIFY THE ARCHITECT/ENGINEER OF ANY DISCREPANCIES BETWEEN THE "AS-BUILT" CONDITIONS AND THESE DRAWINGS.
- B. COORDINATE ALL HVAC PIPING AND DUCTWORK INSTALLATION WITH GENERAL, PLUMBING, FIRE PROTECTION, AND ELECTRICAL CONTRACTORS. INSTALL ALL HVAC PIPING AND DUCTWORK AS HIGH AS POSSIBLE. PROVIDE ALL NECESSARY OFFSETS (DROPS AND RISERS) TO KEEP HVAC PIPING AND DUCTWORK TIGHT TO THE STRUCTURE ABOVE AND INSTALLATION BY ALL TRADES. OFFSET HVAC PIPING AND DUCTWORK TO AVOID BEAMS.
- C. THIS CONTRACTOR SHALL OPEN ALL EXISTING WALLS AND/OR CEILINGS FOR INSTALLATION OF NEW HVAC PIPING AND VENTILATION DUCTWORK, EQUIPMENT, ETC. AS REQUIRED. PATCH WALLS AND/OR CEILINGS TO MATCH EXISTING.
- D. MAINTAIN 3'-0" CLEAR SPACE IN FRONT OF ALL ELECTRICAL CONTROL, AND ACCESS PANELS FOR ACCESSIBILITY.
- E. ALL SHUT-OFF VALVES, CONTROL VALVES, STRAINERS, DAMPERS, ETC. SHALL BE INSTALLED IN ACCESSIBLE CEILING. VALVES SHALL BE LOCATED NOT MORE THAN 2 FEET ABOVE ACOUSTICAL CEILING.
- F. PROVIDE 1/2" DRAIN VALVE AT ALL LOW POINTS OF EACH SYSTEM TO ENABLE COMPLETE DRAINAGE. PROVIDE 1/2" VENT VALVES AT ALL HIGH POINTS OF EACH SYSTEM TO ENABLE COMPLETE VENTING.
- G. ALL OPEN ENDS OF DUCTS SHALL BE CAPPED AT THE END OF CONSTRUCTION EACH DAY.
- H. ALL NEW PIPING SHALL BE INSTALLED AS HIGH AS POSSIBLE TO AVOID TRIPPING HAZARDS IN WALKWAYS BUT AT A HEIGHT TO REMAIN ACCESSIBLE. KEEP ALL EQUIPMENT ACCESS PATHS CLEAR.
- I. ALL EXISTING DIFFUSERS, GRILLES, AND FLEX DUCTS AFFECTED BY CEILING REMOVAL AND RE-INSTALLATION SHALL BE TEMPORARILY SUPPORTED DURING CONSTRUCTION AND RE-INSTALLED AFTER CEILING WORK IS COMPLETE. ALL SPRINKLER ESCUTCHEONS SHALL BE REMOVED AND REINSTALLED AS REQUIRED FOR CEILING WORK.
- J. REFER TO SPEC SECTION 23 09 23 FOR AHU SAFETY WIRING FOR VFD'S.

1. REPLACE EXISTING HUMIDIFIER INCLUDING DUCT DISTRIBUTION TUBE, ON/OFF CONTROL VALVE, MODULATING CONTROL VALVE, SEPARATOR, CONDENSATE TEMP SENSOR, STRAINER, VALVES, AND TRAPS. RECONNECT TO EXISTING STEAM AND CONDENSATE PIPING. CUT AND PATCH EXISTING DUCTWORK TO INSTALL NEW DISTRIBUTION TUBES.
2. PROVIDE NEW DDC CONTROLS FOR REPLACEMENT UNIT. SEE CONTROL DIAGRAM FOR MORE INFORMATION.
3. SPRINKLE ABOVE AND BELOW DUCTWORK AND EQUIPMENT AS REQUIRED BY IFC 903.1.3.
4. COORDINATE WITH C.C. FOR SIZE OF NEW ROOF CURBS FOR LARGER UNITS.
5. CONNECT NEW COOLING UNITS TO EXISTING CONDENSATE AND WATER LINES THAT PREVIOUSLY SERVED THE EXISTING UNITS. PROVIDE ADDITIONAL PIPING AND INSULATION AS REQUIRED FOR CONNECTION TO NEW UNIT. COORDINATE RELOCATION OF ADJACENT SERVER RACKS WITH OWNER. RELOCATE FLOOR TILES AS NEEDED TO COORDINATE WITH NEW RETURN AIR OPENING ON BOTTOM OF UNIT. RELOCATE SPRINKLER HEADS DIRECTLY ABOVE NEW COOLING UNITS TO ADJACENT TILE.
6. IF ALTERNATE REDUCT TO REPLACE AHU-4 IS ACCEPTED, REPLACE THE EXISTING SUPPLY FAN AND ASSOCIATED MOTOR, VFD, AND MOUNTING BASE. THE AHU PHASING NOTES SHALL APPLY, BUT A TEMPORARY FAN WILL NOT BE REQUIRED FOR FAN AND MOTOR REPLACEMENT. PROVIDE A NEW SPRING ISOLATION BASE FOR THE NEW SUPPLY FAN. MODIFY THE EXISTING FAN BULKHEAD AS REQUIRED FOR CONNECTING NEW FAN DISCHARGE TO THE INSIDE OF THE AIR HANDLER.
7. DISCONNECT AND REMOVE EXISTING DAMPER ACTUATORS AND LOCK OPEN DAMPERS AT LOUVER.

Dept. of Veterans Affairs
Medical Center
 2101 Elm Street
 Fargo, ND 58102



Drawing Title BASEMENT, FIRST, AND ROOF LARGE SCALE REMODELING PLANS		Project Title REPLACE OR UPGRADE HVAC SYSTEM COMPONENTS		Date SEPT. 14, 2016
Project Phase PHASE 1		Scale AS SHOWN		Drawing No. H1.6
VA Project No. 437-13-111	Contract No. VA263-P-1218	Designed By JP	Checked By JP	
Building No. VAMC CAMPUS	AutoCAD File Name 202272-P1-R64.DWG	Location FARGO VA HEALTH CARE SYSTEM FARGO, NORTH DAKOTA	Drawn By JF	

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