

BIOLOGICAL SCIENCES FIELD HOUSE CONDENSER REPLACEMENTS DESIGN

4322 Old Register Rd, Statesboro, GA 30458



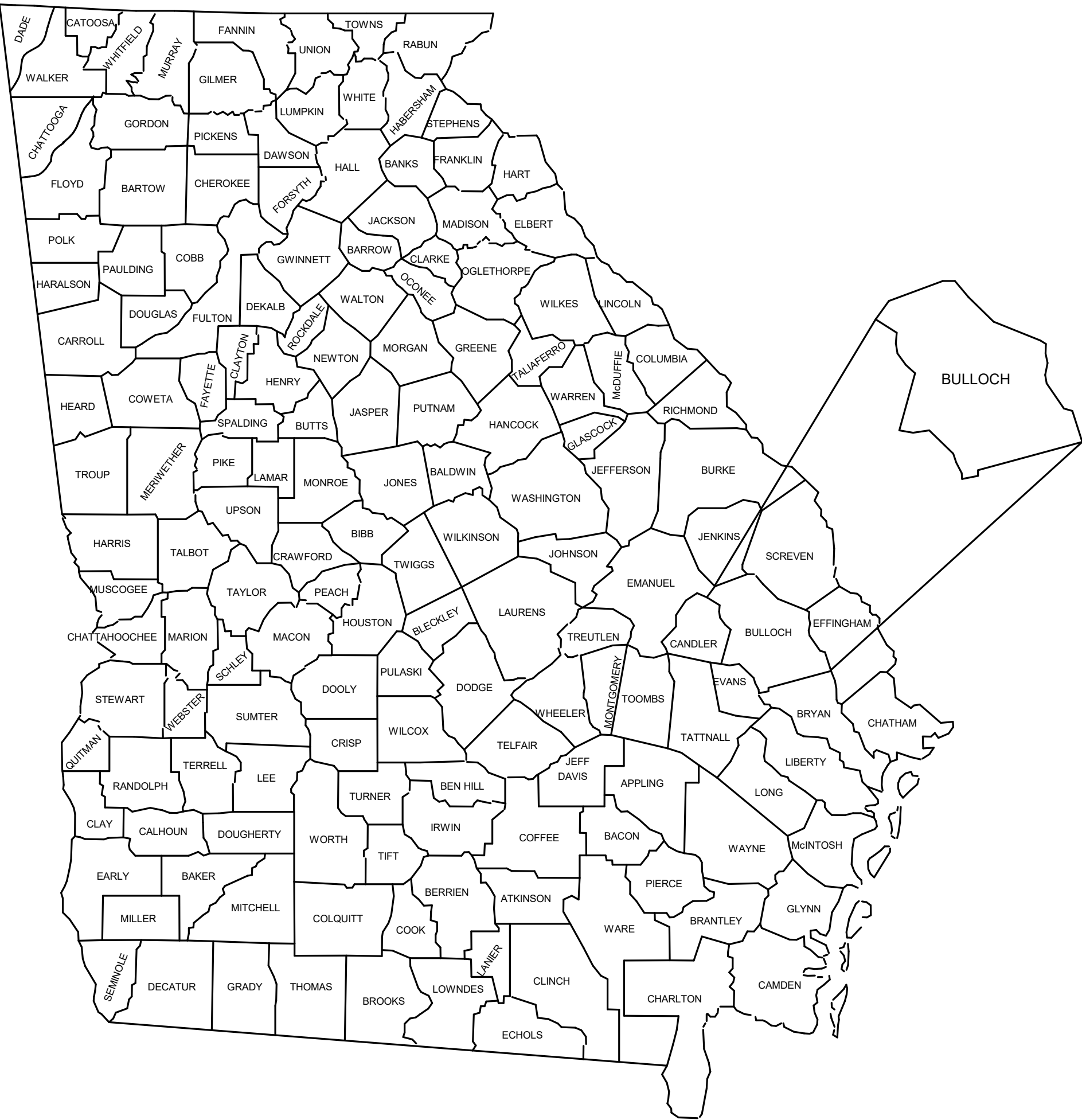
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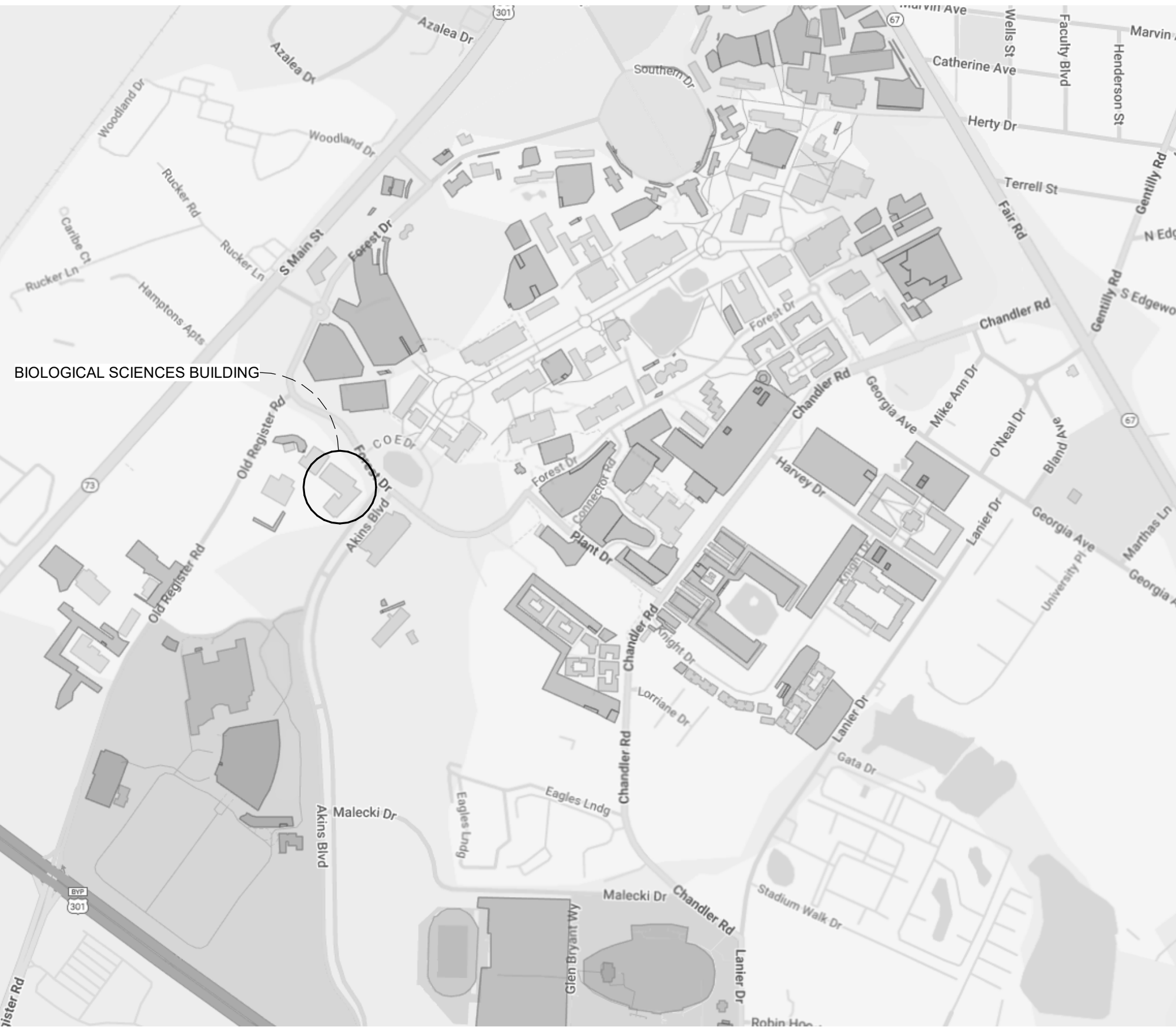
INDEX OF DRAWINGS

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M402	PIPING INSTRUCTIONS
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M601	MECHANICAL SCHEDULES

GEORGIA/COUNTY MAP



SITE MAP



BIOLOGICAL SCIENCES FIELD HOUSE
CONDENSER REPLACEMENTS DESIGN

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GEORGIA

REGISTERED

PROFESSIONAL ENGINEER

NO. 17005

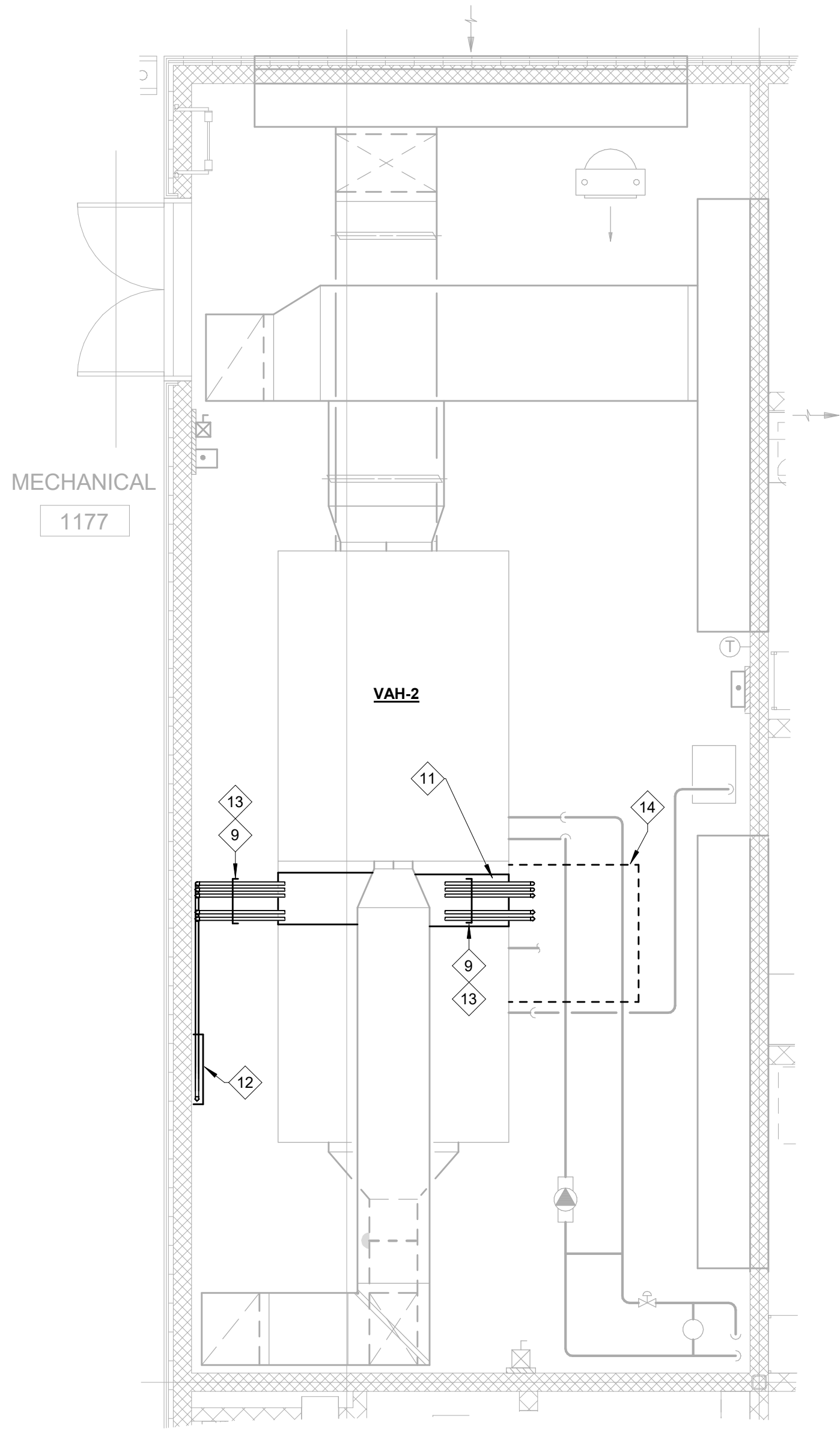
PAUL A. JACOBSON

REVISIONS		
No.	Description	Date

PROJECT NUMBER: 2025182
DATE: 1-23-2026
DRAWN BY: JSP
CHECKED BY: RRM
TITLE:

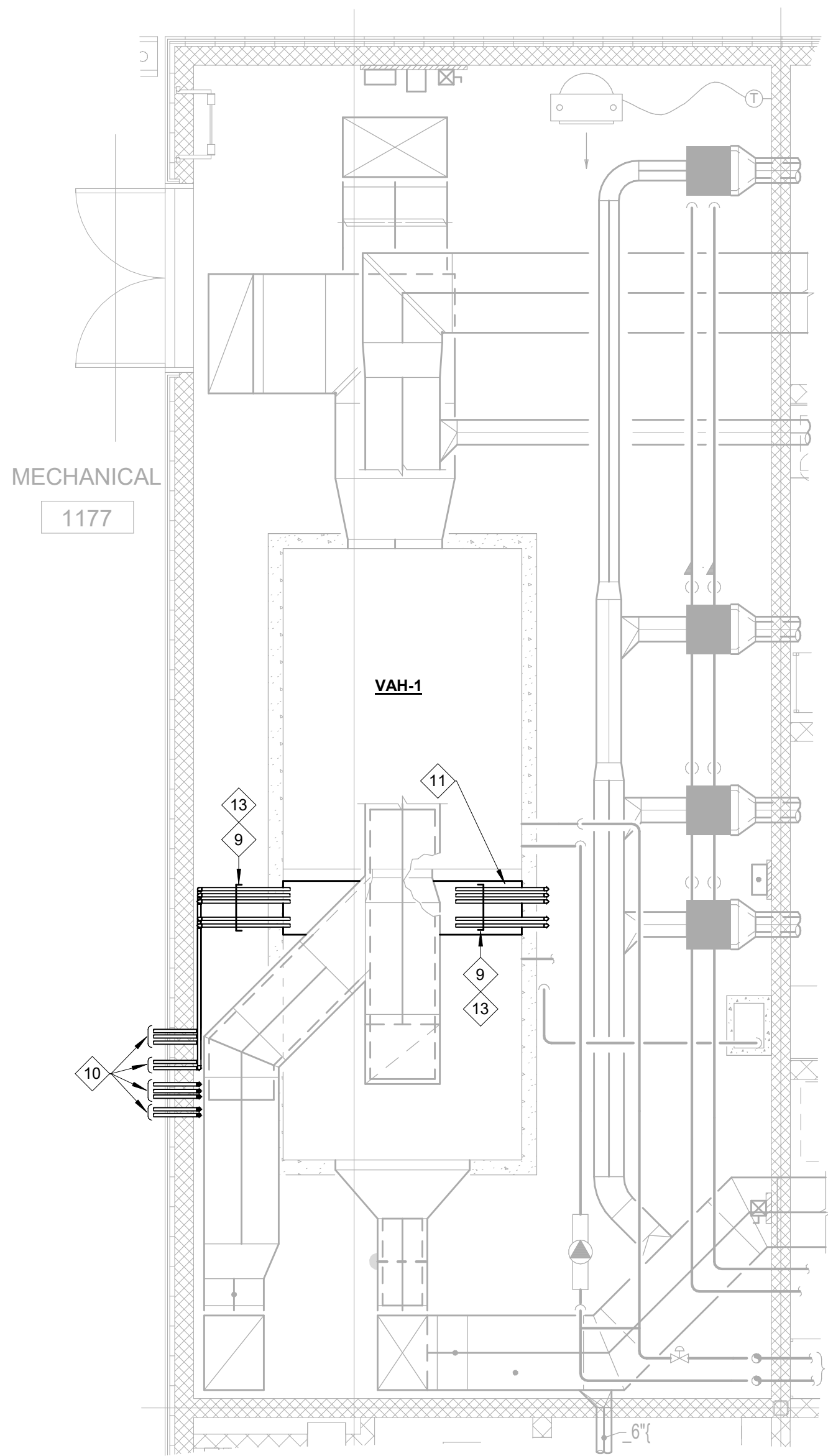
TITLE SHEET

T1



3
MD101 1/4" = 1'-0"

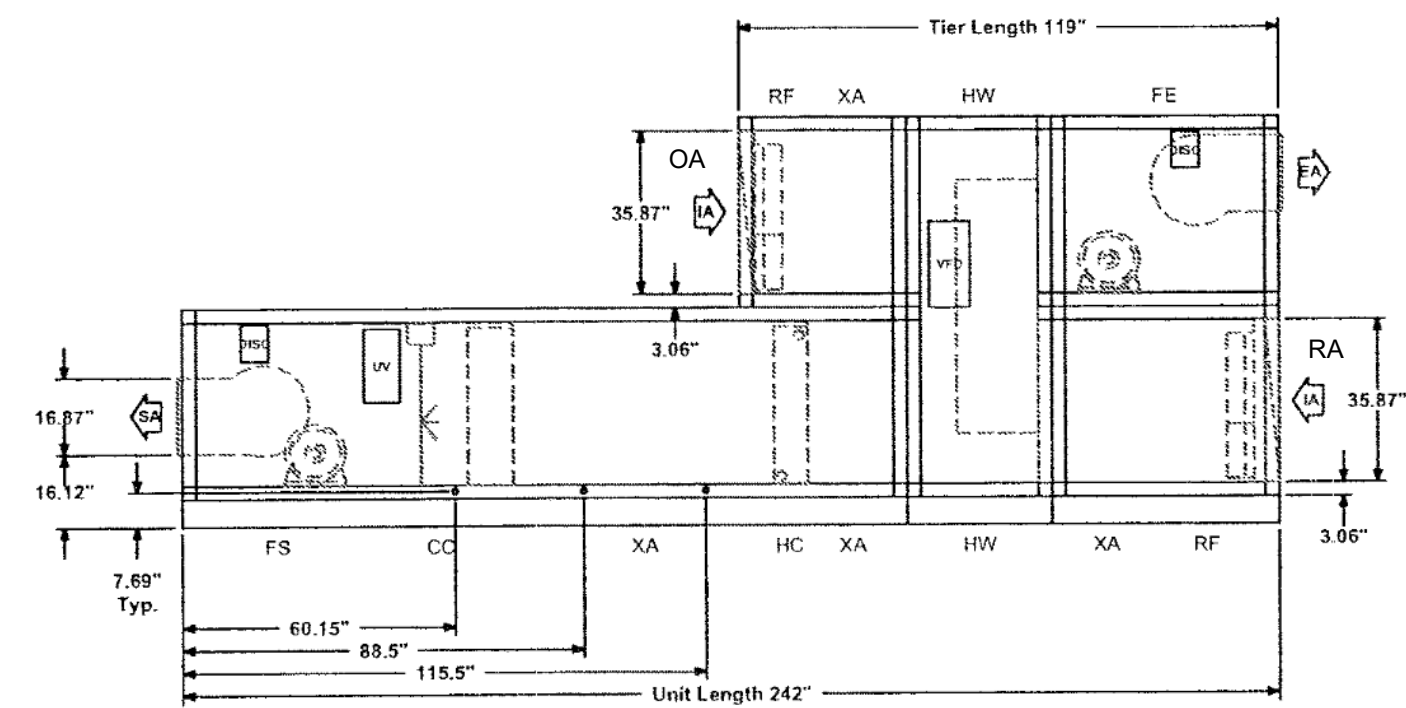
SECOND FLOOR MECHANICAL DEMOLITION PLAN - MECHANICAL ROOM 1177



2
MD101 1/4" = 1'-0"

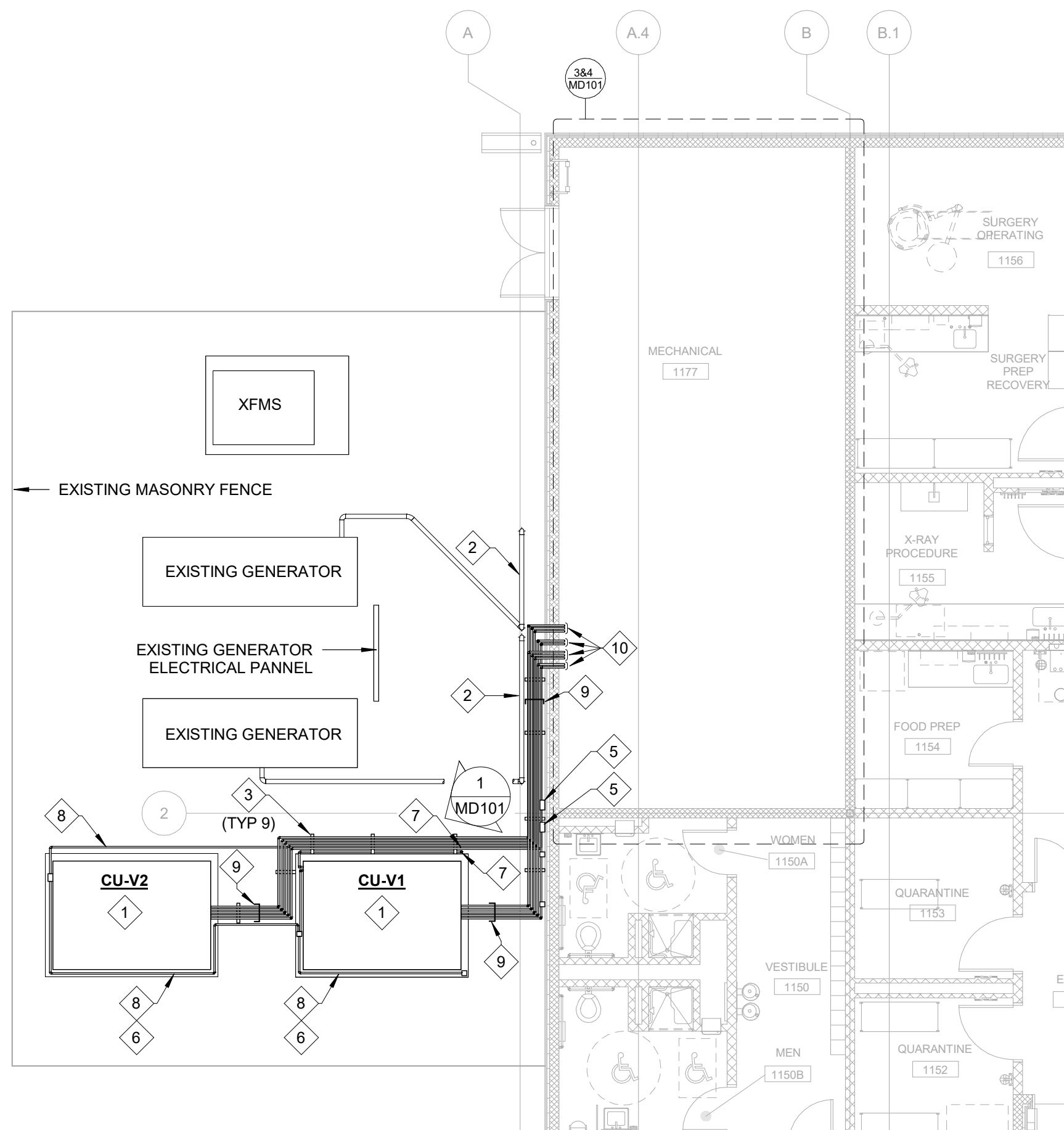
FIRST FLOOR MECHANICAL DEMOLITION PLAN - MECHANICAL ROOM 1177

VAH-1&2									
TAG	SUPPLY CFM	EXHAUST CFM	SUPPLY TSP/ESP	EXHAUST TSP/ESP	WHEEL SUPPLY PD	WHEEL EXHAUST PD	COOLING COIL PD	HOT WATER COIL PD	PRE FILTER PD
VAH-1&2	8125	7200	4.8"/1.5"	3.3"/1.3"	1.0"	0.94"	0.74"	0.14"	0.5"
1. ALL INFORMATION LISTED ABOVE IS APPROXIMATE AND TAKEN FROM ORIGINAL AHU SELECTIONS. 2. ALL PRESSURE DROPS LISTED ARE IN IN W.G. 3. IN ADDITION TO STATIC PRESSURE PROFILE MEASURE ENTERING/LEAVING AIR TEMP. (DBWB) TO COOLING/HEATING COILS. ALSO MEASURE EWT/LWT/GPM OF HOT WATER COIL AND SUCTION TEMP./PRESSURE AND DX COIL SUPERHEAT/SUBCOOLING.									



1
MD101 NOT TO SCALE

EXISTING REFRIGERANT PIPE SUPPORTS



4
MD101 1/8" = 1'-0"

FIRST FLOOR MECHANICAL DEMOLITION PLAN - CONDENSER YARD

NOTES GENERAL: (THIS SHEET ONLY)

- A. REUSE EXISTING REFRIGERANT PIPE SUPPORTS. IF EXISTING PIPE SUPPORTS ARE DAMAGED OR MISSING, INSTALL NEW SUPPORTS IN NEW WORK.
- B. EXISTING AIR HANDLER (EXCEPT DX COILS) AND ALL ASSOCIATED DUCTWORK, VAV BOXES, HW PUMPS, HW PIPING, HEATERS, VFD'S, HUMIDIFIERS, ETC. SHALL REMAIN AS IS AND IS NOT IN THE SCOPE OF THIS PROJECT.

NOTE TO CONTRACTOR CONCERNING DDC CONTROL MODIFICATION:

THIS PROJECT INVOLVES THE MODIFICATION OF SOME DDC CONTROLS BASED ON SCOPE OF WORK. CONTRACTOR SHALL NOT REMOVE ANY DDC PANELS, COMMUNICATION BUS, CONTROL DEVICES, ETC. THAT WOULD NOT ALLOW CONTROL SYSTEM TO REMAIN ACTIVE. VERIFY WITH OWNER/JOHNSON CONTROLS DURING DEMOLITION WHICH CONTROLS SHALL REMAIN OR BE REMOVED TO ALLOW CONTROLS TO REMAIN ACTIVE DURING CONSTRUCTION.

NOTE TO CONTRACTOR CONCERNING CHILLER R-410A REFRIGERANT RECOVERY:

THIS PROJECT INVOLVES THE REMOVAL OF TWO AIR COOLED CONDENSER. MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR RECOVERING ALL R-410A REFRIGERANT FROM EXISTING CONDENSER REMOVED DURING DEMOLITION. CONTRACTOR SHALL PROVIDE ALL LABOR AND TOOLS/RECOVERY EQUIPMENT REQUIRED TO RECOVER R-410A REFRIGERANT. REFRIGERANT RECOVERY CYLINDERS SHALL BE PROVIDED BY GEORGIA SOUTHERN UNIVERSITY MAINTENANCE OFFICE. CONTACT RICKY SAPP TO OBTAIN CYLINDERS. ONCE RECOVERY CYLINDERS HAVE BEEN FILLED, CYLINDERS SHALL BE RETURNED TO THE OWNER FOR PROCESSING.

NOTE TO CONTRACTOR CONCERNING PRE CONSTRUCTION TAB:

TAB CONTRACTOR SHALL COORDINATE WITH CONTROLS CONTRACTOR TO DRIVE ALL VAV BOXES TO MAX COOL AIRFLOW POSITION AND TEST TOTAL SUPPLY AND OUTSIDE AIRFLOWS AT AHU'S (VAH-1 & VAH-2). IN ADDITION, PROVIDE EXHAUST STATIC PRESSURE PROFILE/DIAGRAM ACROSS ALL COMPONENTS INCLUDING BUT NOT LIMITED TO COILS, FILTERS, WHEELS, DUCTS ETC. TO ESTABLISH BASELINE INFORMATION. SEE VAH-1&2 ARRANGEMENT FOR AHU LAYOUT. ANY DEFICIENCIES FOUND BY TAB SHALL BE NOTED AND DISCUSSED WITH THE OWNER/ENGINEER FOR CORRECTIVE ACTION. IF ITEMS NOTED ARE OUTSIDE SCOPE OF WORK FOR THIS PROJECT, OWNER SHALL ELECT TO CORRECT DEFICIENCIES OR PROVIDE SEPARATE CONTRACT FOR SUB-CONTRACTOR TO COMPLETE WORK.

NOTE TO CONTRACTOR CONCERNING BUILDING AIR CONDITIONING/HEATING:

THIS PROJECT INVOLVES THE REMOVAL AND REPLACEMENT OF TWO AIR COOLED CONDENSERS/DX COILS AT AIR HANDLING UNITS. AS DESIGNED VAH-1/CU-V1 AND VAH-2/CU-V2 ARE FULLY REDUNDANT AND DO NOT OPERATE AT THE SAME TIME TO CONDITION BUILDING. VERIFY WITH THE OWNER WHICH SYSTEM IS CURRENTLY FAILING AND REPLACE THAT SYSTEM FIRST. ONCE THE FIRST SYSTEM IS REPLACED AND FULLY OPERATIONAL, ONLY THEN SHALL SECOND SYSTEM BE ALLOWED TO BE REPLACED. SEE SHEET MD01 HEREIN FOR AIR COOLED PACKAGED RENTAL AC UNIT TO ASSIST EXISTING SYSTEM AS NEEDED. THIS RENTAL SHALL BE INCLUDED IN BASE BID AND PROVIDED AS A DEDUCTIVE ALTERNATE DURING BID PROCESS. COORDINATE ALL RENOVATION PHASING WITH THE OWNER PRIOR TO DECOMMISSIONING FIRST SYSTEM.

NOTES: (THIS SHEET ONLY)

- REMOVE EXISTING CONDENSING UNIT AND REFRIGERANT PIPING IN ITS ENTIRETY. REFRIGERANT SUPPORTS SHALL REMAIN FOR REUSE. SEE NEW WORK SHEETS FOR LOCATION OF NEW CONDENSING UNITS AND REFRIGERANT PIPING.
- EXISTING NATURAL GAS METER TO REMAIN. CONTRACTOR SHALL PROTECT NATURAL GAS PIPING AND METER DURING REMOVAL OF EXISTING REFRIGERANT PIPING.
- REUSE EXISTING REFRIGERANT PIPE SUPPORTS AND REPAIR AS NECESSARY. SOME REFRIGERANT PIPE SUPPORTS ARE CANTILEVERED AND SHALL HAVE A NEW VERTICAL SUPPORT ADDED ON THE UNSUPPORTED SIDE. SEE PHOTO FOR MORE INFORMATION.
- CANTILEVERED PIPE SUPPORT. INSTALL A NEW VERTICAL SUPPORT ON THE UNSUPPORTED SIDE.
- CONTRACTOR SHALL MAINTAIN EXISTING 100A/3P (480V) EXTERIOR DISCONNECTS FOR UNITS "CV-V1" AND "CV-V2".
- CONTRACTOR SHALL DISCONNECT EXISTING 90A, 480V, 3P POWER TO UNITS (CV-V1 AND CV-V2) TO ALLOW REMOVAL BY OTHERS. MAINTAIN CIRCUITS FOR REUSE.
- CONDUIT FEEDING BOTH CONDENSING UNITS ROUTED UP THROUGH THE GROUND IN THIS APPROXIMATE LOCATION.
- CONTRACTOR SHALL REMOVE CONDUIT TO THE POINT NECESSARY TO INSTALL THE NEW CONDENSING UNITS.
- REMOVE REFRIGERANT PIPING IN ITS ENTIRETY.
- REFRIGERANT PIPE ENTERS BUILDING AT THIS APPROXIMATE LOCATION. CONTRACTOR SHALL REUSE PIPE PENETRATIONS IN NEW WORK.
- REMOVE EXISTING DX COOLING COIL INSIDE EXISTING AIR HANDLER IN ITS ENTIRETY. PREPARE AIR HANDLER FOR INSTALLATION OF NEW DX COOLING COIL.
- REFRIGERANT PIPING ROUTED UP THROUGH THE FLOOR GRATE INTO SECOND FLOOR MECHANICAL ROOM.
- EXISTING UNISTRUT RODS/HANGERS AND WALL UNISTRUT BRACKETS SHALL REMAIN FOR REUSE.
- CONTRACTOR SHALL REMOVE METAL FLOOR GRATING AND CLIPS AS REQUIRED TO MOVE GRATING AND ALLOW NEW AND OLD DX COIL TO BE REMOVED AND INSTALLED. DO NOT CUT GRATING UNDER ANY CIRCUMSTANCES.

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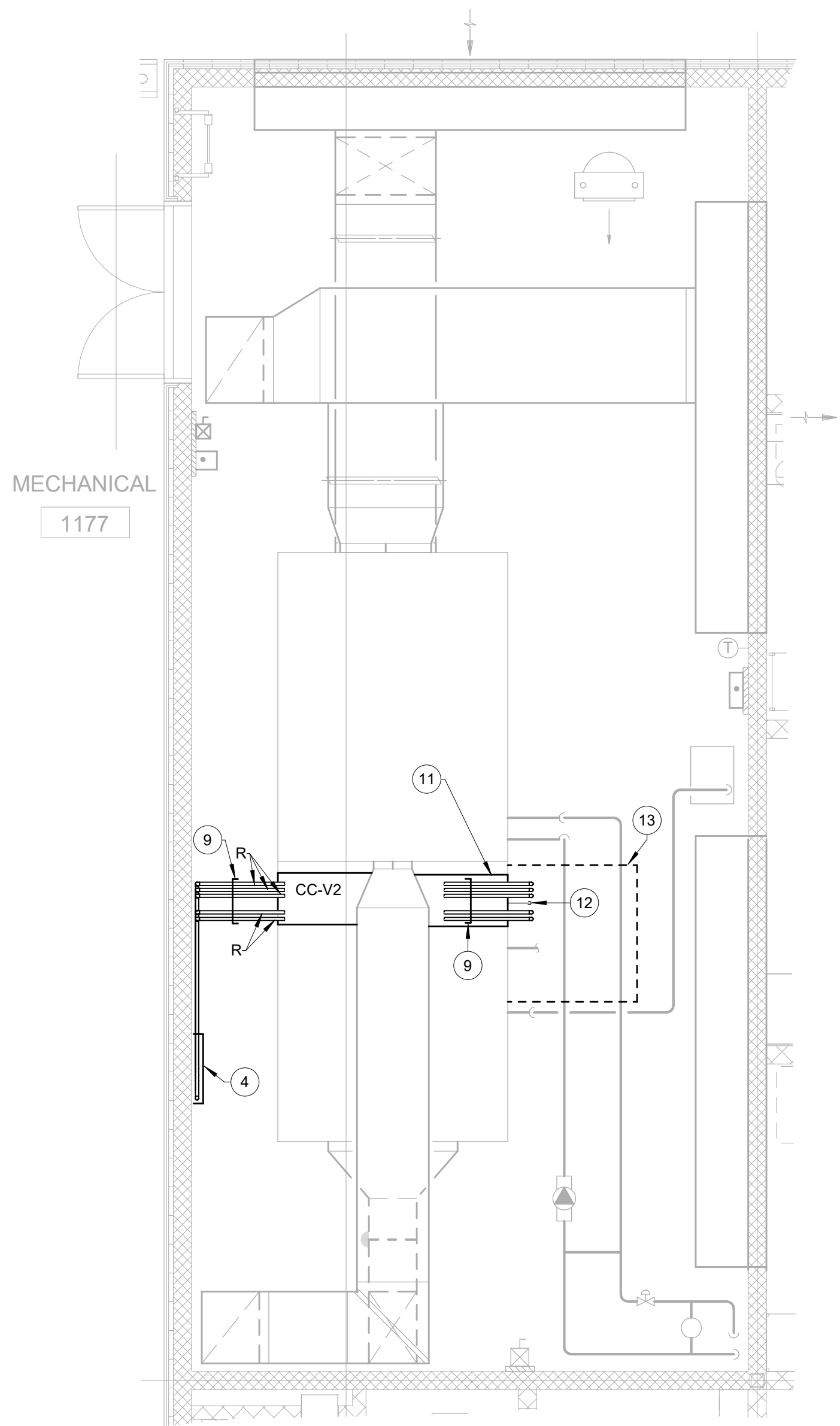
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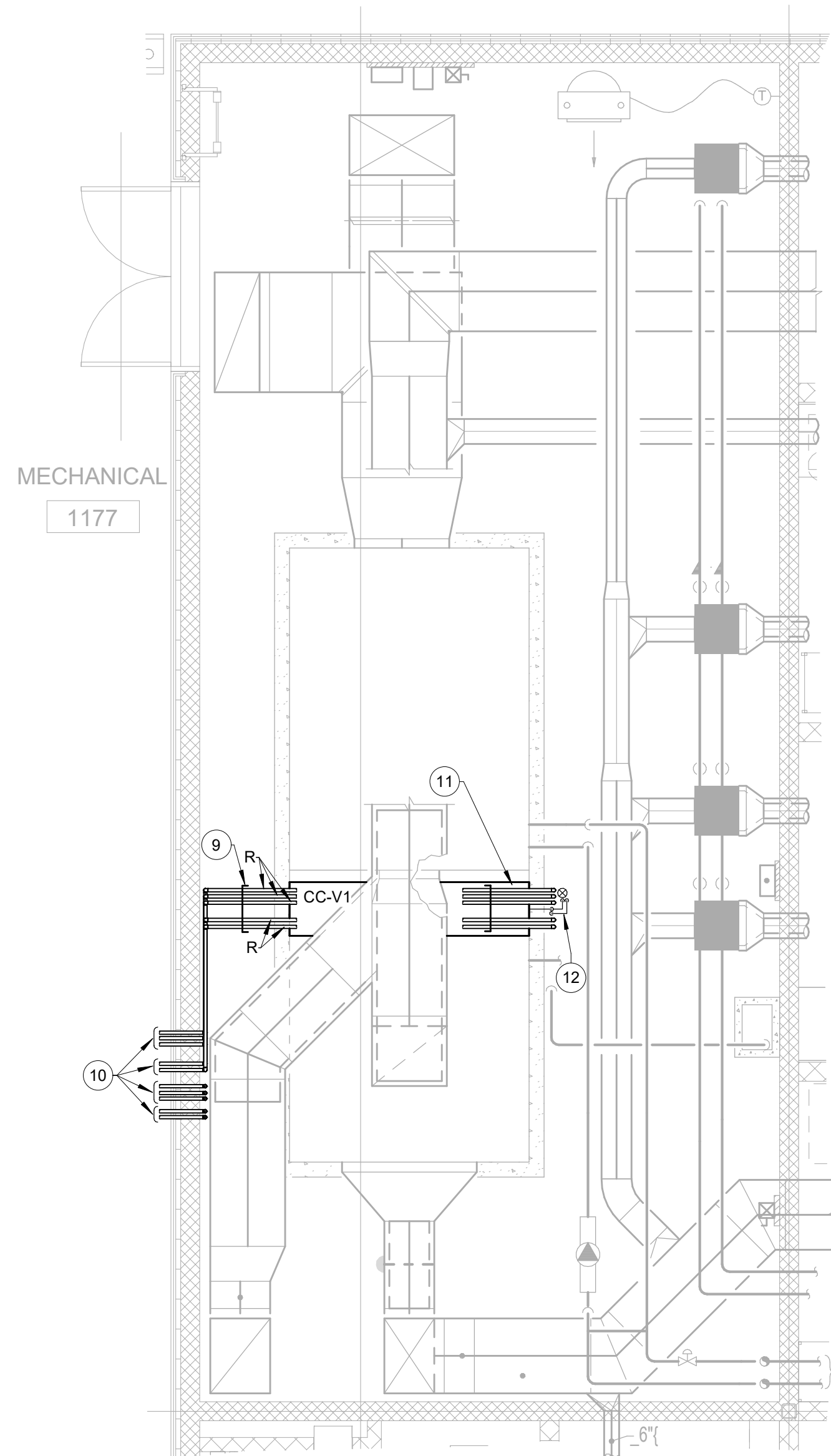
PROJECT NUMBER: 2025182
DATE: 1-23-2026
DRAWN BY: JSP
CHECKED BY: RRM
TITLE: MECHANICAL DEMOLITION PLANS

MD101



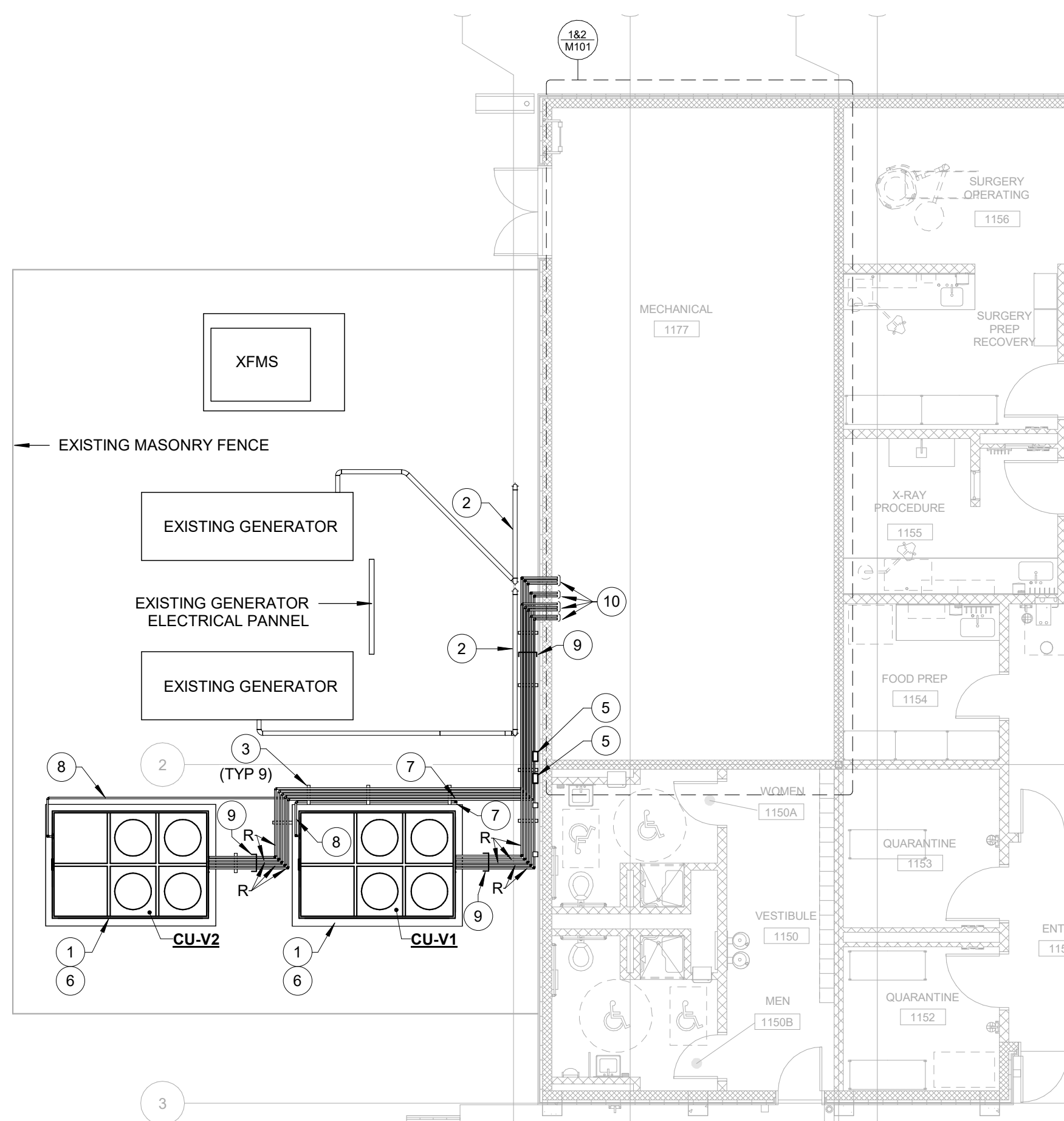
1
M101
1/4" = 1'-0"

SECOND FLOOR MECHANICAL NEW WORK PLAN - MECHANICAL ROOM 1177



2
M101
1/4" = 1'-0"

FIRST FLOOR MECHANICAL NEW WORK PLAN - MECHANICAL ROOM 1177



FIRST FLOOR MECHANICAL NEW WORK PLAN - CONDENSER YARD

1/8" = 1'-0"

NOTES GENERAL: (THIS SHEET ONLY)

- CONTRACTOR SHALL REUSE ALL EXISTING REFRIGERANT PIPE HANGERS AS APPROPRIATE. IF EXISTING PIPE HANGERS ARE MISSING OR DAMAGED THEN CONTRACTOR SHALL REPLACE OR ADD AS NEEDED. SEE PIPE HANGER DETAILS AND SUPPORTS.
- ALL REFRIGERANT AND CONDENSATE PIPES SHALL BE INSULATED IN ACCORDANCE WITH INTERIOR AND EXTERIOR INSULATION DETAIL.
- INTERCONNECTING REFRIGERANT LINES SHOULD BE SIZED PER MANUFACTURERS APPLICATION GUIDELINES FOR LENGTH, PRESSURE DROP, VELOCITY CONSTRAINTS ETC. CONSULT MANUFACTURER AND PROVIDE ALL HORIZONTAL AND VERTICAL PIPE LENGTHS IN ADDITION TO ALL FITTINGS TO SIZE PIPING. MANUFACTURER SHALL PROVIDE CONTRACTOR WITH A DETAILED PIPE SIZING AND ROUTING LAYOUT WITH PIPE SIZES SHOWN ALONG WITH REQUIRED REFRIGERANT PIPING COMPONENTS AND SUBMIT TO ENGINEER. SEE SCHEMATIC ON M401 FOR CONDENSING UNIT LOCATION RELATIVE TO INDOOR COIL LOCATION. VERIFY WITH MANUFACTURER ALL CONDITIONS.

NOTE TO CONTRACTOR CONCERNING POST CONSTRUCTION TAB:

TAB CONTRACTOR SHALL COORDINATE WITH CONTROLS CONTRACTOR TO DRIVE ALL VAV BOXES TO MAX COOL AIRFLOW POSITION AND TEST TOTAL SUPPLY AIRFLOW AT AHU'S (VAH-1 & VAH-2). IN ADDITION PROVIDE PRESSURE DROP ACROSS NEW DX COOLING COIL. ALSO MEASURE COOLING COIL ENTERING AND LEAVING AIR TEMPERATURE (DBWB). MECHANICAL CONTRACTOR SHALL ALSO PROVIDE SERVICE TECHNICIAN TO MEASURE REFRIGERANT SUCTION/LIQUID PRESSURE/TEMP AND DX COIL SUPERHEAT AND SUBCOOLING.

NOTE TO CONTRACTOR CONCERNING CENTRAL AC UNIT:

CONTRACTOR SHALL PROVIDE RENTAL EQUIPMENT AS SHOWN ON SHEET M501 TO ASSIST EXISTING SYSTEM AS DESCRIBED ON M401. THIS RENTAL SHALL BE FOR FOUR WEEKS AND SHALL BE LOCATED NEAR MECHANICAL ROOM AS DIRECTED BY THE OWNER. RENTAL SHALL INCLUDE ALL MATERIALS I.E. TEMPORARY DUCTS, FITTINGS, SUPPORTS, ELECTRICAL WIRING ETC. TO OPERATE UNIT. TEMPORARY UNIT LOCATION AND DUCTS ARE NOT SHOWN ON NEW WORK DRAWINGS. ONCE UNIT LOCATION IS DETERMINED BY THE OWNER 20' TEMPORARY (APPROX. 2 SUPPLY / 2 RETURN) SHALL BE ROUTED THRU HALF OF THE DOUBLE DOOR OPENING AND SECURED TO KEEP THE OTHER HALF OF DOOR OPEN FOR ACCESS TO ROOM. TEMP. DUCTS SHALL BE ROUTED FOR CONNECTIONS TO EXISTING SUPPLY AND RETURN DUCTS LEAVING/ENTERING AHU FIELD VERIFY LOCATION (NOT SHOWN ON DRAWINGS)

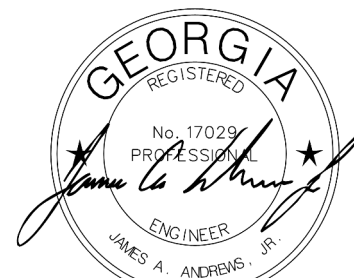
NOTES: (THIS SHEET ONLY)

- INSTALL NEW CONDENSING UNIT AND REFRIGERANT PIPING. REUSE EXISTING REFRIGERANT SUPPORTS. REFRIGERANT LINES SHALL BE ROUTED ALONG SAME PATH AS ONES REMOVED DURING DEMOLITION.
- EXISTING NATURAL GAS METER. CONTRACTOR SHALL PROTECT NATURAL GAS PIPING AND METER DURING INSTALLATION OF REFRIGERANT PIPING.
- REUSE EXISTING REFRIGERANT PIPE SUPPORTS.
- REFRIGERANT PIPING ROUTED UP TO MEZZANINE FLOOR INTO SECOND FLOOR MECHANICAL ROOM IN THIS APPROXIMATE LOCATION. REUSE EXISTING PIPING PENETRATIONS.
- EXISTING 100A/3P DISCONNECTS FOR UNITS "CV-V1" AND "CV-V2" SHALL BE REUSED. CONTRACTOR SHALL UTILIZE ONE OF THESE DISCONNECTS AND POWER CIRCUITS TO POWER TEMPORARY RENTAL PACKAGED AIR CONDITIONING UNIT.
- CONTRACTOR SHALL RECONNECT EXISTING 460V, 3 PHASE, 90A POWER CIRCUIT TO NEW UNITS (CV-V1 AND CV-V2). EXTEND 3#3, #8G, 1 1/2" AS IF NEEDED.
- REFRIGERANT PIPE ENTERS BUILDING AT THIS APPROXIMATE LOCATION. REUSE EXISTING PIPE WALL AND HORIZONTAL SUPPORTS.
- CONDUIT FEEDING BOTH CONDENSING UNITS ROUTED UP THROUGH THE GROUND IN THIS APPROXIMATE LOCATION.
- CONTRACTOR SHALL ROUTE NEW CONDUIT TO THE POINT NECESSARY TO INSTALL THE CONDENSING UNITS.
- INSTALL NEW REFRIGERANT PIPING. PIPING SHALL BE ROUTED ALONG THE SAME ROUTE AS THE REFRIGERANT PIPING REMOVED DURING DEMOLITION.
- INSTALL NEW DX COOLING COIL INSIDE EXISTING AIR HANDLER PER MANUFACTURER INSTRUCTIONS.
- ROUTE LINE SIZED COPPER CONDENSATE DRAIN LINE WITH CONDENSATE TRAP TO FLOOR DRAIN. SEE CONDENSATE DRAIN TRAP DETAIL. SECOND FLOOR CONDENSATE SHALL DROP TO FLOOR DRAIN ON FIRST LEVEL. MATCH EXISTING SIZE.
- ONCE DX COIL ON SECOND LEVEL IS IN PLACE REINSTALL METAL FLOOR GRATING AND CLIPS.

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4322 Old Register Rd, Statesboro, GA 30458

REVISIONS

No.	Description	Date

PROJECT NUMBER: 2025182

DATE: 1-23-2026

DRAWN BY: JSP

CHECKED BY: RRR

TITLE:
MECHANICAL NEW WORK
PLANS

M101

NEW DDC SEQUENCE

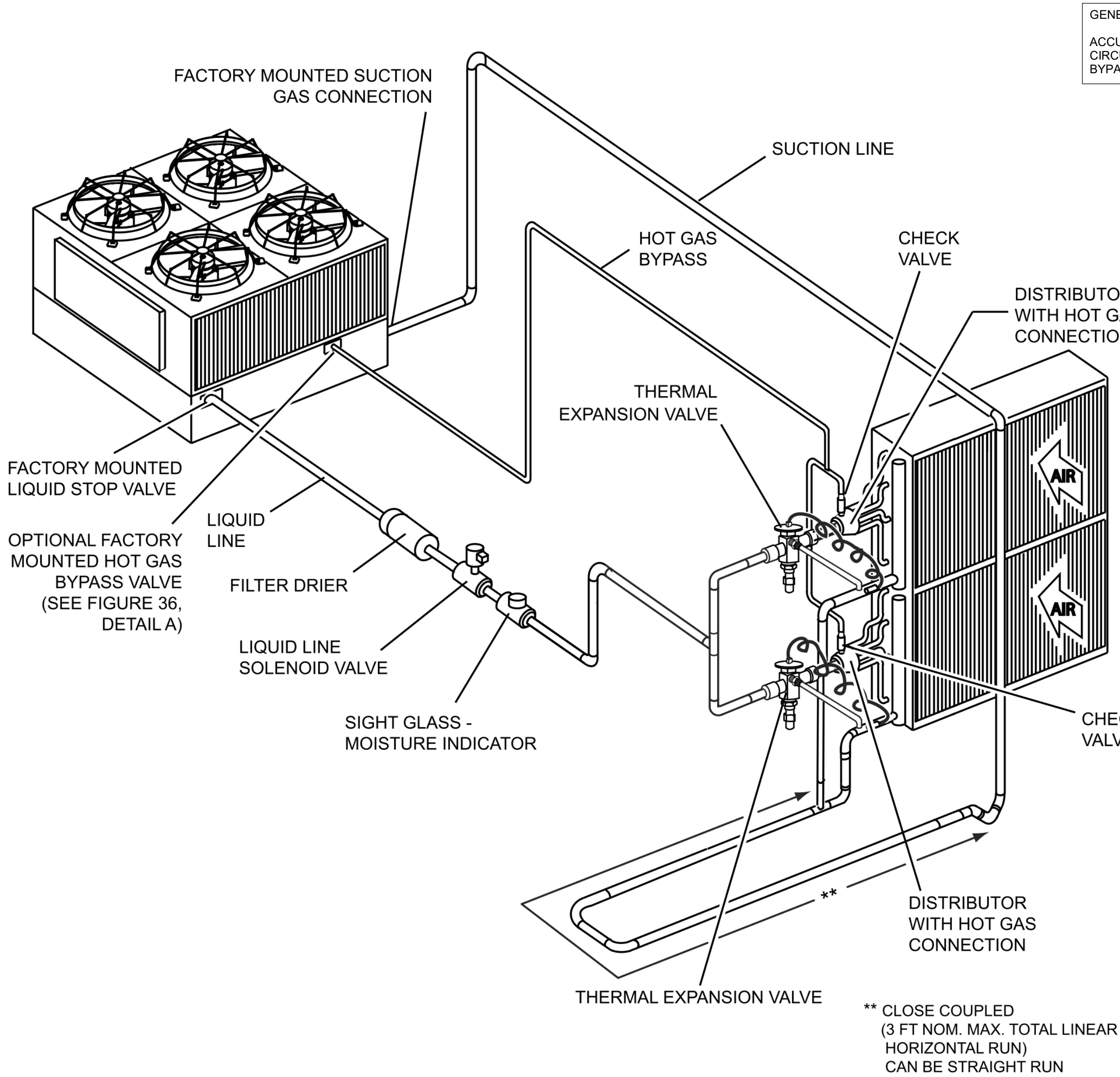
EXISTING SEQUENCE OF OPERATION SHALL BE MAINTAINED. ADDITIONAL SENSORS SHALL BE PROVIDED AND INSTALLED AND SHALL MONITOR REFRIGERANT LEAKS. IF A LEAK IS DETECTED BY SENSOR, ALL COMPRESSOR OPERATION/IGNITION SOURCES SHALL STOP AND START SUPPLY FAN IN ASSOCIATED AIR HANDLER (WITHIN 15 SECONDS) SHALL RUN TO DILUTE GAS. AFTER LEVELS NORMALIZE, THE SYSTEM LOCKOUT SHALL REQUIRE MANUAL RESET.

EXISTING DDC SEQUENCE

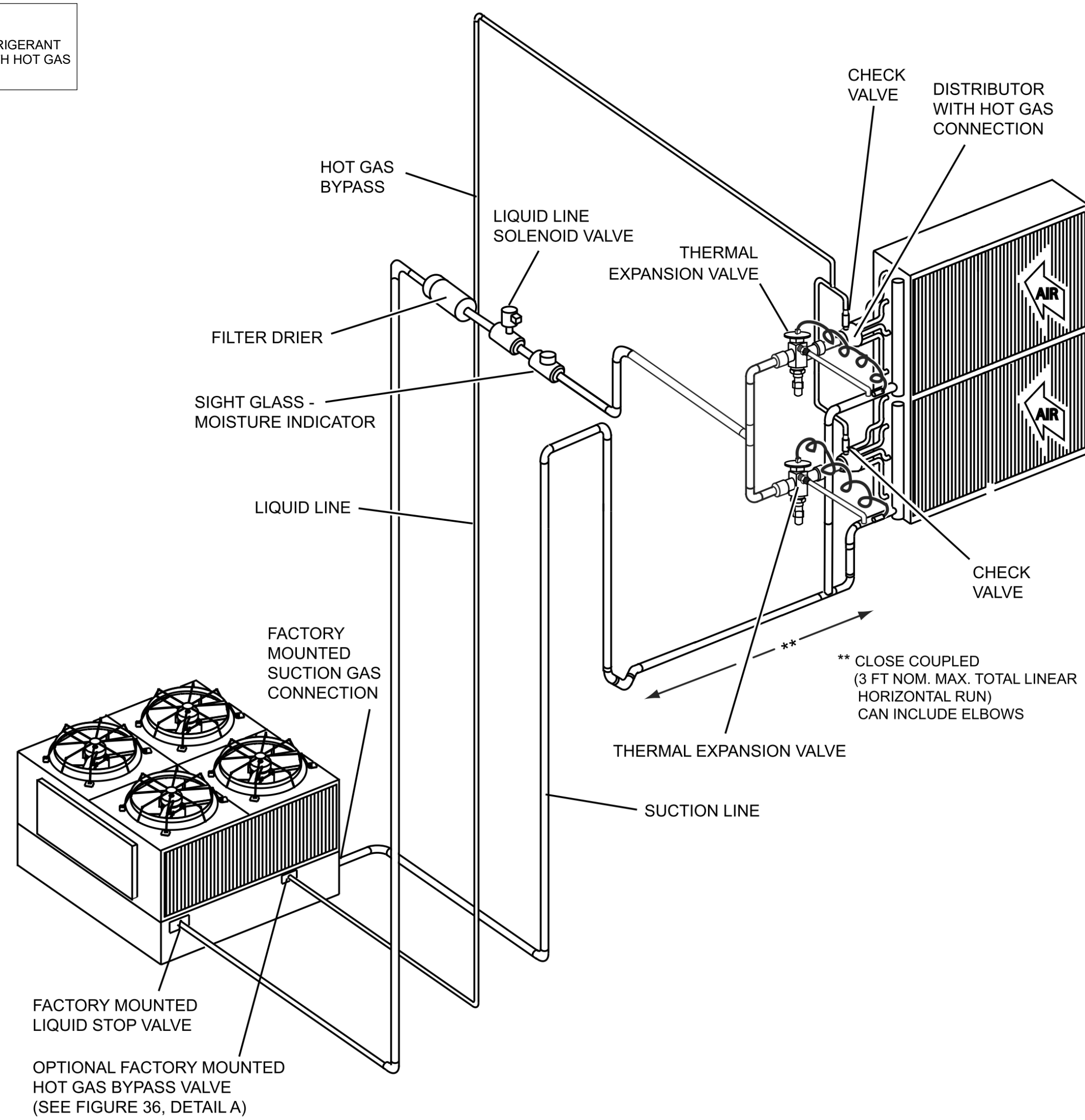
- VIVARIUM AIR HANDLING UNITS
- Sequences: VAH-1, VAH-2
 - Fan(s) Start-Stop:
 - The Vivarium air handling systems shall operate in a lead/lag sequence. The designated lead air unit shall rotate upon one of the following conditions (userselectable):
 - manually through a software switch if air runtime (adj.) is exceeded
 - weekly
 - monthly
- Vivarium Unit Failure: If the lead operating unit shall fail, the fans shall be shutdown, unit isolation dampers shall close, the lag unit shall be enabled, and an alarm signal shall notify the BAS.
- A normally open digital output relay on time of day programming commands the lead unit thru outside air damper, supply air isolation damper, and end switches to start supply fan thru hardwire interlock. Exhaust fan shall be hardwire interlocked to start when supply fan starts, and thru end switches located on the exhaust air damper and exhaust isolation damper. Provide programmed time delay to allow fans to stop prior to closing dampers.
- The digital output relay stops the supply fan.
- On loss of normal power, the lead VAH unit with associated heating coil pump, DX condensing unit, humidifier, and controls shall operate on generator supplied (emergency) power service.
- Safety Controls to Stop Fan(s):
 - Low temperature detector in air entering DX cooling coil (hardwire). Provide manual reset switch and "Freeze/Stat Tripped" indicator light in face of control panel.
 - Smoke detector in supply and return air duct.
 - N.C. fire alarm relay (hardwire).
 - High limit static pressure sensor in the S.A. discharge plenum.
 - Low limit static pressure sensor in the E.A. intake plenum.
 - Emergency fan shutdown switch located adjacent to apparatus casing door.
- Supply Fan Capacity Control:
 - Variable frequency speed control for each unit modulates supply fan speed on control of static pressure sensor in S.A. duct to maintain constant duct static pressure.
 - Locate sensor as shown on drawings. Set to maintain 1.00 inches W.G. at last terminal air unit.
- Enthalpy Wheel:
 - Interlock wheel with unit fans and operate to precondition outside air when both fans are ON.
 - Summer-Winter Changeover: On a rise in outside temperature above the return/exhaust air temperature, the enthalpy wheel control is automatically changed from winter to summer operation.
 - Summer Operation: The wheel shall operate at a preset speed.
 - Winter Operation: The wheel variable speed controller varies the wheel speed to maintain the supply temperature setpoint at 55°F.
- Hot Water Preheat Coil:
 - N.O. two-way valves, modulate to maintain 55°F minimum coil leaving temperature.
 - Hold valves closed when unit is OFF by time of day programming or safety factor other than low limit thermostat. Valves shall open if unit is OFF by low limit thermostat.
 - Preheat Coil Pumps (VHP-1, VHP-2): Pumps shall operate when air system is ON and coil entering air temperature is 52°F or below.
- DX Cooling Coil:
 - The DX cooling coil shall be enabled when the air system is ON to maintain the coil leaving air temperature at 55°F.
 - DX Coil Control: The digital controller shall open refrigerant solenoid valves and the air cooled compressors shall be staged in steps to meet the DX coil cooling load requirements. The condensing unit shall operate down to 20°F outdoor ambient conditions.
- Pan Humidifier Control:
 - Start-Stop: The humidifier units shall be enabled when air system is ON and ODT is below 50°F (adj.).
 - Operate on signal from DDC system to maintain minimum 35% general exhaust RH entering the air unit. A high limit RH sensor shall limit duct RH to 80% with hardwire safety interlock to the humidifier controller.
 - The humidifier SCR control unit shall stage electric coil on humidification demand to maintain setpoint.
- Control Panel ACP: Mount in mechanical room with the following items in the cover:
 - ON indicator lights: Low Temperature Detector.
- Mechanical systems and equipment which are served by emergency power circuits shall be provided with an Auto-Restart sequence, with programmed time delays of 15 sec. between each system for the sequential restart.
- Equipment Restart Sequence:
 - Vivarium air handling unit VAH and heating coil pump VHP.
 - Vivarium air handling unit condensing unit.
 - Vivarium air handling unit humidifier.

VAH-1&2 / CU-V1 & CU-V2 DDC SEQUENCE OF OPERATION
NOT TO SCALE

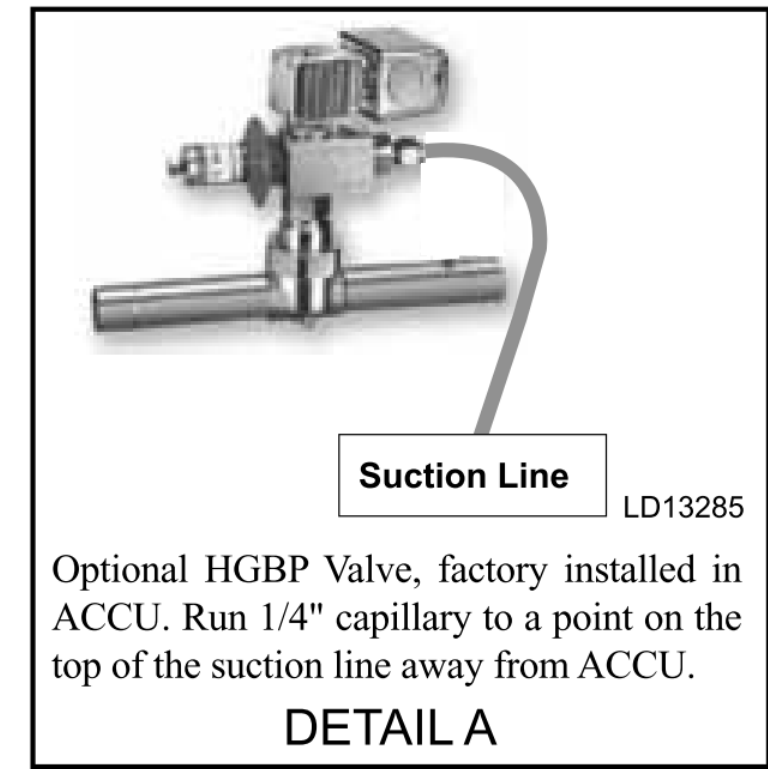
VAH-1&2 / CU-V1 & CU-V2 DDC SEQUENCE OF OPERATION
NOT TO SCALE



PIPING WHEN ACCU IS AT SAME LEVEL AS DX COIL
NOT TO SCALE



PIPING WHEN ACCU IS LOWER THAN DX STACKED COILS
NOT TO SCALE



Optional HGBP Valve, factory installed in ACCU. Run 1/4" capillary to a point on the top of the suction line away from ACCU.

DETAIL A

NOTE: ACCU's utilized separate HGBP control valves and solenoid valves.

FIGURE 36, DETAIL A
NOT TO SCALE

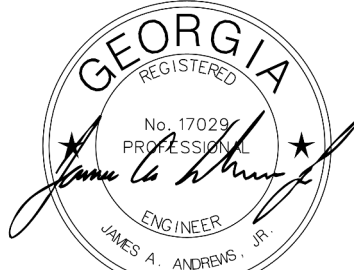
NOTES GENERAL: (THIS SHEET ONLY)

- A. INTERCONNECTING REFRIGERANT LINES SHOULD BE SIZED PER MANUFACTURERS APPLICATION GUIDELINES FOR LENGTH, PRESSURE DROP, VELOCITY CONSTRAINTS ETC. CONSULT MANUFACTURER AND PROVIDE ALL HORIZONTAL AND VERTICAL PIPE LENGTHS IN ADDITION TO ALL FITTINGS TO SIZE PIPING. MANUFACTURER SHALL PROVIDE CONTRACTOR WITH A DETAILED PIPE SIZING AND ROUTING LAYOUT WITH PIPE SIZES SHOWN, ALONG WITH REQUIRED REFRIGERANT PIPING COMPONENTS AND SUBMIT TO ENGINEER. SEE SCHEMATIC BELOW FOR CONDENSING UNIT LOCATION RELATIVE TO INDOOR COIL LOCATION. VERIFY WITH MANUFACTURER ALL CONDITIONS.

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No.	Description	Date

PROJECT NUMBER: 2025182
DATE: 1-23-2026
DRAWN BY: JSP
CHECKED BY: RRM
TITLE: MECHANICAL RISERS AND DIAGRAMS

M401

(INSTALLATION INSTRUCTIONS MAY VARY WITH OTHER MANUFACTURERS)

CONDENSING UNIT INSTALLATION ESSENTIALS

THE PURPOSE OF THE FOLLOWING INFORMATION IS TO INSURE THE SYSTEM IS PROPERLY DESIGNED AND INSTALLED FOR OPTIMAL OPERATION. IT IS IMPORTANT THAT THE SYSTEM IS INSTALLED TO MANUFACTURER STANDARDS. PLEASE CONTACT VRF MANUFACTURER FOR ANY QUESTIONS AND COMMENTS, AS WELL AS KEEPING MANUFACTURER UP-TO-DATE WITH THE PROGRESS OF THE INSTALLATION.

NOTES:

1.

MANUFACTURER PUBLISHED DATA (INSTALLATION MANUALS, INSTALLATION GUIDES, SUBMITTALS, WHITE PAPERS, ETC.) SUPERCEDES INFORMATION PROVIDED IN THIS DOCUMENT.
- 1.0

PRE-INSTALLATION CONSIDERATIONS (PIPING)
- 1.1

MANUFACTURER WILL PROVIDE THE CONTRACTOR WITH A PIPING DIAGRAM CREATED USING MANUFACTURER DESIGN SOFTWARE.
- 1.2

ALL PIPING SIZES TO BE INSTALLED MUST HAVE ORIGINATED FROM A DESIGNED FILE, PRODUCED BY AN MANUFACTURER TRAINED DESIGNER.
- 1.3

NO PIPE WORK SHALL BE DONE WITHOUT A PIPING DIAGRAM.
- 1.4

WHEN PIPE ROUTING OR UNIT LOCATIONS DEVIATE FROM THE MOST RECENT FILE, IT IS CRITICAL THAT A REVISED DESIGN BE PERFORMED PRIOR TO PIPE WORK FOR ANY PIPE SEGMENT CHANGES OF 10 LINEAR FEET.
- 1.5

IT IS IMPORTANT THAT LOCATIONS AND PIPE ROUTES BE FINALIZED PRIOR TO PIPE WORK INSTALLATION TO DETERMINE NEAR ACTUAL LENGTHS.
- 1.6

AS PIPING INSTALLATION COMMENCES, ALL CHANGES IN PROPOSED LENGTHS MUST BE FORWARDED TO MANUFACTURER FOR RE-CALCULATION AND A NEW FIELD DRAWING PRODUCED BEFORE PIPING IS INSTALLED.
- 1.7

PIPING LENGTHS MUST BE DOCUMENTED ON AS-BUILT DRAWINGS AND DELIVERED TO MANUFACTURER BEFORE START-UP OF EQUIPMENT CAN BE SCHEDULED.
- 1.8

PLEASE BE SURE TO PAY ATTENTION TO A POSSIBLE CHANGE IN UNIT CAPACITIES AND PIPE SIZES AS PIPE LENGTH CHANGES.
- 2.0

INSTALLATION TOOLS (IN ADDITION TO STANDARD TOOLS THAT ARE NECESSARY TO PERFORM PIPING INSTALLATION)
- 2.1

DEDICATED R-454B MANIFOLD GAUGE SET IS HIGHLY RECOMMENDED WITH HOSES SO AS NOT TO CONTAMINATE THE SYSTEM WITH OTHER OILS.
- 2.2

SCHRADER CORE REMOVAL TOOL (5/16").
- 2.3

NITROGEN REGULATOR (600 PSI TEST).
- 3.0

PIPE INSTALLATION
- 3.1

INSTALL DRIERS, SIGHT GLASSES, SOLENOID VALVES, ETC AS REQUIRED BY MANUFACTURER.
- 3.2

DO NOT INSTALL TRAPS IN THE MAIN PIPING LINES UNLESS MANUFACTURER REQUIRES.
- 3.3

USE ONLY ACR (HARD) COPPER.
- 3.4

ANNEALED TEMPERED (SOFT) COPPER IS NOT ALLOWED.
- 3.5

USE BEST PRACTICES DURING PIPE INSTALLATION. ENSURE THAT ENDS OF ALL COPPER ARE SEALED TO PROTECT THE PIPE FROM DUST, WATER, AND OTHER CONTAMINANTS.
- 3.6

ONLY USE APPROVED TUBING CUTTERS TO CUT TUBING. HACKSAWS, RECIPROCATING SAWS, ETC. ARE NOT PERMITTED.
- 3.7

ALWAYS REMOVE INNER AND OUTER BURRS FROM PIPE ENDS BEFORE BRAZING.
- 3.8

FLARE CONNECTIONS ARE NOT ALLOWED.
- 3.9

BRAZE PIPING WITH 15% SILVER SOLDER AND A NITROGEN PURGE DURING THE BRAZING PROCESS.
- 3.9.1

NITROGEN FLOW DURING BRAZING PROCESS SHALL BE AT 2-3 PSI TO PREVENT OXIDATION.
- 3.9.2

NITROGEN PURGE PRESSURE MUST BE INTRODUCED THROUGH BOTH THE LIQUID AND SUCTION LINES AT THE SAME TIME. REMOVE THE SCHRADER CORE IN THE ODU TO RELIEVE PRESSURE.
- 3.10

ALL PIPE WORK (SUCTION AND HOT GAS) MUST BE INSULATED. VERIFY WITH MANUFACTURER.
- 3.11

USE 1" WALL THICKNESS CLOSED CELL TUBING INSULATION (AS SPECIFIED) UNLESS OTHERWISE DIRECTED BY LOCAL CODE TO USE THICKER INSULATION.
- 3.12

SUCTION AND HOT GAS TUBES MUST BE SEPARATELY INSULATED AS REQUIRED.
- 3.13

PROPER HANGING AND SUPPORT OF PIPING IS CRITICAL.
- 3.13.1

APPROVED PRODUCTS FOR HANGING AND SUPPORT ARE: (OR AS SHOWN ON DRAWINGS)
- 3.13.1.1

CUSH-A-CLICK STRUT SYSTEM
- 3.13.1.2

CUSH-A-CLAMP STRUT SYSTEM
- 3.13.1.3

KLO-SHURE INSULATED COUPLINGS STRUT HANGER
- 3.13.1.4

CUSH-A-THERM
- 3.13.2

EXPANSION AND CONTRACTION OF COPPER PIPING SYSTEM MUST BE CONSIDERED IN THE PIPING LAYOUT DESIGN.
- 3.13.3

ANTICIPATED PIPE EXPANSION/CONTRACTION DUE TO TEMPERATURE CHANGE IS APPROXIMATELY 0.001 INCH PER DEGREE PER 10 FEET OF PIPE OR 0.0001 INCH PER DEGREE PER FOOT.
- 3.13.4

OMITTED.
- 3.13.5

PROPER ALLOWANCE FOR EXPANSION/CONTRACTION CAN NOT BE ALLOWED FOR IF PIPE IS HELD RIGIDLY BY PIPE CLAMPS. ALL PIPE JOINTS SHALL BE MARKED ON OUTSIDE OF INSULATION AT JOINT LOCATION WITH 2" YELLOW TAPE TO ASSIST IN IDENTIFYING JOINTS IF LEAK IS SUSPECTED. ALL REFRIGERANT PIPING SHALL BE IDENTIFIED WITH PIPE MARKERS INDICATING TYPE SUCTION/GAS AND IDU TAGS ON 25 FT. INTERVALS TO AID IN IDENTIFYING UNIT SERVED.
- 4.0

PRESSURE TESTING
- 4.1

LEAK TEST ONLY THE PIPING. LEAVE ALL OUTDOOR UNIT SERVICE VALVES CLOSED.
- 4.2

PRESSURIZE ALL REFRIGERANT LINES.
- 4.2.1

STEP 1: PRESSURIZE TO 100 PSI FOR (5) MINUTES.
- 4.2.2

STEP 2: PRESSURIZE TO 300 PSI FOR (5) MINUTES.
- 4.2.3

STEP 3: INCREASE PRESSURE TO 600 PSI FOR (24) HOURS.
- 4.3

AMBIENT TEMPERATURE PRESSURE CALIBRATION
- 5.3.1

USE THE FOLLOWING FORMULA TO ACCOUNT FOR TEMPERATURE DIFFERENCES BETWEEN BEGINNING AND END OF STEP 3 PRESSURE TEST.
- (Tp - Tc) X 0.80 = PRESSURE DROP (PD)
- Tp - TEMPERATURE AT BEGINNING OF TEST PERIOD
- Tc - TEMPERATURE AT END OF TEST PERIOD
- PD - ALLOWABLE PRESSURE DIFFERENCE BASED ON CHANGE IN TEMPERATURE.
- EXAMPLE:
- Tp = 90F, Tc = 80F - - - - PD = (90 - 80) X 0.80 = 6.4 psi
- IF PRESSURE DROPPED FROM 600 TO 590 IN 24 HR PERIOD,
- 600 - 590 = 10 PSI, 10 > 6.4, SYSTEM IS NOT SEALED.
- 4.3

IF ALL (3) STEPS ARE PASSED, EVACUATION SHALL COMMENCE.
- 5.0

TRIPLE EVACUATION PROCEDURE
- 5.1

EVACUATE THE SYSTEM TO 4000 MICRONS
- 5.1.1

BREAK VACUUM WITH DRY NITROGEN AND HOLD FOR 15 MINUTES.
- 5.2

EVACUATE THE SYSTEM DOWN TO 1500 MICRONS.
- 5.2.1

BREAK VACUUM WITH DRY NITROGEN AND HOLD FOR 15 MINUTES.
- 5.3

EVACUATE THE SYSTEM DOWN TO 500 MICRONS OR LESS

- 5.3.1

HOLD VACUUM FOR 60 MINUTES.
- 5.3.2

DO NOT REMOVE MANIFOLD GAUGES WITH SYSTEM UNDER VACUUM.
- 5.3.3

DO NOT LEAVE SYSTEM UNDER VACUUM.

6.0 PREPARATION FOR COMMISSIONING

- 6.1

ENSURE ALL INSTALLATION METHODS PREVIOUSLY LISTED IN THIS DOCUMENTATION HAVE BEEN COMPLETED.
- 6.2

COMPLETE THE ASSISTED START UP PRE-CHECK LIST.
- 6.3

COMPLETE THE AS-BUILT MARKUPS.
- 6.4

PROVIDE MODEL AND SERIAL NUMBERS OF ALL EQUIPMENT, MATCHED PER SYSTEM.

7.0 SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH ASHRAE 15.

ASSISTED VRF START-UP PRE-CHECK LIST

(INSTALLATION INSTRUCTIONS MAY VARY WITH OTHER MANUFACTURERS)

THE FOLLOWING CHECKLIST IS PROVIDED TO INSURE THAT ALL NECESSARY INSTALLATION ITEMS ARE COMPLETED PRIOR TO THE ASSISTED STARTUP OF SYSTEM(S).

THIS DOCUMENT IS FOR REFERENCE ONLY AND IS NOT AN INSTRUCTION MANUAL. PLEASE REFER TO MANUFACTURER'S INSTALLATION MANUALS FOR PROPER INSTALLATION METHODS, PROCEDURES, AND DATA. ALL INSTALLING COMPANIES MUST ATTEND TRAINING BEFORE INSTALLATION OF MANUFACTURER EQUIPMENT. ONLY BASIC INSTALLATION POINTS ARE NOTED WITHIN THIS DOCUMENT. LOCAL AND STATE CODES IN YOUR AREA WILL TAKE PRIORITY OVER INFORMATION IN THIS CHECKLIST. NOT ALL EQUIPMENT DISCUSSED IN THIS DOCUMENT WILL APPLY TO YOUR PROJECT.

PLEASE FILL OUT 1 FORM PER SYSTEM		
PROJECT/JOB/LOCATION NAME:		
SITE ADDRESS:		
INSTALLING CONTRACTOR COMPANY:		
INSTALLING CONTRACTOR NAME:		
# OF ODU:		
BY PLACING (BLOCK LETTERING) YOUR INITIALS IN THE COLUMN, YOU HAVE AGREED THAT THIS IS COMPLETED TO THE SPECIFICATION(S).		
1.0 PIPING		INITIALS
1.01	ALL REFRIGERANT PIPES ARE INSULATED PER MANUFACTURER RECOMMENDATIONS	
1.02	ALL REFRIGERANT PIPE INSULATION JOINTS ARE SEALED WITH APPROPRIATE ADHESIVES AND/OR TAPES	
1.03	ALL CONDENSATION DRAIN PIPES ARE INSTALLED, INSULATED, AND SUPPORTED	
1.04	REFRIGERANT PIPE SYSTEM WAS PRESSURE CHECKED PER MANUF.'S RECOMMENDATION (150 PSIG FOR 15 MINUTES, 300 PSIG FOR 15 MINUTES, 600 PSIG FOR 24 HOURS)	
1.05	VACUUM PROCESS WAS PERFORMED ON THE REFRIGERANT PIPE SYSTEM PER MANUFACTURER'S RECOMMENDATIONS (TO 500 MICRONS FOR 60 MINUTES)	
1.06	ADDITIONAL REFRIGERANT WAS ADDED TO THE SYSTEM AS CALCULATED BY MANUFACTURER'S SOFTWARE. (LENGTH OF EACH DIAMETER OF LIQUID REFRIGERANT PIPE MUST RECORDED TO ACCURATELY CALCULATE ADDITIONAL REFRIGERANT) <u>DO NOT ADD REFRIGERANT PRIOR TO COORDINATING WITH MANUFACTURER.</u>	
1.07	CONDENSING UNIT SERVICE VALVES ARE OPEN WITH VALVE COVERS REINSTALLED AND TIGHTENED	
2.0 CONDENSING UNIT		INITIALS
2.01	YOU MUST HAVE IN YOUR POSSESSION A COPY OF THE 'AS-DESIGNED' MANUFACTURER PIPING TREE DIAGRAM. BEFORE ANY FIELD PIPESIZE OR LENGTH CHANGES ARE MADE, PROPOSED CHANGES MUST BE FORWARDED TO THE MANUFACTURER DESIGN ENGINEER SO THAT THEY CAN INPUT THE CHANGES INTO SOFTWARE AND RE-ISSUE A NEW PIPING TREE DIAGRAM.	
2.02	CONDENSING UNIT IS PROPERLY INSTALLED AND MEETS ALL GUIDELINES	
2.03	CORRECT SUPPLY VOLTAGE TO THE CONDENSING UNIT(S) HAS BEEN CONNECTED.	
2.04	ALL COMMUNICATION WIRES HAVE BEEN CONNECTED	
2.05	OMITTED	
2.06	ALL CENTRAL CONTROL COMMUNICATION WIRES HAVE BEEN CONNECTED AT TERMINALS IN MAIN OUTDOOR UNIT(S)	
3.0 MANUFACTURER/CONTRACTOR		
3.01		
3.02	COORDINATE PROJECT SITE VISITS WITH MANUFACTURER 2 WEEKS IN ADVANCE OF EACH SITE VISIT.	
3.03	COORDINATE WARRANTY SUBMISSION DOCUMENTATION WITH MANUFACTURER PRIOR TO PROJECT COMMISSIONING SITE VISIT.	
3.04	COORDINATE PIPING LENGTH AS-BUILTS MARK-UPS PRIOR TO PROJECT COMMISSIONING SITE VISIT.	
3.05	DO NOT POWER EQUIPMENT OR ADD REFRIGERANT PRIOR TO COORDINATING WITH MANUFACTURER.	

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BIOLOGICAL SCIENCES FIELD HOUSE
CONDENSER REPLACEMENTS DESIGN

4322 Old Register Rd, Statesboro, GA 30458

REVISIONS		
No.	Description	Date

PROJECT NUMBER:	2025182
DATE:	1-23-2026
DRAWN BY:	JSP
CHECKED BY:	RRM
TITLE:	

PIPING INSTRUCTIONS

M402

CONDENSING UNIT REFRIGERANT PIPING INSTALLATION INSTRUCTIONS

SCALE: NONE

THIS DETAIL APPLIES TO ALL EXTERIOR WALL PENETRATIONS OF PIPING (REFRIGERANT)

REFRIGERANT PIPE HANGER DETAIL
NOT TO SCALE

CONDENSATE DRAIN TRAP DETAIL
NOT TO SCALE

INTERIOR REFERGERANT AND CONDENSATE PIPING INSULATION DETAIL
NOT TO SCALE

EXTERIOR ABOVE GRADE PIPING INSULATION DETAIL
NOT TO SCALE

REFRIGERANT PIPE SUPPORT DETAIL
NOT TO SCALE

TRAPEZE REFRERGERANT PIPE HANGER DETAIL- REFRIGERANT (MULTIPLE PIPES)
NOT TO SCALE

GENERAL:
PROVIDE COOLING ONLY MODEL OR
DISABLE HEATING. TEMPORARY
POWER CAN ONLY HANDLE
COOLING ONLY. TRANE BASIS OF
DESIGN, ALL OTHERS REQUIRE
PRIOR APPROVAL.

35 Ton Trane High Static Voyager™ with Electric Heat – CSHX0035F4

Labels	Value
Nominal Cooling Tons	35
Heating Capacity	90 kW
Refrigerant	R-410A
Number of Refrigerant Circuits	2
Number of Compressors	2
Ambient Operating Conditions	0°F–115°F

Table 85. Electrical data – circuit breaker style disconnect

Labels	Value
Number of Electrical Circuits	1
Voltage	480V 3 Phase
Frequency	60 Hz
Wire Connection Type	Series 16 Cam Type Only
SCCR	5000 A
Minimum Circuit Ampacity (MCA)	180.1 A
Maximum Overcurrent Protection (MOP)	200 A
Cooling Only FLA	79.0 A
Heating Only FLA	131.1 A
Electric Reheat (80 kW Electric Heat + All Cooling) FLA	154.1 A

Features

- 0 to 100% Economizer, Dry/Built Control
- Hot Gas Reheat (Performance available upon request)
- Blower VFD with across the line bypass
- Hinged Service Access
- Electric Heat with Reheat Option
- Phase Protection
- Series 16 Cam Type Electrical Connections
- Unit Mounted Thermostat with Remote Option
- Trane BAiNet® Control Interface RS-485 MS/TP and Remote Monitoring Available Upon Request
- Clogged Filter Switch Kit
- Hot Gas Bypass
- Manual Supply Air Dampers
- Two Stage Cooling and Heating
- Low Ambient Operation Down to 0°F
- ReliaTel™ Trane Controls

Table 86. Airflow data:

Labels	Value
Supply Motor	15 HP
Nominal CFM	7000
Maximum ESP at Nominal CFM	5 in.
Supply Air Connection Qty/Size	(2) 20 in.
Return Air Connection Qty/Size	(2) 20 in.
Merv-7 Throwaway Filter Qty/Size	(16) 16 in. x 20 in. x 2 in.
Maximum Supply/Return Duct Run at Maximum CFM	650 ft.

Table 87. Dimensions and weights

Labels	F4BC-BE	F4BF-BR
Length	18 ft. 4 in.	18 ft. 4 in.
Width	8 ft. 3.625 in.	7 ft. 7.25 in.
Height	7 ft. 4.5 in.	6 ft. 9.75 in.
Shipping Weight	7,900 lbs	6,520 lbs
Fork Pocket Dimensions	9.5 in. x 5.5 in.	9.5 in. x 5.5 in.
Center to Center Distance of Fork Pockets	60 in.	4 ft. 10.25 in.

- Notes:**
- Lifting Device: Forklift or crane.
 - Confirm all dimensions and weights with TRS turnkey facility because this data might not match what is listed in this document.
 - For additional installation information, see RT-SVX34*-EN.

Table 88. Operating clearances

Labels	Value
Condenser Coil End	8 ft. 0 in.
Economizer End (if equipped)	6 ft. 0 in.
Front (Control Panel)	4 ft. 0 in.
Back (Supply/Return Duct Connections)	4 ft. 0 in.
Top	No Obstructions

Note: Operating clearances are provided based on single machine, above ground.
For multiple unit or oil operation, contact Trane Rental Services.

Note: Operating clearances are provided based on single machine, above ground. For multiple unit or pit operation, contact Trane Rental Services.

Table 89. Gross cooling capacities

[illegible]

Note

1. All capacities shown are gross heat.
2. TGC = Total gross capacity.
3. SHC = Sensible heat capacity.

Table 90. Electric heating performance

CSHX0035F4 Heating Performance	
CFM	Temp Rise (°F)
7000	40

Table 91. Sound data

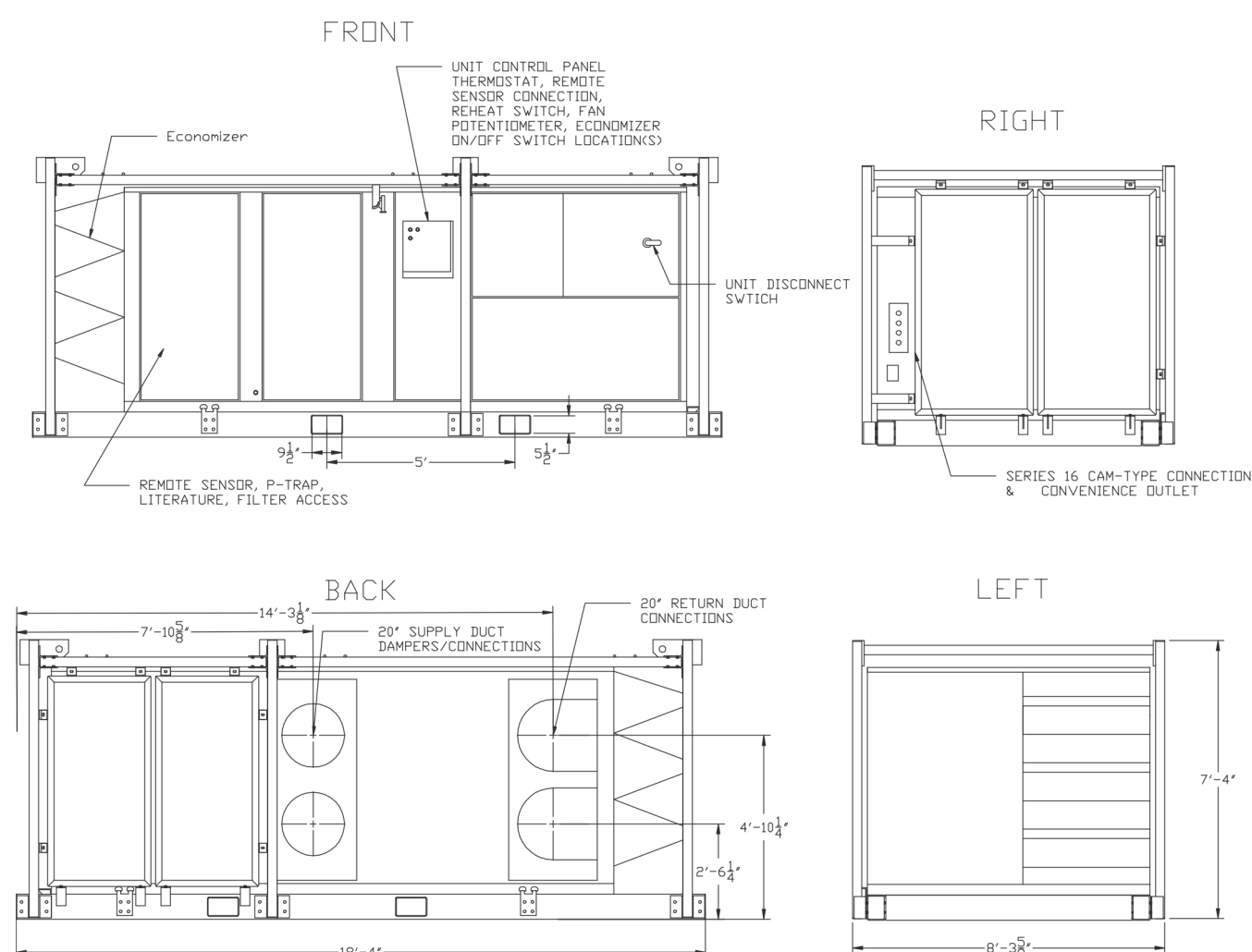
CSHX0035F4 Sound Data								
Sound Path (Hz)	63	125	250	500	1K	2K	4K	8K
Ducted Discharge (dB)	89	95	95	91	91	84	77	71
Outdoor Noise (dB)	100	96	96	96	93	89	90	83



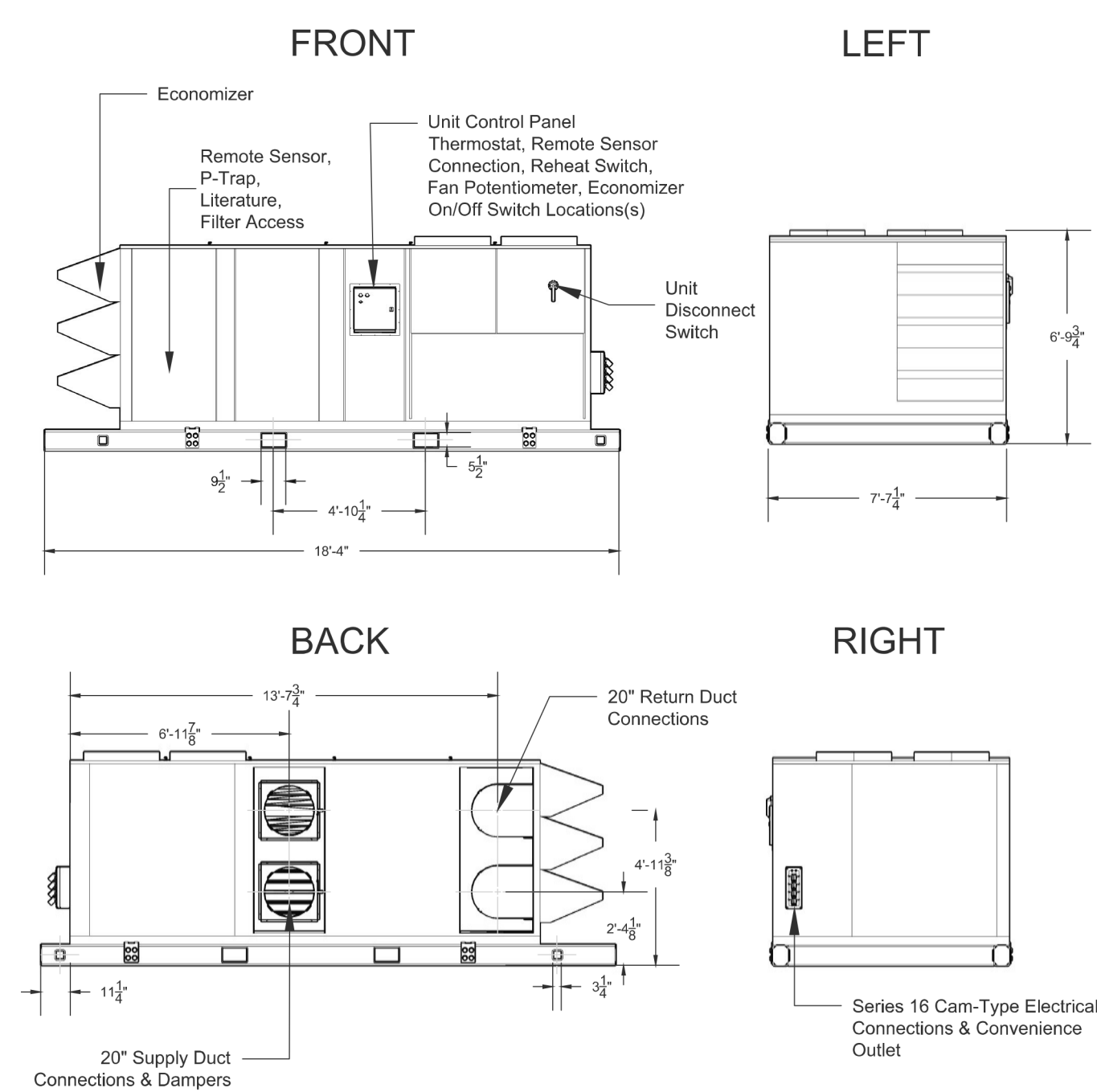
Performance Data

TRANE®
Performance Data

Unit Drawings – CSHX0035F4BC-BE



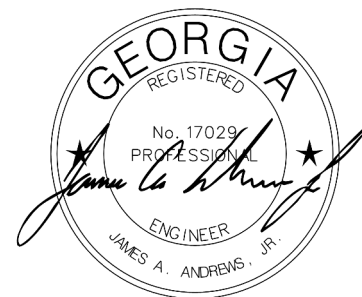
Unit Drawings – CSHX0035F4BF-BR



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BIOLOGICAL SCIENCES FIELD HOUSE CONDENSER REPLACEMENTS DESIGN

4322 Old Register Rd, Statesboro, GA 30458

REVISIONS

[illegible]

PROJECT NUMBER:	2025182
DATE:	1-23-2026
DRAWN BY:	JSP
CHECKED BY:	RRM
TITLE:	

MECHANICAL DETAILS

M501

DX COOLING COILS

[illegible]

CONDENSING UNITS

[illegible]

MECHANICAL LEGEND

	NEW WORK NOTES
	DEMOLISHED WORK NOTES
	REFRIGERANT PIPING
	PIPE ELBOW - 45° OR 90°
SS	STAINLESS STEEL
FPM	FEET PER MINUTE
CFM	CUBIC FEET PER MINUTE (AIRFLOW)
OA	OUTSIDE AIR
MBH	BTU's PER HOUR x 1000
APPROX.	APPROXIMATELY
ESP (IN. W.G.)	EXTERNAL STATIC PRESSURE (INCHES OF WATER GAUGE)
RPM	REVOLUTIONS PER MINUTE (MOTOR SPEED)
AFF	ABOVE FINISHED FLOOR
KW	KILOWATTS
ΔT	TEMPERATURE DIFFERENCE
B. E. T. E.	BOTTOM ELEVATION - TOP ELEVATION
NIC	NOT IN CONTRACT
RH	RELATIVE HUMIDITY
NTS	NOT TO SCALE
	LIMIT OF SCOPE OF WORK
	SECTION OR DETAIL IDENTIFICATION NUMBER
M1	SHEET NUMBER ON WHICH SECTION OR DETAIL IS SHOWN

DEMOLITION LEGEND

————	EXISTING EQUIPMENT, PIPING OR DUCTWORK TO REMAIN
————	EXISTING EQUIPMENT, PIPING OR DUCTWORK TO BE REMOVED

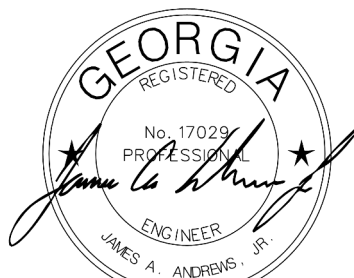
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2. THESE DRAWINGS ARE DIAGRAMMATIC, AND ARE NOT TO BE SCALED.
3. REFER TO THE ELECTRICAL DRAWINGS FOR VOLTAGE, PHASE, MAXIMUM ALLOWABLE CURRENT DRAFT, AMPERAGE AND CONNECTION ARRANGEMENT (SINGLE, MULTIPoint, ETC.) OF ALL MECHANICAL EQUIPMENT PRIOR TO ORDERING/INSTALLING EQUIPMENT.
4. SUPPORT ALL PIPING FROM PRIMARY BUILDING STRUCTURAL MEMBERS AND PROVIDE SUPPLEMENTAL STRUCTURAL FRAMING AS REQUIRED BY PRIMARY BUILDING STRUCTURAL MEMBERS TO SUPPORT ALL SYSTEMS INSIDE THE BUILDING.
5. PROVIDE PIPE SLEEVE THRU ALL WALLS AND THRU ALL FLOOR SLABS. SEE PIPE SLEEVE DETAIL.
6. PROVIDE PIPE HANGERS FOR ALL SUSPENDED PIPING AS SHOWN IN DETAILS. PROVIDE PIPE STAND FOR ALL FLOOR/GRADE MOUNTED PIPING AS SHOWN IN DETAILS.

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MECHANICAL SCHEDULES

M601