



Tri-County Technical College
Building Infrastructure Upgrades-Multiple Campuses-Miller Hall HVAC
Project # H59-6245-LC-C

Addendum No. 1

DATE: August 23, 2024
FROM: PERITUS ENGINEERS & ASSOCIATES, INC.
TO: ALL BIDDERS

The following items add to, modify, clarify, or otherwise alter the Drawings and/or specifications and will become a part of the Contract Documents. Where a portion of the Drawings and/or specifications is added to, modified, clarified, or otherwise altered, the portion not so affected shall remain. Bidders shall include all effects that these items may have on his proposal.

Acknowledge receipt of this addendum in the space provided on the Bid Form. Failure to do so may subject Bidder to disqualification.

ITEMS DISCUSSED DURING THE PRE-BID MEETING 8-21-2024

1. Mr. Ken Kopera confirmed the bid date. The bid date is 09/5/2024 at 2:00. The bids can be delivered or mailed both choices are described on the invitation to bid.
2. Mr. Kopera reviewed the actual anticipated construction schedule. The start date will be determined once the contract is signed, and the delivery dates of the equipment are confirmed. There are opportunities to begin construction on 12-3-24 and have 4-5 weeks for construction.
3. Mr. Ed Mathis reviewed the scope of the project.
4. The last addendum will be issued no later than August 28, 2024.
5. The last date for questions will be August 27, 2024. Any questions should be submitted to Peritus Engineers and Assoc., Inc, attention Ed Mathis (contact information in bid package).
6. There was a question concerning the scope of replacement duct on the exterior of the building. The answer was that **“all exterior ductwork should be replaced and have exterior duct insulation and metal covering as specified”**.
7. Everyone in attendance walked the existing site areas.
8. Because of the manufacturer changes in the scheduled HVAC units, the unit schedule has been revised on the new version of M-3 and E-3. (attached as part of this Addendum).

END OF ADDENDUM NO. 1

PERITUS ENGINEERS & ASSOCIATES, INC.

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PACKAGE GAS FIRED A/C UNIT SCHEDULE

UNIT No.	NOMINAL TONNAGE	DAIKIN MODEL No.	C.F.M.		MAX. E.S.P. INCHES	SUPPLY FAN H.P.	EXHAUST FAN H.P.	E.E.R. @AHR1	I.E.E.R. @AHR1	VOLTAGE	COOLING DATA					HEATING DATA			ELECTRICAL DATA			WEIGHT LBS	REMARKS
			TOTAL	MIN. O/A							ENT. AIR		LVG. AIR		INPUT MBH	OUTPUT MBH	STAGES	M.C.A.	M.F.S.	VOLTAGE			
											DB F	WB F	DB F	WB F									
AC-1	30	DPSA030	10500	1875	4.57	206.1	203.9	10.6	16.6	208/3/60	347.9	79.8	64.8	53.8	53.7	400.0	324.0	10:1 MODULATING	256.0	300	208/3/60	8600	NOTES 1-19
AC-2	30	DPSA030	10500	1875	4.57	206.1	203.9	10.6	16.6	208/3/60	347.9	79.8	64.8	53.8	53.7	400.0	324.0	10:1 MODULATING	256.0	300	208/3/60	8600	NOTES 1-19

ACCESSORIES

1. THROW AWAY FILTERS, 2" THICK MERV 8.
2. 0-100% MODULATING O.A. ECONOMIZER.
3. PLATFORM CURB SUPPORT.
4. EXTENDED 10 YR. COMPRESSOR WARRANTY AND GAS HEAT EXCHANGER WARRANTY.
5. R-410A REFRIGERANT.
6. EXISTING DUCT SMOKE DETECTORS, INTERLOCK WITH UNITS FOR IMMEDIATE SHUTDOWN UPON ACTIVATION.
7. FACTORY INSTALLED DISCONNECTS.
8. CONDENSER COIL GUARDS FOR HAIL PROTECTION.
9. HINGED SERVICE ACCESS.
10. HORIZONTAL SUPPLY AND RETURN CONNECTION.

11. VARIABLE AIR VOLUME CONTROL INCLUDING DISCHARGE AIR TEMPERATURE CONTROL & DUCT STATIC PRESSURE CONTROL.
12. TWO INDEPENDENT REFRIGERANT CIRCUITS.
13. CONTROL INTERFACE TO CAMPUS "AUTOMATED LOGIC" CONTROL SYSTEM. (BACNET)
14. 2" THICK DOUBLE WALL CONSTRUCTION CASING, R-13 INSULATION.
15. STAINLESS STEEL DRAIN PAN.
16. GFI SERVICE RECEPTACLE (120V POWER BY ELECTRICAL CONTRACTOR).
17. ECM SUPPLY FAN AND EXHAUST FAN MOTORS.
18. FACTORY START UP SERVICES.
19. 1ST YEAR PARTS & LABOR WARRANTY.

MECHANICAL SPECIFICATIONS

MECHANICAL GENERAL PROVISIONS

COORDINATION OF MECHANICAL WORK:

GENERAL: IT IS RECOGNIZED THAT THE CONTRACT DOCUMENTS ARE DIAGRAMMATIC IN SHOWING CERTAIN PHYSICAL RELATIONSHIPS WHICH MUST BE ESTABLISHED WITHIN THE MECHANICAL WORK, AND IN ITS INTERFACE WITH OTHER WORK INCLUDING UTILITIES AND ELECTRICAL WORK, AND THAT SUCH ESTABLISHMENT IS THE EXCLUSIVE RESPONSIBILITY OF THE CONTRACTOR.

QUALITY ASSURANCE, STANDARDS AND SYMBOLS:

GENERAL: THE FOLLOWING STANDARDS ARE IMPOSED, AS APPLICABLE TO THE WORK IN EACH INSTANCE:
 INTERNATIONAL BUILDING CODE (IBC), 2021 EDITION WITH SCBC MODIFICATIONS
 NFPA CODE
 INTERNATIONAL ENERGY CONSERVATION CODE (IECC), 2009 EDITION
 INTERNATIONAL MECHANICAL CODE (IMC) 2021 EDITION WITH SCBC MODIFICATIONS
 NATIONAL ELECTRICAL CODE, NFPA 70, 2020 EDITION WITH SCBC MODIFICATIONS
 INTERNATIONAL FUEL GAS CODE (IFGC), 2021 EDITION WITH SCBC MODIFICATIONS

ELECTRICAL PROVISIONS OF MECHANICAL WORK:

WIRING: THE CONTRACTOR IS RESPONSIBLE FOR ALL CONTROL WIRING. ALL CONTROL WIRING SHALL BE IN CONDUIT.

SYSTEMS INSULATION

DESCRIPTION:

DUCTWORK:

EXTENT OF INSULATION WORK IS INDICATED AS DESCRIBED HEREIN. IN GENERAL, THE WORK TO INCLUDE INSULATING ALL NEW SUPPLY/RETURN DUCT THAT CONNECTS TO HVAC EQUIPMENT.

DUCT INSULATION SHALL COMPLY WITH PARAGRAPH 503.2.7 IN THE 2009 INTERNATIONAL ENERGY CONSERVATION CODE.

DUCTWORK LOCATED OUTDOORS SHALL BE INSULATED WITH 2" THICK POLY-ISOCYANURATE INSULATION WITH "FLEX-CLAD" (OR EQUAL) WEATHERPROOF EXTERIOR DUCT CLADDING. SEAL INSULATION JOINTS WITH FIRE RETARDANT MASTIC.

DUCTWORK

ALL SHEET METAL WORK SHALL BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS STIPULATED IN THE CURRENT ISSUE OF NFPA PAMPHLET NO. 90.

SHEET METAL CONSTRUCTION: DUCTWORK SHALL BE CONSTRUCTED OF GALVANIZED STEEL. GAUGES (U.S. STANDARDS) OF METAL WHICH SHALL BE USED, TOGETHER WITH THE TYPE OF JOINTS AND METHODS OF STIFFENING AND BRACING FOR VARIOUS SIZE DUCTS SHALL BE AS FOLLOWS:

FABRICATION SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF SMACNA HVAC DUCT CONSTRUCTION STANDARDS FOR THE CLASS AND STATIC PRESSURES REQUIRED.

ALL DUCTS SHALL HAVE ALL SEAMS AND JOINTS SEALED AIRTIGHT WITH UNITED SHEET METAL SEALER TO BE APPLIED AS PER MFG. BULLETIN DS-3. NO DUCT TAPE WILL BE ALLOWED.

FUEL GAS PIPING AND EQUIPMENT

ABOVE GROUND - COMPLY WITH APPLICABLE PROVISIONS OF "INTERNATIONAL FUEL GAS CODE 2018 EDITION", ANSI Z 223.1 (NFPA STANDARD NO. 54). PIPE SIZE 2" AND SMALLER: BLACK STEEL PIPE, SCHEDULE 40, SOCKET WELDED JOINTS AND FITTINGS. PIPING LOCATED OUTDOORS SHALL RECEIVE 2 COATS OF RUST PREVENTATIVE PAINT. PAINT COLOR SELECTION SHALL BE APPROVED BY OWNER PRIOR TO COMMENCING WORK.

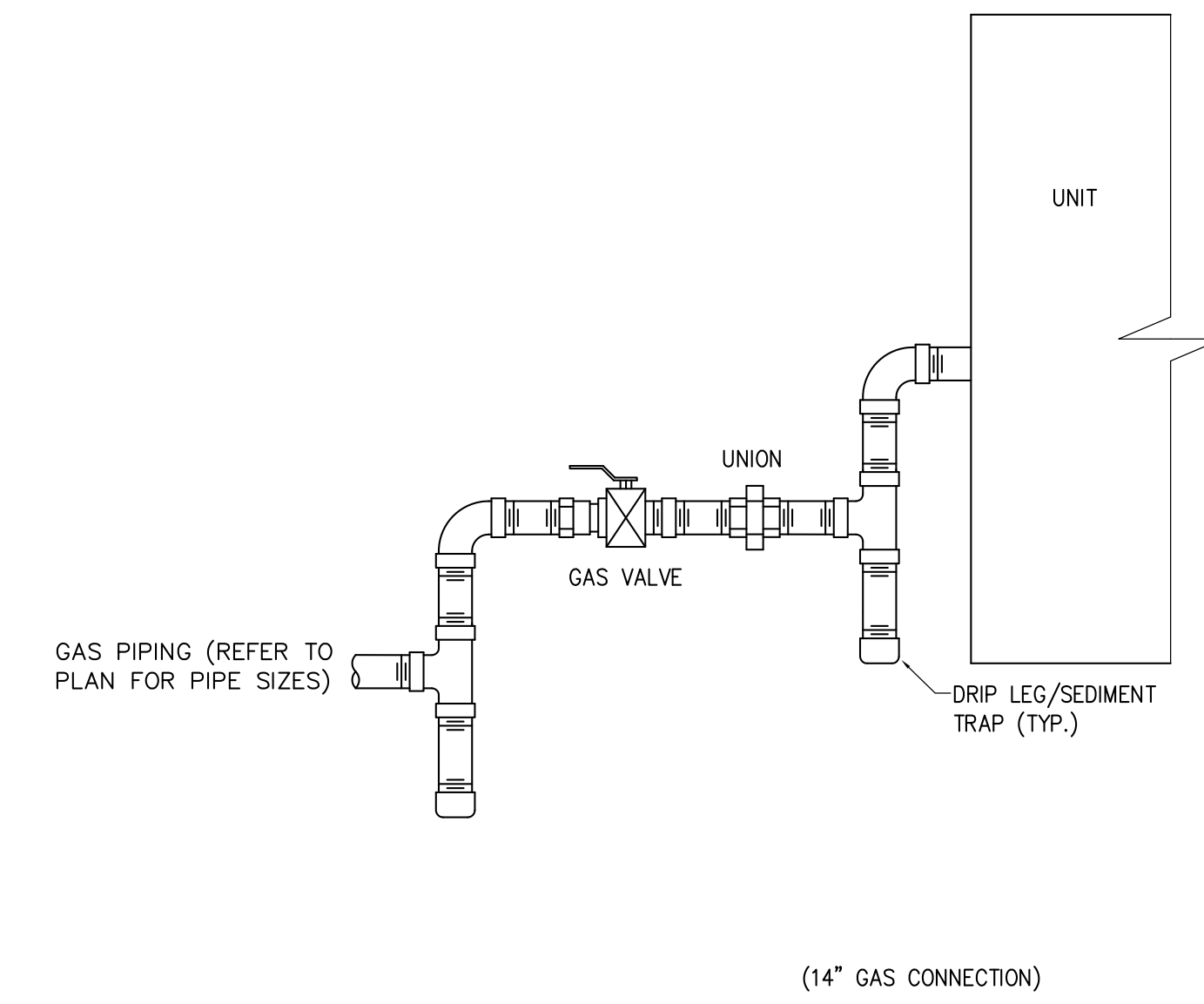
BUILDING AUTOMATION:

NEW A/C UNITS SHALL CONNECT AND INTERLOCK TO EXISTING "AUTOMATED LOGIC" BUILDING AUTOMATION SYSTEM, INCLUDING REQUIRED SHUTDOWN INTERLOCK WIRING FROM SMOKE DETECTOR, IN ADDITION, CONTROLS SUBCONTRACTOR SHALL PROVIDE AND INSTALL "DDC" CONTROLLER, SENSORS, AND END DEVICES OVER-LAYED ON ROOF TOP UNITS TO CONNECT TO EXISTING "AUTOMATED LOGIC" SYSTEM. CONTROLS SUBCONTRACTOR SHALL INSTALL CONTROL END DEVICES PROVIDED WITH EQUIPMENT.

NEW DIGITAL NATURAL GAS FLOW METER SHALL BE PROVIDED BY BAS SUB-CONTRACTOR AND INSTALLED IN PIPING BY MECHANICAL CONTRACTOR. METER SHALL BE EQUAL TO "SAGE" MODEL NO. SIP-100-DC24-NG (1" SIZE), AND SHALL MONITORED BY EXISTING CAMPUS "AUTOMATED LOGIC" CONTROLS SYSTEM.

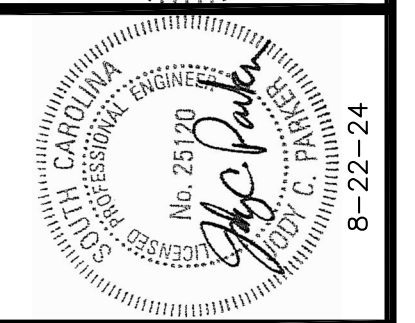
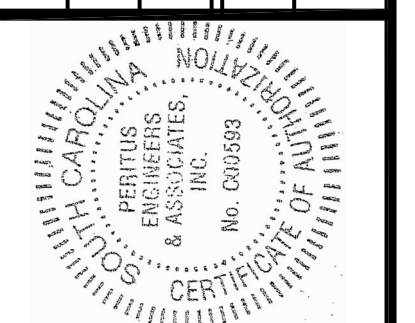
TEST AND BALANCE

PROVIDE INDEPENDENT NEBB CERTIFIED TEST AND BALANCE AGENCY TO PERFORM HVAC AIR BALANCE ON UNITS AC-1 & AC-2, INCLUDING SUPPLY, RETURN, AND OUTSIDE AIRFLOWS.



GAS PIPING CONNECTION DETAIL - AC-1 & AC-2
NO SCALE

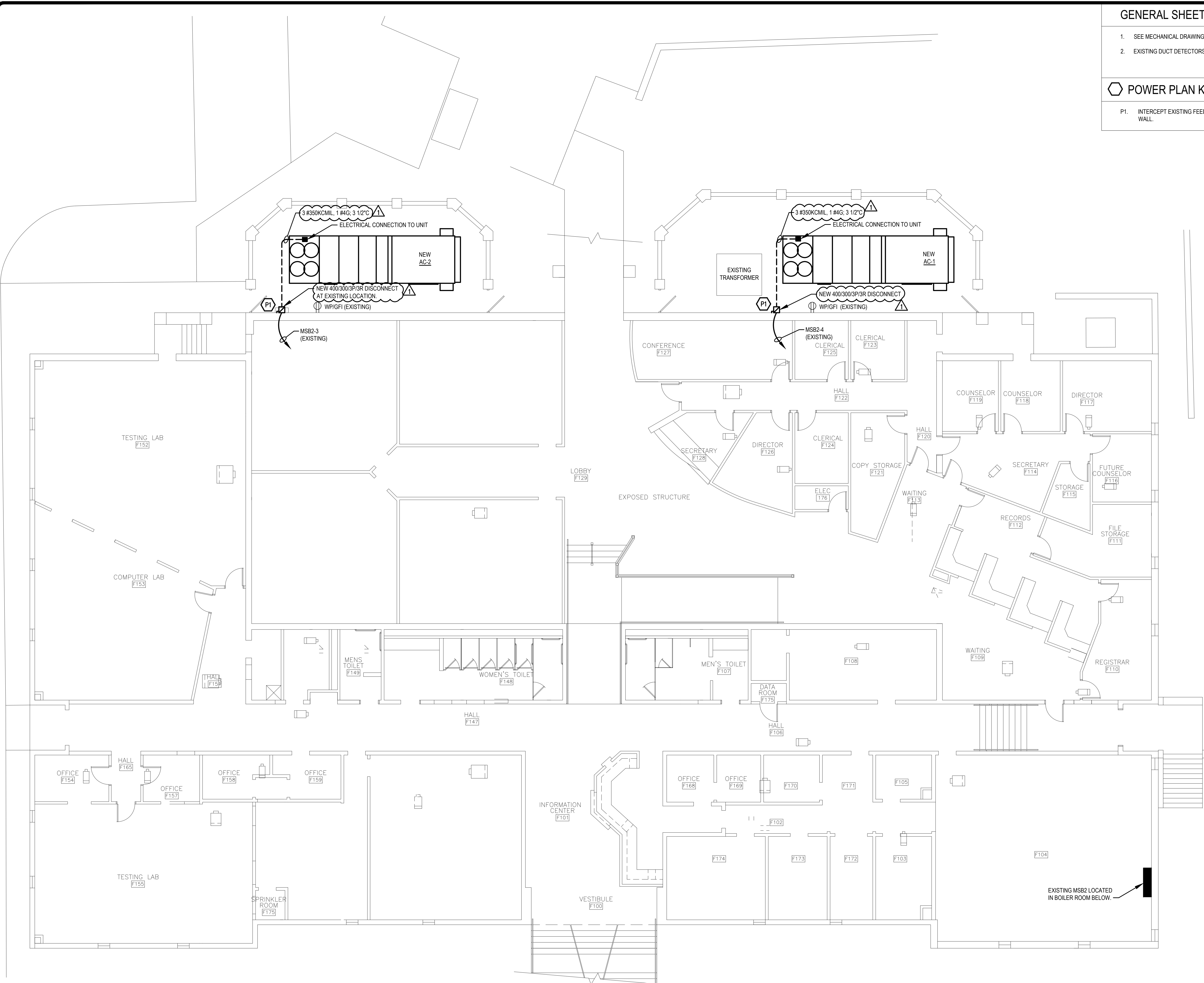
NO.	DATE	BY	DESCRIPTION	REVISIONS
1	8-22-24	SEM		APPENDIX #1 REVISION



SC State Project No. H59-6245-LC-C
 MULTIPLE CAMPUSES
 MILLER HALL HVAC
 PENDELTON, SOUTH CAROLINA

DESIGN SEM	/	DRAWN TCM
CHECKED JCP		
DATE 8-22-24		
JOB NO.		
SHEET		
M-3		
3 OF 3 SHEETS		

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GENERAL SHEET NOTES

- SEE MECHANICAL DRAWINGS FOR EXACT LOCATIONS OF ALL MECHANICAL EQUIPMENT.
- EXISTING DUCT DETECTORS IN DUCTWORK SHALL REMAIN.

POWER PLAN KEYNOTES

P1. INTERCEPT EXISTING FEEDER AT BUILDING AND REWORK CONDUCTORS AND CONDUIT TO NEW DISCONNECT ON BUILDING WALL.

1 ELECTRICAL POWER PLAN
 SCALE: 1/8" = 1'-0"
 PROJECT NORTH

EXISTING MSB2 LOCATED IN BOILER ROOM BELOW.

SC State Project No. 459-6245-LC-C MULTIPLE CAMPUSES MILLER HALL HVAC PENDELTON, SOUTH CAROLINA							
DESIGN	RAB	CHECKED	LCM	DATE	8-1-24	JOB NO.	
DRAWN	TMP	SHEET	E-3				
3 OF 5 SHEETS							