

MECHANICAL NOTES

ELECTRICAL COORDINATION:

- VERIFY THE ELECTRICAL SERVICE PROVIDED BY THE ELECTRICAL CONTRACTOR BEFORE ORDERING ANY MECHANICAL EQUIPMENT REQUIRING ELECTRICAL CONNECTIONS.
- PROVIDE PREMIUM EFFICIENCY MOTORS WITH 1.15 SERVICE FACTOR ON ALL EQUIPMENT. MOTORS SHALL BE CAPABLE OF OPERATING CONTINUOUSLY AT 105°F UNDER JOBSITE CONDITIONS AND ALTITUDE.
- UNLESS NOTED OTHERWISE, ALL MECHANICAL EQUIPMENT SHALL BE PROVIDED WITH H-O-A SWITCH AND STARTER COMPATIBLE WITH EQUIPMENT AND BMS SYSTEM. STARTERS SHALL BE PROVIDED BY DIVISION 21, 22, 23 UNLESS IN A MOTOR CONTROL CENTER. ALL DISCONNECTS SHALL BE FURNISHED BY DIVISION 26.
- THE ELECTRICAL POWER FOR CERTAIN EQUIPMENT PROVIDED UNDER DIVISION 21.22 AND 23 MAY NOT HAVE BEEN SPECIFICALLY INDICATED ON THE ELECTRICAL DRAWINGS AND MUST BE PROVIDED BY AND FIELD COORDINATED BY THE DIVISION 21.22 AND 23 TRADE REQUIRING SUCH SUFFICIENT POWER FOR THIS PURPOSE SHALL BE FURNISHED AS "SPARE" DEDICATED CIRCUIT CAPACITY IN DIVISION 26'S PANELBOARDS. ALL WIRING, CONDUIT AND ELECTRICAL DEVICES DOWNSTREAM OF THE PANELBOARDS IS THE RESPONSIBILITY OF THE DIVISION 21.22 AND 23 TRADE REQUIRING THE POWER UNLESS OTHERWISE SHOWN ON THE ELECTRICAL DRAWINGS. SUCH EQUIPMENT IS HEREBY DEFINED AS:
 - ELECTRICAL HEAT TRACE. REQUIRED HEAT TRACE LOCATIONS, CAPACITIES AND SPECIFICATION ARE SHOWN OR INDICATED ON THE DRAWINGS. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
 - FIRE PROTECTION AIR COMPRESSORS, DRY-PIPE CONTROL PANELS AND REQUIRED CONNECTIONS ARE INCLUDED IN THE DIVISION 21 WORK, AND WILL BE SHOWN BY THAT CONTRACTOR'S ENGINEERED SYSTEM DESIGN DRAWINGS.
 - PRE-ACTION SYSTEM INITIATION SIGNALS (SUCH AS SMOKE DETECTORS, OR GENERAL ALARM CONDITIONS IN A PRE-ACTION SHALL BE PROVIDED UNDER DIVISION 28 FIRE-ALARM WORK.
 - DIVISION 21 SHALL PROVIDE PRE-ACTION CONTROL PANEL AND INTERCONNECTION BETWEEN NEAREST SUITABLE FIRE ALARM PANEL AND LOCATION OF PRE-ACTION VALVE(S).
 - DIVISION 28 SHALL PROVIDE INTERCONNECTION BETWEEN FIRE COMMAND CENTER ALARM PANEL (PROVIDED UNDER DIVISION 28) AND REMOTE COMMUNICATION FIRE ALARM PANEL (PROVIDED UNDER DIVISION 28).
 - TEMPERATURE CONTROL PANELS, CONTROL AIR COMPRESSORS AND LINE VOLTAGE POWER FOR 24V CONTROL TRANSFORMERS. REQUIRED CONNECTION ARE INCLUDED IN DIVISION 23 AND WILL BE SHOWN BY THAT CONTRACTOR'S CONTROL SUBMITTAL DRAWINGS.
 - IT IS NOT PERMISSIBLE TO UTILIZE "SPARE" POWER FROM ADJACENT POWER CIRCUITS TO SERVE ANY OF THE ABOVE LOADS. ALL POWER MUST COME FROM DEDICATED CIRCUITS.
- SMOKE DETECTORS:
 - FOR AIR HANDLING UNITS AND AIR SYSTEMS WITH A CAPACITY EXCEEDING 2000 CFM, PROVIDE UL LISTED SMOKE DETECTORS IN SUPPLY AIR SYSTEMS IN ACCORDANCE WITH THE INTERNATIONAL MECHANICAL CODE AND ELSEWHERE AS SHOWN ON THE DRAWINGS. SMOKE DETECTORS WILL BE FURNISHED AND SET IN PLACE UNDER THIS DIVISION. DETECTORS WILL BE WIRED UNDER DIVISION 28. SMOKE DETECTORS MUST BE OF THE SAME MANUFACTURER, AND COMPATIBLE WITH THE FIRE ALARM SYSTEM PROVIDED UNDER DIVISION 28 (IF APPLICABLE). CONNECT RELAY(S) TO FAN CONTROL CIRCUIT TO STOP FAN WHEN SMOKE IS DETECTED.

GENERAL INSTALLATION:

- SUSPEND EACH TRADE'S WORK SEPARATELY FROM THE STRUCTURE. DUCTWORK SHALL BE HELD TIGHT TO STRUCTURE EXCEPT WHERE OTHERWISE SHOWN.
- INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY INDICATED OTHERWISE OR WHERE LOCAL CODES OR REGULATIONS TAKE PRECEDENCE.
- PROVIDE MANUFACTURER'S RECOMMENDED SERVICE CLEARANCE AROUND ALL EQUIPMENT REQUIRING SAME.
- PROVIDE FOR SAFE CONDUCT OF THE WORK, CAREFUL REMOVAL AND DISPOSITION OF MATERIALS AND PROTECTION OF PROPERTY WHICH IS TO REMAIN UNDISTURBED.
- PROVIDE ACCESS DOORS FOR ALL EQUIPMENT, VALVES, CLEANOUTS, ACTUATORS AND CONTROLS WHICH REQUIRE ACCESS FOR ADJUSTMENT OR SERVICING AND WHICH ARE LOCATED IN OTHERWISE INACCESSIBLE LOCATIONS.
 - FOR EQUIPMENT LOCATED IN "ACCESSIBLE LOCATIONS" SUCH AS LAY-IN CEILINGS: LOCATE EQUIPMENT TO PROVIDE ADEQUATE SERVICE CLEARANCE FOR NORMAL MAINTENANCE WITHOUT REMOVING ARCHITECTURAL, ELECTRICAL OR STRUCTURAL ELEMENTS SUCH AS THE CEILING SUPPORT SYSTEM, ELECTRICAL FIXTURES, ETC. "NORMAL MAINTENANCE" INCLUDES, BUT IS NOT LIMITED TO: FILTER CHANGING, GREASING OF BEARINGS, USING PIT PORTS FOR PRESSURE OR TEMPERATURE MEASUREMENTS, SERVICING CONTROL VALVES AND SERVICING CONTROL PANELS.
- ISOLATE ALL PRESSURIZED PIPE (WATER, ETC.) AT EACH RISER, BRANCH, PIECE OF EQUIPMENT, AND AREA SERVED.
- NO DOMESTIC WATER, CHILLED WATER, OR HEATING WATER LINES SHALL BE LOCATED EXPOSED IN FINISHED SPACES OR BELOW THE BUILDING SLAB UNLESS SHOWN OTHERWISE ON THE DRAWINGS.
- NO GAS LINES SHALL BE LOCATED BELOW BUILDING SLAB.
- ALL CURBS, ROOF JACKS, ROOF THIMBLES, SANITARY VENTS, ROOF DRAINS, SHALL BE COMPATIBLE WITH ROOFING SYSTEM TO BE PROVIDED. REFERENCE ARCHITECTURAL DIVISION FOR REQUIRED FLASHING DETAILS.
- MECHANICAL CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL CONCRETE EQUIPMENT PAD DIMENSIONS, BASED ON THE FINAL EQUIPMENT SELECTION, TO THE STRUCTURAL AND GENERAL CONTRACTOR FOR INCLUSION IN THOSE CONTRACTOR'S WORK AS DESCRIBED BY THE GENERAL CONTRACTOR.
- WARRANTY: AT A MINIMUM, THE ENTIRE MECHANICAL SYSTEM SHALL BE WARRANTED AGAINST DEFECTS IN MATERIALS AND WORKMANSHIP FOR A PERIOD OF ONE (1) YEAR AFTER ACCEPTANCE OF THE SYSTEM BY THE OWNER. REFER TO INDIVIDUAL SPECIFICATION SECTIONS FOR SPECIFIC WARRANTY REQUIREMENTS.

DUCTWORK INSTALLATION:

- DUCTWORK IS TO BE SHEET STEEL: ASTM A653 / A653M w/G60 HOT-DIP GALVANIZED COATING, JOINT AND SEAM TAPE, AND SEALANT SHALL COMPLY WITH UL181A.
- SEAL ALL SEAMS (LONGITUDINAL AND TRANSVERSE) AIR TIGHT WITH SEALANT PER SPECIFICATIONS.
- DUCT DIMENSIONS ARE INSIDE CLEAR.
- DIFFUSER NECK SIZE IS SAME AS FLEXIBLE DUCT SIZE.
- UNLESS OTHERWISE NOTED, ALL CHANGES IN DIRECTION SHALL BE MADE WITH RADIUS ELBOWS WITH RADIUS TO CENTERLINE EQUAL TO 1.5 DUCT WIDTH.
- WHERE REQUIRED FOR SPACE CONSTRAINTS, PROVIDE MITERED ELBOWS WITH TURNING VANES AS FOLLOWS:
 - FOR DUCT WIDTHS OF 36" OR LESS, PROVIDE MANUFACTURED SINGLE WIDTH TURNING VANES, WITH NO TRAILING EDGES AND SPACING IN ACCORDANCE WITH SMACNA DUCT CONSTRUCTION STANDARDS FOR "STANDARD SPACING".
 - FOR DUCT WIDTHS GREATER THAN 36", USE DOUBLE THICKNESS (AIRFOIL) BLADES WITHOUT TRAILING EDGES.

- ALL FLEXIBLE DUCTS SHALL NOT BE LESS THAN 4", OR MORE THAN 10" IN LENGTH. INSTALL FLEXIBLE DUCTWORK SUCH THAT:
 - MINIMUM OVERALL LENGTH OF 3 X DIAMETER, STRAIGHT INTO NECK OF DIFFUSER.
 - MAXIMUM OF 135° OF TOTAL TURNING IN ENTIRE LENGTH OF FLEXIBLE DUCT.
 - MINIMUM TURNING RADIUS (MEASURED TO CENTERLINE OF DUCT) OF R = 1.5 X DIAMETER.
- RETURN AIR PLENUM: SEE GENERAL NOTES TO DETERMINE IF HVAC SYSTEM USES DUCTED OR PLENUM RETURN.
 - IF THE HVAC SYSTEM USES THE SPACE ABOVE THE CEILING AS A RETURN AIR PLENUM, CONTRACTOR SHALL CONFORM TO THE REQUIREMENTS OF NFPA AND LOCAL CODE REQUIREMENTS FOR ALL MATERIAL INSTALLED IN THE RETURN AIR PLENUM.
 - IN ADDITION, THE CONTRACTOR SHALL PROVIDE A COMPLETE RETURN AIR PATH BETWEEN ALL RETURN AIR DEVICES (GRILLES ETC.) AND THEIR RESPECTIVE HVAC UNIT. MAXIMUM VELOCITY OF RETURN AIR IN PLENUM HALL GENERALLY NOT EXCEED 250 FEET PER MINUTE, NOR EXCEED 750 FEET PER MINUTE AT ANY CROSS-SECTION OF THE RETURN AIR PATH.
- BRANCH LINES:
 - MAKE ALL TAPS TO ROUND DUCTWORK WITH CONICAL TEES.
 - MAKE ALL TAPS TO RECTANGLE DUCTWORK WITH 45° ENTRY OR CONICAL SPIN IN TO ROUND.
 - INCLUDE DAMPERS AT ALL BRANCH LINES.
- DUCT SIZES NOT CALLED OUT SHALL BE DETERMINED BASED ON 0.08" S.P. LOSS OR LESS PER 100 FT. OF LENGTH.
- ASSUME ROUND OR OVAL DUCTS IN EXPOSED AREAS.
- INCLUDE DAMPERS WHERE SHOWN ON THE DRAWINGS, AND WHERE OTHERWISE REQUIRED FOR BALANCING.
- INSULATION:
 - DUCT SIZES LISTED ON PLAN ARE FREE AREA SO ACTUAL SHEET METAL FABRICATION SIZES ON LINED DUCT SHALL BE SIZED UP IN EACH DIRECTION TO ACCOUNT FOR LINER.
 - EXTERIOR SUPPLY AND RETURN DUCTWORK SHALL BE WRAPPED WITH EXTERIOR RATED INSULATION, R-8.
 - LINE THE FIRST 10" OF INTERIOR SUPPLY AND RETURN DUCT FOR ACOUSTICAL ATTENUATION WITH CLOSED CELL ELASTOMERIC DUCT LINER. MINIMUM INSTALLED R VALUE OF R-6 (NOMINALLY 1.5" THICK).
 - AFTER INITIAL LINED SECTION, SHEET METAL SUPPLY AND RETURN DUCTS WHERE CONCEALED SHALL HAVE FLEXIBLE EXTERIOR WRAP INSULATION, FIBERGLASS WITH LAMINATED KRAFT PAPER AND ALUMINUM FOIL REINFORCED WITH FIBERGLASS (FSK) JACKET. MINIMUM INSTALLED R VALUE OF R-6 (NOMINALLY 2" THICK).
 - AFTER INITIAL LINED SECTION, SHEET METAL SUPPLY DUCT WHERE EXPOSED TO CONDITIONED SPACE SHALL BE LINED WITH CLOSED CELL FLEXIBLE ELASTOMERIC FOAM TO PREVENT CONDENSATION. DUCT LINER SHALL BE 0.5" THICK.
 - AFTER INITIAL LINED SECTION, SHEET METAL RETURN DUCT WHERE EXPOSED TO CONDITIONED SPACE SHALL BE UNINSULATED.
 - SHEET METAL EXHAUST DUCTWORK SHALL BE UNINSULATED.
 - FLEXIBLE DUCTS: FACTORY-FABRICATED, UNINSULATED, ROUND DUCT, WITH AN OUTER JACKET ENCLLOSING 1-1/2" THICK, GLASS-FIBER INSULATION AROUND A CONTINUOUS INNER LINER COMPLYING WITH UL 181, CLASS 1. INSTALL IN ACCORDANCE WITH AIR DIFFUSION COUNCIL, FLEXIBLE DUCT PERFORMANCE AND INSTALLATION STANDARDS. MINIMUM INSTALLED R VALUE OF R-6 (NOMINALLY 1.5" THICK).

CONDENSATE DRAINAGE:

- PROVIDE CONDENSATE DRAINAGE FOR ALL COOLING COILS AND OVERFLOW PANS.
- ROUTE CONDENSATE PIPING, FULL SIZE OF DRIP PAN CONNECTION, TO NEAREST CODE APPROVED RECEPTACLE. INSULATE WHERE LOCATED ABOVE FINISHED CEILING.
- GRAVITY DRAIN WHERE POSSIBLE, PROVIDE AND INSTALL CONDENSATE PUMPS WHERE NECESSARY. GRAVITY CONDENSATE DRAIN SHALL BE SIZED AS INDICATED ON DRAWINGS OR AS FOLLOWS, WHICHEVER IS LARGER:
 - 0-20 TONS: 3/4" - 21-40 TONS: 1" - 41-90 TONS: 1-1/4" - 91-125 TONS: 1-1/2" - 125-250 TONS: 2"

CUTTING, PATCHING AND DEMOLITION:

- KEEP DEMOLITION & CUTTING TO MINIMUM REQUIRED FOR PROPER EXECUTION OF WORK.
- BE RESPONSIBLE FOR ALL CUTTING AND PATCHING NECESSARY FOR THE COMPLETION OF THE WORK.
- NO CUTTING (NOT SHOWN ON THE CONTRACT DOCUMENTS) SHALL BE DONE WITHOUT THE APPROVAL OF THE ARCHITECT AS TO LOCATIONS, METHOD AND EXTENT OF THE CUTTING.
- REPAIR ALL ACCIDENTAL OR INTENTIONAL DAMAGE TO MATCH EXISTING CONSTRUCTION WITH NO NOTICEABLE DIFFERENCE IN CONTINUITY, APPEARANCE OR FUNCTION.
- ALL "CAPPED" SANITARY AND VENT LINES SHALL BE RECONNECTED OR RE-ROUTED AS NECESSARY TO PREVENT "DEAD-ENDS" IN THE PIPING. ALL PIPING SHALL DRAIN TO ACTIVE SANITARY WASTE LINES AND ALL BRANCHES WITH TRAPS SHALL BE ADEQUATELY VENTED.

STRUCTURE:

- DO NOT PENETRATE STRUCTURAL MEMBERS. ALL EQUIPMENT SUPPORTS SHALL BE ATTACHED TO THE LOAD BEARING MEMBERS OF STRUCTURAL ELEMENTS. DO NOT OVER-STRESS ANY STRUCTURAL MEMBERS. CONTACT STRUCTURAL ENGINEER FOR ALLOWABLE LOADS FOR SPECIFIC MEMBERS.
- DO NOT UTILIZE POWER DRIVEN ANCHORS FOR ANY LOCATIONS WHICH REQUIRE THE LOAD TO BE HELD IN TENSION. SEE STRUCTURAL DIVISION FOR ADDITIONAL RESTRICTIONS.
- SEE ALSO STRUCTURAL DIVISION FOR ACCEPTABLE ANCHORING AND SUPPORT MEANS, METHODS, AND LOCATIONS.
- PROVIDE FLEXIBLE CONNECTORS, EXPANSION LOOPS, EXPANSION JOINTS, ADDITIONAL FITTINGS OR EQUIVALENT TO ACCOMMODATE THE THERMAL EXPANSION OF THE BUILDING THROUGH STRUCTURAL EXPANSION JOINTS. PROVIDE SUCH FITTINGS AT EVERY PIPE, DUCT, CONDUIT, ETC. CROSSING OF A STRUCTURAL EXPANSION JOINT.

CONSTRUCTION VENTILATION:

- WHERE EXISTING OR NEW MECHANICAL SYSTEMS ARE USED FOR TEMPORARY VENTILATION OR CLIMATE CONTROL, MECHANICAL EQUIPMENT INSTALLER SHALL PROVIDE CONSTRUCTION FILTERS, MAINTAIN EQUIPMENT, AND CLEAN, ADJUST AND PUT IN NEW CONDITION BEFORE BUILDING OCCUPANCY. PARTS AND LABOR WARRANTY SHALL NOT BE CONSIDERED TO START UNTIL ACCEPTANCE OF SYSTEM BY OWNER.
- PROVIDE CONSTRUCTION FILTERS INSTALLED AT ALL AIR MOVING DEVICES THROUGHOUT THE CONSTRUCTION. REMOVE FILTERS ONLY FOR BALANCING AND FINAL TUNING. INSPECT ALL NON-CONSTRUCTION FILTERS AND REPLACE ALL THOSE DEEMED NECESSARY BY THE ENGINEER PRIOR TO ACCEPTANCE OF THE SYSTEM BY THE OWNER.

HVAC SEQUENCE

FURNACES:

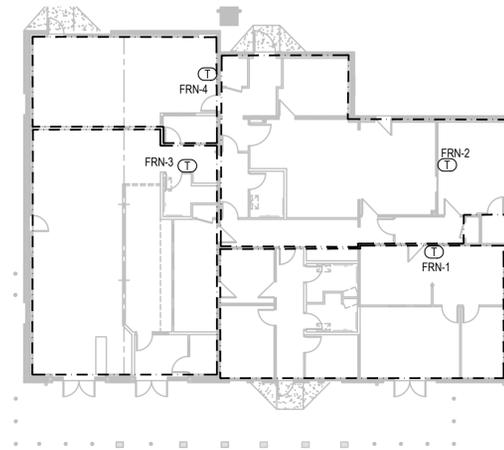
- OCCUPIED MODE: COORDINATE HOURS WITH TENANT
 - OUTSIDE AIR OPEN TO VENTILATION SETTING AND SUPPLY FAN ON (NOT AUTO).
 - STAGE ON COOLING TO MAINTAIN 75°F (ADJ.)
 - STAGE ON HEATING TO MAINTAIN 70°F (ADJ.)
- UNOCCUPIED MODE: COORDINATE HOURS WITH TENANT
 - OUTSIDE AIR CLOSED AND SUPPLY FAN AUTO.
 - STAGE ON COOLING TO MAINTAIN 80°F (ADJ.)
 - STAGE ON HEATING TO MAINTAIN 65°F (ADJ.)

EXHAUST FANS:

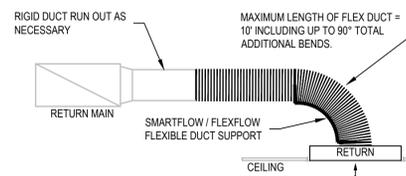
- PRIVATE RESTROOMS SHALL HAVE CEILING FAN TIED TO LIGHT SWITCH / OCCUPANCY SENSOR.

GENERAL NOTES

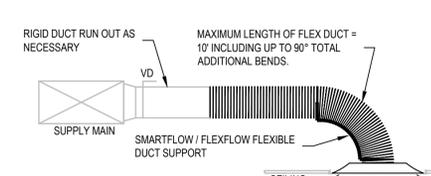
- ALL WORK SHALL BE IN ACCORDANCE WITH THE GEORGIA CONSTRUCTION CODE & ITS ADOPTED AMENDMENTS, INCLUDING BUT NOT LIMITED TO THE NATIONAL ELECTRIC CODE, INTERNATIONAL MECHANICAL CODE, INTERNATIONAL ENERGY CONSERVATION CODE, AND INTERNATIONAL PLUMBING CODE. SEE ARCHITECTURAL COVER SHEET FOR A SPECIAL LIST OF ADOPTED CODES.
- NOTE THAT THIS BUILDING USES A FULLY DUCTED RETURN WITHOUT A RETURN AIR PLENUM.
- UNLESS OTHERWISE NOTED, THE WORK DESCRIBED ON THE PLANS AND SPECIFICATIONS SHALL INCLUDE THE FURNISHING AND INSTALLATION OF ALL LABOR AND MATERIALS NECESSARY FOR COMPLETE AND OPERATIONAL HVAC, FIRE PROTECTION AND PLUMBING SYSTEMS. CONTRACTOR SHALL FURNISH THESE EVEN IF ITEMS REQUIRED TO ACHIEVE THIS (I.E. OFFSETS, ISOLATION AND BALANCING DEVICES, MAINTENANCE CLEARANCES, ETC.) ARE NOT SPECIFICALLY SHOWN.
- THE CONTRACTOR SHALL PROVIDE SUBMITTALS TO THE A/E TEAM ON ALL MAJOR EQUIPMENT, MATERIALS, & FIXTURES FOR REVIEW PRIOR TO PURCHASING. QUESTIONS REGARDING THESE DRAWINGS SHALL BE ADDRESSED TO THE A/E TEAM PRIOR TO THE AWARDED OF THE CONTRACT. OTHERWISE THE A/E TEAM'S INTERPRETATION OF THE MEANING AND INTENT OF THE DRAWINGS SHALL BE FINAL.
- DATA GIVEN ON THE DRAWINGS IS AS EXACT AS COULD BE SECURED. ABSOLUTE ACCURACY IS NOT GUARANTEED AND THE CONTRACTOR SHALL OBTAIN AND VERIFY EXACT LOCATIONS, MEASUREMENTS, LEVELS, SPACE REQUIREMENTS, POTENTIAL CONFLICTS WITH OTHER TRADES, ETC. AT THE SITE AND SHALL SATISFACTORILY ADAPT HIS WORK TO THE ACTUAL CONDITIONS OF THE JOB.
- THE DRAWINGS ARE DIAGRAMMATICAL IN NATURE AND SHALL NOT BE SCALED. THEY SHOW CERTAIN PHYSICAL RELATIONSHIPS WHICH MUST BE ESTABLISHED WITHIN THE VARIOUS DIVISIONS SCOPE OF WORK AND ITS INTERFACE WITH OTHER TRADES. IF CONFLICTS EXIST, PRIORITY OF LOCATION IN REFLECTED CEILING GRID SHALL BE AS FOLLOWS FROM HIGH TO LOW: LIGHTS, SPRINKLER, MECHANICAL, FIRE ALARM DEVICES.
- ESTABLISHING THIS RELATIONSHIP IN THE FIELD IS THE EXCLUSIVE RESPONSIBILITY OF THE CONTRACTOR. THIS DIVISION SHALL COORDINATE ITS WORK WITH ALL DIVISIONS OF THE WORK AND ADJUST ITS WORK AS REQUIRED BY THE ACTUAL CONDITIONS OF THE PROJECT.
 - THE CONTRACTOR SHALL VISIT THE SITE BEFORE SUBMITTING A BID TO BECOME THOROUGHLY FAMILIAR WITH THE ACTUAL CONDITIONS OF THE PROJECT. NO EXTRAS WILL BE ALLOWED DUE TO LACK OF KNOWLEDGE OF EXISTING CONDITIONS.
 - CERTAIN SYSTEMS REQUIRE ENGINEERING OF INSTALLATION DETAILS BY CONTRACTOR. UNLESS FULLY DETAILED IN THE CONTRACT DOCUMENTS, SUCH ENGINEERING IS THE EXCLUSIVE RESPONSIBILITY OF THE CONTRACTOR.
 - IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE WHERE CLEARANCES ARE LIMITED, AND WHERE INSTALLATION DRAWINGS OR SCHEMATICS, "CONSTRUCTION DRAWINGS", OR COORDINATION DRAWINGS MAY BE REQUIRED IN ACCORDANCE WITH, OR IN EXCESS OF, THOSE REQUIRED BY THE SPECIFICATIONS. THE CONTRACTOR SHALL PREPARE ALL SUCH COORDINATION DRAWINGS AS PART OF THE BASE CONTRACT. SUCH DRAWINGS MAY BE SUBMITTED TO THE ARCHITECT/ENGINEER FOR RECORD AND COMMENT. ANY WORK INSTALLED WITHOUT APPROVED COORDINATION DRAWINGS IS DONE AT THE CONTRACTOR'S RISK.
 - THESE NOTES ONLY SUPPLEMENT, AND DO NOT REPLACE, THE SPECIFICATIONS.
- DIVISIONS
 - 1: GENERAL, 21: FIRE SUPPRESSION, 22: PLUMBING, 23: HVAC, 25: AUTOMATION, 26: ELECTRICAL, 27: COMMUNICATIONS, 28: ELECTRONIC SAFETY AND SECURITY
- DEFINITIONS AND TERMINOLOGY
 - THE DEFINITIONS AND GENERAL CONDITIONS OF THIS SPECIFICATION ALSO APPLY TO MEP DIVISION CONTRACT DOCUMENTS.
 - CONTRACT DOCUMENTS CONSTITUTE THE DRAWINGS, SPECIFICATIONS, GENERAL CONDITIONS, PROJECT MANUALS, ETC. PREPARED BY ENGINEER (OR OTHER DESIGN PROFESSIONAL IN ASSOCIATION WITH ENGINEER) FOR CONTRACTOR'S BID OR CONTRACTOR'S NEGOTIATIONS WITH THE OWNER. THESE DRAWINGS AND SPECIFICATIONS PREPARED BY THE ENGINEER ARE NOT CONSTRUCTION DOCUMENTS.
 - CONSTRUCTION DOCUMENTS, CONSTRUCTION DRAWINGS, AND SIMILAR TERMS FOR THIS WORK REFER TO INSTALLATION DIAGRAMS, SHOP DRAWINGS AND COORDINATION DRAWINGS PREPARED BY THE CONTRACTOR USING THE DESIGN INTENT INDICATED ON THE ENGINEER'S CONTRACT DOCUMENTS. THESE SPECIFICATIONS DETAIL THE CONTRACTOR'S RESPONSIBILITY FOR "ENGINEERING BY CONTRACTOR" AND FOR PREPARATION OF CONSTRUCTION DOCUMENTS.
 - (N) INDICATES NEW EQUIPMENT TO BE PROVIDED UNDER THIS CONTRACT.
 - (E) INDICATES EXISTING EQUIPMENT ON SITE WHICH MAY OR MAY NOT NEED TO BE RELOCATED AS A PART OF THIS WORK.
 - (R) INDICATES EXISTING EQUIPMENT TO BE RELOCATED AS PART OF THIS WORK.
 - FURNISH MEANS TO SUPPLY AND USUALLY REFERS TO AN ITEM OF EQUIPMENT.
 - INSTALL MEANS TO SET IN PLACE, CONNECT AND PLACE IN FULL OPERATIONAL ORDER.
 - PROVIDE MEANS TO FURNISH AND INSTALL.
 - EQUIVALENT MEANS MEETS THE SPECIFICATIONS OF THE REFERENCE PRODUCT OR ITEM IN ALL SIGNIFICANT ASPECTS. SIGNIFICANT ASPECTS SHALL BE AS DETERMINED BY THE ARCHITECT/ENGINEER.
 - WORK BY OTHER(S) DIVISIONS, AND SIMILAR EXPRESSIONS MEANS WORK TO BE PERFORMED UNDER THE CONTRACT DOCUMENTS, BUT NOT NECESSARILY UNDER THE DIVISION OR SECTION OF THE WORK ON WHICH THE NOTE APPEARS. IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO COORDINATE THE WORK OF THE CONTRACT BETWEEN HISHER SUPPLIERS, SUBCONTRACTORS AND EMPLOYEES. IF CLARIFICATION IS REQUIRED, CONSULT ARCHITECT/ENGINEER BEFORE SUBMITTING BID.
 - BY INFERENCE, ANY REFERENCE TO A CONTRACTOR OR SUB-CONTRACTOR MEANS THE ENTITY WHICH HAS CONTRACTED WITH THE OWNER FOR THE WORK OF THE CONTRACT DOCUMENTS.
 - ENGINEER MEANS THE DESIGN PROFESSIONAL FIRM WHICH HAS PREPARED THESE CONTRACT DOCUMENTS. ALL QUESTIONS, SUBMITTALS, ETC. OF THIS DIVISION SHALL BE ROUTED THROUGH THE ARCHITECT TO THE ENGINEER (THROUGH PROPER CONTRACTUAL CHANNELS).



1 MECHANICAL ZONING AND THERMOSTAT PLAN
SCALE: 1/16"=1'-0"



3 DUCTED RETURN DETAIL
NOT TO SCALE



2 SUPPLY DIFFUSER DETAIL
NOT TO SCALE

PRINT RECORD

#	DESCRIPTION	DATE	REVISIONS
1	CODE COMMENTS	06/28/2021	

SPLIT SYSTEM SCHEDULE -GAS

SYSTEM	TAG	AREA SERVED	DX COOLING CAPACITY				HEATING			SUPPLY FAN			OUTSIDE AIR		ELECTRICAL				NOTES	BASIS OF DESIGN: CARRIER
			NOM. TONS	TOT. MBH	SENS. MBH	SEER	MBH IN	MBH OUT	AFUE	CFM	ESP.	HP	CFM	%SA	UNIT	VOLTS-PH	MCA	MOCP		
1	[FRN-1]	LOBBY, OFFICES, EMS ROOM	3	-	-	-	-	-	-	-	1200	-	-	240	20	INDOOR				EXISTING TO REMAIN
	OUTDOOR																		EXISTING TO REMAIN	
2	[FRN-2]	DIRECTORS OFFICE, STAGING ROOM CORRIDORS	3	-	-	-	-	-	-	-	1200	-	-	240	20	INDOOR				EXISTING TO REMAIN
	OUTDOOR																		EXISTING TO REMAIN	
3	[FRN-3]	VOTING AREA	4	45.6	35.9	14.0	80	75	92%	1600	0.5	-	320	20	INDOOR	115-1	9.5	15.0	1,2,3,4,5,6,8	59SP2A/CNPH
	OUTDOOR														208-3	18.3	30.0	7	24HA	
4	[FRN-4]	ABSENTEE ROOM	2	22.9	18.2	14.5	40	37	92%	800	0.5	-	160	20	INDOOR	115-1	7.0	15.0	1,2,3,4,5,6,8	59SP2A/CNPH
	OUTDOOR														208-1	14.1	20.0	7	24ACC	

- NOTES & ACCESSORIES
- 1) COOLING RATING IS BASED ON ENTERING AIR: 80°F DB/67°F WB, AMBIENT AIR: 95°F UNLESS OTHERWISE NOTED.
 - 2) AHRI MATCHED COIL WITH TXV (FACTORY OR FIELD INSTALLED).
 - 3) SENSORS AND LOW VOLTAGE CONTROL WIRE SHALL BE INSTALLED BY MECHANICAL CONTRACTOR.
 - 4) COMMERCIAL PROGRAMMABLE THERMOSTAT, VISIONPRO 8000 OR EQUIVALENT.
 - 5) PROVIDE AND INSTALL: 1" MERV 8 PLEATED FILTERS, OVERFLOW PAN WITH FLOAT SWITCH.
 - 6) PIPE PRIMARY COIL CONDENSATE AND OVERFLOW PAN OUT TO GRADE. PIPE SECONDARY COIL CONDENSATE TO OVERFLOW PAN.
 - 7) UNIT MOUNTED ON PAD ON GROUND NEXT TO EXISTING UNIT
 - 8) CLOSED COMBUSTION DIRECT VENT 92-PIPED PVC FLUE THROUGH ROOF PER MANUFACTURER DETAIL.

EXHAUST FAN SCHEDULE

TAG	AREA SERVED	FAN / MOTOR				ELECTRICAL			NOTES & ACCESSORIES	BASIS OF DESIGN: GREENHECK
		CFM	ESP.	DRIVE	SONES	VOLTS-PH	MCA	MOCP		
[EF-1]	RESTROOM	70	0.3	DIR.	3.2	120-1	1	15	1,2	GC-144

NOTES:
 1) SEE MECHANICAL DRAWINGS FOR SEQUENCE
 2) GRAVITY BACKDRAFT DAMPER

GRILLE, REGISTER, DIFFUSER SCHEDULE

TYPE	MAKE	MODEL	USE	STYLE	MATERIAL	NIC	NOTES
[S-1]	TITUS	TMS	SUPPLY	SQ. CONE	ALUMINUM	<30	1,2,4
[R-1]	TITUS	50F	RETURN	EGGGRATE	ALUMINUM	<30	1,2,3,4

1. WHITE POWDER COAT (VERIFY WITH ARCHITECT)
 2. 24X24 MODULE FOR ALL DEVICES IN LAY-IN-CEILING
 3. WHEN SHOWN DUCTED ON PLANS PROVIDE SQUARE TO ROUND ADAPTER FOR FLEX DUCT CONNECTIONS
 4. PROVIDE TRM FRAME FOR ALL DIFFUSERS AND GRILLES LOCATED IN GYPBOARD CEILINGS 12x12 OR 24x24
 CONTRACTOR SHALL PROVIDE SUBMITTAL INFORMATION TO ENGINEER FOR ANY DESIRED ALT. OR SUBSTITUTIONS.

GRAVITY HOOD

TAG	DESCRIPTION	AREA SERVED	AIRFLOW		ELECTRICAL			NOTES & ACCESSORIES	BASIS OF DESIGN: GREENHECK
			CFM	ESP.	VOLTS-PH	MCA	MOCP		
[GO-1]	GRAVITY OUTLET ROOF	BATHROOM EXHAUST	280	0.2	-	-	-	-	GRSO-8
[GI-1]	GRAVITY INLET ROOF	OUTSIDE AIR TO HVAC	1325	0.2	-	-	-	-	GRSI-12

NOTES:

COMcheck Software Version 4.1.5.1
Mechanical Compliance Certificate

Project Information
 Energy Code: 90.1 (2013) Standard
 Project Title: Election Office
 Location: Fayetteville, Georgia
 Climate Zone: 3a
 Project Type: Alteration

Construction Site: _____ Owner/Agent: _____ Designer/Contractor: _____

Mechanical Systems List
Quantity System Type & Description

1 HVAC System 2
 Heating: 1 each - Central Furnace, Gas, Capacity = 80 kBtu/h
 Cooling: 1 each - Split System, Capacity = 36 kBtu/h, Air-Cooled Condenser
 Fan System: Unspecified

SYSTEM COMPLIANCE EXEMPTION APPLIES
 Exemption: Relocation of existing equipment.

1 HVAC System 3
 Heating: 1 each - Central Furnace, Gas, Capacity = 80 kBtu/h
 Proposed Efficiency = 92.00% Ef, Required Efficiency: 80.00 % Ef (or 78% AFUE)
 Cooling: 1 each - Split System, Capacity = 48 kBtu/h, Air-Cooled Condenser
 Proposed Efficiency = 14.00 SEER, Required Efficiency: 13.00 SEER
 Fan System: None

SYSTEM VERIFICATION REQUIRED.

1 HVAC System 4
 Heating: 1 each - Central Furnace, Gas, Capacity = 40 kBtu/h
 Proposed Efficiency = 92.00% Ef, Required Efficiency: 80.00 % Ef (or 78% AFUE)
 Cooling: 1 each - Split System, Capacity = 24 kBtu/h, Air-Cooled Condenser
 Proposed Efficiency = 14.50 SEER, Required Efficiency: 13.00 SEER
 Fan System: None

SYSTEM VERIFICATION REQUIRED.

Mechanical Compliance Statement
 Compliance Statement: The proposed mechanical alteration project represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed mechanical systems have been designed to meet the 90.1 (2013) Standard requirements in COMcheck Version 4.1.5.1 and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Brian Fagan - P.E. *Brian Fagan* 05/07/2021
 Name - Title Signature Date

Project Title: Election Office Report date: 05/07/21
 Data filename: C:\Users\Fagan Engineering\Fagan Engineering Services, LLC\Jefferson Browne Gresham - Documents\21009 Election Office Fayetteville\Docs + Calcs\Reports\21009 COMCHECK.cck Page 2 of 11

JEFFERSON BROWNE GRESHAM ARCHITECTS, INC.
 150 HULLSTON ROAD, SUITE 1000
 PEACHTREE CITY, GEORGIA 30069
 770-432-9545
 JEFFERSONBROWNEARCHITECTS.COM

PRINT RECORD

#	DESCRIPTION	DATE	NOTES
1	CODE COMMENTS	06/28/2021	

FAYETTE COUNTY ELECTIONS OFFICE
 REMODEL
 175 JOHNSON AVENUE
 FAYETTEVILLE, 30214 GEORGIA
 PROJECT #3142

BRIAN J. FAGAN - PROFESSIONAL ENGINEER
 GA LICENSE NUM: 32560 - EXP: 12/31/2022

FINAL DRAWING
 FOR REVIEW PURPOSES ONLY
 Release Date: May 25, 2021
 SEAL

Mechanical Schedules

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Drawn By: JG OH
 Checked By: BF
 PROJECT # M002
 90-3142

#	DESCRIPTION	DATE
1	CODE COMMENTS	06/28/2021

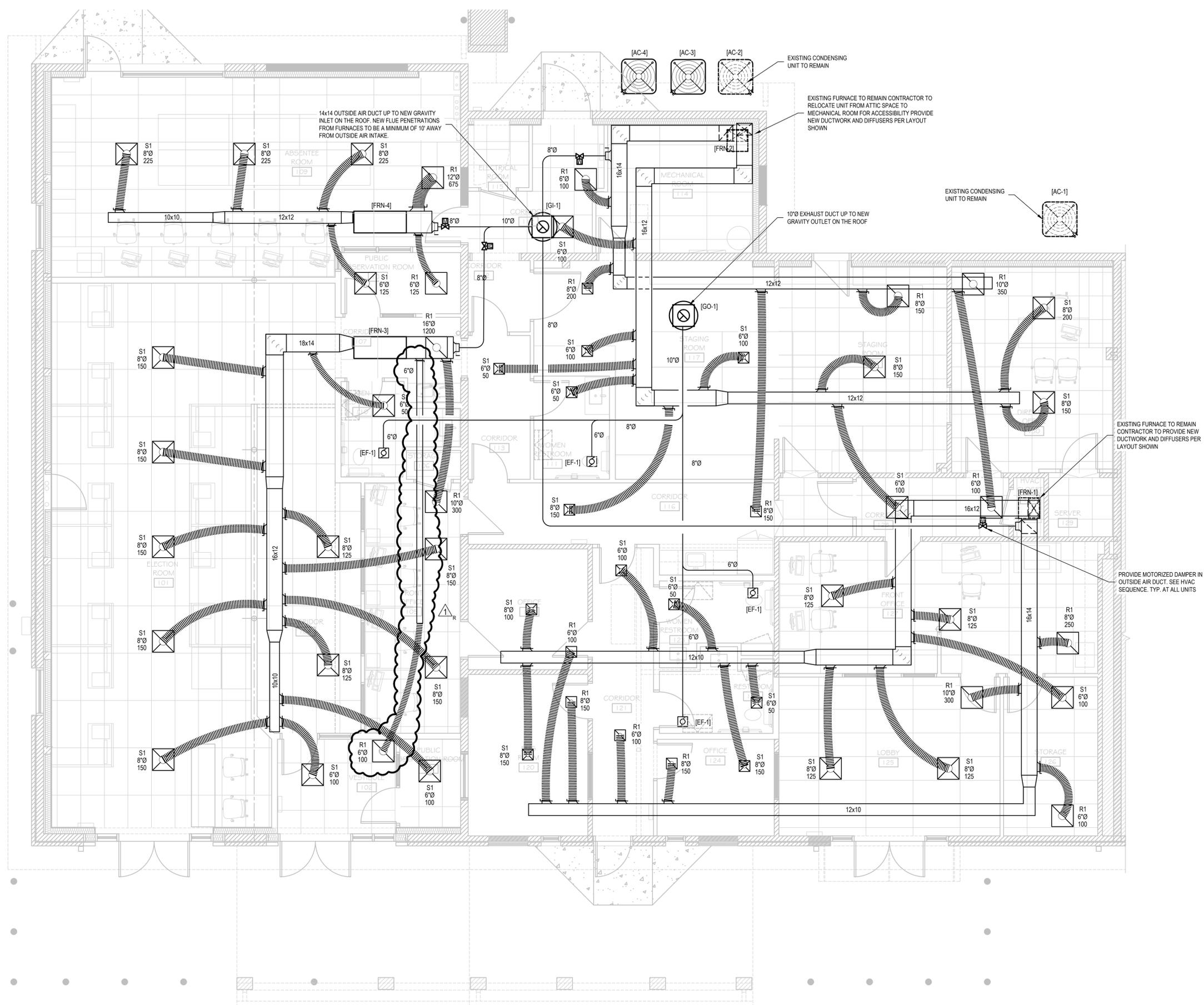
FAYETTE COUNTY ELECTIONS OFFICE
 REMODEL
 175 JOHNSON AVENUE
 FAYETTEVILLE, 30214 GEORGIA
 PROJECT #3142

PROFESSIONAL ENGINEER
 B. J. FAGAN
 BRIAN J. FAGAN - PROFESSIONAL ENGINEER
 GA LICENSE NUM: 32550 - EXP: 12/31/2022

FINAL DRAWING
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Mechanical Plan

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 Drawn By: JG OH
 Checked By: BF
 PROJECT # M100
 90-3142



1 MECHANICAL PLAN
 SCALE: 1/4"=1'-0"

PLUMBING FIXTURE SCHEDULE

TAG	FIXTURE	DESCRIPTION	OPERATION	ELECTRIC	TRAP/ DRAIN	VENT	CONNECTION		MAX CONSUMP.	FAUCETS, VALVES, & ACCESSORIES	BASIS OF DESIGN
							HOT	COLD			
[WC1]	FLOOR MOUNTED WATER CLOSET, PRESSURE ASSISTED TANK TYPE	ELONGATED BOWL, 12" ROUGH ADA HEIGHT, LEFT FLUSH	MANUAL	N/A	3"	2"	-	1/2"	1.1 GPF	SEAT: AMERICAN STANDARD 5901.100T	AMERICAN STANDARD CADET FLOWISE: 2467.100 PACKAGE
[WC2]	FLOOR MOUNTED WATER CLOSET, PRESSURE ASSISTED TANK TYPE	ELONGATED BOWL, 12" ROUGH ADA HEIGHT, RIGHT FLUSH	MANUAL	N/A	3"	2"	-	1/2"	1.1 GPF	SEAT: AMERICAN STANDARD 5901.100T	AMERICAN STANDARD CADET FLOWISE: 3483.001 BOWL, 4142.801 TANK (RIGHT HAND)
[LAV1]	LAVATORY - ADA SELF RIMMING COUNTER UNDERMOUNT	VITREOUS CHINA W/ OVERFLOW DRAIN	AUTO	BATTERY	1-1/2"	1-1/2"	3/8"	3/8"	0.5 GPM	FAUCET: KOHLER SCULPTED K-13460	KOHLER CAXTON RECTANGLE K-20000
[EWC1]	ELECTRIC WATER COOLER	BI-LEVEL, WALL HUNG, ADA COMPLIANT ELECTRIC WATER COOLER	AUTO	PLUG-IN	1-1/4"	1"	-	3/8"	8.0 GPH	WATER FILTER	ELKAY EZSTL8WSLK WITH EZH2O BOTTLE FILLING
[KS1]	KITCHEN SINK	SINGLE BOWL STAINLESS STEEL SINK	MANUAL	N/A	2"	1-1/2"	1/2"	1/2"	2.0 GPM	ZURN Z812C4-XL-FC FAUCET 8" SWING GOOSENECK 4" WRIST BLADES	DAYTON D12521
[FD1]	ECONOMY FLOOR DRAIN LIGHT DUTY	PVC BODY SOLVENT WELD, FINISHED AREA, ADJUSTABLE NICKEL BRONZE GRATE			3"	2"	-	-	-	SURE SEAL SS3009V TRAP SEALER	ZURN LIGHT COMMERCIAL FD2210-PV3-NT
[ICE]	ICE MAKER OUTLET BOX	1/4 TURN, HAMMER ARRESTOR, COPPER, ICE MAKER OUTLET BOX	MANUAL	N/A	-	-	-	1/2"	-	-	OATEY I2K 39125

NOTES:

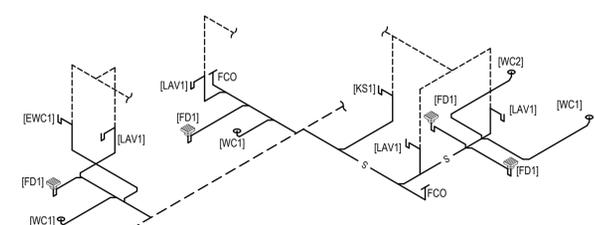
SYMBOL LEGEND

	PUMP
	FLOOR DRAIN
	FLOOR SINK
	HUB DRAIN
	VENT THROUGH ROOF
	WATER METER
	WATER HEATER
	DOMESTIC COLD WATER
	DOMESTIC HOT WATER
	140°F DOMESTIC HOT WATER
	DOMESTIC RECIRCULATION
	SANITARY
	VENT
	STORM DRAIN
	NATURAL GAS
	PROPANE (LP) GAS
	GREASE DRAIN
	INDIRECT WASTE

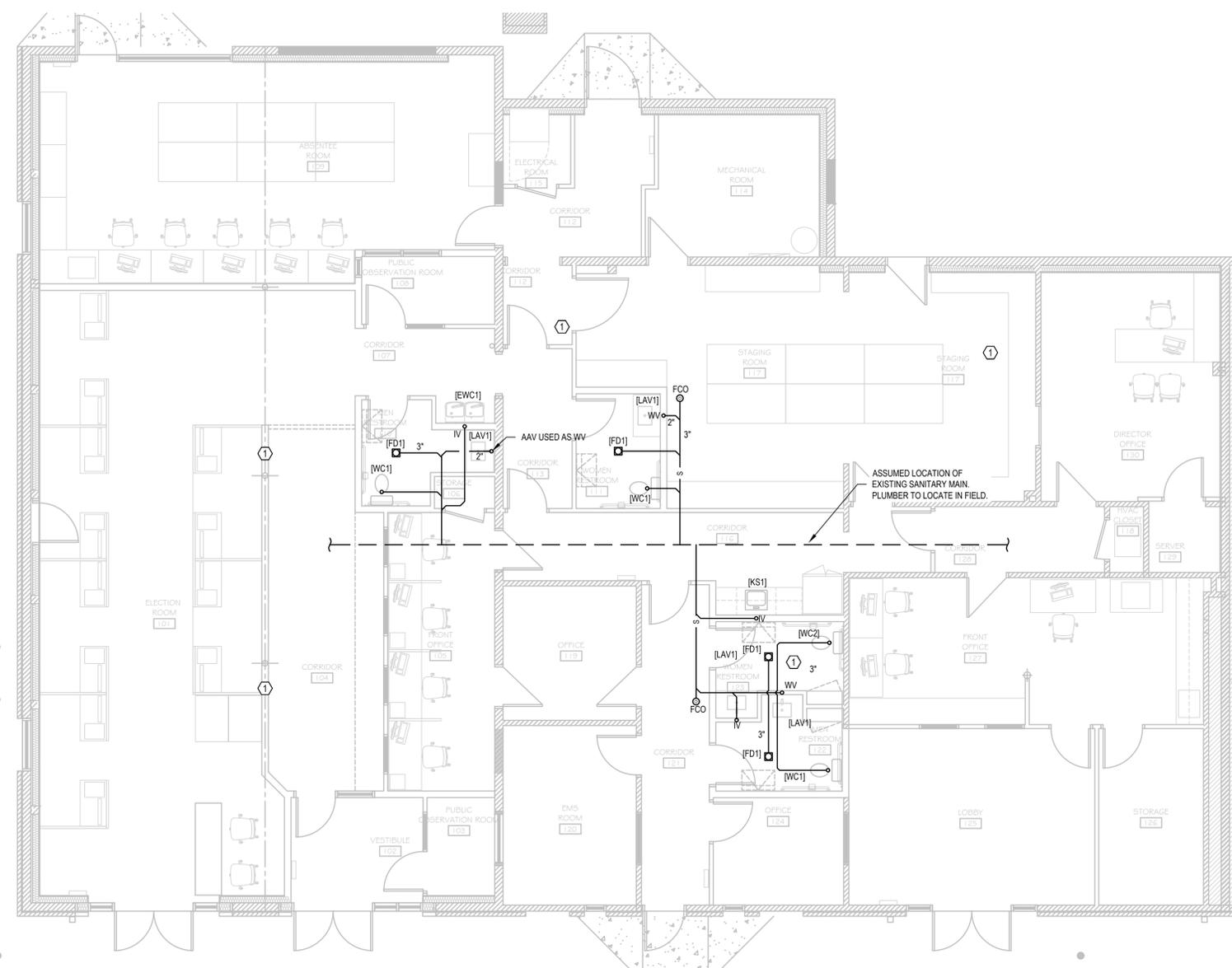
KEY NOTES

- COORDINATE WITH GC TO INFILL EXISTING PLUMBING WITH CONCRETE. PLUMBING TO BE ABANDONED IN PLACE, BUT MAKE SURE THAT REMAINDER OF SYSTEM IS OPERATIONAL.

IMPORTANT NOTE
 CONTRACTOR SHALL LOCATE SEWER LATERAL TO EXISTING STRUCTURE AND INSTALL A GRADE CLEANOUT WITHIN 5'-0" OF THE OUTSIDE WALL OF THE BUILDING.



2 PLUMBING SANITARY ISOMETRIC
 NOT TO SCALE



1 PLUMBING SANITARY WASTE PLAN
 SCALE: 3/16"=1'-0"

PRINT RECORD

#	DESCRIPTION	DATE	BY
1	CODE COMMENTS	06/28/2021	

FAYETTE COUNTY ELECTIONS OFFICE REMODEL
 175 JOHNSON AVENUE
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BRIAN J. FAGAN - PROFESSIONAL ENGINEER
 GA LICENSE NUM: 32550 - EXP: 12/31/2022

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Plumbing Sanitary Waste Plans

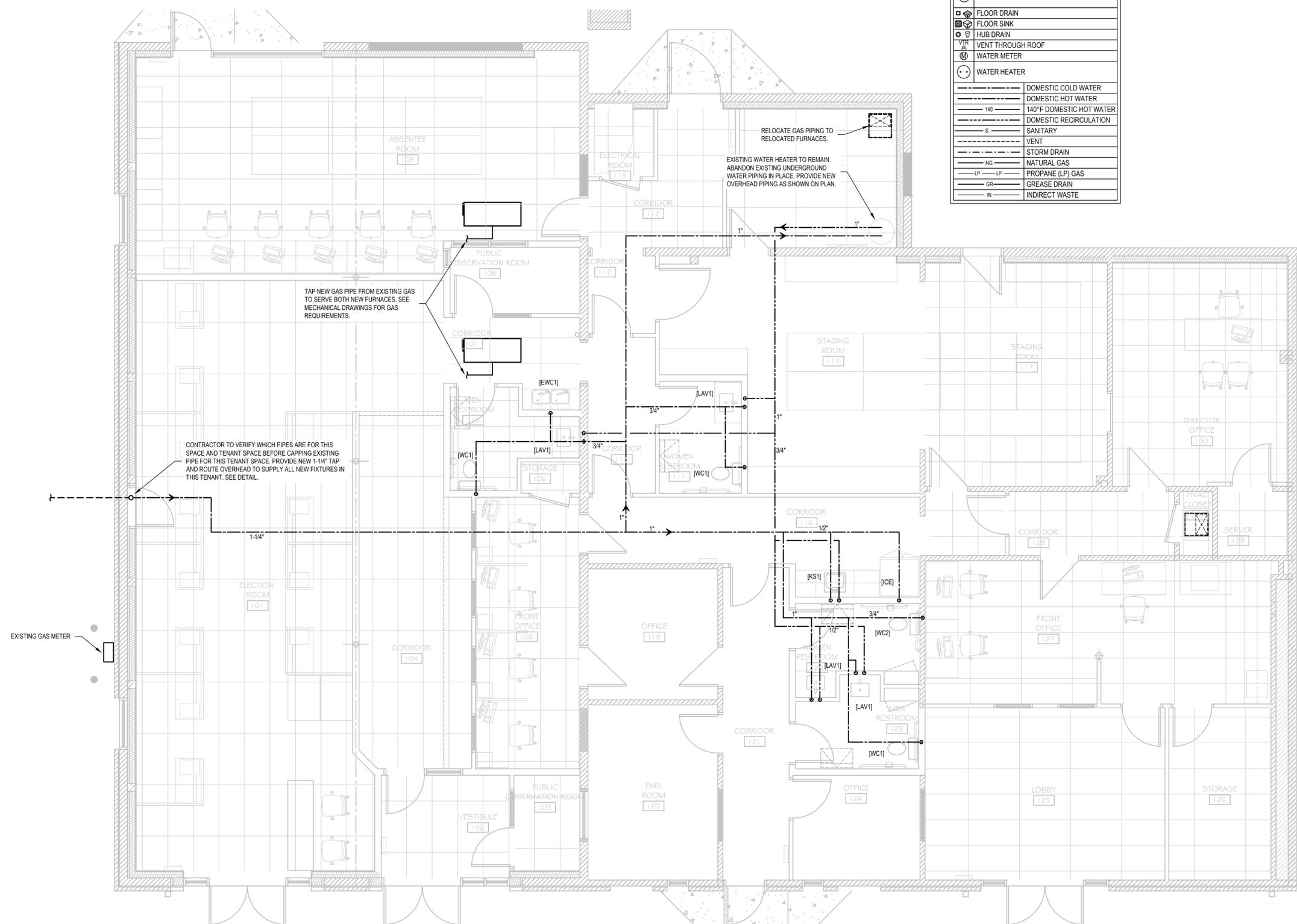
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 Checked By: BF
 PROJECT # P100
 90-3142

PRINT RECORD

#	DESCRIPTION	DATE INDICATES SHEET WAS REVISION
1	CODE COMMENTS	06/28/2021

SYMBOL LEGEND

	PUMP
	FLOOR DRAIN
	FLOOR SINK
	HUB DRAIN
	VENT THROUGH ROOF
	WATER METER
	WATER HEATER
	DOMESTIC COLD WATER
	DOMESTIC HOT WATER
	140°F DOMESTIC HOT WATER
	DOMESTIC RECIRCULATION
	SANITARY
	VENT
	STORM DRAIN
	NATURAL GAS
	PROPANE (LP) GAS
	GREASE DRAIN
	INDIRECT WASTE



FAYETTE COUNTY ELECTIONS OFFICE
 REMODEL
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 PROJECT #3142



BRIAN J. FAGAN - PROFESSIONAL ENGINEER
 GA LICENSE NUM: 22550 - EXP: 12/31/2022

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Plumbing
 Domestic Water
 Plan

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1 PLUMBING DOMESTIC WATER PLAN
 SCALE: 1/4"=1'-0"

Drawn By: JG, CH
 Checked By: BF
 PROJECT # 90-3142

P101

#	DESCRIPTION	SHEET NO.	REVISED
1	CODE COMMENTS	06/28/2021	

FAYETTE COUNTY ELECTIONS OFFICE
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 FAYETTEVILLE, 30214 GEORGIA
 PROJECT #3142

PROJECT 06/28/2021



BRIAN J. FAGAN - PROFESSIONAL ENGINEER
 GA LICENSE NUM: 29550 - EXP: 12/31/2022

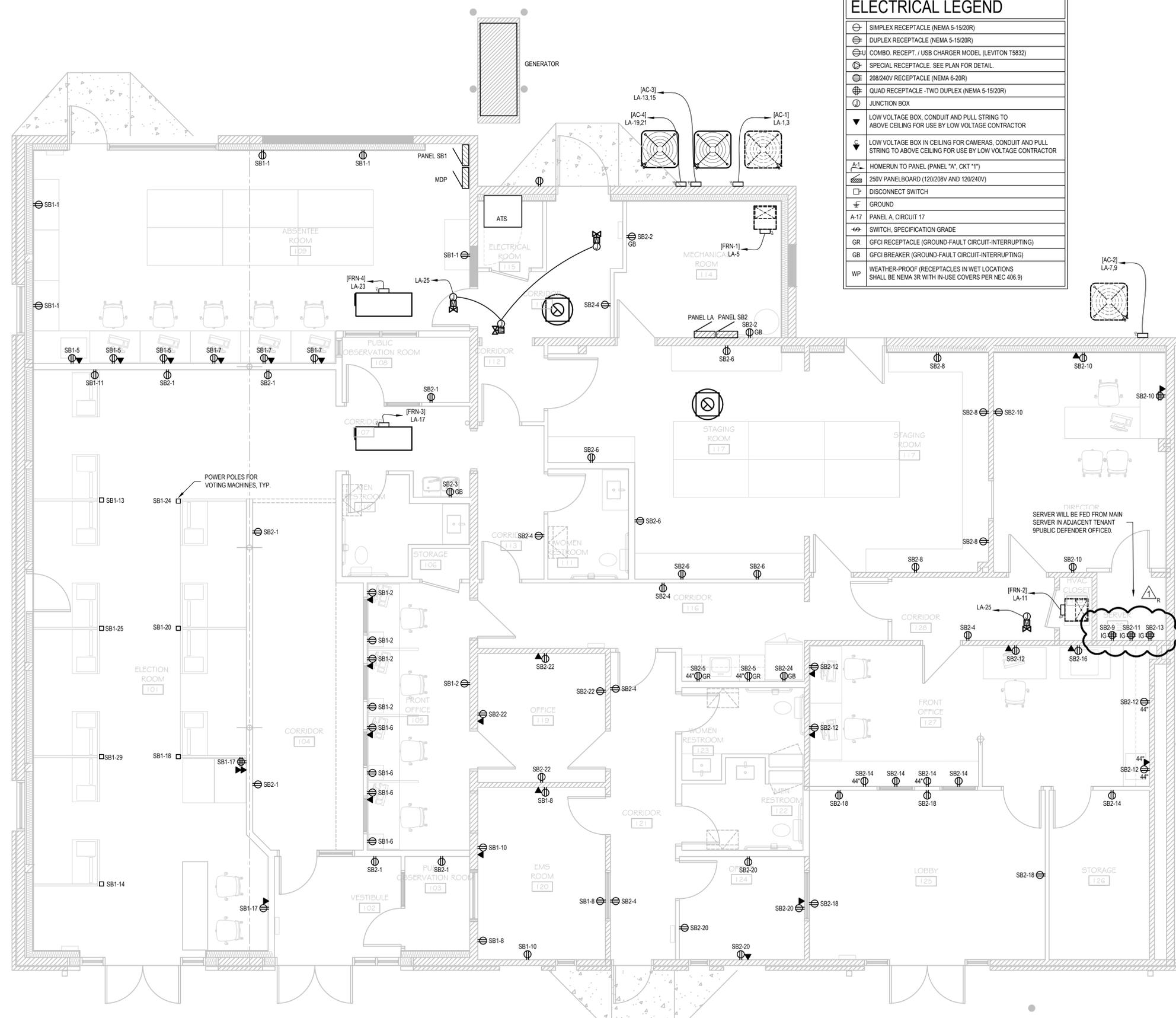
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Electrical Power Plan

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 Checked By: BF
 PROJECT # 90-3142

ELECTRICAL LEGEND

⊕	SIMPLEX RECEPTACLE (NEMA 5-15/20R)
⊕	DUPLEX RECEPTACLE (NEMA 5-15/20R)
⊕	COMBO. RECEPT. / USB CHARGER MODEL (LEVITON T5832)
⊕	SPECIAL RECEPTACLE. SEE PLAN FOR DETAIL.
⊕	208/240V RECEPTACLE (NEMA 6-20R)
⊕	QUAD RECEPTACLE - TWO DUPLEX (NEMA 5-15/20R)
⊕	JUNCTION BOX
▼	LOW VOLTAGE BOX, CONDUIT AND PULL STRING TO ABOVE CEILING FOR USE BY LOW VOLTAGE CONTRACTOR
▼	LOW VOLTAGE BOX IN CEILING FOR CAMERAS, CONDUIT AND PULL STRING TO ABOVE CEILING FOR USE BY LOW VOLTAGE CONTRACTOR
A-1	HOMERUN TO PANEL (PANEL "A", CKT "1")
▨	250V PANELBOARD (120/208V AND 120/240V)
⊕	DISCONNECT SWITCH
⊕	GROUND
A-17	PANEL A, CIRCUIT 17
⊕	SWITCH, SPECIFICATION GRADE
GR	GFCI RECEPTACLE (GROUND-FAULT CIRCUIT-INTERRUPTING)
GB	GFCI BREAKER (GROUND-FAULT CIRCUIT-INTERRUPTING)
WP	WEATHER-PROOF (RECEPTACLES IN WET LOCATIONS SHALL BE NEMA 3R WITH IN-USE COVERS PER NEC 406.9)

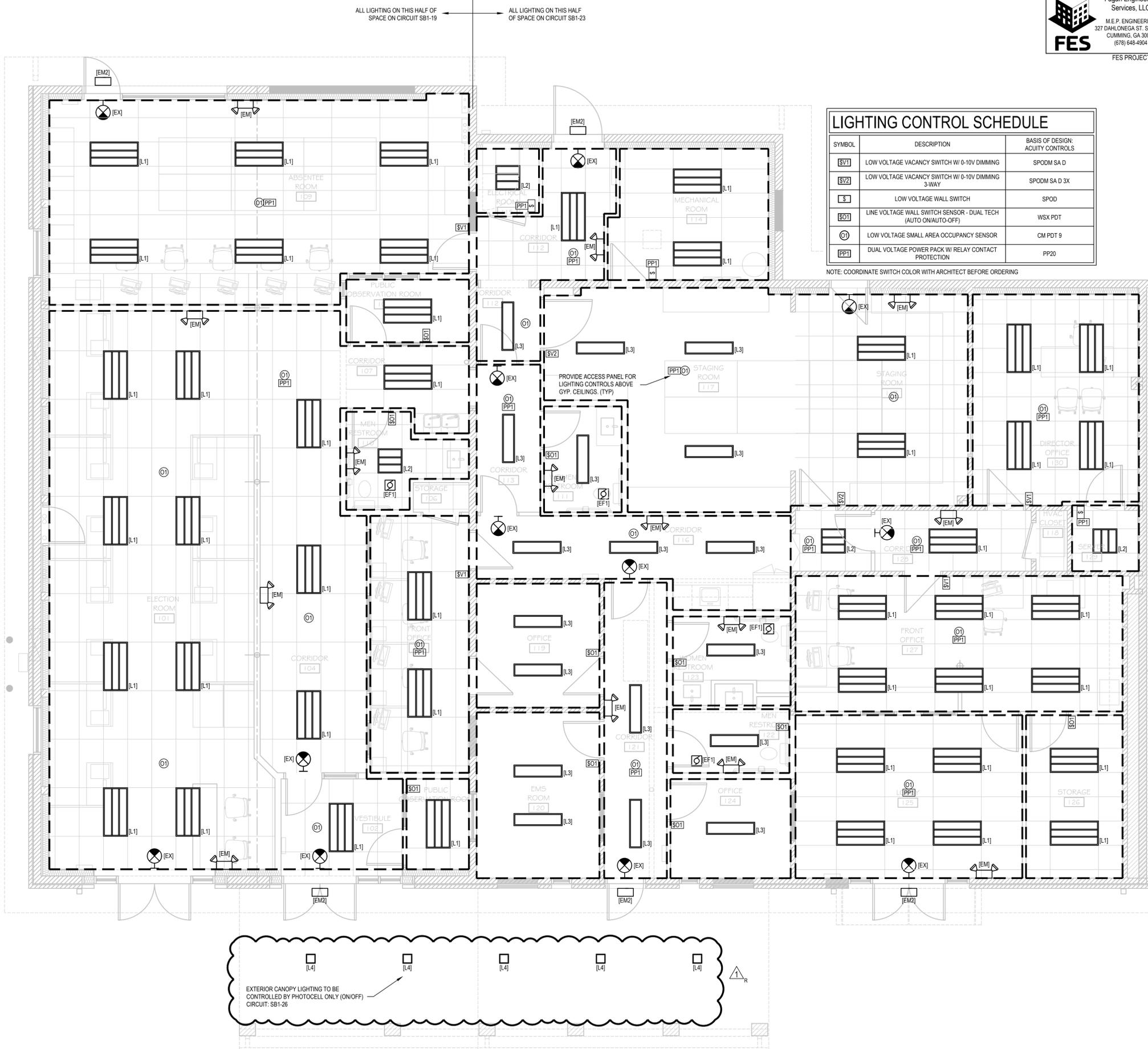


1 ELECTRICAL POWER PLAN
 SCALE: 1/4"=1'-0"

PRINT RECORD		
#	DESCRIPTION	DATE
1	CODE COMMENTS	06/28/2021

LIGHTING CONTROL SCHEDULE		
SYMBOL	DESCRIPTION	BASIS OF DESIGN: ACUITY CONTROLS
SV1	LOW VOLTAGE VACANCY SWITCH W/ 0-10V DIMMING	SP0DM SA D
SV2	LOW VOLTAGE VACANCY SWITCH W/ 0-10V DIMMING 3-WAY	SP0DM SA D 3X
S	LOW VOLTAGE WALL SWITCH	SP0D
S01	LINE VOLTAGE WALL SWITCH SENSOR - DUAL TECH (AUTO ON/AUTO-OFF)	WSX PDT
OS	LOW VOLTAGE SMALL AREA OCCUPANCY SENSOR	CM PDT 9
PP1	DUAL VOLTAGE POWER PACK W/ RELAY CONTACT PROTECTION	PP20

NOTE: COORDINATE SWITCH COLOR WITH ARCHITECT BEFORE ORDERING



FAYETTE COUNTY ELECTIONS OFFICE
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 PROJECT #3142



BRIAN J. FAGAN - PROFESSIONAL ENGINEER
 GA LICENSE NUM: 29560 - EXP: 12/31/2022

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Electrical Lighting Plan

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 Checked By: BF
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1 ELECTRICAL LIGHTING PLAN
 SCALE: 1/4"=1'-0"