

ELECTRICAL COORDINATION

- ## GENERAL INSTALLATION

- ## DUCTWORK INSTALLATION

1. 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.
2. SEAL ALL SEAMS (LONGITUDINAL AND TRANSVERSE) AIR TIGHT WITH SEALANT PER SPECIFICATIONS.
3. DUCT DIMENSIONS ARE INSIDE CLEAR.
4. DIFFUSER NECK SIZE IS SAME AS FLEXIBLE DUCT SIZE.
5. UNLESS OTHERWISE NOTED, ALL CHANGES IN DIRECTION SHALL BE MADE WITH RADIUS ELBOWS WITH RADIUS TO CENTERLINE WITH 1.5 DUCT WIDTH.
6. WHERE REQUIRED FOR SPACE CONSTRAINTS, PROVIDE MITERED ELBOWS WITH TURNING VANES AS FOLLOWS:
 - 6.1. FOR DUCT WIDTHS OF 36" OR LESS, PROVIDE MANUFACTURED SINGLE WIDTH WITH TURNING VANES, WITH NO TRAILING EDGES AND SPACING TO MAINTAIN CLEARANCE WITH SURROUNDING STRUCTURE.
 - 6.2. FOR DUCT WIDTHS GREATER THAN 36", USE DOUBLE THICKNESS (ARFOLD) BLADES WITHOUT TRAILING EDGES.

- ### CONDENSATE DRAINAGE

1. PROVIDE CONDENSATE DRAINAGE FOR ALL COOLING COILS AND OVERFLOW PANS.
2. ROUTE CONDENSATE PIPING, FULL SIZE OF DRIP PAN CONNECTION, TO NEAREST CODE APPROVED RECEPTACLE. INSULATE WHERE LOCATED ABOVE FINISHED CEILINGS.
3. 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:
 - 3.1. 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

1. KEEP DEMOLITION & CUTTING TO MINIMUM REQUIRED FOR PROPER EXECUTION OF WORK.
2. BE RESPONSIBLE FOR ALL CUTTING AND PATCHING NECESSARY FOR THE COMPLETION OF THE WORK.
3. 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.
4. REPAIR ALL ACCIDENTAL OR INTENTIONAL DAMAGE TO MATCH EXISTING CONSTRUCTION WITH NO NOTICEABLE DIFFERENCE IN CONTINUITY, APPEARANCE OR FUNCTION.
5. 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

1. 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.
2. DO NOT UTILIZE POWER DRIVEN ANCHORS FOR ANY LOCATIONS WHICH REQUIRE THE LOAD TO BE HELD IN TENSION. SEE STRUCTURAL DIVISION FOR ADDITIONAL RESTRICTIONS.
3. SEE ALSO STRUCTURAL DIVISION FOR ACCEPTABLE ANCHORING AND SUPPORT MEANS, METHODS, AND LOCATIONS.
4. 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 FITTING AT EVERY PIPE, DUCT, CONDUIT ETC. CROSSING OF A STRUCTURAL EXPANSION JOINT.

CONSTRUCTION VENTILATION

1. 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.
2. PROVIDE CONSTRUCTION FILTERS INSTALLED AT ALL AIR MOVING DEVICES THROUGHOUT THE CONSTRUCTION. REMOVE FILTERS ONLY FOR BALANCING AND FINAL TURNOVER. INSPECT ALL NON-CONSTRUCTION FILTERS AND REPLACE ALL THOSE DEEMED NECESSARY BY THE ENGINEER PRIOR TO ACCEPTANCE OF THE SYSTEM BY THE OWNER.

1. 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 SPECIFIC LIST OF ALL BUILDING CODES.
2. NOTE THAT ALL BUILDING CODES A FULLY DUCTED RETURN WITHOUT A RETURN AIR PLENUM.
3. 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.
4. THE CONTRACTOR SHALL PROVIDE SUBMITTALS TO THE A/E TEAM ON ALL MAJOR EQUIPMENT, MATERIALS, & FIXTURES PRIOR TO PURCHASE. ANY QUESTIONS REGARDING THESE DRAWINGS SHALL BE ADDRESSED TO THE A/E TEAM PRIOR TO THE AWARDING OF THE CONTRACT. OTHERWISE THE A/E TEAM'S INTERPRETATION OF THE MEANING AND INTENT OF THE DRAWINGS SHALL BE FINAL.
5. 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.
6. THE DIMENSIONS AND SPACING OF ALL TRADES SHALL NOT BE SCALED. THEY SHOW CERTAIN PHYSICAL RELATIONSHIPS WHICH MUST BE ESTABLISHED WITHIN THE VARIOUS DIVISIONS SCOPES 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.
7. 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.
- 7.1. 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.
- 7.2. 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.
- 7.3. 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, THE REQUIREMENTS OF 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.
- 7.4. THESE NOTES ONLY SUPPLEMENT, AND DO NOT REPLACE, THE SPECIFICATIONS.
8. DIVISIONS
 1. GENERAL; 21. FIRE SUPPRESSION; 22. PLUMBING; 23. HVAC; 25. AUTOMATION; 26. ELECTRICAL; 27. COMMUNICATIONS; 28. SECURITY ELECTRONIC SAFETY AND SECURITY
9. DEFINITIONS AND TERMINOLOGY
 1. THE DEFINITIONS AND GENERAL CONDITIONS OF THIS SPECIFICATION ALSO APPLY TO MEP DIVISION CONTRACT DOCUMENTS.
 2. CONTRACT DOCUMENTS CONSTITUTE THE DRAWINGS, SPECIFICATIONS, GENERAL CONDITIONS, PROJECT MANUALS, ETC., PREPARED BY ENGINEER (OR OTHER DESIGN PROFESSIONAL IN ASSOCIATION WITH ENGINEER) FOR CONTRACTORS BID OR CONTRACTORS NEGOTIATIONS WITH THE OWNER. THESE DRAWINGS AND SPECIFICATIONS PREPARED BY THE ENGINEER ARE NOT CONSTRUCTION DOCUMENTS.
 3. 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.
 4. (I) INDICATES NEW EQUIPMENT TO BE PROVIDED UNDER THIS CONTRACT.
 5. (E) INDICATES EXISTING EQUIPMENT ON SITE WHICH MAY OR MAY NOT NEED TO BE RELOCATED AS A PART OF THIS WORK.
 6. (R) INDICATES EXISTING EQUIPMENT TO BE RELOCATED AS PART OF THIS WORK.
 7. FURNISH MEANS TO SUPPLY AND USUALLY REFERS TO AN ITEM OF EQUIPMENT.
 8. INSTALL MEANS TO SET IN PLACE, CONNECT AND PLACE IN FULL OPERATIONAL ORDER.
 9. PROVIDE MEANS TO FURNISH AND INSTALL.
 10. 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.
- 9.11. BY INFERENCE, ANY REFERENCE TO THE DIVISION OF WORK 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).

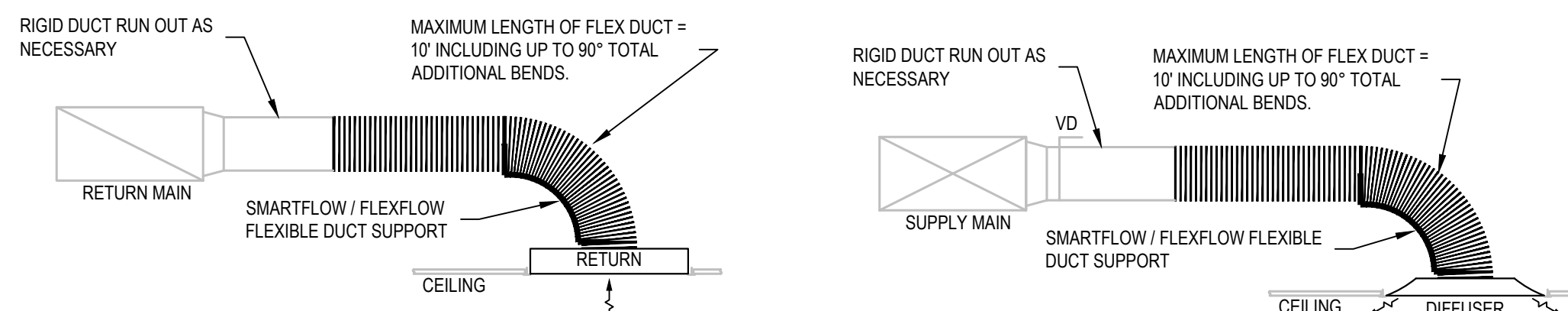


FURNACES:

- 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



NOT TO SCALE

2 NOT TO SCALE



FES PROJECT: 21009

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PRINT RECORD

[illegible]

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

PROJECT
06/28/2021



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

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

SEAL

Mechanical Notes & Details

DRAWING TITLE

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Drawn By:

JG, CH

Checked By:

RE

M001



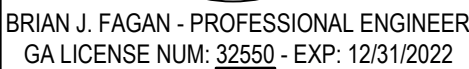
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[PRINT RECORD](#)

DESCRIPTION (DOT INDICATES SHEET WAS REVISED)

COUNTY ELECTIONS OFFICE
REMODEL
175 JOHNSON AVENUE
FAYETTEVILLE, 30214 GEORGIA
PROJECT #3149

06/28/2021



FOR REVIEW PURPOSES ONLY
Release Date: May 25, 2021

Mechanical Schedules

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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-PIPE PVC FLUE THROUGH ROOF PER MANUFACTURER DETAIL

NOTES:

- 1) SEE MECHANICAL DRAWINGS FOR SEQUENCE
- 2) GRAVITY BACKDRAFT DAMPER

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.

NOTES:

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	High-Performance Server (HP-Server)
2	Enterprise Storage Array (ESA)
3	Network Switch (NS)
4	Firewall (FW)
5	Security Monitoring System (SMS)
6	Backup and Recovery System (BRS)
7	Disaster Recovery System (DRS)
8	Cloud Migration Service (CMS)
9	IT Support and Maintenance (ITSM)
10	Compliance and Audit System (CAS)
11	Business Continuity Plan (BCP)
12	IT Security Policy (ITSP)
13	IT Asset Management (ITAM)
14	IT Risk Management (ITRM)
15	IT Governance Framework (ITGF)
16	IT Service Management (ITSM)
17	IT Project Management (ITPM)
18	IT Change Management (ITCM)
19	IT Configuration Management (ITCM)
20	IT Incident Management (ITIM)
21	IT Problem Management (ITPM)
22	IT Knowledge Management (ITKM)
23	IT Service Catalog (ITSC)
24	IT Service Level Agreement (ITSLA)
25	IT Service Request Management (ITSRM)
26	IT Service Incident Management (ITSIM)
27	IT Service Problem Management (ITSPM)
28	IT Service Knowledge Management (ITSKM)
29	IT Service Catalog Management (ITSCM)
30	IT Service Level Agreement Management (ITSLAM)
31	IT Service Request Management (ITSRM)
32	IT Service Incident Management (ITSIM)
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99	IT Service Problem Management (ITSPM)
100	IT Service Knowledge Management (ITSKM)

- 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% Et, Required Efficiency: 80.00 % Et (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% Et, Required Efficiency: 80.00 % Et (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

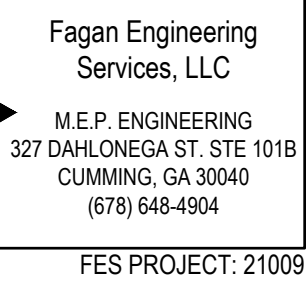
SYSTEM VERIFICATION REQUIRED.

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.	<i>Brian Fagan</i>	05/07/2021
Name - Title	Signature	Date

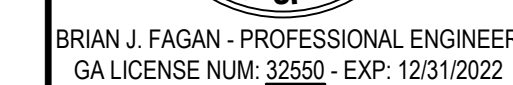
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PROJECT
06/28/2021



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20-3142



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PROJECT #

20-3142



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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 W/ 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 ZB12C4-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

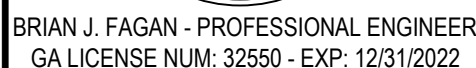
	PUMP
	FLOOR DRAIN
	FLOOR SINK
	HUB DRAIN
	VENT THROUGH ROOF
	WATER METER
	WATER HEATER
	DOMESTIC COLD WATER
	DOMESTIC HOT WATER
	140°F DOMESTIC HOT WATER
	DOMESTIC RECIRCULATION
	SANITARY
	VENT
	STORM DRAIN
	NATURAL GAS
	PROPANE (LP) GAS
	GREASE DRAIN
	INDIRECT WASTE

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

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175 JOHNSON AVENUE
FAYETTEVILLE, 30214 GEORGIA
PROJECT #3142

06/28/202



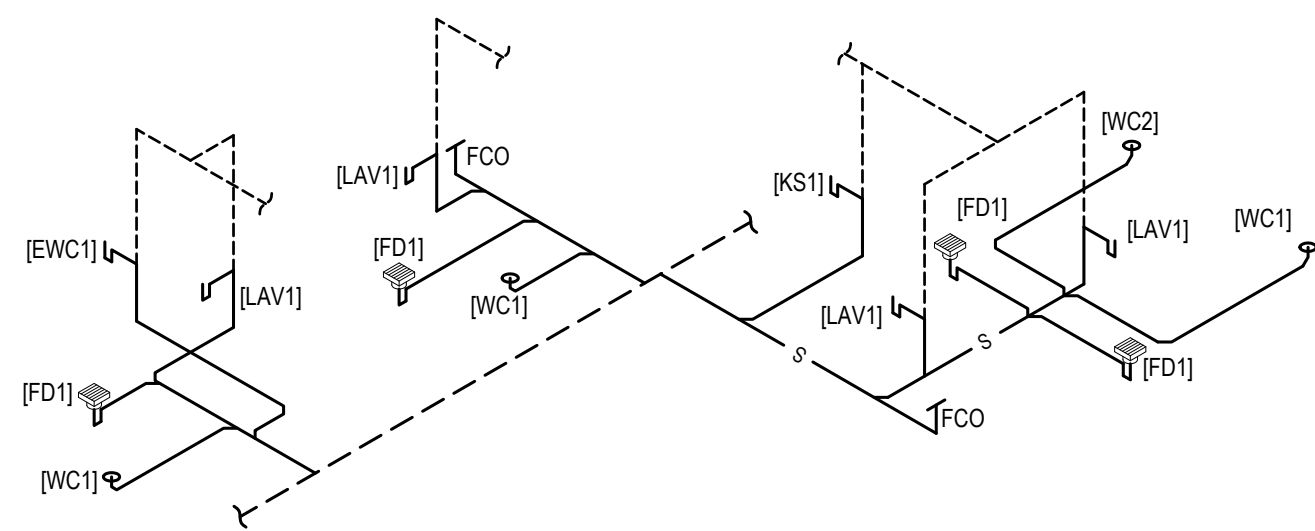
SEAL

DRAWING TITLE

P100

20-314

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

[illegible]

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



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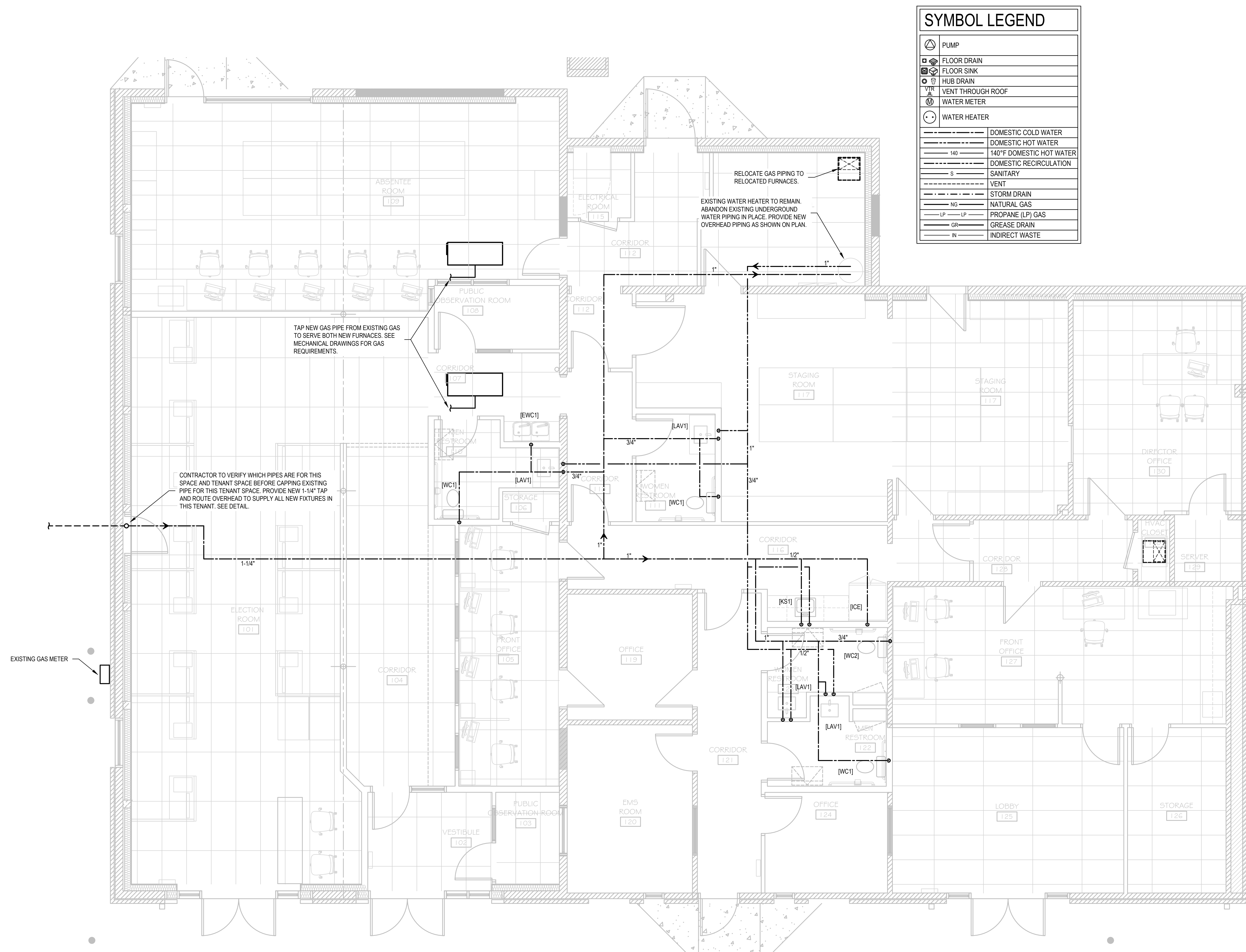
FINAL DRAWING
FOR REVIEW PURPOSES ONLY
Release Date: May 25, 2021

SEAL

DRAWING TITLE

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Drawn By:	P101
JG, CH	
Checked By:	
BJF	
PROJECT #	
90-3149	



1 PLUMBING DOMESTIC WATER PLAN

H	P101
JF	

TAG	DESCRIPTION	LAMP(S)				FIXTURE WATTS	VOLTAGE	DIMMABLE	PROVIDED BY	INSTALLED BY	MOUNTING / COMMENTS	BASIS OF DESIGN
		TYPE	NOM LUMEN	COLOR	CRI							
[L1]	2X4 FLAT PANEL	LED	4000	3500	80	38	120	10% 0-10V	E.C.	E.C.	LAY IN TILE	LITHONIA EPANL 2X4
[L2]	2X2 FLAT PANEL	LED	2000	3500	80	19	120	10% 0-10V	E.C.	E.C.	LAY IN TILE	LITHONIA EPANL 2X2
[L3]	1X1 FLAT PANEL	LED	2000	3500	80	27	120	10% 0-10V	E.C.	E.C.	SURFACE MOUNT	LITHONIA EPANL 1X1 1/4X5MWH
[L4]	CANOPY LIGHT	LED	3500	4000	80	27	120/277	NO	E.C.	E.C.	CANOPY SURFACE MOUNT	LITHONIA CNY LED
[EM2]	EXTERIOR EMERGENCY LIGHT	LED	-	-	-	-	120/277	NO	E.C.	E.C.	EXTERIOR WALL MOUNTED ABOUT EXIT DOOR	LITHONIA AFF
[EM]	EMERGENCY LIGHT	LED	-	-	-	-	120	NO	E.C.	E.C.	WALL MOUNTED	LITHONIA EU2L
[EX]	EXIT SIGN	LED	-	-	-	-	120	NO	E.C.	E.C.	RECESSED MOUNT IN CEILING	LITHONIA EDGR

NOTES:
1) VERIFY ALL MOUNTING HEIGHTS WITH ARCHITECTURAL PLANS AND OWNER BEFORE INSTALLATION.

NOTES:

1) VERIFY ALL MOUNTING HEIGHTS WITH ARCHITECTURAL PLANS AND OWNER BEFORE INSTALLATION.

1. ALL ELECTRICAL WORK SHALL BE IN STRICT ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE AS WELL AS THE APPLICABLE UNIFORM CONSTRUCTION CODE AND LOCAL ORDINANCES.
2. ALL CONDUCTORS SHALL BE COPPER UNO. ALUMINUM WILL NOT BE ACCEPTED UNLESS SPECIFICALLY LISTED IN THE FEEDER TABLE.
3. ALL CABLEING SHALL BE IN PVC CONDUIT WHERE UNDERGROUND, IN EMT WHERE EXPOSED, IN GRC WHERE EXPOSED TO DAMAGE, WITH THWTHHN CONDUCTORS WITH A FULL SIZE GROUNDING CONDUCTOR, UNO. CONCEALED CABLEING IN DRY LOCATIONS MAY BE FMC CABLE WITH FULL SIZE GROUNDING CONDUCTOR.
4. ALL CIRCUITS SHALL BE MINIMUM WIRE SIZE OF #12 AWG CU EXCEPT FOR SIGNAL AND CONTROL WIRING UNO.
5. EC SHALL FURNISH AND INSTALL DISCONNECT SWITCHES AS REQUIRED BY CODE WHETHER OR NOT THEY ARE INDICATED ON PLANS. EC SHALL INSTALL AND CONNECT POWER WIRING TO EQUIPMENT FURNISHED BY OTHERS AND SHALL WIRE LINE VOLTAGE THERMOSTATS FOR MECHANICAL EQUIPMENT AS WELL AS LINE SIDE OF ALL STARTERS, RELAYS, AND CONTACTORS FOR MECHANICAL EQUIPMENT.
6. EC SHALL VERIFY ALL DIMENSIONS PRIOR TO BEGINNING WORK.
7. MULTI-WIRE CIRCUITS (NEUTRAL SHARING) ARE PROHIBITED FROM THE ENTIRE PROJECT UNLESS WRITTEN PERMISSION IS OBTAINED FROM THE ENGINEER.
8. EC SHALL WIRE ALL BATTERY BACKED BALLAST, SECURITY RECEPTACLES, SENSORS, EMERGENCY LIGHTS AND EXIT SIGNS AHEAD OF ANY SWITCHES, EMERGENCY LIGHTING AND EXIT SIGNS SHALL BE FED FROM THE SAME BRANCH CIRCUIT AS THAT SERVING THE NORMAL LIGHTING IN THE AREA. BATTERIES MUST BE POWERED AT ALL TIMES.
9. DRAWINGS ARE DIAGRAMMATIC. FIELD TO BIDDING VERIFY CONDITIONS, LOCATIONS AND REQUIREMENTS IN THE FIELD TO ENSURE A COMPLETE AND PROPERLY OPERATIONAL SYSTEM. EXAMINE ALL CONTRACT DWGS. FOR REQUIREMENTS AFFECTING WORK OF THE ELECTRICAL TRADE.
10. QUESTIONS REGARDING THESE DRAWING SHALL BE ADDRESSED TO THE ENGINEER PRIOR TO THE AWARDING OF THE CONTRACT. OTHERWISE THE ENGINEER'S INTERPRETATION OF THE MEANING AND INTENT OF THE DRAWINGS SHALL BE FINAL.
11. COORDINATE LOCATIONS AND MOUNTING HEIGHTS OF THE OUTLET BOXES, JUNCTION BOXES, AND EQUIPMENT DISCONNECTION TO AGREE WITH REQUIRED LOCATIONS OF FURNISHINGS OF EQUIPMENT SERVED. GENERALLY, RECEPTACLES SHALL BE MOUNTED 18" AFF AND LIGHT SWITCHES AT 42" AFF. UNO.
12. ELECTRICAL CONTRACTOR SHALL BALANCE THE LOAD IN EACH PANEL TO PROVIDE THE MOST EVEN DISTRIBUTION PRACTICAL.
13. EXTERIOR LIGHTING SHALL BE CONTROLLED BY A PHOTOCCELL UNO. TIMECLOCK OFF ARRANGEMENT. UNO.

EC - ELECTRICAL CONTRACTOR AFG - ABOVE FINISHED GRADE UNO - UNLESS OTHERWISE NOTED	AFF - ABOVE FINISHED FLOOR ETR - EXISTING TO REMAIN
--	--

POWER AND WATER SERVICES TO REMAIN IN SERVICE.
PUBLIC DEFENDER'S OFFICE IS SAME FEED. COORDINATE
WITH SHARON LUNSFORD AT 770-716-4340 IF
INTERRUPTION IS NEEDED. GC SHOULD BE LICENSED
THROUGH STATE OF GEORGIA.

1. 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 SPECIFIC LIST OF ADOPTED CODES.

2. NOTE THAT THIS BUILDING USES A FULLY DUCTED RETURN WITHOUT A RETURN AIR PLenum.

3. 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.

4. 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 AWARDING OF THE CONTRACT. OTHERWISE THE A/E TEAM'S INTERPRETATION OF THE MEANING AND INTENT OF THE DRAWINGS SHALL BE FINAL.

5. 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.

6. 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.

7. 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.

7.1. 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.

7.2. 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.

7.3. 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 REQUIRED BY THE ARCHITECT/ENGINEER FOR RECORD AND COMMENT. ANY WORK INSTALLED WITHOUT APPROVED COORDINATION DRAWINGS IS DONE AT THE CONTRACTOR'S RISK.

7.4. THESE NOTES ONLY SUPPLEMENT, AND DO NOT REPLACE, THE SPECIFICATIONS.

8. DIVISIONS

8.1. 1: GENERAL, 21: FIRE SUPPRESSION, 22: PLUMBING, 23: HVAC, 25: AUTOMATION, 26: ELECTRICAL, 27: COMMUNICATIONS, 28: ELECTRONIC SAFETY AND SECURITY

9. DEFINITIONS AND TERMINOLOGY

9.1. THE DEFINITIONS AND GENERAL CONDITIONS OF THIS SPECIFICATION ALSO APPLY TO MEP DIVISION CONTRACT DOCUMENTS.

9.2. CONTRACT DOCUMENTS CONSTITUTE THE DRAWINGS, SPECIFICATIONS, GENERAL CONDITIONS, PROJECT MANUALS, ETC., PREPARED BY ENGINEER (OR OTHER DESIGN PROFESSIONAL IN ASSOCIATION WITH ENGINEER) FOR CONTRACTORS' BID OR CONTRACTORS' NEGOTIATIONS WITH THE OWNER. THESE DRAWINGS AND SPECIFICATIONS PREPARED BY THE ENGINEER ARE NOT CONSTRUCTION DOCUMENTS.

9.3. 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.

9.4. (N) INDICATES NEW EQUIPMENT TO BE PROVIDED UNDER THIS CONTRACT.

9.5. (E) INDICATES EXISTING EQUIPMENT ON SITE WHICH MAY OR MAY NOT NEED TO BE RELOCATED AS A PART OF THIS WORK.

9.6. (R) INDICATES EXISTING EQUIPMENT TO BE RELOCATED AS PART OF THIS WORK.

9.7. FURNISH MEANS TO SUPPLY AND USUALLY REFERS TO AN ITEM OF EQUIPMENT.

9.8. INSTALL MEANS TO SET IN PLACE, CONNECT AND PLACE IN FULL OPERATIONAL ORDER.

9.9. PROVIDE MEANS TO FURNISH AND INSTALL.

9.10. 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.

9.11. 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 HIS/HER SUPPLIERS, SUBCONTRACTORS AND EMPLOYEES. IF CLARIFICATION IS REQUIRED, CONSULT ARCHITECT/ENGINEER BEFORE SUBMITTING BID.

9.12. BY REFERENCE, ANY REFERENCE TO A CONTRACTOR OR SUB-CONTRACTOR MEANS THE ENTITY WHICH HAS CONTRACTED WITH THE OWNER FOR THE WORK OF THE CONTRACT DOCUMENTS.

9.13. 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).

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[PRINT RECORD](#)[illegible]

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

06/28/2021



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

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

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Electrical Schedules, Notes, & Details

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Drawn By:	
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	JG, CH	
CH, JG		5001

Checked by:	E001
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PROJECT #	
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20-3142

Fagan Engineering Services

Utility Fault Current amperes kVA = 150
 E = 208
I = $\frac{kVA \times 1000}{E \times 1.732}$ = trans. FLA trans. FLA = 416 jmp1ds@comcast.net

$$I_{sca} = \frac{\text{trans. FLA} \times 100 \times \text{PF}}{\text{transformer Z}} = \frac{1000 \times 100 \times 0.95}{12.5} = 7,600 \text{ amperes}$$

Point to Point Method

Length (distance) FEET = =

'r' factor = (ASC) = = **Phase Conductor**

conductors per phase = **Volt**

= = **Neutral Conductor**

Multiplier = **Volt**

=

M =

$\frac{M}{1 + f}$	Line to Line	M =	0.825
	Line to Neutral	M =	0.475
Fault Current at Service Equipment			

$I_{SCA} \times M$	= fault current at terminals of main disconnect L-L =	\longrightarrow	7,228 amperes
$I_{SCA} \times M$	= fault current at terminals of main disconnect L-N =	\longrightarrow	4,161 amperes

MDP		LOCATION:		ASBESTE ROOM		KEY NOTES:				
EXISTING PANEL - SURFACE MOUNTED		FED FROM:		UTILITY SERVICE		(1)				
120 / 208 / 240 D - 3 PHASE - 4 WIRE		COMMENTS:		WARNING B IS HIGH LEG		(2)				
400 AMP BUS - 400 AMP MCB						(3)				
RATINGS: EXISTING UNKNOWN AIC						(4)				
				PHASE LOADINGS		(5)				
				50% 0% 50% 50%						
KEY	LOAD DESCRIPTION	OCIP	P (AS)	CKT	LOAD - VA	CKT	P (AS)	OCIP	LOAD DESCRIPTION	KEY
				A _{ph}	B _{ph}	C _{ph}				
	SPACE AND BUS		1	1	0			2	1	
	SPACE AND BUS		1	3	0			4	1	
	SPACE AND BUS		2	5	0			6	1	
	PANEL LA	200	2	7	9288	12000	8	1	200	PANEL LB
		200			9200		8	1	200	
	SPACE AND BUS		1	9	0			10	1	
	SPACE AND BUS		1	11	0			12	1	
		200		13	3880			14	1	
	PANEL SB1	200	3	15	0			16	1	
		200		17	0	8740	18	1		
	SPACE AND BUS		1	19	0			20	1	
	SPACE AND BUS		1	21	0			22	1	
	SPACE AND BUS		1	23	0			24	1	
CONNECTED LOAD PER PHASE (kVA)				29.2	0.0	30.2				
DESIGN LOAD PER PHASE (AMPS)				232.0	0.0	236.8				
TOTAL CONNECTED LOAD (kVA): 59				TOTAL CONNECTED AMPS: 165						
TOTAL DESIGN LOAD (kVA): 57				TOTAL DESIGN AMPS: 157						

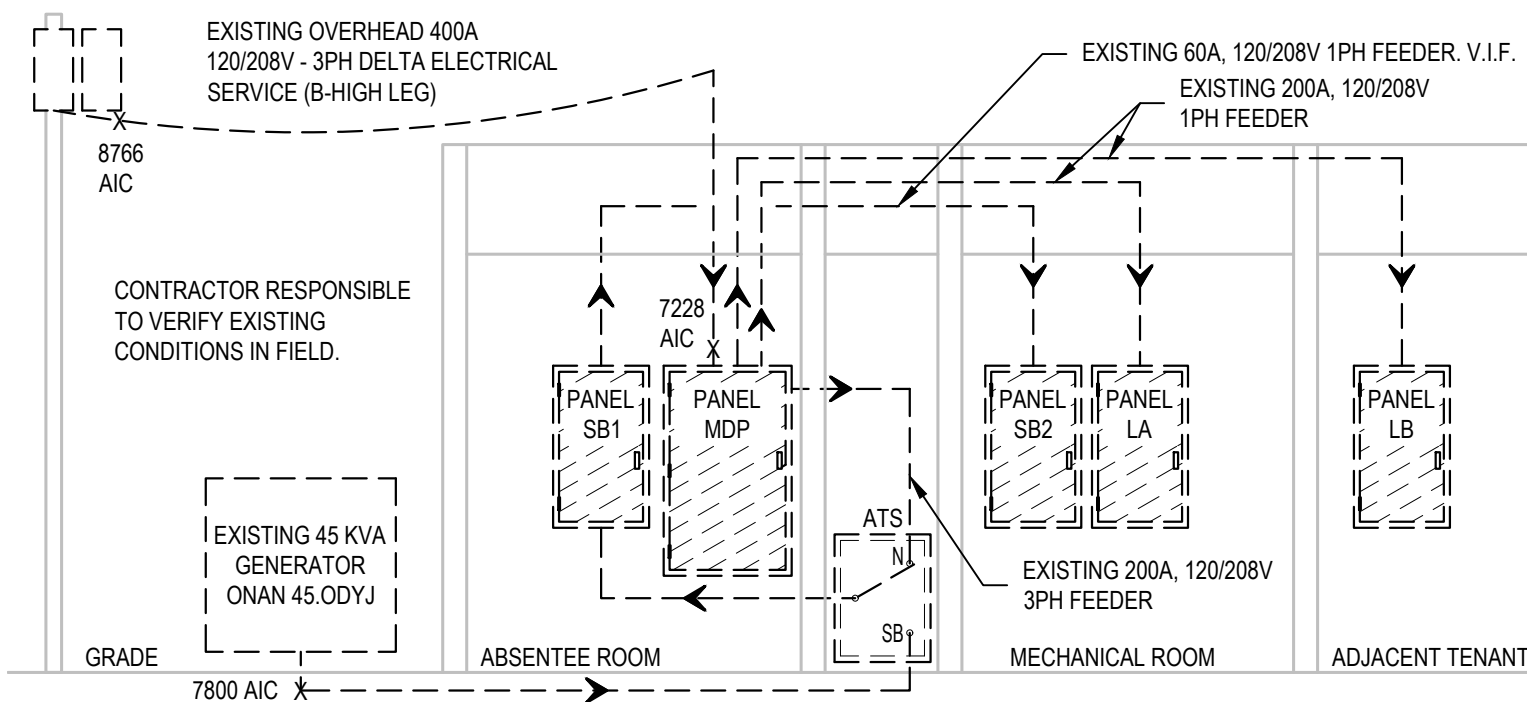
PANEL SB1		LOCATION:		ABSSENTEE ROOM			KEY NOTES:		
EXISTING PANEL - SURFACE MOUNTED		FED FROM:		ATS			1)		
120 / 208 / 240 D - 3 PHASE - 4 WIRE		COMMENTS:		WARNING B IS HIGH LEG			2)		
200 AMP BUS - 150 AMP MCB							3)		
RATING: 2X AIC							4)		
							5)		
		PHASE LOADING			PANEL				
		51% 0% 50% 34%							
KEY	LOAD DESCRIPTION	OCIP	P (AS)	CKT	A ₁	B ₂	C ₃	P (AS)	KEY
	RECEPT - ABSSENTEE	20	1	1	540		2	1	20
	HIGH LEG		1	3	540		4	1	
		60		5		500		1	20
	PANEL SB2	60	2	7	1140		8	1	20
	HIGH LEG		1	9	540		10	1	
				11		540		12	1
	VOTING MACHINE	20	1	13	540		14	1	20
	HIGH LEG		1	15		0	16	1	
	RECEPT - VOTING	20	1	17		520	18	1	20
	LIGHTING	20	1	19	1000		20	1	20
	HIGH LEG		1	21	540		22	1	
	LIGHTING	20	1	23		1000	24	1	20
	VOTING MACHINE	20	1	25	0	500	26	1	20
	HIGH LEG		1	27		0	28	1	
	VOTING MACHINE	20	1	29		0	30	1	20
CONNECTED LOAD PER PHASE (kVA)					8.9	0.0	8.7		
DESIGN LOAD PER PHASE (AMPS)					77.1	0.0	74.9		
TOTAL CONNECTED LOAD (kVA): 18					TOTAL CONNECTED AMPS: 49				
TOTAL DESIGN LOAD (kVA): 18					TOTAL DESIGN AMPS: 51				

PANEL LA			LOCATION: MECHANICAL ROOM		KEY NOTES:					
EXISTING PANEL - SURFACE MOUNTED			FED FROM: MDP		1) GFCI BREAKER					
120 / 208V - 1 PHASE - 3 WIRE			COMMENTS:		2)					
200 AMP BUS - 200 AMP MCB					3)					
RATINGS: EXISTING UNKNOWN SCRR					4)					
					5)					
			PHASE LOADING PANEL							
			25% 20% 35%							
LEG	LOAD DESCRIPTION	OCB	P (AS)	LOAD - VA	CTK	P	OCB	LOAD DESCRIPTION	LEG	
				A ₀	B ₀					
	[AC-1]	30	2	1	1547	2	1	20	SPARE	1
				3	0	1547		20	SPARE	
	[FRN-1]	30	1	5	855	5	1	20	SPARE	
				0	0	8		20	SPARE	
	[AC-2]	30	2	7	1547	8	1	20	SPARE	
				0	0	10		20	SPARE	
	[FRN-2]	20	1	11	855	12	1	20	SPARE	
				13	1547	14	1	20	SPARE	
	[AC-3]	30	2	15	0	15	1	20	SPARE	
				17	855	18	1	20	SPARE	
	[FRN-3]	30	1	19	0	19	1	20	SPARE	
				21	1547	20	1	20	SPARE	
	[AC-4]	30	2	23	0	22	1	20	SPARE	
				25	855	24	1	20	SPARE	
	[FRN-4]	20	1	26	1200	26	1	20	SPARE	
	MOTORIZED DAMPERS	20	1	27	0	28	1	20	SPARE	
	SPARE	20	1	29	0	30	1	20	SPARE	
				31	0	32	1	20	SPARE	
	SPARE	20	1	33	0	34	1	20	SPARE	
				35	0	36	1	20	SPARE	
	SPARE	20	1	37	0	38	1	20	SPARE	
				39	0	40	1	20	SPARE	
				9.5	8.3					
				54.9	54.9					
CONNECTED LOAD PER PHASE (kVA)				9.5	8.3					
DESIGN LOAD PER PHASE (AMPS)				54.9	54.9					
TOTAL CONNECTED LOAD (kVA): 18						TOTAL CONNECTED AMPS: 86				
TOTAL DESIGN LOAD (kVA): 14						TOTAL DESIGN AMPS: 69				

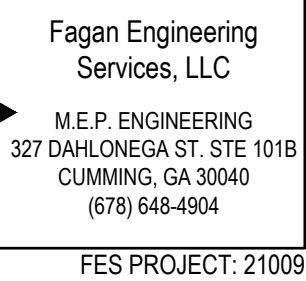
PANEL SB2				MECHANICAL ROOM				KEY NOTES:			
EXISTING PANEL - SURFACE MOUNTED				FED FROM: PANEL SB1				1)			
120 / 240V - 1 PHASE - 3 WIRE								2)			
100 AMP BUS - MAIN LUG ONLY								3)			
RATING: EXISTING UNKNOWN SCRR								4)			
				PHASE LOADING PANEL				5)			
				42% 25% 38%							
KEY	LOAD DESCRIPTION	OCF	P (AS)	CKT	LOAD - VA		CKT	P	OCF	LOAD DESCRIPTION	KEY
					A _b	B _b					
	RECEPT - CORRIDOR	20	1	1	540		2	1	20	RECEPT - MECH ROOM	
	RECEPT - DRINKING FOUNTAIN	20	1	3	540	540	4	1	20	RECEPT - CORRIDOR	
	RECEPT - BREAK AREA	20	1	5	540	540	4	1	20	RECEPT - STAGING ROOM	
	SPARE	20	1	7	540	0	8	1	20	RECEPT - STAGING ROOM	
	RECEPT - SERVER	20	1	9	360	540	10	1	20	RECEPT - DIRECTOR'S OFFICE	
	RECEPT - SERVER	20	1	11	360	540	12	1	20	RECEPT - FRONT OFFICE	
	RECEPT - SERVER	20	1	13	360	540	14	1	20	RECEPT - FRONT OFFICE	
	SPARE	20	1	15	0	540	16	1	20	RECEPT - PRINTER	
	SPARE	20	1	17	0	540	18	1	20	RECEPT - LOBBY	
	SPARE	20	1	19	0	540	20	1	20	RECEPT - OFFICE	
	SPARE	20	1	21	0	540	22	1	20	RECEPT - OFFICE	
	SPARE	20	1	23	0	540	24	1	20	RECEPT - REFRIGERATOR	
CONNECTED LOAD PER PHASE (kVA)					5.0	4.1					
DESIGN LOAD PER PHASE (AMPS)					42.0	34.5					
TOTAL CONNECTED LOAD (kVA): 9					TOTAL CONNECTED AMPS: 38						
TOTAL DESIGN LOAD (kVA): 9					TOTAL DESIGN AMPS: 38						

FAULT CURRENT CALCULATION NOTES:

- ALL PANELS ARE EXISTING TO REMAIN.
- EXISTING POLE TRANSFORMER SIZES UNKNOWN. LIKELY UNDER 100 KVA BUT CONSERVATIVELY ESTIMATED AT 150KVA.
- AVAILABLE FAULT CURRENT FROM ACTUAL GENERATOR IS UNKNOWN, BUT SIMILAR 45KVA UNITS ARE LISTED AT 7800 AIC.
- ALL PANELS SHALL BE RATED AT A MINIMUM OF 10,000 AIC.



EXISTING ELECTRICAL RISER DIAGRAM (REFERENCE ONLY)



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

PROJECT
06/28/202



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

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

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Electrical Lighting Plan

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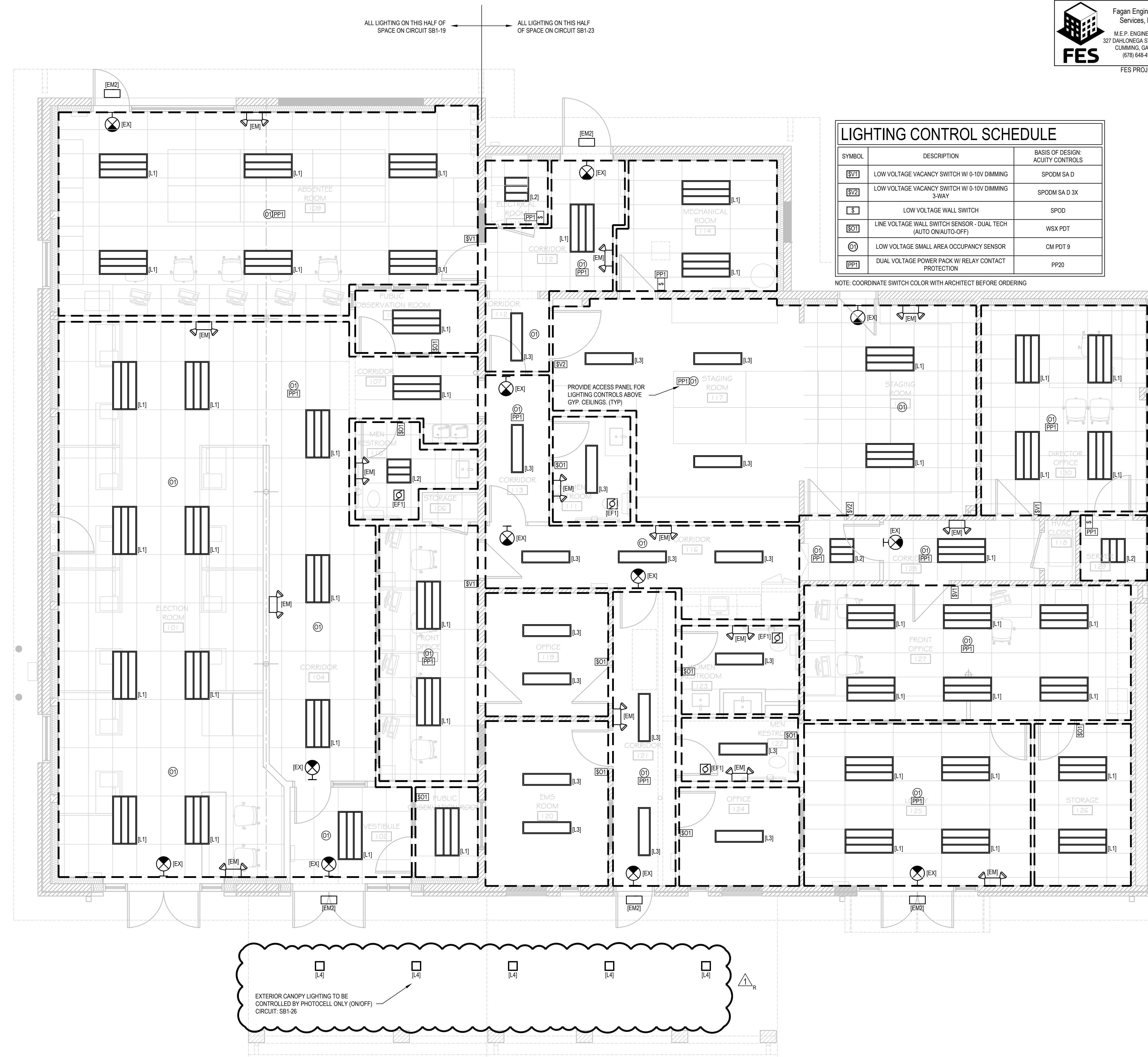
JG, CH

Checked By: _____

PROJECT 4

PROJECT # 90-3149

E101



1 ELECTRICAL LIGHTING PLAN

1