CONSULTANTS :

MECHANICAL / PLUMBING
Total Engineering
169 New Street,
Macon, Georgia 31201

ELECTRICAL
Electrical Design Consultants
175 New Street, Suite 1
Macon, Georgia 31201

BUILDING CODE ANALYSIS :

APPLICABLE CODES

2018 International Building Code with Georgia Amendments
2018 International Fire Code as adopted and amended by the Rules and Regulations of the Safety Fire Code Commissioner Chapter 120-3-3.-04(3)
2024 Life Safety Code as adopted and amended by the Rules and Regulations of the Safety Fire Code Commissioner Chapter 120-3-3.-04(72)
2018 International Mechanical Code with Georgia Amendments
2018 International Plumbing Code with Georgia Amendments
2019 edition of NFPA 13 (Standard for the Installation of Sprinkler Systems), as adopted and amended by the Rules and Regulations of the Safety Fire Code Commissioner Chapter 120-3-3.-04(10)
2019 edition of NFPA 72 (National Fire Alarm and Signaling Code), as adopted and amended by the Rules and Regulations of the Safety Fire Code Commissioner Chapter 120-3-3.-04(53)
2023 National Electrical Code
2015 International Energy Conservation Code with Georgia Amendments
2010 Americans with Disabilities Act Standards for Accessible Design as adopted and amended by the Rules and Regulations of the Safety Fire Commissioner Chapter 120-3-20.-02(2)(b)
Rules and Regulations of the Safety Fire Commissioner Chapter 120-3-3

BUILDING DATA

CONSTRUCTION TYPE:	II B SPRINKLERED
LIFE SAFETY CODE USE CLASSIFICATION(S):	ASSEMBLY
OCCUPANCY TYPE:	ASSEMBLY A3
IBC:	

TOTAL BUILDING AREA:

TOTAL EXISTING BUILDING = 29,051 S.F.
NEW FINISHED SPACE = 1,493 S.F.

DESIGN OCCUPANT LOAD:

TOTAL EXISTING OCCUPANCY = 391 PEOPLE
(PER PLANS DATED 2-12-2013)

NEW HEARING ROOM = 1,170 S.F. / 7 = 167 PEOPLE

CHANGE OF USE:	NO
AUTO SPRINKLER SYSTEM:	YES
FIRE ALARM SYSTEM:	YES

DEFERRED SUBMITTALS (Separate permit)

- SPRINKLER FIRE PROTECTION (MODIFICATIONS)
- FIRE ALARM SYSTEM (MODIFICATIONS)

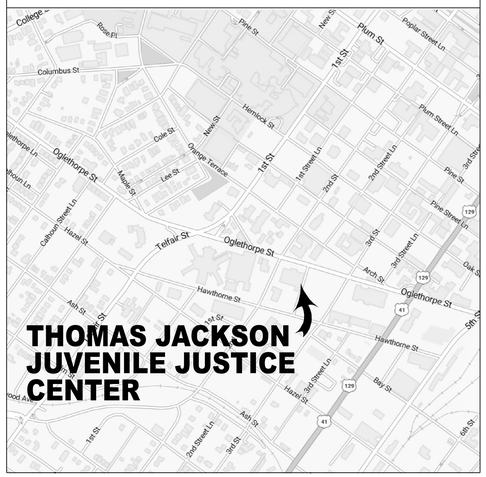
PROJECT TITLE :

HEARING ROOM
THOMAS JACKSON JUVENILE JUSTICE CENTER

560 OGLETHORPE STREET, MACON, GEORGIA

Permit Set

VICINITY MAP :



PROJECT NARRATIVE:

BUILD-OUT OF UNFINISHED SPACE FOR HEARING ROOM / MULTI-PURPOSE SPACE.

DRAWING INDEX : 13

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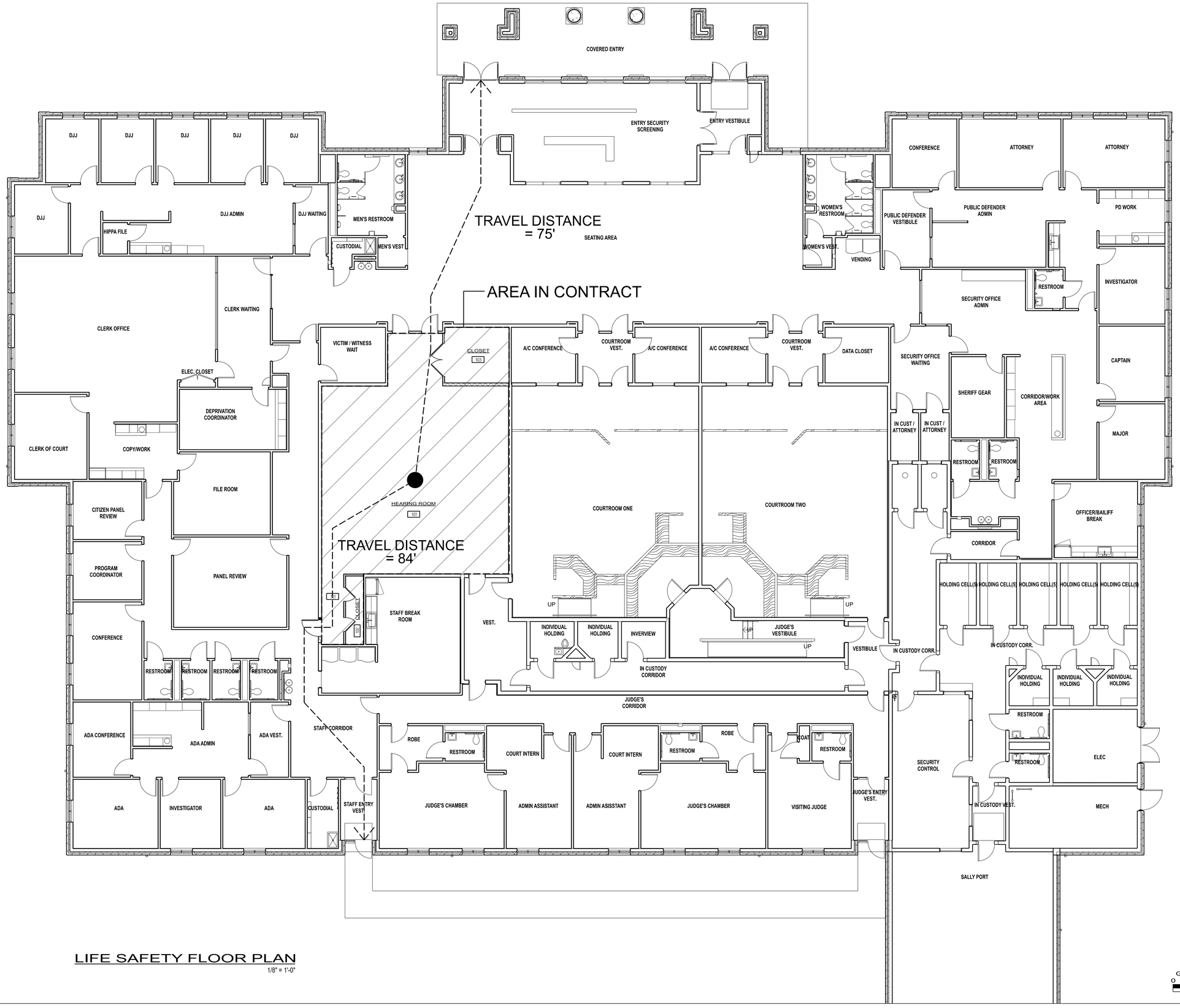
HEARING ROOM
THOMAS JACKSON JUVENILE JUSTICE CENTER
560 OGLETHORPE STREET, MACON, GEORGIA

Drawing Issue Schedule	
10-16-2025	Permit Set
Project No:	2025-25

Title Sheet, Drawing Index & Code Summary

G1.1



LIFE SAFETY FLOOR PLAN

1/8" = 1'-0"

GRAPHIC SCALE IN FEET
0 10 20

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STATE OF GEORGIA
ROBERT W. BROWN
CERTIFICATE NO. 029
REGISTERED ARCHITECT

HEARING ROOM
THOMAS JACKSON JUVENILE JUSTICE CENTER
560 OGLETHORPE STREET, MACON, GEORGIA

Drawing Issue Schedule	
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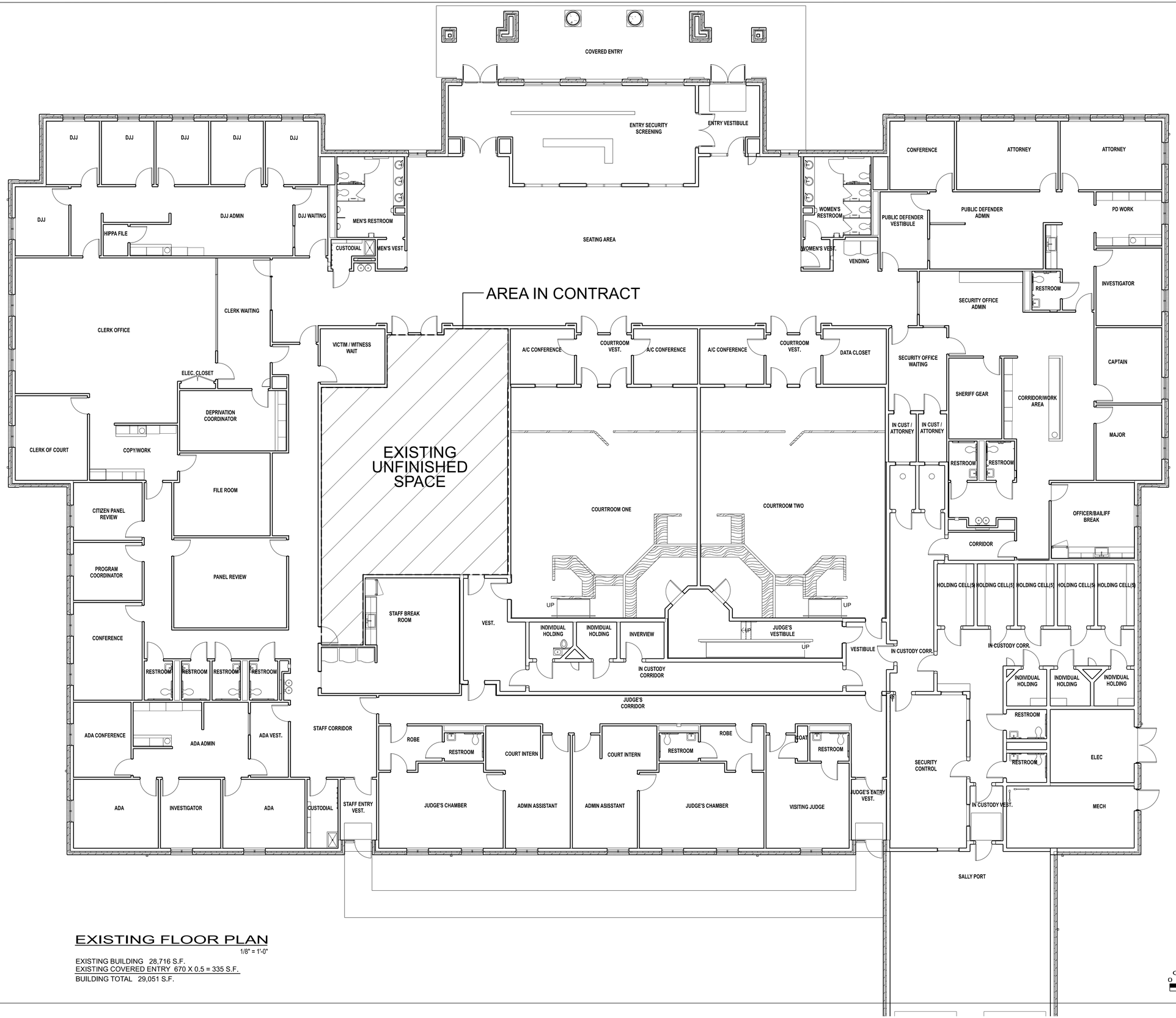
Life Safety Floor Plan

LS1.1



EXISTING FLOOR PLAN

1/8" = 1'-0"

EXISTING BUILDING 28,716 S.F.
EXISTING COVERED ENTRY 670 X 0.5 = 335 S.F.
BUILDING TOTAL 29,051 S.F.

GRAPHIC SCALE IN FEET
0 10 20

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Existing Floor Plan

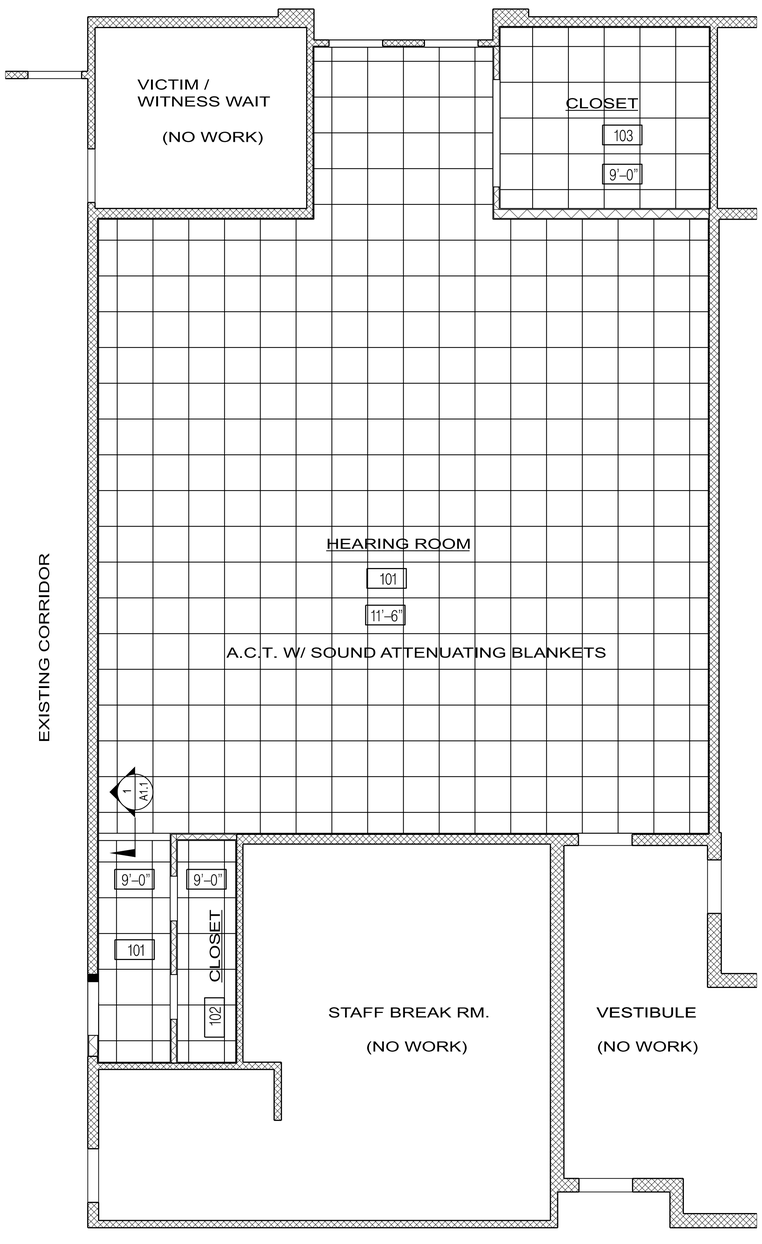
EX1.1

FINISH & MATERIAL SCHEDULE

No.	ROOM NAME	FLOOR		BASE		WALLS		CEILING			REMARKS
		MATERIAL	FINISH	MATERIAL	FINISH	MATERIAL	FINISH	MATERIAL	FINISH	HEIGHT	
101	HEARING ROOM	CARPET	CLEAN	WOOD	STAIN	GYPSUM BOARD	PAINT	A.C.T.	FACTORY	11'-6" /9'-0"	
102	CLOSET	CARPET	CLEAN	RESILIENT	CLEAN	GYPSUM BOARD	PAINT	A.C.T.	FACTORY	9'-0"	
103	CLOSET	CARPET	CLEAN	RESILIENT	CLEAN	GYPSUM BOARD	PAINT	A.C.T.	FACTORY	9'-0"	

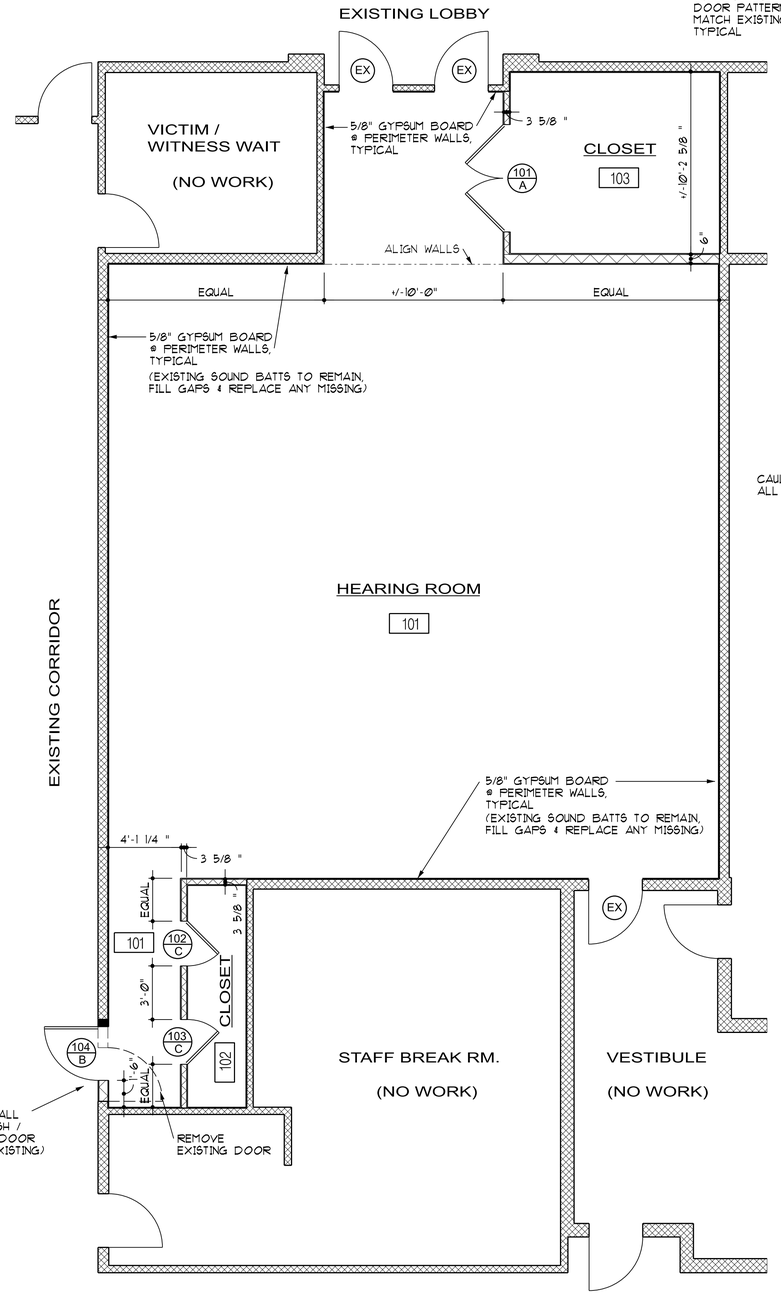
NOTES:
1.) CARPET SHALL BE SHAW DISPERSE COLOR (24x24), STYLE 5T479, COLOR "WARM BLUE" No. 78721.
2.) WOOD BASE /STAIN TO MATCH ADJACENT COURTROOM ONE.
3.) A.C.T. SHALL MATCH EXISTING AT COURTROOM ONE. INSTALL SOUND ATTENUATING BLANKETS OVER EXISTING CEILING.

ABBREVIATIONS
A.C.T. ACOUSTICAL CEILING TILE



PARTIAL REFLECTED CEILING PLAN - HEARING ROOM

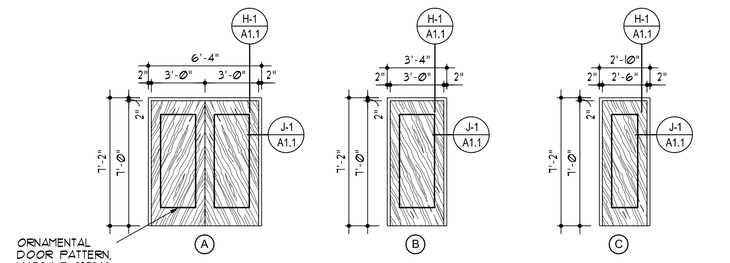
1/4" = 1'-0"



PARTIAL FLOOR PLAN - HEARING ROOM

1/4" = 1'-0"

GRAPHIC SCALE IN FEET
0 5 10



PAIR SOLID CORE FLUSH WOOD DOORS IN KNOCK DOWN HOLLOW METAL FRAME

SOLID CORE FLUSH WOOD DOOR IN KNOCK DOWN HOLLOW METAL FRAME

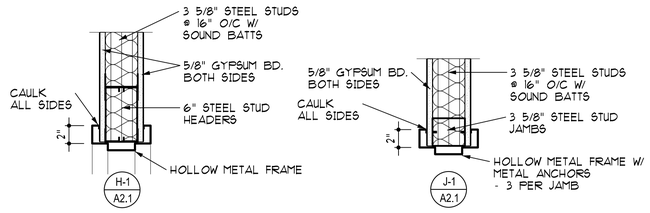
SOLID CORE FLUSH WOOD DOOR IN KNOCK DOWN HOLLOW METAL FRAME

DOOR & FRAME TYPES

1/4" = 1'-0"

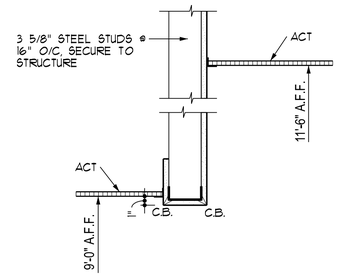
NOTE:
DOORS TO BE PREMIUM GRADE A FACE, SPECIES - ANIGRE (QUARTERED, NON-FIGURED, BOOK-MATCHED); APPLIED MOULDING & MATCH EXISTING DOORS AS CLOSELY AS POSSIBLE, NEW DOOR HARDWARE SHALL MATCH EXISTING.

HARDWARE NOTES:
NEW DOOR HARDWARE TO MATCH EXISTING.
DOOR(S) A - HINGES, STOREROOM LOCK, OVERHEAD CLOSER, HEAD & FOOT BOLT
DOOR B - MATCH EXISTING HARDWARE SET
DOOR(S) C - HINGES, STOREROOM LOCK, OVERHEAD CLOSER



DOOR DETAILS

1 1/2" = 1'-0"



1 / A1.1 FURRING DETAIL

1 1/2" = 1'-0"

WALL LEGEND

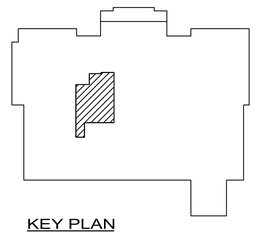
EXISTING WALL - INSTALL NEW 5/8" TYPE "X" GYPSUM BOARD AT INTERIOR SPACES 101, 102 AND 103

5/8" TYPE "X" GYPSUM BOARD, STEEL STUDS @ 16" O/C (REFER TO PLAN FOR SIZE) W/ SOUND BATTS, 5/8" TYPE "X" GYPSUM BOARD

LEGEND

EX EXISTING DOOR TO REMAIN

101 / A DOOR NUMBER / DOOR TYPE



KEY PLAN
NO SCALE

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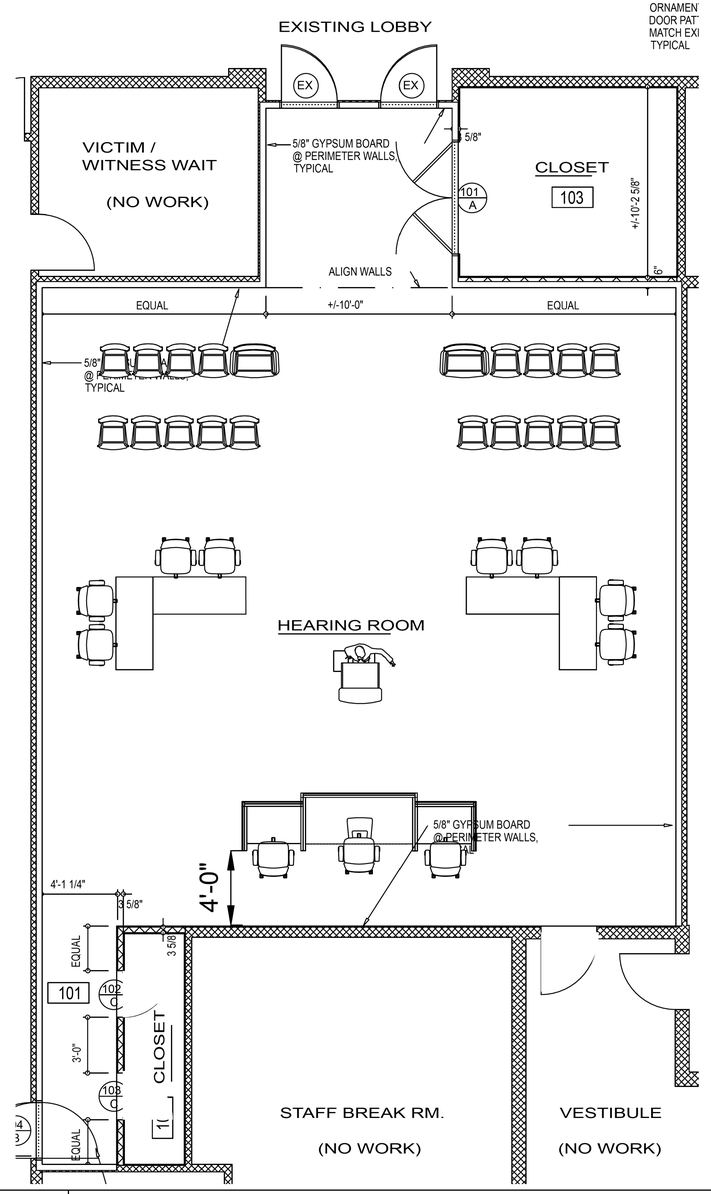
Floor Plan, Reflected Ceiling Plan, Schedules & Details

A1.1



advent business interiors 1318 US Highway 82 W. Leesburg, Georgia 31763 4509 Knight Road Macon, Georgia 31220	Macon-Bibb Juvenile Justice Center - Hearing Room		
	DESIGNER NAME: Marie Sale	9/19/2025 1/7	This drawing may be utilized only for the purpose of depicting or installing any furniture items shown at the site of work specified. Any other use of this drawing, including reproduction or alteration, without prior written approval of Advent Business Interiors is

NOTE:
FURNISHINGS ARE NOT IN CONTRACT.

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Drawing Issue Schedule	
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Furnishings Plan

A1.2

MECHANICAL SPECIFICATIONS

1) Provide all heating, ventilation and air conditioning items indicated on the drawings, described in this specification or required for a complete and proper installation.

2) Comply with all pertinent codes, ordinances and regulations. Refer to website for Dept. of Community Affairs for current Codes Editions.

3) The contractor shall not attempt to precisely scale dimensions from these drawings to obtain construction dimensions and clearances. The contractor shall verify all actual dimensions and clearances. Although these plans are diagrammatic in nature, they shall be followed as closely as site conditions, new construction, and work by other trades shall permit. Deviations from these drawings, which are required to conform to the available space or the actual building construction, shall be made at no additional cost to the owner.

4) Furnish without extra charge, any additional material and labor required to comply with the above codes and standards, even though the work may not be described in the contract documents. Where the requirements of the contract documents exceed the requirements of the above codes and standards, the contract documents shall take precedence.

5) All equipment and material shall be new and of first quality. Equipment and material shall be the same or equal to the basis of design listed on these drawings and shall be UL listed.

6) Cooperate and coordinate with other trades in order that all systems in the work may be installed in the best arrangement.

7) Examine the areas and conditions under which work of this section will be installed. Correct conditions detrimental to the proper and timely completion of the work. Notify Architect of any discrepancies. Do not proceed until unsatisfactory conditions have been corrected.

8) Avoid interference with structure, and with work of other trades. Install all equipment per manufacturer's instructions. Install accessible parts, including equipment, coils, valves, dampers, controls, and filters with adequate clearance for inspection, adjustments, repair and replacement.

9) All other materials not specifically described but required for a complete and proper installation shall be as selected by the contractor subject to acceptance by the Engineer.

10) All ductwork shall be fabricated from galvanized sheet metal duct and conform to SMACNA "HVAC Duct Construction Standards–Metal and Flexible. Seal all joints in ductwork with mastic sealant.

11) Flexible duct: Flexmaster; Atco UPC#36(R-6.0); Atco UPC#31 (R-8) or Thermaflex, Type 3, insulated. 5'-0" Maximum length unless noted otherwise. Class 1 rating with R-value of 6.0 when located inside building insulation envelope and R-8 when located outside building insulation envelope. Install with no more than 135 degrees maximum of total bends per run. Maximum individual bend shall not exceed 45 degrees each. Support at five feet on centers with hangers having at least 2-inches of width at duct contact points. Flexible connectors shall not pass through any wall floor or ceiling weather rated or not. Provide 36-onches of metal duct at penetration of draft stops, fire walls and smoke walls.

12) Indoor duct insulation: Foil-faced fiberglass, Owens Corning type 75 or equal, 2.2" thick(R-6), unless the insulated duct is outside building insulation envelope (attic, crawlspace or unconditioned space) in which case the duct insulation thickness shall be 3" thick(R-8). Duct shall have a flame spread rating of not more than 25 and smoke developed rating of not more than 50. Glass-Fiber Insulation: All service duct wrap with foil scrim and having backing and a k-value of 0.30 at 75° F mean temperature and an average maximum density of 0.75 lb/cu. ft.

13) All supply and return air ducts shall be insulated. Insulate the concealed tops of all ceiling mounted supply air diffusers with foil-faced fiberglass, 1.5#/cubic foot density, 2" thick. Seal edges to ceiling grid with foil faced tape to provide vapor tight seal.

14) All low pressure duct branches shall contain manual balancing dampers. Manual balancing dampers shall also be installed in the continuation of the main, if the main duct is smaller or the same size as the branch duct, or if the continuation of the main serves only one device.

15) Make all duct elbows right angle type with single -thickness turning vanes or construct with centerline radius 1-1/2 times the duct width.

16) Duct sizes shown on plans are clear, interior dimensions.

17) Do not cut into or reduce the size of any structural member without the permission of the Architect.

18) Support all HVAC units, ductwork, piping and other appurtenances from structure, provide vibration isolation at all fans which are not internally isolated. Provide hanger rod with built in rubber-in-shear isolator. Between drain pan and unit provide 4 each rubber-in-shear isolator. Do not attach vibration isolator to drain pan. Do not screw or drive fasteners into non-structural components such as roof decks or non-load bearing walls.

19) Thoroughly clean all components and remove all dirt, scale, oil, and other foreign substances. Provide clean air filters for all equipment.

20) Perform all tests necessary to demonstrate the integrity of the complete installation to the approval of the Engineer and all other authorities having jurisdiction. Make all adjustments necessary and balance the completed system in accordance with the data shown. Balance the systems in accordance with NEBB or AABC standards. Acceptable tolerances shall be minus ten percent to plus five percent of all measurements. Balancing shall be done by an independent licensed (by NEBB or AABC) TAB contractor. Make the following tests and submit reports to the Architect:
   a) Airflow rate at each supply, return and exhaust outlet or inlet.
   b) Total airflow rate and total static pressure for each supply and exhaust fan. Test exhaust fans with room doors closed.
   c) Motor speed, for multiple speed fans (e.g. high, medium, low).
   d) For direct drive fans, provide speed settings and actual rpm, including ECM motor driven fans
   e) Provide fan and motor rpm for belt driven fans. Provide sheave sizes.
   f) Outside airflow rate to each HVAC unit and supply fan.
   g) Motor current (and compare with nameplate data) at all motors.
   h) Entering and leaving air dry-bulb and wet-bulb conditions at all cooling coils.
   i) Heat output capacity for unit heaters, heating devices and coils (kW or MBH).
   j) Manufacturer, model and serial number for each piece of HVAC equipment scheduled on drawings.
   k) Calibrate thermostats to be within one degree of actual temperature at thermostat.
   l) Verify that all HVAC devices operate as scheduled or indicated (i.e. ON-OFF, 2-stage, variable output (SCR heaters), etc.

21) The entire system shall be warranted for a period of one (1) year beginning with Owner's acceptance of the work. Compressors shall include a minimum of five (5) year parts only warranty from the manufacturer. All labor and materials necessary to repair or replace the system or portions thereof, during that time shall be warranted for a period of one (1) year from the repair of replacement.

22) SUBMITTALS AND SUBMITTAL PROCEDURES:
   a. Contractor shall review the submittal data and check for the purpose of compliance with safety requirements, verification of dimensions, contract documents and methods and means prior to submitting to design professional. Contractor shall indicate approval by indicating such on the submittal.
   b. Transmit each submittal electronically in PDF format.
   c. Sequentially number submittal files and transmittal form. Revise submittals with original number and a sequential alphabetic suffix. File names shall describe item included in file.
   d. Identify Project, the Contractor, Subcontractor or supplier; pertinent drawing and detail number, and specification section number, as appropriate on each copy. Each file shall include an index of items included in file.
   e. Apply the Contractor's stamp, signed or initialed certifying that review, approval, verification of Products required, field dimensions, adjacent construction Work, and coordination of information is in accordance with the requirements of the Work and Contract Documents.
   f. Submittal data for all items in project shall be submitted at one time. Submittal shall be divided into groups with file sizes not exceeding 6 MB. If there is unavailable data such as control submittal, etc., these may be submitted later if not doing so would delay project progress. Data shall include capacities, complete installation instructions, dimensional data and electrical data, BHP, motor HP, operating weights and load distribution at mounting points.
   g. Deliver submittals electronically to the Design Professional.
   h. Schedule submittals to expedite the Project, and coordinate submission of related items.
   i. For each submittal for review, allow 15 days excluding delivery time to and from the Contractor.
   j. Identify variations from Contract Documents and Product or system limitations that may be detrimental to successful performance of the completed Work.
   k. Provide space for the Contractor and the Architect/ review stamps.
   l. When revised for resubmission, identify all changes made since previous submission.
   m. Distribute copies of reviewed submittals as appropriate. Instruct parties to promptly report any inability to comply with requirements.
   n. Submittals not requested will not be recognized or processed.
   o. Provide files containing only related items (such as piping, equipment, air distribution, etc.)

23) Instruct Owner's representative in the operation of the systems, using the operation and maintenance manual as a teaching aid.

24) Provide an operation and maintenance manual. As a minimum, the manual shall contain:
   a. A complete list of all equipment and appurtenances with equipment designations (per Drawings), manufacturers, and catalog numbers.
   b. Copies of manufacturers' brochures and instructions for operation and maintenance of all mechanical equipment, including replacement parts lists.
   c. Typed system operation and maintenance instructions, including inspection, lubrication, and service instructions and schedules.
   d. List of names, addresses and phone numbers of distributors of all equipment and appurtenances.
   e. Manufacturers' warranties.

25) Grilles, Registers and Diffusers: Grilles, registers, and diffusers as indicated on the drawings have been selected from the catalog of the manufacturer noted as the basis of design. Sizes, types, and performance of the devices to be provided must be coordinated to insure conformity with design basis. Sidewall supply grilles and registers shall have vertical front blades; sidewall return grilles shall have horizontal blades. Grilles and registers with borders shall have felt or rubber gaskets cemented to the back face and holding screws not over 18 inches on centers around the perimeter. Holding screws shall be counter-sunk to fit flush with face of grille or register. Grilles passing air through partitions shall be as described for wall return grilles, one for each side of partition. Register dampers shall be of the gang-operated, opposed blade type, operated through the face of the register. Operating mechanism shall not project through the register face. Mounting frame shall be coordinated with architectural reflected ceiling plans. Construction shall be of steel or aluminum as scheduled, with frame type to match ceiling construction. Sidewall supply grilles and registers shall be double-deflection type, with vertical front vanes. Construction shall be of steel, with 3/4 inch blade spacing. Return air grilles, return air registers, exhaust grilles, exhaust registers and transfer air grilles located in ceilings shall be constructed of aluminum with "egg-crate" design, with 1/2 inch x 1/2 inch x 1/2 inch grids. Frame style shall be compatible with ceiling construction. Install wall grilles and registers with horizontal edges parallel to ceiling. Concentric diffuser assemblies at roof top units shall have paint-ready exterior finish and 1-inch lined supply and return ducts that transition to diffuser size within 24 inches vertically of the bottom of roof top unit curb.

26) Hangers and supports: Building attachments: concrete inserts or structural-steel fasteners appropriate for building materials, and beam clamps. Hanger materials: galvanized, sheet steel or round, threaded steel rod. Hangers installed in corrosive atmospheres: electrogalvanized, all-thread rod or galvanized rods with threads painted after installation. Straps and rod sizes: comply with SMACNA's "HVAC Duct Construction Standards--Metal and Flexible" for sheet steel width and thickness and for steel rod diameters. Duct attachments: sheet metal screws, blind rivets, or self-tapping metal screws; compatible with duct materials. Trapeze and riser supports galvanized steel shapes and plates: steel shapes complying with ASTM A 36/A 36M.

27) Sealant materials: joint and seam sealants, general: the term "sealant" is not limited to materials of adhesive or mastic nature but includes tapes and combinations of open-weave fabric strips and mastics. Joint and seam tape: 2 inches wide; glass-fiber fabric reinforced. Joint and seam sealant: one-part, nonsag, solvent-release-curing, polymerized butyl sealant, formulated with a minimum of 75 percent solids. Flanged joint mastics: one-part, acid-curing, silicone, elastomeric joint sealants, complying with ASTM C 920, type S, grade NS, class 25, use O.

28) The project shall be constructed in strict adherence to drawings and specifications. Constructability questions shall be addressed, in writing, to the Architect and Engineer of Record for resolution. Any deviations from these Drawings and Specifications documents without written consent from the Engineer of Record shall become the responsibility of the person or entity making the changes. That person or entity shall become solely responsible for any claims resulting from such changes.

29) Acceptable Manufacturers are:

Grilles, Registers & Diffusers: Titus, Nailor, Price, Tuttle & Bailey, Kruger, Metal Aire(Color selection submitted to Architect)

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GEORGIA REGISTERED NO. 036464 PROFESSIONAL ENGINEER KAUNAL M. PATEL

HEARING ROOM
THOMAS JACKSON
JUVENILE JUSTICE CENTER
560 OGLETHORPE STREET, MACON, GEORGIA

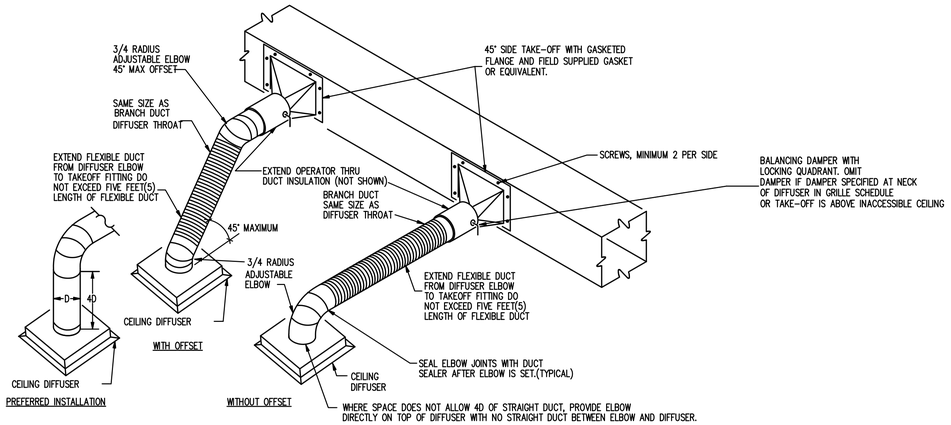
Drawing Issue Schedule	
10-16-2025	Permit Set

Project No: 2025-25

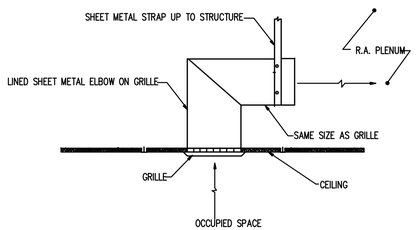
TOTAL ENGINEERS
169 New Street, Macon, GA 31201
(478)741-4632 - T.E. project # 25-084
www.totalengineers.com
GA COA NO # PEF009195 EXP: 06/30/2026

MECHANICAL SPECIFICATIONS

M0.1



1 DIFFUSER RUN OUT DETAIL
SCALE: N.T.S.



2 RETURN AIR GRILLE DETAIL
SCALE: N.T.S.

MECHANICAL SYMBOLS & ABBREVIATIONS LEGEND

	NEW PIPE, DUCTWORK OR EQUIPMENT
24x12 24x12	DUCT SIZE: FIRST DIMENSION IS SIDE DRAWN
	FLEXIBLE ROUND DUCTWORK
F SCD SD	FIRE DAMPER, SMOKE DAMPER, SMOKE DETECTOR
	CEILING SUPPLY DIFFUSER
	CEILING RETURN OR EXHAUST AIR
	S.A DUCT OUT OF TU BOX WITH DUCT LINER FOR THR FIRST FIVE FEET OF DUCT OUT OF TU BOX
	SIDEWALL REGISTER OR GRILLE
	CHANGE IN PIPE OR DUCT SIZE OR SHAPE
R	REFRIGERANT PIPING
D	CONDENSATE OR OTHER DRAIN PIPING
	ELBOW TURNED DOWN OR TURNED UP IN PIPING
T	THERMOSTAT, ARROW SHOWS CONTROL WIRING PATH
TC	TIME CLOCK
ø	DIAMETER
U.C.	UNDER-CUT DOOR 3/4", UNLESS OTHER SIZE NOTED
ZD 416	INDICATES EQUIPMENT ON PLANS; TOP ITEM SHOWS TYPE OF EQUIPMENT AND BOTTOM ITEM SHOWS SPECIFIC MARK NUMBER
4 S1 8"ø 300	ITEM IN HEXAGON SHOWS AIR DEVICE MARK NUMBER, ITEM ABOVE LINE SHOWS NECK SIZE, ITEM BELOW LINE SHOWS AIR FLOW THROUGH DEVICE, AND NUMBER IN FRONT SHOWS QUANTITY IF MORE THAN ONE
AFF	ABOVE FINISHED FLOOR
AH	AIR HANDLING UNIT
BD	BYPASS DAMPER
BTUH, MBH	BRITISH THERMAL UNITS, THOUSAND BRITISH THERMAL UNITS
CAP	CAPACITY
CFM	CUBIC FEET PER MINUTE
CLG	CEILING
CU	CONDENSING UNIT
DB, WB	DRY BULB TEMPERATURE, WET BULB TEMPERATURE
EA, EG	EXHAUST AIR, EXHAUST GRILLE
EF	EXHAUST FAN
EXT SP	EXTERNAL STATIC PRESSURE (USUALLY EXPRESSED IN INCHES OF WATER IN GAGE)
HP	HEAT PUMP UNIT
MVD, VD	MANUAL VOLUME DAMPER
OA	OUTSIDE AIR
RA, RG	RETURN AIR, RETURN GRILLE
RTU	PACKAGED ROOFTOP UNIT
SA	SUPPLY AIR
SF	SUPPLY FAN FOR SHOP VENTILATION
VAC, PH	VOLTS ALTERNATING CURRENT, NUMBER OF PHASES
W, KW	WATTS, KILOWATTS
UH	UNIT HEATER
A	AUDIBLE/VISUAL ALARM DEVICE CONNECTED TO DUCT SMOKE DETECTOR
AD AD	ACCESS DOOR
	CONTROL DAMPER-OPPOSED BLADE
	CONTROL DAMPER-PARALLEL BLADE
	BACKDRAFT DAMPER
	RADIUS ELBOW (R=1.5)
	VANED ELBOW
MOD	MANUAL VOLUME DAMPER (MVD), MOTOR OPERATED DAMPER (MOD)
X XX	X INDICATES SECTION NUMBER/XX INDICATES ON WHICH DRAWING SECTION APPEARS
	CONNECT NEW TO EXISTING

AIR DEVICE SCHEDULE

MARK	SERVICE	NECK SIZE	FACE SIZE	MATERIAL	TYPE	PATTERN	MOUNTING TYPE	LAYOUT BASIS	NOTES
S1	SUPPLY	SEE PLANS	24"x24"	STEEL	SQUARE CONC.	4-WAY	LAY-IN	TITUS TMS	1: 2: 3
R1	RETURN	SEE PLANS	24"x24"	ALUMINUM	EGGCRATE	---	LAY-IN	TITUS 50F	1: 4

1. PROVIDE WHITE ENAMEL FINISH.
2. INSULATE BACK OF DEVICE.
3. BALANCE AIRFLOW TO QUANTITY SHOWN.
4. PROVIDE FULL SIZE SHEET METAL PLENUM FOR DUCT CONNECTION.

EXISTING ELECTRIC TERMINAL BOX SCHEDULE

MARK	TOTAL WATTS	HEAT CFM	MIN INLET DUCT	MAX CFM	STAGES	VOLTAGE	REMARKS
TU2-3A	1321	120	6	350	1	208V 1PH	
TU2-3B	2500	220	8	915	2	208V 3PH	
TU2-4	1169	110	5	280	1	208V 1PH	

tbtb inc. ARCHITECTS PLANNERS
609 Cherry Street, Macon, GA 31201
478.742.1208 / www.btbbinc.com

GEORGIA REGISTERED PROFESSIONAL ENGINEER KRUNAL M. PATEL NO. 036464

HEARING ROOM
THOMAS JACKSON
JUVENILE JUSTICE CENTER
560 OGLETHORPE STREET, MACON, GEORGIA

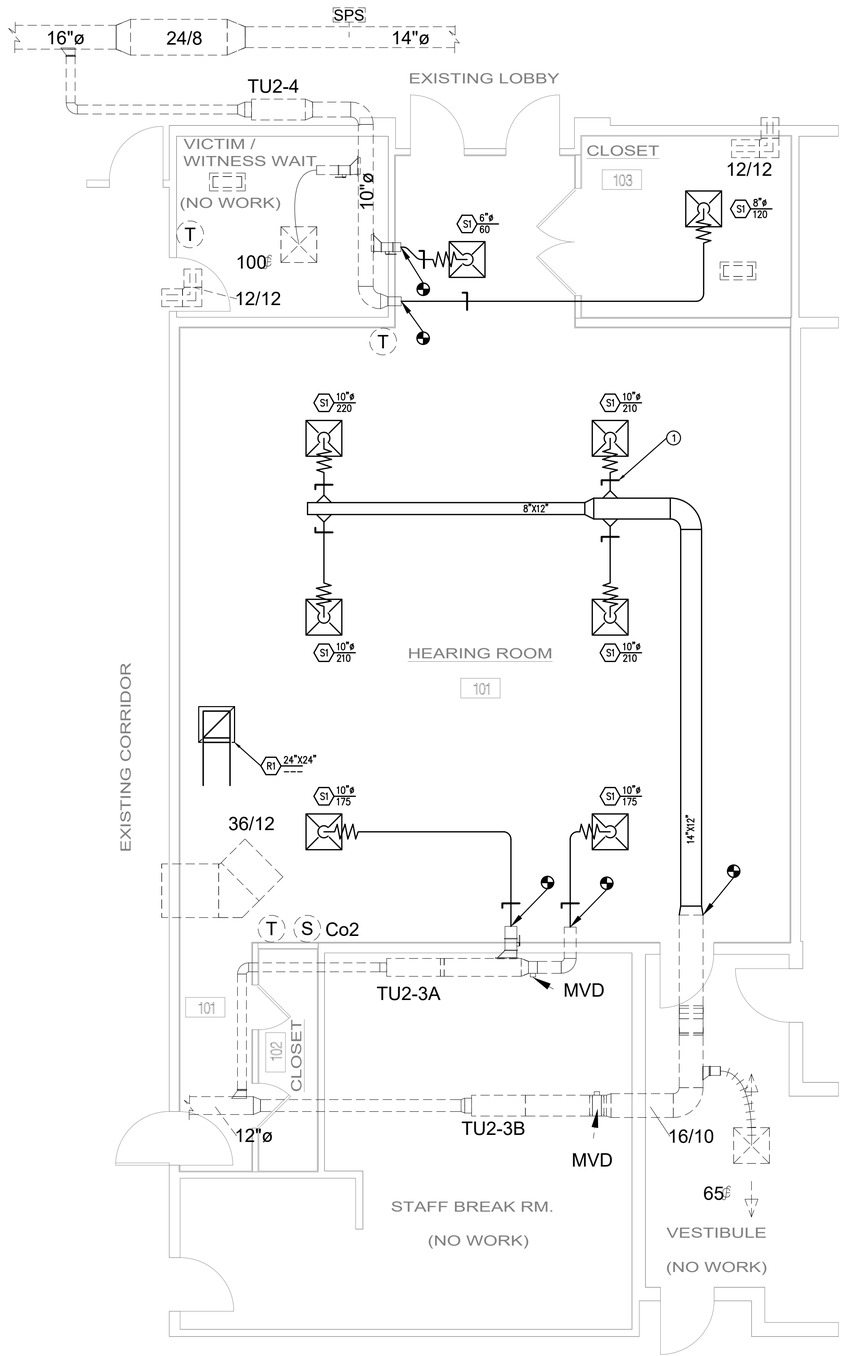
Drawing Issue Schedule	
10-16-2025	Permit Set
Project No:	2025-25

TOTAL ENGINEERS
169 New Street, Macon, GA 31201
(478)741-4632 - T.E. project # 25-084
www.totalengineers.com
GA COA NO # PEF009195 EXP: 06/30/2026

MECHANICAL SCHEDULES AND DETAILS

M0.2

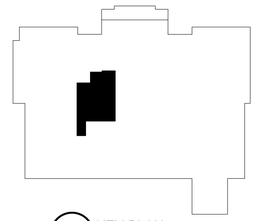
LINE LEGEND	
- - - - - - - -	EXISTING TO REMAIN
⊕ ——→	CONNECT TO EXISTING



KEY NOTES(THIS SHEET ONLY):

1 TYPICAL MANUAL VOLUME DAMPER.

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



2 KEY PLAN
SCALE: NTS

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GEORGIA REGISTERED PROFESSIONAL ENGINEER NO. 036484 KALPAL M. PATEL

HEARING ROOM
THOMAS JACKSON JUVENILE JUSTICE CENTER
560 OGLETHORPE STREET, MACON, GEORGIA

Drawing Issue Schedule	
10-16-2025	Permit Set
Project No:	2025-25

TOTAL ENGINEERS
169 New Street, Macon, GA 31201
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www.totalengineers.com
GA COA NO # PEF009195 EXP: 06/30/2026

MECHANICAL PLAN

M1.0

ELECTRICAL SPECIFICATIONS

DIVISION 26

ELECTRICAL

SECTION A: GENERAL ELECTRICAL REQUIREMENTS

1. THESE PLANS AND SPECIFICATIONS APPLY TO HEARING ROOM THOMAS JACKSON JUVENILE JUSTICE CENTER, MACON, GEORGIA. THE WORK DESCRIBED BY THESE PLANS AND SPECIFICATIONS APPLY TO THE INDICATED PROJECT AND MAY NOT BE MODIFIED OR REUSED WITHOUT WRITTEN APPROVAL OF THE ENGINEER.
2. ALL WORK SHALL BE PERFORMED BY LICENSED ELECTRICAL CONTRACTOR WITH MINIMUM OF TWO YEARS OF EXPERIENCE. LIST OF PREVIOUS JOBS AND REFERENCES SHALL BE MADE AVAILABLE UPON REQUEST. CONTRACTOR SHALL PROVIDE ADEQUATE INSURANCE FOR PERSONNEL AND SHALL REPAIR ANY DAMAGE OCCURRING AS THE RESULT OF THIS PROJECT SITE AND RELATED PROPERTY.
3. ALL WORK SHALL BE PERFORMED IN A PROFESSIONAL MANNER IN ACCORDANCE WITH THE 2023 NATIONAL ELECTRICAL CODE, LIFE SAFETY CODE NFPA 101, ADA CODE, GA ACCESSIBILITY CODE, STATE OF GEORGIA ENERGY CODE AND ALL OTHER APPLICABLE CODES AND ORDINANCES.
4. ALL PERMITS AND FEES SHALL BE OBATINED AND PAID FOR BY THE CONTRACTOR.
5. ALL EQUIPMENT, MATERIAL, AND DEVICES SHALL BE LISTED OR RECOGNIZED BY UNDERWRITER'S LABORATORY OR ELECTRICAL TESTING LABORATORY AND USED AND INSTALLED IN ACCORDANCE WITH IT'S LISTING.
6. ALL WORK PERFORMED SHALL BE WARRANTED FOR A PERIOD OF ONE YEAR FROM THE THE FINAL COMPLETION DATE EXCEPT FOR FUSES AND LAMPS IN LIGHT FIXTURES. UPON NOTIFICATION OF A PROBLEM, THE CONTRACTOR SHALL INVESTIGATE THE PROBLEM WITHIN 48 HOURS UNLESS A DIFFERENT TIME PERIOD IS AGREED TO. THE CONTRACTOR SHALL INVESTIGATE, REPAIR OR REPLACE ALL FAULTY EQUIPMENT WITHIN A REASONABLE TIME PERIOD WITHOUT CHARGE TO THE OWNER.
7. THE TERM "PROVIDE" SHALL BE UNDERSTOOD TO MEAN, OBTAIN THE ITEM DESCRIBED, INSTALL ITEM IN ACCORDANCE WITH THESE PLANS, SPECIFICATIONS, AND MANUFACTURER'S RECOMMENDATIONS.
8. ALL PENETRATIONS MADE IN FIRE RATED BUILDING PORTIONS SHALL BE SEALED WITH A LISTED RESISTANT MATERIAL SUITABLE FOR THE APPLICATION.
9. ALL INSTALLATIONS OF ELECTRICAL EQUIPMENT AND MATERIALS SHALL BE COORDINATED WITH OTHER TRADES PRIOR TO INSTALLATION.
10. PLANS ARE DIAGRAMMATIC AND SHOW THE LOCATION OF THE EQUIPMENT, RACEWAY AND FIXTURES, AND ARE NOT TO BE SCALED. ALL DIMENSIONS SHALL BE VERIFIED AT THE BUILDING SITE.
11. CONTRACTOR SHALL VERIFY AND COORDINATE ALL EQUIPMENT AND DEVICE LOCATIONS WITH OWNER'S PROJECT MANAGER PRIOR TO INSTALLATION.

12. EQUIPMENT BREAKER AND WIRING REQUIREMENTS; THE CONTRACTOR SHALL SUBMIT FOR REVIEW A TABULATED SHEET OF BREAKER AND WIRING REQUIREMENTS FOR ALL MECHANICAL EQUIPMENT REQUIRING POWER AS SPECIFIED IN DIVISION 23. REQUIREMENTS SHALL BE IDENTIFIED BY HORSEPOWER OR KW, OPERATING AMPERAGE, REQUIRED VOLTAGE AND PHASE REQUIREMENTS, AND MANUFACTURERS SUGGESTED OVERCURRENT CIRCUIT PROTECTION DEVICE SIZE AND MINIMUM CIRCUIT AMPACITY SIZE. WHERE THE ELECTRICAL REQUIREMENTS SUBMITTED FOR MECHANICAL EQUIPMENT DIFFERS FROM THE BRANCH CIRCUITRY SHOWN ON THE ELECTRICAL DRAWINGS (WHEN USING THE BASIS OF DESIGN UNIT LISTED IN THE MECHANICAL SCHEDULES/SPECIFICATIONS OR A SIMILAR UNIT OF THE SAME SIZE FROM LISTED ALTERNATE MANUFACTURERS), THE CONTRACTOR SHALL MAKE THE NECESSARY ADJUSTMENTS TO THE BRANCH CIRCUITRY PER THE CURRENT NEC AT NO ADDITIONAL COST TO THE OWNER. WHEN CHANGES ARE MADE TO POWER REQUIREMENTS FOR EQUIPMENT DUE TO OWNER. ARCHITECT/ENGINEER APPROVED VALUE ENGINEERING CHANGES TO EQUIPMENT, THE COST MUST NE INCLUDED IN THE VALUE ENGINEERING OVERALL CHANGE ORDER COST. COSTS DUE TO ADJUSTMENTS IN BRANCH CIRCUITRY TO EQUIPMENT DUE TO VALUE ENGINEERING CHANGES WILL NOT BE ALLOWED AFTER THE OVERALL VALUE ENGINEERING CHANGE ORDER HAS BEEN APPROVED. IN ALL CASES, BREAKER AND WIRING REQUIREMENTS FOR MECHANICAL EQUIPMENT MUST BE PROVIDED TO THE ENGINEER BEFORE OR AT THE SAME TIME AS THE SHOP DRAWINGS FOR THE ELECTRICAL DISTRIBUTION GEAR OR EQUIPMENT. IN NO CASE SHALL THE ELECTRICAL DISTRIBUTION GEAR OR EQUIPMENT BE ORDERED OR BRANCH CIRCUITRY ROUGHED IN PRIOR TO ENGINEER REVIEW AND COMMENT ON THIS DOCUMENT. ANY EQUIPMENT ORDERED OR BRANCH CIRCUITRY ROUGHED IN ON THE JOBSITE WITHOUT THIS REVIEW AND COMMENT WILL BE TOTALLY AT THE CONTRACTORS RISK.

SECTION B: BASIC MATERIALS

1. ALL CONDUCTORS USED FOR 600 VOLTS OR LESS SHALL BE HIGH GRADE COPPER CONDUCTORS WITH 75 DEGREE C, THHN OR THWN THERMOPLASTIC INSULATION. ALL CONDUCTORS SHALL BE MADE IN THE USA. ALL CONDUCTORS ROUTED IN UNDERGROUND CONDUIT SHALL BE RATED FOR WET LOCATIONS.
2. ALL INTERIOR 120/277 VOLT, 20 AMP POWER AND LIGHTING WIRING SHALL BE INSTALLED IN ELECTRICAL METALLIC TUBING OR "MC" CABLE (IF NOT EXPOSED) FOR ALL INTERIOR CIRCUITS UNLESS OTHERWISE NOTED. IF "MC" CABLE IS USED, HOMERUNS SHALL BE IN 3/4 IN. EMT. POWER CIRCUITS FOR HVAC EQUIPMENT SHALL BE IN 3/4" ELECTRICAL METALIC CONDUIT MINIMUM. ALL CONDUIT SHALL BE SUPPORTED FROM BUILDING STRUCTURE. IT SHALL NOT BE SUPPORTED FROM DUCTWORK, PIPING, CEILING GRID OR CEILING GRID SUPPORTS, OR ANY OTHER NON-STRUCTURAL ITEM. CONDUIT SHALL BE SUPPORTED IN ACCORDANCE WITH THE NEC. CONDUIT IN EXPOSED STRUCTURE AREAS SHALL BE EMT. GALVANIZED RIGID STEEL CONDUIT SHALL BE USED IN AREAS WHERE IT WILL BE EXPOSED TO PHYSICAL DAMAGE.
3. CONDUIT UNDERGROUND SHALL BE SCHEDULE 40 PVC. IF MORE THAN ONE CONDUIT IS PROVIDED IN A SINGLE TRENCH, THE CONDUIT SHALL BE RACKED WITH SPACERS EVERY FOUR FEET TO MAINTAIN A MINIMUM SPACING BETWEEN CONDUIT OF TWO INCHES. BACKFILL USED FOR UNDERGROUND INSTALLATIONS SHALL BE FREE OF FOREIGN MATTER. WHERE EXPOSED TO WEATHER, CONDUIT SHALL BE GALVANIZED RIGID STEEL OR INTERMEDIATE METALLIC CONDUIT. THE CONDUIT SHALL BE TERMINATED WITH LISTED FITTINGS AND ALL CONDUIT ENDS SHALL BE REAMED AND SMOOTH. ALL CONDUIT ENDS IN BOXES SHALL BE PROVIDED WITH INSULATED BUSHINGS.
4. A #12 INSULATED COPPER GROUND CONDUCTOR SHALL BE INCLUDED IN ALL BRANCH CIRCUITS RATED 20 AMPERES. ALL OTHER CIRCUITS AND FEEDERS WILL BE PROVIDED WITH AN INSULATED COPPER CONDUCTOR SIZED AS NOTED OR IN ACCORDANCE WITH THE NEC, WHICHEVER IS GREATER.
5. THE MINIMUM SIZE OF ALL CONDUCTORS NOT OTHERWISE INDICATED IS #12 AND THE MINIMUM SIZE OF ALL CONDUIT UNLESS OTHERWISE INDICATED IS 1/2 IN.
6. ALL JUNCTION BOXES SHALL BE PROVIDED WITH COVERS AND ALL UNUSED OPENINGS SHALL BE PLUGGED. ALL JUNCTION BOXES SHALL BE INDEPENDENTLY SUPPORTED FROM STRUCTURE. COVERS OF BOXES SHALL BE LABELED WITH THE CIRCUIT NUMBER WITH A BLACK PERMANENT MARKER IN 3/4 IN. HIGH LETTERS (LEGIBLE HANDWRITTEN LETTERING IS ACCEPTABLE).
7. ALL OUTLET BOXES SHALL BE SQUARE METAL BOXES. PROVIDE PLASTER RINGS FOR ALL OUTLET BOXES CONTAINING DEVICES TO PROVIDE A FIRM MOUNTING SUPPORT FOR THE DEVICE.
8. ALL CONVENIENCE RECEPTACLES SHALL BE SPECIFICATION GRADE 20 AMP RECEPTACLES, OWNER TO SELECT COLOR. TAMPER RESISTANT (TYPE "TR").
9. ALL LIGHT SWITCHES SHALL BE SPECIFICATION GRADE 20 AMP TOGGLE SWITCHES FULL LOAD RATED FOR TUNGSTEN-HALOGEN LAMPS, OWNER TO SELECT COLOR.
10. PROVIDE FACEPLATES FOR ALL RECEPTACLES AND SWITCHES. COORDINATE STYLE AND COLOR WITH OWNER'S PROJECT MANAGER.
11. PROVIDE BETWEEN 12 AND 24 INCHES OF LIQUID TIGHT FLEXIBLE CONDUIT BETWEEN RIGID CONDUIT AND ANY EQUIPMENT CONTAINING MOTORS. THE FLEXIBLE CONDUIT SHALL BE SUPPORTED TO PREVENT THE CONDUIT FROM RESTING ON THE GROUND OR CONCRETE PAD.
12. PROVIDE WEATHERPROOF RECEPTACLE WITHIN 25 FEET OF EACH PIECE OF EXTERIOR EQUIPMENT. THIS RECEPTACLE SHALL BE MOUNTED HORIZONTALLY WITH METAL HINGED "IN USE" COVER MOUNTED TO OPEN UP. THIS OUTLET SHALL BE A GFCI RECEPTACLE. THIS RECEPTACLE SHALL BE BE MOUNTED IN DIE CAST NON CORRODING METAL BOX.
13. WHEN OUTLETS OR BOXES ARE INDICATED INSTALLED ON OPPOSITE SIDES OF THE SAME WALL. THE CONTRACTOR SHALL ADJUST THE LOCATION TO OFFSET THE OUTLETS WITH A WALL STUD PROVIDING SEPERATION.

SECTION C: DISTRIBUTION EQUIPMENT

1. CONTRACTOR SHALL PROVIDE CONDUCTORS AND CONDUIT FOR ALL FEEDERS IN ACCORDANCE WITH THE PLANS.
2. SEPERATELY MOUNTED CIRCUIT BREAKERS SHALL BE MOUNTED IN NEMA TYPE I ENCLOSURES IN INDOOR APPLICATIONS AND IN NEMA 3R ENCLOSURES IN EXTERIOR OR WET LOCATIONS. ALL CIRCUIT BREAKER ENCLOSURES SHALL BE PROVIDED WITH HINGED COVERS AND PROVISIONS FOR PADLOCKING THE COVERS.
3. ALL EQUIPMENT CONTAINING MOTORS SHALL BE PROVIDED WITH A DISCONNECTING MEANS WITHIN TEN FEET OF THE UNIT UNLESS OTHERWISE NOTED. THIS DISCONNECTING MEANS SHALL AS A MINIMUM BE A NON-FUSED SWITCH OR TOGGLE STARTER SIZED TO MATCH THE EQUIPMENT. PROVIDE OTHER DEVICES AS NOTED ON THE PLANS. PROVIDE NEMA TYPE I ENCLOSURES INDOORS AND NEMA 3R OUTDOORS.
4. PROVIDE GFCI CIRCUIT BREAKERS AND RECEPTACLES AS INDICATED ON THE PLANS AND IN THESE SPECIFICATIONS. THESE DEVICES SHALL BE CLASS A GFCI DEVICES.
5. PROVIDE PANELS AS SCHEDULED ON PLANS. CIRCUIT BREAKERS SHALL BE THERMAL-MAGNETIC BREAKERS WITH A MINIMUM INTERRUPTING RATING OF 10,000 AIC FOR 120/208V AND 14,000 AIC FOR 277/480V OR AS INDICATED ON THE PLANS. BREAKERS SHALL HAVE 65/75 DEGREE C RATED TERMINATIONS. PANEL NOTED SHALL BE SERVICE ENTRANCE RATED. MOUNT PANELS WITH TOP OF PANEL 6 FT. ABOVE FLOOR, PROVIDE 3/4 IN., GREY PAINTED PLYWOOD BACKBOARD FOR ALL PANELS SECURED TO WALL WITH 1/4 IN. TOGGLE BOLTS. PANEL MANUFACTURERS: SQUARE D, GENERAL ELECTRIC (GE), SEIMENS, AND EATON. ALL CURRENT CARRYING PARTS SHALL BE COPPER.
6. SYSTEM COORDINATION: THE MANUFACTURER OF THE PANELBOARDS SHALL PROVIDE SERIES RATED EQUIPMENT BASED ON U.L. LISTED TEST RESULTS. THE CONTRACTOR SHALL VERIFY THE AVAILABLE SHORT CIRCUIT CURRENT AT THE SERVING TRANSFORMER.
7. PROVIDE EACH PANELBOARD WITH A TYPEWRITTEN CIRCUIT BREAKER DIRECTORY CARD INSIDE A PLASTIC COVERING (EVERY CIRCUIT AND CIRCUIT MODIFICATION SHALL BE LEGIBLY IDENTIFIED AS TO ITS CLEAR, EVIDENT, AND SPECIFIC PURPOSE OR USE. THE INDETIFICATION SHALL INCLUDE SUFFICIENT DETAIL TO ALLOW EACH CIRCUIT TO BE DISTINGUISHED FROM ALL OTHERS). THE DIRECTORY AND COVERING SHALL BE LOCATED INSIDE A STEEL FRAME PROVIDED INSIDE THE DOOR OF EACH PANELBOARD. THE DIRECTORY SHALL BE TYPED TO IDENTIFY THE LOAD FED BY EACH CIRCUIT BREAKER AND THE AREAS SERVED.
8. PROVIDE NAMEPLATES FOR ALL PANELBOARDS, DISCONNECT SWITCHES, ENCLOSED CIRCUIT BRAKERS, COMBINATION STARTERS, CONTACTORS, AND ALL OTHER ELECTRICAL DISTRIBUTION EQUIPMENT PANELS. MOUNT NAMEPLATES ON EXTERIOR OF THE DOOR OF ALL SURFACE MOUNTED PANELS AND EQUIPMENT. NAME PLATES SHALL BE LAMINATED PLASTIC PLATES WITH 3/16 IN. HIGH WHITE LETTERS ETCHED ON BLACK BACKGROUND. NAME PLATES SHALL BE INSTALLED PARALLEL TO EQUIPMENT LINES. THE NAME OR USEAGE OF EACH DEVICE OR BRANCH CIRCUIT SHALL BE ETCHED IN THE NAMEPLATE. CONTRACTOR TO COORDINATE EXACT EQUIPMENT IDENTIFICATION WITH THE OWNER. SECURE NAMEPLATES VIA EPOXY GLUE.

SECTION D: LIGHTING

1. TYPES AND SPECIFIC REQUIREMENTS ARE PROVIDED ON THE LIGHTING FIXTURE SCHEDULE ON THE PLANS. ALL LIGHT FIXTURES SHALL BE PROVIDED WITH LAMPS, DRIVERS, BALLASTS, AND FULLY FUNCTIONING AT COMPLETION OF PROJECT.
2. ALL LED FIXTURES SHALL BE U.L. LISTED AND HAVE A MINIMUM OF 5 YEAR ON-SITE REPLACEMENT WARRANTY FOR DEFECTIVE OR NON-STARTING LED SOURCE ASSEMBLIES, DRIVERS, AND FOR LUMINAIRES EXHIBITING INADEQUATE LUMEN OUTPUT. IT SHALL COVER MATERIAL, FIXTURE FINISH, WORKMANSHIP, AND SHIPPING. ON-SITE REPLACEMENT SHALL INCLUDE TRANSPORTATION, REMOVAL, AND INSTALLATION OF NEW FIXTURE.
3. RATED LUMINAIRE WATTAGE SHALL BE ACTUAL, ACCOUNTING FOR ANY REDUCTION IN EFFICIENCY DUE TO SUB-OPTIMAL LOADING OF DRIVERS.
4. DRIVERS SHALL BE CAPABLE OF ACCEPTING THE VOLTAGE INDICATED ON THE LIGHTING FIXTURE SCHEDULE AND CAPABLE OF DIMMING IF REQUIRED. DRIVERS SHALL HAVE A CLASS A RATING, TOTAL HARMONIC DISTORTION OF LESS THAN 20%, AND SHALL NOT CONTAIN ANY POLYCHLORINATED BIPHENYL (PCB).
5. ALL LED FIXTURES SHALL BE TESTED TO IES LM-79 AND IES LM-80 STANDARDS. OUTDOOR FIXTURES SHALL BE IP65 RATED. LED'S, DRIVERS AND ALL COMPONENTS SHALL HAVE A SYSTEM LIFETIME OF 50,000 HOURS OR MORE AT 25 DEGREES CELSIUS AND SHALL MAINTAIN A MINIMUM OF 85% OF INITIAL LUMEN OUTPUT AFTER 55,000 HOURS OF OPERATION. LED'S SHALL HAVE COLOR RENDERING INDEX (CRI) OF 80 OR GREATER.
6. ALL SURFACE MOUNTED FIXTURES SHALL BE INDEPENDENTLY SUPPORTED FROM STRUCTURE. ALL CEILING MOUNTED FIXTURES SHALL BE SUPPORTED FROM STRUCTURE AND BRACED TO PREVENT MOVEMENT IF IMPACTED.
7. ALL RECESSED FIXTURES IN LAY IN TYPE CEILINGS SHALL BE PROVIDED WITH GRID CLIPS TO FASTEN FIRMLY TO CEILING SUPPORT GRID. THE CEILING GRID SHALL BE SUPPORTED AT EACH CORNER OF A FIXTURE.
8. CONNECTION TO ALL FIXTURES IN LAYIN CEILING SHALL BE BY FLEXIBLE CONDUIT OF FOUR TO SIX FEET IN LENGTH. A GROUND CONDUCTOR WILL BE INCLUDED WITH THIS CONNECTION.
9. ALL LENSES ON FIXTURES SHALL BE 0.125 INCH THICK MINIMUM. ALL HOUSINGS SHALL BE 22 GAUGE STEEL MIN. AND HAVE A POST FABRICATION HIGH REFLECTIVE WHITE FINISH.

SECTION E: FIRE ALARM SYSTEM (EXTENSION OF EXISTING SYSTEM. EDWARDS EST SYSTEM. FIELD VERIFY MANUFACTURER AND TYPE.)

1. MATCH EXISTING MANUFACTURER (EDWARDS EST SERIES) FOR ALL NEW DEVICES.
2. PROVIDE THE EXTENSION OF AN EXISTING COMPLETE OPERABLE FIRE ALARM SYSTEM VOICE EVACUATION SYSTEM FOR THIS PROJECT. VERIFY THE EXACT LOCATION OF THE MAIN PANEL. THE FIRE ALARM SYSTEM SHALL BE DESIGNED FOR CLASS B OPERATION. THE WIRING FOR THE FIRE ALARM SYSTEM SHALL BE INSTALLED IN 1/2 IN. ELECTRICAL METALLIC TUBING. PROVIDE INSULATED FITTINGS ON ALL CONDUIT ENDS. THE FIRE ALARM SHALL BE MADE IN THE USA AND BE UL LISTED. ALL WIRING AND DEVICES FOR THE SYSTEM SHALL BE SUPERVISED. COLOR CODE THE CONDUIT EVERY 24 IN. WITH RED MARKINGS (EXCEPT WHERE EXPOSED).
3. NEW DEVICES SHALL BE PROVIDED WITH RECESSED METAL BOXES. ALL DEVICES SHALL BE MOUNTED FLUSH WITH WALL EXCEPT FOR PULL STATIONS WHICH SHALL BE SEMI-FLUSH.
4. NEW SPEAKER/STROBE DEVICES SHALL MEET THE REQUIREMENTS OF THE AMERICANS WITH DISABILITIES ACT. THE SPEAKER SHALL PRODUCE A SOUND LEVEL OF 90 DECIBELS AND THE STROBE SHALL PRODUCE A FLASHING PULSE OF LIGHT OF 75 CANDELA.
5. STROBE DEVICES SHALL PRODUCE A FLASHING PULSE OF LIGHT OF 75 CANDELLA.
6. THE SMOKE DETECTORS SHALL BE THE PHOTOELECTRIC TYPE POWERED FROM THE MAIN FIRE ALARM PANEL.
7. THE GENERAL BUILDING ALARM WILL SOUND WHEN ACTIVATED AT THE CONTROL PANEL, BY SMOKE OR HEAT DETECTORS, OR BY A PULL STATION. ALARM WILL ALSO SOUND WHEN ACTIVATED BY A DUCT SMOKE DETECTOR OR SPRINKLER.
8. SEE FIRE ALARM SUBCONTRACTOR SUBMITTAL TO AUTHORITY HAVING JURISDICTION FOR ADDITIONAL REQUIREMENTS. FIRE ALARM SUBCONTRACTOR IS RESPONSIBLE FOR ALL ADDITIONAL DEVICES AND EQUIPMENT AS REQUIRED TO MEET ALL NFPA, IBC, GEORGIA STATE, AND LOCAL CODES.

SECTION F: TELEPHONE/DATA SYSTEMS RACEWAY

WORK INCLUDED:

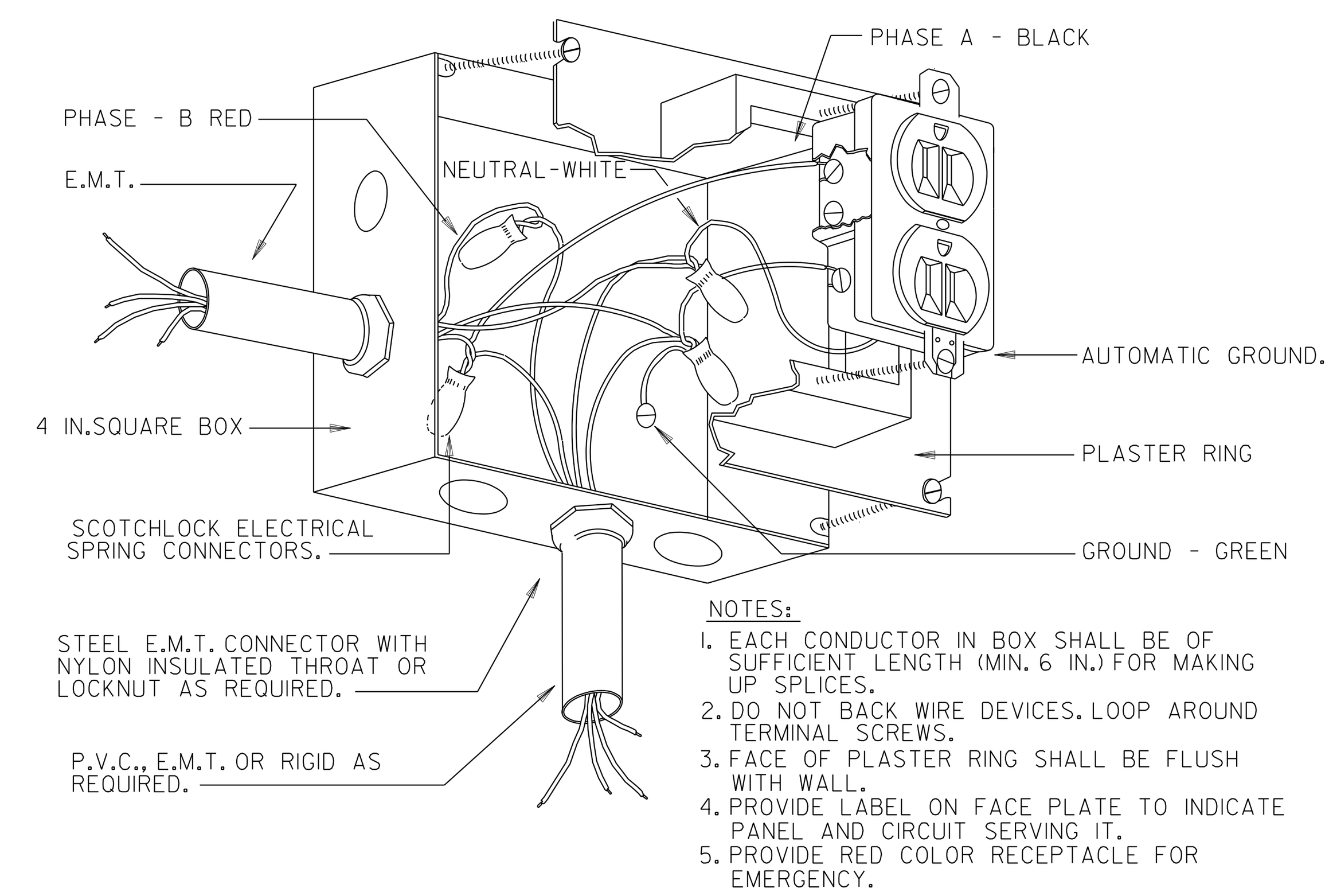
1. FOR OUTLETS IN AREA OF LAYIN CEILING, PROVIDE 1 IN. EMT FROM EACH OUTLET TO 12 INCHES ABOVE ACCESSIBLE CEILING. PROVIDE 4 IN. SQUARE BACKBOX WITH SINGLE GANG PLASTER RING FOR EACH TELE/DATE OUTLET. ALL CONDUIT SHALL BE CONCEALED. PROVIDE FACEPLATE WITH MODULAR JACKS. PROVIDE PULL STRING IN ALL EMPTY CONDUITS.
2. FOR OUTLETS IN AREAS OF EXPOSED STRUCTURE, PROVIDE 1 IN. EMT FROM EACH OUTLET TO ABOVE TELECOM BACKBOARD OR TO ABOVE NEAREST ACCESSIBLE CEILING. PROVIDE 4 IN. SQUARE BACKBOX WITH SINGLE GANG PLASTER RING FOR EACH TELE/DATA OUTLET. ALL CONDUIT SHALL BE CONCEALED IN WALL WHERE POSSIBLE, WHERE EXPOSED, CONDUIT IS TO BE RIGID GALVANIZED STEEL TYPE (RGS). PROVIDE FACEPLATE WITH MODULAR JACKS. PROVIDE PULL STRING IN ALL EMPTY CONDUITS.

PROVIDE $9,500 ALLOWANCE INCLUDED IN BID PRICE FOR SECURITY SYSTEM TO BE PROVIDED BY CANA COMMUNICATIONS. ALLOWANCE TO INCLUDE, BUT NOT LIMITED TO, CCTV SECURITY CAMERAS AND ACCESS CONTROL SYSTEMS AND THEIR ASSOCIATED CABLING. ANY 120V POWER AS WELL AS REQUIRED RACEWAY AND BOXES TO BE INCLUDED IN THIS CONTRACT AS SHOWN AND ARE NOT IN THE ALLOWANCE.

LIGHTING FIXTURE SCHEDULE

TYPE	DESCRIPTION	MANUFACTURER
A	SPECIFICATION GRADE DOWNLIGHT, RECESSED SELF FLANGED, 8 IN. ROUND APERTURE CLEAR SPECULAR LOW IRIDESCENT REFLECTOR; MEDIUM DISTRIBUTION; ACCESS FROM BELOW OR ABOVE CEILING; STANDARD 0-10 DIMMING. PROVIDE 10 WATT BATTERY BACKUP WHERE SHOWN ON PLANS. LAMPS: LED, 3000 LUMENS, 47 WATTS, 3500 DEGREE K DRIVER: UNV. VOLT	PORTFOLIO "LD8C" SER., PRESCOLITE "LTR-8RD" SER., GOTHAM "EVO8" SER., LIGHTOLIER "7R-C6RDL" SER.
B	2 FT. X 4 FT. RECESSED BACK LIT FLAT PANEL WITH SWITCHABLE LUMEN AND COLOR TEMPERATURE; ALUMINUM FRAME CONSTRUCTION; MICRO PRISM LENS FOR FULLY LUMINOUS APPEARANCE. PROVIDE 10 WATT BATTERY BACKUP WHERE SHOWN ON PLANS . LAMPS: LED, 4000 LUMENS, 37 WATTS, 3500 DEGREE K DRIVER: UNV. VOLT	METALUX "CGTS" SER., LITHONIA "CPX" SER., COLUMBIA "CBT" SER., DAYBRITE "2SBP" SER.
C	COMMERCIAL GRADE DOWNLIGHT, RECESSED SELF FLANGED, 6 IN. ROUND APERTURE, SPECULAR REFLECTOR FINISH; MEDIUM DISTRIBUTION ; ACCESS FROM BELOW OR ABOVE CEILING; STANDARD 0-10 DIMMING. LAMPS: LED, 1000 LUMENS, 11 WATTS, 3500 DEGREE K DRIVER: UNV. VOLT	HALO COMMERCIAL "HC6" SER., LITHONIA "LDN6" SER., PRESCOLITE "LFR-6RD" SER., LIGHTOLIER "6N-C6L" SER.
(exit symbol)	LED SURFACE MOUNT EDGE-LIT EXIT, RED/GREEN LETTERING, CLEAR ACRYLIC PANELS, UNIVERSAL MOUNTING STANDARD. SINGLE OR DOUBLE FACE AS SHOWN. (PROVIDE 90 MIN. BACK-UP BATTERY). LAMPS: LED, 3 WATTS BALLAST: UNV. VOLT	LITHONIA "EDG" SER., COMPASS "CEL-S" SER., SURE-LITES "EUX" SER., ELITE LIGHTING "ELX-LED-619" SER.

NOTES:
1. CONTRACTOR TO VERIFY ALL VOLTAGES, GRID AND CEILING TYPES WITH THE ARCHITECT AND COORDINATE FIXTURE DIMENSION SIZE TO ENSURE A PROPER FIT IN ALL CEILING TYPES PRIOR TO ORDERING.
2. ALL LUMENS LISTED ARE DELIVERED LUMENS. ALL EQUALS TO SPECIFIED FIXTURES SHALL NOT BE ANY LOWER THAN 5% OF SPECIFIED LUMENS. WATTAGE SHALL NOT BE HIGHER THAN 15% OF SPECIFIED WATTAGE.
3. LISTING OF MANUFACTURERS DOES NOT EQUAL AUTOMATIC APPROVAL. ALL CHARACTERISTICS NOTED IN DESCRIPTION SECTION MUST BE MET IN ORDER TO BE APPROVED. WHERE VENDOR/REP. DOES NOT HAVE ONE MANUFACTURER LISTED, PRIOR APPROVAL IS REQUIRED TO BE SUBMITTED TO ENGINEER TEN (10) DAYS PRIOR TO BID.



NOTES:
1. EACH CONDUCTOR IN BOX SHALL BE OF SUFFICIENT LENGTH (MIN. 6 IN.) FOR MAKING UP SPLICES.
2. DO NOT BACK WIRE DEVICES. LOOP AROUND TERMINAL SCREWS.
3. FACE OF PLASTER RING SHALL BE FLUSH WITH WALL.
4. PROVIDE LABEL ON FACE PLATE TO INDICATE PANEL AND CIRCUIT SERVING IT.
5. PROVIDE RED COLOR RECEPTACLE FOR EMERGENCY.

1 / E0.1 RECEPTACLE CONNECTION DETAIL

NOT TO SCALE

SECTION E(1): FIRE ALARM SUBCONTRACTOR SUBMITTAL REQUIREMENTS TO AUTHORITY HAVING JURISDICTION:

IN ACCORDANCE WITH CHAP 7, NFPA 72 THE FOLLOWING LIST REPRESENTS THE MINIMUM DOCUMENTATION REQUIRED BY THE AUTHORITY HAVING JURISDICTION FOR ALL FIRE ALARM SYSTEMS:

1. THE PRINTED NAME, SIGNATURE AND COPY OF CURRENT GEORGIA LICENSE OF THE LOW VOLTAGE CONTRACTOR WHO IS SUBMITTING THE FIRE ALARM PLANS FOR REVIEW AND WHO WILL BE RESPONSIBLE FOR INSTALLATION.
2. WRITTEN NARRATIVE PROVIDING INTENT AND SYSTEM DESCRIPTION.
3. A FIRE ALARM RISER DIAGRAM.
4. A FLOOR PLAN LAYOUT WITH ROOM NAMES, DOOR LOCATIONS, FIXTURES (DRAWN TO SCALE) SHOWING LOCATION OF ALL DEVICES AND CONTROL EQUIPMENT. DEVICES AND EQUIPMENT SHOWN ON DRAWINGS IS THE MINIMUM REQUIRED. PROVIDE ALL ADDITIONAL DEVICES AND EQUIPMENT AS REQUIRED TO MEET ALL NFPA, IBC, GEORGIA STATE AND LOCAL CODES.
5. THE FIRE ALARM SYSTEM WIRING LAYOUT DESIGN WHICH INCLUDES THE GAUGE(S) OF WIRING INSTALLED.
6. THE SEQUENCE OF OPERATION IN EITHER INPUT/OUTPUT MATRIX OR NARRATIVE FORM.
7. EQUIPMENT TECHNICAL DATA SHEETS FOR ALL COMPONENTS SPECIFIED IN THE FIRE ALARM SYSTEM DESIGN.
8. MANUFACTURERS PUBLISHED INSTRUCTIONS, INCLUDING OPERATION AND MAINTENANCE INSTRUCTIONS.
9. BATTERY CALCULATIONS.
10. A SET OF NAC VOLTAGE DROP/LOAD CALCULATIONS.
11. SPEAKER WATTAGES AND DECIBEL RATINGS FOR BOTH HORN ALARM AND VOICE EVACUATION SYSTEM COMPONENTS.
12. THE CANDELA RATING SHOWN FOR DRAWINGS FOR EACH STROBE/VISUAL DEVICE AND EACH ILLUMINATED EMERGENCY EXIT SIGN FIRE ALARM SYSTEM MUST COMPLY WITH THE GEORGIA ACCESSIBILITY CODE (120-3-20), LIFE SAFETY CODE (NFPA 101) AND THE NATIONAL FIRE ALARM CODE (NFPA 72).

PROVIDE $43,000 ALLOWANCE INCLUDED IN BID PRICE FOR A/V SYSTEM TO BE PROVIDED BY KEN'S AUDIO VIDEO INC. ALLOWANCE TO INCLUDE, BUT NOT LIMITED TO, CAT6 CABLING, HDMI CORDS, MONITORS, LAPTOPS, ZOOM CAMERAS, HD DISPLAYS, VIDEO MATRIX, DESK TOP MICS, CEILING SPEAKERS, MIXERS, RACKS, AND 2 YEAR WARRANTY. ANY 120V POWER AS WELL AS REQUIRED RACEWAY AND BOXES TO BE INCLUDED IN THIS CONTRACT AS SHOWN AND ARE NOT IN THE ALLOWANCE.

ELECTRICAL LEGEND

SYMBOL	DESCRIPTION
LIGHTING AND POWER	
	CONDUIT RUN CONCEALED ABOVE CEILING OR IN WALL, HASH MARKS INDICATE NUMBER OF CONDUCTORS. (3 WIRE UNLESS SHOWN)
	CONDUIT RUN CONCEALED BELOW FLOOR SLAB, OR UNDERGROUND.
A-2,4	HOMERUN TO PANELBOARD, LETTER OR LETTERS INDICATE PANELBOARD. NUMBERS INDICATES CIRCUIT NUMBERS.
	LIGHT FIXTURE, SEE SCHEDULE FOR MOUNTING AND TYPE.
	LIGHT FIXTURE, SEE SCHEDULE FOR MOUNTING AND TYPE. PROVIDE WITH 1100 LUMEN, 90 MINUTE BATTERY PACK.
	DUPLEX CONVENIENCE OUTLET, 18 IN. ABOVE FLOOR UNLESS OTHERWISE NOTED.
	FLUSH FLOOR BOX WITH DUPLEX CONVENIENCE OUTLET. PROVIDE WALKER 880 OMNIBOX SERIES IRON OR PLASTIC FLOOR BOX WITH BRASS FLANGE AND COVERPLATE.
$	SINGLE POLE TOGGLE SWITCH, 42 IN. ABOVE FLOOR.
	PANELBOARD, SEE SCHEDULE.
	DISCONNECT SWITCH.
M	MOTOR.
TELEPHONE/DATA SYSTEMS (RACEWAY, BOXES, & PULL STRING ONLY)	
	COMPUTER OUTLET, FLUSH WALL MOUNTED AT 18 IN. TO CENTER LINE OF OUTLET.
AP	WIRELESS ACCESS POINT.
LIGHTING CONTROL SENSORS	
3	COMBINATION 360 DEGREE, ULTRASONIC AND PASSIVE INFRARED SENSOR (WATT STOPPER "DT-300", GREENGATE, NOVITAS, HUBBELL, LEVITON, SENSOR SWITCH).
$o	WALL MOUNTED SENSOR SWITCH, 42 IN. MOUNTING HEIGHT (WATTSTOPPER DSW-301, GREENGATE, NOVITAS, HUBBELL, LEVITON, SENSOR SWITCH).
FIRE ALARM SYSTEM (EXISTING VOICE EVAC SYSTEM)	
FACP	EXISTING FIRE ALARM CONTROL PANEL, SURFACE MOUNTED.
EVAC	EXISTING FIRE ALARM VOICE EVAC PANEL, SURFACE MOUNTED.
	SPEAKER AND FLASHING LIGHT. 80 IN. ABOVE FLOOR TO THE BOTTOM OF THE LENS.
	STROBE LIGHT, 80 IN. ABOVE FLOOR TO THE BOTTOM OF THE LENS.
2 P	SMOKE DETECTOR, PHOTOELECTRIC TYPE.
SOUND SYSTEM (RACEWAY, BOXES, & PULL STRING ONLY)	
S	SPEAKER, CEILING FLUSH MOUNTED. PROVIDE OUTLET BOX AND 3/4 IN. C. TO SOUND EQUIPMENT.
SECURITY SYSTEM (RACEWAY, BOXES, & PULL STRING ONLY)	
	WALL MOUNTED CCTV SECURITY CAMERA. PROVIDE JUNCTION BOX AND 1 IN. C. WITH PULL STRING TO SECURITY EQUIPMENT LOCATION. COORDINATE MOUNTING HEIGHT WITH ARCHITECTURAL. (RACEWAY, BOXES, & PULL STRING ONLY)
C	ACCESS CONTROL PROXIMITY READER, PROVIDE JUNCTION BOX AND RACEWAY WITH PULL STRING TO SECURITY EQUIPMENT LOCATION. COORDINATE WITH SECURITY CONTRACTOR PRIOR TO ROUGH-IN. COORDINATE MOUNTING HEIGHT WITH OWNER PRIOR TO ROUGH-IN.
DC	DOOR CONTACT POSITION SENSOR LOCATION. PROVIDE SINGLE GANG BOX AT DOOR FRAME ON SECURE SIDE OF DOOR. COORDINATE EXACT LOCATION WITH SECURITY CONTRACTOR. PROVIDE 3/4 IN. C. WITH PULL STRING TO STUB-OUT ABOVE CEILING.

NOTES:
1. ALL MOUNTING HEIGHTS ARE FROM FINISHED FLOOR TO CENTERLINE OF OUTLET OR DEVICE.
2. ALL RECEPTACLES SHALL BE TAMPER RESISTANT (TYPE "TR").

GENERAL NOTES:

A. ALL FLUSH RECESSED OUTLET BOXES SHALL BE INSTALLED SUCH THAT FRONT EDGE OF THE BOX WILL NOT BE SET BACK OF THE FINISHED SURFACE MORE THAN 1/4IN. IN ORDER TO COMPLY WITH N.E.C. 314-20. SUPPORT OF OUTLET BOX BY RECEPTACLE AND COVERPLATE IS NOT ACCEPTABLE. CAREFULLY COORDINATE ROUGH-IN WITH BLOCK MASONS AND GROUT-IN CELL CONTAINING OUTLET BOX.

B. DO NOT SCALE DRAWINGS TO LOCATE EQUIPMENT OR OUTLETS. MOUNTING HEIGHTS AS INDICATED ON THE DRAWINGS SHALL BE FROM THE FINISHED FLOOR TO THE CENTER LINE OF THE OUTLET BOX.

C. THE ELECTRICAL DRAWINGS ARE ONLY A PART OF THE CONTRACT DOCUMENTS. ALL OF THE DRAWINGS AND SPECIFICATIONS MUST BE REVIEWED FOR THEIR INTERRELATIONSHIP AND REQUIRED COORDINATION BETWEEN DISCIPLINES.

D. ALL RECEPTACLES SHALL BE TAMPER RESISTANT (TYPE "TR").

LIGHT FIXTURE DESIGNATION DESCRIPTION

EXAMPLE: B/HA1-1/b

PANEL DESIGNATION:
CIRCUIT NUMBER
FIXTURE TYPE: TYPE "A" IF NO CAPITAL LETTER SHOWN
SWITCH LEG DESIGNATION WHEN MULTIPLE SWITCHES ARE IN SAME SPACE/AREA

B/ HA1-1/b

PROVIDE ALL BRANCH CIRCUIT CONDUIT/CONDUCTORS AS NECESSARY TO CONNECT ALL DEVICES SHOWN ON THE CIRCUIT. PROVIDE DEDICATED NEUTRALS FOR ALL CIRCUITS. (STRIPED NEUTRAL WITH PHASE COLOR STRIPING)

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560 OGLETHORPE STREET, MACON, GEORGIA

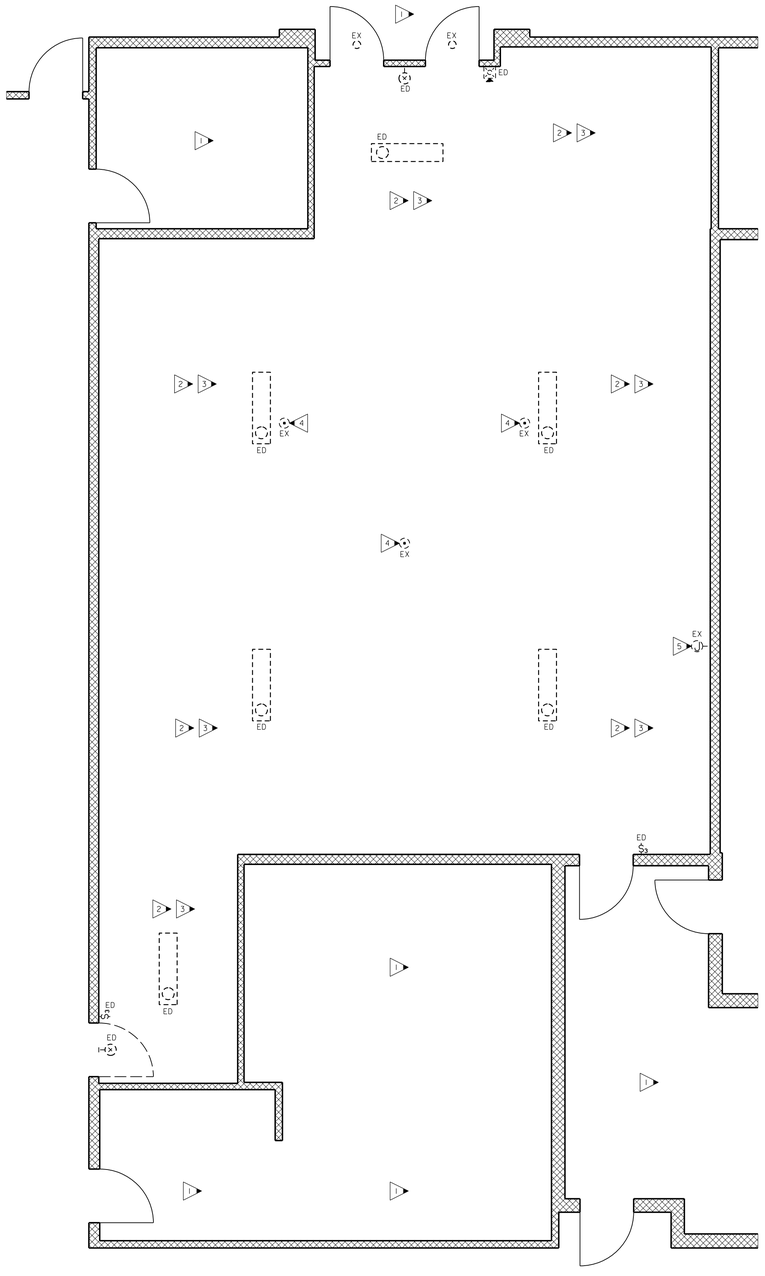
Drawing Issue Schedule	
10/16/2025	Permit Set

Project No: 2025-25

Electrical Legend, Schedule, & Specifications

E0.1

$FILE$
$DATE$



FLOOR PLAN - ELECTRICAL DEMOLITION

1 / E1.1

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

0 2' 4'

GENERAL DEMOLITION NOTES: (THIS SHEET ONLY)

A. REMOVE EXISTING LIGHTS (ONLY IN SPECIFIED AREAS) AND DISPOSE OF AS DIRECTED BY OWNER.

B. PROVIDE BLANK COVERS ON ALL JUNCTION BOXES AND OUTLET BOXES NOT INTENDED FOR REUSE. PROVIDE BLANK COVERS OVER ANY AND ALL UNCOVERED EXISTING JUNCTION OR OUTLET BOXES.

C. EXISTING CEILINGS, WALLS, AND FLOORS DISTURBED OR DISFIGURED BY THE ELECTRICAL RENOVATION SHALL BE PATCHED, MENDED OR REPLACED BY TRADES ACTIVELY PARTICIPATING IN THIS TYPE OF WORK. RESPONSIBILITY FOR REPAIRS SHALL BE COORDINATED BETWEEN GENERAL CONTRACTOR AND ELECTRICAL SUBCONTRACTOR.

D. ALL EXISTING EQUIPMENT REMOVED FROM SERVICE AND NOT INTENDED FOR REUSE SHALL REMAIN THE PROPERTY OF OWNER AND SHALL BE DISPOSED OF AS DIRECTED BY THE OWNER.

E. MAINTAIN SERVICE TO ALL EXISTING CIRCUITS THAT ARE NOT SCHEDULED FOR REMOVAL.

F. ALL ACCESSIBLE ITEMS OF ELECTRICAL EQUIPMENT CONDUITS, WIRING, LIGHTS, RECEPTACLES, ETC. AFFECTED BY THE RENOVATION WORK AND NOT REQUIRED IN THE COMPLETED WORK SHALL BE CAREFULLY REMOVED, DAMAGED WALLS, FLOORS, CEILINGS, ETC. SHALL BE PATCHED AND FINISHED TO MATCH THE EXISTING ADJACENT SURFACES. REMOVED ITEMS SHALL BE PROPERLY DISPOSED OF OFF SITE AND NOT REUSED EXCEPT AS NOTED. TURN OVER ALL EXISTING EQUIPMENT DESIRED BY BUILDING OWNER.

G. RECONNECT CIRCUITS AS REQUIRED TO MAINTAIN CONTINUITY TO EXISTING DEVICES AND EQUIPMENT TO REMAIN.

H. WHERE ONLY A PORTION OF A CIRCUIT'S LOAD IS SCHEDULED TO BE REMOVED. REMOVE ONLY THAT PORTION ASSOCIATED WITH THE DEMOLISHED DEVICE TO A POINT WHERE THE REMAINING LOAD IS ACTIVE AND MAINTAIN IN A GOOD OPERATING CONDITION.

I. EXISTING EQUIPMENT SHOWN ON ARCHITECTURAL, MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS THAT WILL REMAIN SHALL HAVE SERVICE MAINTAINED OR RECONNECTED TO EXISTING OR NEW PANELBOARD AS NECESSARY.

J. TO MAINTAIN SERVICE OR TO EXTEND OR RECONNECT CIRCUITS WHERE CONDUIT CAN NOT BE CONCEALED, SURFACE METAL RACEWAY (WIREMOLD V700 SERIES PAINTED TO MATCH WALLS) MAY BE USED. VERIFY WITH ARCHITECT BEFORE INSTALLING.

K. ELECTRICAL CONTRACTOR SHALL REVIEW ARCHITECTURAL DRAWINGS AND SITE CONDITIONS FOR DOOR SWINGS, CABINETS, COUNTERS AND OTHER BUILT-IN EQUIPMENT. CONDITIONS INDICATED ON ARCHITECTURAL DRAWING SHALL GOVERN.

L. COORDINATE ELECTRICAL WITH ARCHITECTURAL DETAILS, FLOOR PLANS, ELEVATIONS, STRUCTURAL, MECHANICAL AND PLUMBING DRAWINGS. PROVIDE FITTINGS, JUNCTION BOXES AND ACCESSORIES TO MEET CONDITIONS. COORDINATE ROUTING OF ALL NEW FEEDERS WITH EXISTING SITE ELEMENTS. ALL FEEDERS SHALL BE CONCEALED EXCEPT IN MECHANICAL/ELECTRICAL SPACES WITH SURFACE MOUNTED PANELS.

M. ENSURE ALL EXISTING TELEPHONE, DATA, SECURITY AND OTHER LOW VOLTAGE CABLING IS SECURED TO STRUCTURE AND PROTECTED FROM DAMAGE DURING DEMOLITION AND NEW CONSTRUCTION. CONTRACTOR IS RESPONSIBLE FOR KEEPING ALL SYSTEMS IN WORKING ORDER.

COORDINATION NOTE:

CONTRACTOR SHALL CAREFULLY REVIEW HVAC AND ELECTRICAL DRAWINGS PRIOR TO BID. ALL HVAC EQUIPMENT TO REMAIN, EQUIPMENT BEING REPLACED, AND NEW EQUIPMENT SHALL BE PROVIDED POWER. ELECTRICAL DRAWINGS SHOW THE MEANS OF PROVIDING POWER. HOWEVER, ALL EQUIPMENT MUST BE POWERED WHETHER SHOWN OR NOT.

WHERE ELECTRICAL DRAWINGS SHOW PROVIDING BREAKERS IN EXISTING PANELS TO SERVE EQUIPMENT, CONTRACTOR SHALL VERIFY AVAILABLE SPACE. IF NOT AVAILABLE, CONTRACTOR SHALL PROVIDE BREAKER IN CLOSEST PANEL WITH AVAILABLE CAPACITY AND SPACE.

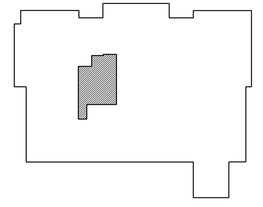
ALL EQUIPMENT MUST BE PROVIDED WITH A DISCONNECTING MEANS PER THE 2023 NEC (WHETHER OR NOT SHOWN ON ELECTRICAL DRAWINGS OR DIVISION 23)

KEYED NOTES: (THIS SHEET ONLY)

1. NO NEW WORK IN AREA UNLESS OTHERWISE NOTED.
2. ALL EXISTING LIGHT FIXTURE AND LIGHTING DEVICES IN AREA TO BE DEMOLISHED UNLESS OTHERWISE NOTED. SEE SHEET E2.1 FOR NEW LIGHTING WORK IN AREA.
3. ALL EXISTING RECEPTACLES, ELECTRICAL EQUIPMENT, AND FIRE ALARM DEVICES IN AREA TO BE DEMOLISHED UNLESS OTHERWISE NOTED. SEE SHEET E3.1 FOR NEW POWER AND LOW VOLTAGE SYSTEM WORK IN AREA.
4. EXISTING FLOOR BOX TO REMAIN THROUGHOUT RENOVATION.
5. EXISTING A/V JUNCTION BOX TO REMAIN. COORDINATE WITH A/V PROVIDER.

DEMOLITION LEGEND

ED	EXISTING DEVICE TO BE DEMOLISHED. SEE DEMOLITION NOTES.
EX	EXISTING DEVICE TO REMAIN. PROVIDE NEW DEVICE AND FACEPLATE. PROVIDE NEW CABLING BACK TO SERVING CABINET ON LOW VOLTAGE DEVICES.



KEY PLAN

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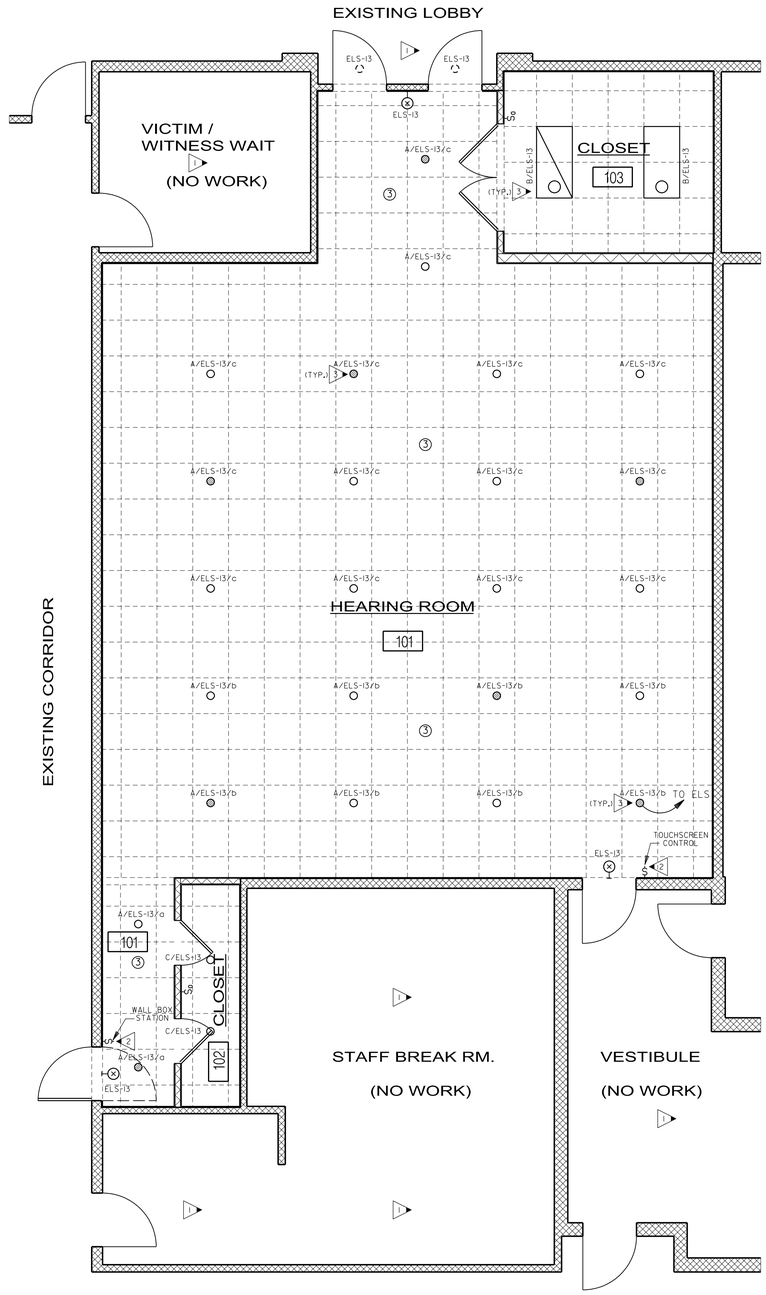
Drawing Issue Schedule	
10/16/2025	Permit Set
Project No:	2025-25

Floor Plan - Electrical Demolition

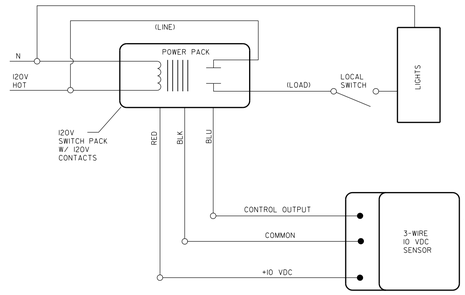
E1.1



1 E2.1 FLOOR PLAN - LIGHTING

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

0 2' 4'



2 E2.1 SCHEMATIC WIRING DIAGRAM - SENSOR CONTROL - LIGHTING

NOT TO SCALE

(SEE MANUFACTURERS RECOMMENDATION FOR SCHEMATIC WHERE MULTIPLE SENSORS OCCUR IN SAME SPACE.)

GENERAL NOTES:

A. THIS PLAN INDICATES AREAS TO BE CONTROLLED BY MOTION SENSORS. SINCE COVERAGES AND DEVICES VARY BETWEEN MANUFACTURERS IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO COORDINATE PROPER DEVICE LOCATION, ORIENTATION AND QUANTITIES WITH THE MANUFACTURER OF THE SYSTEM BEING INSTALLED TO MEET THE SPECIFIED CRITERIA.

B. ALL AREA'S OF THIS PLAN REQUIRE OCCUPANCY SENSOR COVERAGE (EXCEPT FOR MECHANICAL AND ELECTRICAL ROOMS). SEE LIGHTING SENSOR LEGEND E0.1 (TYPICAL).

C. THERE ARE NO SWITCHPACKS SHOWN ON THIS PLAN. PROVIDE SWITCHPACKS AS REQUIRED WITH SENSORS. SWITCHPACKS ARE TO BE RATED AT 20A. PROVIDE ONE SWITCHPACK PER 20A LIGHTING CIRCUIT OR PER INDIVIDUAL AREA BEING CONTROLLED.

D. CEILING SENSORS ARE TO BE MOUNTED AWAY FROM ANY STRONG AIRFLOW. COORDINATE LOCATION OF SENSOR WITH MECHANICAL AND LIGHTING PLANS.

E. ALL SENSORS SHALL BE CEILING MOUNTED EXCEPT WHERE CEILING HEIGHTS EXCEED 15 FT.-0 IN. PROVIDE SENSOR WITH ADAPTOR PLATE FOR JUNCTION BOX MOUNTING (JUNCTION BOX SHALL BE CONCEALED ABOVE ACCESSIBLE CEILING) JUNCTION BOX SHALL BE SUPPORTED FROM STRUCTURE UTILIZING A 3/8IN. THREADED ROD. WHERE CEILING HEIGHTS EXCEED 15 FT.-0 IN. WALL MOUNT SENSORS AT 12 FT.-0 IN.

F. PROVIDE UNSWITCHED HOT CONDUCTOR TO ALL EMERGENCY AND EXIT LIGHTS.

KEYED NOTES: (THIS SHEET ONLY)

1. NO NEW WORK IN AREA UNLESS OTHERWISE NOTED.
2. PROVIDE A THREE ZONE ROOM LIGHTING CONTROLLER SYSTEM. PROVIDE SYSTEM WITH TOUCHSCREEN CONTROL AND ONE MULTISCENE (4-SCENE+ OFF+RAISE/LOWER) WALL BOX STATION AS SHOWN. PROVIDE SYSTEM COMPLETE WITH POWER PACKS, AND CONNECTIVITY BETWEEN CONTROLER. ROUTE ALL LIGHTING CIRCUITS VIA CONTROLLER OR CONTROLLED POWER PACK. SYSTEM TO BE FULLY PROGRAMMABLE. PROVIDE INTERCONNECTIVITY REQUIRED BY SYSTEM PROVIDED. BASIS OF DESIGN IS THE NLIGHT NPOD SYSTEM. SYSTEM SHALL CONTROL FIXTURES FOR COURTROOM WITH SHOWN INDICATIONS (a, b, c) WITH EACH INDICATION REPRESENTING A SEPARATELY CONTROLLED ZONE.
3. HATCHED LIGHTING FIXTURE INDICATES FIXTURE PROVIDED WITH EMERGENCY BATTERY PACK.

LIGHT FIXTURE DESIGNATION DESCRIPTION

EXAMPLE: B/HAI-1/b

PANEL DESIGNATION:

CIRCUIT NUMBER

FIXTURE TYPE: TYPE 'A' IF NO CAPITAL LETTER SHOWN

SWITCH LEG DESIGNATION WHEN MULTIPLE SWITCHES ARE IN SAME SPACE/AREA

B/ HAI-1/b

PROVIDE ALL BRANCH CIRCUIT CONDUIT/CONDUCTORS AS NECESSARY TO CONNECT ALL DEVICES SHOWN ON THE CIRCUIT. PROVIDE DEDICATED NEUTRALS FOR ALL CIRCUITS. (STRIPED NEUTRAL WITH PHASE COLOR STRIPING)

COMcheck Software Version 4.1.5.5

Interior Lighting Compliance Certificate

Project Information

Energy Code: 2015 IECC
Project Title: Hearing Room Thomas Jackson Juvenile Justice Center
Project Type: Alteration

Construction Site:
560 Oglethorpe Street
Macon, GA 31201

Owner/Agent:

Designer/Contractor:
Electrical Design Consultants
175 New Street
Suite 1
Macon, GA 31201

Allowed Interior Lighting Power

A Area Category	B Floor Area (ft2)	C Allowed Watts / ft2	D Allowed Watts (B X C)
1-Court House	1495	1.01	1510
		Total Allowed Watts =	1510

Proposed Interior Lighting Power

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixtures	D Fixture Watt.	E (C X D)
Court House (1495 sq.ft.)				
A: A: 8 IN. DOWNLIGHT: LED Other Fixture Unit 46W:	1	24	47	1128
B: B: 2 FT. X 4 FT. FLAT PANEL: LED Panel 38W:	1	2	37	74
C: C: 6 IN. DOWNLIGHT: LED Other Fixture Unit 13W:	1	2	11	22
		Total Proposed Watts =		1224

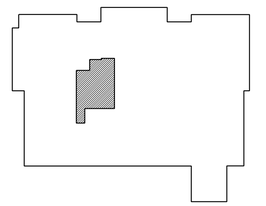
Interior Lighting PASSES

Interior Lighting Compliance Statement

Compliance Statement: The proposed interior lighting alteration project represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed interior lighting systems have been designed to meet the 2015 IECC requirements in *COMcheck* Version 4.1.5.5 and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Jeffrey H. McGee, PE — Name - Title
Signature
09/29/25 — Date

Project Title: Hearing Room Thomas Jackson Juvenile Justice Center
Data filename: Z:\2025 CAD\M25098 Thomas Jackson Juvenile Renovation\WORKING DRAWINGS\ELEC\LIGHTING\Thomas Jackson Juvenile COMcheck.cck
Report date: 09/29/25



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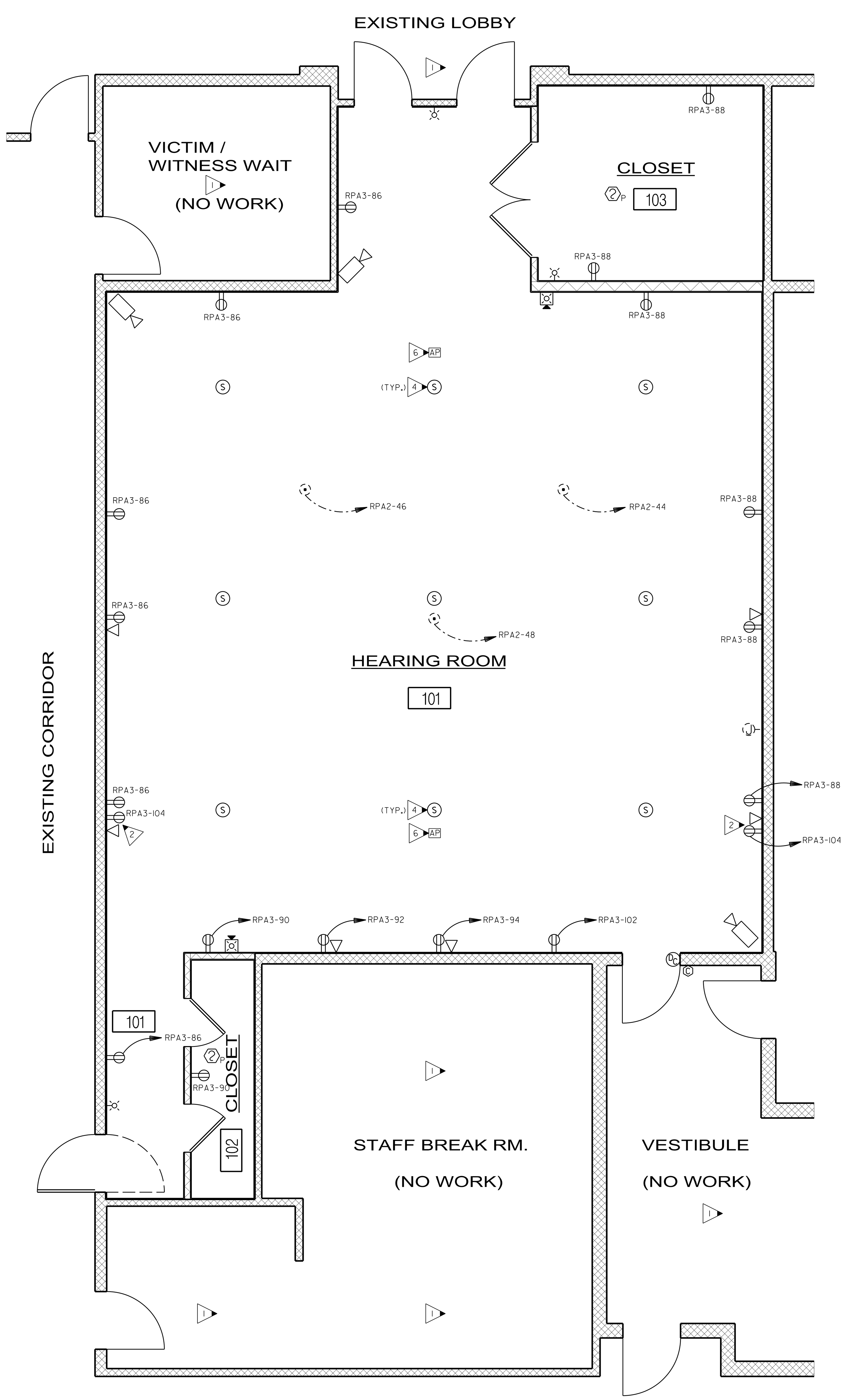
Drawing Issue Schedule	
10/16/2025	Permit Set
Project No:	2025-25

Floor Plan - Lighting

E2.1

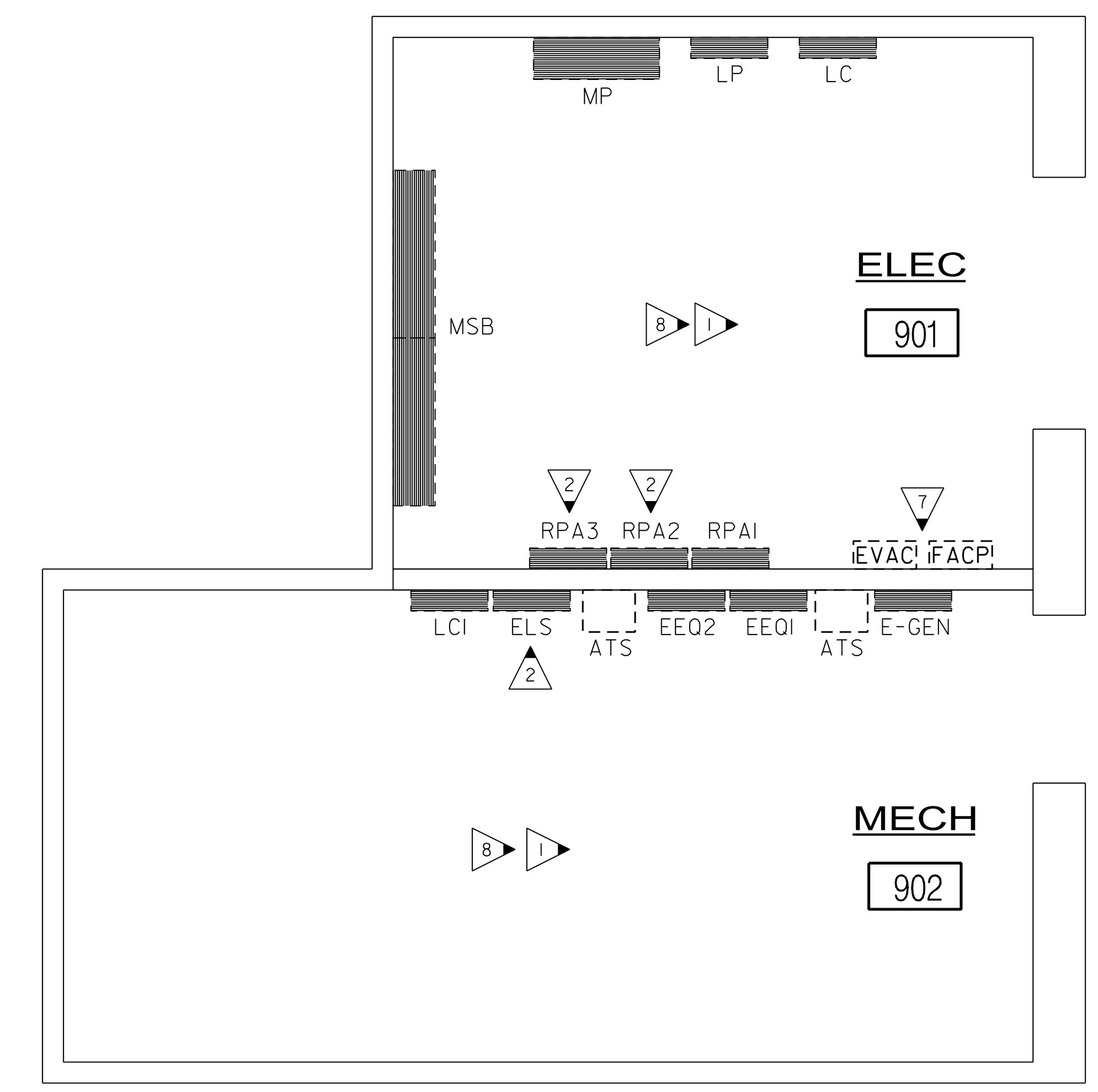


FLOOR PLAN - POWER & SYSTEMS

1 / E3.1

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

0 2' 4'



ELEC. ROOM PLAN - POWER & SYSTEMS

2 / E3.1

NOT TO SCALE

GENERAL NOTES: (THIS SHEET ONLY)

A. COORDINATE EXACT LOCATIONS OF ALL MECHANICAL EQUIPMENT. PRIOR TO ELECTRICAL ROUGH-IN.

B. ALL FLEXIBLE CONDUIT SHALL BE METALLIC WATERPROOF.

C. COORDINATE FINAL RECEPTACLE AND VOICE/DATA OUTLET LOCATIONS WITH ARCHITECTURAL CASEWORK AND OWNER PRIOR TO ROUGH-IN. NO EXCEPTIONS.

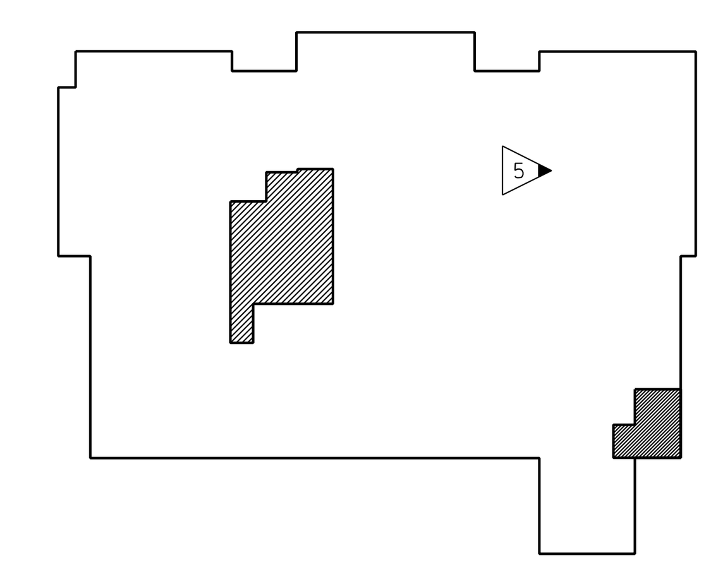
D. COORDINATE EXACT CONDUIT REQUIREMENTS FOR THERMOSTATS TO ALL AIR HANDLING UNITS. SEE MECHANICAL DRAWINGS FOR EXACT LOCATIONS. PROVIDE OUTLET BOXES AND CONDUIT TO ABOVE CEILINGS FOR ALL THERMOSTATS.

E. FIRE SEAL ALL FIREWALL PENETRATIONS.

KEYED NOTES: (THIS SHEET ONLY)

1. NO NEW WORK IN AREA UNLESS OTHERWISE NOTED.
2. MOUNT RECEPTACLE AND DATA OUTLET HIGH ON WALL FOR MONITOR. COORDINATE EXACT MOUNTING HEIGHT AND LOCATION WITH OWNER/ ARCHITECT PRIOR TO ROUGH-IN.
3. NEW LOAD TO BE ON EXISTING SPARE BREAKER IN PANEL. REFER TO PANEL SCHEDULE ON SHEET E4.1.
4. COORDINATE EXACT LOCATION OF SPEAKER IN CEILING WITH LOW VOLTAGE PROVIDER PRIOR TO ROUGH-IN.
5. LOCATION OF EXISTING DATA CLOSET 118. ROUTE NEW TELE/DATA AND SECURITY SYSTEM CONDUIT TO ROOM. FIELD VERIFY EXACT LOCATION AND LAYOUT OF CLOSET.
6. CEILING MOUNTED BISCUIT STYLE DATA OUTLET PROVIDED BY OTHERS FOR WIRELESS ACCESS POINT. COORDINATE EXACT LOCATION WITH OWNER/ ARCHITECT/EQUIPMENT PROVIDER PRIOR TO BOX AND CONDUIT ROUGH-IN.
7. EXISTING EDWARDS EST VOICE EVAC FIRE ALARM SYSTEM. FIELD VERIFY EXACT LOCATION PRIOR TO ANY WORK.
8. ELECTRICAL ROOM IS LOCATED APPROXIMATELY 150 FEET FROM HEARING ROOM 101. FIELD VERIFY EXACT LOCATION OF ELECTRICAL ROOM AND REQUIRED DISTANCE FOR ALL HOMERUNS SHOWN.

PROVIDE ALL BRANCH CIRCUIT CONDUIT/CONDUCTORS AS NECESSARY TO CONNECT ALL DEVICES SHOWN ON THE CIRCUIT. PROVIDE DEDICATED NEUTRALS FOR ALL CIRCUITS. (STRIPED NEUTRAL WITH PHASE COLOR STRIPING)



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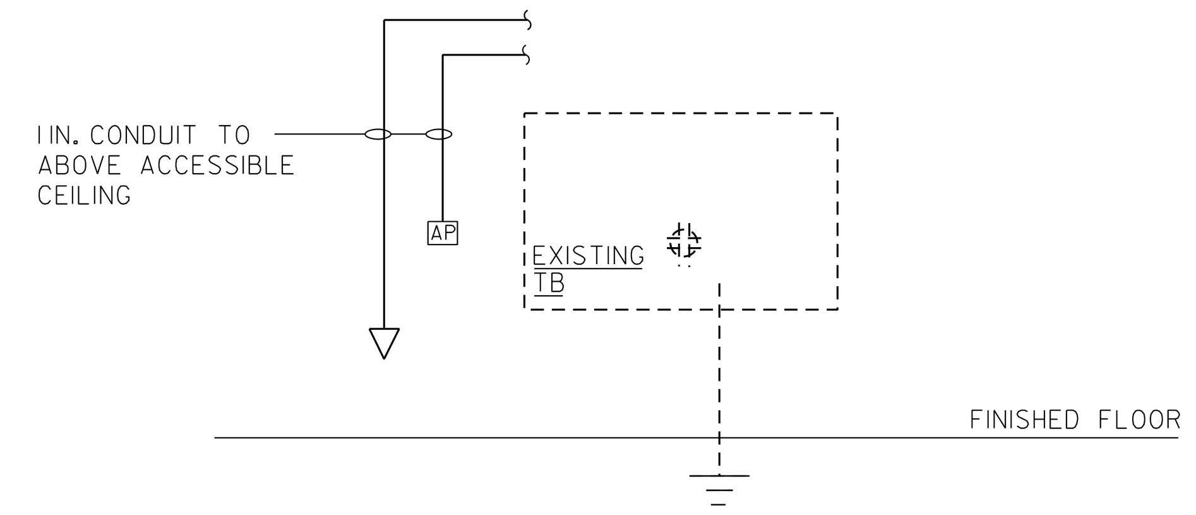
Drawing Issue Schedule	
10/16/2025	Permit Set

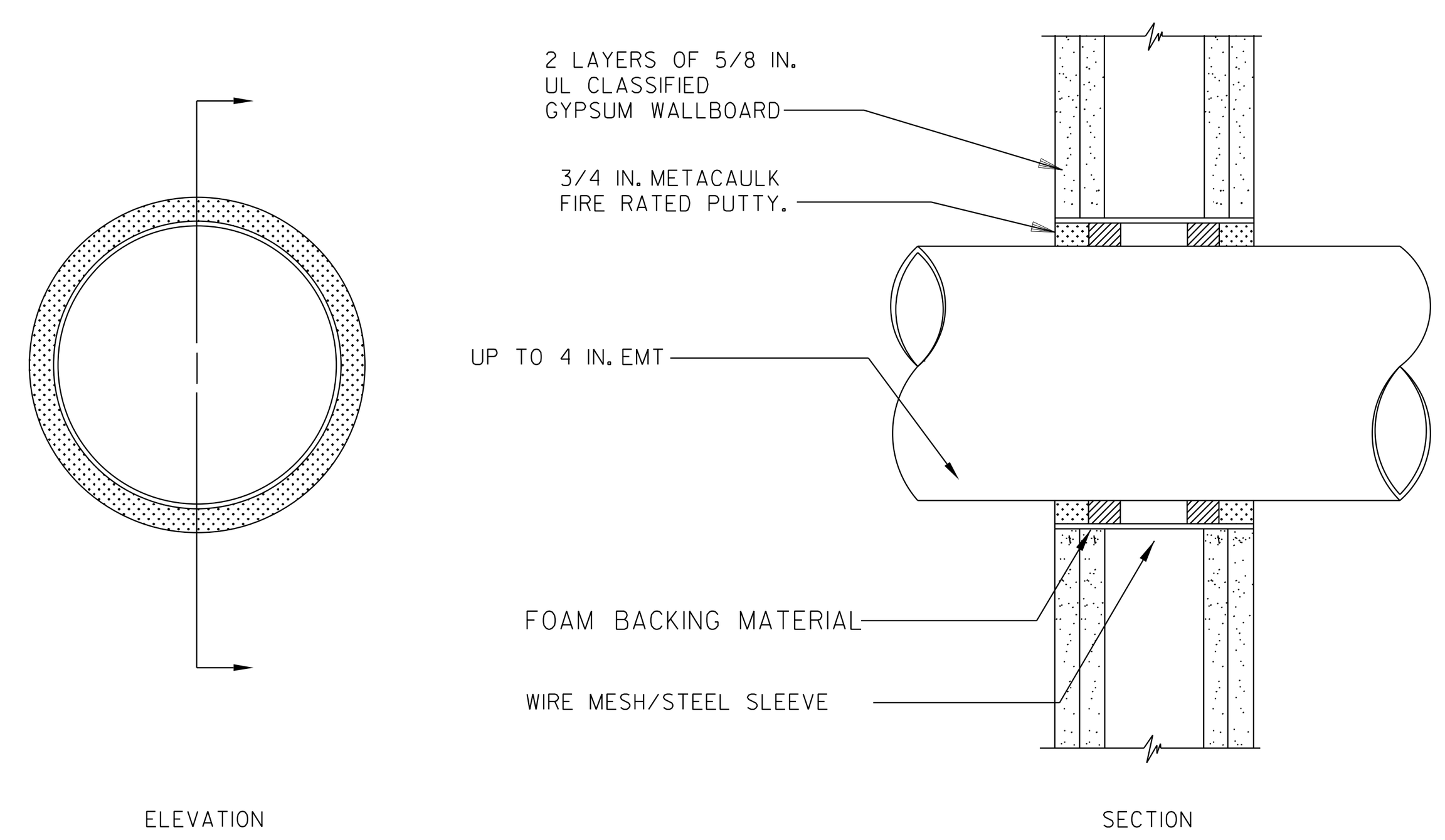
Project No: 2025-25

Floor Plan - Power & Systems

E3.1

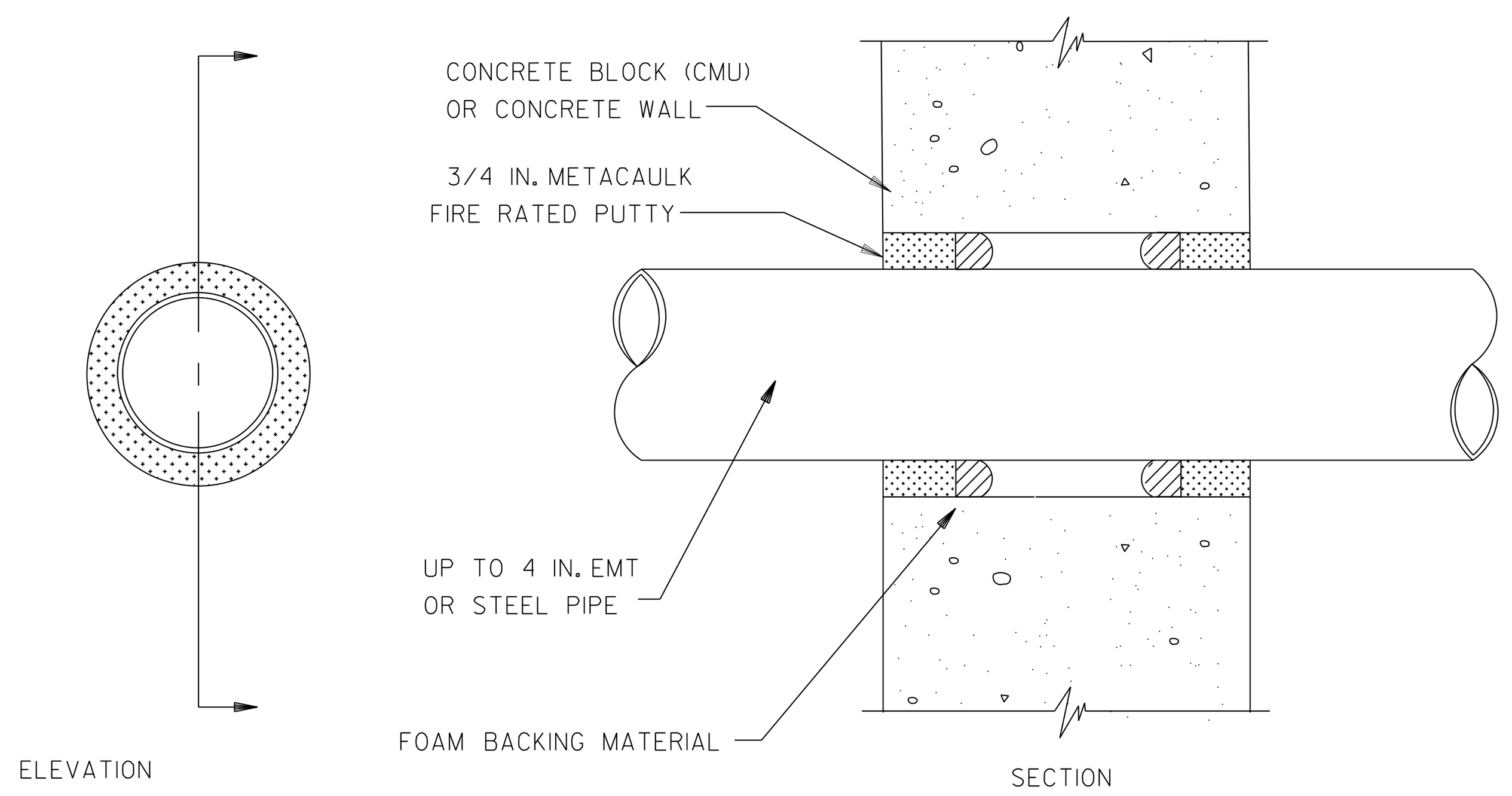


2 / E4.1 TELEPHONE/DATA RISER
NOT TO SCALE



NOTE: WHERE CONDUIT IS USED AS A SLEEVE FOR ROUTING LOW VOLTAGE CABLES THROUGH A RATED WALL, LOCATE CONDUCTORS IN CENTER OF SLEEVE AND FILL OPENING WITH FIRE RATED PUTTY AT EACH END OF SLEEVE.

3 / E4.1 DETAIL - GYPSUM WALLBOARD PENETRATION
NOT TO SCALE



NOTE: WHERE CONDUIT IS USED AS A SLEEVE FOR ROUTING LOW VOLTAGE CABLES THROUGH A RATED WALL, LOCATE CONDUCTORS IN CENTER OF SLEEVE AND FILL OPENING WITH FIRE RATED PUTTY AT EACH END OF SLEEVE.

4 / E4.1 DETAIL - CONCRETE WALL PENETRATION
NOT TO SCALE

PANEL RPA2

VOLTAGE	120 / 208			LOCATION	ELEC. 901
PHASE 3 WIRE 4		PANEL	RPA2	MOUNTING	SURFACE
BUS AMPS	250	MAIN AMPS	250	MAIN	LUGS

DESCRIPTION	VOLT AMPS A	VOLT AMPS B	VOLT AMPS C	BRKR AMP	BRKR P	CKT NO	BUS CONN	CKT NO	BRKR P	BRKR AMP	VOLT AMPS C	VOLT AMPS B	VOLT AMPS A	DESCRIPTION
108 VENDING				20	1	43	A	44	1	20			400	* 111 COURT FLOOR
108 VENDING				20	1	45	B	46	1	20		400		* 111 COURT FLOOR
108 VENDING				20	1	47	C	48	1	20	400			* 111 COURT FLOOR
SEATING TV				20	1	49	A	50	1	20				ENERGY MONITOR
(EXISTING LOAD)				20	1	51	B	52	1	20				ENERGY MONITOR
(EXISTING LOAD)				20	1	53	C	54	1	20				ENERGY MONITOR
SEATING TV				20	1	55	A	56	1	20				(EXISTING LOAD)
100 VESTIBULE				20	1	57	B	58	1	20				(EXISTING LOAD)
107 W BATH DRYER				20	1	59	C	60	1	20				(EXISTING LOAD)
107 W BATH				20	1	61	A	62	1	20				(EXISTING LOAD)
102 SEATING				20	1	63	B	64	1	20				114, 117 AC CONF
EWC				20	1	65	C	66	1	20				113 AC CONF
101 ENTRY SEC				20	1	67	A	68	1	20				720 WAITING ROOM
104 M BATH DRYER				20	1	69	B	70	1	20				206 PD WORK
104 M BATH				20	1	71	C	72	1	20				206 PD WORK
101 SEC REC				20	1	73	A	74	1	20				202 PD ADMIN
101 SEC REC				20	1	75	B	76	1	20				202 PD ADMIN
101 SEC REC				20	1	77	C	78	1	20				203 PD CONF. R
101 SEC REC				20	1	79	A	80	1	20				204 ATTORNEY
(EXISTING LOAD)				20	1	81	B	82	1	20				205 ATTORNEY
(EXISTING LOAD)				20	1	83	C	84	1	20				207 INVESTIGATE
TOTALS	0	0	0								400	400	400	

VOLT AMPS: BUS A 400; BUS B 400; BUS C 400; TOTAL 1200

REMARKS: EXISTING PANEL TO REMAIN
SECTION 2 OF 3
* NEW LOAD ON EXISTING SPARE BREAKER

PANEL RPA3

VOLTAGE	120 / 208			LOCATION	ELEC. 901
PHASE 3 WIRE 4		PANEL	RPA3	MOUNTING	SURFACE
BUS AMPS	250	MAIN AMPS	250	MAIN	LUGS

DESCRIPTION	VOLT AMPS A	VOLT AMPS B	VOLT AMPS C	BRKR AMP	BRKR P	CKT NO	BUS CONN	CKT NO	BRKR P	BRKR AMP	VOLT AMPS C	VOLT AMPS B	VOLT AMPS A	DESCRIPTION
309 BREAK FRIDGE				20	1	85	A	86	1	20			1200	* 111 COURT RECEPT.
309 BREAK DW				20	1	87	B	88	1	20		1200		* 111 COURT RECEPT.
309 BREAK MW				20	1	89	C	90	1	20	400			* 111 COURT STAND
309 BREAK COFFEE				20	1	91	A	92	1	20			200	* 111 COURT STAND
309 BREAK TV				20	1	93	B	94	1	20		200		* 111 COURT STAND
(EXISTING LOAD)				20	1	95	C	96	1	20				TEF 7
308 MAJOR				20	1	97	A	98	1	20				TEF 8
307 CAPTAIN				20	1	99	B	100	1	20				ROOF REC
305 SHERIFF GEAR				20	1	101	C	102	1	20	200			* 111 COURT STAND
EWC				20	1	103	A	104	1	20			400	* 111 COURT SCREEN
SEC CORRIDOR				20	1	105	B	106	1	20				SPARE
423, 424 INTERN				20	1	107	C	108	1	20				SPARE
301 SEC OFF ADMIN				20	1	109	A	110	1	20				SPARE
301 SEC OFF ADMIN				20	1	111	B	112	1	20				SPARE
301 SEC OFF ADMIN				20	1	113	C	114	1	20				SPARE
301 SEC OFF ADMIN				20	1	115	A	116	3	20				ECLGH-1
306 WORK AREA				20	1	117	B	118						
306 WORK AREA				20	1	119	C	120						
306 WORK AREA				20	1	121	A	122	3	20				ECLGH-2
PD COORDINAT				20	1	123	B	124						
PD COORDINAT				20	1	125	C	126						
TOTALS	0	0	0								600	1400	1800	

VOLT AMPS: BUS A 1800; BUS B 1400; BUS C 600; TOTAL 3800

REMARKS: EXISTING PANEL TO REMAIN
SECTION 3 OF 3
* NEW LOAD ON EXISTING SPARE BREAKER

PANEL ELS

VOLTAGE	120 / 208			LOCATION	MECH 902
PHASE 3 WIRE 4		PANEL	ELS	MOUNTING	SURFACE
BUS AMPS	100	MAIN AMPS	100	MAIN	LUGS

DESCRIPTION	VOLT AMPS A	VOLT AMPS B	VOLT AMPS C	BRKR AMP	BRKR P	CKT NO	BUS CONN	CKT NO	BRKR P	BRKR AMP	VOLT AMPS C	VOLT AMPS B	VOLT AMPS A	DESCRIPTION
EMERG EGRESS LTS.				20	1	1	A	2	1	20				SECURITY CONT. LTS
EMERG EGRESS LTS.				20	1	3	B	4	1	20				SALLY PORT LTS.
EXT. WALL LTS.				20	1	5	C	6	1	20				HOUSING CELLS LTS.
ENTRY SECURITY LTS.				20	1	7	A	8	1	20				SPARE
FRONT CORR. LTS.				20	1	9	B	10	1	20				SPARE
LEFT CORR. LTS.				20	1	11	C	12	1	20				SPARE
* 111 COURT LTS	1300			20	1	13	A	14	1	20				SPARE
SPARE				20	1	15	B	16	1	20				LC-1
(EXISTING LOAD)				20	1	17	C	18	1	20				SPARE
115 COURT LTS. D				20	1	19	A	20	1	20				SPARE
119 COURT LT				20	1	21	B	22	1	20				SPARE
SPARE				20	1	23	C	24	1	20				SPARE
115 COURT LTS				20	1	25	A	26	1	20				SPARE
119 COURT LTS				20	1	27	B	28	1	20				SPARE
SPARE				20	1	29	C	30	1	20				SPARE
501 JUDGE OFF. LTS.				20	1	31	A	32	1	20				SPARE
506, 511 JUDGE LTS				20	1	33	B	34	1	20				SPARE
JUDGE CORR. LTS.				20	1	35	C	36	2	20				POLE LIGHTS
SPARE				20	1	37	A	38						
SPARE				20	1	39	B	40	2	20				POLE LIGHTS
SPARE				20	1	41	C	42						
TOTALS	1300	0	0								0	0	0	

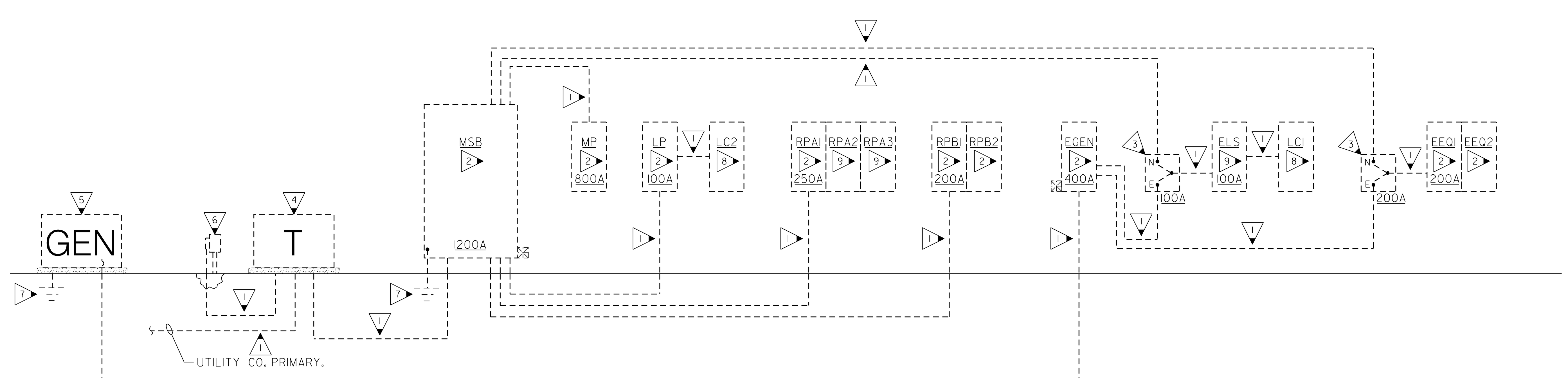
VOLT AMPS: BUS A 1300; BUS B 0; BUS C 0; TOTAL 1300

REMARKS: EXISTING PANEL TO REMAIN
* NEW LOAD ON EXISTING SPARE BREAKER

NEW OVERALL LOAD TO PANELS SERVING AREA BEING RENOVATED ARE BEING REDUCED BY MORE EFFICIENT LED LIGHTING. EXISTING HVAC AND PLUMBING EQUIPMENT TO REMAIN.

KEYED NOTES: (THIS SHEET ONLY)

1. EXISTING CIRCUITRY TO REMAIN THROUGHOUT RENOVATION.
2. EXISTING PANEL TO REMAIN THROUGHOUT RENOVATION.
3. EXISTING A.T.S. TO REMAIN THROUGHOUT RENOVATION.
4. EXISTING TRANSFORMER TO REMAIN.
5. EXISTING GENERATOR TO REMAIN.
6. EXISTING METER BASE TO REMAIN.
7. EXISTING GROUNDING TO REMAIN.
8. EXISTING LIGHTING CONTROL PANEL TO REMAIN THROUGHOUT RENOVATION.
9. SPARE BREAKER IN EXISTING PANEL TO BE UTILIZED. REFER TO PANEL SCHEDULE ON THIS SHEET.



1 / E4.1 EXISTING POWER RISER DIAGRAM
NOT TO SCALE

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HEARING ROOM
THOMAS JACKSON JUVENILE JUSTICE CENTER
560 OGLETHORPE STREET, MACON, GEORGIA

Drawing Issue Schedule	
10/16/2025	Permit Set

Project No: 2025-25

EDC ELECTRICAL DESIGN CONSULTANTS
ELECTRICAL ENGINEERS
MACON OFFICE - PROJECT #: M25098
edc1973.com

Existing Power Riser Diagram, Details, & Schedules

E4.1