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Macon, Georgia 31210

MECHANICAL / PLUMBING / FIRE PROTECTION

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169 New Street
Macon, Georgia 31201

ELECTRICAL

Electrical Design Consultants
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Macon, Georgia 31201

GEORGIA

REGISTERED

NO. 0000000000

PROFESSIONAL ENGINEER

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PAUL M. PAUL

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PROFESSIONAL ENGINEER

KEITH H. MURPHY

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)	
2018 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:	Type 2-A
LIFE SAFETY CODE USE CLASSIFICATION(S):	Business
OCCUPANCY TYPE:	Business (B)
IBC	
TOTAL BUILDING AREA:	2ND FLOOR = 3,646 S.F.
DESIGN OCCUPANT LOAD:	
COMMAND CENTER	917 S.F. / 50 S.F. PER PERSON = 19 PEOPLE
REMAINDER OF AREA	2,729 S.F. / 150 S.F. PER PERSON = 19 PEOPLE
	TOTAL = 38 PEOPLE
CHANGE OF USE:	NO
AUTO SPRINKLER SYSTEM:	NO
FIRE ALARM SYSTEM:	YES
DEFERRED SUBMITTALS (Separate permit)	YES
FIRE ALARM SYSTEM	

PROJECT TITLE :

RENOVATIONS FOR

MBC CODE ENFORCEMENT OFFICES

2ND FLOOR / CITY HALL

CORNER FIRST & POPLAR ST. MACON, GA

Permit Set +Revision # 1



FIRST STREET ELEVATION

NO SCALE

VICINITY MAP :



PROJECT NARRATIVE:

Renovation of former Detectice Bureau space for Macon-Bibb County Code Enforcement offices. These new offices are in addition to code enforcement offices on the main floor.

DRAWING INDEX : 27 TOTAL	
GENERAL INFORMATION - 5	
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A1.1	Partial First and Second Floor Plans
A2.1	Finish & Material Schedule, Door Types & Details
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E1.1	Partial Second Floor Plan - Electrical Demolition
E1.2	Partial First Floor Plan - Electrical Demolition
E2.1	Partial Second Floor Plan - Lighting
E3.1	Partial Second Floor Plan - Power & Systems
E4.1	Partial First Floor Plan - Electrical
E5.1	Power Riser Diagram & Electrical Details
E5.2	Electrical Details & Schedules

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ARCHITECTS | PLANNERS

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STATE OF GEORGIA

ROBERT WALSH

REGISTERED ARCHITECT

EXPIRATION DATE 12-31-2025

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RENOVATIONS FOR

MBC CODE ENFORCEMENT OFFICES

2ND FLOOR / CITY HALL

CORNER FIRST & POPLAR ST. MACON, GA

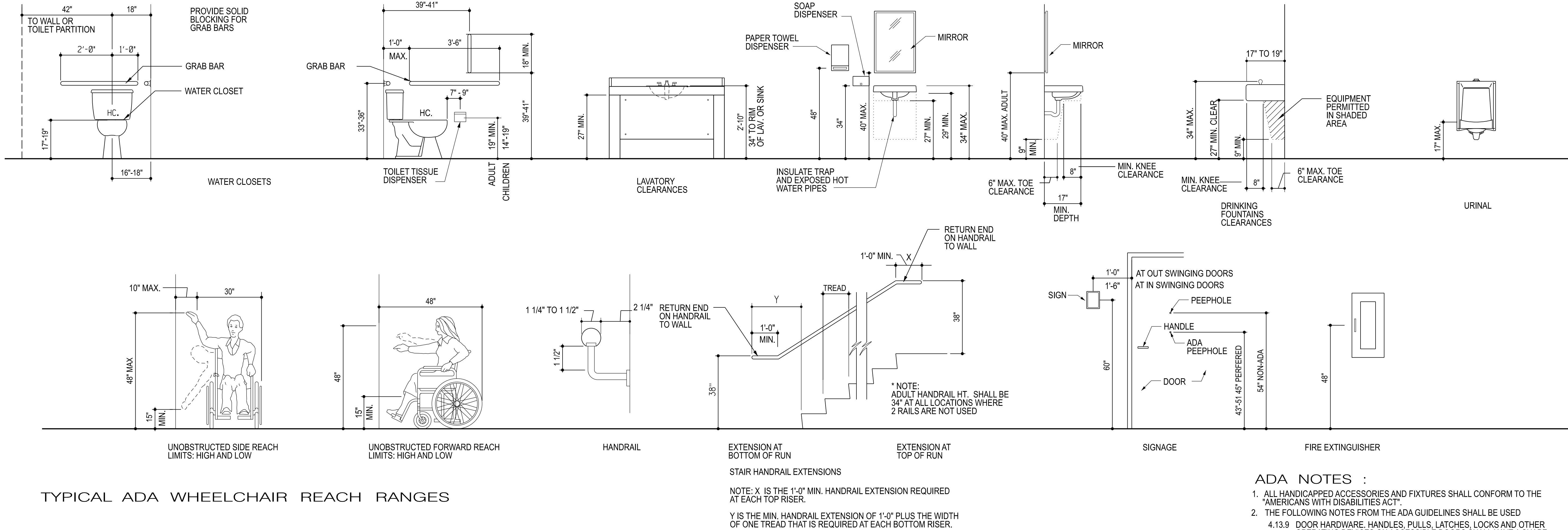
Drawing Issue Schedule	
2-14-2025	Permit Set
3-6-2025	Revision 1
Project No: 2024-34	

Title Sheet & Code Summary

G1.1

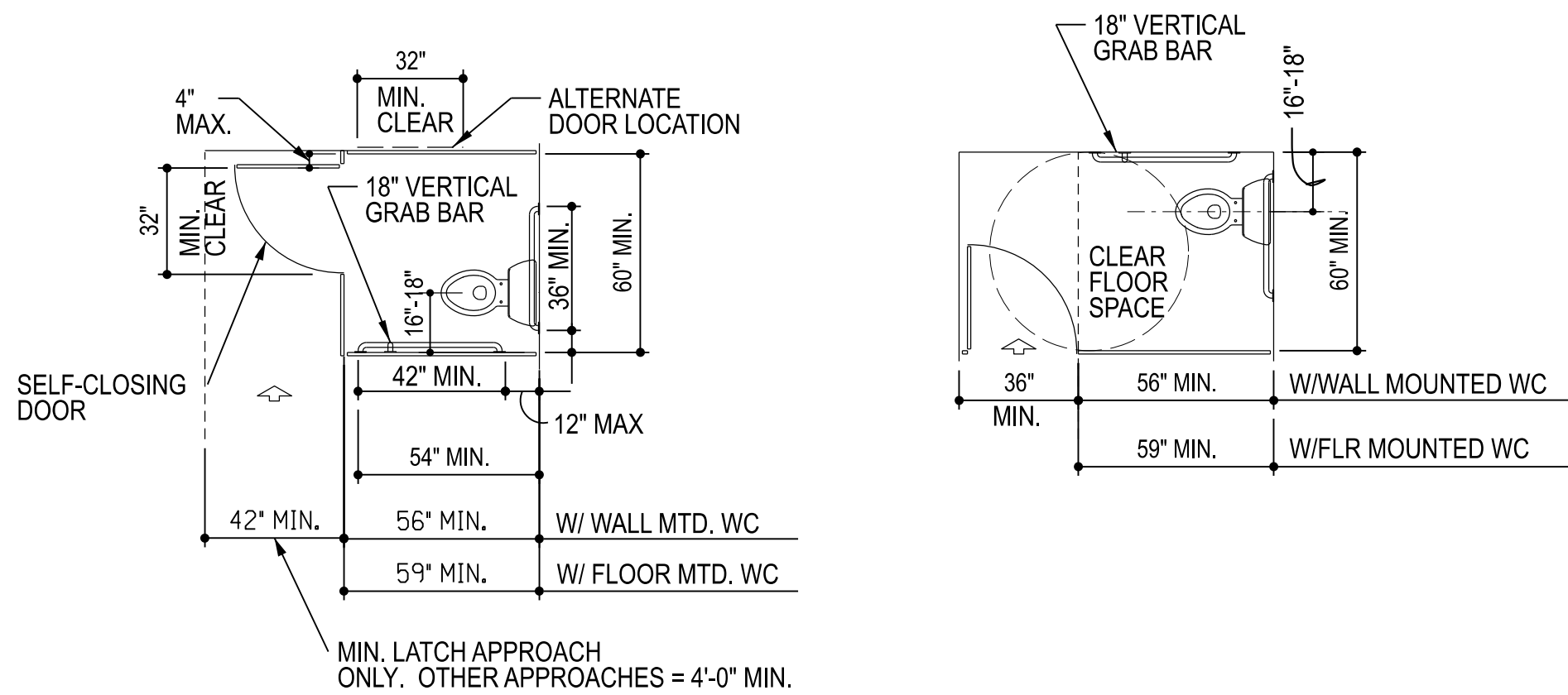
-R1

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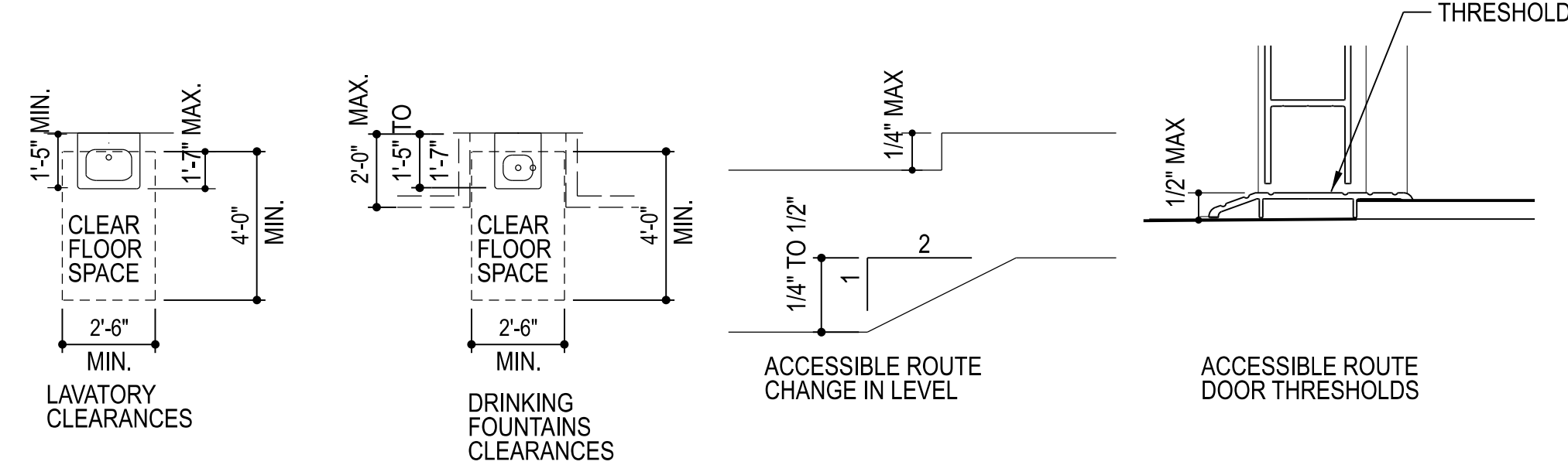


TYPICAL ADA WHEELCHAIR REACH RANGES

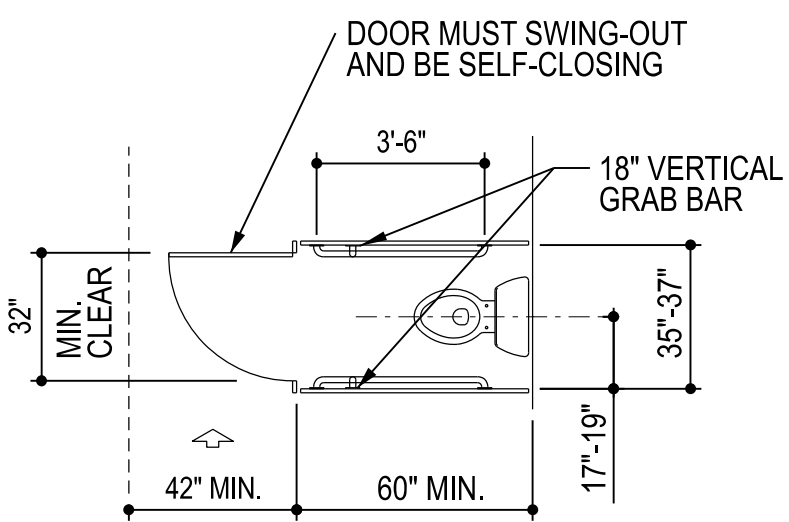
STANDARD WHEELCHAIR ACCESSIBLE STALLS



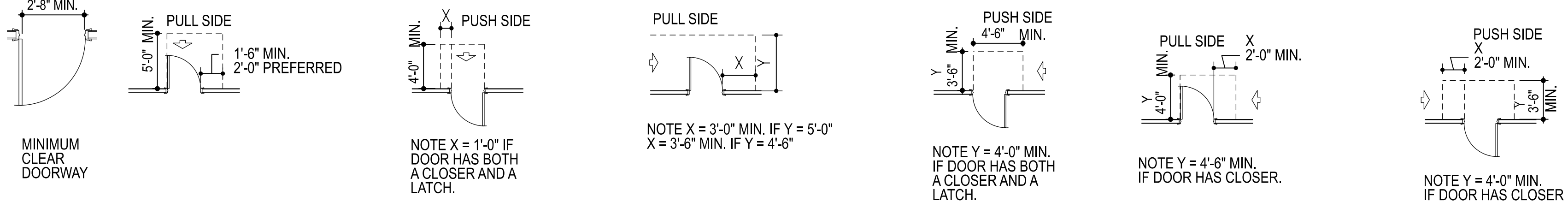
STANDARD ADA CLEARANCES



STANDARD AMBULATORY ACCESSIBLE TOILET COMPARTMENT



STANDARD ADA MANEUVERING CLEARANCES AT DOORS



FRONT APPROACHES - SWINGING DOORS

HINGE SIDE APPROACHES - SWINGING DOORS

LATCH SIDE APPROACHES - SWINGING DOORS

ADA NOTES :

- ALL HANDICAPPED ACCESSORIES AND FIXTURES SHALL CONFORM TO THE "AMERICANS WITH DISABILITIES ACT".
- THE FOLLOWING NOTES FROM THE ADA GUIDELINES SHALL BE USED
 - DOOR HARDWARE: HANDLES, PULLS, LATCHES, LOCKS AND OTHER OPERATING DEVICES ON ACCESSIBLE DOORS SHALL HAVE A SHAPE THAT IS EASY TO GRASP WITH ONE HAND AND DOES NOT REQUIRE TIGHT GRASPING OR TWISTING OF THE WRIST TO OPERATE. LEVER-OPERATED MECHANISMS, PUSH-TYPE MECHANISMS, AND U-SHAPED HANDLES ARE ACCEPTABLE DESIGNS. WHEN SLIDING DOORS ARE FULLY OPEN, OPERATING HARDWARE SHALL BE EXPOSED AND USABLE FROM BOTH SIDES. HARDWARE REQUIRED FOR ACCESSIBLE DOOR PASSAGE SHALL BE MOUNTED NO HIGHER THAN 4'-0" ABOVE FINISHED FLOOR.
 - DOOR CLOSER: IF A DOOR HAS A CLOSER, THEN THE SWEEP PERIOD OF THE CLOSER SHALL BE ADJUSTED SO THAT FROM AN OPEN POSITION OF 70 DEGREES, THE DOOR WILL TAKE AT LEAST 3 SECONDS TO MOVE TO A POINT 3 IN FROM THE LATCH, MEASURED TO THE LEADING EDGE OF THE DOOR.
 - DOOR OPENING FORCE: THE MAXIMUM FORCE FOR PUSHING AND PULLING OPEN A DOOR SHALL BE AS FOLLOW:
 - FIRE DOORS SHALL HAVE THE MINIMUM OPENING FORCE ALLOWABLE BY THE APPROPRIATE ADMINISTRATIVE AUTHORITY.
 - OTHER DOORS.
 - EXTERIOR HINGED DOOR: (RESERVED).
 - INTERIOR HINGED DOORS: 5 LBS.
 - SLIDING OR FOLDING DOORS: 5 LBS.

THESE FORCES DO NOT APPLY TO THE FORCE REQUIRED TO RETRACT LATCH BOLTS OR DISENGAGE OTHER DEVICES THAT MAY HOLD THE DOOR IN A CLOSED POSITION.

4.15.3 SPOUT LOCATION: THE SPOUTS OF DRINKING FOUNTAINS AND WATER COOLERS SHALL BE AT THE FRONT OF THE UNIT AND SHALL DIRECT THE WATER FLOW IN A TRAJECTORY THAT IS PARALLEL OR NEARLY PARALLEL TO THE FRONT OF THE UNIT. THE SPOUT SHALL PROVIDE A FLOW OF WATER AT LEAST 4" HIGH SO AS TO ALLOW THE INSERTION OF A CUP OR GLASS UNDER THE FLOW OF WATER. ON AN ACCESSIBLE DRINKING FOUNTAIN WITH A ROUND OR OVAL BOWL, THE SPOUT MUST BE POSITIONED SO THE FLOW OF WATER IS WITHIN 3" OF THE FRONT EDGE OF THE FOUNTAIN.

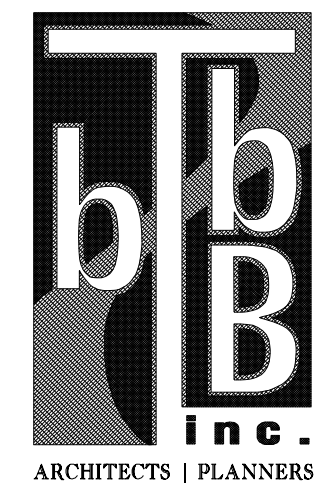
4.16.6 DISPENSERS: TOILET PAPER DISPENSERS SHALL BE INSTALLED WITHIN REACH, AS SHOWN ON WATER CLOSET DRAWING THIS SHEET. DISPENSERS THAT CONTROL DELIVERY, OR THAT DO NOT PERMIT CONTINUOUS PAPER FLOW SHALL NOT BE USED.

4.17.5 DOORS, TOILET STALL DOORS, INCLUDING DOOR HARDWARE, SHALL COMPLY WITH 4.13. IF TOILET STALL APPROACH IS FROM THE LATCH SIDE OF THE STALL DOOR, CLEARANCE BETWEEN THE DOOR SIDE OF THE STALL AND ANY OBSTRUCTION MAY BE REDUCED TO A MINIMUM OF 3'-6".

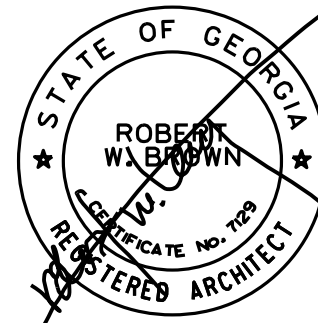
4.18.3 CLEAR FLOOR SPACE: A CLEAR FLOOR SPACE 2'-6" BY 4'-0" SHALL BE PROVIDED IN FRONT OF URINALS TO ALLOW FORWARD APPROACH. THIS CLEAR SPACE SHALL JOIN OR OVERLAP AN ACCESSIBLE ROUTE. SHIELDS THAT DO NOT EXTEND BEYOND THE FRONT EDGE OF THE URINAL RIM MAY BE PROVIDED WITH 2'-5" CLEARANCE BETWEEN THEM.

4.19.4 EXPOSED PIPES AND SURFACES: HOT WATER AND DRAIN PIPES UNDER LAVATORIES SHALL BE INSULATED OR OTHERWISE CONFIGURED TO PROTECT AGAINST CONTACT. THERE SHALL BE NO SHARP OR ABRASIVE SURFACES UNDER LAVATORIES.

4.27.4 OPERATION, CONTROLS AND OPERATING MECHANISMS SHALL BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING, OR TWISTING OF THE WRIST. THE FORCE REQUIRED TO ACTIVATE CONTROLS SHALL BE NO GREATER THAN 5 LBS.



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RENOVATIONS FOR
MBC CODE ENFORCEMENT OFFICES
2ND FLOOR / CITY HALL
CORNER FIRST & POPLAR ST. MACON, GA

Drawing Issue Schedule	
2-14-2025	Permit Set
Project No:	2024-34

General Information

G1.2

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2/28/2025

SPECIAL CONDITIONS AND TEMPORARY FACILITIES

- A. EXAMINATION OF SITE:
- EACH BIDDER BY MAKING HIS BID REPRESENTS THAT HE HAS VISITED THE SITE AND FAMILIARIZED HIMSELF WITH THE LOCAL CONDITIONS UNDER WHICH THE WORK IS TO BE PERFORMED AND THAT HE HAS READ AND UNDERSTANDS THE BIDDING DOCUMENTS. BIDDERS SHALL EXAMINE THE AREAS WHEREIN WORK OF THIS PROJECT IS TO BE CARRIED OUT AND SHALL TAKE INTO CONSIDERATION ALL CONDITIONS THAT MIGHT AFFECT HIS WORK.
 - ARRANGEMENTS TO EXAMINE THE EXISTING BUILDING AND AREAS AFFECTED BY THE WORK OF THIS PROJECT, OTHER THAN AT THE TIME OF THE PRE-BID MEETING MUST BE SCHEDULED THROUGH:

RODNEY MILLER
MACON BIBB COUNTY CODE ENFORCEMENT
BIBB COUNTY COURTHOUSE
(478) 303-0644
RMILLER@MACONBIBB.US
 - FAILURE OF THE BIDDER TO INSPECT FIRST-HAND THE AREAS AFFECTED BY WORK IN THIS PROJECT SHALL NOT RELIEVE HIM OF THE OBLIGATION TO COMPLY FULLY WITH THE SCOPE OF THE WORK AS DEFINED HEREIN.
 - NO CONSIDERATION WILL BE GIVEN ANY CLAIM BASED ON LACK OF KNOWLEDGE OF EXISTING CONDITIONS, EXCEPT WHERE THE CONTRACT DOCUMENTS MAKE DEFINITE PROVISIONS FOR ADJUSTMENT OF COST OR EXTENSION OF TIME DUE TO EXISTING CONDITIONS THAT CANNOT BE READILY ASCERTAINED.
- B. CONSTRUCTION SEQUENCE:
- THE REMAINDER OF THE BUILDING WILL REMAIN OCCUPIED DURING CONSTRUCTION; HOWEVER, THE SPACE TO BE RENOVATED FOR NEW OFFICES WILL NOT BE OCCUPIED. THE CONTRACTOR SHALL AT ALL TIMES ENSURE THE PROTECTION OF THE EMPLOYEES, THEIR PROPERTY, AND VISITORS. THE OWNER SHALL HAVE THE AUTHORITY AND DISCRETION TO DIRECT THE CONTRACTOR TO STOP WORK IMMEDIATELY IF THE HEALTH AND/OR SAFETY OF THE EMPLOYEES, VISITORS, OR PROPERTY IS OR COULD BE ENDANGERED, OR IF THE WORK IS DISRUPTING COURT PROCEEDINGS.
 - THE CONTRACTOR SHALL CONFINED HIS OPERATIONS TO THE AREAS WHERE WORK IN THIS PROJECT IS REQUIRED, STORING MATERIALS ONLY IN AREAS TO BE DESIGNATED BY THE OWNER.
 - THE CONTRACTOR SHALL NOT CAUSE DAMAGE OR PERMIT CONDITIONS WHICH MAY CAUSE DAMAGE TO THE BUILDINGS, CONTENTS, FURNISHINGS, ETC. ALL COSTS ASSOCIATED WITH ANY SUCH DAMAGES WILL BE THE RESPONSIBILITY OF THE CONTRACTOR.
 - SHOULD DAMAGE OCCUR, THE CONTRACTOR SHALL RESTORE, AT HIS EXPENSE, ANY SUCH PROPERTY DAMAGE OR INJURIES BY HIS OPERATIONS TO A CONDITION EQUAL TO THAT EXISTING BEFORE SUCH DAMAGE OR INJURY WAS DONE, BY REPAIRING, REBUILDING OR OTHERWISE RESTORING AS MAY BE DIRECTED BY, AND TO THE SATISFACTION OF MACON-BIBB COUNTY.
 - IN CASE OF FAILURE ON THE PART OF THE CONTRACTOR TO RESTORE SUCH PROPERTY, OR MAKE GOOD SUCH DAMAGES OR INJURY, THE OWNER MAY, AFTER FORTY-EIGHT (48) HOURS WRITTEN NOTICE, PROCEED TO REPAIR, REBUILD, OR OTHERWISE RESTORE SUCH PROPERTY AS MAY BE DEEMED NECESSARY, AND THE COST THEREOF SHALL BE DEDUCTED FROM ANY MONIES DUE OR WHICH MAY BECOME DUE THE CONTRACTOR UNDER THIS CONTRACT.
 - THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL PREPARATION AS NECESSARY TO PROVIDE SUITABLE SURFACES FOR THE SPECIFIED WORK.
 - THE CONTRACTOR SHALL COOPERATE WITH MACON BIBB COUNTY WITH REGARD TO SCHEDULING OF WORK.
- C. UTILITIES AND FACILITIES:
- POWER AND WATER ARE AVAILABLE FOR THE CONTRACTOR'S USE.
 - TOILET FACILITIES: AT BEGINNING OF WORK, THE CONTRACTOR SHALL PROVIDE ON PREMISES, IN APPROVED LOCATIONS, ADEQUATE, TEMPORARY ENCLOSED TOILET AND WASHING FACILITIES FOR USE OF EMPLOYEES. FACILITIES SHALL BE MAINTAINED IN A CLEAN AND SANITARY CONDITION THROUGHOUT PERIOD OF PROJECT. EXISTING TOILET FACILITIES SHALL NOT BE USED BY EMPLOYEES OF THE CONTRACTOR OR THE SUBCONTRACTORS.

ROUGH CARPENTRY

- A. MATERIALS:
- MISCELLANEOUS LUMBER: BLOCKING, FURRING, AND OTHER MISCELLANEOUS LUMBER SPIB GRADE MARKED NO. 2 SOUTHERN YELLOW PINE, KILN-DRIED WITH MOISTURE CONTENT OF NOT MORE THAN 19% MOISTURE CONTENT.
 - FASTENERS:
(A) NAILS:
(1) FOR APPLICATION TO WOOD: ANNULAR THREAD, COATED STEEL, MEETING REQUIREMENTS OF FS FF-N-105, WHERE USED WITH TREATED LUMBER OR PLYWOOD NAILS SHALL BE HOT-DIPPED GALVANIZED; SIZES BEST SUITED FOR INTENDED USE. USE LARGE-HEAD ROOFING NAILS TO ATTACH INSULATING SHEATHING TO WOOD STUDS.
(2) FOR APPLICATION TO CONCRETE AND MASONRY: UNLESS OTHERWISE NOTED ON THE DRAWINGS SMOOTH SHANK, HARDEN STEEL COUNTER SUNK HEADS, MEETING REQUIREMENTS OF FS FF-N-105, WHERE USED WITH TREATED LUMBER OR PLYWOOD NAILS SHALL BE HOT-DIPPED GALVANIZED; SIZES AS BEST SUITED FOR INTENDED USE.
(B) BOLTS (LAG, TOGGLE, EXPANSION AND MISCELLANEOUS) AND SCREWS: TYPES, SIZES AND FINISHES BEST SUITED FOR INTENDED USE AND MEET FS FF-N-105; BOLT HEADS AND NUTS BEARING ON WOOD SHALL BE FIT WITH WASHERS.
 - GLUE: CS-35, TYPE 1, FULLY WATERPROOF.
- B. FABRICATION:
- ROUGH CARPENTRY: FABRICATE ALL BLOCKING, FURRING, AND OTHER ITEMS FROM LUMBER AS DESCRIBED HEREIN BEFORE AND TO THE DESIGNS REQUIRED BY THE DRAWINGS.

CABINETWORK

- A. SOLID WOOD:
- EXPOSED TO VIEW: AWI SECTION 100 GRADE 1, WHITE BIRCH, KILN-DRIED WITH MOISTURE CONTENT OF NOT MORE THAN 8%.
 - UNEXPOSED TO VIEW: AWI SECTION 100 GRADE 11, SOUTHERN YELLOW PINE, PLAIN CUT, KILN-DRIED WITH MOISTURE CONTENT OF NOT MORE THAN 11%.
- B. PLYWOOD: AWI SECTION 200, VENEER CORE GRADE A, WHITE BIRCH VENEER ON EXPOSED TO VIEW FACES.
- C. PLYWOOD UNDERLAYMENT: FOR SOLID SURFACE FABRICATIONS, AWI SECTION 200, BACKING GRADE, MILL OPTION FACE VENEERS.
- D. HARDWARE:
- HINGES: ONE OF THE FOLLOWING:
(A) CLIP-TOP PULL OVERLAY (120 DEG.) – JULIUS BLUM, INC., STANLEY, NC.
(B) 3803 (120 DEG.) – GRASS AMERICAN, INC., KERNERSVILLE, NC.
 - DRAWER GUIDES: ONE OF THE FOLLOWING:
(A) NO. 8417, SELF-CLOSING, FULL EXTENSION, MEDIUM DUTY – KNAPE & VOGT, GRAND RAPIDS, MI.
(B) MODEL 3132, SELF-CLOSING FULL-EXTENSION, MEDIUM DUTY – ACCURIDE INTERNATIONAL, SANTA FE SPRINGS, CA.
 - PULLS: EQUAL TO IVES 626, BRUSHED CHROME.
 - SHELF HARDWARE: EQUAL TO NO 255 STANDARDS WITH NO. 256 SUPPORTS, ZC FINISH – KNAPE & VOGT, GRAND RAPIDS, MI.
- E. FINISH: OPAQUE.

QUARTZ AND SOLID SURFACE FABRICATIONS

- A. QUARTZ: UP TO 93 PERCENT QUARTZ AGGREGATE COMBINED WITH POLYESTER RESIN BINDERS AND PROPRIETARY PIGMENTS THAT ARE FABRICATED INTO SLABS USING VACUUM VIBROCOMPACTION TECHNOLOGY, CORIAN OR EQUAL.
- B. SOLID SURFACE: EQUAL TO CORIAN.

STEEL FRAMES

- A. MATERIALS:
- WELDED METAL FRAMES: FABRICATED FROM COMMERCIAL GRADE COLD ROLLED STEEL CONFORMING TO ASTM A366, NOT LESS THAN 14 GAUGE, ZINC COATED.
 - METAL DRYWALL FRAMES: FABRICATED FROM COMMERCIAL GRADE COLD ROLLED STEEL CONFORMING TO ASTM 366 NOT LESS THAN 16 GAUGE.
- B. FABRICATION:
- WELDED METAL FRAMES:
(A) COMPLY WITH ANSI/SDI A250.8 AND SDI-100, "RECOMMENDED SPECIFICATIONS FOR STANDARD STEEL DOORS AND FRAMES".
(B) HARDWARE REINFORCEMENTS:
(1) FRAMES SHALL BE MORTISED, REINFORCED, DRILLED AND TAPPED AT THE FACTORY FOR FULLY TEMPLATED HARDWARE ONLY, IN ACCORDANCE WITH APPROVED HARDWARE SCHEDULE AND TEMPLATES PROVIDED BY THE CONTRACTOR.
(2) MIN. THICKNESS OF HARDWARE REINFORCING PLATES SHALL BE AS FOLLOWS:
 - HINGE AND PIVOT REINFORCEMENTS: 7 GAUGE, 1½" X 10 MIN. SIZE
 - STRIKE REINFORCEMENTS: 12 GAUGE
 - FLUSH BOLT REINFORCEMENTS: 12 GAUGE
 - REINFORCEMENTS FOR SURFACE MOUNTED HARDWARE: 12 GAUGE
 - FLOOR ANCHORS:
(1) FLOOR ANCHORS SHALL BE ADJUSTABLE 0 TO 1-3/8" WITH TWO HOLES PROVIDED AT EACH JAMB FOR FLOOR ANCHORAGE.
(2) MINIMUM THICKNESS OF FLOOR ANCHORS SHALL BE 14 GAUGE.
 - JAMB ANCHORS: FRAMES SHALL BE PROVIDED WITH ANCHORS, STANDARD WITH THE FRAME MANUFACTURER, FOR THE TYPE WALL CONSTRUCTION IN WHICH THEY ARE TO BE INSTALLED, NOT LESS THAN 16 GAUGE STEEL, AND IN THE NUMBERS AS FOLLOWS:
(1) FRAMES UNDER 7'-6" HEIGHT - 3 ANCHORS PER JAMB PLUS 1 BASE ANCHOR PER JAMB.
 - DOOR FRAME STOPS SHALL BE PUNCHED ON THE STRIKE SIDE TO RECEIVE RUBBER SILENCERS (3 PER FRAME FOR SINGLE DOORS AND 4 PER FRAME FOR DOUBLE DOORS).
 - LABEL FRAMES: COMPLY WITH NFPA 80 AND BEAR VISIBLE UL LABEL CALLED FOR ON THE DRAWINGS.
 - FACTORY PRIMING: AFTER MANUFACTURE, ALL TOOL MARKS AND SURFACE IMPERFECTIONS SHALL BE DRESSED, FILLED AND SANDED TO MAKE ALL SURFACES SMOOTH, LEVEL AND FREE OF ALL IRREGULARITIES AND THEN CHEMICALLY TREATED, TO INSURE MAXIMUM PAINT ADHESION, AND COATED WITH A RUST INHIBITIVE PRIMER, STANDARD WITH THE MANUFACTURER OF THE WELDED METAL FRAMES.
 - METAL DRYWALL FRAMES:
(A) COMPLY WITH ANSI/SDI A250.8 AND SDI-100, RECOMMENDED SPECIFICATIONS FOR STANDARD STEEL DOORS AND FRAMES".
(B) FRAMES SHALL BE KNOCK-DOWN TYPE, OF SIZES AND DESIGNS SHOWN ON THE DRAWINGS.
(C) ALL FRAMES SHALL BE FORMED WITH 5/8" DEPTH INTEGRAL STOPS, UNLESS DETAILED OTHERWISE ON DRAWINGS, AND RABBETS AND SHALL HAVE A DOUBLE RETURN ON THE BACK BEND TO ALLOW FRAME TO BE ERECTED AFTER WALL IS IN PLACE AND SHALL BE DESIGNED SO AS TO GRIP WALL FIRMLY.
(D) CORNERS SHALL BE MITTERED AND REINFORCED AND LOCKED WITH SHEET METAL SCREWS ON THE HEADBAR RETURN TO INSURE POSITIVE LOCKING AND RIGID CORNERS.

HARDWARE REINFORCEMENTS:

- FRAMES SHALL BE MORTISED, REINFORCED, DRILLED AND TAPPED AT THE FACTORY FOR FULLY TEMPLATED HARDWARE ONLY, IN ACCORDANCE WITH APPROVED HARDWARE SCHEDULE AND TEMPLATES PROVIDED BY THE CONTRACTOR.
 - MINIMUM THICKNESS OF HARDWARE REINFORCING PLATES SHALL BE AS FOLLOWS:
 - HINGE: 7 GAUGE
 - STRIKE: 10 GAUGE
 - FLUSH BOLT: 12 GAUGE
 - CLOSER: 12 GAUGE
 - SURFACE MOUNTED HARDWARE: 12 GAUGE
 - JAMBS SHALL BE FURTHER STRENGTHENED BY TWO HEAVY GAUGE STIFFENERS TO PROVIDE PROPER GRIPPING ACTION AND BEARING SURFACE AGAINST THE WALL.
 - ANCHORS (JAMB, SILL) SHALL BE MANUFACTURER'S STANDARD; SILL ANCHORS SHALL REQUIRE NO NOTCHING OF WALLBOARD.
 - EACH DOOR FRAME STOP SHALL BE PUNCHED ON THE STRIKE SIDE TO RECEIVE RUBBER SILENCERS (3 PER FRAME FOR SINGLE DOORS AND 4 PER FRAME FOR DOUBLE DOORS).
 - FACTORY PRIMING: AFTER MANUFACTURED ALL TOOL MARKS AND SURFACE IMPERFECTIONS SHALL BE DRESSED, FILLED AND SANDED TO MAKE ALL SURFACES SMOOTH, LEVEL AND FREE OF ALL IRREGULARITIES AND THEN CHEMICALLY TREATED, TO INSURE MAXIMUM PAINT ADHESION, AND COATED WITH A RUST-INHIBITIVE PRIMER, STANDARD WITH THE MANUFACTURER OF THE DRYWALL METAL FRAMES.
- C. INSTALLATION:
- FRAMES: INSTALL IN PREPARED OPENINGS, IN LOCATIONS SHOWN ON THE DRAWINGS, TRUE TO LINE, LEVEL AND PLUMB, AND IN ACCORDANCE WITH THEIR MANUFACTURER'S DETAILS AND INSTRUCTIONS.
(A) LABEL FRAMES: WELDED, COMPLY WITH NFPA 80.

SOLID CORE FLUSH WOOD DOORS

- A. MATERIALS:
- BASIS OF DESIGN: ARCHITECTURAL "ASPIRO" SERIES WOOD DOORS AS MANUFACTURED BY MARSHFIELD-ALGOMA DOOR SYSTEMS / MARSHFIELD, WI.
(A) PRODUCT INFORMATION IS LISTED FOR REFERENCE PURPOSES TO ESTABLISH MATERIAL CHARACTERISTICS, QUALITY, AND FINISH. ALTERNATE MANUFACTURER'S PRODUCTS SHALL MEET OR EXCEED THE LISTED PRODUCTS.
 - DOOR CONSTRUCTION:
(A) WORKMANSHIP: COMPLY WITH WDMA PREMIUM GRADE.
(B) PERFORMANCE STANDARDS: COMPLY WITH WDMA I.S. 1A HEAVY DUTY PERFORMANCE LEVEL.
(C) FACE VENEERS: 5-PLY, SELECT WHITE BIRCH.
(1) NON-LABEL DOORS: PARTICLE-BONDED CORE, GRADE LO-2 (AWI SECT. 1300 PC-5).
(D) VERTICAL EDGES: AWI SECTION 1300-S-4, PREMIUM GRADE, TO MATCH FACE VENEER.
(E) TOP AND BOTTOM EDGES: MANUFACTURER'S STANDARD MILL OPTION HARDWOOD.
(F) CROSS BANDS: MIN. 1/16-HIGH DENSITY HARDBOARD.
(G) ADHESIVE: PER WDMA TM-6.
(H) GLAZING: FACTORY-GLAZING, 1/4-INCH TEMPERED GLASS, WOOD STOPS.
- B. FABRICATION:
- NON-LABELED DOORS: MANUFACTURE TO THE DESIGNS SHOWN ON THE DRAWINGS, IN ACCORDANCE WITH AWI SECTION 1300, PREMIUM GRADE, TRANSPARENT FACTORY FINISH.
 - LABELED DOORS: MANUFACTURE TO THE DEIGNS SHOWN ON THE DRAWINGS, IN ACCORDANCE WITH AWI SECTION 1300, MEETING TEST REQUIREMENTS OF ASTM E 152, PREMIUM GRADE, TRANSPARENT OR OPAQUE FINISH (AS SCHEDULED) AND BEAR UL LABEL FOR RATING CALLED FOR ON THE DRAWINGS.
(A) FIRE-RATED DOORS SHALL HAVE APPROPRIATE FIRE-LABELS ATTACHED TO DOORS.
 - FACTORY MACHINE DOORS FOR HARDWARE THAT IS NOT SURFACE APPLIED, COMPLY WITH FINAL HARDWARE SCHEDULES, DOOR FRAME SHOP DRAWINGS, AND HARDWARE TEMPLATES.
- C. FACTORY-FINISH TO MEET OR EXCEED WDMA I.S. IA TR-6.
- TRANSPARENT FINISH:
(A) STAINING: FACTORY FINISH TO BE SELECTED BY ARCHITECT.
(B) FINISH: WDMA TR-6 CATALYZED POLYURETHANE.

FINISH HARDWARE

- A. LOCKSET DESIGN: SCHLAGE, LEVER HANDLES.
- B. FINISHES: FINISH TO MATCH EXISTING DOOR HARDWARE.
- C. INCLUDE A NET RELEASE AMOUNT OF FIFTEEN THOUSAND DOLLARS (\$15,000) FOR FINISH HARDWARE MATERIALS; DOES NOT INCLUDE LABOR COSTS.
- D. FURNISH AND INSTALL PASSAGE SETS, LOCK SETS, PRIVACY SETS, PUSH/PULL PLATES, HINGES, CLOSERS, LOCKSET, AND STOPS, AS REQUIRED.

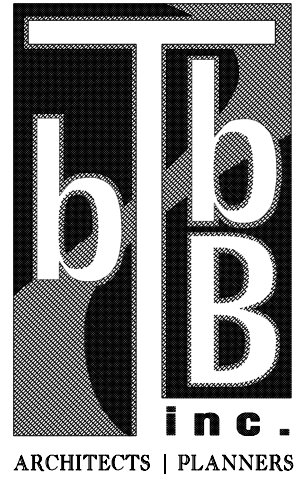
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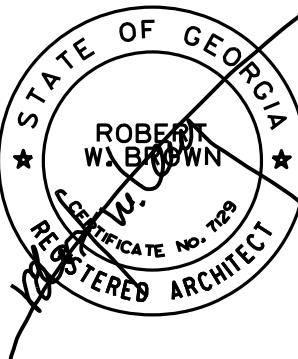
GYPSUM BOARD SYSTEMS

- A. METAL STUDS: CHANNEL TYPE, ROLL FORMED FROM GALVANIZED STEEL, DESIGNED FOR SCREW ATTACHMENT OF GYPSUM WALLBOARD OF SIZES REQUIRED BY THE DRAWINGS AND OF GAUGES REQUIRED BY STUD SIZE, HEIGHT AND SPACING SHOWN ON THE DRAWINGS, BUT IN NO CASE LESS THAN 20 GAUGE; ALLOWABLE DEFLECTION L/360; STUDS TO HAVE 1¼-INCH DIAMETER SERVICE HOLE, 8 INCHES FROM END.
- B. METAL RUNNERS (FLOOR AND CEILING TRACK): GALVANIZED STEEL, IN WIDTH AND OF GAUGE OF STUDS WITH WHICH USED, 1¼-INCH UNHELMED LEGS.
- C. METAL FURRING CHANNELS: 16 GAUGE COLD ROLLED STEEL, "C" SHAPE, OF SIZES REQUIRED BY THE DRAWINGS OR DESCRIBED HEREINAFTER
- D. METAL SCREW FURRING CHANNELS: 2¼" X 7/8" X 1-3/8" FACE WIDTH, GALVANIZED STEEL, WEIGHING NOT LESS THAN 292 LBS/MLF.
- E. FURRING CHANNEL CLIPS: GALVANIZED WIRE, MANUFACTURER'S STANDARD, ESPECIALLY DESIGNED FOR ATTACHING SCREW FURRING CHANNELS TO 1½-INCH FURRING CHANNELS.
- F. HANGER WIRE: 9 GAUGE, GALVANIZED.
- G. GYPSUM WALLBOARD:
- FIRE RATED: 5/8 INCH THICK, TAPERED EDGE, MEETING REQUIREMENTS OF ASTM C38 FOR TYPE "X" PANELS AND FIRE ENDURANCE TEST AS OUTLINED IN ASTM C-473.
- H. FASTENERS:
- FOR ATTACHING GYPSUM WALLBOARD TO WOOD FRAMING, FASTENERS SHALL BE 1¼-INCHES TYPE W COARSE THREAD WALLBOARD NAIL, CEMENT COATED.
 - FOR ATTACHING GYPSUM WALLBOARD TO METAL FRAMING, FASTENERS SHALL BE 1-7/8 INCHES, TYPE S, BUGLE HEAD SCREWS, CADMIUM PLATED.
 - FOR ATTACHING SCREW FURRING CHANNELS TO 1½-INCH FURRING CHANNELS, FASTENERS SHALL BE MANUFACTURER'S STANDARD FURRING CHANNEL CLIP.
 - FOR ATTACHING METAL RUNNERS AND SCREW FURRING CHANNELS TO CONCRETE OR MASONRY SHALL BE POWER ACTUATED TYPE CAPABLE OF WITHSTANDING 192 POUNDS OF SINGLE SHEAR AND 200 POUNDS BEARING FORCE WITHOUT EXCEEDING ALLOWABLE STRESS DESIGN OF FASTENER OR MEMBER BEING FASTENED.
 - FOR ATTACHING FRAMING MEMBERS TOGETHER SHALL BE TYPE S, PAN-HEAD SCREWS IN SIZES RECOMMENDED BY THE METAL STUD MANUFACTURER FOR APPLICATIONS REQUIRED.
 - FOR ATTACHING METAL RUNNERS TO STRUCTURAL STEEL SHALL BE POWER ACTUATED TYPE AS RECOMMENDED BY THE METAL STUD MANUFACTURER FOR APPLICATIONS REQUIRED.
- I. ACCESSORIES:
- OUTSIDE CORNER BEAD: ALL METAL, HOT-DIPPED GALVANIZED, 1" X 1" AND WEIGHING NOT LESS THAN 114 POUNDS PER MLF.
 - CASING BEAD: ALL METAL, HOT-DIPPED GALVANIZED, 7/8 INCH FLANGE, "C" SHAPED, CAPABLE OF BEING TAPED AND FINISHED AND WEIGHING NOT LESS THAN 165 POUNDS PER MLF.
 - INSIDE CORNER REINFORCEMENT: PERFORATED FIBER TAPE WITH CHAMFERED WAFER-THIN EDGES, 2-1/16 INCHES WIDE AND MEETING ASTM C475.
- J. TAPE: PERFORATED FIBER TAPE WITH CHAMFERED WAFER-THIN EDGES, 2-1/16" WIDE AND MEETING ASTM C475.
- K. JOINT COMPOUND: READY-MIXED COMPOUND, MEETING ASTM C475.
- L. SEALANT: ACRYLIC LATEX, GUN-GRADE, PAINTABLE.
- M. SOUND ATTENUATION BLANKETS:
- WALLS: EQUAL TO OWEN CORNING SOUND ATTENUATION BATTS, MEETING ASTM C 665, TYPE I AND ASTM E 136, UNFACED, FLAME SPREAD 10, SMOKE DEVELOPED 10, 3½" THICK.

- N. INSTALLATION:
- INSTALLATION OF METAL RUNNERS (FLOOR AND CEILING TRACKS):
(A) ATTACH FLOOR RUNNERS WITH SPECIFIED FASTENERS SPACED NOT LESS THAN 24" O.C.
(B) ATTACH CEILING RUNNERS WITH THE SPECIFIED FASTENERS AT NOT LESS THAN 24" O.C. AND IN CONFORMANCE WITH THE DETAILS SHOWN ON THE DRAWINGS.
 - INSTALLATION OF METAL STUDS:
(A) POSITION FULL LENGTH STUDS VERTICALLY, SPACES AS SHOWN ON THE DRAWINGS ENGAGING FLOOR AND CEILING TRACKS. ATTACH WITH SPECIFIED FASTENERS.
(B) IN GENERAL STUDS SHALL BE SPACED AT 16" O.C.
(C) PROVIDE DOUBLE STUDS AT INTERIOR AND EXTERIOR CORNERS, EXPANSION JOINTS, PARTITION TERMINATIONS AND WITHIN 2" OF DOOR AND BORROWED LITE OPENINGS IN PARTITIONS. LOCATE NEXT STUD NOT MORE THAN 6" FROM DOUBLE STUDS.
(D) SECURE ABUTTING AND INTERSECTING WALLS WITH FASTENERS THROUGH STUD FLANGES.
(E) FOR HORIZONTAL REINFORCEMENT BETWEEN STUDS AND AT DOOR AND BORROWED LITE FRAMES, INSTALL CUT-TO-LENGTH RUNNER SECTIONS WITH SLIT FLANGES SECURED TO STUDS.



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RENOVATIONS FOR
MBC CODE ENFORCEMENT OFFICES
2ND FLOOR / CITY HALL
CORNER FIRST & POPLAR ST. MACON, GA

Drawing Issue Schedule	
2-14-2025	Permit Set
Project No:	2024-34

Drawing
Specifications

G1.3

3.

INSTALLATION OF SOUND ATTENUATION BLANKETS: INSTALL IN ALL METAL STUD WALLS, FULL HEIGHT OF PARTITION.
4.

INSTALLATION OF GYPSUM WALLBOARD:

(A)

INSTALL WALLBOARD IN ACCORDANCE WITH MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS, EXCEPT WHERE MORE STRINGENT REQUIREMENTS ARE SPECIFIED.

(B)

USE WALLBOARD OF MAXIMUM LENGTHS TO MINIMIZE END JOINTS.

(C)

STAGGER END JOINTS WHEN THEY OCCUR.

(D)

ABUT WALLBOARDS WITHOUT FORCING. FIT ENDS AND EDGES OF WALLBOARD. DO NOT PLACE BUTT ENDS AGAINST TAPERED EDGES.

(E)

SUPPORT END AND EDGES OF WALLBOARD PANELS ON FRAMING OR FURRING MEMBERS.

(F)

AT CEILINGS, APPLY WALLBOARD WITH LONG DIMENSION AT RIGHT ANGLES TO FRAMING.

(G)

AT WALLS AND COLUMNS, APPLY WALLBOARD HORIZONTALLY, ATTACHING UPPER BOARD FIRST; STAGGER END JOINTS ON OPPOSITE SIDES OF PARTITIONS.

(H)

FASTEN WALLBOARD TO FRAMING MEMBERS, USING THE SPECIFIED FASTENERS SPACED AS RECOMMENDED BY THE MANUFACTURER OF THE WALLBOARD BEING INSTALLED FOR THE SPECIFIC INSTALLATION.

(I)

ALL GYPSUM BOARD SHALL BE 5/8" TYPE "X" GYPSUM BOARD EXCEPT AT NEW RESTROOM WALLS.
5.

INSTALLATION OF ACCESSORIES:

(A)

INSTALL CORNER BEADS AT ALL OUTSIDE CORNERS.

(B)

INSTALL METAL CASING BEADS AT EXPOSED EDGES OF WALLBOARD AT DOOR AND WINDOW OPENINGS, AT INTERSECTIONS WITH OTHER MATERIALS AND AT OTHER LOCATION SHOWN ON THE DRAWINGS.
6.

INSTALLATION OF SEALANT: CAULK ALL PERIMETER JOINTS, ELECTRICAL BOXES AND PENETRATIONS WITH SPECIFIED SEALANT.
- O.

JOINT TREATMENT:

1.

TAPING OR EMBEDDING JOINTS:

(A)

APPLY COMPOUND TO THIS UNIFORM LAYER TO ALL JOINTS AND ANGLES. CENTER TAPE OVER JOINT AND SET TAPE INTO COMPOUND; LEAVE APPROXIMATELY 1/16 INCH TO 1/32-INCH COMPOUND UNDER TAPE TO PROVIDE BOND.

(B)

APPLY SKIM COAT FOLLOWING TAPE EMBEDMENT, BUT NOT TO FUNCTION AS FILL OR SECOND COAT; FOLD TAPE AND EMBED IN ANGLES TO PROVIDE TRUE ANGLE. DRY EMBEDDING COAT PRIOR TO APPLICATION OF FILL COAT.

2.

FILLING:

(A)

APPLY JOINT COMPOUND OVER EMBEDDING COAT TO COVER TAPE. FEATHER OUT FILL COAT BEYOND TAPE AND PREVIOUS JOINT COMPOUND LINE.

(B)

DO NOT APPLY FILL COAT ON INTERIOR ANGLES.

(C)

ALLOW FILL COAT TO DRY PRIOR TO APPLICATION OF FINISH COAT.

3.

SMOOTH FINISH: TYPICAL WALL FINISH.

(A)

SPREAD JOINT COMPOUND OVER AND BEYOND FILL COAT ON ALL JOINTS. FEATHER TO SMOOTH UNIFORM FINISH.

(B)

APPLY FINISH COAT TO TAPED ANGLES TO COVER TAPE AND TAPING COMPOUND.

(C)

SAND FINAL APPLICATION OF COMPOUND TO PROVIDE SMOOTH SURFACE READY.

4.

FINISHING BEADS AND TRIM:

(A)

FIRST FILL COAT: APPLY JOINT COMPOUND TO BEADS AND TRIM. FEATHER OUT FROM GROUND TO PLANE OF THE SURFACE; DRY COMPOUND PRIOR TO APPLICATION OF SECOND FILL COATS.

(B)

SECOND FILL COAT: APPLY JOINT COMPOUND IN SAME MANNER AS FIRST FILL COAT. EXTEND BEYOND FIRST COAT ONTO FACE OF WALLBOARD; DRY COMPOUND PRIOR TO APPLICATION OF FINISH COAT.

(C)

FINISH COAT: APPLY JOINT COMPOUND TO BEAD AND TRIM; EXTEND BEYOND SECOND FILL COAT; FEATHER FINISH COAT FROM GROUND TO PLANE OF SURFACE; SAND FINISH COAT TO PROVIDE FLAT SURFACE READY FOR DECORATION.

5.

FILLING AND FINISHING DEPRESSIONS:

(A)

APPLY JOINT COMPOUND AS FIRST COAT TO FASTENER DEPRESSIONS; APPLY AT LEAST TWO (2) ADDITIONAL COATS OF COMPOUND AFTER FIRST COAT IS DRY.

(B)

LEAVE FILLING AND FINISHED DEPRESSIONS LEVEL WITH PLANE OF WALLBOARD.

6.

FINISH LEVELS: WALLS – LEVEL 4

SUSPENDED ACOUSTICAL TILE CEILINGS

- A.

ACOUSTICAL TILE EQUAL TO ARMSTRONG CIRRUS LAY-IN WITH PRELUDE 15/16" EXPOSED TEE SYSTEM – WHITE.
- B.

SOUND ATTENUATION BLANKETS: EQUAL TO OWENS CORNING "SONO BATTS", UNFACED GLASS FIBER INSULATION, MEETING ASTM C665, TYPE 1 AND ASTM E136, FLAME SPREAD 10, SMOKE DEVELOPED 10, 3¼" THICK. INSTALL ABOVE ALL NEW ACOUSTICAL TILE CEILINGS.
- C.

HANGER WIRE: 12 GAUGE, GALVANIZED.
- D.

DIRECT LOAD CEILING CLIP: MANUFACTURER'S STANDARD.
- E.

TILE MARKERS/ADHESIVE:

1.

ROSETTES: 2" DIAMETER X 1/16" THICK ALUMINUM WITH WHITE BAKED ENAMEL FINISH.

2.

ADHESIVE: EPOXY COMPATIBLE WITH CEILING TILE WITH WHICH USED.

RESILIENT FLOORING

- A.

TESTS: PERFORM TESTS AS FOLLOWS. RESULTS SHALL BE SUBMITTED TO THE MANUFACTURER TO DETERMINE THE APPROPRIATE ADHESIVES AND ASSURE COMPLIANCE WITH THE MANUFACTURER'S WARRANTIES FOR FLOORCOVERING PRODUCTS.

1.

MOISTURE TESTING: PERFORM TESTS RECOMMENDED BY MANUFACTURER. PROCEED WITH INSTALLATION ONLY AFTER SUBSTRATES PASS TESTING.

(A)

PERFORM ANHYDROUS CALCIUM CHLORIDE TEST, ASTM F 1869. RESULTS MUST NOT EXCEED 5-LBS. MOISTURE VAPOR EMISSION RATE PER 1,000 SQ. T. IN 24-HOURS.

(1)

SPECIAL NOTE: IF MVER IS GREATER THAN 5-LBS. BUT LESS THAN 8 LBS., SEE REQUIREMENTS FOR TARKETT SPRAYSMART ADHESIVE OR AS RECOMMENDED BY THE FLOORING MANUFACTURER.

(B)

PERFORM RELATIVE HUMIDITY (RH) TEST USING IN-SITU PROBES, ASTM F 2170. RESULTS MUST NOT EXCEED 80%.

(1)

SPECIAL NOTE: IF RH IS GREATER THAN 80% BUT LESS THAN 90% SEE REQUIREMENTS FOR TARKETT SPRAYSMART ADHESIVE OR AS RECOMMENDED BY THE FLOOR MANUFACTURER.

2.

A PH TEST FOR ALKALINITY MUST BE CONDUCTED. RESULTS SHOULD RANGE BETWEEN 7 AND 9. IF THE TEST RESULTS ARE NOT WITHIN THE ACCEPTABLE RAGE OF 7 TO 9, THE INSTALLATION MUST NOT PROCEED UNTIL THE PROBLEM HAS BEEN CORRECTED.

(A)

SPECIAL NOTE: IF PH READING EXCEED 9 BUT LESS THAN 11 SEE REQUIREMENTS FOR TARKETT SPRAYSMART ADHESIVE OR AS RECOMMENDED BY THE FLOORING MANUFACTURER.

3.

ALKALINITY AND ADHESION TESTING: PERFORM TESTS RECOMMENDED BY MANUFACTURER.

B.

LUXURY VINYL TILE (LVT): EQUAL TO SHAW CONTRACT "TERRAIN II" SERIES, 20 MIL, 6" X 48", MEETING ASTM F1700, CLASS III, TYPE B; 10-YEAR COMMERCIAL WARRANTY.

C.

RESILIENT BASE: SET-ON COVE TYPE, 4" HIGH X 1/8" THICK, OF HOMOGENEOUS VINYL AND CONFORMING TO FF SS-W-40A, TYPE II WITH OUTSIDE CORNERS. COLOR SELECTIONS WILL BE SELECTED TO COORDINATE WITH TILE SELECTIONS.

D.

ADHESIVE:

1.

ONLY THAT RECOMMENDED BY THE MANUFACTURER OF MATERIAL BEING INSTALLED FOR THE SPECIFIC PROJECT CONDITIONS. ADHESIVES SHALL HAVE VOC CONTENT OF 25 G/L OR LESS.

FIBERGLASS REINFORCED PLASTIC (FRP) PANELS

A.

BASIS OF DESIGN: STRUCTOGLAS FLAT FIBERGLASS REINFORCED PLASTIC COMPOSITE (FRP) PANELS AS MANUFACTURED BY CRANE COMPOSITES, INC.

B.

FRP PANELS:

1.

RATING: SURFACE BURNING CLASSIFICATION: CLASS A; FLAMESPREAD (ASTM E84) - 25 OR LESS; SMOKE DEVELOPED (ASTM E84) - 450 OR LESS.

2.

FINISH, THICKNESS: SMOOTH 0.09 INCH.

3.

DIMENSIONAL TOLERANCES

(A)

WIDTH AND LENGTH: 1/8-INCH (3.2 MM).

(B)

THICKNESS: +/- 10%

(C)

SQUARENESS: NOT MORE THAN 1/8-INCH (3.2 MM) OUT OF SQUARE.

4.

PERFORMANCE PROPERTIES:

(A)

MEETS USDA/FSIS REQUIREMENTS.

(B)

BARCOL HARDNESS (ASTM D2583): 20-30

5.

ACCESSORIES: MOULDING, TRIM, ETC., AS REQUIRED FOR COMPLETE FINISHED INSTALLATION; MATCH PANEL COLOR.

PAINTING

A.

THE USE OF MANUFACTURER'S NAMES AND PRODUCTS ARE FOR REFERENCE ONLY TO INDICATE CHARACTERISTICS OF THE MATERIAL AND THE FINISHED REQUIRED. ACCEPTABLE MANUFACTURERS INCLUDE:

BENJAMIN MOORE

BM

PLATT & LAMBERT

PL

PPG PAINTS

PPG

SHERWIN WILLIAMS

SW

B.

INTERIOR PAINTING: INTERIOR GREEN SEAL STANDARD GS-11 ARCHITECTURAL PAINTS:

FLATS:

50 g/L

NON-FLATS:

100 g/L

COATINGS AND PRIMERS

100 g/L

1.

WOOD

(A)

PRIMER, ACRYLIC BONDING STAIN-KILLER PRIMER/SEALER ONE COAT:

BM

FRESH START® ALL-PURPOSE 100% ACRYLIC PRIMER 023

PL

P1001 INT EXT PRIMER MULTI PURPOSE

PPG

17-921XI SEAL GRIP ACRYLIC PRIMER

SW

PREP RITE PRO BLOCK B51620

(B)

FINISH - LATEX SEMI GLOSS TWO COATS:

BM

539 ULTRA SPEC SG

PL

Z8380 PRO HIDE SG

PPG

6-500 SPEEDHIDE S/G INTERIOR LATEX ENAMEL

SW

PROMAR 200 ZERO VOC SG B31W02651

2.

GYPSUM BOARD/PLASTER (PREVIOUSLY PAINTED)

(A)

PRIMER, ACRYLIC BONDING STAIN-KILLER PRIMER/SEALER ONE COAT:

BM

023 FRESH START® ALL-PURPOSE 100% ACRYLIC PRIMER

PL

Z6650 STEELTECH® ACRYLIC PRIME OR FINISH

PPG

17-921XI SEAL GRIP ACRYLIC PRIMER

SW

MULTIPURPOSE PRIMER SEALER B51W0453

(B)

FINISH, CEILINGS, LATEX FLAT TWO COATS:

BM

MOORCRAFT SUPER HIDE® LATEX FLAT 282

PL

REDSEAL® PORCELAIN™ INTERIOR FLAT ACRYLIC LATEX WALL COATING - Z3700/F3700

PPG

6-70 SPEEDHIDE INTERIOR FLAT LATEX

SW

PROMAR 200 ZERO VOC FLAT B30W02651

(C)

FINISH, WALLS, LATEX EGGSHELL: TWO COATS:

BM

MOORCRAFT SUPER HIDE® LATEX EGGSHELL ENAMEL C286

PL

Z8290 PRO-HIDE® GOLD INTERIOR LATEX EGGSHELL

PPG

6-411 SPEEDHIDE INTERIOR LATEX EGGSHELL

SW

PROMAR 200 ZERO VOC EGGSHELL B20W02651

3.

GYPSUM BOARD, NEW

(A)

PRIMER, LATEX PVA ONE COAT:

BM

534 ULTRA SPEC 500 PRIME

PL

P1000 DRYWALL PRIMER

PPG

6-2 SPEEDHIDE INTERIOR LATEX PRIMER SEALER

SW

PRO MAR 200 PRIMER B28W260

(B)

FINISH, CEILINGS, LATEX FLAT TWO COATS:

BM

536 ULTRA SPEC 500 FLAT

PL

Z8180 PRO HIDE FLAT

PPG

6-70 SPEEDHIDE INTERIOR FLAT LATEX

SW

PRO MAR ZERO VOC FLAT B30W2600

(C)

FINISH, WALLS, ACRYLIC EGGSHELL: TWO COATS:

BM

538 ULTRA SPEC 500 EGGSHELL

PL

Z8290 PRO-HIDE® GOLD INTERIOR LATEX EGGSHELL

PPG

6-411 SPEEDHIDE INTERIOR LATEX EGGSHELL

SW

PRO MAR 200 ZERO VOC ES LOW SHEEN B24W2600

4.

MASONRY

(A)

PRIMER, ACRYLIC MASONRY BONDING PRIMER ONE COAT:

BM

MOORE'S® HIGH BUILD ACRYLIC MASONRY PRIMER 068

PL

Z6300 PRO-HIDE® GOLD INTERIOR/EXTERIOR ACRYLIC CONCRETE & STUCCO PRIMER FINISH – FLAT ACRYLIC LATEX

PPG

4-603XI PERMACRETE HI ALKALI LATEX PRIMER

SW

LOXON PRIMER A24W300

(B)

FINISH, LATEX SEMI-GLOSS TWO COATS:

BM

N33 REGAL® SEMI-GLOSS FINISH

PL

Z2400 REDSEAL® INTERIOR LATEX SEMI-GLOSS

PPG

6-500 SPEEDHIDE S/G INTERIOR LATEX ENAMEL

SW

PRO MAR 200 ZERO VOC SG B31W02651

SIGNAGE

A.

INTERIOR SIGNAGE:

1.

RESTROOM SIGNAGE: DESIGN IS BASED ON ADA APPROVED, 8" X 6" X 1/8" THICK, INJECTED ACRYLIC MOLDED PLAQUES, WITH INTEGRAL FRAME. SIGN TO CONTAIN THE WORD "MEN" OR "WOMEN", OR "UNISEX", MALE OR FEMALE OR UNISEX PICTOGRAM (AS APPLICABLE) AND GRADE 2 BRAILLE. LETTERS SHALL BE A MINIMUM 5/8" HIGH INTEGRAL COPY, RAISED 1/32". LETTERS AND PICTOGRAMS SHALL BE OF SAME COLOR ON CONTRASTING BACKGROUND. SIGNS SHALL BE MOUNTED WITH (VHB) VERY HIGH BOND TAPE FASTENED TO BACK OF PLAQUE.

2.

EXIT SIGNAGE: ADA APPROVED, 1/8" THICK, INJECTED ACRYLIC MOLDED PLAQUES, WITH INTEGRAL FRAME. SIGN TO CONTAIN THE WORD "EXIT", A HANDICAP PICTOGRAM (ACCESSIBLE EXITS ONLY), AND GRADE 2 BRAILLE. LETTERS SHALL BE A MINIMUM 5/8" HIGH INTEGRAL COPY, RAISED 1/32". LETTERS AND PICTOGRAMS SHALL BE OF SAME COLOR ON CONTRASTING BACKGROUND.

3.

OTHER INTERIOR SIGNAGE: INCLUDE AN ALLOWANCE OF FIVE THOUSAND DOLLARS (\$5,000) TO FURNISH AND INSTALL OTHER INTERIOR SIGNAGE OTHER THAN RESTROOM AND EXIT SIGNS DESCRIBED HEREIN.

FIRE EXTINGUISHERS

A.

TYPE 1 EXTINGUISHER (SEMI-RECESSED CABINET):

1.

RATING: 4A-80 BC

2.

TYPE: MULTIPURPOSE DRY CHEMICAL (AMMONIUM PHOSPHATE)

3.

MANUFACTURERS AND MODELS: ONE OF THE FOLLOWING:

(A)

COSMIC, MODEL 10E AS MANUFACTURED BY J.L. INDUSTRIES, BLOOMINGTON MN.

(B)

MP10 AS MANUFACTURED BY LARSEN'S MANUFACTURING COMPANY, MINNEAPOLIS, MN.

(C)

FIGURE NO. 3010 AS MANUFACTURED BY POTTER-ROEMER, CERRITOS, CA.

B.

TYPE 2 EXTINGUISHER (WALL BRACKET):

1.

RATING: 6A-120BC

2.

TYPE: MULTIPURPOSE DRY CHEMICAL (AMMONIUM PHOSPHATE)

3.

MANUFACTURERS AND MODELS: ONE OF THE FOLLOWING:

(A)

COSMIC, MODEL 20E AS MANUFACTURED BY J.L. INDUSTRIES, BLOOMINGTON, MN.

(B)

MP20 AS MANUFACTURED BY LARSEN'S MANUFACTURING COMPANY, MINNEAPOLIS, MN.

C.

FIRE EXTINGUISHER CABINETS: SEMI-RECESSED CABINETS EQUAL TO AMBASSADOR SERIES NO. 1017 WITH F10 FULL ACRYLIC DOOR AS MANUFACTURED BY J.L. INDUSTRIES, BLOOMINGTON, MN.

D.

WALL MOUNTING BRACKETS: STANDARD WITH MANUFACTURER OF FIRE EXTINGUISHERS FOR THE SPECIFIED TYPE OF EXTINGUISHER, BLACK ENAMEL FACTORY FINISH.

FIRE STOPPING

A.

FIRESTOPPING MATERIALS SHALL CONFORM TO FLAME (F) AND TEMPERATURE (T) RATINGS AS REQUIRED BY LOCAL BUILDING CODE AND AS TESTED BY NATIONALLY ACCEPTED TEST AGENCIES PER ASTM 814, UL 1479 OR UL 2079. THE (F) RATING MUST BE A MINIMUM OF ONE(1) HOUR BUT LESS THAN THE FIRE RESISTANCE RATING OF THE ASSEMBLY BEING PENETRATED. (T) RATING, WHEN REQUIRED BY CODE AUTHORITY, SHALL BE BASED ON THE MEASUREMENT OF THE TEMPERATURE RISE ON THE PENETRATING ITEMS. THE FIRE TEST PRESSURE DIFFERENTIAL OF A MINIMUM 0.01 INCHES OF WATER COLUMN IS REQUIRED.

B.

ACCEPTABLE MANUFACTURERS:

1.

THE RECTORSEAL CORP.

2.

INTERNATIONAL PROTECTIVE COATINGS

3.

3M COMPANY

4.

HILTI

C.

MATERIALS:

1.

FIRESTOP MORTARS:

(A)

METACAULK FIRE RATED MORTAR BY THE RECTORSEAL CORP.

(B)

KBS MORTAR BY INTERNATIONAL PROTECTIVE COATINGS.

2.

FIRESTOP SEALANTS AND CAULKS:

(A)

METACAULK 950 BY THE RECTORSEAL CORP.

(B)

METACAULK 835 BY THE RECTORSEAL CORP.

(C)

METACAULK 805 BY THE RECTORSEAL CORP.

(D)

METACAULK 1000 BY THE RECTORSEAL CORP.

(E)

CP 25WB+CAULK BY 3M

(F)

FLAME-SAFE F5900 SERIES BY INTERNATIONAL PROTECTIVE COATINGS.

3.

FIRESTOP PUTTY:

(A)

METACAULK FIRE RATED PUTTY BY THE RECTORSEAL CORP.

(B)

METACAULK FIRE RATED PUTTY PADS BY THE RECTORSEAL CORP.

(C)

MPS-2 MOLDABLE PUTTY STIX BY 3M

(D)

MPP-4S MOLDABLE PUTTY PADS BY 3M

4.

FIRESTOP SLEEVES:

(A)

METACAULK PIPE COLLARS BY THE RECTORSEAL CORP.

(B)

PLASTIC PIPE DEVICES BY 3M

(C)

PLASTIC PIPE COLLARS BY INTERNATIONAL PROTECTIVE COATINGS

5.

INTUMESCENT WRAP STRIPS:

(A)

METACAULK WRAP STRIP BY THE RECTORSEAL CORP.

(B)

FS-195 WRAP STRIP BY 3M

(C)

WRAP STRIP BY INTERNATIONAL PROTECTIVE COATINGS

6.

FIRESTOP MASTIC:

(A)

METACAULK 1100 BY THE RECTORSEAL CORP.

(B)

FIRESTOP MASTIC BY 3M.

(C)

FIRESTOP MASTIC BY INTERNATIONAL PROTECTIVE COATINGS

D.

CONDITIONS REQUIRING FIRESTOPPING

1.

GENERAL:

(A)

PROVIDE FIRE STOPPING FOR CONDITIONS SPECIFIED WHETHER OR NOT FIRESTOPPING IS INDICATED, AND, IF INDICATED, WHETHER SUCH MATERIAL IS DESIGNATED AS INSULATION, SAFING OR OTHERWISE.

(B)

INSULATION TYPES SPECIFIED IN OTHER SECTIONS SHALL NOT BE INSTALLED IN LIEU OF FIRESTOPPING MATERIAL SPECIFIED HEREIN.

2.

PENETRATIONS:

(A)

PENETRATIONS INCLUDE CONDUIT, CABLE, WIRE, OR OTHER ELEMENTS WHICH PASS THROUGH ONE OR BOTH OUTER SURFACES OF A FIRE RATED FLOOR, WALL, OR PARTITION.

(B)

EXCEPT FOR FLOORS ON GRADE, WHERE A PENETRATION OCCURS THROUGH A STRUCTURAL FLOOR OR ROOF AND A SPACE WOULD OTHERWISE REMAIN OPEN BETWEEN THE SURFACES OF THE PENETRATION AND THE EDGE OF THE ADJOINING STRUCTURAL FLOOR OR ROOF, PROVIDE FIRESTOPPING TO FILL SUCH SPACES IN ACCORDANCE WITH ASTM E 814 (UL 1479).

3.

MANUFACTURER'S INSTRUCTIONS: COMPLY WITH MANUFACTURER'S INSTRUCTIONS FOR INSTALLATION OF THROUGH-PENETRATION FIRESTOP SYSTEMS.

(A)

FIRESTOP ALL HOLES OR VOIDS MADE IN FIRE RESISTIVE ASSEMBLIES, MADE BY PENETRATIONS, TO ENSURE AGAINST THE PASSAGE OF FLAMES, SMOKE, AND TOXIC GASES.

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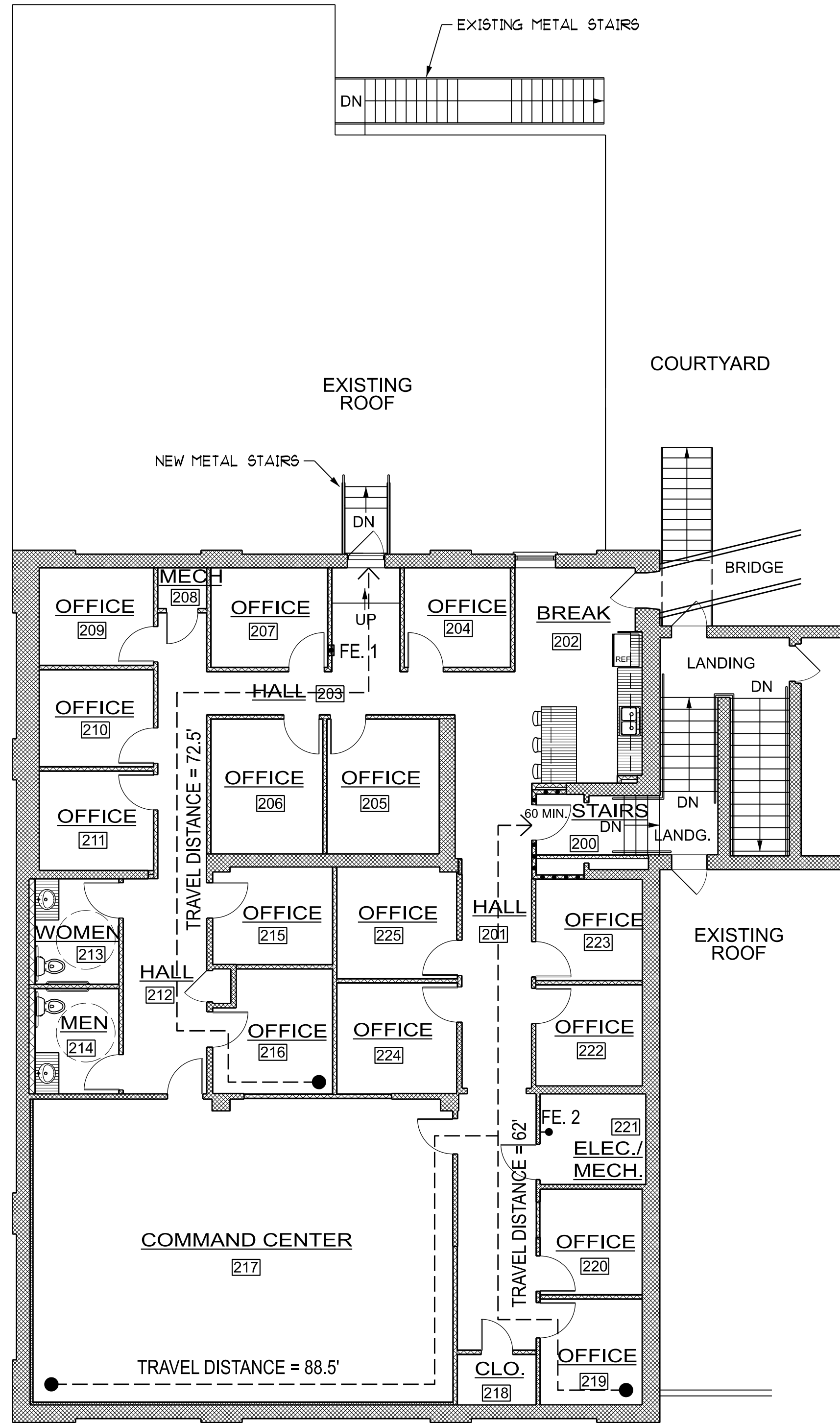
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RENOVATIONS FOR
MBC CODE ENFORCEMENT OFFICES
2ND FLOOR / CITY HALL
CORNER FIRST & POPLAR ST. MACON, GA

Drawing Issue Schedule	
2-14-2025	Permit Set
3-6-2025	Revision 1
Project No:	2024-34

Drawing
Specifications
G1.4
-R1

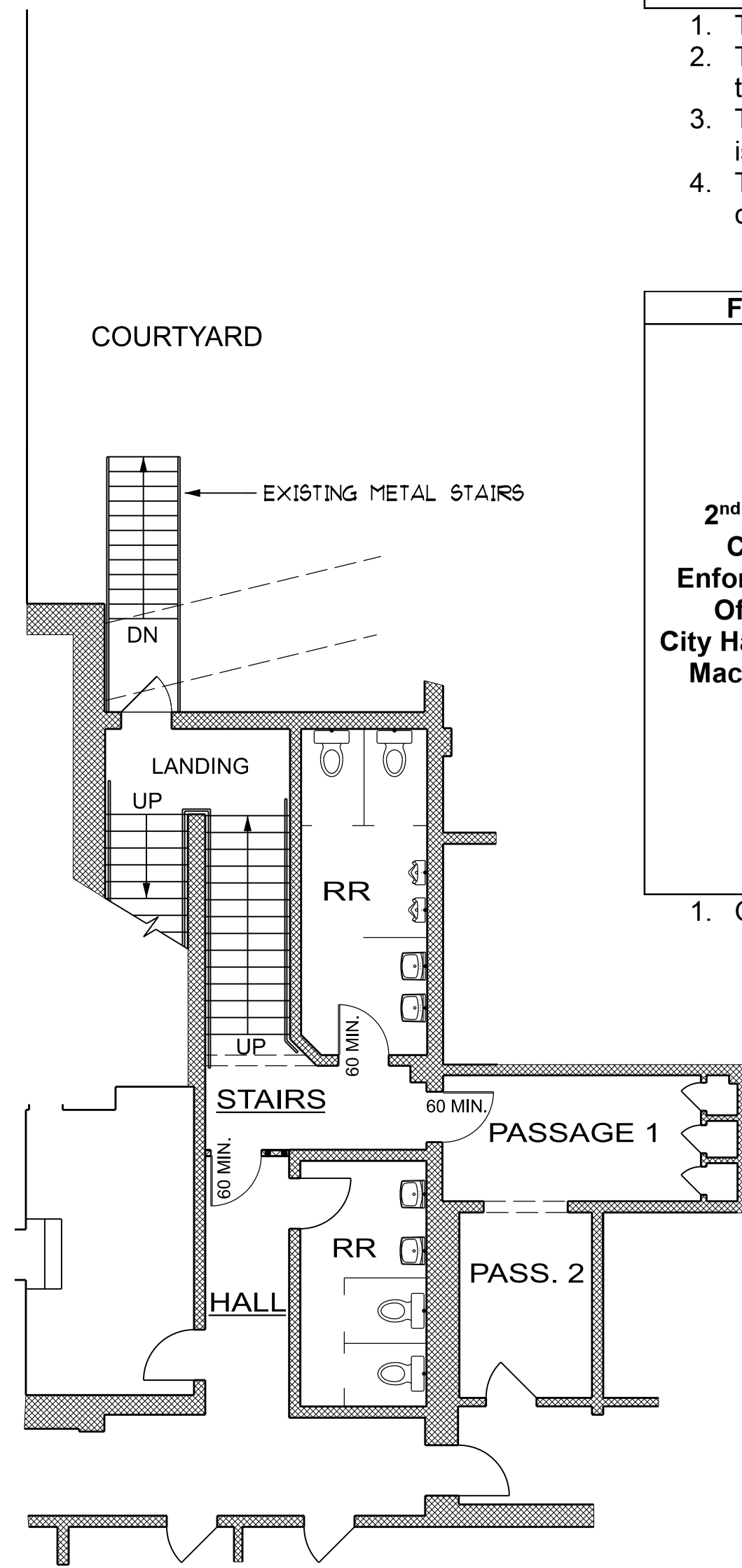
F:\PROJECTS\2024-34 MBC Code Enforcement Office\Working Drawings\2024-34 LS\Life Safety Floor Plan.dgn 2/3/2025



**PARTIAL SECOND FLOOR
LIFE SAFETY PLAN**
3,646 NET S.F. 1/8" = 1'-0"

WALL LEGEND

- EXISTING WALL
- NEW 1-HR FIRE RATED WALL:
3 5/8" STEEL STUDS @ 16" O/C W/
SOUND ATTENUATING BLANKETS &
5/8" TYPE "X" GYPSUM BOARD
BOTH SIDES. EXTEND TO DECK & SEAL.
- NEW WALL W/ STEEL STUDS @ 16" O/C
W/ SOUND ATTENUATING BLANKETS
& 5/8" GYPSUM BOARD BOTH SIDES.
SEE PLAN FOR STUD SIZES.



**PARTIAL FIRST FLOOR
LIFE SAFETY PLAN**
1/8" = 1'-0"

LEGEND

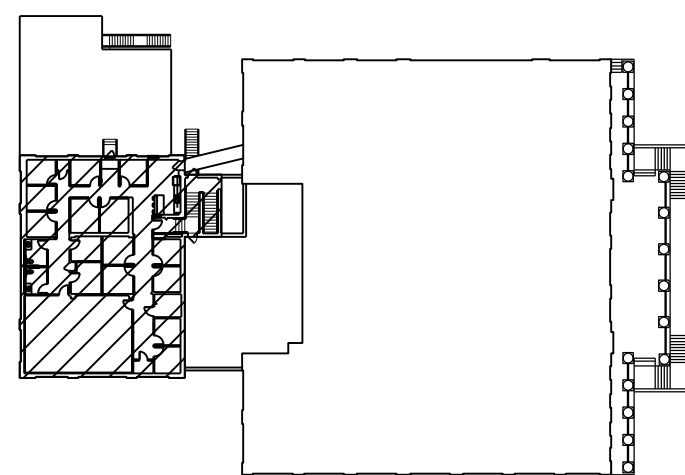
- FE. 1 NEW FIRE EXTINGUISHER
TYPE 1: 4A-BC IN SEMI-RECESSED CABINET
- FE. 2 NEW FIRE EXTINGUISHER
TYPE 2: 6A-120 BC IN WALL BRACKET

Building Height and Area Evaluation				
Building	Item	Proposed	Allowed or Required	Governing Code
2 nd Floor Code Enforcement Offices City Hall Annex Macon, GA	Occupancy	Business (B), (See Note 1 & 2)	Business (B), (See Note 1 & 2)	2018 Life Safety Code 2018 International Building Code as a supplement
	Type of Construction	Type IIA Unsprinklered	Type IIA Unsprinklered	2018 International Building Code
	Building Footprint Area	5,018 ft ²	37,500 ft ² (See Note 3)	2018 International Building Code
	Building Height	Avg roof - ± 32 ft 2 story	65 feet 5 story (See Note 4)	2018 International Building Code

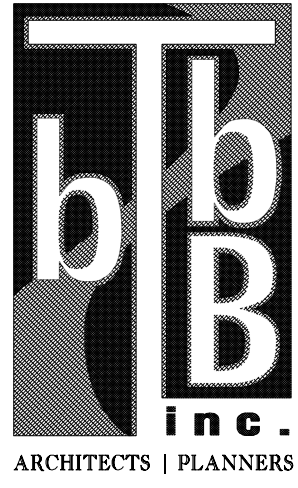
- The occupancy type is for the second floor of the building spaces. Occupancy designation (B) for this table is based on the IBC.
- The height and area evaluation is based on the Group B Occupancy type on the 2nd Floor. The most stringent requirements are applied to this floor to meet IBC Section 508.3 for Nonseparated occupancies.
- The base area allowed is from IBC Table 506.2 for unsprinklered Group (B) occupancy, and Type IIA construction. No allowable area credit is taken for open space.
- The building height (stories & feet) allowed is from IBC Tables 504.3 and 504.4 for unsprinklered Group (B) occupancy, and Type IIA construction.

Floor	Space	Item	Proposed	Required
2 nd Floor Code Enforcement Offices City Hall Annex Macon, GA	2 nd Floor	Max. Travel Distance to Exits	Max. Distance To Exit = 88.5 ft	
	Group (B)	Exiting	Offices = 3,189 ft ² 3,189 ft ² ÷ 150 ft ² /person = 22 people Command Center = 917 ft ² 917 ft ² ÷ 50 ft ² /person = 19 people (See Note 1)	Total Occupant Load 22 + 19 = 41 people Exit Stairs 41 people X 0.3 in./person = 12.3 inches. Distance allowed - Business = 200 feet Vertical Travel 2 stairs X 44-in./str = 88 in Total stairs = 88 in. > 12.3.0 in. OK

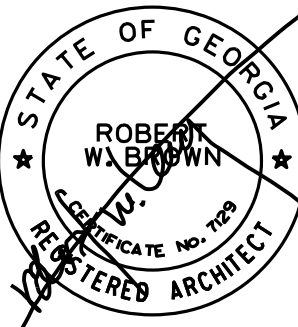
- Occupant load factor based on Concentrated Business Use, LSC Table 7.3.1.2



GRAPHIC SCALE IN FEET
0 10 20



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**RENOVATIONS FOR
MBC CODE ENFORCEMENT OFFICES
2ND FLOOR / CITY HALL**
CORNER FIRST & POPLAR ST. MACON, GA

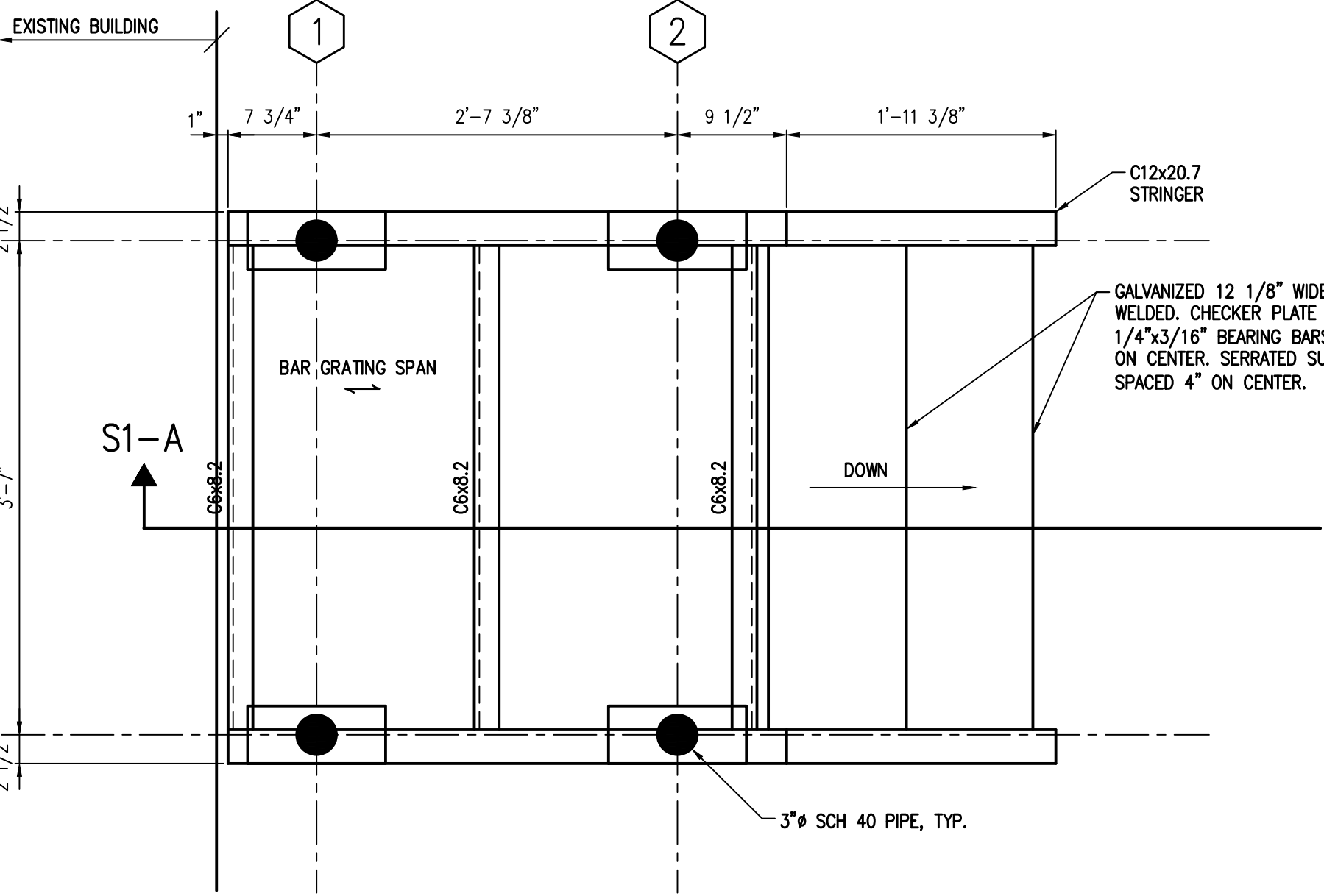
Drawing Issue Schedule	
2-14-2025	Permit Set
Project No:	2024-34

Life Safety
Floor Plan

LS1.1

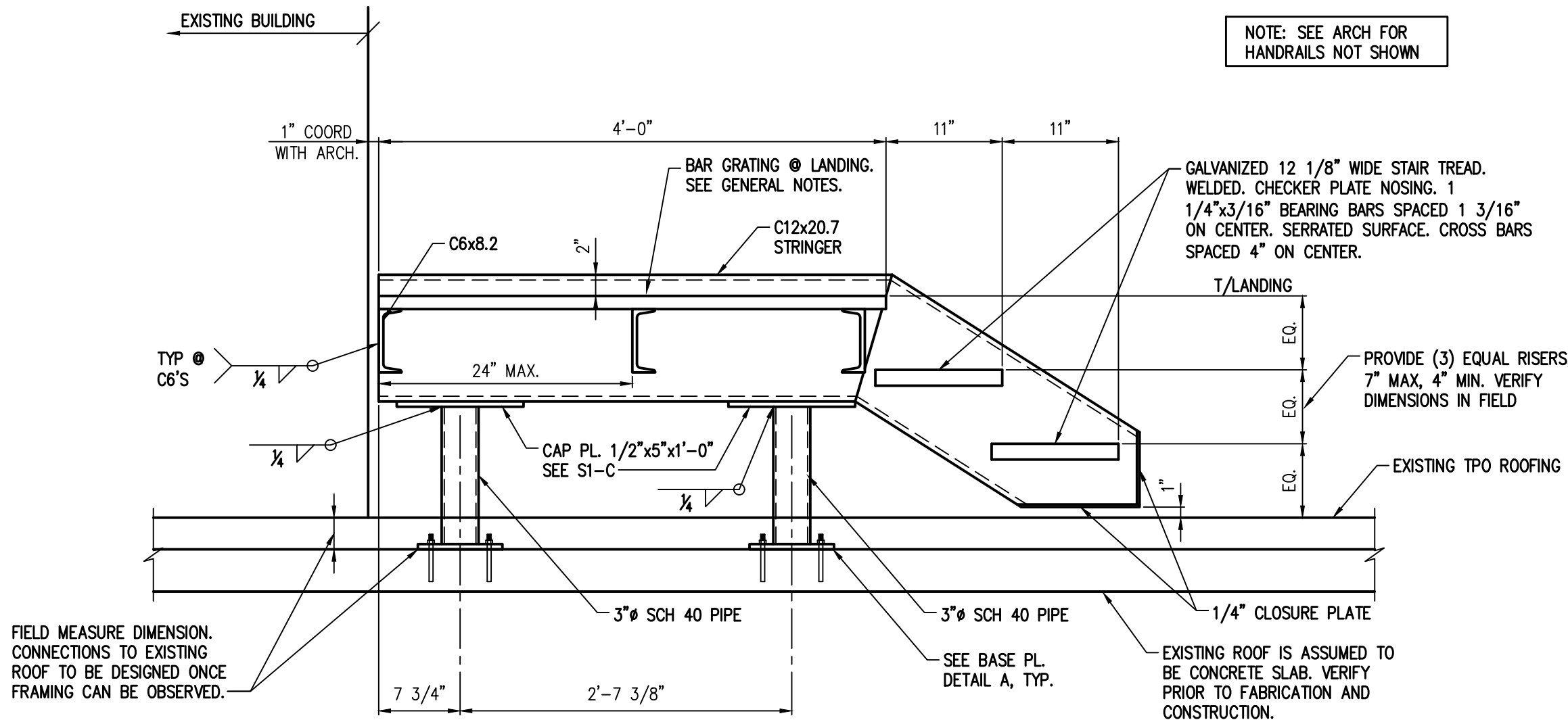
GENERAL NOTES

1. LIVE LOADS
A. ROOF (WITH APPROPRIATE REDUCTIONS) 20 PSF
B. STAIRS 100 PSF
C. INTERIOR LATERAL LOAD ON WALLS 5 PSF
2. CODES
A. INTERNATIONAL BUILDING CODE, 2018 ED. WITH LATEST GEORGIA AMENDMENTS.
B. ALL STEEL WORK SHALL COMPLY WITH APPLICABLE STANDARDS OF THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION, INCLUDING THE SPECIFICATION FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS, AISC 360-16 AND THE AMERICAN WELDING SOCIETY'S STRUCTURAL WELDING CODE, AWS D1.1-15.
C. ALL STRUCTURAL WOOD FRAMING SHALL COMPLY WITH THE AMERICAN WOOD COUNCIL: NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION, 2018.
3. STRUCTURAL STEEL
A. STEEL SHALL CONFORM TO ASTM A36 (36 KSI YIELD STRENGTH), EXCEPTIONS NOTED.
B. ALL PIPE SECTIONS SHALL CONFORM TO ASTM A53 (35 KSI YIELD STRENGTH)
C. ELECTRODES SHALL CONFORM TO E70-XX.
D. ALL BOLTS TO BE ASTM F3125 GRADE A325X, WITH THREADS EXCLUDED FROM THE SHEAR PLANE.
E. ALL BASE PLATES SHALL BE SUPPLIED FREE OF LAMINATIONS AND IMPURITIES AND SHALL CONFORM TO ASTM A36, U.N.O.
4. STRUCTURAL WOOD FRAMING
A. ALL STRUCTURAL WOOD FRAMING MEMBERS SHALL BE SOUTHERN YELLOW PINE NO. 2 GRADE OR BETTER, U.N.O.
B. ALL WALL STUDS SHALL BE S.P.F. NO. 2 OR BETTER. ALL WALLS SHALL HAVE HORIZONTAL 2X BLOCKING AT 4'-0" MAXIMUM O.C. BLOCKING SHALL BE SAME SIZE AND GRADE AS WALL STUDS.
C. ALL MEMBERS IN CONTACT WITH CONCRETE OR MASONRY AND ALL MEMBERS LABELED "P.T." SHALL BE PRESSURE TREATED.
D. ALL CONNECTORS SHALL BE AS MANUFACTURED BY SIMPSON STRONG TIE, OR APPROVED EQUAL.
E. ALL CONNECTORS SHALL BE INSTALLED WITH FASTENER TYPE AND QUANTITY AS PER MANUFACTURER'S WRITTEN INSTRUCTIONS.
F. WHERE MANUFACTURER LISTS OPTIONS FOR NO. OF FASTENERS USED, USE MAX. NO. UNLESS SPECIFICALLY INDICATED OTHERWISE.
G. DIMENSIONAL LUMBER CONNECTIONS NOT SPECIFICALLY CALLED OUT ON THESE DRAWINGS SHALL HAVE THE MINIMUM SIZE AND NUMBER OF FASTENERS AS REQUIRED IN CHAPTER 23 OF THE INTERNATIONAL BUILDING CODE, 2012 ED. WITH LATEST GEORGIA AMENDMENTS.
5. BAR GRATING
A. BAR GRATING TO BE TYPE W19-4 WELDED METAL BAR GRATING IN ACCORDANCE WITH NAAM METAL BAR GRATING MANUAL. THE GRATING MATERIAL SHALL CONFORM TO ASTM A36 STEEL FOR THE MAIN "BEARING" BAR. THE MAIN BAR IS TO BE 1 1/4" DEEP BY 3/16" THICK SPACED AT 1 3/16" CENTERS, WITH CROSS BARS AT 4" O.C. THE GRATING SYSTEM SHALL SPAN AS INDICATED ON THE PLANS, AND SHALL SUPPORT A MINIMUM LIVE LOAD OF 100 PSF. ALL GRATING SHALL BE HOT DIP GALVANIZED, WITH TOP SURFACE SERRATED. PROVIDE FULL-DEPTH BANDING, 3/16" x 1 1/4", AT ALL OPENINGS. TYP. BAR GRATING SHALL BE FURNISHED WITH MANUFACTURER'S BOLT DOWN CLAMPS. QUANTITY AND LOCATION OF CLAMPS SHALL BE PER MANUFACTURER'S RECOMMENDATIONS.



STAIR PLAN AT ROOF

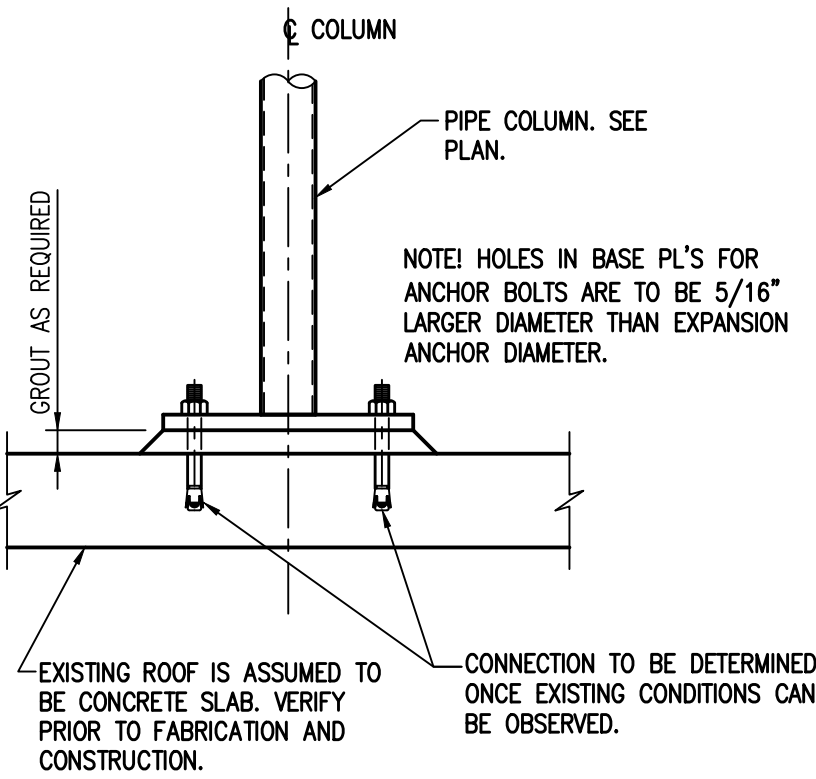
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S1-A

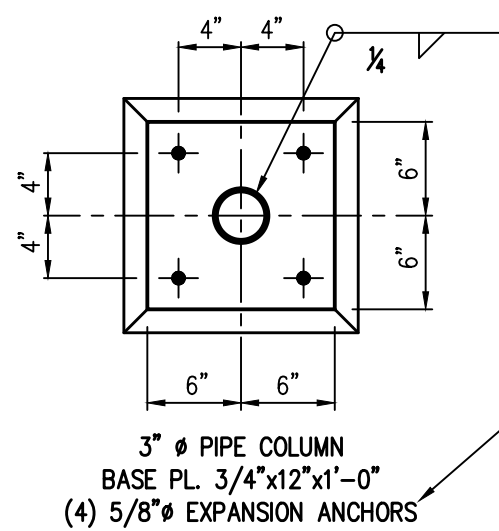
SCALE: 1"=1'-0"

FIELD MEASURE DIMENSION. CONNECTIONS TO EXISTING ROOF TO BE DESIGNED ONCE FRAMING CAN BE OBSERVED.

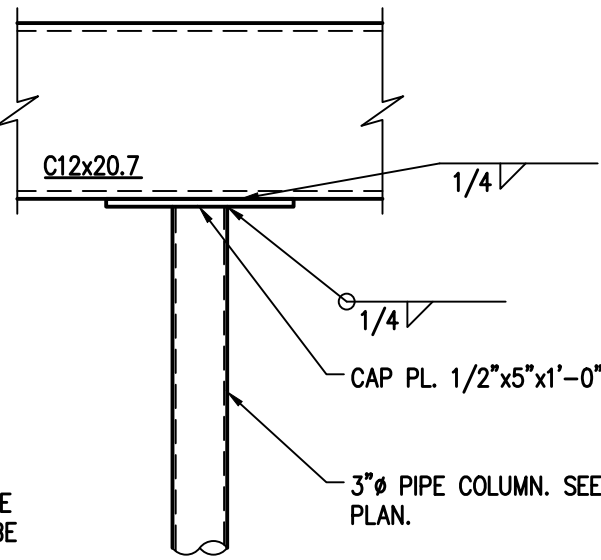


S1-B

NO SCALE



BASE PL. DETAIL A



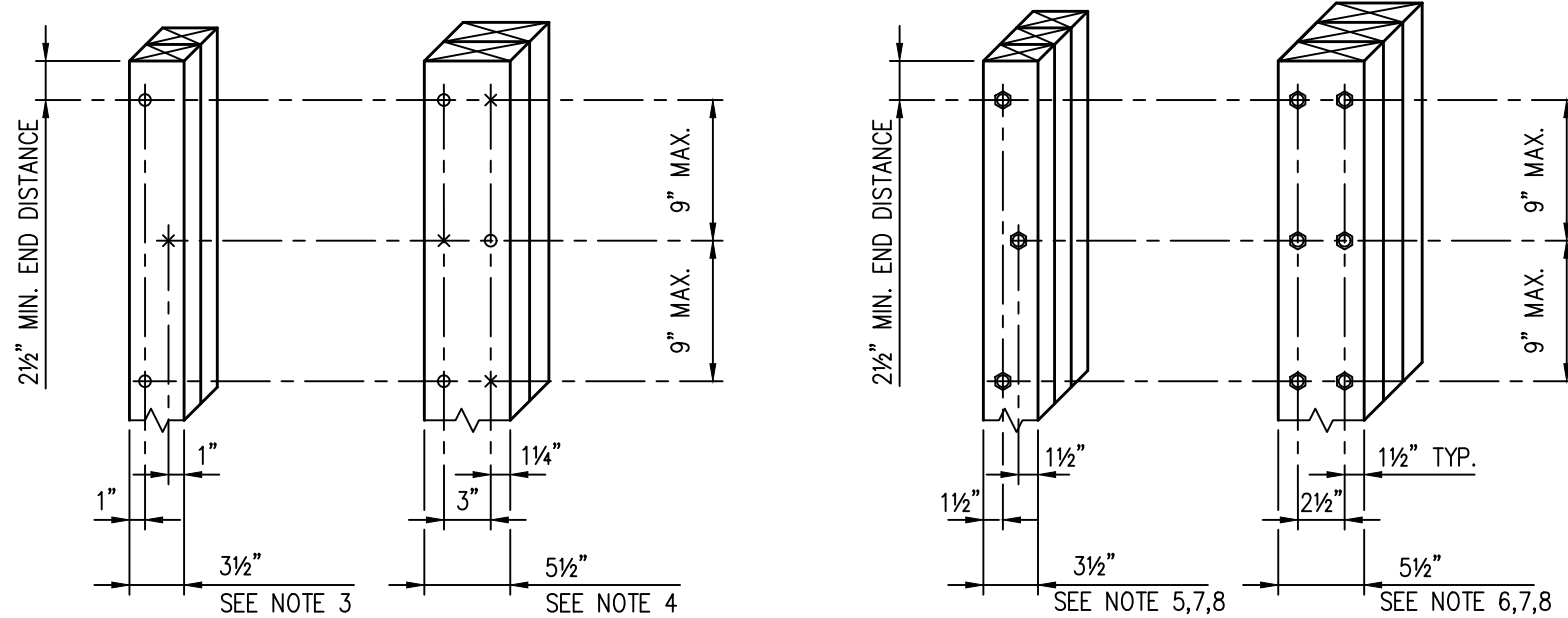
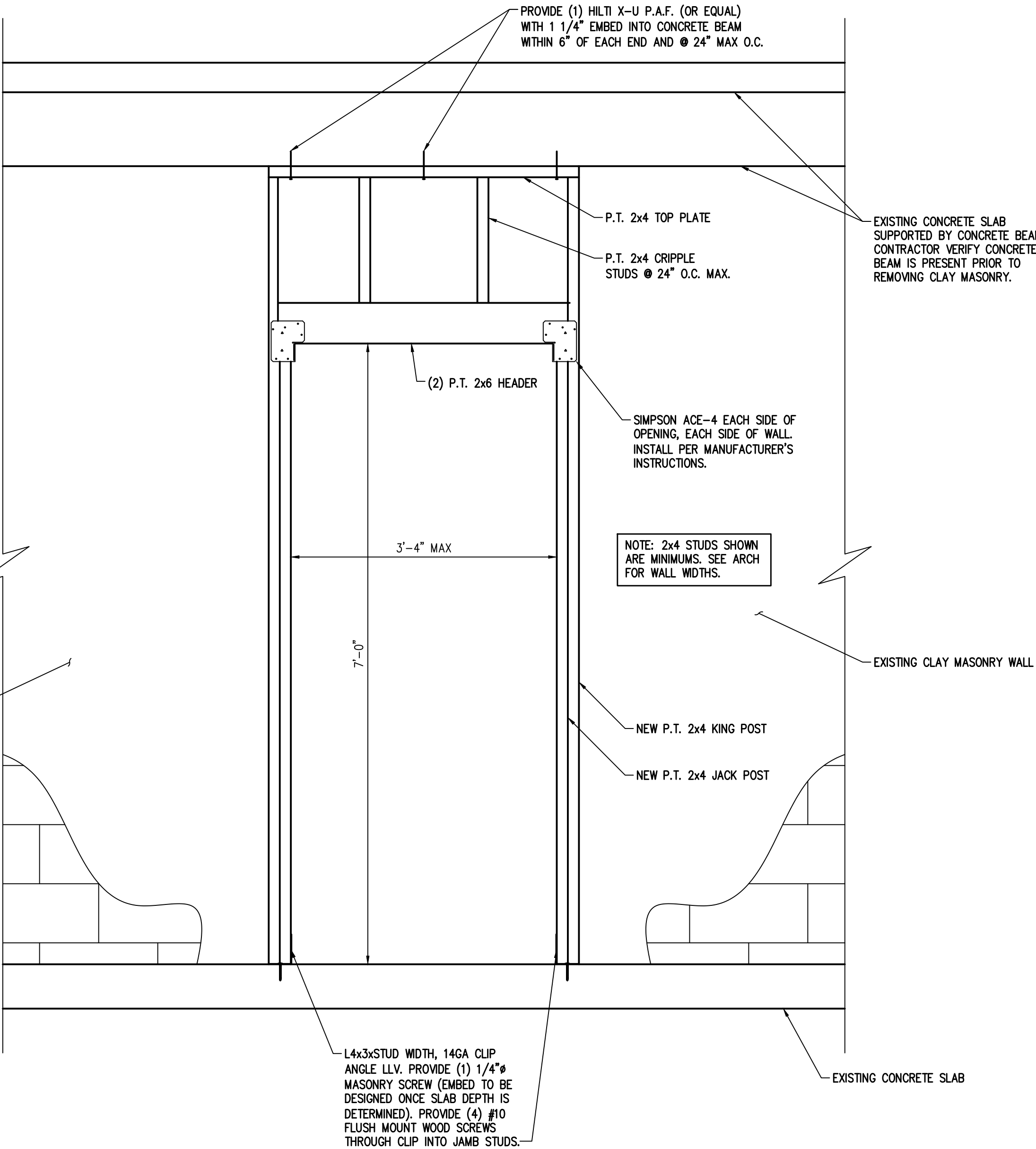
S1-C

NO SCALE

EXISTING CLAY MASONRY WALL

NEW DOOR ELEVATION
IN EXISTING CLAY MASONRY WALL

SCALE: 1"=1'-0"



LEGEND

- NAIL FROM THIS SIDE
× NAIL FROM OPPOSITE SIDE
○ BOLT

NOTES

1. USE 100 NAILS FOR 2-PLY MEMBERS. USE 300 NAILS FOR 3-PLY MEMBERS.
2. ADJACENT NAILS ARE TO BE DRIVEN FROM OPPOSITE SIDES OF COLUMN.
3. 2x4 BUILT-UP COLUMNS WITH ONE OR TWO PLIES REQUIRE ONE ROW OF STAGGERED NAILS AS SHOWN.
4. 2x6 BUILT-UP COLUMNS WITH ONE OR TWO PLIES REQUIRE TWO ROWS OF NAILS AS SHOWN.
5. 2x4 BUILT-UP COLUMNS WITH 3 OR MORE PLIES REQUIRE ONE ROW OF STAGGERED 1/2" A307 BOLTS AS SHOWN.
6. 2x6 BUILT-UP COLUMNS WITH THREE OR MORE PLIES REQUIRE TWO ROWS OF 1/2" A307 BOLTS AS SHOWN.
7. PROVIDE WASHER BETWEEN WOOD AND BOLT HEAD AND BETWEEN WOOD AND NUT.
8. TIGHTEN BOLTS TO ENSURE LAMINATIONS ARE IN CONTACT.
9. IN LIEU OF BOLTS AND WASHERS, SIMPSON STRONG-DRIVE SDWS SCREWS MAY BE PROVIDED AT THE SAME SPACING INDICATED FOR THE BOLTS ON THESE DETAILS. COORDINATE LENGTH OF SCREWS WITH CONNECTED MEMBERS.

TYPICAL BUILT-UP STUD COLUMNS

NO SCALE

STRUCTURAL DESIGN BY
PI-TECH, INC.



2/28/25
Pi-Tech, Inc. COA#PEF003000
COA Expiration: 6.30.2026

PI-TECH, INC.

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BIBB COUNTY CODE ENFORCEMENT

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FOR
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MACON, GA

REVISIONS

DRWN BY: CNB

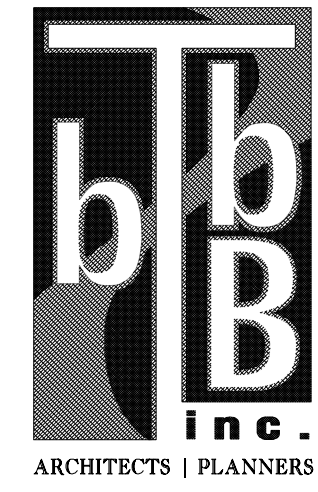
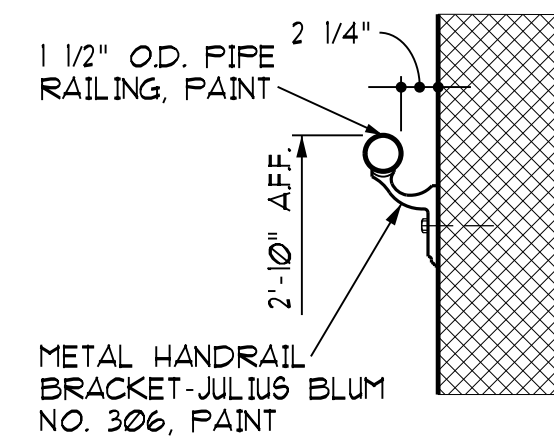
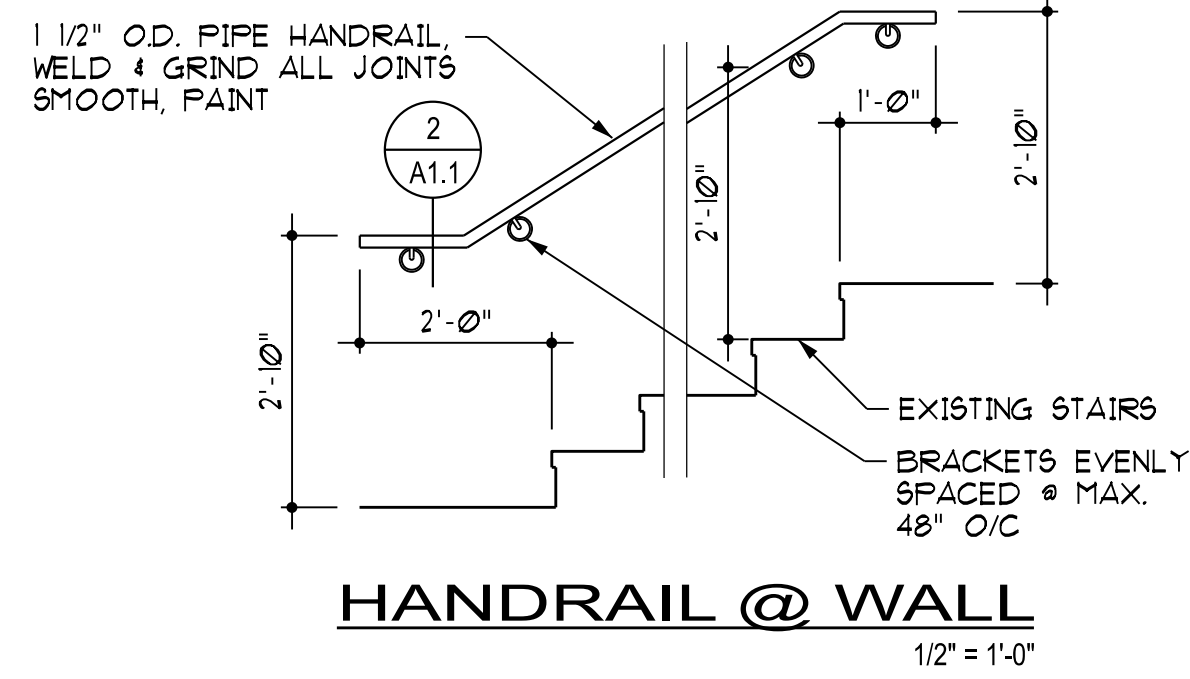
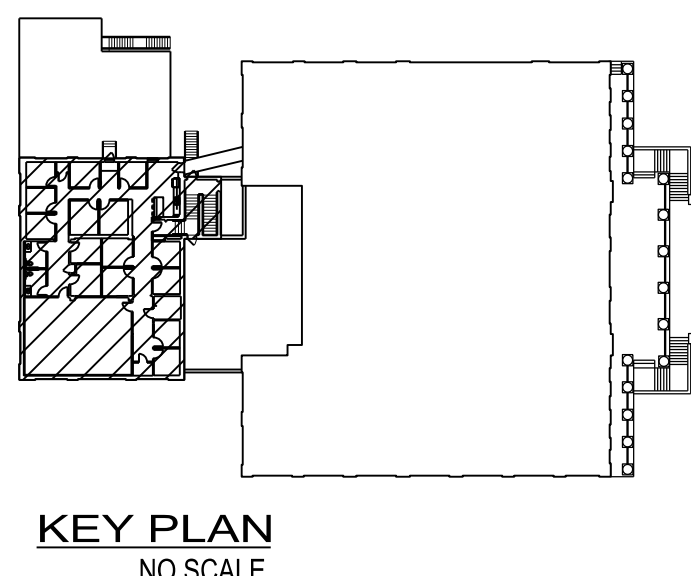
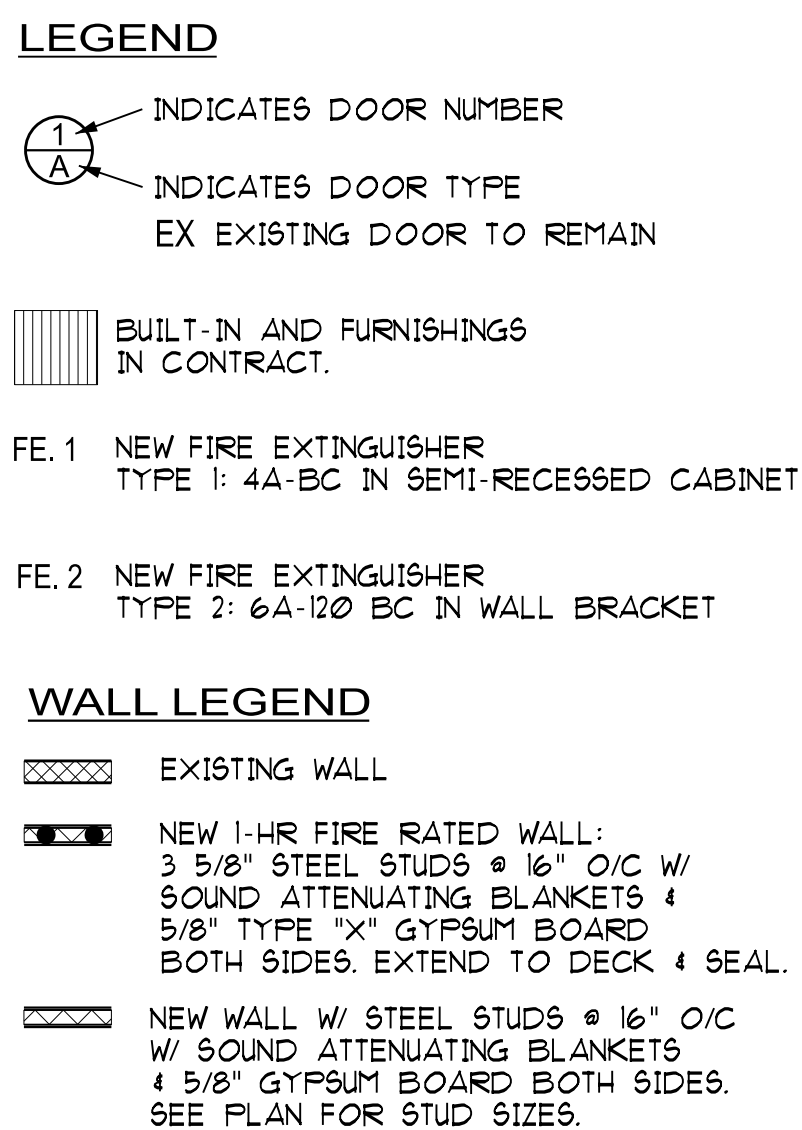
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DATE: FEBRUARY 28, 2025

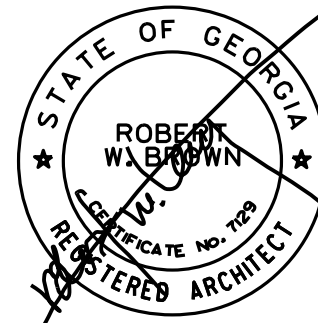
SHEET NO.

S1

SHEET 1 OF 1



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**RENOVATIONS FOR
MBC CODE ENFORCEMENT OFFICES
2ND FLOOR / CITY HALL**

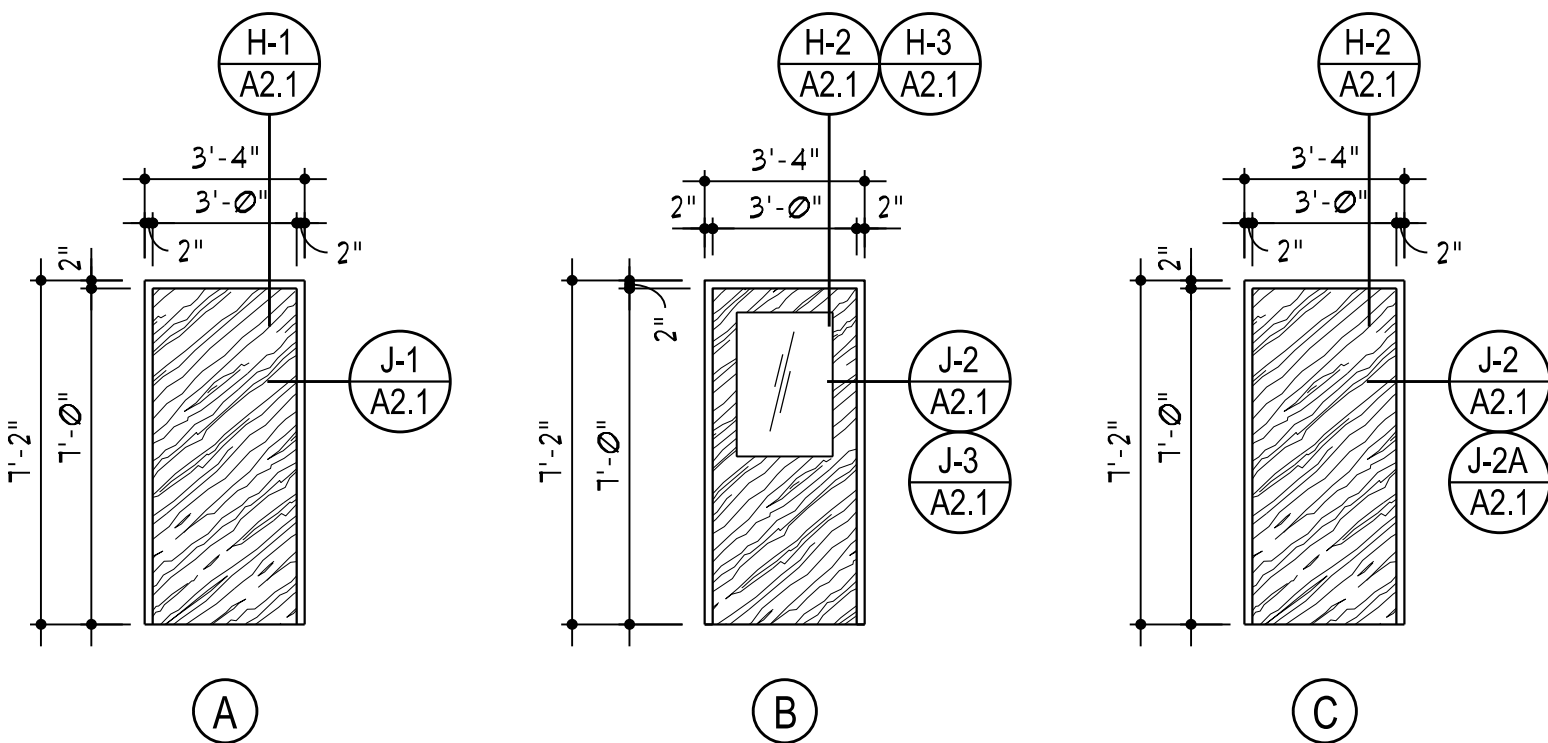
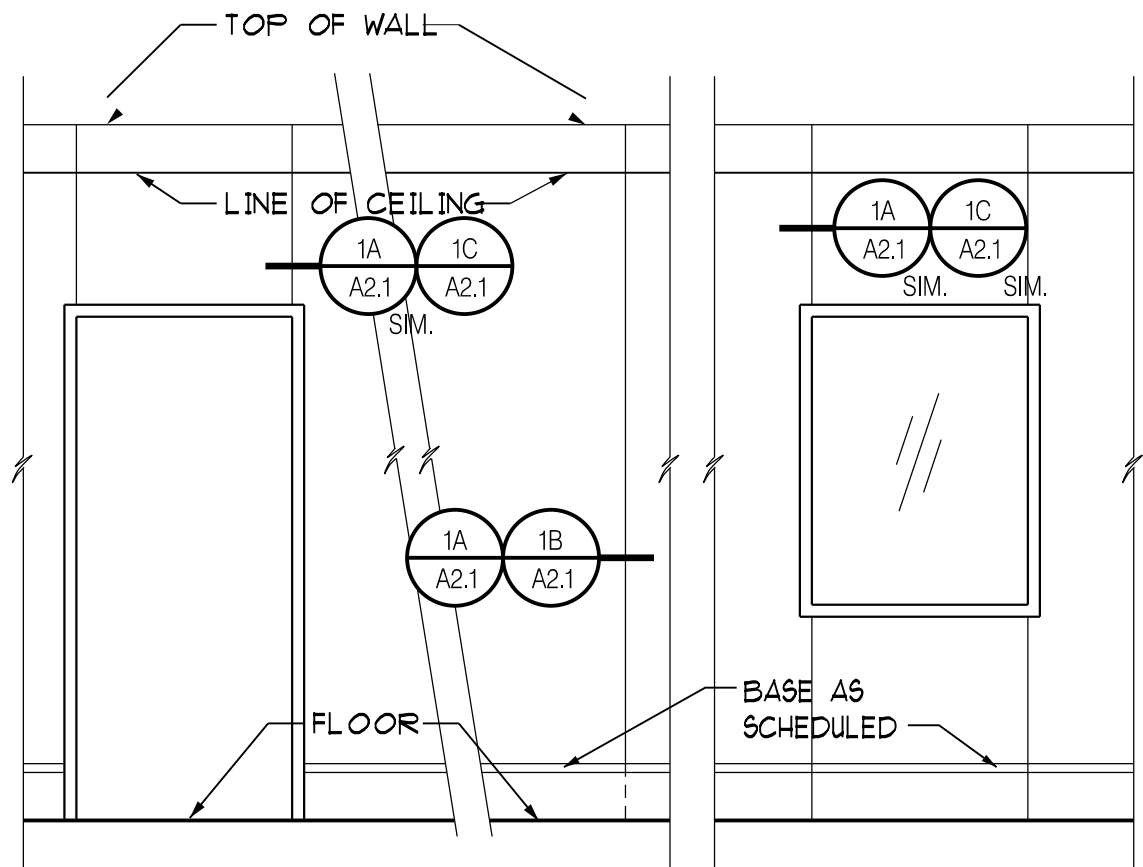
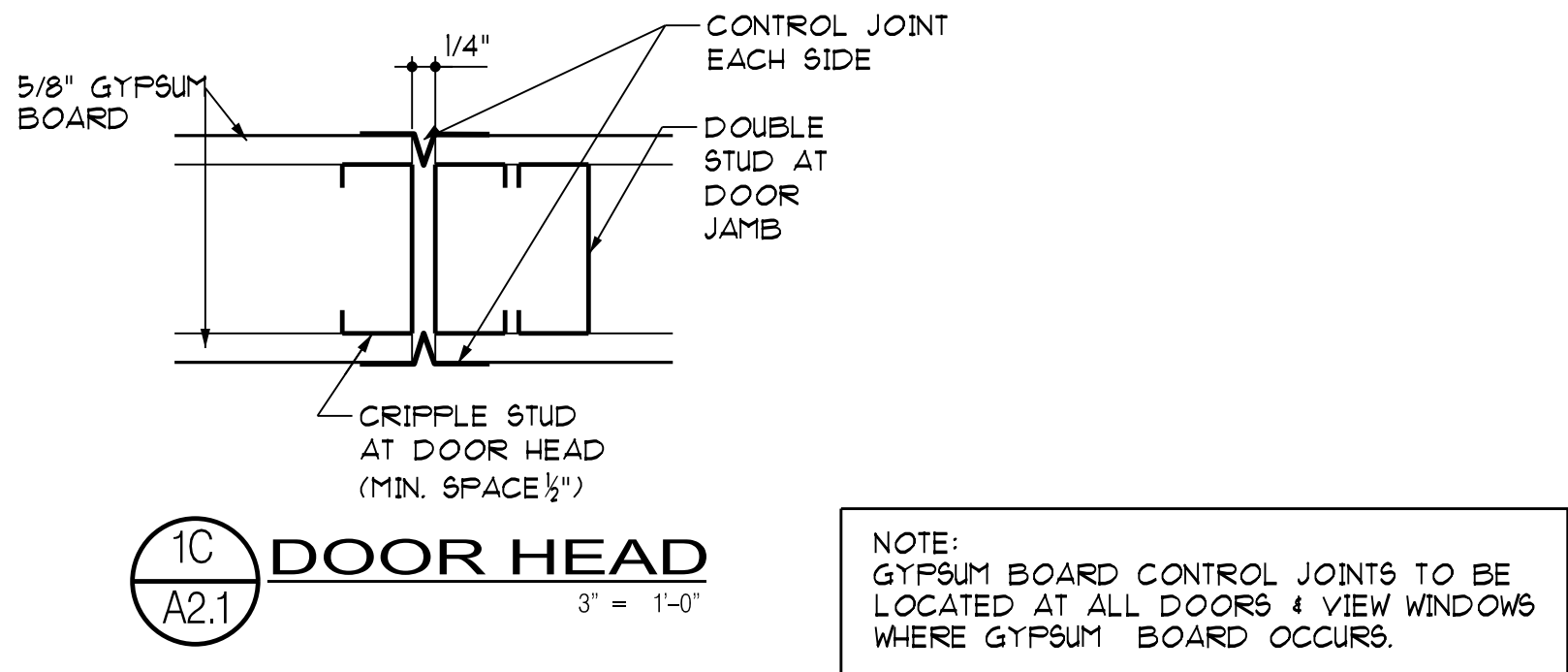
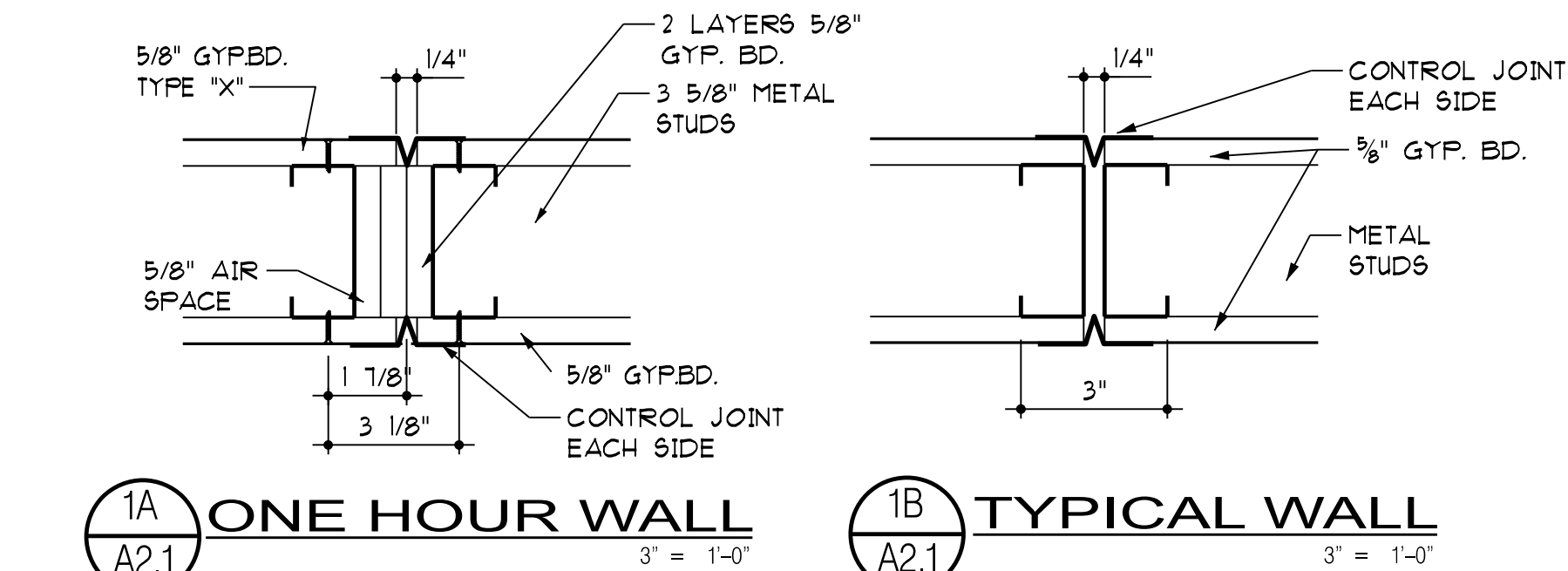
CORNER FIRST & POPLAR ST. MACON, GA

Drawing Issue Schedule	
2-14-2025	Permit Set
Project No:	2024-34

Partial First & Second Floor Plans

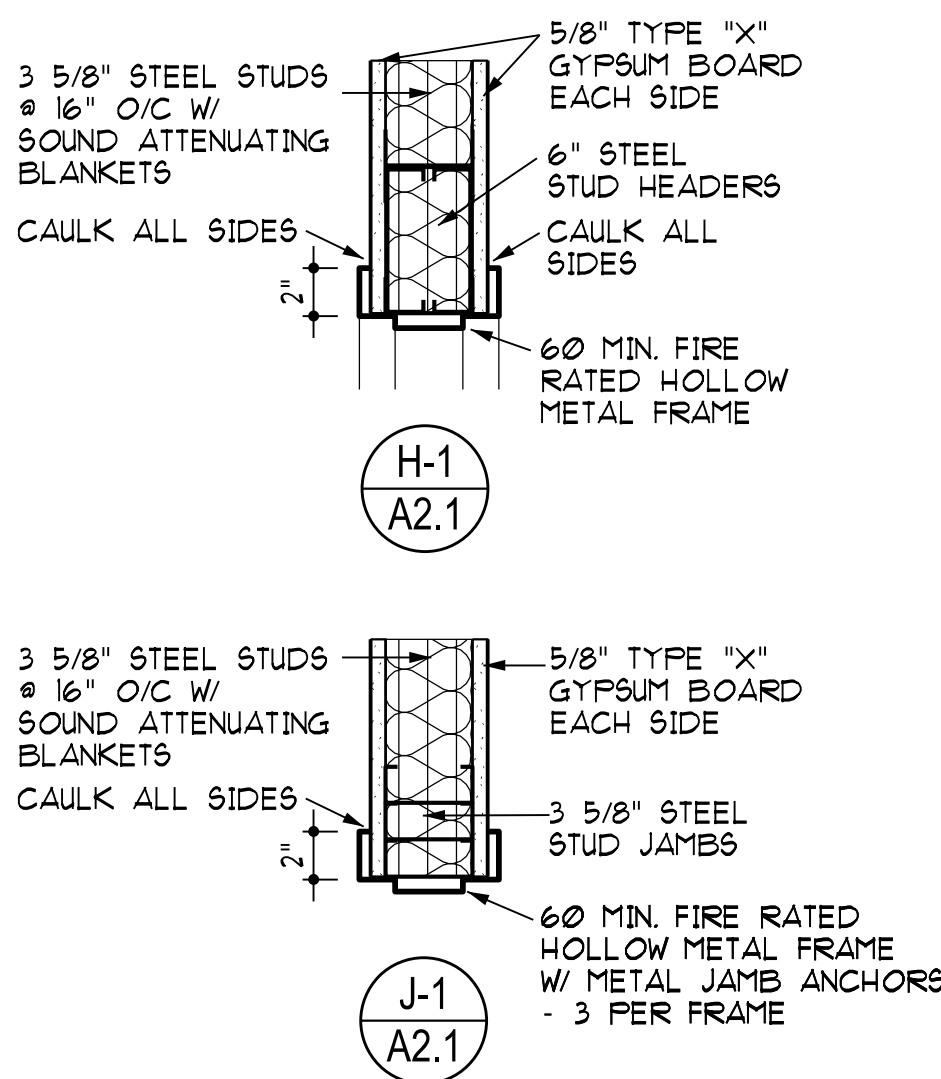
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2/2/2025

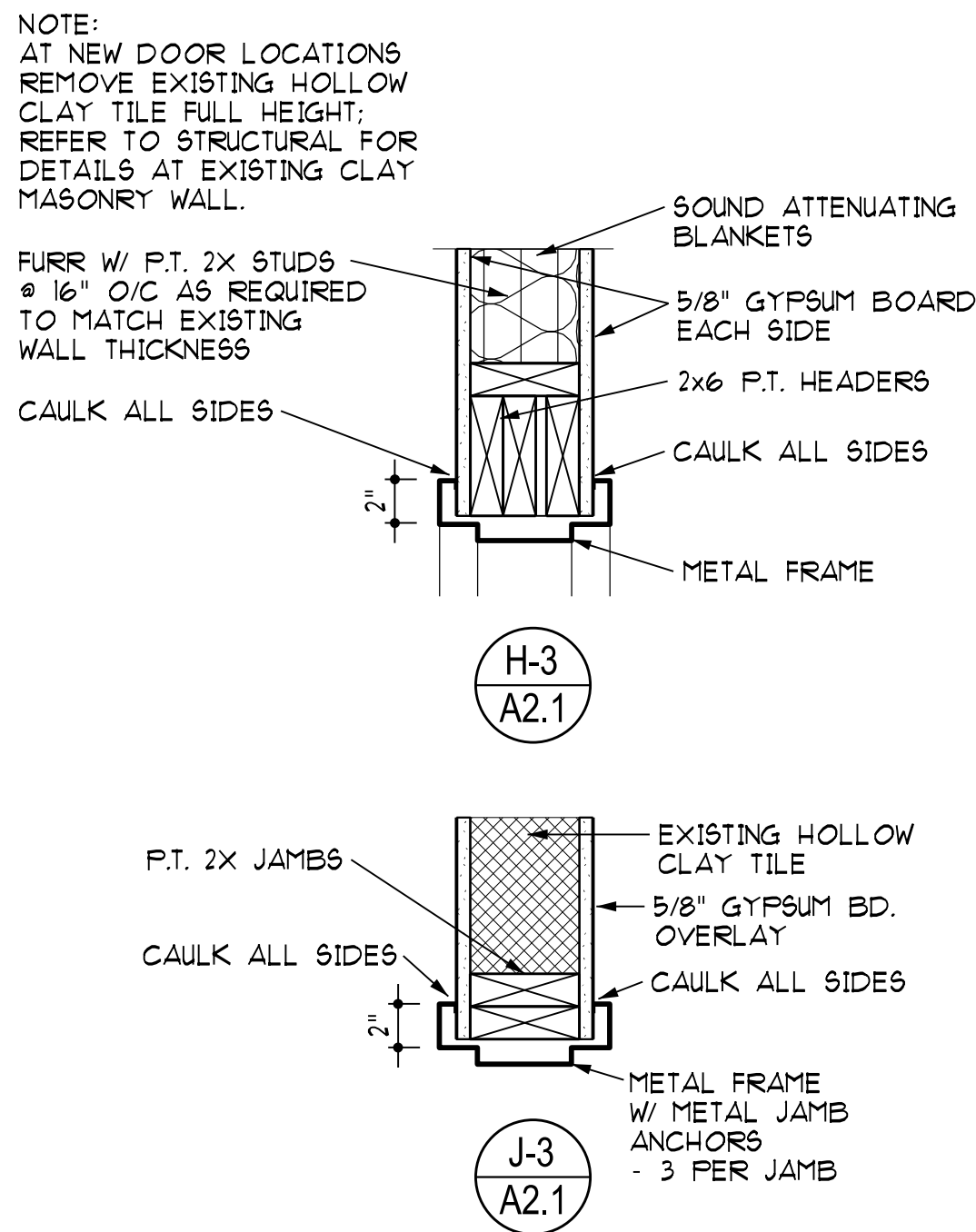
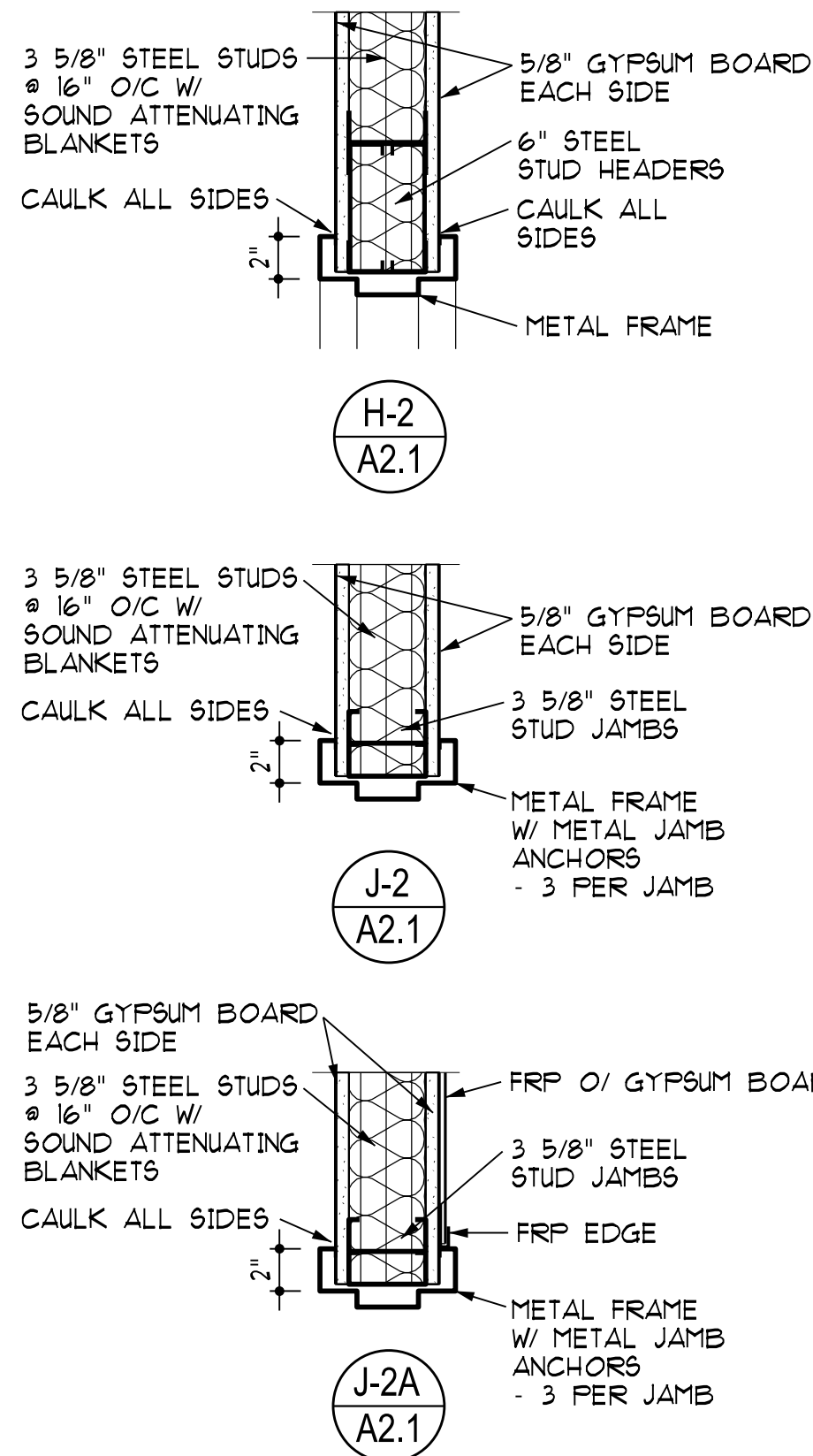


DOOR & FRAME TYPES

NOTE:
UNDERCUT DOORS 3/4" AT FOLLOWING LOCATIONS:
- RESTROOMS 213 & 214
- MECHANICAL ROOMS 208 & 220
- CLOSET 218
- OFFICE 220



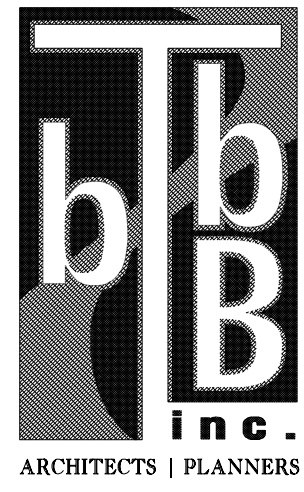
DOOR DETAILS



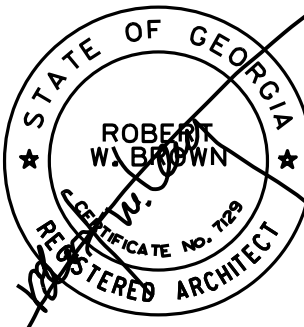
FINISH & MATERIAL SCHEDULE											
ROOM No.	ROOM NAME	FLOOR		BASE		WALLS		CEILING			REMARKS
		MATERIAL	FINISH	MATERIAL	FINISH	MATERIAL	FINISH	MATERIAL	FINISH	HEIGHT	
	PASSAGE 1 @ 1ST FLR.	EXISTING	CLEAN	EXISTING	CLEAN	EXISTING	PAINT	EXIST. A.C.T. ★			★ MODIFY EXIST. CEILING GRID AS REQUIRED
	PASSAGE 2 @ 1ST FLR.	EXISTING	CLEAN	EXISTING	CLEAN	EXISTING	PAINT	EXISTING			
	STAIRS @ 1ST FLR.	EXISTING	CLEAN	EXISTING	CLEAN	EXIST./GYP.BD.	PAINT	EXIST. A.C.T. ★			
	HALL @ 1ST FLR.	EXISTING	CLEAN	EXISTING	CLEAN	EXIST./GYP.BD.	PAINT GYP.BD.	EXIST. A.C.T. ★			★ MODIFY EXIST. CEILING GRID AS REQUIRED
200	STAIRS	EXISTING	CLEAN			EXISTING	PAINT	EXISTING			
201	HALL	LVT	CLEAN	RESILIENT	CLEAN	EXIST./GYP.BD.	PAINT	A.C.T.	FACTORY	9'-0"	
202	BREAK	LVT	CLEAN	RESILIENT	CLEAN	EXIST./GYP.BD.	PAINT	A.C.T.	FACTORY	9'-0"	
203	HALL	LVT	CLEAN	RESILIENT	CLEAN	EXIST./GYP.BD.	PAINT	A.C.T.	FACTORY	9'-0"	
204	OFFICE	LVT	CLEAN	RESILIENT	CLEAN	EXIST./GYP.BD.	PAINT	A.C.T.	FACTORY	9'-0"	
205	OFFICE	LVT	CLEAN	RESILIENT	CLEAN	EXIST./GYP.BD.	PAINT	A.C.T.	FACTORY	9'-0"	
206	OFFICE	LVT	CLEAN	RESILIENT	CLEAN	EXIST./GYP.BD.	PAINT	A.C.T.	FACTORY	9'-0"	
207	OFFICE	LVT	CLEAN	RESILIENT	CLEAN	EXIST./GYP.BD.	PAINT	A.C.T.	FACTORY	9'-0"	
208	MECHANICAL	LVT	CLEAN	RESILIENT	CLEAN	EXIST./GYP.BD.	PAINT	A.C.T.	FACTORY	9'-0"	
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210	OFFICE	LVT	CLEAN	RESILIENT	CLEAN	EXIST./GYP.BD.	PAINT	A.C.T.	FACTORY	9'-0"	
211	OFFICE	LVT	CLEAN	RESILIENT	CLEAN	EXIST./GYP.BD.	PAINT	A.C.T.	FACTORY	9'-0"	
212	HALL	LVT	CLEAN	RESILIENT	CLEAN	EXIST./GYP.BD.	PAINT	A.C.T.	FACTORY	9'-0"	
213	WOMEN	LVT	CLEAN	RESILIENT	CLEAN	EXIST./GYP.BD./FRP	PAINT /CLEAN	GYP.BD.	PAINT	8'-0"	FRP TO 6'-3" A.F.F.
214	MEN	LVT	CLEAN	RESILIENT	CLEAN	EXIST./GYP.BD./FRP	PAINT /CLEAN	GYP.BD.	PAINT	8'-0"	FRP TO 6'-3" A.F.F.
215	OFFICE	LVT	CLEAN	RESILIENT	CLEAN	EXIST./GYP.BD.	PAINT	A.C.T.	FACTORY	9'-0"	
216	OFFICE	LVT	CLEAN	RESILIENT	CLEAN	EXIST./GYP.BD.	PAINT	A.C.T.	FACTORY	9'-0"	
217	COMMAND CENTER	LVT	CLEAN	RESILIENT	CLEAN	EXIST./GYP.BD.	PAINT	A.C.T.	FACTORY	10'-0"	
218	CLOSET	LVT	CLEAN	RESILIENT	CLEAN	EXIST./GYP.BD.	PAINT	A.C.T.	FACTORY	9'-0"	
219	OFFICE	LVT	CLEAN	RESILIENT	CLEAN	EXIST./GYP.BD.	PAINT	A.C.T.	FACTORY	9'-0"	
220	OFFICE	LVT	CLEAN	RESILIENT	CLEAN	EXIST./GYP.BD.	PAINT	A.C.T.	FACTORY	9'-0"	
221	MECHANICAL	EXISTING	CLEAN					A.C.T.	FACTORY	9'-0"	
222	OFFICE	LVT	CLEAN	RESILIENT	CLEAN	EXIST./GYP.BD.	PAINT	A.C.T.	FACTORY	9'-0"	
223	OFFICE	LVT	CLEAN	RESILIENT	CLEAN	EXIST./GYP.BD.	PAINT	A.C.T.	FACTORY	9'-0"	
224	OFFICE	LVT	CLEAN	RESILIENT	CLEAN	EXIST./GYP.BD.	PAINT	A.C.T.	FACTORY	9'-0"	
225	OFFICE	LVT	CLEAN	RESILIENT	CLEAN	EXIST./GYP.BD.	PAINT	A.C.T.	FACTORY	9'-0"	

ABBREVIATIONS
A.C.T. ACOUSTICAL CEILING TILE
FRP FIBER REINFORCED PLASTIC PANEL
GYP.BD. GYPSUM BOARD
LVT LUXURY VINYL TILE

NOTE:
1. PAINT NEW WALL AT 1ST FLOOR HALL.



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RENOVATIONS FOR MBC CODE ENFORCEMENT OFFICES 2ND FLOOR / CITY HALL CORNER FIRST & POPLAR ST. MACON, GA

Drawing Issue Schedule	
2-14-2025	Permit Set
Project No:	2024-34

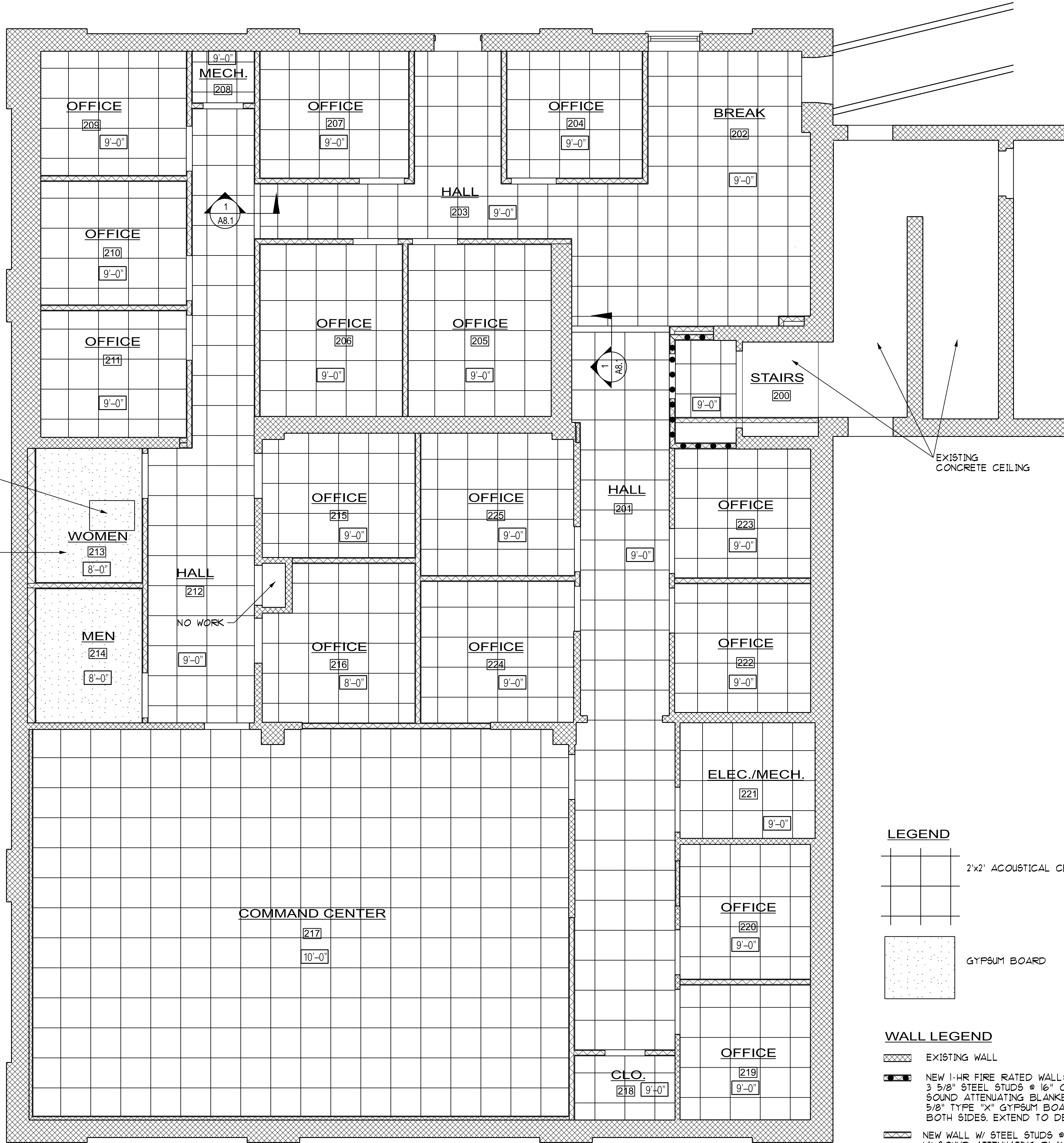
Finish & Material
Schedule, Door
Types & Details

A2.1

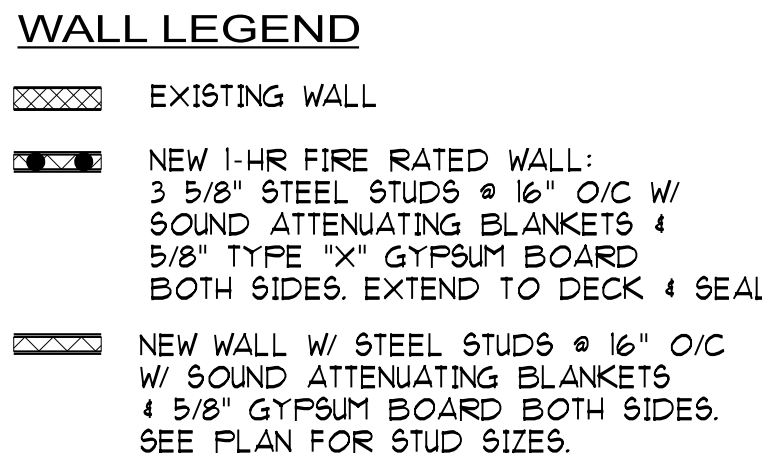
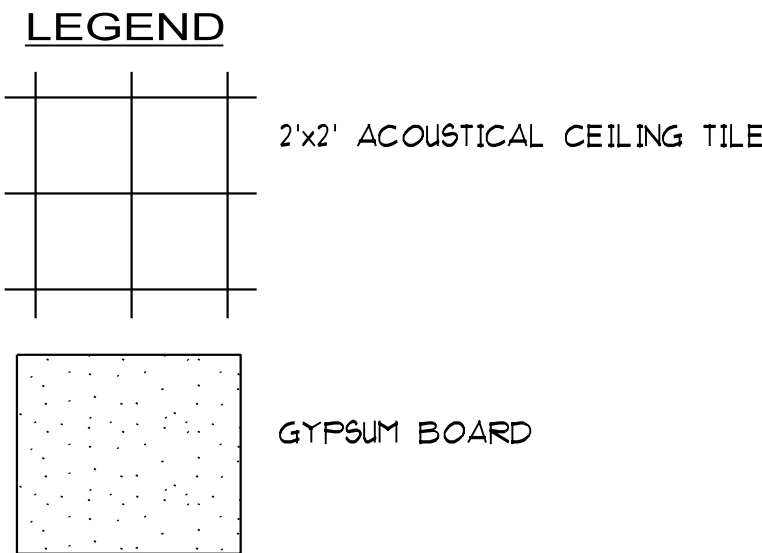
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ACOUSTICAL ATTIC ACCESS DOOR,
EQUAL TO:
MODEL # ACD-2064 24x36
ACUDOR PRODUCTS, INC.
P.O. BOX 4668, NEW YORK, NY
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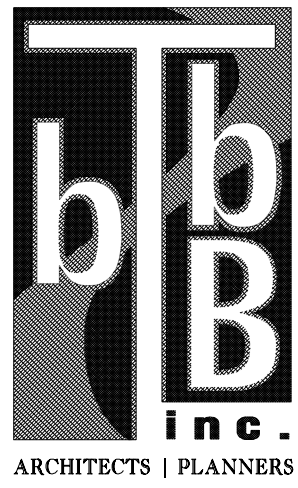
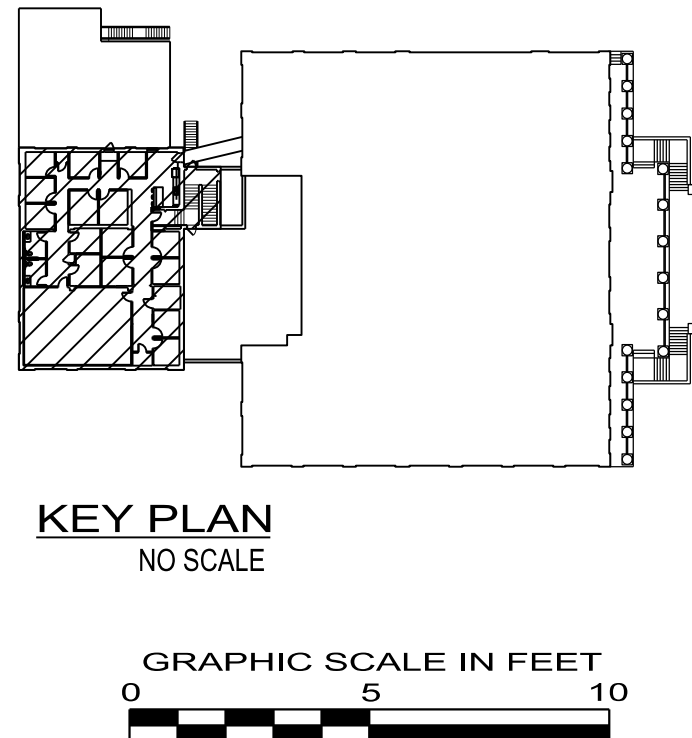
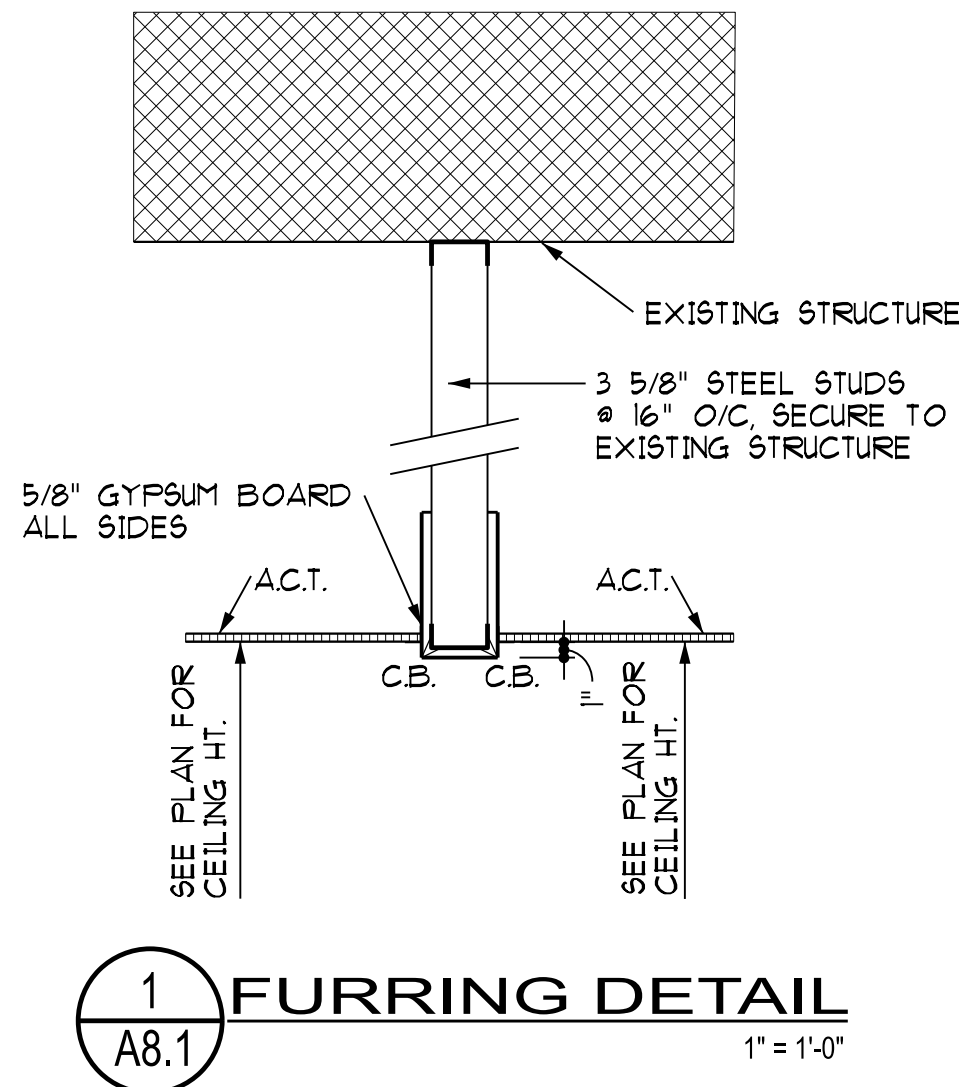
MECHANICAL MEZZANINE
ABOVE WOMEN 213
PLATFORM W/ 8" STEEL STUD JOISTS
@ 12" O/C W/ 3/4" T & G PLYWOOD
FLOOR NAILED & GLUED.
PROVIDE SOUND BATTIS BETWEEN JOISTS.



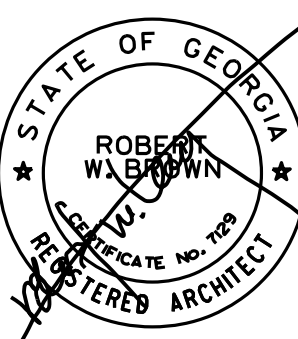
PARTIAL SECOND FLOOR REFLECTED CEILING PLAN
1/4" = 1'-0"



- NOTES:
- ALL SPACES SHALL HAVE SOUND ATTENUATING BLANKETS ABOVE ALL CEILINGS.
 - LIGHTS, DIFFUSERS, ETC. ARE NOT SHOWN. REFER TO ELECTRICAL AND MECHANICAL DRAWINGS.



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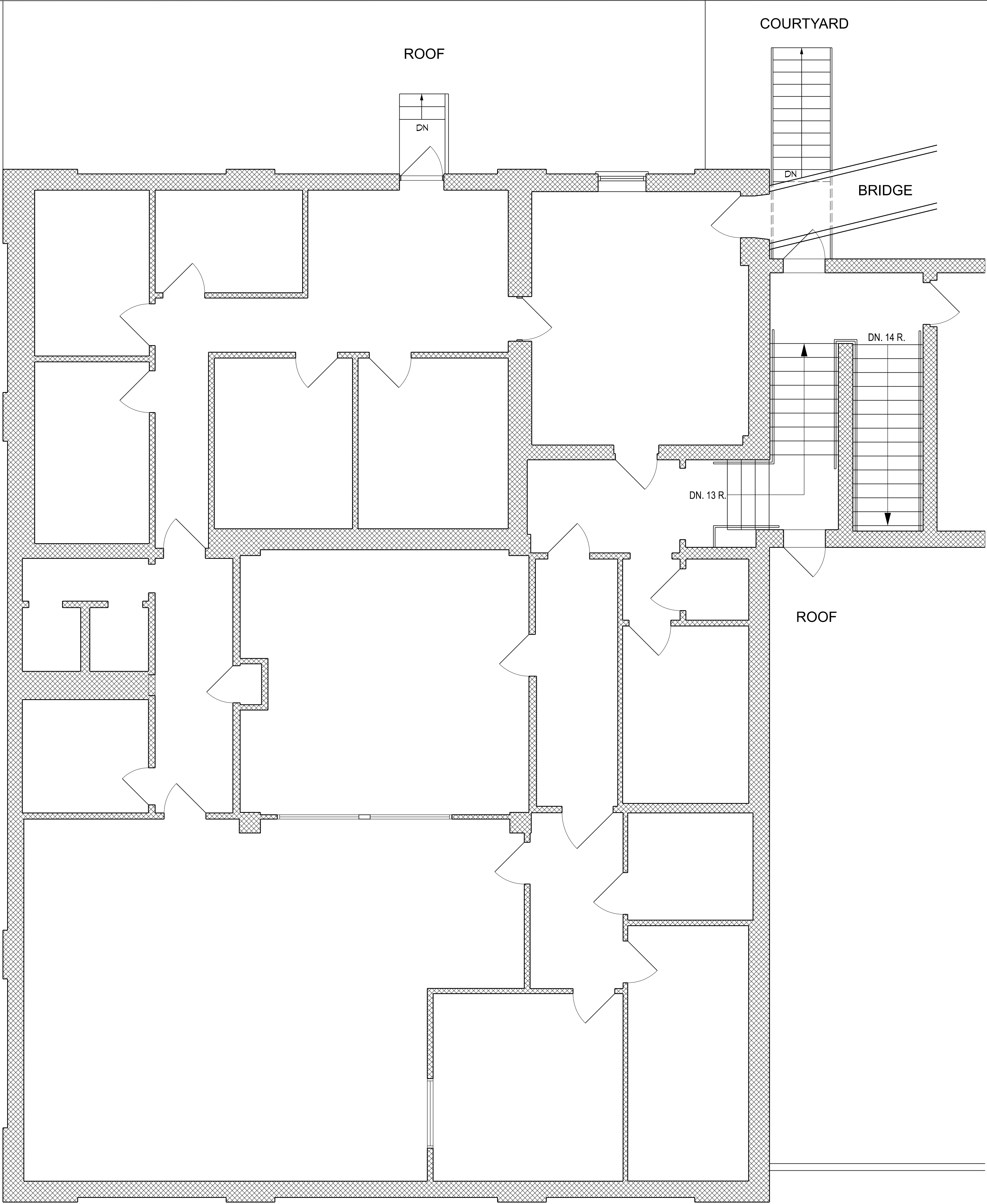
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RENOVATIONS FOR MBC CODE ENFORCEMENT OFFICES 2ND FLOOR / CITY HALL CORNER FIRST & POPLAR ST. MACON, GA

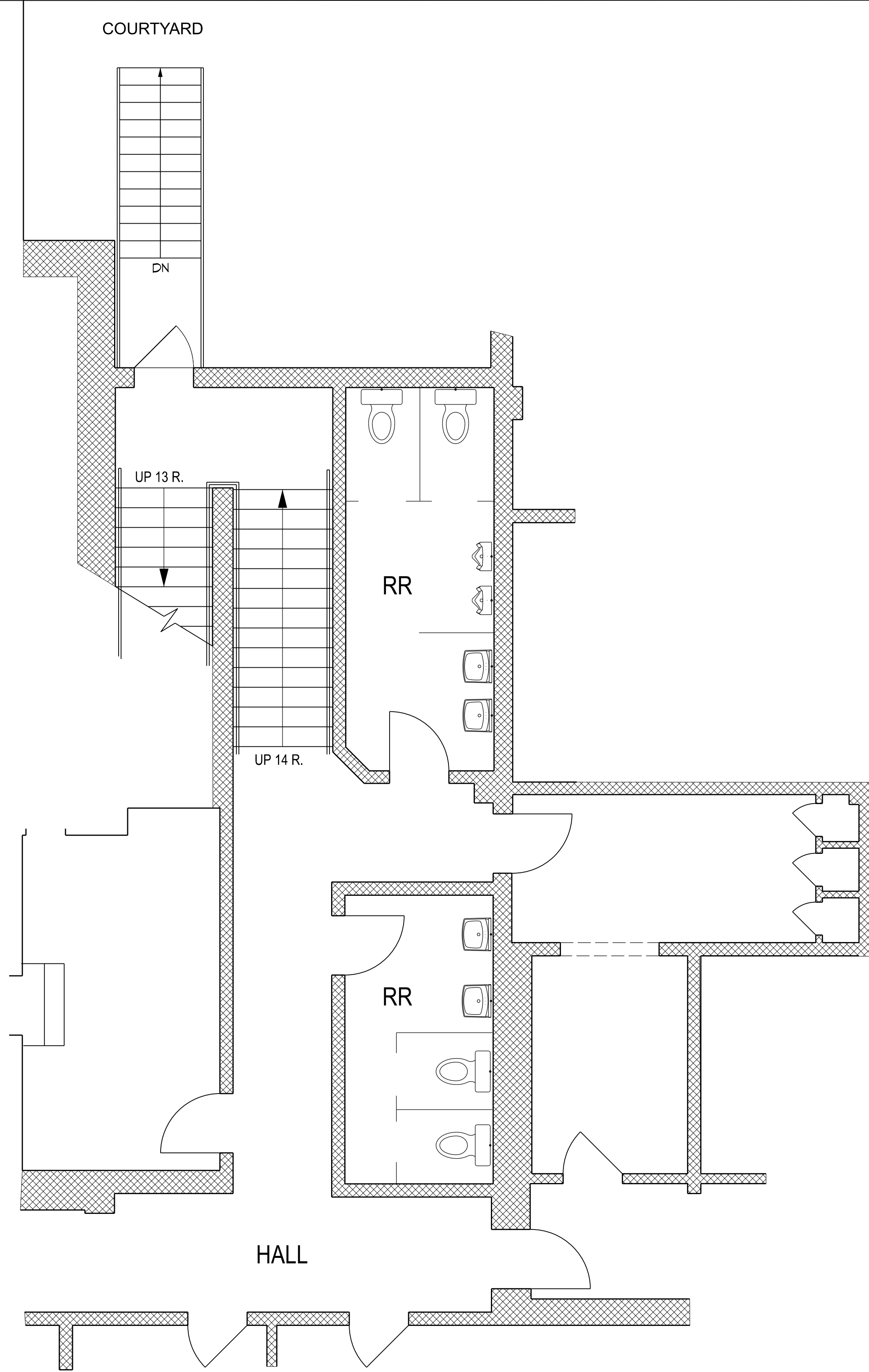
Drawing Issue Schedule	
2-14-2025	Permit Set
Project No:	2024-34

Partial Second
Floor Reflected
Ceiling Plan
A8.1

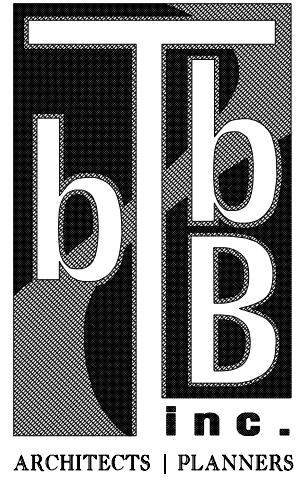
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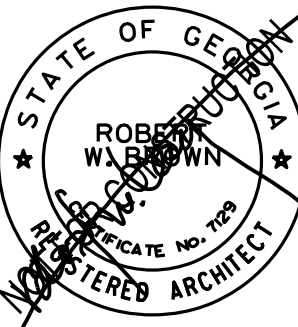
PARTIAL EXISTING SECOND FLOOR PLAN
3,646 NET S.F. 1/4" = 1'-0"



PARTIAL EXISTING FIRST FLOOR PLAN
1/4" = 1'-0"



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**RENOVATIONS FOR
MBC CODE ENFORCEMENT OFFICES
2ND FLOOR / CITY HALL**
CORNER FIRST & POPLAR ST. MACON, GA

Drawing Issue Schedule	
2-14-2025	Permit Set
Project No:	2024-34

Partial Existing
First & Second
Floor Plans

EX1.1

PLUMBING SPECIFICATIONS

Provide all plumbing items indicated on the drawings, described herein or otherwise required for a complete and proper installation, including:

- A. Plumbing fixtures, fittings and equipment.
- B. Hot and cold water systems.
- C. Drain waste and vent piping systems.
- D. Indirect waste piping, including all valves, traps, piping and accessories for all equipment. Size per equipment requirements.

Comply with all applicable codes, standards and ordinances, including requirements of the Georgia State Minimum Standard Plumbing Code (2018 International Plumbing Code with all Georgia State Amendments), Georgia State Minimum Standard Gas Code (2018 International Gas Code with all Georgia State Amendments), Georgia State Minimum Standard Energy Code (2015 International Energy Conservation Code with all Georgia State supplements and Amendments), and the DOJ 2010 ADA Standards for Accessible Design with Georgia Amendments of Rule 120-3-20.

The contractor should not attempt to precisely scale dimensions from these drawings to obtain construction dimensions and clearance. 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 to actual building construction, shall be made at no additional cost to the owner.

The submission of a bid or proposal will be construed as evidence that the contractor has familiarized himself with the plans and building site. Claims made subsequent to the proposal for materials and/or labor due to difficulties encountered will not be recognized unless these difficulties could not have been foreseen, even though proper examination had been made.

Fabrication or ordering of any material or equipment prior to verification of site conditions shall be done at the contractor's risk.

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.

Coordinate with all trades and verify all equipment rough-in items and locations with the equipment supplier or contractor. All re-work and corrections required due to lack of coordination shall be the contractor's responsibility, and done at no cost to the owner.

Submit shop drawings and material data submittals to the engineer for approval before installation. No substitutions shall be allowed without prior approval by the engineer. Product data for piping, insulation, valves, specialties and all fixtures and equipment scheduled and specified here. For each submittal for review, allow 15 days excluding delivery time to and from the Contractor.

All equipment and flue materials shall be U.L. listed.

Installation shall comply with manufacturer requirements including all clearances recommended for proper operation of service. All serviceable parts shall be readily accessible.

Sanitary drain and vent piping shall be ASTM D2665 schedule 40 PVC with PVC Socket Fittings (ASTM D 2665, made to ASTM D 3311, drain, waste, and vent patterns and to fit Schedule 40 pipe). Slope pipe sizes 6" and under at 1/8 inch per foot continuously toward public sewer. Slope pipe sizes 8" and larger at 1/16 inch per foot continuously toward public sewer. All aboveground piping shall be adequately supported. Install underground, PVC plastic drainage piping according to ASTM D2321. Install aboveground PVC piping according to ASTM D 2665. Cellular Core PVC (Foam Core PVC) not acceptable. Provide PVC IFEX type 1 expansion joints on alternating floors on horizontal sewer, storm, and vent risers over 30 feet tall. Wrap piping in return air plenums with fire barrier plenum rated wrap.

Insulate all horizontal aboveground roof drainage piping with 1 inch flexible fiberglass insulation with FSK jacket.

Insulate aboveground floor drains, traps, and sanitary drain piping within 10 feet of drain receiving condensate and equipment drain water below 60" with 1" thick type I performed glass-fiber pipe insulation, 1-1/2" cellular glass, or 1" flexible elastomeric.

All above ground domestic water distribution piping shall be ASTM D 2846, SDR11, schedule 40 CPVC with socket fittings. All piping shall be adequately supported. Disinfect all domestic water piping after installation. All underground domestic water distribution piping 1" and smaller shall be ASTM D 876 & ASTM F 877 PEX with no fittings underground. All underground domestic water distribution piping 1-1/4" and larger shall be ASTM D 1785 schedule 40 PVC with ASTM D 2466 PVC socket fittings. Wrap piping larger than 2" in return air plenums with fire barrier plenum rated wrap.

DOMESTIC WATER PIPING CLEANING

- A. Clean and disinfect potable domestic water piping as follows:
 - 1. Purge new piping and parts of existing piping that have been altered, extended, or repaired before using.
 - 2. Use purging and disinfecting procedures prescribed by authorities having jurisdiction; if methods are not prescribed, use procedures described in either AWWA C651 or AWWA C652 or follow procedures described below:
 - a. Flush piping system with clean, potable water until dirty water does not appear at outlets.
 - b. Fill and isolate system according to either of the following:
 - 1) Fill system or part thereof with water/chlorine solution with at least 50 ppm (50 mg/L) of chlorine. Isolate with valves and allow to stand for 24 hours.
 - 2) Fill system or part thereof with water/chlorine solution with at least 200 ppm (200 mg/L) of chlorine. Isolate and allow to stand for three hours.
 - c. Flush system with clean, potable water until no chlorine is in water coming from system after the standing time.
 - d. Repeat procedures if biological examination shows contamination.
 - e. Submit water samples in sterile bottles to authorities having jurisdiction.
- B. Prepare and submit reports of purging and disinfecting activities. Include copies of water-sample approvals from authorities having jurisdiction.
- C. Clean interior of domestic water piping system. Remove dirt and debris as work progresses.

Domestic water piping shall be insulated with Owens Corning type AS/SSL-II heavy density fiber glass with all service jacket. Insulation shall have a flame spread rating not to exceed 25 and a smoke density not to exceed 50 when tested in accordance with U.B.C. standard 42-1. Provide mastic on all joints and exposed ends of insulation. Insulate domestic Cold water piping in unconditioned spaces such as exterior corridors, attic, basements, etc with 1/2" thick insulation for piping 1-1/4" & smaller and 1" thick insulation for piping 1-1/2" & larger. Insulate all domestic Hot water supply and return piping with 1" thick insulation for piping 1-1/4" & smaller and 1-1/2" thick insulation for piping 1-1/2" & larger.

HW & CW Valves: Use pipe size valves, as shown below:

- A. Ball: Spears CPVC True Union.
- B. Check: Spears CPVC True Union.

Ball-Valve-Type Hose-End Drain Valves shall comply with MSS SP-110 for standard-port, two-piece ball valves. Copper alloy body, 3/4", 400-psig pressure rating, replaceable seats and seals, vinyl-covered steel handle, threaded short nipple outlet with garden-hose thread complying with ASME B1.20.7 and cap with brass chain.

Balancing valves shall confirmed to MSS SP-110 for two-piece, copper-alloy ball valves. Balancing valves shall be copper alloy, memory-stop type, chrome-plated brass ball, replaceable seats & seals, vinyl-covered steel handle with memory-setting device.

Fixture tailpieces, wall escutcheon, and traps for lavatories and sinks shall be brass tubing, semi-cast, or cast iron. All brass tubing shall be 17 gage, chrome plated. Exception: If the fixture tailpieces and traps are located in cabinets, the tailpiece & trap shall be PVC. Grid drains for public lavatories. Basket strainers for break room sinks.

Water Hammer Arresters shall comply with standard ASSE 1010, metal bellows type or copper piston type.

For accessible-fixture support include rectangular steel uprights. Lavatory Supports shall be type II, lavatory carrier with concealed arms and tie rod for wall-mounting, lavatory-type fixture. Include steel uprights with feet. For accessible-fixture support include rectangular steel uprights. Plate type wall hangers for water coolers. Water closet carrier shall be ASME A112.6.1M waste-fitting assembly, as required to match drainage piping material and arrangement with faceplates, couplings gaskets, and feet; bolts and hardware matching fixture. Include additional extension coupling, faceplate, and feet for installation in wide pipe space if required.

Thermometers hall comply with standard ASME B40.200.

Lavatory/ Sink supply fittings: NSF Standard: Comply with NSF/ANSI 61 Annex G, "Drinking Water System Components - Health Effects," for supply-fitting materials that will be in contact with potable water. Standard: ASME A112.18.1/CSA B125.1. Supply Stops: Chrome-plated-brass, one-quarter-turn, ball-type valve with inlet connection matching supply piping. Wheel handle operation. Risers: Chrome-plated, soft-copper flexible tube for exposed applications and ASME A112.18.6, braided- or corrugated-stainless-steel, flexible hose for conceal behind cabinet applications.

Provide ADA Supply and Drain Protective Shielding Guards on ADA fixtures that piping is exposed. Supply and Drain Protective Shielding Guards shall comply with ICC A117.1 and Americans with Disabilities Act (ADA) requirements. Manufactured plastic wraps shall cover hot and cold water supplies, trap, and drain piping.

All pipe hangers, clamps and channels shall be adequately sized to carry pipe loads and prevent sagging.

All other materials not specifically described but required for a complete and proper installation of work of this section, shall be new, first quality of their respective kinds, and as selected by the contractor subject to acceptance by the engineer.

Lay out the plumbing system in careful coordination with the drawings, determining proper elevations for all components of the system and using only the minimum number of bends to produce a satisfactorily functioning system. Follow the general layout shown on the drawings in all cases except where other work may interfere. Unless shown otherwise, lay out all pipes to fall within partition, wall floor, or roof cavities, and to not require turning other than as shown on the drawings.

Do not cut into or reduce the size of any load-carrying member without the prior approval of the architect. Install all pipes to clear all beams and obstructions.

Permanently close and make weatherproof any openings or penetrations of the building envelope made for plumbing systems. All wall and floor penetrations shall be sleeved. All exterior wall or foundation wall penetrations shall use a mechanical seal.

Coordinate all roof penetrations with architectural plans and building and roofing trades.

Provide shut-off balls valves and unions at all water connections to equipment and appliances.

Isolate all dissimilar metals with "EPCO" dielectric unions, except for brass or bronze valves with steel pipe.

Protect the potable water supply against backflow and siphonage from equipment, fixtures, etc., using approved backflow and anti-siphon devices.

Thoroughly clean all piping and equipment. Removing all dirt, rust, oil, and plaster.

Test Sanitary and storm drainage piping by plugging all openings and filling with water to a height equal to a 10 foot head. Allow to stand one hour or longer as required. Repair leaking joints and then re-test.

No work shall be covered until it has been inspected and accepted by the local authority.

Domestic water piping tests: Fill domestic water piping. Check components to determine that they are not air bound and that piping is full of water. Test for leaks and defects in new piping and parts of existing piping that have been altered, extended, or repaired. Leave new, altered, extended, or replaced domestic water piping uncovered and un concealed until it has been tested and approved. Expose work that was covered or concealed before it was tested. Cap and subject piping to static water pressure of 50 psig (345 kPa) above operating pressure, without exceeding pressure rating of piping system materials. Isolate test source and allow it to stand for four hours. Leaks and loss in test pressure constitute defects that must be repaired. Repair leaks and defects with new materials, and retest piping or portion thereof until satisfactory results are obtained.

The entire system shall be warranted for a period of one (1) year beginning with Owner's acceptance of the work. 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 or replacement.

Install piping in concealed locations, unless otherwise indicated and except in equipment rooms, and service areas. Install piping indicated to be exposed and piping in equipment rooms and service areas at right angles or parallel to building walls. Diagonal runs are prohibited unless specifically indicated otherwise. Install piping above accessible ceilings to allow sufficient space for ceiling panel removal. Install piping to permit valve servicing. Install piping at indicated slopes. Install piping free of sogs and bends. Install fittings for changes in direction and branch connections. Install piping to allow application of insulation. Select system components with pressure rating equal to or greater than system operating pressure. Install escutcheons for penetrations of walls, ceilings, and floors. Verify final equipment locations for roughing-in.

Confirm that millwork is constructed with adequate provision for the installation of counter top lavatories and sinks.

Seal fixtures to wall and floor surfaces with sealant, color to match fixture.

All vents thru wall (SWVT) shall be offset a minimum of 10"-0" from all outside air intakes.

Provide Plastic Pipe Markers on all aboveground plumbing piping that Comply with ASME A13.1. Minimum information indicating flow direction arrow and identification of fluid being conveyed. Install labeling on pipe at intervals of not more than 20 feet and at least once in each room.

Provide a complete through penetration fire stopping assembly for fire resistance rated wall assemblies. The through penetration assembly must be listed by an approved third-party test agency (UL), and include the entire listed assembly with all notations. Refer to architectural drawings for fire wall locations.

Approved manufactures: (Items submitted shall be approved by architect and engineer. Architect and engineer reserve the right to reject any item substituted for basis of design item for any reason.)

China Fixtures: American Standard, Kohler, Toto, Zurn, Sloan
Faucets: Delta, T&S Brass, Chicago Faucets, Zurn, Kohler, Grohe, Moen, Speakman, Symmons
Supplies & Traps: Engineered Brass CO., McQuire, Charlotte Pipe, Brasscraft, IPS, Watts, Zurn
Water Heaters: A.O. Smith, Lochinar, Bradford White, State, Rheem
Toilet Seats: Bemis, Centoco, Church Seats, Olsonite, Beneke, Zurn, Mainline
Stainless Steel Sinks: Dayton, Elkay, Just, Kohler, Moen, Sterling, Franke
ADA Protective Shielding Pipe Covers: Engineered Brass, McGuire, Plumbrex, TRUEBRO, Zurn, Oatey
Fixture Supports: MIFAB, Jay R. Smith, Wade, Watts, Zurn
Expansion Tanks: AMTROL, State, Watts, Wilkins
Outlet Boxes: Acorn, IPS, Oatey
Brass Valves: American, Crane, Watts, Apollo
CPCV Valves: American, NIBCO, Spears
Circulation Pumps: Armstrong, Bell & Gossett, Grundfos, TACO

FIXTURE AND EQUIPMENT SCHEDULE

#	FIXTURE TYPE	WASTE		WATER SUPPLY		WATER FIX. CONN.		MODEL NUMBER
		BELOW FLOOR	FIXTURE CONN.	COLD	HOT	COLD	HOT	
WC1	TANK TYPE ADA WATER CLOSET	3"	3"	1/2"		1/2"		AMERICAN STANDARD 215AA-104 WATER CLOSET. CENTOCO 500STSCSS SEAT
WC2	TANK TYPE ADA WATER CLOSET -RIGHT HAND TRIP LEAVER	3"	3"	1/2"		1/2"		AMERICAN STANDARD 215AA-105 WATER CLOSET. CENTOCO 500STSCSS SEAT
LAV	ADA DROP-IN LAVATORY	2"	1-1/4"	1/2"	1/2"	1/2"	1/2"	AMERICAN STANDARD 0475.020 LAVATORY. MOEN 8413F05 FAUCET.
SNK	BREAK ROOM SINK	2"	1-1/2"	1/2"	1/2"	1/2"	1/2"	ELKAY GE23321 SINK. MOEN 7594 FAUCET.
OB	ICE MAKER BOX WITH WATER HAMMER ARRESTOR			1/2"		1/2"		WATER TITE AB9701HA.
SWVT	SIDE WALL VENT TERMINAL	3"	3"					WATTS MS-8000.

NOTE: CONTRACTOR SHALL SUBMIT PLUMBING FIXTURE TO OWNER FOR APPROVAL BEFORE PURCHASING FIXTURE.

WATER HEATER & TANK SCHEDULE

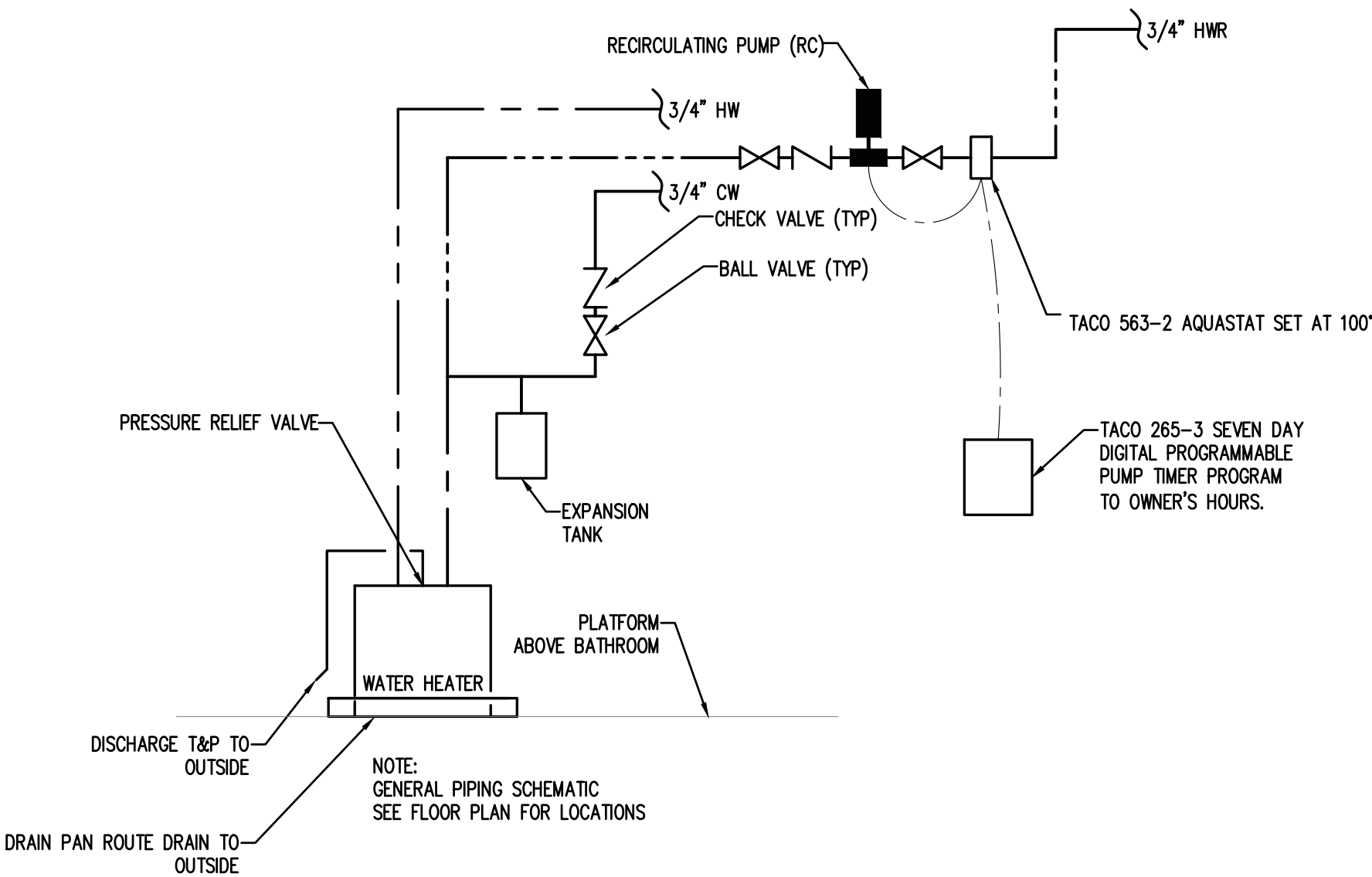
MARK	MANUFACTURER	MODEL NUMBER	TYPE	GPH @100' RISE	GALLON	KW	PHASE	VOLTAGE
WH	A.O. SMITH	ENLB-40	RESIDENTIAL LOWBOY ELECTRIC	21	38	4.5	1	208
ET	ZURN/WILKINS	XT-8	EXPANSION TANK		2.1			

PUMP SCHEDULE

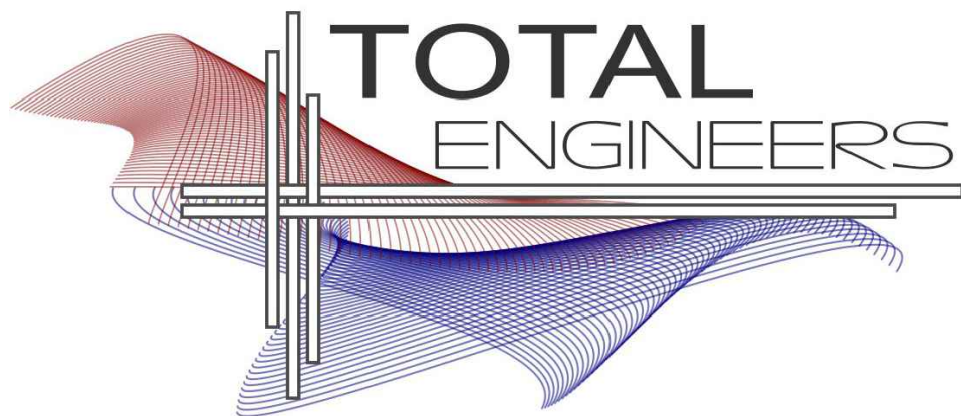
MARK	PUMP TYPE	BASIS OF DESIGN MANUFACTURER	MODEL NUMBER	RPM	WATTS	GPM	FEET HEAD	*ELECTRICAL VOLTS PHASE
RC	RECIRCULATING	TACO	006e3	1140-3720	44	0.5	3.75	120 1

LEGEND

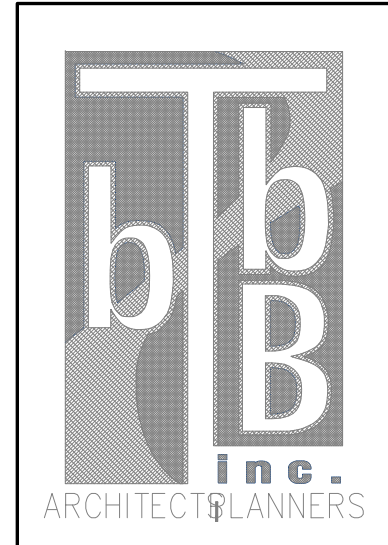
	SHUTOFF VALVE		COLD WATER	(TYP)	TYPICAL		VENT THRU ROOF
	CHECK VALVE		HOT WATER	C.T.	COUNTER-TOP		ABOVE FINISHED FLOOR
	PIPE UP		HOT WATER RETURN	DN	DOWN		COLD WATER
	PIPE DOWN		GAS	CONN.	CONNECTION		HOT WATER
	PDI UNIT WATER HAMMER ARRESTOR		GREASE	NTS	NOT TO SCALE		HWR
	DWGS. DRAWINGS		SEWER VENT	VT	VENT		B.F.F.
	COMPRESSED AIR		SEWER	FTE	FINISHED FLOOR ELEVATION		CV
	PRESSURE REDUCING/REGULATOR VALVE		FIRE SPRINKLER	FLR	FLR		
	DEMOLITION		EXISTING TO REMAIN		CONNECT TO EXISTING		



WATER HEATER (WH) PIPING SCHEMATIC
SCALE: N.T.S.



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RENOVATIONS FOR
MBC CODE ENFORCEMENT OFFICES
2ND FLOOR / CITY HALL
CORNER FIRST & POPLAR ST. MACON, GA

Drawing Issue Schedule	
2-14-2025	Permit Set
Project No:	2024-34

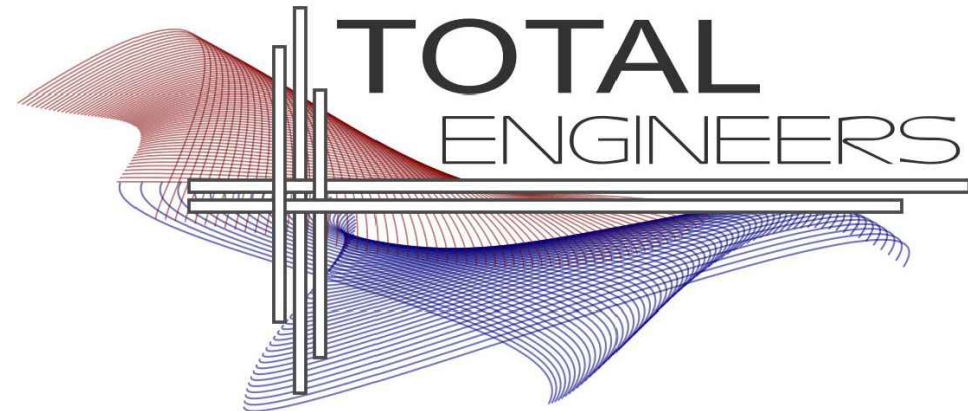
PLUMBING
SPECIFICATIONS

P0.1

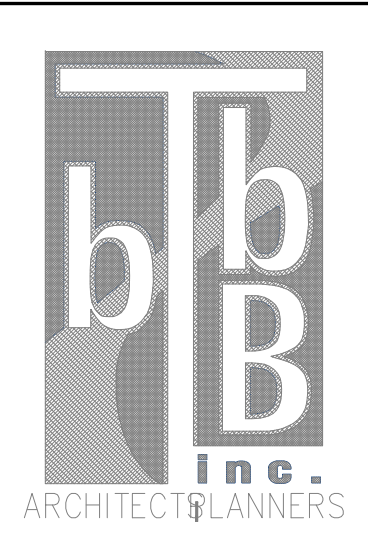


- KEY NOTES (THIS SHEET ONLY):
- ① 3" EXISTING CAST IRON SEWER RISER.
 - ② CONNECT TO NEAREST SEWER STACK AT ABOVE CEILING OF FIRST FLOOR.

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



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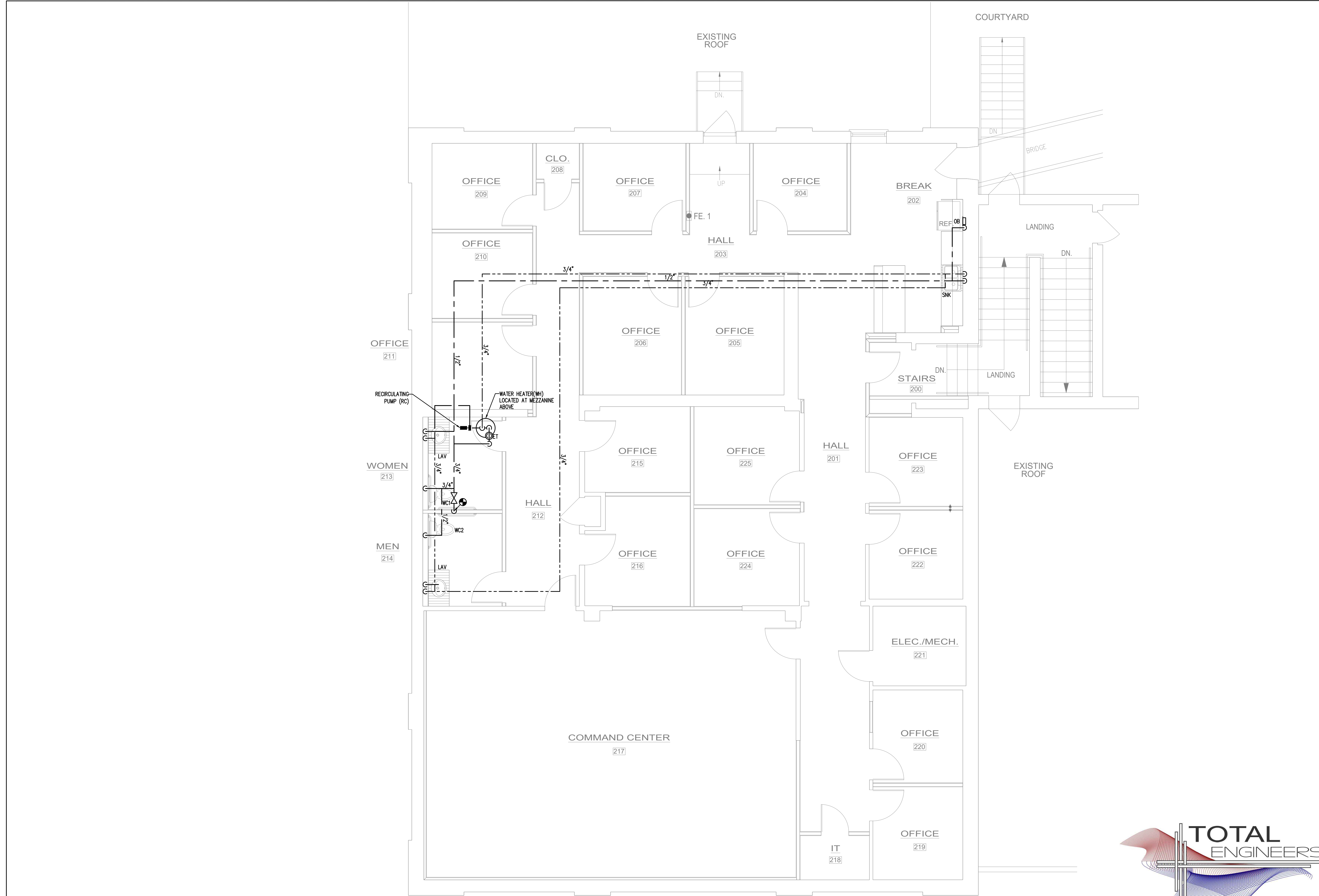


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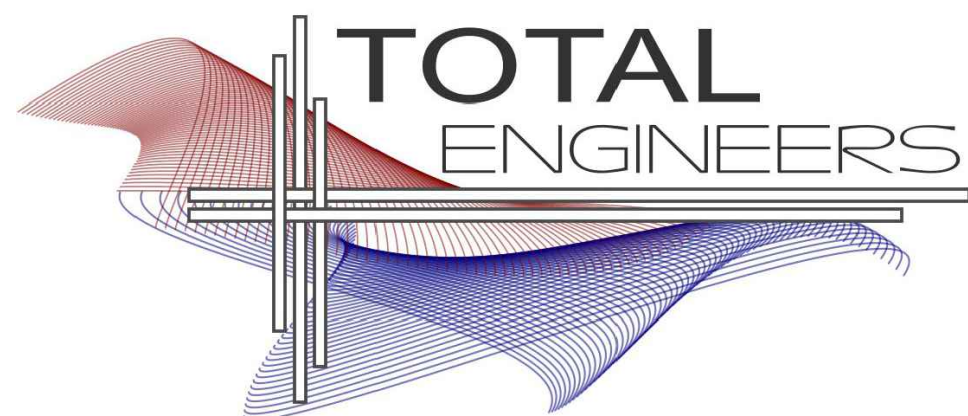
RENOVATIONS FOR
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2ND FLOOR / CITY HALL
CORNER FIRST & POPLAR ST. MACON, GA

Drawing Issue Schedule	
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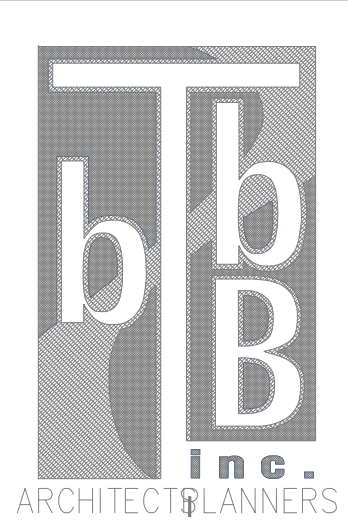
PLUMBING
PLAN - SEWER
P2.0



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



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RENOVATIONS FOR
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CORNER FIRST & POPLAR ST. MACON, GA

Drawing Issue Schedule	
2-14-2025	Permit Set
Project No:	2024-34

PLUMBING
PLAN - WATER
P2.1

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-inches of metal duct at penetration of draft stops, fire walls and smoke walls.
- 12) Duct Liner: Owens Corning Aeroflex Plus, or equivalent. Incombustible glass fiber complying with ASTM C 1071; flexible blanket; impregnated surface and edges coated with acrylic polymer shown to be fungus and bacteria resistant by testing to ASTM G 21. Apparent Thermal Conductivity: Maximum of 0.31 at 75 degrees F. Service Temperature: 250 degrees F. Density: 1.5 pounds/cubic foot. Install using adhesive (50% coverage) and galvanized steel fasteners with welded press-on head Thickness: 1-inch.
- 13) Condensate drain piping shall be ASTM D2665 PVC with solvent welded fittings. Drain piping shall be no smaller than the drain connection size on equipment. Slope at 1/8 inch per foot continuously toward drains. All indoor condensate drain piping shall be insulated with preformed flexible plastic cellular foam. All outdoor condensate drain piping shall be primed and painted with a coating system recommended by the piping manufacturer for protection against deterioration from weather and UV-light exposure. All piping shall be adequately supported to maintain proper slope and avoid sagging.
- 14) Provide fire and smoke rated flexible connections between fans and ducts. Material shall comply with NFPA 90A requirements for material in supply air stream.
- 15) Install all equipment in accordance with manufacturer's instructions and recommendations including clearances recommended for proper operation or service. All filters and serviceable parts shall be readily accessible.
- 16) 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.
- 17) All supply, return and outside air ducts shall be insulated. All bathroom exhaust ducts, kitchen exhaust ducts, and dryer exhaust ducts shall be insulated. Exhaust ducts shall be installed with a 1/8" slope to outside. Install acoustical duct liner on the interior surface of the first five (5) linear feet of supply duct downstream and the last five (5) linear feet of return duct upstream of all air handlers and rooftop units. 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.
- 18) 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.
- 19) Make all duct elbows right angle type with single -thickness turning vanes or construct with centerline radius 1-1/2 times the duct width.
- 20) Duct sizes shown on plans are clear, interior dimensions. Duct sizes shown shall be enlarge to allow for liner at locations of interior liner.
- 21) Do not cut into or reduce the size of any structural member without the permission of the Architect.
- 22) Provide weather-proof flashing at all duct and pipe penetrations through the building walls and roof. As a minimum, flashings shall be designed and installed in accordance with SMACNA standards. Flashings shall be guaranteed weatherproof.
- 23) 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.
- 24) Thoroughly clean all components and remove all dirt, scale, oil, and other foreign substances. Provide clean air filters for all equipment.
- 25) 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:
- Airflow rate at each supply, return and exhaust outlet or inlet.
 - Total airflow rate and total static pressure for each supply and exhaust fan. Test exhaust fans with room doors closed.
 - Motor speed, for multiple speed fans (e.g. high, medium, low).
 - For direct drive fans, provide speed settings and actual rpm, including ECM motor driven fans
 - Provide fan and motor rpm for belt driven fans. Provide sheave sizes.
 - Outside airflow rate to each HVAC unit and supply fan.
 - Motor current (and compare with nameplate data) at all motors.
 - Entering and leaving air dry-bulb and wet-bulb conditions at all cooling coils.
 - Heat output capacity for unit heaters, heating devices and coils (kW or MBH).
 - Manufacturer, model and serial number for each piece of HVAC equipment scheduled on drawings.
 - Calibrate thermostats to be within one degree of actual temperature at thermostat.
 - Verify that all HVAC devices operate as scheduled or indicated (i.e. ON-OFF, 2-stage, variable output (SCR heaters), etc.
- 26) 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 or replacement.

27) SUBMITTALS AND SUBMITTAL PROCEDURES:

- 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.
- Transmit each submittal electronically in PDF format.
- 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.
- 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.
- 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.
- 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.
- Deliver submittals electronically to the Design Professional.
- Schedule submittals to expedite the Project, and coordinate submission of related items.
- For each submittal for review, allow 15 days excluding delivery time to and from the Contractor.
- Identify variations from Contract Documents and Product or system limitations that may be detrimental to successful performance of the completed Work.
- Provide space for the Contractor and the Architect/ review stamps.
- When revised for resubmission, identify all changes made since previous submission.
- Distribute copies of reviewed submittals as appropriate. Instruct parties to promptly report any inability to comply with requirements.
- Submittals not requested will not be recognized or processed.
- Provide files containing only related items (such as piping, equipment, air distribution, etc.)

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

29) Provide an operation and maintenance manual. As a minimum, the manual shall contain:

- A complete list of all equipment and appurtenances with equipment designations (per Drawings), manufacturers, and catalog numbers.
- Copies of manufacturers' brochures and instructions for operation and maintenance of all mechanical equipment, including replacement parts lists.
- Typed system operation and maintenance instructions, including inspection, lubrication, and service instructions and schedules.
- List of names, addresses and phone numbers of distributors of all equipment and appurtenances.
- Manufacturers' warranties.

30) Indoor, direct-expansion, wall-mounted fan coil. Unit shall be complete with cooling/heating coil, fan, fan motor, piping connectors, electrical controls, microprocessor control system, and integral temperature sensing. Unit shall be furnished with integral wall mounting bracket and mounting hardware. Cabinet discharge and inlet grilles shall be attractively styled, high-impact polystyrene. Cabinet shall be fully insulated for improved thermal and acoustic performance. Fan shall be tangential direct-drive blower type with air intake at the top of the unit and discharge at the bottom front. Automatic, motor-driven vertical air sweep shall be provided standard. Air sweep operation shall be user selectable. The vertical sweep may be adjusted (using the remote control) and the horizontal air direction may be set manually. Coil shall be copper tube with aluminum fins and galvanized steel tube sheets. Fins shall be bonded to the tubes by mechanical expansion and golden hydrophilic pre-coated. A drip pan under the coil shall have a drain connection for hose attachment to remove condensate. Condensate pan shall have internal trap. Motors shall be open drip-proof, permanently lubricated ball bearing with inherent overload protection. Fan motors shall be 4-speed. Controls shall consist of a microprocessor-based control system which shall control space temperature, determine optimum fan speed, and run self-diagnostics. The temperature control range shall be from 62°F to 86°F (17°C to 30°C) in increments of 1°F or 1°C, and have 46°F Heating Mode (Heating Setback). The wireless or wired remote controller shall have the ability to act as the temperature sensing location for room comfort. Refer to schedule for preference on wired or wireless thermostat. The unit shall have the following functions as a minimum: An automatic restart after power failure at the same operating conditions as at failure. A timer function to provide a minimum 24-hour timer cycle for system Auto Start/Stop. Temperature-sensing controls shall sense return air temperature. Indoor coil freeze protection. Wireless infrared remote control and/or wired remote control as scheduled to enter set points and operating conditions. Automatic air sweep control to provide on or off activation of air sweep louvers. Dehumidification mode shall provide increased latent removal capability by modulating system operation and set point temperature. Fan-only operation to provide room air circulation when no cooling is required. Diagnostics shall provide continuous checks of unit operation and warn of possible malfunctions. Error messages shall be displayed at the unit. Fan speed control shall be user-selectable: high, medium, low, or microprocessor controlled automatic operation during all operating modes. Automatic heating-to-cooling changeover in heat pump mode. Control shall include deadband to prevent rapid mode cycling between heating and cooling. Indoor coil high temperature protection shall be provided to detect excessive indoor discharge temperature when unit is in heat pump mode. Unit shall have filter track with factory-supplied cleanable filters. Indoor fan motor to operate on 115V on model size 12 and on 208-230V on model sizes 09-36, as specified. Power is supplied from the outdoor unit. All units should have refrigerant lines that can be oriented to connect from the left, right or back of unit. Both refrigerant lines need to be insulated. The condensate pump shall remove condensate from the drain pan when gravity drainage cannot be used. Pump shall be designed for quiet operation. Pump shall consist of two parts: an internal reservoir/sensor assembly, and a remote sound-shielded pump assembly. A liquid level sensor in the reservoir shall stop cooling operation if the liquid level in the reservoir is unacceptable. Refer to schedule for providing condensate pump. Only provide condensate pump where indicated on schedule.

31) Small Split Condensing unit: Casing: House components in welded steel frame with galvanized steel panels with weather resistant, baked enamel finish. Mount contactors and controls in weatherproof panel provided with full opening access doors. Provide removable access doors or panels with quick fasteners. Compressor: Hermetically sealed, 3600 rpm maximum, resiliently mounted with positive lubrication and internal motor protection. Compressor: Hermetic reciprocating type or Hermetic scroll type. Condenser coils were: Aluminum fins mechanically bonded to seamless copper tubing or all aluminum fins and tube. Air test under water to 425 psig, and vacuum dehydrate. Seal with holding charge of refrigerant. Coil Guard: Louvered or PVC coat steel wire. Fans and motors: Direct driven propeller type condenser fans with fan guard on discharge. Weatherproof motors suitable for outdoor use, single phase permanent split capacitor with permanent lubricated ball bearings and built in thermal overload protection. Fan Guard: PVC coat steel wire. Refrigerant circuit: For each refrigerant circuit, provide: Filter dryer liquid line. Suction accumulator. Suction and liquid line service valves and gage ports. Charging valve. Condenser pressure relief mechanism. Factory wired with single point power connection. Factory wired controls shall include contactor, high and low pressure cutouts, internal winding thermostat for compressor, control circuit transformer, non-cycling reset relay. Provide a surge capacitor and lightning arrestor in unit cabinet for protection from power surges due to lightning and switching transients. Provide controls to permit operation down to 0 degrees F ambient temperature where scheduled to include: Crankcase heater with thermostat. Head pressure switch to cycle fan motors in response to refrigerant condensing pressure. Solid state control to vary speed of one condenser fan motor in response to refrigerant condensing pressure. Refer to Schedule on Drawings for additional specifications.

32) Provide a duct smoke detector on the supply duct of each air handling unit or rooftop unit with design airflows exceeding 2,000 CFM, and where smaller air handling units have common return ductwork or plenum and total air flow exceeds 2,000 CFM. Install detector in accordance with the International Mechanical Code section 606 Smoke Detection Control System with Georgia Amendments 2018. Detectors shall be provided by the electrical/fire alarm subcontractor and shall be installed by the mechanical subcontractor. For other fans, such as exhaust fans with design airflows exceeding 2,000 CFM, coordinate with the electrical/fire alarm subcontractor to provide room or duct smoke detectors. Where no fire alarm system is installed in building provide smoke detector, audio visual annunciator and trouble indicator in an approved location. Duct smoke detector trouble conditions shall activate a visible or audible signal in an approved location and shall be identified as air duct detector trouble. Provide contacts to automatically shut down all such fan motors when smoke is detected, to indicate detector status to the fire alarm system, and to require a manual reset of the shut-down relay.

33) Condensate pumps: Provide condensate pumps at each new air handler. Provide discharge tubing connected to pump discharge and route along with refrigerant piping to discharge adjacent to outdoor unit. Pump shall include Safety Switch, 6 ft. Power Cord, Thermal Overload Protector, Nylon Sump Pan, Control Float, check valve and Filter Screen. Manufacturer: Little Giant Model VQMA20ULS or equivalent. Minimum 18 gallon per hour at 12 ft. head capacity. Wire safety high level switch to stop unit if high water level condition occurs in sump. Provide 3/8" hard drawn copper for discharge at exposed location. Provide 3/8" vinyl tubing for discharge at concealed locations.

34) 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.

35) Basic motor requirements: basic requirements apply to mechanical equipment motors, unless otherwise indicated. Motors 1/2 hp and larger: Polyphase, unless otherwise scheduled. Motors smaller than 1/2 hp: single phase. Frequency rating: 60 Hz. Service factor: according to NEMA MG 1, general purpose continuous duty, design type "B." Enclosure: open drip-proof, unless otherwise indicated. Efficiency: motors shall have a higher efficiency rating than industry standard average motor as delineated in IEEE Standard 112, test method 13. Thermal protection: where indicated or required, internal protection automatically opens power supply circuit to motor when winding temperature exceeds a safe value calibrated to temperature rating of motor insulation. Thermal protection device automatically resets when motor temperature returns to normal range, unless otherwise indicated.

36) 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.

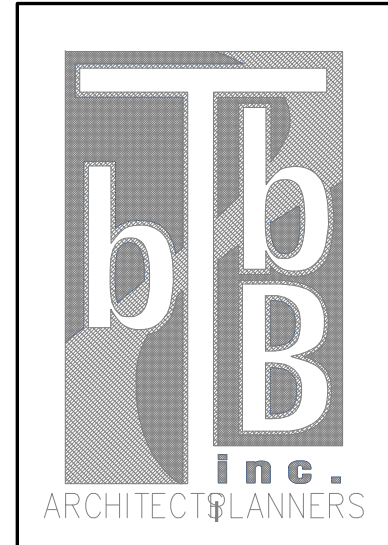
37) Sealant materials: joint and seam sealants, general: the term "sealant" is not limited to materials of adhesive or mastic nature but includes tapes and combinations of open-weave fabric strips and mastics. Joint and seam tape: 2 inches wide; glass-fiber fabric reinforced. Joint and seam sealant: 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 0.

38) All HVAC equipment such as AH, CU, EF, AC, HP, and RTU shall have visible nameplates with their associated marks on them.

39) Ceiling Ventilator shall have corrosion resistant galvanized steel housing with four-point mounting capability. It shall be ducted to a cap on wall or roof using round ductwork. Blower assembly shall be removable, have a centrifugal-type blower wheel and a permanently lubricated motor designed for continuous operation. Non-metallic damper/duct connector shall be included. Air delivery shall be no less than scheduled and sound level no greater than scheduled. All air and sound ratings shall be certified by HVI. Ceiling ventilator shall be Energy Star? qualified and have an energy efficient permanent split capacitor motor.

40) Acceptable Manufacturers are:

Small Split Units:	Mitsubishi, Daikin, Hitachi, Toshiba
Grilles, Registers & Diffusers:	Titus, Nailor, Price, Tuttle & Bailey, Kruger, Metal Aire(Color selection submitted to Architect)
Fans:	Twin-City, Cook, Greenheck, PennBarry, Acme, American CoolAir, Captive Air, Salar & Palau
Controls-provided with unit:	Provide thermostats by same manufacturer as equipment



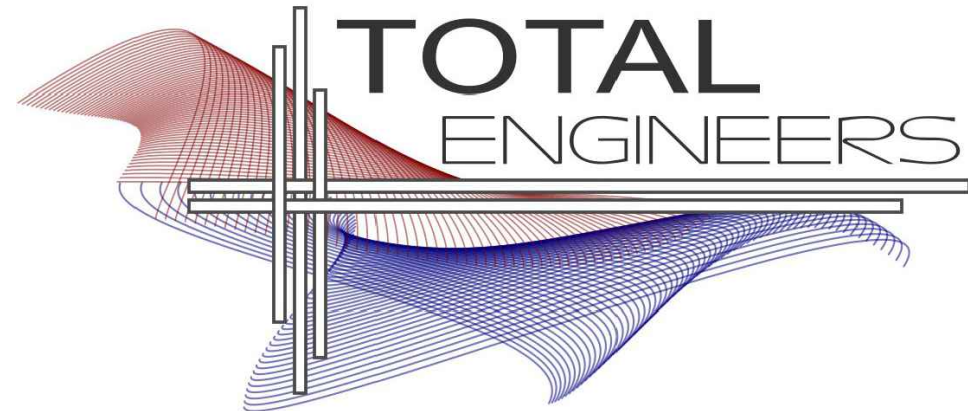
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RENOVATIONS FOR
MBC CODE ENFORCEMENT OFFICES
2ND FLOOR / CITY HALL
CORNER FIRST & POPLAR ST. MACON, GA

Drawing Issue Schedule	
2-14-2025	Permit Set
Project No:	2024-34



169 New Street, Macon, GA 31201
(478)741-4632 - T.E. project # 25-014
www.totalengineers.com

MECHANICAL
SPECIFICATIONS
MO.1

COMcheck Software Version 4.1.5.5
Mechanical Compliance Certificate

Project Information

Energy Code: 2015 IECC
Project Title: Renovations for MBC Code Enforcement Offices
Location: Atlanta, Georgia
Climate Zone: 3a
Project Type: Alteration

Construction Site: 545 1st St
Macon, GA 31201
Owner/Agent: Bob Brown
BTBB, Inc.
609 Cherry Street
Suite A
Macon, GA 31201-7398
478-742-1208
bbrown@btbbinc.com
Designer/Contractor:

Mechanical Systems List

Quantity System Type & Description

- 1 ACU-1 (Single Zone):
Split System Heat Pump
Heating Mode: Capacity = 18 kBtu/h,
Proposed Efficiency = 12.60 HSPF, Required Efficiency = 8.20 HSPF
Cooling Mode: Capacity = 18 kBtu/h,
Proposed Efficiency = 20.50 SEER, Required Efficiency: 14.00 SEER
Fan System: None
- 2 AH-EX-1 &2 (Single Zone):
Split System Heat Pump
Heating Mode: Capacity = 48 kBtu/h,
Proposed Efficiency = 8.20 HSPF, Required Efficiency = 8.20 HSPF
Cooling Mode: Capacity = 48 kBtu/h,
Proposed Efficiency = 14.00 SEER, Required Efficiency: 14.00 SEER
Fan System: None
- 1 WH:
Electric Storage Water Heater, Capacity: 40 gallons w/ Circulation Pump
Proposed Efficiency: 0.98 SL, %/h (if > 12 kW), Required Efficiency: 0.98 SL, %/h (if > 12 kW)

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 2015 IECC requirements in COMcheck Version 4.1.5.5 and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Grayson Yaun - Mechanical Engineer
Name - Title
Signature
Date 02/17/25

Project Title: Renovations for MBC Code Enforcement Offices
Report date: 02/17/25

1 MECHANICAL COMPLIANCE CERTIFICATE
SCALE: N.T.S

MECHANICAL SYMBOLS & ABBREVIATIONS LEGEND

	NEW PIPE, DUCTWORK OR EQUIPMENT
	DUCT SIZE: FIRST DIMENSION IS SIDE DRAWN
	FLEXIBLE ROUND DUCTWORK
	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
	REFRIGERANT PIPING
	CONDENSATE OR OTHER DRAIN PIPING
	ELBOW TURNED DOWN OR TURNED UP IN PIPING
	THERMOSTAT, ARROW SHOWS CONTROL WIRING PATH
	TIME CLOCK
	DIAMETER
	UNDER-CUT DOOR 3/4", UNLESS OTHER SIZE NOTED
	INDICATES EQUIPMENT ON PLANS; TOP ITEM SHOWS TYPE OF EQUIPMENT AND BOTTOM ITEM SHOWS SPECIFIC MARK NUMBER
	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
	ABOVE FINISHED FLOOR
	AIR HANDLING UNIT
	BYPASS DAMPER
	BRITISH THERMAL UNITS, THOUSAND BRITISH THERMAL UNITS
	CAPACITY
	CUBIC FEET PER MINUTE
	CEILING
	CONDENSING UNIT
	DRY BULB TEMPERATURE, WET BULB TEMPERATURE
	EXHAUST AIR, EXHAUST GRILLE
	EXHAUST FAN
	EXTERNAL STATIC PRESSURE (USUALLY EXPRESSED IN INCHES OF WATER IN GAGE)
	HEAT PUMP UNIT
	MANUAL VOLUME DAMPER
	OUTSIDE AIR
	RETURN AIR, RETURN GRILLE
	PACKAGED ROOFTOP UNIT
	SUPPLY AIR
	SUPPLY FAN FOR SHOP VENTILATION
	VOLTS ALTERNATING CURRENT, NUMBER OF PHASES
	WATTS, KILOWATTS
	UNIT HEATER
	AUDIBLE/VISUAL ALARM DEVICE CONNECTED TO DUCT SMOKE DETECTOR
	ACCESS DOOR
	RADIUS ELBOW (R=1.5)
	VANED ELBOW
	MANUAL VOLUME DAMPER (MVD), MOTOR OPERATED DAMPER (MOD)
	X INDICATES SECTION NUMBER/XX INDICATES ON WHICH DRAWING SECTION APPEARS
	CONNECT NEW TO EXISTING
	TERMINATION POINT OF DEMOLITION
	OCCUPANCY SENSOR, ENERGIZE UPON OCCUPANCY AND PROVIDE 15 MIN. DELAY TO "OFF" AFTER NO OCCUPANCY IS SENSED

EXISTING HEAT PUMP AIR HANDLING UNIT SCHEDULE

MARK	SUPPLY AIR CFM	OUTSIDE AIR CFM	EXT. SP. IN. W.G.	EVAP. FAN HP	EVAP. COIL ENTERING AIR DESIGN CONDITIONS		EVAP. COIL LEAVING AIR DESIGN CONDITIONS		SYSTEM COOLING MAX. REQUIREMENTS (MBH)		SUPL. HEAT KW	WEIGHT (LBS)	POWER VAC/PH	BASIS OF DESIGN CARRIER	NOTES
					DB F	WB F	DB F	WB F	TOTAL	SENSIBLE					
AH-EX-1	1480	210	0.60	3/4	78.0	62.5	55.0	54.0	43.3	33.8	---	200	208/1	FB4CNP048LOOEGAA	1:2:3:4:5:6:7:8:9
AH-EX-2	1480	210	0.60	3/4	78.0	62.5	55.0	54.0	43.3	33.8	---	200	208/1	FB4CNP048LOOEGAA	1:2:3:4:5:6:7:8:9
1. UNIT AT 208/14. UNIT SHALL HAVE SINGLE POINT CONNECTION. AIR-HANDLING UNIT WITH ECM MOTOR.															
2. VERIFY ELECTRIC POWER REQUIREMENTS WITH ELECTRICAL PLANS, WHICH TAKE PRECEDENCE OVER THIS INFORMATION.															
3. VERIFY AIR FILTERS, DUCT CONNECTIONS AND VIBRATION ISOLATION. EXISTING DDC THERMOSTAT SHALL BE REUSED.															
4. PROVIDE CONDENSATE TRAP(S) AS RECOMMENDED BY MANUFACTURER AND ROUTE CONDENSATE PIPING TO HUB DRAIN.															
5. PROVIDE AUXILIARY DRAIN PAN UNDER THE AIR HANDLERS WITH FLOAT ACTIVATED SWITCH TO SHUT THE UNIT DOWN IN CASE OF CONDENSATE OVERFLOW. REFER TO DETAIL PROVIDED.															
6. PROVIDE DUCT SMOKE DETECTOR IN SUPPLY AIR DUCT OF AIR-HANDLING UNIT.															
7. FLOAT ACTIVATED CONDENSATE SWITCH SHALL BE PROVIDED AND INSTALLED BY HVAC CONTRACTOR. DUCT SMOKE DETECTORS SHALL BE PROVIDED BY ELECTRICAL CONTRACTOR AND INSTALLED BY HVAC CONTRACTOR.															
8. PROVIDE COIL OUTLET SWITCH TO SHUT UNIT DOWN IN CASE OF CONDENSATE OVERFLOW. WIRE COIL OUTLET SWITCH IN SERIES WITH AUXILIARY CONDENSATE SWITCH LOCATED IN DRAIN PAN.															
9. PROVIDE GLOBAL PLASMA SOLUTIONS COMPACT SELF CLEANING IONIZATION SYSTEM. REFER TO SCHEDULE PROVIDED.															

EXISTING AIR COOLED HEATPUMP UNIT SCHEDULE

MARK	AHU SERVED	HEAT PUMP HEATING CAP (MBH)	SEER	HSFP	NOM. CAP. (TONS)	REFRIG	OA TEMP SUMMER (DB)	OA TEMP WINTER (DB)	WEIGHT (LBS)	POWER VAC/PH	BASIS OF DESIGN CARRIER	NOTES
HP-EX-1	AH-EX-1	45.6	14.0	8.2	4.0	R410A	96	23	200	208/1	25HCE448AP03	1:2:3
HP-EX-2	AH-EX-2	45.6	14.0	8.2	4.0	R410A	96	23	200	208/1	25HCE448AP03	1:2:3
1. VERIFY ELECTRIC POWER REQUIREMENTS WITH ELECTRICAL PLANS, WHICH TAKE PRECEDENCE OVER THIS INFORMATION. 2. EXISTING MOUNTING PAD AND HEAT PUMP UNIT TO REMAIN. 3. 1-STAGE COMPRESSOR UNIT.												

MINI SPLIT SYSTEM SCHEDULE

OUTDOOR UNIT MARK	INDOOR UNIT MARK	MIN COOLING MBH	MIN HEATING MBH @ 47F	SUPPLY AIR CFM	POWER VAC/PH	SEER2	HSFP2	CARRIER MODEL #		SERVES	NOTES
								OUTDOOR	INDOOR		
HPU-1	ACU-1	18.0	18.0	635	208/1	19.5	10.8	37MARAQ18AA3	45MAHAQ18XA3	221 ELEC./MECH.	1:2:3:4:5:6:7:8:9
1. VERIFY ELECTRICAL POWER REQUIREMENTS WITH ELECTRICAL PLANS WHICH TAKES PRECEDENCE OVER THIS INFORMATION. 2. ROUTE CONDENSATE AS NOTED ON PLANS. COORDINATE WITH PLUMBING. 3. CONDENSATE DRAIN SHALL BE PVC OR MANUFACTURER'S APPROVED PIPE MATERIAL. 4. CONTRACTOR MUST COORDINATE EXACT LOCATION OF DRAIN IN THE FIELD WITH PLUMBING CONTRACTOR. MECHANICAL MUST ROUTE CONDENSATE TO APPROPRIATE LOCATION OF DISPOSAL. 5. PROVIDE DISCONNECT AND ELECTRICAL CONNECTION TO OUTDOOR UNIT PER MANUFACTURER'S INSTRUCTIONS. 6. PROVIDE MANUFACTURER'S WIRED REMOTE CONTROLLER KSAN0501AA 7. PROVIDE RECTOR SEAL SS80RE CONDENSATE OVERFLOW SWITCH TO SHUT UNIT DOWN IN CASE OF CONDENSATE OVERFLOW. 8. MINI SPLIT SYSTEM MOUNTED ON WALL (SEE PLANS), PROVIDE MANUFACTURER'S WIRED THERMOSTAT. 9. PROVIDE FLOAT ACTIVATED CONDENSATE PUMP TO PUMP CONDENSATE DOWN TO DRAIN. PUMP SHALL BE INTEGRAL TO THE UNIT CABINET.											

FAN SCHEDULE

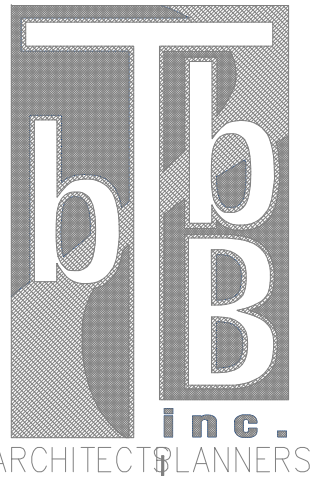
MARK	CFM	EXT. SP IN. W.G.	DRIVE TYPE	MOTOR (HP/W)	MAX SONES	POWER/ PHASE	BASIS OF DESIGN	SERVES	NOTES
EF-1	70	0.25	DIRECT	20.0 W	1.3	115/1	GREENHECK SP-B90	213 WOMEN	1:2:3:4:5
EF-2	70	0.25	DIRECT	20.0 W	1.3	115/1	GREENHECK SP-B90	214 MEN	1:2:3:4:5
1. VERIFY ELECTRIC POWER REQUIREMENTS WITH ELECTRICAL PLANS, WHICH TAKE PRECEDENCE OVER THIS INFORMATION. 2. INTERLOCK FAN WITH LIGHTS SUCH THAT FAN COMES ON WHEN LIGHTS ARE ON. ELECTRICAL TO PROVIDE 15 MINUTE TIME DELAY. 3. PROVIDE FACTORY SUPPLIED STATE FAN SPEED CONTROLLER. 4. DIRECT DRIVE CENTRIFUGAL CEILING FAN. PROVIDE FACTORY SUPPLIED DISCONNECT, BACK DRAFT DAMPER AND MOTOR WITH THERMAL OVERLOAD. 5. PROVIDE MANUFACTURER'S DESIGNER GRILLE.									

AIR DEVICE SCHEDULE

MARK	SERVICE	NECK SIZE	FACE SIZE	MATERIAL	TYPE	PATTERN	MOUNTING TYPE	LAYOUT BASIS	NOTES
S1	SUPPLY	SEE PLANS	24" X 24"	STEEL	SQUARE CONC.	4-WAY	LAY-IN	TMS	1:2:4
S2	SUPPLY	SEE PLANS	12" X 12"	STEEL	SQUARE CONC.	4-WAY	SURFACE	TMS	1:2:4
R1	RETURN	SEE PLANS	12"x24"	ALUMINUM	EGGCRATE	----	LAY-IN	50F	1:3
R2	RETURN	SEE PLANS	24"x24"	ALUMINUM	EGGCRATE	----	LAY-IN	50F	1:3
E1	EXHAUST	SEE PLANS	NECK+1-3/4"	ALUMINUM	LOUVERED	----	SURFACE	350RL	4
1. PROVIDE STANDARD WHITE FINISH. 2. INSULATE BACK OF DEVICE. 3. PROVIDE FULL SIZE LINED SHEET METAL PLENUM ON TOP OF GRILLE FOR CONNECTION. 4. BALANCE AIRFLOW TO QUANTITY SHOWN.									

SELF-CLEANING IONIZATION SYSTEM SCHEDULE

AIRFLOW CAPACITY MIN-MAX CFM	BASIS OF DESIGN GLOBAL PLASMA SOLUTIONS	NOTES
0-2400	GPS-FC24-AC	1:2:3:4
1. INTERLOCK IONIZATION SYSTEM TO RUN WITH EVAPORATOR FAN. 2. UNIT SHALL BE EQUIPPED WITH UNIVERSAL VOLTAGE INPUT, IN-LINE ON-OFF SWITCH, PROGRAMMABLE AUTO-CLEANING CYCLE. 3. UNIT SHALL BE EQUIPPED WITH PLASMA ON INDICATION LIGHT, ALARM CONTACTS, MAGNETS, AND CARBON FIBER BRUSH EMITTERS. 4. SYSTEM SHALL BE INSTALLED PER MANUFACTURER'S INSTRUCTIONS.		



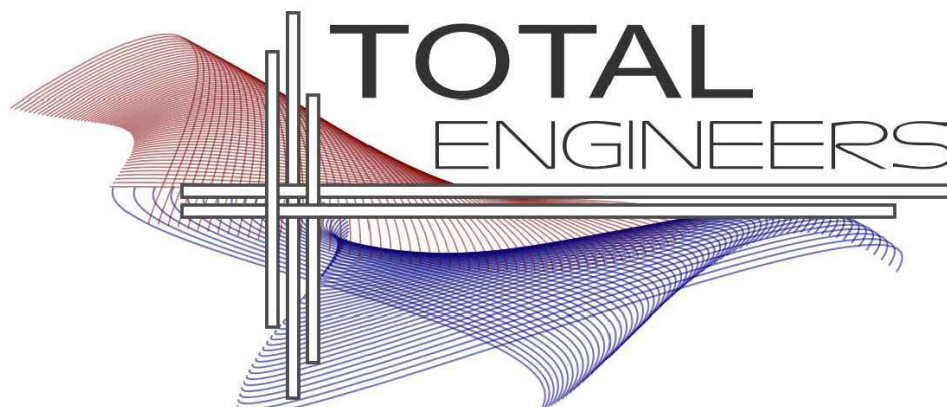
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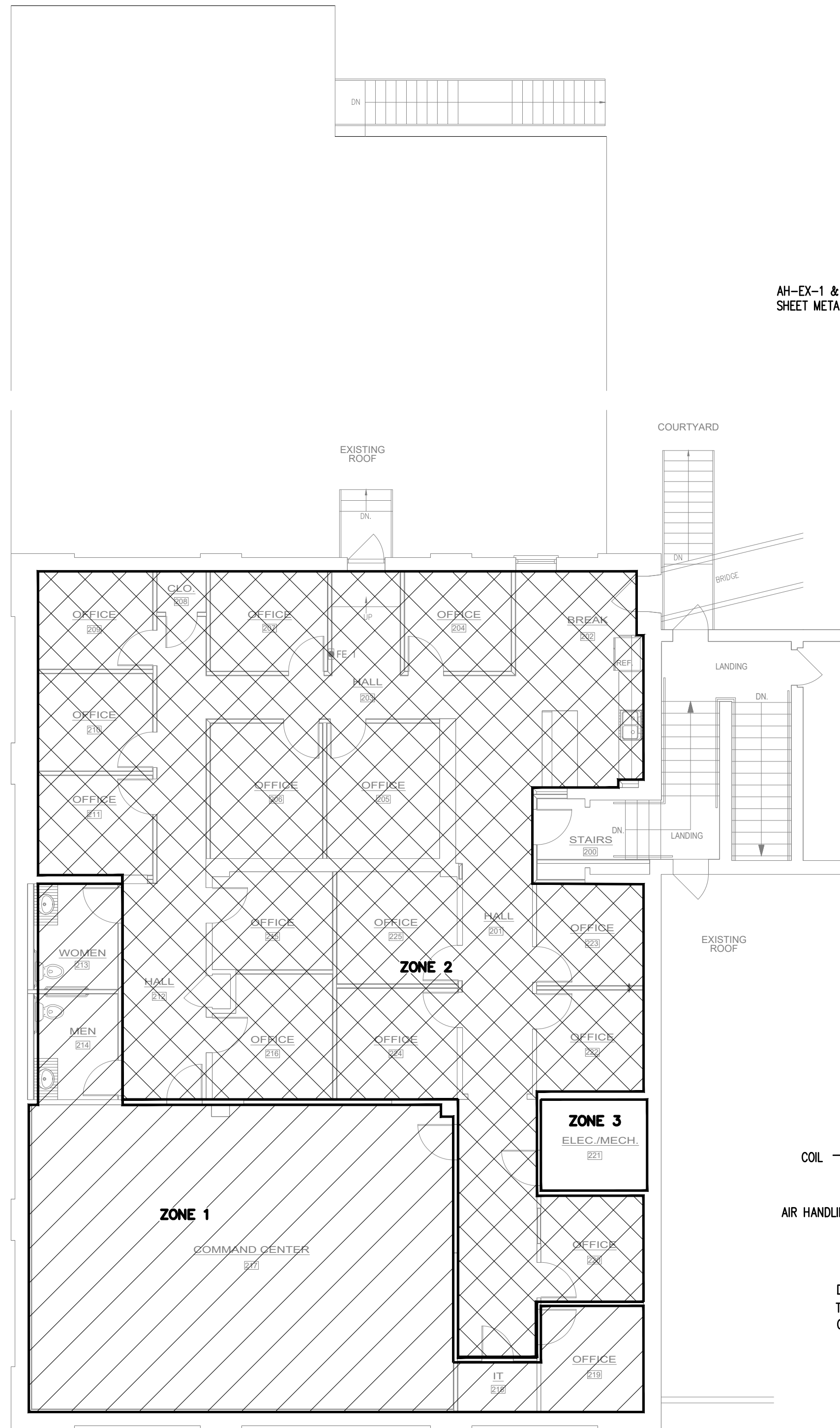
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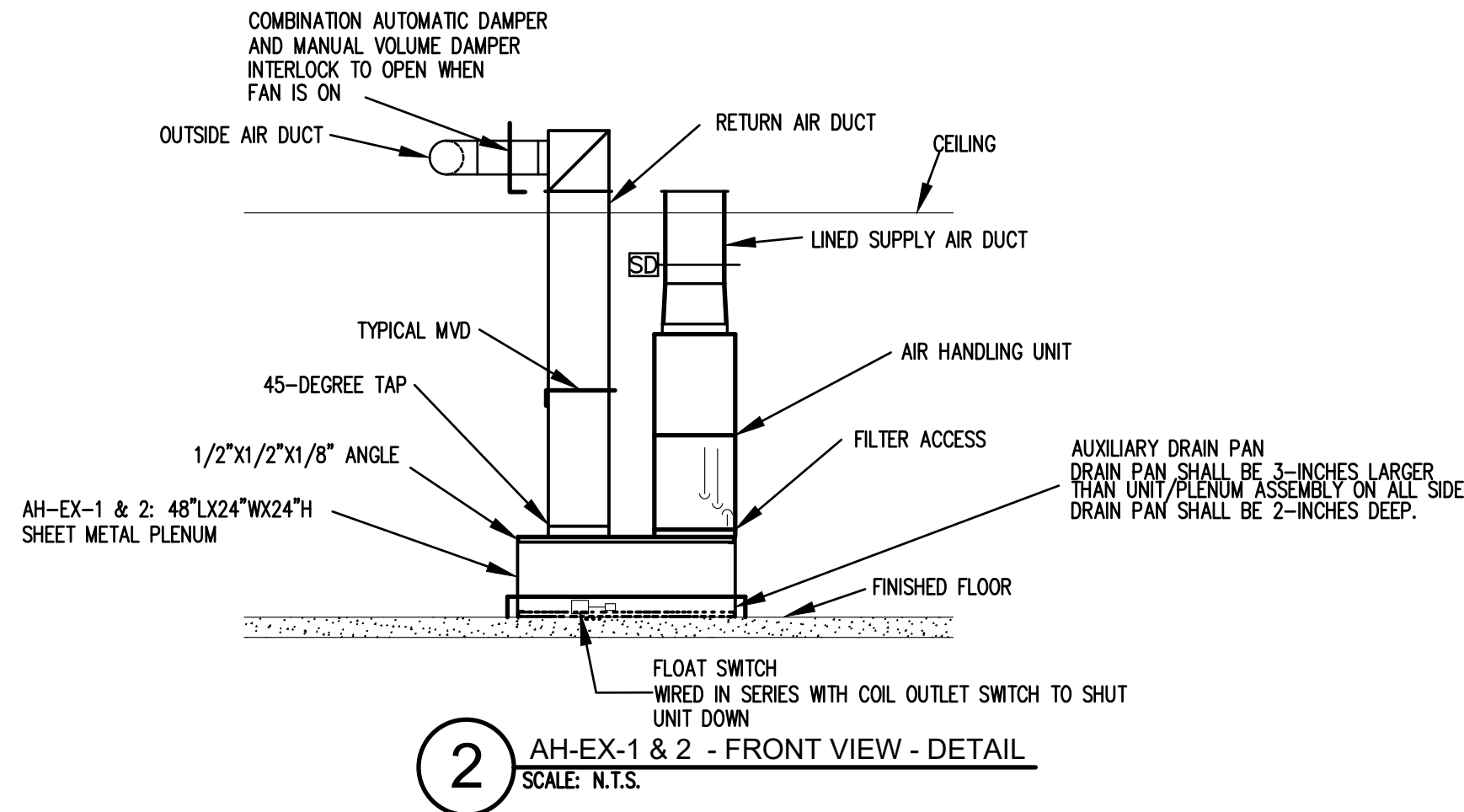


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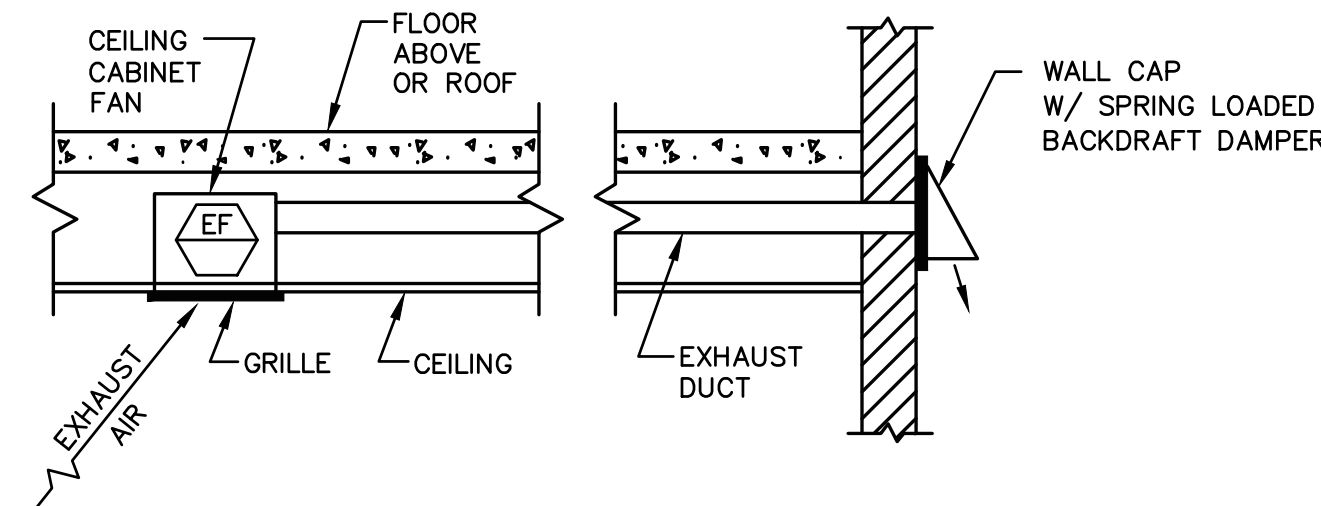
MECHANICAL
SCHEDULES
M0.2



1 MECHANICAL ZONING PLAN
SCALE: N.T.S.

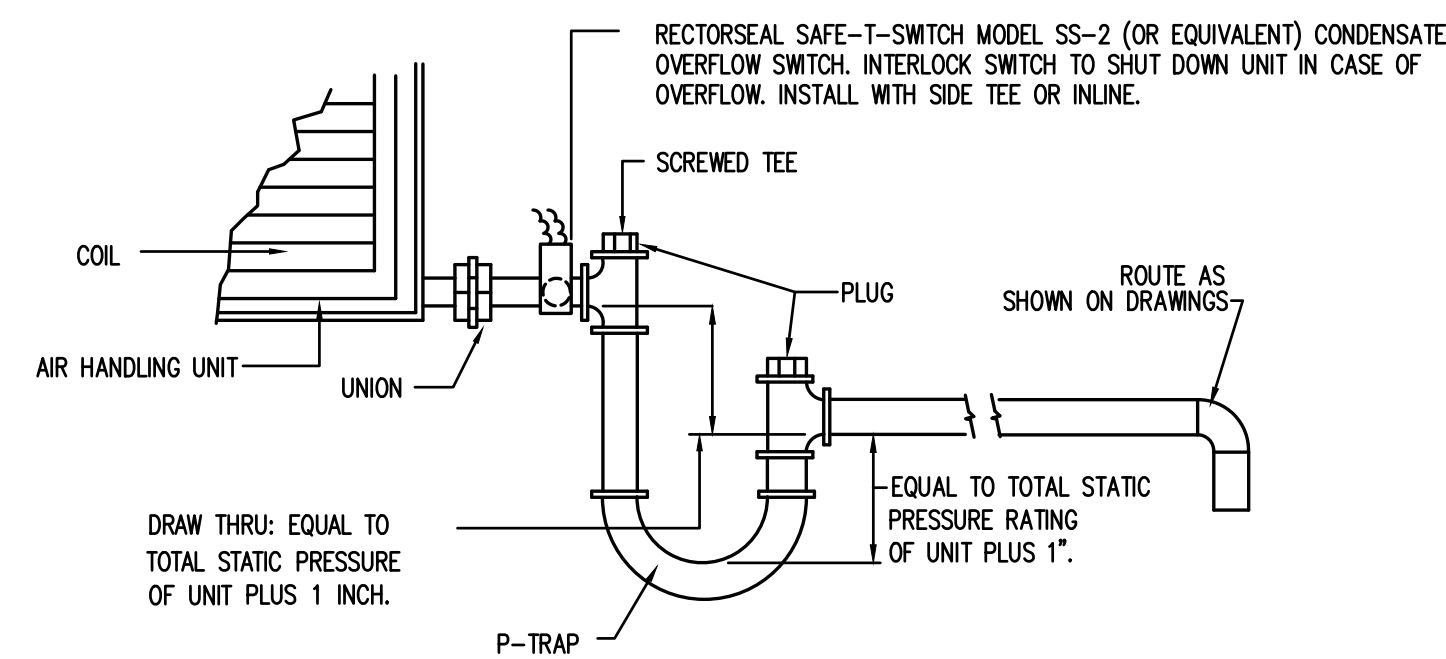


2 AH-EX-1 & 2 - FRONT VIEW - DETAIL
SCALE: N.T.S.

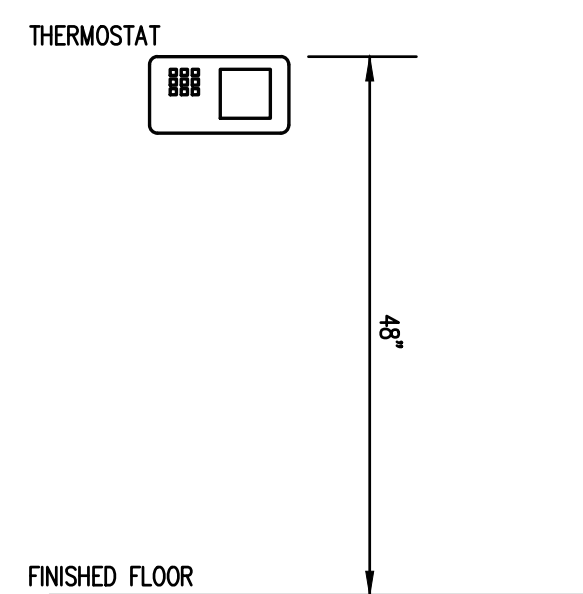


NOTE: 1) WALL CAP SHALL HAVE SPRING LOADED BACKDRAFT DAMPER WITH NEOPRENE SEAL AROUND IT.

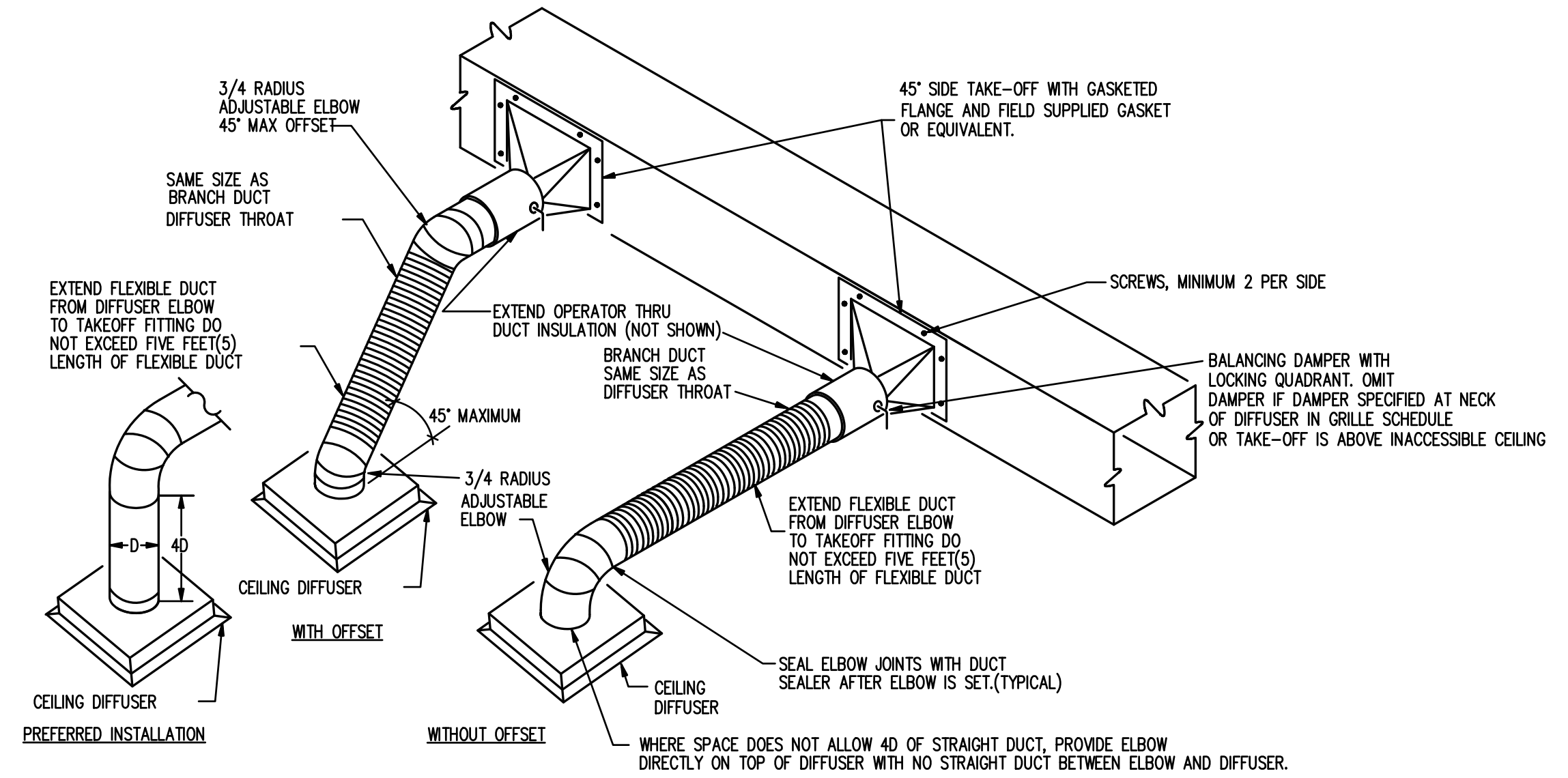
4 CEILING EXHAUST FAN W/SIDEWALL DISCHARGE-DETAIL
SCALE: N.T.S.



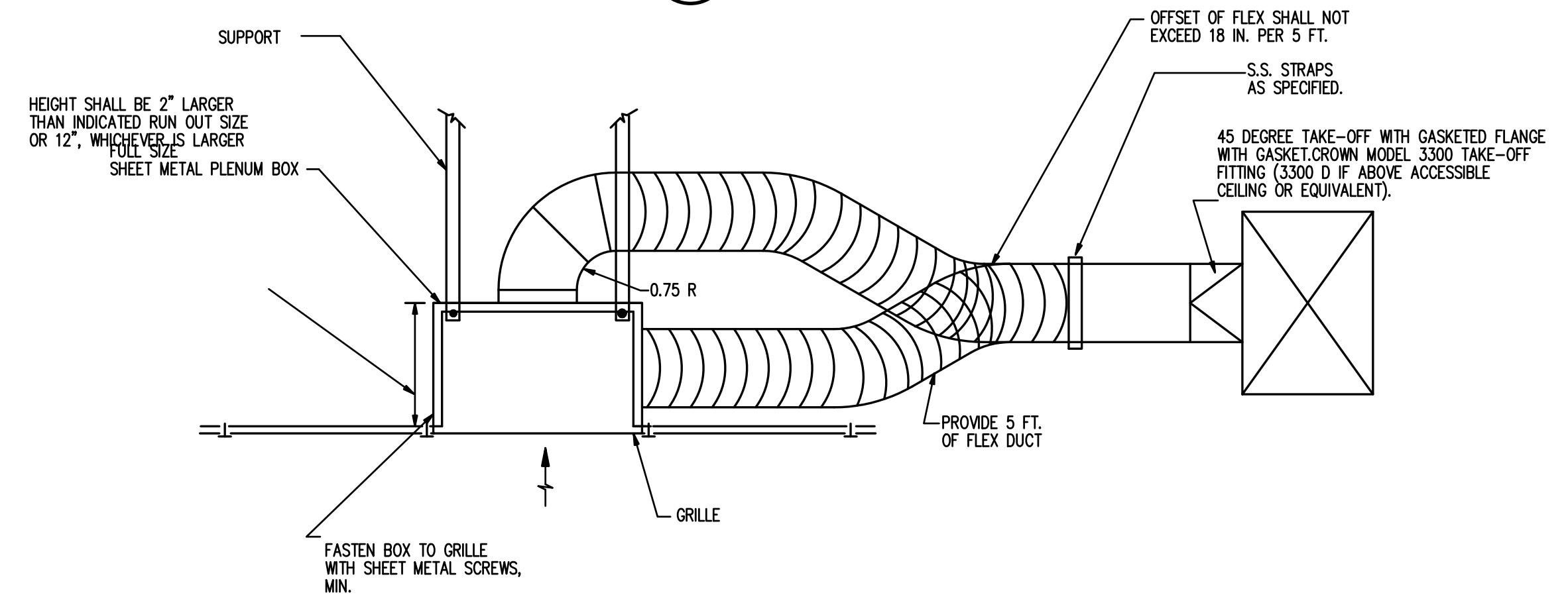
6 CONDENSATE DRAIN DETAIL
SCALE: N.T.S.



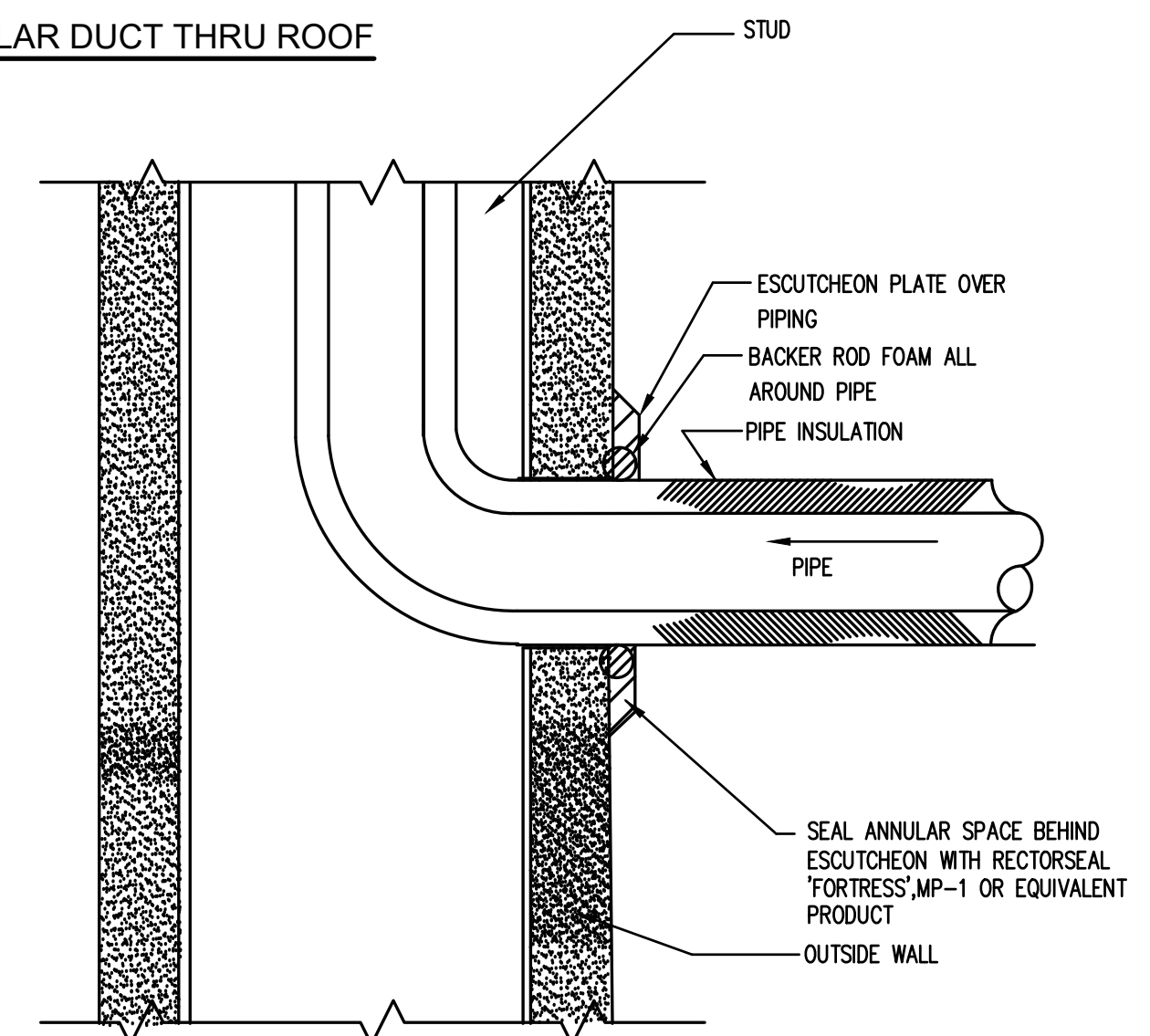
8 T-STAT DETAIL
SCALE: N.T.S.



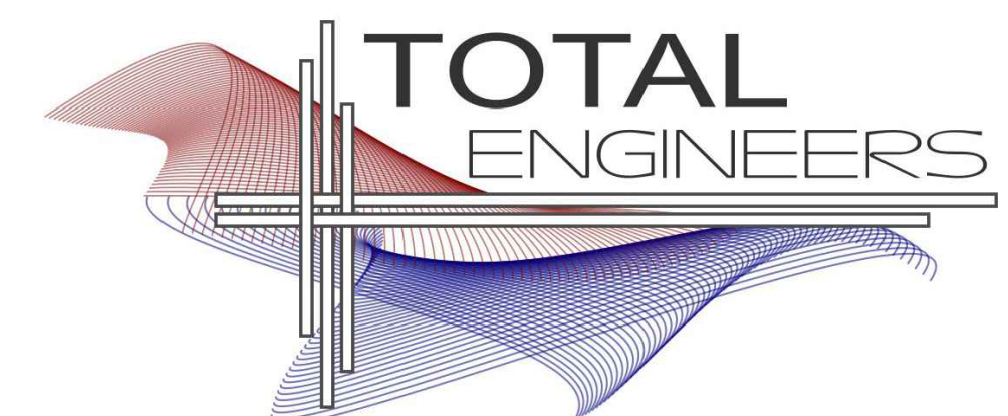
3 DIFFUSER RUN OUT DETAIL
SCALE: N.T.S.



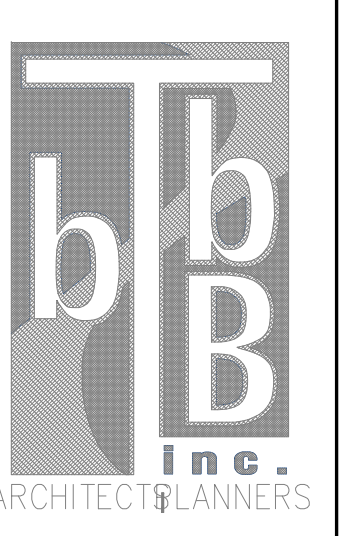
5 RECTANGULAR DUCT THRU ROOF
SCALE: N.T.S.



7 REFRIGERANT PIPE SLEEVE THROUGH WALL DETAIL
SCALE: N.T.S.



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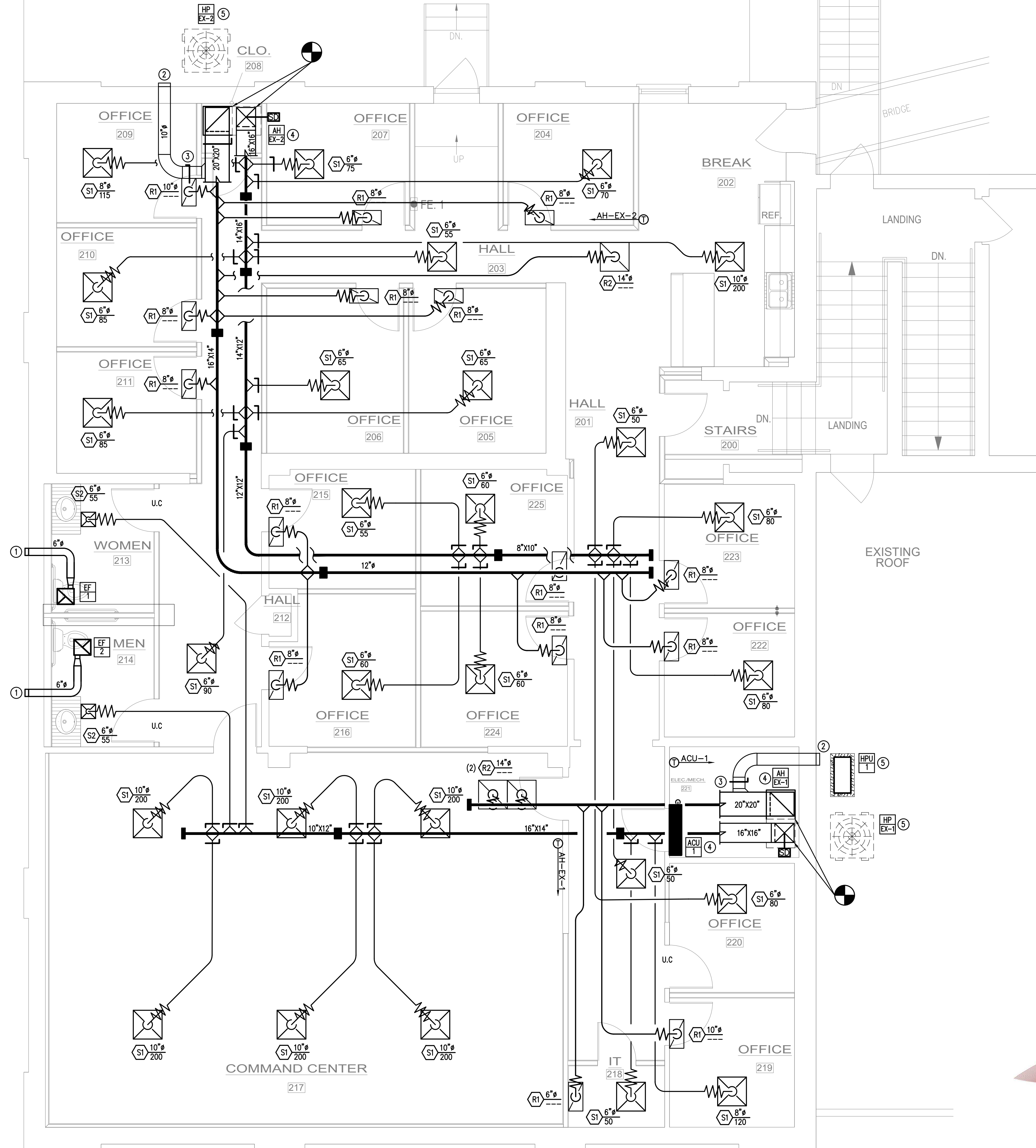
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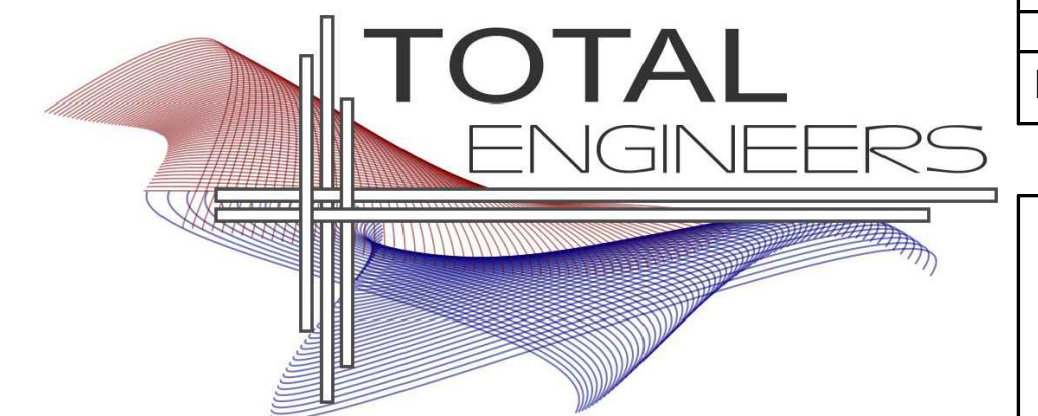
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MECHANICAL
DETAILS
M0.3

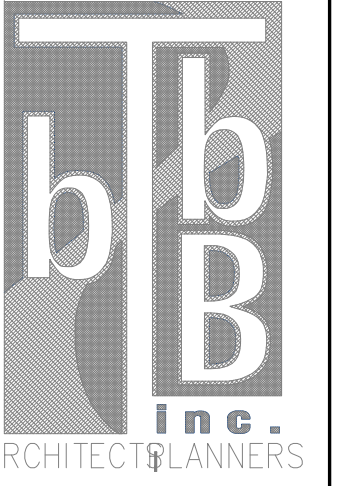
- KEY NOTES (THIS SHEET ONLY):
- 1 TYPICAL EXHAUST CAP.
 - 2 10"Ø OUTSIDE AIR CAP.
 - 3 TYPICAL MOTORIZED OUTSIDE AIR DAMPER INTERLOCKED TO OPEN WHEN EVAPORATOR FAN IS ON. BALANCE AT SCHEDULED OA CFM.
 - 4 ROUTE CONDENSATE TO OUTSIDE TO NEAREST ROOF DRAIN.
 - 5 ROUTE REFRIGERANT TO RESPECTIVE AIR-HANDLING UNIT LOCATED INSIDE. ROUTE AND SIZE PER MANUFACTURER'S INSTRUCTIONS.



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



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MECHANICAL
PLAN
M1.0



GENERAL DEMOLITION NOTES

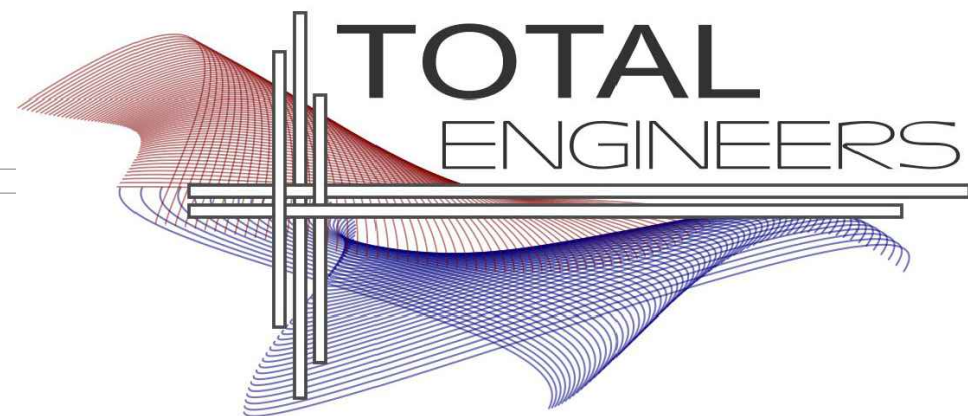
- A) DRAWINGS ARE DIAGRAMMATIC AND SHOW THE GENERAL PROXIMITY OF EQUIPMENT, PIPES, DUCTWORK ETC., ARE NOT TO BE SCALED. ALL DIMENSIONS SHALL BE VERIFIED BY THE CONTRACTOR AT BUILDING SITE.
- B) THE DEMOLITION PLANS HAVE BEEN PREPARED TO ASSIST THE CONTRACTOR IN DETERMINING THE SCOPE OF DEMOLITION WORK AND SHOULD NOT BE CONSTRUED TO BE ALL OF DEMOLITION REQUIRED. THE CONTRACTOR SHALL VISIT JOB SITE (AFTER CAREFULLY REVIEWING THE CONTRACT DOCUMENTS) AND DETERMINE EXACT AREAS AND QUANTITIES OF EXISTING MATERIALS TO BE REMOVED TO ACCOMPLISH NEW CONSTRUCTION.
- C) WHERE THE DOCUMENTS INDICATE EQUIPMENT TO BE REMOVED OR DEMOLISHED. CONTRACTOR SHALL REMOVE ALL ASSOCIATED MATERIALS INCLUDING SUPPORT, HANGERS, AND ASSOCIATED ACCESSORIES.
- D) CONTRACTOR SHALL DISPOSE OF ANY MATERIAL TO BE DISCARDED IN ACCORDANCE WITH ALL LAWS AND REGULATIONS.
- E) UNUSED SLEEVES LEFT OPEN BY REMOVAL OF PIPING SHALL BE CUT FLUSH WITH THE FINISHED SLAB OR WALL, FILLED WITH NON-SHRINKING GROUT AND/OR FIRE RATED FOAM FLUSH WITH BOTH SIDES OF SLAB OR WALL TO MAINTAIN SLAB OR WALL FIRE RATING.
- F) ALL EXISTING EQUIPMENT REMOVED OR DEMOLISHED SHALL BE A PROPERTY OF THE CONTRACTOR, UNLESS OTHERWISE NOTED AND SHALL BE REMOVED FROM THE FACILITY AS REQUIRED BY CODES AND REGULATIONS.

LINE LEGEND	
	DEMOLITION
	EXISTING TO REMAIN
	CONNECT TO EXISTING

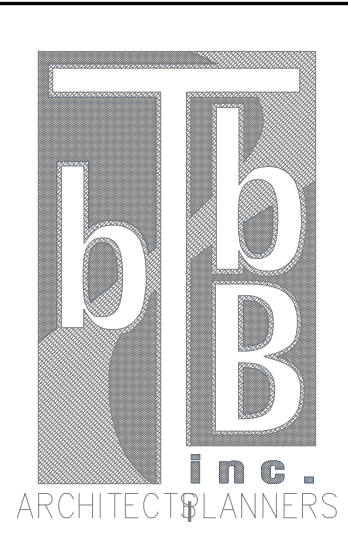
KEY NOTES (THIS SHEET ONLY):

- ◇ REMOVE EXISTING GRILL/DIFFUSER WITH ALL ITS ACCESSORIES. TYPICAL FOR ALL GRILLS AND DIFFUSERS.
- ◇ EXISTING DDC THERMOSTAT SHALL BE REUSE TO SERVE THE SAME UNIT. CONTRACTOR SHALL REMOVE IT AND STORE IT IN SAFE LOCATION FOR REUSE.
- ◇ EXISTING 4-TON FAN COIL UNIT ABOVE THE CEILING SHALL BE REUSED. REFER TO NEW WORK PLAN FOR NEW LOCATION OF FAN-COIL UNIT.
- ◇ EXISTING 4-TON FAN COIL UNIT SHALL BE REUSED WITH ADDED RETURN AIR DUCTWORK. REFER TO NEW WORK PLAN FOR ADDITIONAL INFORMATION.
- ◇ EXISTING DUCTWORK AND GRILL ASSOCIATED WITH FAN COIL UNIT SHALL BE REMOVED. NEW DUCTWORK AND GRILLS SHALL BE PROVIDED PER NEW WORK PLAN.
- ◇ EXISTING 4-TON CONDENSING UNIT SHALL REMAIN AS IS.

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



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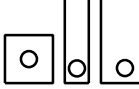
EXISTING
MECHANICAL
PLAN

M2.0

LIGHTING FIXTURE SCHEDULE

LIGHTING FIXTURE SCHEDULE

LIGHTING FIXTURE SCHEDULE		
TYPE	DESCRIPTION	MANUFACTURER
A	2 FT. X 4 FT. ECONOMY RECESSED LOW PROFILE ARCHITECTURAL TROFFER WITH ACRYLIC CENTER LENS AND MATTE WHITE POWDER PAINT REFLECTOR; STANDARD 0-10 DIMMING; FIELD SELECTABLE LUMEN AND COLOR TEMP. LAMPS: LED, 4000 LUMENS, 32 WATTS, 4000 DEGREE K DRIVER: UNV. VOLT	COLUMBIA "CLT" SER., LITHONIA "STAK" SER., METALUX "ACHIEVA" SER.
A2	2 FT. X 4 FT. ECONOMY RECESSED LOW PROFILE ARCHITECTURAL TROFFER WITH ACRYLIC CENTER LENS AND MATTE WHITE POWDER PAINT REFLECTOR; STANDARD 0-10 DIMMING; FIELD SELECTABLE LUMEN AND COLOR TEMP. LAMPS: LED, 5000 LUMENS, 40 WATTS, 4000 DEGREE K DRIVER: UNV. VOLT	COLUMBIA "CLT" SER., LITHONIA "STAK" SER., METALUX "ACHIEVA" SER.
A3	2 FT. X 4 FT. ECONOMY RECESSED LOW PROFILE ARCHITECTURAL TROFFER WITH ACRYLIC CENTER LENS AND MATTE WHITE POWDER PAINT REFLECTOR; STANDARD 0-10 DIMMING; FIELD SELECTABLE LUMEN AND COLOR TEMP. LAMPS: LED, 6000 LUMENS, 49 WATTS, 4000 DEGREE K DRIVER: UNV. VOLT	COLUMBIA "CLT" SER., LITHONIA "STAK" SER., METALUX "ACHIEVA" SER.
B	2 FT. X 2 FT. ECONOMY RECESSED LOW PROFILE ARCHITECTURAL TROFFER WITH ACRYLIC CENTER LENS AND MATTE WHITE POWDER PAINT REFLECTOR; STANDARD 0-10 DIMMING; FIELD SELECTABLE LUMEN AND COLOR TEMP. LAMPS: LED, 3000 LUMENS, 27 WATTS, 4000 DEGREE K DRIVER: UNV. VOLT	COLUMBIA "CLT" SER., LITHONIA "STAK" SER., METALUX "ACHIEVA" SER.
C	NOMINAL 4 FT. LONG CONTEMPORARY STYLED SURFACE MOUNT WRAP FIXTURE; LOW PROFILE DESIGN, WITH ROUNDED RIBBED ACRYLIC LENS; DAMP LOCATION LISTED, STANDARD 0-10 DIMMING. LAMPS: LED, 4000 LUMENS, 35 WATTS, 4000 DEGREE K DRIVER: UNV. VOLT	METALUX "NWS" SER., LITHONIA "CLX" SER., COLUMBIA "RLW" SER.
D	4 FT. LENSED LED STRIPLIGHT, WITH ROUND FROSTED DIFFUSE LENS, SURFACE MOUNTED, STANDARD 0-10 DIMMING. LAMPS: LED, 4000 LUMENS, 26 WATTS, 4000 DEGREE K DRIVER: UNV. VOLT	METALUX "SNX" SER., LITHONIA "BLP" SER., COLUMBIA "MPS" SER.
E	ROUND SURFACE MOUNTED PANEL; SLEEK ULTRA LOW PROFILE; DIFFUSING LENS PROVIDING LIGHT UNIFORMITY; WET LISTED COVERED CEILINGS. LAMPS: LED, 1900 LUMENS, 20 WATTS, 4000 DEGREE K DRIVER: UNV. VOLT	HALO "SMD14" SER., JUNO "J5F" SER., PRESCOLITE "LBSE" SER.
F	3 FT. LONG VANITY FIXTURE, MATTE WHITE DIFFUSER, BRUSHED ALUMINUM FINISH END CAPS, SOLID BACK PLATE MOUNTING; DAMP LOCATION RATED; 0-10 DIMMING STANDARD. MOUNT FIXTURE CENTER Laterally OVER MIRROR. COORDINATE FINISH WITH OWNER/ARCHITECT. COORDINATE MOUNTING HEIGHT WITH ARCHITECT. LAMPS: LED, 3500 LUMENS, 45 WATTS, 4000 DEGREE K DRIVER: UNV. VOLT	OCL LIGHTING "HILO" SER., SHAPER "GO5" SER., OR APPROVED EQUAL
	LED INTEGRATED THERMOPLASTIC COMBO EXIT/EMERGENCY, IMPACT RESISTANT HOUSING; TOP, END, OR BACK MOUNTING STANDARD. UNIVERSAL FIELD SELECTABLE SINGLE OR DOUBLE FACE, FIELD SELECTABLE RED OR GREEN ILLUMINATION. FIELD SELECTABLE CHEVRONS, WHITE / BLACK ENCLOSURE (PROVIDE 90 MIN. BACK-UP BATTERY). LAMPS: LED (2), 3 WATTS BALLAST: UNV. VOLT	SURE-LITES "LPX-C" SER., LITHONIA "ELMZ" SER., LITHONIA "LHQM" SER., COMPASS "CC" SER.
	LED 2 HEAD EMERGENCY UNIT, ROUND HEAD, LOW PROFILE CONTEMPORARY DESIGN WITH THERMOPLASTIC HOUSING, IMPACT RESISTANT, DAMP LOCATION LISTED. (PROVIDE 90 MIN. BACK-UP BATTERY). LAMPS: LED (2), 3 WATTS BALLAST: UNV. VOLT	COMPASS "CU2" SER., LITHONIA "ELMZ" SER., LIGHT ALARMS "LCA" SER., SURELITES "SEL1" SER., ENVILITE "TCL" SER.
	EXTERIOR ARCHITECTURAL STYLED LOW PROFILE LED EMERGENCY LIGHTING UNIT, SELF DIAGNOSTICS STANDARD, WET LOCATION WITH FULLY GASKETED HOUSING AND -20C TO 50C OPERATION, PRISMATIC POLYCARB REFRACTOR, BRONZE / BLACK SELECTED BY ARCHITECT. (PROVIDE 90 MIN. BACK-UP BATTERY). LAMPS: LED, 3 WATTS BALLAST: UNV. VOLT	LITHONIA "AFO" SER., MULE "MAKO" SER., SPRITZER "EWS" SER., COMPASS "CUW" SER., ISOLITE "LED" SER.

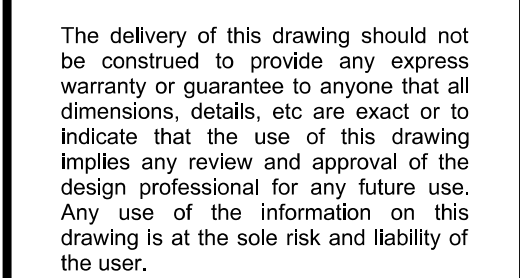
ELECTRICAL LEGEND	
LIGHTING AND POWER	
	CONDUIT RUN CONCEALED ABOVE CEILING OR IN WALL. HASH MARKS INDICATE NUMBER OF CONDUCTORS. (3 WIRE UNLESS SHOWN)
	CONDUIT RUN CONCEALED BELOW FLOOR SLAB, OR UNDERGROUND.
 A-2,4	HOMERUN TO PANELBOARD, LETTER OR LETTERS INDICATE PANELBOARD. NUMBERS INDICATES CIRCUIT NUMBERS.
	LIGHT FIXTURE, SEE SCHEDULE FOR MOUNTING AND TYPE.
	DUPLEX CONVENIENCE OUTLET, 18 IN. ABOVE FLOOR UNLESS OTHERWISE NOTED.
	DUPLEX CONVENIENCE OUTLET, 8 IN. ABOVE COUNTER TOP OR 42 IN. MOUNTING HEIGHT.
	QUADRUPLUX CONVENIENCE OUTLET, 18 IN. ABOVE FLOOR UNLESS OTHERWISE NOTED.
WP 	DUPLEX CONVENIENCE OUTLET, GF1 TYPE, 18 IN. MOUNTING HEIGHT. *WP* WHERE SHOWN INDICATES WEATHERPROOF. PROVIDE METAL IN-USE WEATHERPROOF COVERPLATE.
	DUPLEX CONVENIENCE OUTLET, GF1 TYPE, MOUNTED 8 INCHES ABOVE COUNTER OR AT 42 IN. ABOVE FLOOR.
	JUNCTION BOX, FLUSH WALL MOUNTED AT 18 IN. TO CENTERLINE UNLESS OTHERWISE NOTED.
	JUNCTION BOX LOCATED ABOVE CEILING.
	SINGLE POLE TOGGLE SWITCH, 42 IN. ABOVE FLOOR.
	THREE OR FOUR WAY SWITCH AS INDICATED, 42 IN. MOUNTING HEIGHT.
	0-10 VOLT SLIDE TYPE DIMMER, 42 IN. ABOVE FLOOR. (MANUAL ON TO 50%, DIM 1 - 100%, AUTO OFF PER IECC 2015. MUST BE COMPATIBLE WITH VAC SENSOR AND POWER PACK.)
	THREE WAY, 0-10 VOLT SLIDE TYPE DIMMER, 42 IN. ABOVE FLOOR. (MANUAL ON TO 50%, DIM 1 - 100%, AUTO OFF PER IECC 2015. MUST BE COMPATIBLE WITH VAC SENSOR AND POWER PACK.)
	PANELBOARD, SEE SCHEDULE.
	DISCONNECT SWITCH.
	MOTOR.
	TIME DELAY RELAY.
TELEPHONE/DATA SYSTEMS (RACEWAY, BOXES, AND PULL STRING ONLY)	
	COMBINATION COMPUTER AND TELEPHONE OUTLET, 18 IN. TO CENTER LINE OF OUTLET UNLESS NOTED OTHERWISE.
	COMPUTER OUTLET, FLUSH WALL MOUNTED AT 18 IN. TO CENTER LINE OF OUTLET.
	WIRELESS ACCESS POINT.
TB 	PLYWOOD BACKBOARD, *TB* INDICATES TELEPHONE BOARD.
LIGHTING CONTROL SYSTEMS	
	COMBINATION 360 DEGREE ULTRASONIC AND PASSIVE INFRARED SENSOR (WATT STOPPER "DT-300", GREENGATE, NOVITAS, HUBBELL, LEVITON, SENSOR SWITCH. *V* INDICATES VACANCY SENSOR. UNIT MUST COMPLY WITH IECC 2015 REQUIREMENTS AND BE COMPATIBLE WITH DIMMER).
	WALL MOUNTED SENSOR SWITCH, 42 IN. MOUNTING HEIGHT (WATTSTOPPER DSW-301, GREENGATE, NOVITAS, HUBBELL, LEVITON, SENSOR SWITCH).
	ULTRASONIC OCCUPANCY SENSOR (WATT STOPPER "WT-2250", GREENGATE, NOVITAS, HUBBELL, LEVITON, SENSOR SWITCH).
FIRE ALARM SYSTEM (EXPANSION OF EXISTING SYSTEM)	
FACP 	FIRE ALARM CONTROL PANEL, SURFACE MOUNTED.
	HORN 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.
	FIRE ALARM PULL STATION, WALL MOUNTED 42 IN. ABOVE FLOOR.
	FIRE ALARM DUCT SMOKE DETECTOR LOCATED IN HVAC DUCT. PROVIDE IN UNITS 2000 CFM AND GREATER, DETECTOR SHALL SHUT DOWN UNIT UPON ACTIVATION.
	SMOKE DETECTOR, PHOTOELECTRIC TYPE.
SECURITY SYSTEM (RACEWAY, BOXES, AND PULL STRING ONLY)	
	ACCESS CONTROL PROXIMITY READER, PROVIDE JUNCTION BOX AND 3/4 IN. C. WITH PULL STRING TO SECURITY EQUIPMENT LOCATION. COORDINATE WITH SECURITY CONTRACTOR PRIOR TO ROUGH-IN. COORDINATE MOUNTING HEIGHT WITH OWNER PRIOR TO ROUGH-IN.
	DOOR CONTACT POSITION SENSOR LOCATION, PROVIDE SINGLE GANG BOX AT DOOR FRAME ON SECURE SIDE OF DOOR. COORDINATE EXACT LOCATION WITH SECURITY CONTRACTOR PRIOR TO ROUGH-IN. 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").
- E. PROVIDE BLANK COVER PLATES ON ALL BOXES WHERE NO DEVICE IS PRESENT, INCLUDING EMPTY BOXES AND/OR BOXES THAT MIGHT HAVE CABLES THAT ARE NOT TERMINATED.

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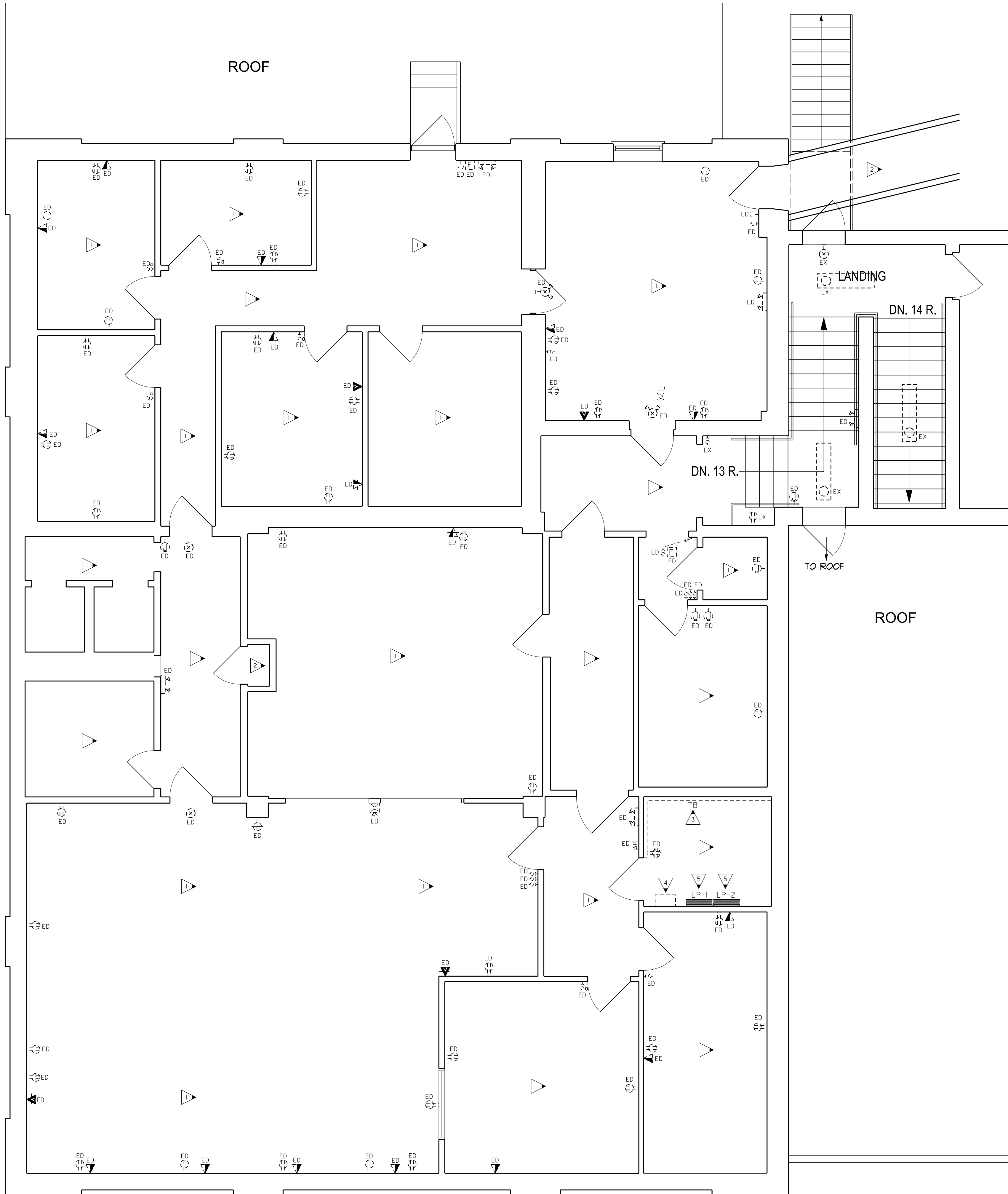
**RENOVATIONS FOR
MBC CODE ENFORCEMENT OFFICES
2ND FLOOR / CITY HALL**

CORNER FIRST & POPLAR ST. MACON, GA

Drawing Issue Schedule	
2/14/2025	Permit Set
Project No: 2024-34	

Electrical Legend, Specifications, & Schedules

E0.1



PARTIAL SECOND FLOOR PLAN - ELECTRICAL DEMOLITION
SCALE: 1/4" = 1'-0"

KEYED NOTES: (THIS SHEET ONLY)

1. LIGHT FIXTURES, LIGHTING CONTROLS, RECEPTACLES, TELE/DATA, LOW VOLTAGE SYSTEMS, ELECTRICAL EQUIPMENT, ETC., IN AREA ARE TO BE DEMOLISHED UNLESS OTHERWISE NOTED. EXISTING CONDUIT AND BOXES MAY BE REUSED WHERE POSSIBLE.
2. NO NEW WORK IN EXISTING AREA UNLESS OTHERWISE NOTED.
3. EXISTING TELEPHONE EQUIPMENT TO BE REMOVED AND TURNED OVER TO THE OWNER. EXISTING PLYWOOD BACKBOARD TO BE DEMOLISHED.
4. EXISTING DATA RACK TO BE REMOVED AND TURNED OVER TO THE OWNER. PROTECT EQUIPMENT DURING REMOVAL AND STORAGE. COORDINATE EQUIPMENT TRANSFER WITH OWNER PRIOR TO TURN OVER.
5. EXISTING ELECTRICAL PANELS TO BE REPLACED. SEE EXISTING POWER RISER DIAGRAM, I/ES, 1. PROTECT EQUIPMENT DURING REMOVAL AND STORAGE. COORDINATE EQUIPMENT TRANSFER WITH OWNER PRIOR TO TURN OVER.

GENERAL DEMOLITION NOTES: (SHEETS EL1 & EL2)

- 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, FIRE ALARM, 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:

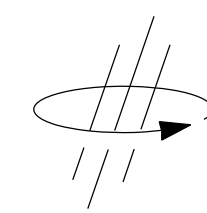
CONTRACTOR SHALL CAREFULLY REVIEW HVAC AND ELECTRICAL DRAWINGS PRIOR TO BID. ALL HVAC EQUIPMENT TO REMAIN, EQUIPMENT BEING REPLACED, AND NEW EQUIPMENT SHALL BE PROVIDED POWER. ELECTRICAL DRAWINGS SHOW THE MEANS OF PROVIDING POWER. HOWEVER, ALL EQUIPMENT MUST BE POWERED WHETHER SHOWN OR NOT.

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)

DEMOLITION LEGEND

ED	EXISTING DEVICE TO BE DEMOLISHED. SEE DEMOLITION NOTES.
ER	EXISTING DEVICE TO BE RELOCATED, PROVIDE NEW DEVICE AND FACEPLATE. PROVIDE NEW BRANCH CIRCUIT BACK TO SERVING PANEL, BACKBOARD OR CABINET.
EX	EXISTING DEVICE TO REMAIN, PROVIDE NEW DEVICE AND FACEPLATE. PROVIDE NEW CABLING BACK TO SERVING CABINET ON LOW VOLTAGE DEVICES.



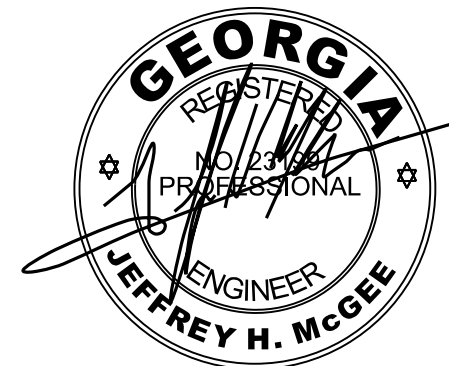
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ELECTRICAL DESIGN
CONSULTANTS

ELECTRICAL ENGINEERS
MACON OFFICE - PROJECT #: M25018
edc1973.com



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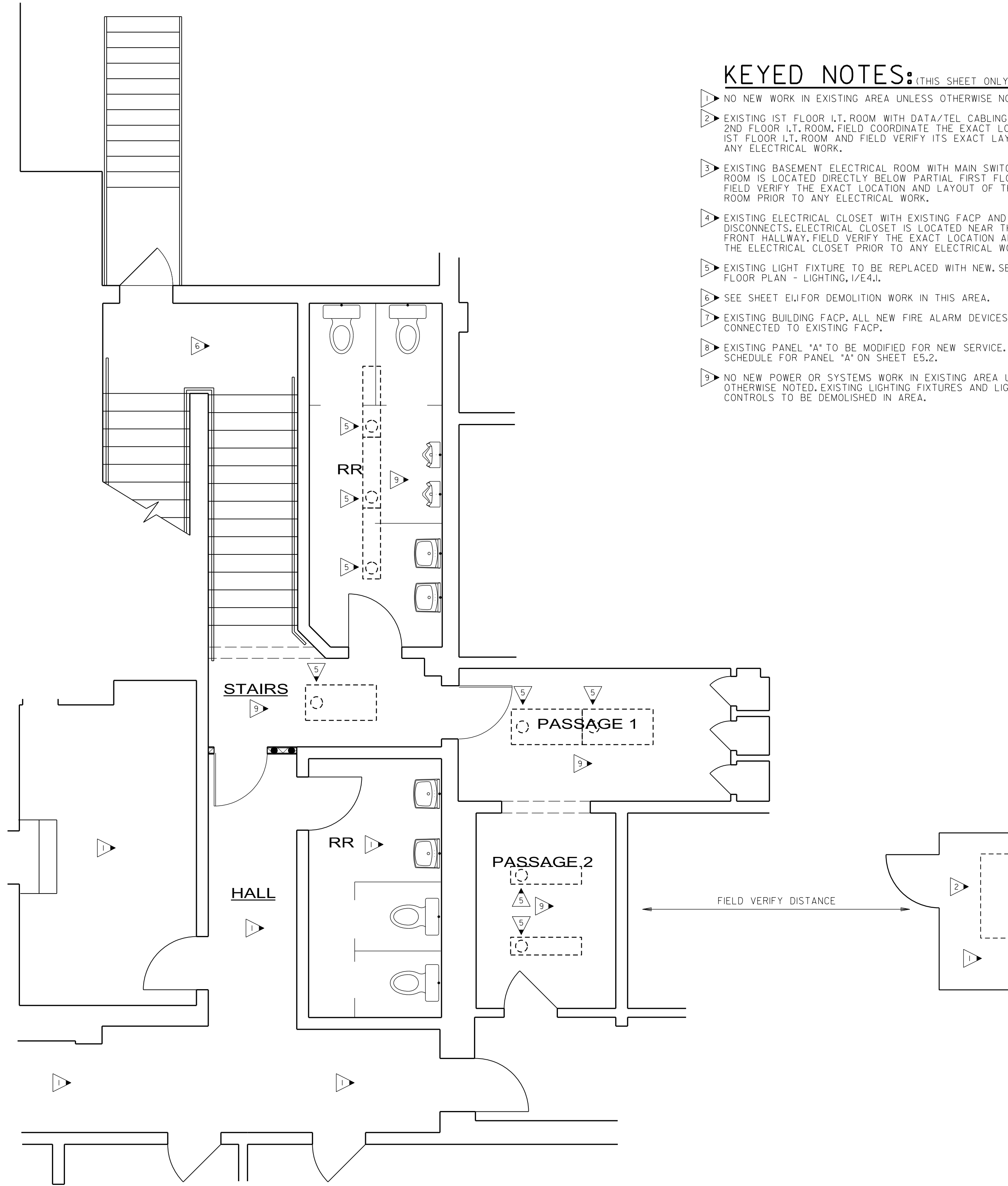


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RENOVATIONS FOR MBC CODE ENFORCEMENT OFFICES 2ND FLOOR / CITY HALL CORNER FIRST & POPLAR ST. MACON, GA

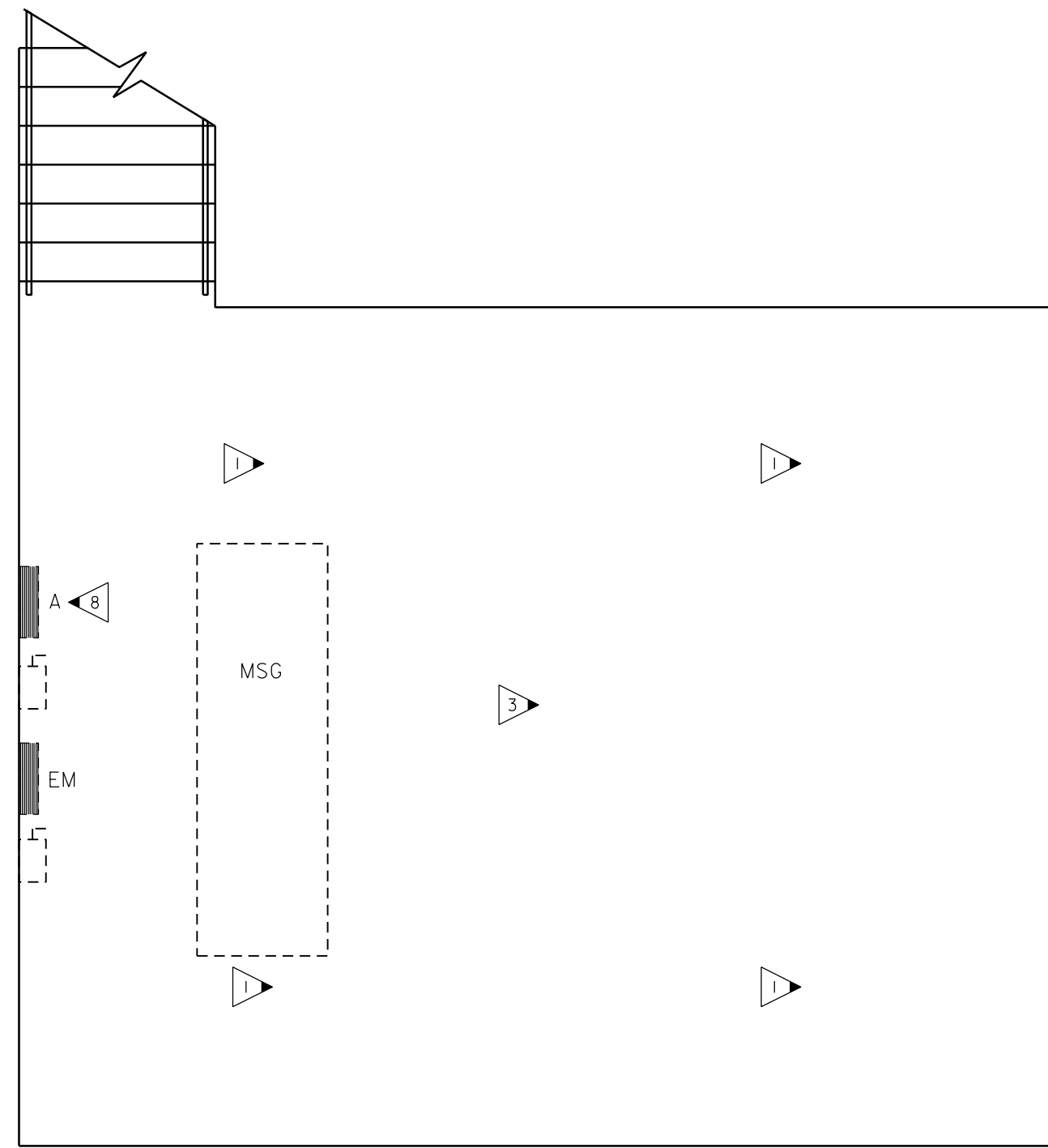
Drawing Issue Schedule	
2/14/2025	Permit Set
Project No:	2024-34

Partial Second
Floor Plan -
Electrical
Demolition
E1.1

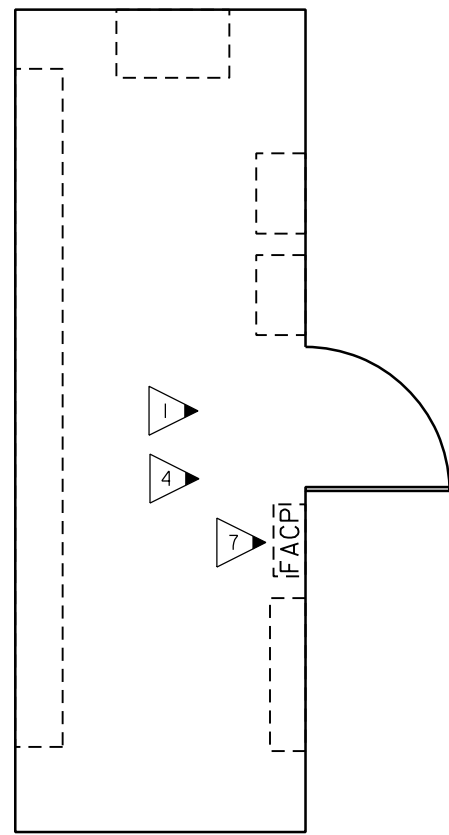


1 PARTIAL FIRST FLOOR PLAN - ELECTRICAL DEMOLITION
El.2 SCALE: 1/4" = 1'-0"

- KEYED NOTES:** (THIS SHEET ONLY)
- NO NEW WORK IN EXISTING AREA UNLESS OTHERWISE NOTED.
 - EXISTING 1ST FLOOR I.T. ROOM WITH DATA/TEL CABLING UP TO EXISTING 2ND FLOOR I.T. ROOM. FIELD COORDINATE THE EXACT LOCATION OF THE 1ST FLOOR I.T. ROOM AND FIELD VERIFY ITS EXACT LAYOUT PRIOR TO ANY ELECTRICAL WORK.
 - EXISTING BASEMENT ELECTRICAL ROOM WITH MAIN SWITCHBOARD. BASEMENT ROOM IS LOCATED DIRECTLY BELOW PARTIAL FIRST FLOOR PLAN, I/EL.2. FIELD VERIFY THE EXACT LOCATION AND LAYOUT OF THE BASEMENT ROOM PRIOR TO ANY ELECTRICAL WORK.
 - EXISTING ELECTRICAL CLOSET WITH EXISTING FACP AND CITY HALL DISCONNECTS. ELECTRICAL CLOSET IS LOCATED NEAR THE CITY HALL FRONT HALLWAY. FIELD VERIFY THE EXACT LOCATION AND LAYOUT OF THE ELECTRICAL CLOSET PRIOR TO ANY ELECTRICAL WORK.
 - EXISTING LIGHT FIXTURE TO BE REPLACED WITH NEW. SEE PARTIAL FIRST FLOOR PLAN - LIGHTING, I/E4.J.
 - SEE SHEET ELJ FOR DEMOLITION WORK IN THIS AREA.
 - EXISTING BUILDING FACP. ALL NEW FIRE ALARM DEVICES MUST BE CONNECTED TO EXISTING FACP.
 - EXISTING PANEL "A" TO BE MODIFIED FOR NEW SERVICE. SEE PANEL SCHEDULE FOR PANEL "A" ON SHEET E5.2.
 - NO NEW POWER OR SYSTEMS WORK IN EXISTING AREA UNLESS OTHERWISE NOTED. EXISTING LIGHTING FIXTURES AND LIGHTING CONTROLS TO BE DEMOLISHED IN AREA.



2 PARTIAL BASEMENT PLAN - ELECTRICAL DEMOLITION
El.2 NOT TO SCALE



3 FIRST FLOOR ELECTRICAL CLOSET - ELECTRICAL DEMOLITION
El.2 NOT TO SCALE

GENERAL DEMOLITION NOTES: (THIS SHEET ONLY)

A. SEE GENERAL DEMOLITION NOTES ON SHEET ELJ.

COORDINATION NOTE:

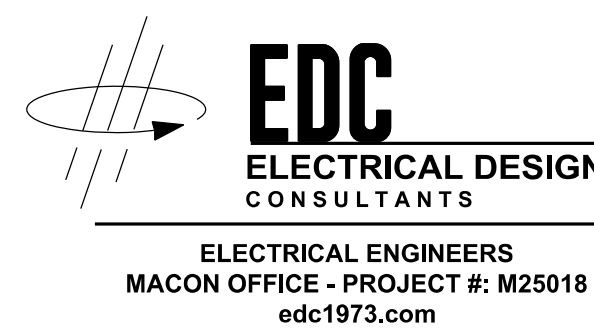
CONTRACTOR SHALL CAREFULLY REVIEW HVAC AND ELECTRICAL DRAWINGS PRIOR TO BID. ALL HVAC EQUIPMENT TO REMAIN. EQUIPMENT BEING REPLACED, AND NEW EQUIPMENT SHALL BE PROVIDED POWER. ELECTRICAL DRAWINGS SHOW THE MEANS OF PROVIDING POWER. HOWEVER, ALL EQUIPMENT MUST BE POWERED WHETHER SHOWN OR NOT.

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)

DEMOLITION LEGEND

ED	EXISTING DEVICE TO BE DEMOLISHED. SEE DEMOLITION NOTES.
ER	EXISTING DEVICE TO BE RELOCATED, PROVIDE NEW DEVICE AND FACEPLATE. PROVIDE NEW BRANCH CIRCUIT BACK TO SERVING PANEL, BACKBOARD OR CABINET.
EX	EXISTING DEVICE TO REMAIN, PROVIDE NEW DEVICE AND FACEPLATE. PROVIDE NEW CABLING BACK TO SERVING CABINET ON LOW VOLTAGE DEVICES.



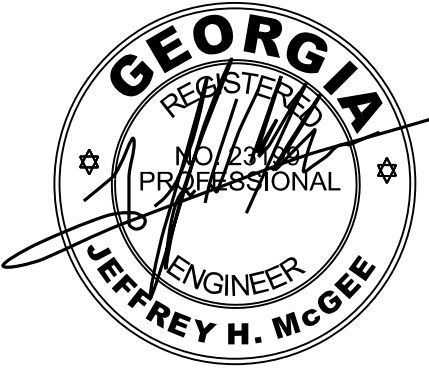
RENOVATIONS FOR
MBC CODE ENFORCEMENT OFFICES
2ND FLOOR / CITY HALL
CORNER FIRST & POPLAR ST. MACON, GA

Drawing Issue Schedule	
2/14/2025	Permit Set
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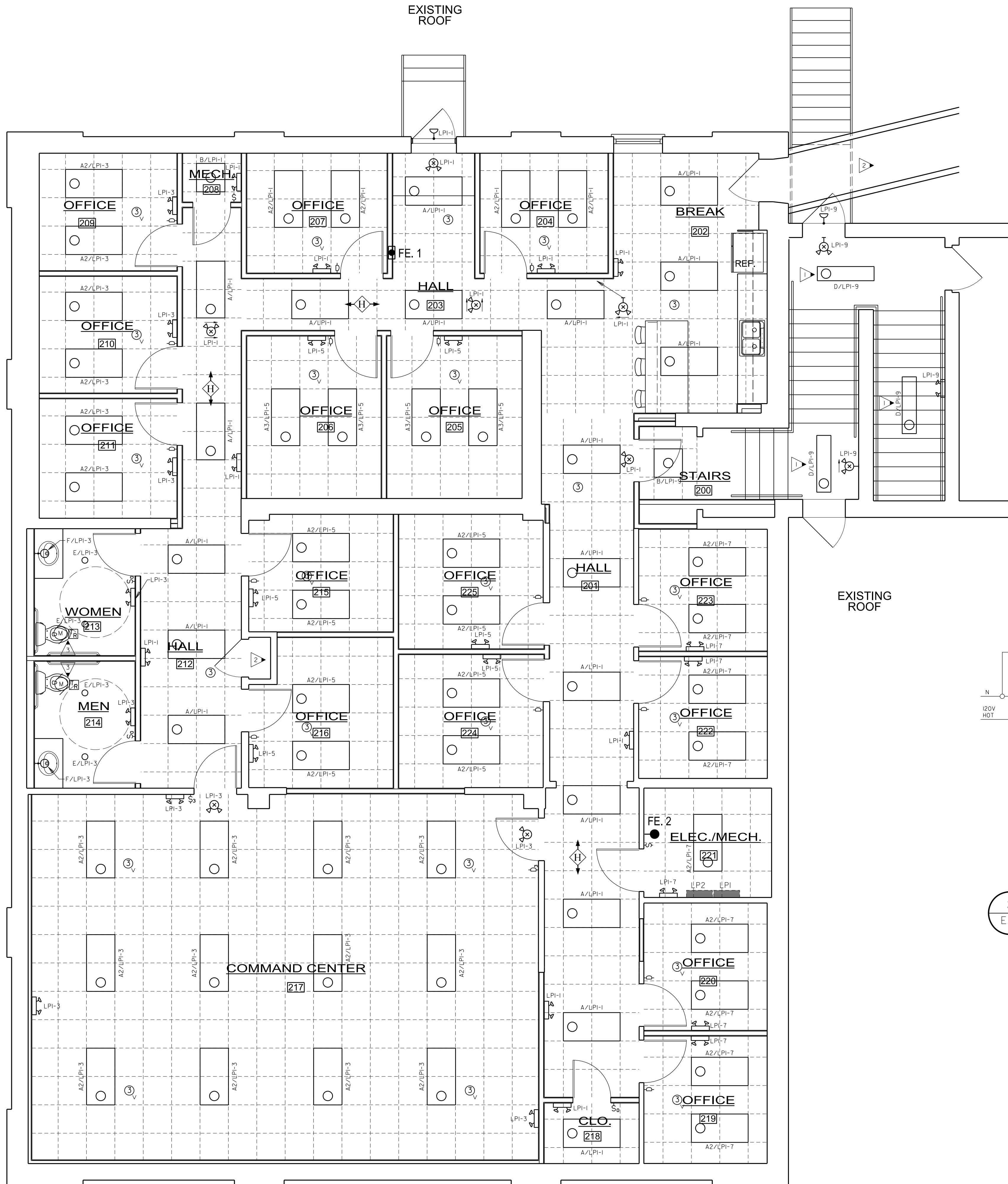
Partial First
Floor Plan -
Electrical
Demolition
E1.2



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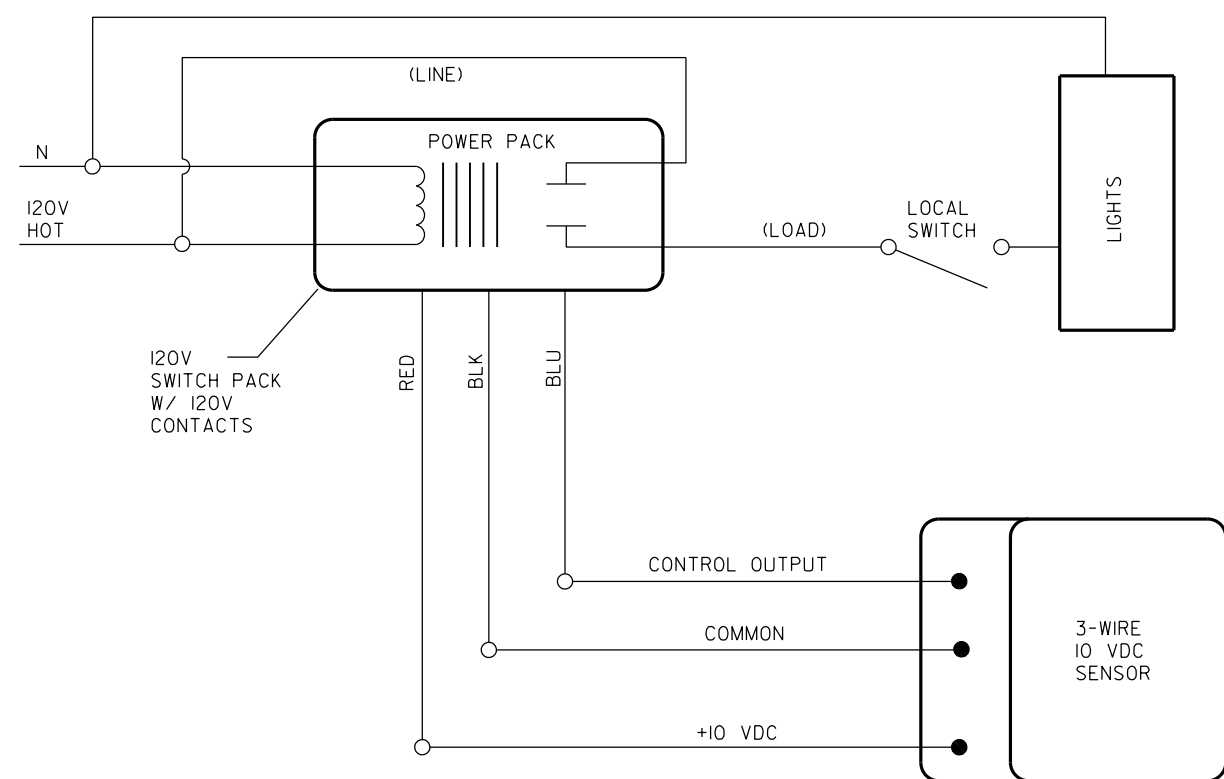
1 PARTIAL SECOND FLOOR PLAN - LIGHTING
E2.1 SCALE: 1/4"=1'-0"

KEYED NOTES: (THIS SHEET ONLY)

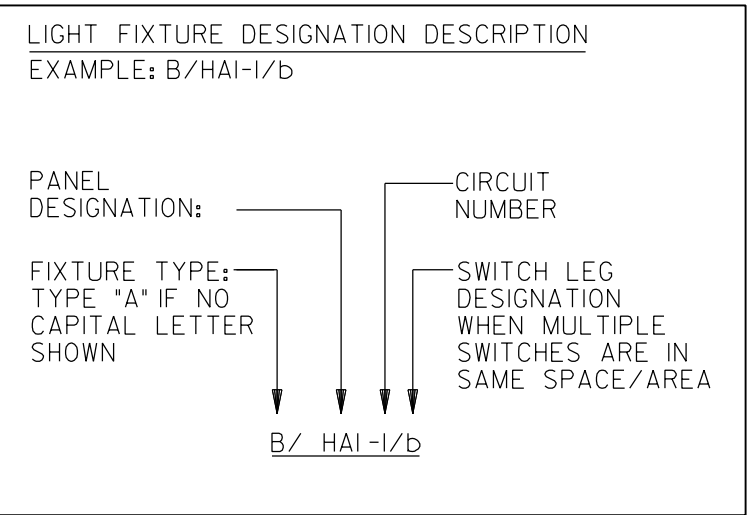
- 1 NEW LIGHT FIXTURE TO REPLACE EXISTING FIXTURE. I-FOR-I FIXTURE SURFACE MOUNTED ON EXISTING STRUCTURE. CIRCUIT FIXTURE TO NEW LIGHTING CIRCUIT INDICATED.
- 2 NO NEW WORK IN EXISTING AREA UNLESS OTHERWISE NOTED. LOCATE, PROTECT, AND MAINTAIN ELECTRICAL CIRCUITS SERVING THE EXISTING TO REMAIN.
- 3 EXHAUST FAN CIRCUITED WITH AND POWERED FROM LIGHTING CIRCUIT. PROVIDE TIME DELAY RELAY AND INTERCONNECT PER MECH REQUIREMENTS. EXTEND #12 CONDUCTORS AND 1/2 IN. C. AS REQUIRED FOR FAN AND TIME DELAY RELAY.

GENERAL LIGHTING NOTES: (DETAILS 1/E2.1 & 1/E4.1)

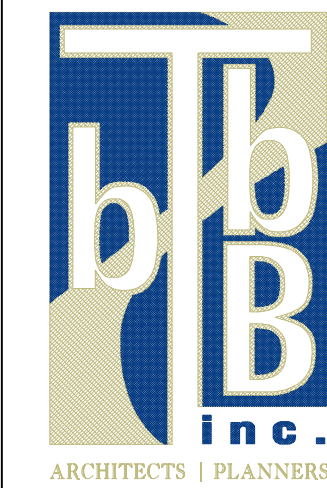
- A. THIS PLAN INDICATES AREAS TO BE CONTROLLED BY MOTION SENSORS. SINCE COVERAGES AND DEVICES VARY BETWEEN MANUFACTURERS IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO COORDINATE PROPER DEVICE LOCATION, ORIENTATION AND QUANTITIES WITH THE MANUFACTURER OF THE SYSTEM BEING INSTALLED TO MEET THE SPECIFIED CRITERIA.
- B. ALL AREA'S OF THIS PLAN REQUIRE OCCUPANCY SENSOR COVERAGE (EXCEPT FOR MECHANICAL AND ELECTRICAL ROOMS). SEE LIGHTING SENSOR LEGEND E01 (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 3/8 IN. 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.



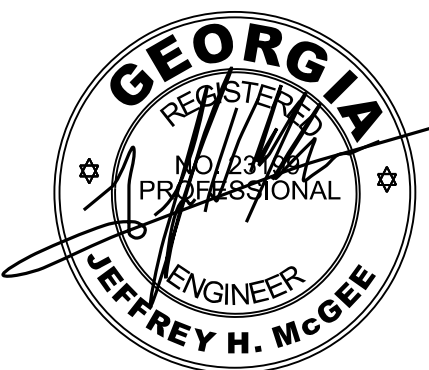
2 SCHEMATIC WIRING DIAGRAM -
E2.1 SENSOR CONTROL - LIGHTING
NOT TO SCALE (SEE MANUFACTURERS RECOMMENDATION FOR SCHEMATIC WHERE MULTIPLE SENSORS OCCUR IN SAME SPACE.)



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)



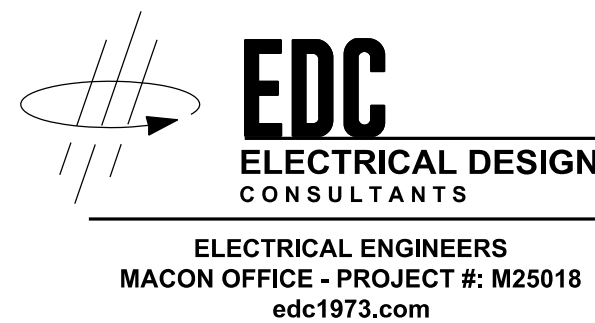
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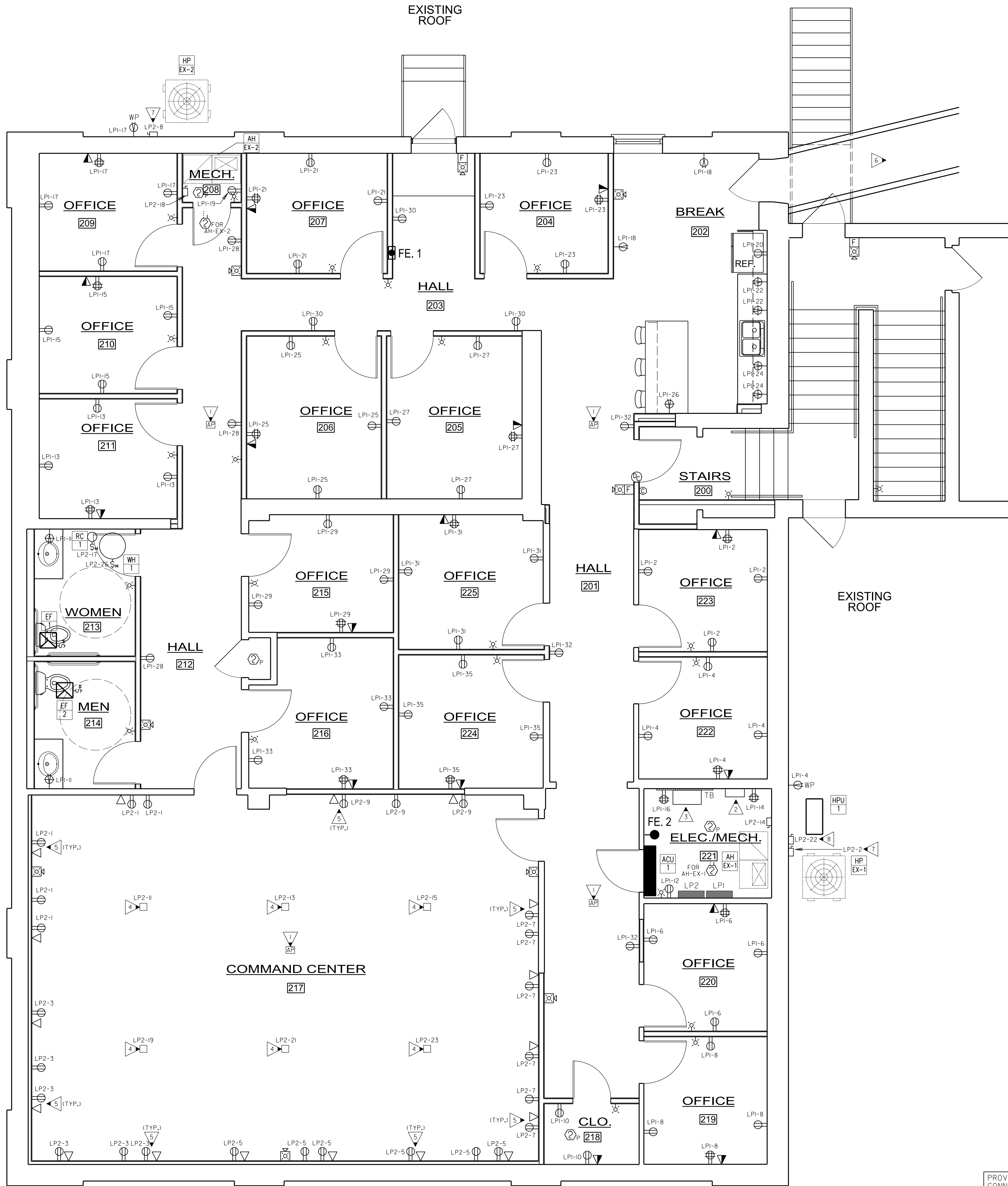
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RENOVATIONS FOR
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2ND FLOOR / CITY HALL
CORNER FIRST & POPLAR ST. MACON, GA

Drawing Issue Schedule	
2/14/2025	Permit Set
Project No:	2024-34



Partial Second
Floor Plan -
Lighting
E2.1



I PARTIAL SECOND FLOOR PLAN - POWER & SYSTEMS
E3.1 SCALE: 1/4"=1'-0"

KEYED NOTES: (THIS SHEET ONLY)

1. BISCUIT STYLE DATA OUTLET MOUNTED IN CEILING FOR WIRELESS ACCESS POINT BY OTHERS. COORDINATE EXACT LOCATION WITH OWNER/ARCHITECT/EQUIPMENT PROVIDER PRIOR TO ROUGH-IN.
2. ACCESS CONTROL EQUIPMENT PROVIDED BY OTHERS. COORDINATE EXACT LOCATION WITH OWNER/EQUIPMENT PROVIDER.
3. PLYWOOD BACKBOARD TO BE PROVIDED BY CONTRACTOR. IT CABINET TO BE PROVIDED BY OTHERS. COORDINATE EXACT REQUIREMENTS AND LOCATION WITH OWNER/EQUIPMENT PROVIDER PRIOR TO ROUGH-IN.
4. DUAL CHANNEL POWER POLE, WIREMOLD TELE-POWER POLES OR APPROVED EQUALS. POWER POLE TO BE FED FROM ABOVE ACCESSIBLE CEILING. FIELD COORDINATE EXACT LOCATION OF POWER POLE WITH OWNER/ARCHITECT PRIOR TO ROUGH-IN.
5. PROVIDE RECEPTACLE AND DATA OUTLET MOUNTED HIGH ON WALL FOR TV/MONITOR. COORDINATE EXACT LOCATION AND MOUNTING HEIGHT WITH OWNER/ARCHITECT PRIOR TO ROUGH-IN.
6. NO NEW WORK IN EXISTING AREA UNLESS OTHERWISE NOTED.
7. REFER TO TYPICAL DISCONNECT SWITCH - MOUNTING DETAIL, 1/E5.2.
8. REFER TO TYPICAL DISCONNECT SWITCH - MOUNTING DETAIL, 2/E5.2.

GENERAL NOTES: (DETAILS 1/E3.1 & 1/E4.1)

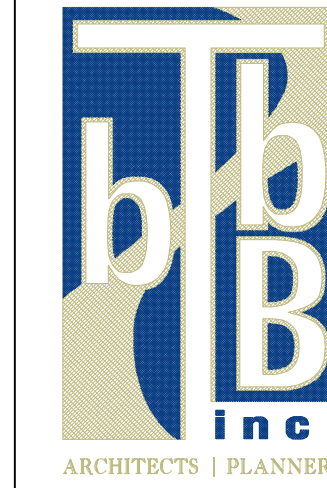
- A. COORDINATE EXACT LOCATIONS OF ALL MECHANICAL EQUIPMENT. PRIOR TO ELECTRICAL ROUGH-IN.
- B. ALL FLEXIBLE CONDUIT SHALL BE METALLIC WATERPROOF.
- C. COORDINATE FINAL RECEPTACLE AND VOICE/DATA OUTLET LOCATIONS WITH ARCHITECTURAL CASEWORK AND OWNER PRIOR TO ROUGH-IN. NO EXCEPTIONS.
- D. COORDINATE EXACT 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.

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

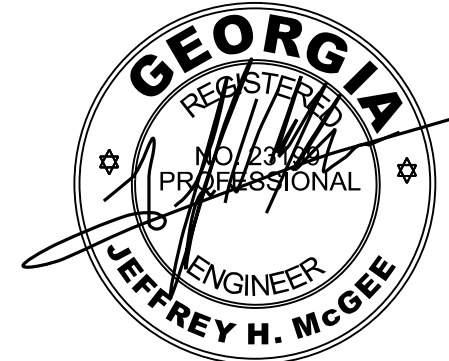
IN ACCORDANCE WITH CHAP 7, NFPA 72 THE FOLLOWING LIST REPRESENTS THE MINIMUM DOCUMENTATION REQUIRED BY THE AUTHORITY HAVING JURISDICTION FOR ALL FIRE ALARM SYSTEMS:

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 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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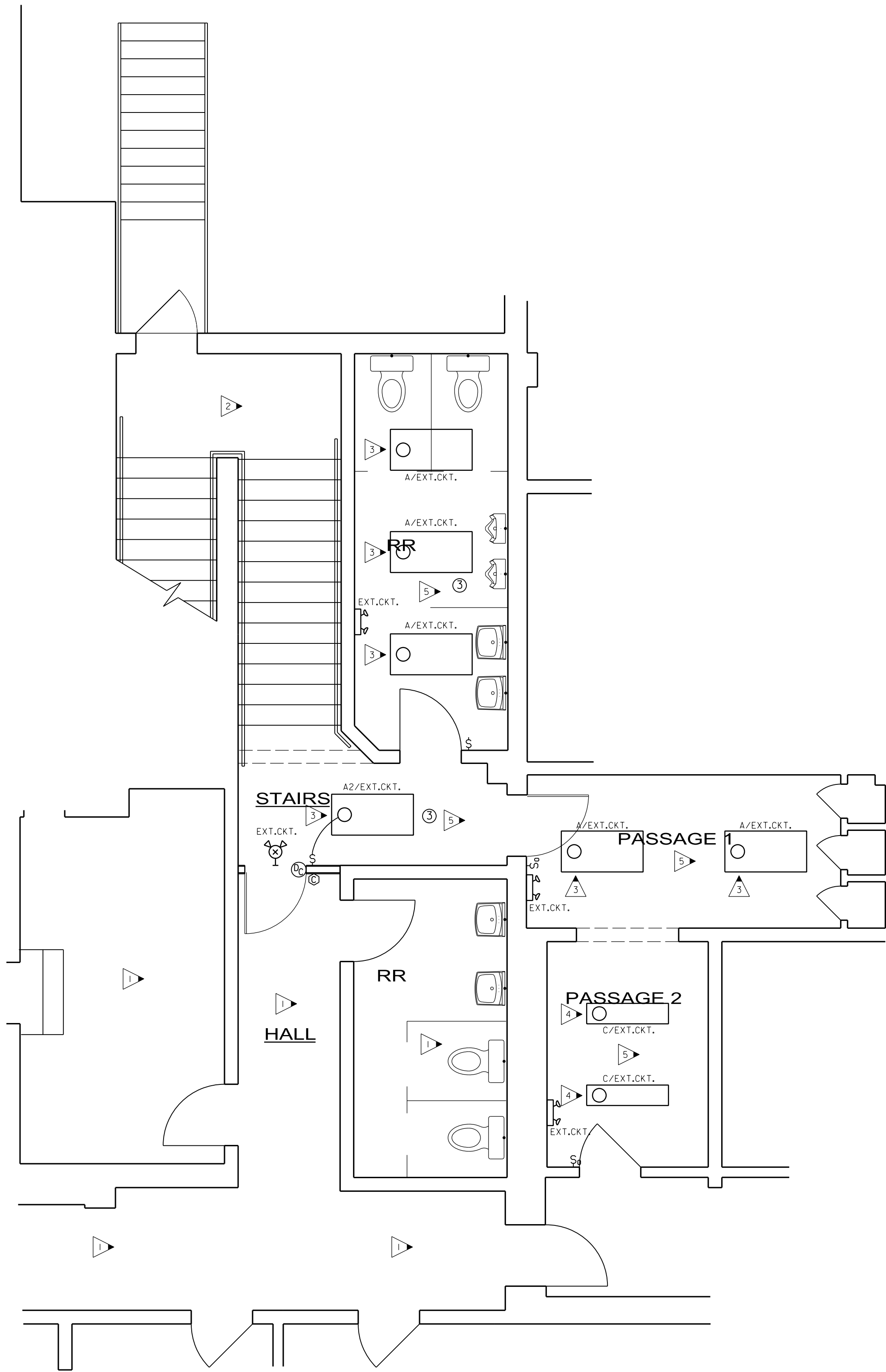
RENOVATIONS FOR MBC CODE ENFORCEMENT OFFICES 2ND FLOOR / CITY HALL CORNER FIRST & POPLAR ST. MACON, GA

Drawing Issue Schedule	
2/14/2025	Permit Set

Project No: 2024-34

EDC
ELECTRICAL DESIGN
CONSULTANTS
ELECTRICAL ENGINEERS
MACON OFFICE - PROJECT #: M25018
edc1973.com

Partial Second
Floor Plan -
Power & Systems
E3.1



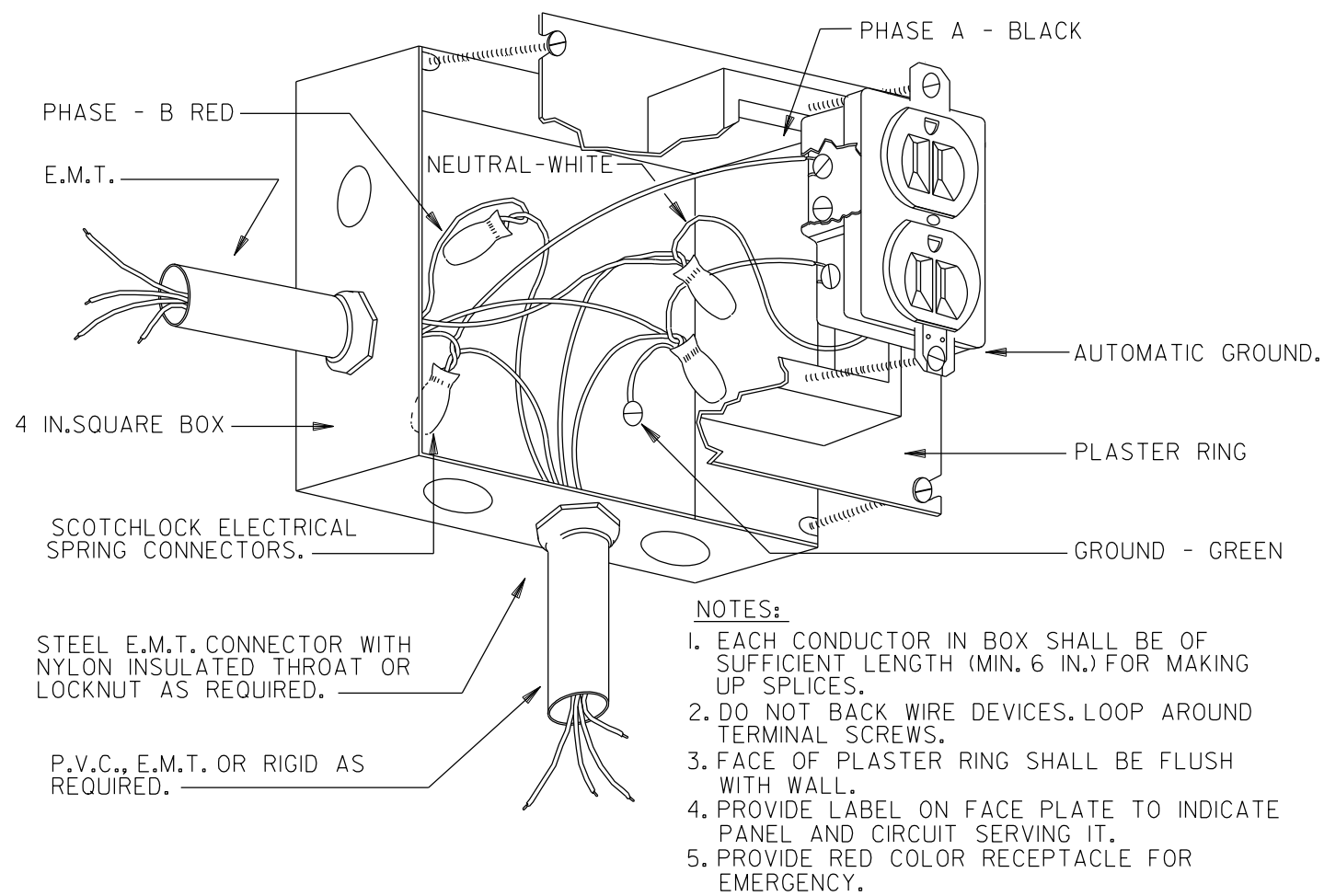
1
E4.1 PARTIAL FIRST FLOOR PLAN - ELECTRICAL
SCALE: 1/4"=1'-0"

KEYED NOTES: (THIS SHEET ONLY)

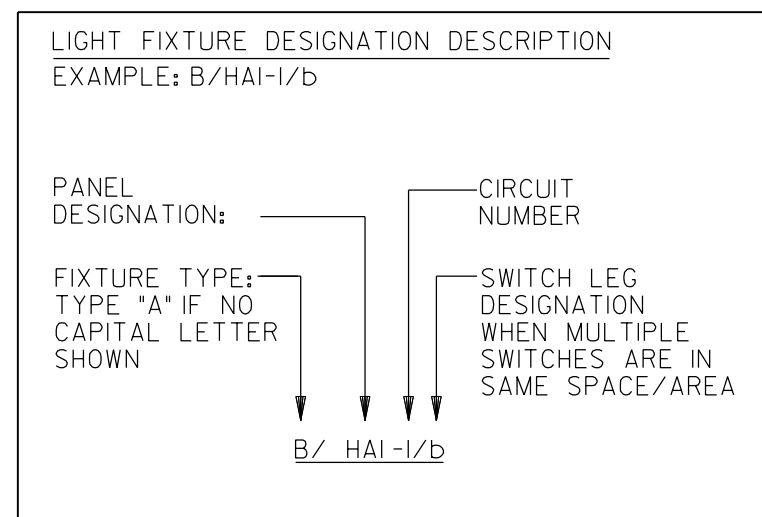
- NO NEW WORK IN EXISTING AREA UNLESS OTHERWISE NOTED.
- SEE SHEETS E2.1 AND E3.1 FOR NEW WORK IN AREA.
- NEW LIGHT FIXTURE RECESSED IN EXISTING CEILING GRID. FIELD VERIFY EXISTING LAYOUT OF CEILING GRID IN SPACE AND ADJUST FIXTURE LOCATIONS TO MATCH. CIRCUIT FIXTURE TO EXISTING LIGHTING CIRCUIT IN SPACE.
- NEW LIGHT FIXTURE TO REPLACE EXISTING FIXTURE 1-FOR-1. FIXTURE SURFACE MOUNTED ON EXISTING GYP CEILING. CIRCUIT FIXTURE TO EXISTING LIGHTING CIRCUIT IN SPACE.
- NO NEW POWER OR SYSTEM WORK IN EXISTING AREA UNLESS OTHERWISE NOTED. NEW LIGHTING FIXTURES AND LIGHTING CONTROLS TO BE PROVIDED IN AREA.

GENERAL NOTES: (DETAILS 1/E3.1 & 1/E4.1)

- A. SEE GENERAL LIGHTING NOTES ON SHEET E2.1.
- B. SEE GENERAL NOTES ON SHEET E3.1.



2
E4.1 RECEPTACLE CONNECTION DETAIL
NOT TO SCALE



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: Renovations for MBC Code Enforcement Offices 2nd Floor / City Hall
Project Type: Alteration

Construction Site:
545 First 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 (ft ²)	C Allowed Watts / ft ²	D Allowed Watts (B X C)
1-Office	4340	0.82	3559
Total Allowed Watts =			3559

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)
Office (4340 sq.ft.)				
A: A: 2 FT. X 4 FT. TROFFER: LED Panel 33W:	1	26	32	832
A2: A2: 2 FT. X 4 FT. TROFFER: LED Panel 40W:	1	38	40	1520
A3: A3: 2 FT. X 4 FT. TROFFER: LED Panel 54W:	1	4	49	196
B: B: 2 FT. X 2 FT. TROFFER: LED Panel 33W:	1	2	27	54
C: C: 4 FT. LED WRAP: LED Other Fixture Unit 30W:	1	2	35	70
D: D: 4 FT. LED STRIP LIGHT: LED Other Fixture Unit 25W:	1	3	28	78
E: E: ROUND SURFACE PANEL: LED Other Fixture Unit 10W:	1	4	20	80
F: F: 3 FT. VANITY FIXTURE: LED Other Fixture Unit 46W:	1	2	45	90
Total Proposed Watts =			2920	

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.

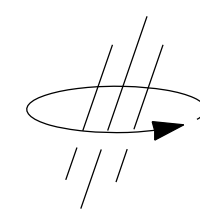
Jeffrey H. McGee, PE
Name - Title

Jeffrey H. McGee
Signature

02/13/25
Date

Project Title: Renovations for MBC Code Enforcement Offices 2nd Floor / City Hall
Data Filename: Z:\2025 CAD\M25018 MBC Code Enforcement\WORKING DRAWINGS\ELEC\LIGHTING\MBC Code Enforcement COMcheck.cck
Report date: 02/13/25

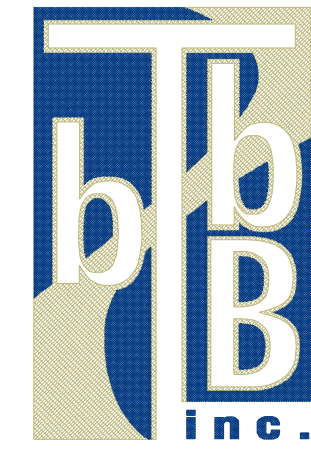
MECHANICAL EQUIPMENT POWER SCHEDULE					
UNIT NAME	VOLTAGE/ PHASE	CIRCUIT BREAKER	PANEL NAME/ CIRCUIT NUMBER	FEEDER	DISCONNECT SWITCH
HP-EX-1	208V/3PH	25A/3P	LP2-2	3#10, #10G, 3/4 IN. C.	30A/3P/3R
HP-EX-2	208V/3PH	25A/3P	LP2-8	3#10, #10G, 3/4 IN. C.	30A/3P/3R
AH-EX-1	208V/1PH	15A/2P	LP2-14	3#12, #12G, 3/4 IN. C.	30A/2P
AH-EX-2	208V/1PH	15A/2P	LP2-18	3#12, #12G, 3/4 IN. C.	30A/2P
HPU/ACU-1	208V/1PH	20A/2P	LP2-22	3#12, #12G, 3/4 IN. C.	30A/2P/3R
EF-1	120V	CONNECT TO LIGHTS	CONNECT TO LIGHTS	2#12, #12G, 1/2 IN. C.	MOTOR RATED SWITCH
EF-2	120V	CONNECT TO LIGHTS	CONNECT TO LIGHTS	2#12, #12G, 1/2 IN. C.	MOTOR RATED SWITCH
WH-1	208V/1PH	30A/2P	LP2-26	3#10, #10G, 3/4 IN. C.	MOTOR RATED SWITCH
RC-1	120V	20A/1P	LP2-17	2#12, #12G, 1/2 IN. C.	MOTOR RATED SWITCH
NOTES:					
1. SEE MECHANICAL FOR EXACT CONTROL REQUIREMENTS. 2. PROVIDE DUCT SMOKE DETECTOR IN SUPPLY AIR DUCT. UNIT SHALL COME COMPLETE WITH SAMPLING TUBE AND REMOTE TEST/RESET STATION LOCATED IN MECH/ELEC ROOM IN ACCESSIBLE LOCATION. DETECTOR SHALL SHUT DOWN UNIT UPON ACTIVATION. 3. EXISTING HVAC UNIT. FIELD VERIFY EXACT POWER REQUIREMENTS PRIOR TO ANY ELECTRICAL WORK. 4. INDOOR UNIT POWERED VIA OUTDOOR UNIT. 5. INTERLOCK AND POWER FAN VIA LIGHTING CIRCUIT IN AREA SERVED. PROVIDE 15 MINUTE TIME DELAY RELAY.					



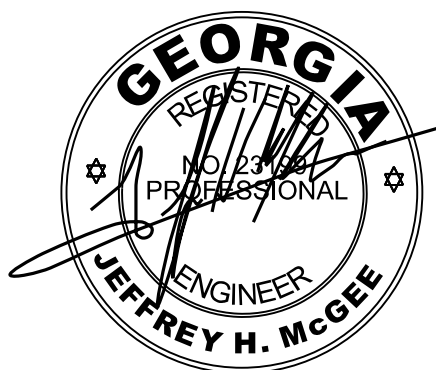
EDC

ELECTRICAL DESIGN
CONSULTANTS

ELECTRICAL ENGINEERS
MACON OFFICE - PROJECT #: M25018
edc1973.com



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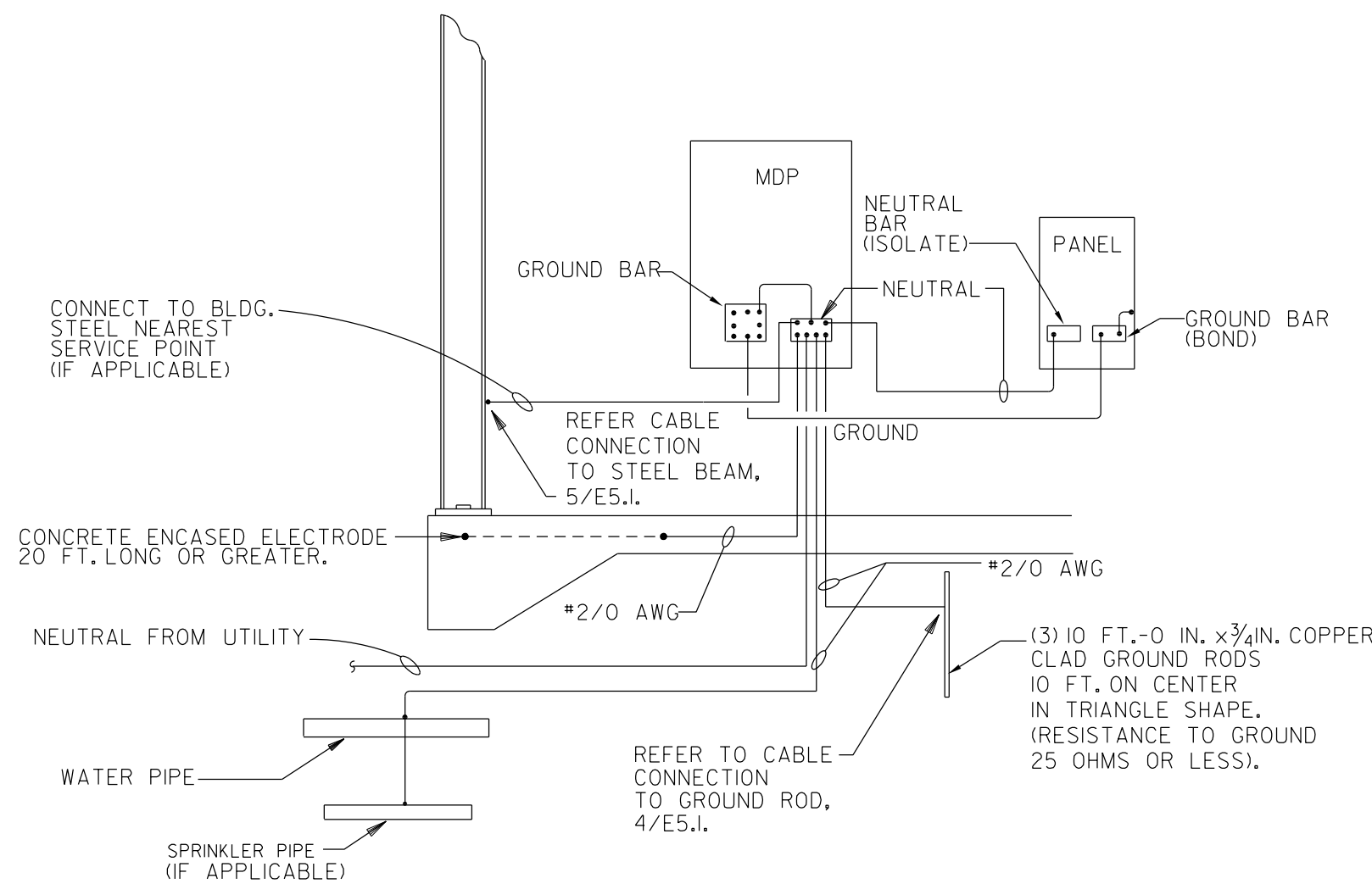
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**RENOVATIONS FOR
MBC CODE ENFORCEMENT OFFICES
2ND FLOOR / CITY HALL**
CORNER FIRST & POPLAR ST. MACON, GA

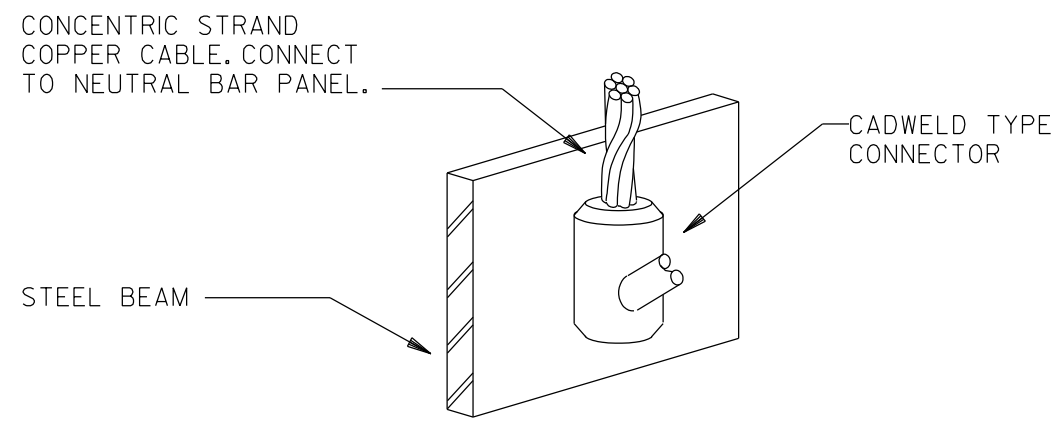
Drawing Issue Schedule	
2/14/2025	Permit Set
Project No:	2024-34

Partial First Floor
Plan - Electrical

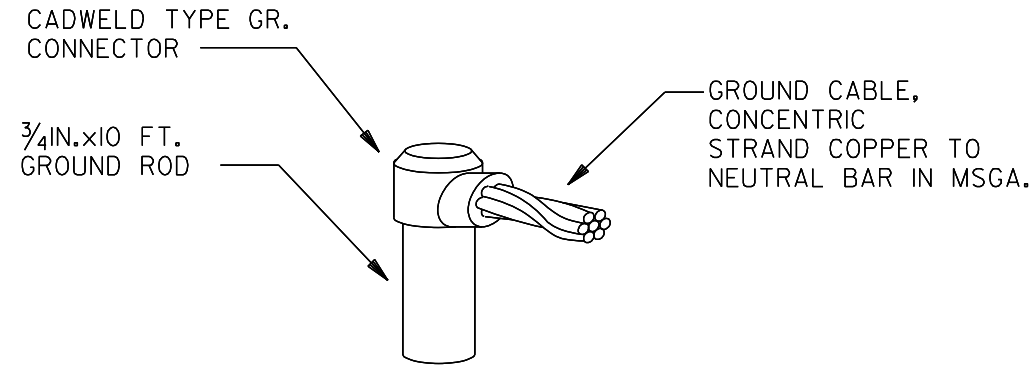
E4.1



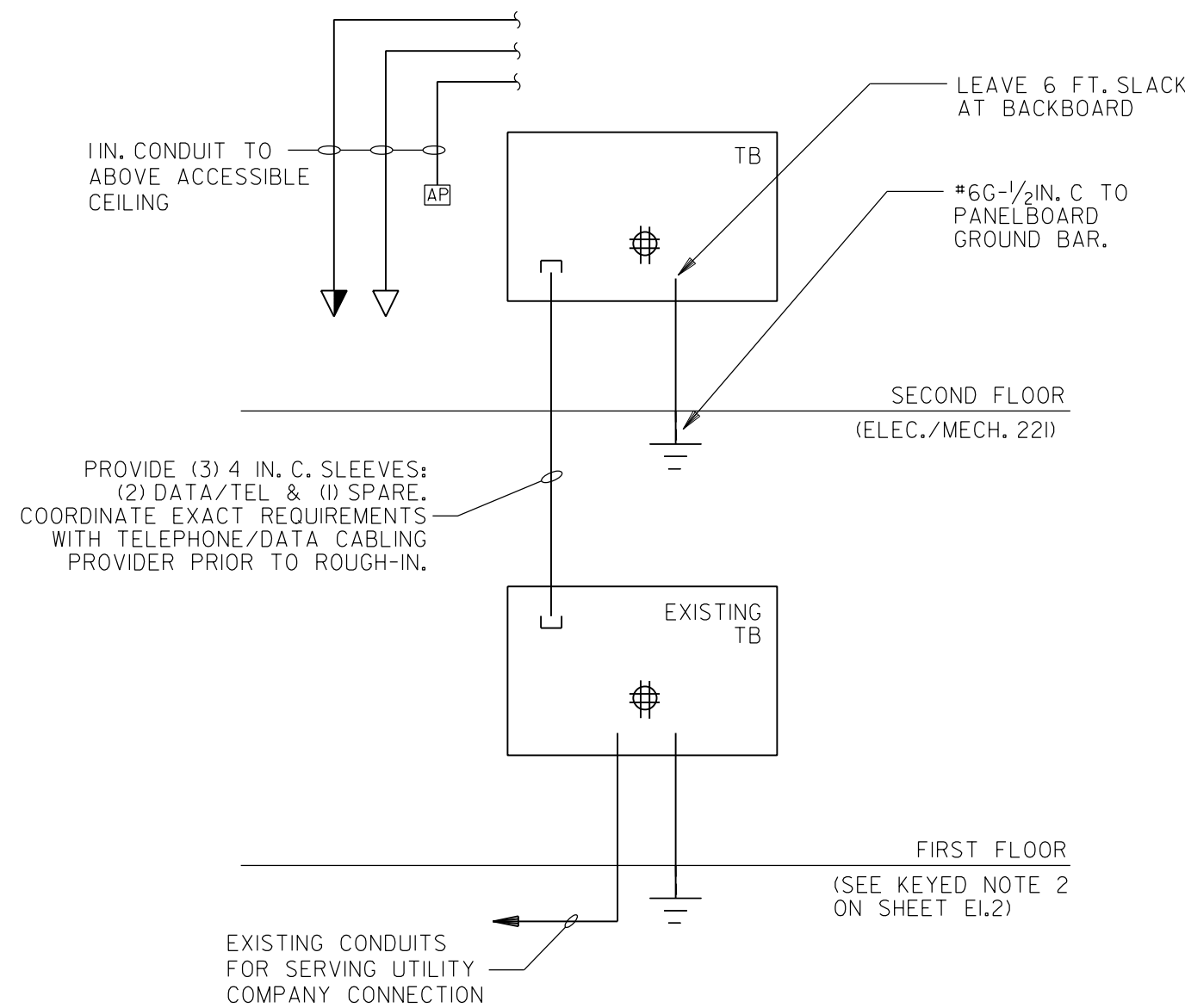
3 SERVICE GROUNDING DETAIL
E5.1 NOT TO SCALE



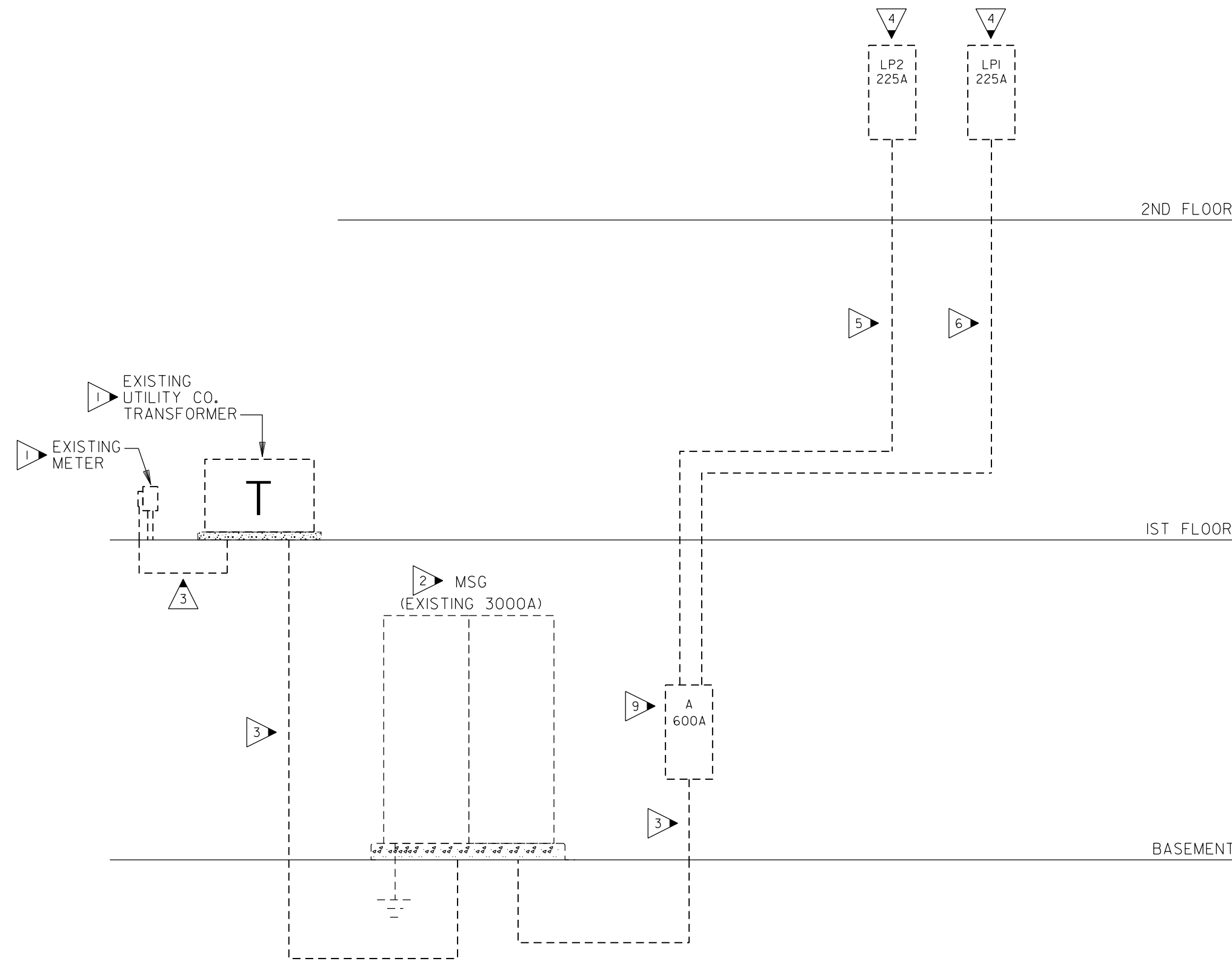
4 CABLE CONNECTION TO STEEL BEAM
E5.1 NOT TO SCALE



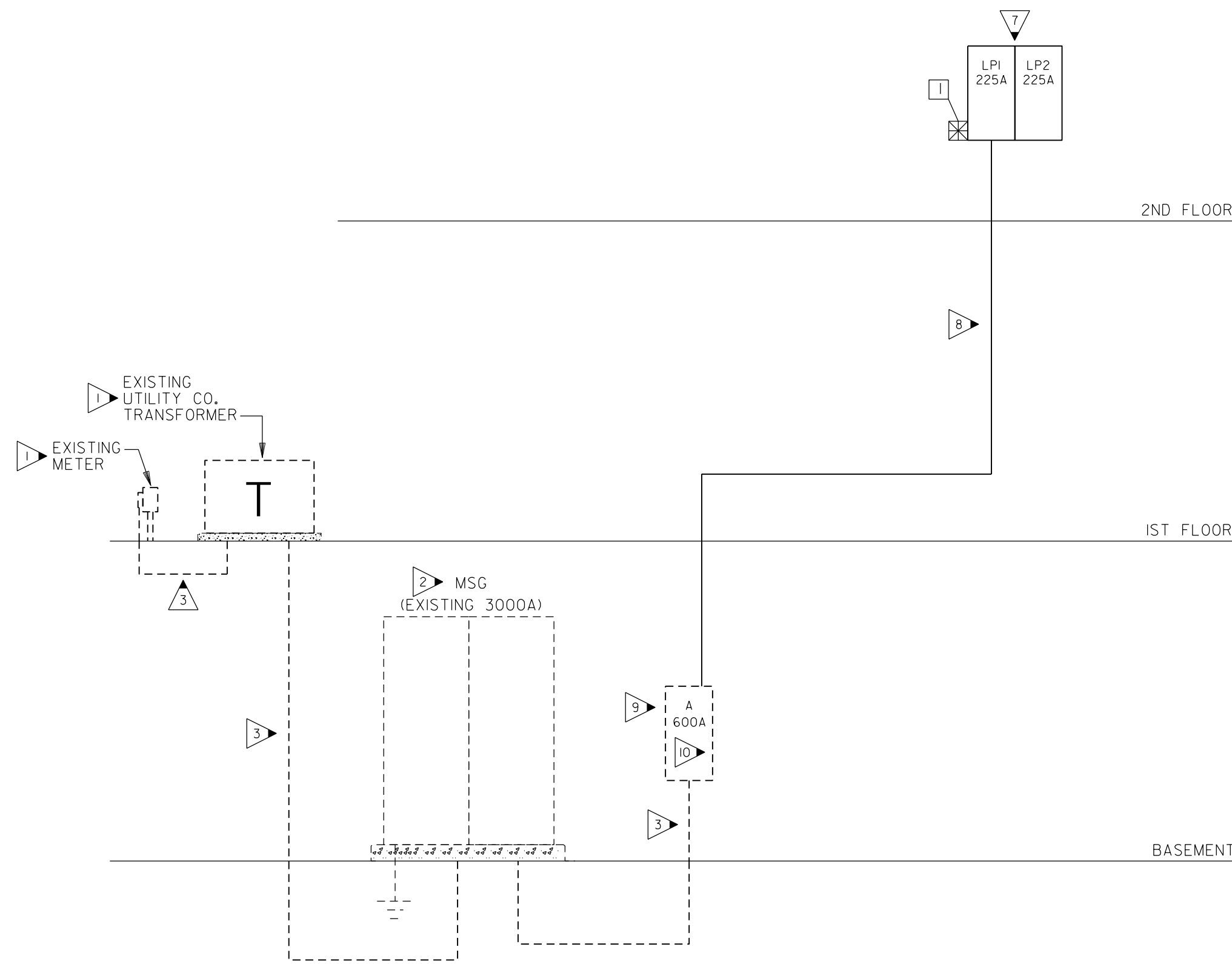
5 CABLE CONNECTION TO GROUND ROD
E5.1 NOT TO SCALE



6 TELEPHONE/DATA RISER
E5.1 NOT TO SCALE



1 EXISTING POWER RISER DIAGRAM
E5.1 NOT TO SCALE



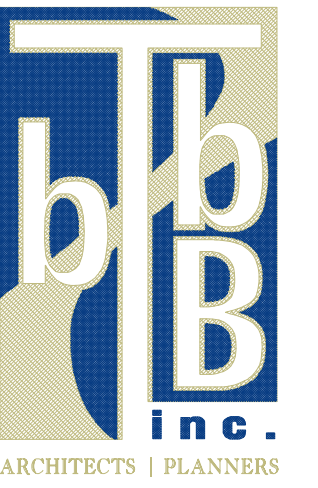
2 NEW POWER RISER DIAGRAM
E5.1 NOT TO SCALE

KEYED NOTES: (THIS SHEET ONLY)

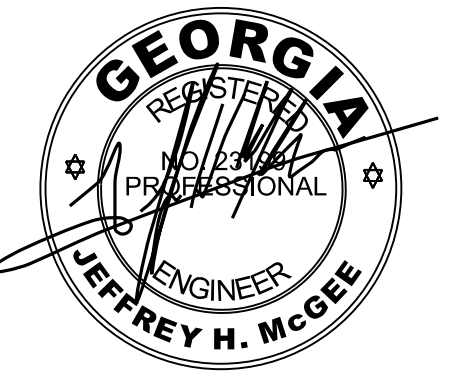
- EXISTING SERVICE EQUIPMENT TO REMAIN THROUGHOUT RENOVATION.
- EXISTING ELECTRICAL EQUIPMENT TO REMAIN THROUGHOUT RENOVATION.
- EXISTING CIRCUITRY TO REMAIN THROUGHOUT RENOVATION.
- EXISTING ELECTRICAL EQUIPMENT TO BE DEMOLISHED.
- EXISTING CIRCUITRY TO BE DEMOLISHED.
- EXISTING CIRCUITRY TO BE DEMOLISHED. EXISTING CONDUIT MAY BE REUSED IF POSSIBLE.
- PROVIDE NEW 120/208V, 3PH, 225A, 2-SECTION PANEL FOR NEW SERVICE.
- 4*4/0, #2G., 2 1/2 IN. C.
- EXISTING ELECTRICAL EQUIPMENT TO REMAIN AND BE MODIFIED. SEE KEYED NOTE 10.
- PROVIDE NEW 225A BREAKER IN EXISTING PANEL TO SERVE NEW PANEL LPI/LP2. SEE PANEL SCHEDULE "A" FOR MODIFICATIONS TO PANEL.

T.V.S.S.

MAIN SERVICE PANELS, PROVIDE 5-*6 CONDUCTORS IN 1" C FROM 60A/3P BREAKER IN SUPPLYING PANEL. PROVIDE BREAKER, U.L. 1449 LISTED, 200,000 SURGE CURRENT RATING, EATON EXTERNALLY MOUNTED "SPD" SERIES OR EQUAL.



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Drawing Issue Schedule	
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Project No:	2024-34

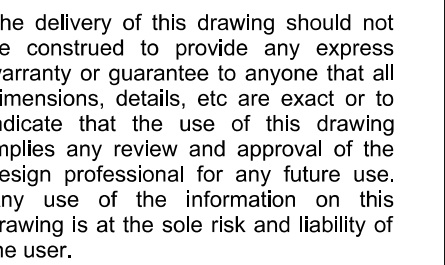
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edc1973.com

Power Riser
Diagram &
Electrical Details
E5.1



LP1/LP2 DEMAND CALCULATIONS			
	CONNECTED LOAD (VA)	DEMAND FACTOR	CALCULATED DEMAND (VA)
<u>TOTAL CONNECTED LOAD (VA)</u>	49,206		
LIGHTING	2,760	1.25	3,450
HVAC	13,062	1.00	13,062
HVAC (CONTINUOUS)	0	1.25	0
LARGEST MOTOR	20	1.25	25
MOTOR LOAD	20	1.00	20
RECEPTACLE (FIRST 10,000 VA)	10,000	1.00	10,000
RECEPTACLE (GREATER THAN 10,000 VA)	17,800	0.50	8,900
WATER HEATER	4,544	1.00	4,544
MISC LOADS	1,000	1.00	1,000
	DEMAND LOAD - VOLT-AMPERES		41,001
	DEMAND LOAD - 208V 3-PHASE AMPS		113.9

PANEL IS SIZED/RATED AS A 225AMP.

[illegible]

Drawing Issue Schedule	
2/14/2025	Permit Set
3/06/2025	Revision #1
Project No:	2024-34

