

**CONSULTANTS :**

**CIVIL**

Graham Engineering Services  
253 Carl Vinson Parkway  
Warner Robins, Georgia 31088



**STRUCTURAL**

Pi-Tech Structural Engineers  
115 Forest Hill Road  
Macon, Georgia 31210



**MECHANICAL / PLUMBING / FIRE PROTECTION**

Total Engineering  
169 New Street  
Macon, Georgia 31201



**ELECTRICAL**

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



**PROJECT TITLE :**

# MBC RADIO SHOP

4520 KNIGHT ROAD, MACON, GEORGIA

**PERMIT SET THROUGH REVISION #1**

**DRAWING INDEX : 42 TOTAL**

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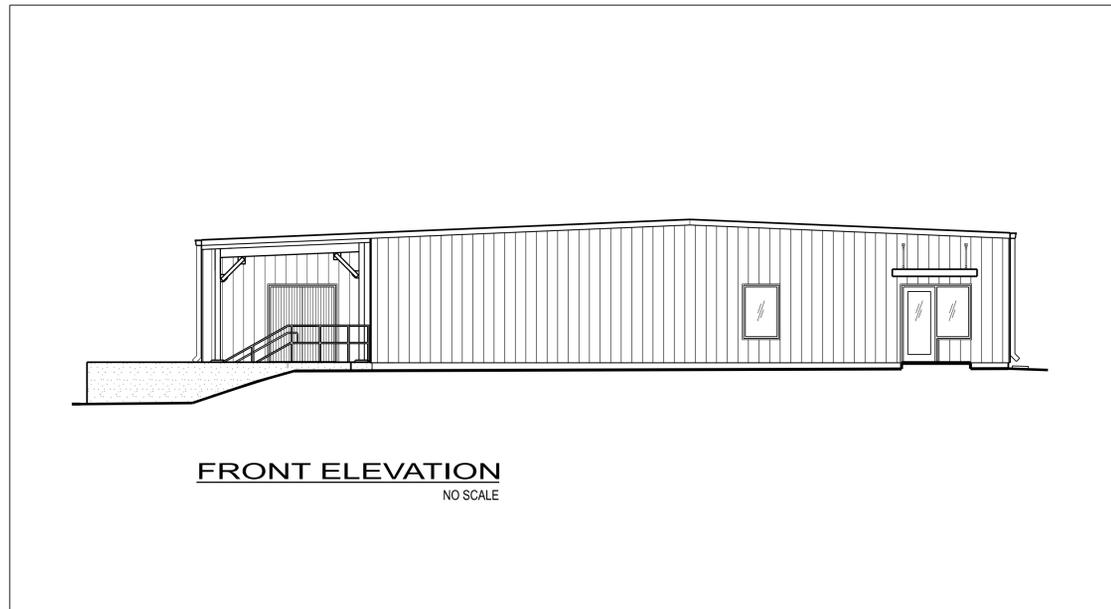
**BUILDING CODE ANALYSIS :**

**APPLICABLE CODES**

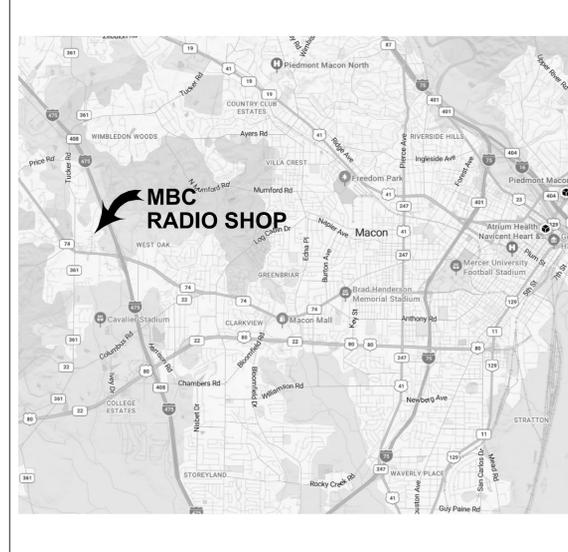
- 2018 International Building Code with Georgia Amendments
- 2018 International Fire Code as adopted and amended by the Rules and Regulations of the Safety Fire Code Commissioner Chapter 120-3-3-.04(3)
- 2024 Life Safety Code as adopted and amended by the Rules and Regulations of the Safety Fire Code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

**BUILDING DATA**

CONSTRUCTION TYPE:	II B UNSPRINKLERED
LIFE SAFETY CODE USE CLASSIFICATION(S):	BUSINESS STORAGE
OCCUPANCY TYPE: IBC	BUSINESS (B) STORAGE (S-2)
TOTAL BUILDING AREA:	2,944.5 SF
DESIGN OCCUPANT LOAD:	
BUSINESS: 1,766 S.F. / 150 = 12 PEOPLE	
STORAGE: 895 S.F. / 300 = 3 PEOPLE	
TOTAL = 15 PEOPLE	
CHANGE OF USE:	NO
AUTO SPRINKLER SYSTEM:	NO
FIRE ALARM SYSTEM:	NO
DEFERRED SUBMITTALS (Separate permit)	



**VICINITY MAP :**



**PROJECT NARRATIVE:**

This building previously housed offices and storage space. The proposed use following renovation remains the same. A small addition will provide additional warehouse space.

**MBC DEPARTMENT APPROVAL**

- Communications
- Electrical
- Facilities
- HVAC
- IT



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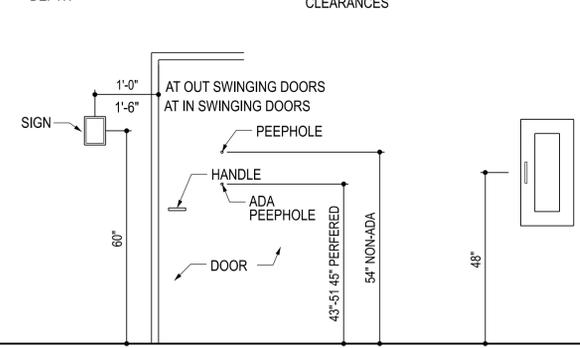
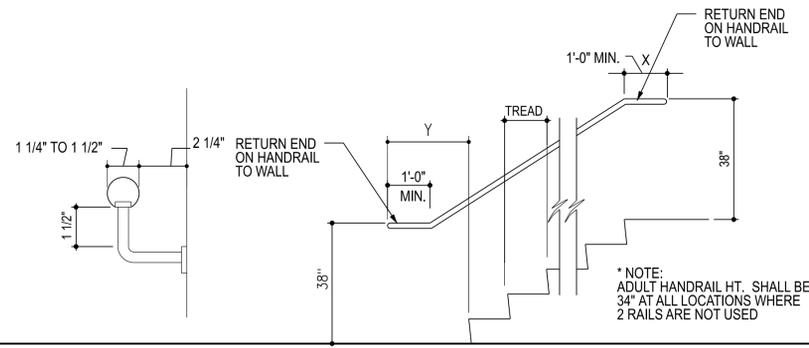
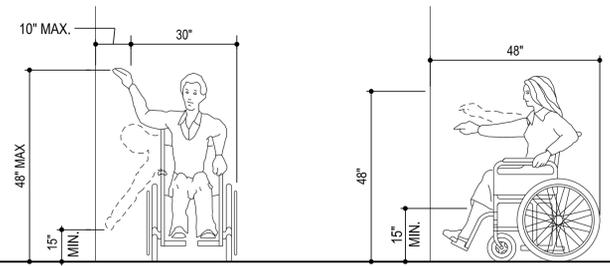
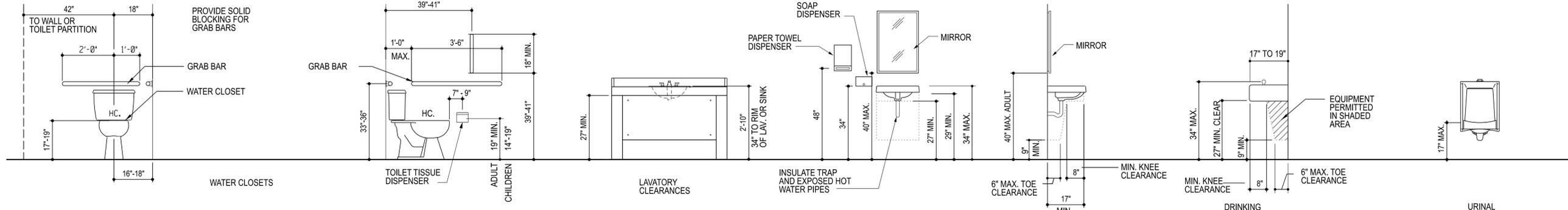
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**MBC RADIO SHOP**  
4520 KNIGHT ROAD, MACON, GEORGIA

Drawing Issue Schedule	
10-24-2025	Permit Set
11-17-2025	Revision #1
Project No:	2024-29

Tile Sheet,  
Drawing Index  
& Code Summary

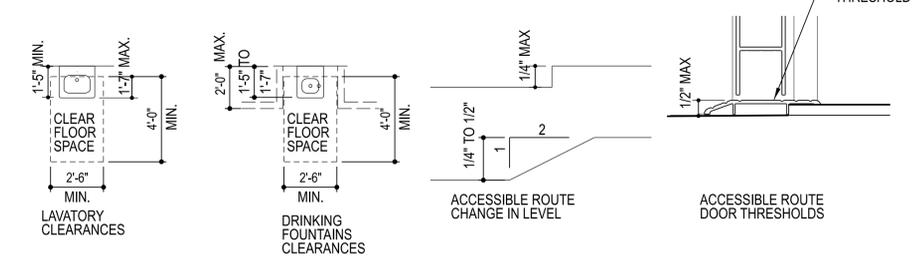
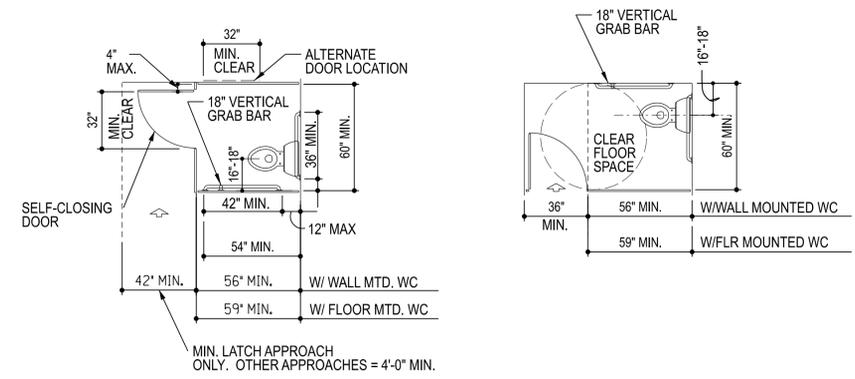
**G1.1-R.1**



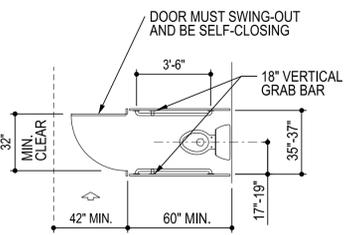
TYPICAL ADA WHEELCHAIR REACH RANGES

STANDARD WHEELCHAIR ACCESSIBLE STALLS

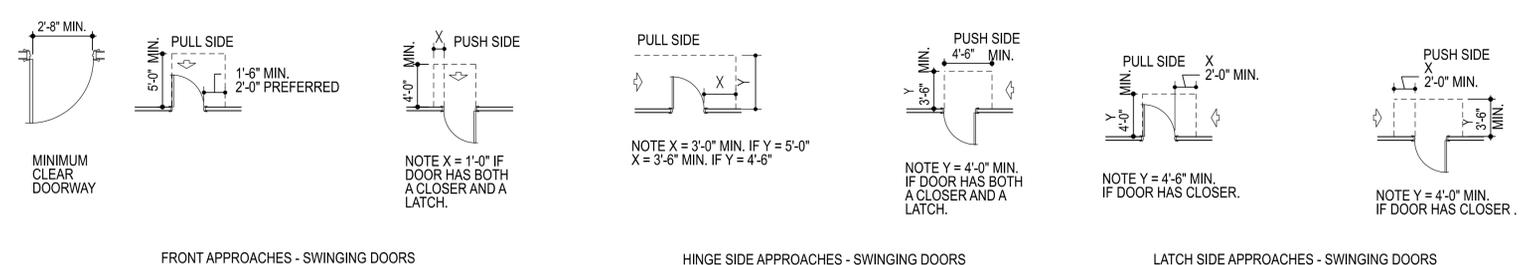
STANDARD ADA CLEARANCES



STANDARD AMBULATORY ACCESSIBLE TOILET COMPARTMENT



STANDARD ADA MANEUVERING CLEARANCES AT 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 FOLLOWS:
    - 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.
  - 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.
  - 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.
  - DOORS, TOILET STALL DOORS, INCLUDING DOOR HARDWARE, 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.
  - 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.
  - 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.

**MBC RADIO SHOP**  
4520 KNIGHT ROAD, MACON, GEORGIA

Drawing Issue Schedule	
10-24-2025	Permit Set
Project No:	2024-29

General Information  
**G1.2**

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B. FABRICATION:

- 1. NON-LABELED DOORS: MANUFACTURE TO THE DESIGNS SHOWN ON THE DRAWINGS. IN ACCORDANCE WITH AWI SECTION 1300, PREMIUM GRADE, TRANSPARENT FACTORY FINISH.
2. LABELED DOORS: MANUFACTURE TO THE DESIGNS 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.
3. 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.
1. TRANSPARENT FINISH:
(A) STAINING: FACTORY FINISH TO BE SELECTED BY ARCHITECT.
(B) FINISH: WDMA TR-6 CATALYZED POLYURETHANE.

ALUMINUM STOREFRONT SYSTEMS

- A. ALUMINUM ENTRANCE SYSTEMS SHALL BE EQUAL TO YK-YES45FI FOR INSULATING GLASS / YK-YES45FS FOR NON-INSULATING GLASS.
B. HIGH PERFORMANCE ORGANIC COATING FINISH: FACTORY APPLIED TWO-COAT 70% KYNAR RESIN BY ARKEMA OR 70% HYLAR RESIN BY SOLVAY SOLEXIS, FLUOROPOLYMER BASED COATING SYSTEM, POLYVINYLIDENE FLUORIDE (PVF-2), APPLIED IN ACCORDANCE WITH AAMA 2605 SPECIFICATIONS.
C. DOORS: DOORS SHALL BE WIDE STILE-TYPE DOORS (MIN. 5" STILE) YKK 50M. CORNER CONSTRUCTION SHALL CONSIST OF BOTH WELDS AND MECHANICAL FASTENERS. DOOR FRAME JAMBS SHALL BE FLUSH GLAZED SECTIONS WITH TUBULAR TRANSOM BAR AND HEADER.
D. FRAMING: ALL VERTICAL AND HORIZONTAL MEMBERS SHALL HAVE A FACE DIMENSION OF 2" (INSULATING GLASS) AND DEPTH OF 4 1/2". FRAMING MEMBERS SHALL BE OF TWO-PIECE CONSTRUCTION, CONSISTING OF A BASIC WHITE MEMBER AND A SNAP-ON FRONT GLAZING RETAINER SEPARATED BY A RIGID PVC THERMAL BREAK INSERT DESIGNED TO PREVENT HEAT AND AIR TRANSMISSION THROUGH THE MEMBER.

E. GLASS, UNDER GLASS AND GLAZING:

- 1. GLASS FOR EXTERIOR STOREFRONT DOORS SHALL BE 1/4" TEMPERED GLASS.
2. GLASS FOR EXTERIOR STOREFRONT WINDOWS, SIDELIGHTS, AND TRANSOMS SHALL BE 1" INSULATING GLASS. (SEE GLASS AND GLAZING)
F. SHOP ASSEMBLY: FABRICATE AND ASSEMBLE UNITS WITH JOINTS ONLY AT INTERSECTION OF ALUMINUM MEMBERS WITH UNIFORM HAIRLINE JOINTS; RIGIDLY SECURE AND SEALED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
1. HARDWARE: DRILL AND CUT TO TEMPLATE FOR HARDWARE. REINFORCE FRAMES AND DOOR STILES TO RECEIVE HARDWARE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
2. WELDING: CONCEAL WELDS ON ALUMINUM MEMBERS IN ACCORDANCE WITH AWS RECOMMENDATIONS OR METHODS RECOMMENDED BY MANUFACTURER. MEMBERS SHOWING WELDING BLOOM OR DISCOLORATION ON FINISH OR MATERIAL DISTORTION WILL BE REJECTED.
G. INSTALL MANUFACTURER'S SYSTEM IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS, WITHIN SPECIFIED TOLERANCES.

GLASS AND GLAZING

- A. INSULATING GLASS: FORMED BY TWO PIECES OF 1/4 INCH THICK GLASS, MEETING REQUIREMENTS OF ASTM C1036 SEPARATED BY 1/2 INCH DEHYDRATED HERMETICALLY SEALED AIR SPACE. GLASS SHALL BE TEMPERED. OUTDOOR LITE SHALL BE SOLARGRAY® AND INDOOR LITE SHALL BE CLEAR WITH FIRST SURFACE SOLAR-BAN® 70 XL. GLASS SHALL BE SOLAR CONTROL LOW EMISSIVITY COATED.
B. TEMPERED GLASS: 1/4" TEMPERED SAFETY GLASS, HEAVY CLEAR SELECT, GLAZING QUALITY MEETING ANSI Z99.1.

FINISH HARDWARE

A. HARDWARE SCHEDULE:

Table with 4 columns: Item, Description, Quantity, and Notes. Includes items like HINGE, FULL MORTISE, FLUSH BOLT, DUST PROOF STRIKE, MORTISE LOCK, CYLINDER, SURFACE CLOSER, KICK PLATE, THRESHOLD, GASKETING, SWEEP, and ASTRAGAL.

Table with 4 columns: Item, Description, Quantity, and Notes. Includes items like HINGE, FULL MORTISE, MORTISE LOCK, CYLINDER, SURFACE CLOSER, KICK PLATE, THRESHOLD, GASKETING, RAIN GUARD, and SWEEP.

Table with 4 columns: Item, Description, Quantity, and Notes. Includes items like HINGE, FULL MORTISE, CYLINDRICAL LOCK, SURFACE CLOSER, KICK PLATE, WALL STOP, and GASKETING.

Table with 4 columns: Item, Description, Quantity, and Notes. Includes items like HINGE, FULL MORTISE, CYLINDER, SURFACE CLOSER, KICK PLATE, WALL STOP, and GASKETING.

HEADING #04

Table with 4 columns: Item, Description, Quantity, and Notes. Includes items like SGL DOORS, HINGE, FULL MORTISE, CYLINDRICAL LOCK, WALL STOP, and SILENCER.

HEADING #04.1

Table with 4 columns: Item, Description, Quantity, and Notes. Includes items like SGL DOOR, HINGE, FULL MORTISE, CYLINDRICAL LOCK, WALL STOP, THRESHOLD, GASKETING, SWEEP, and SILENCER.

HEADING #05

Table with 4 columns: Item, Description, Quantity, and Notes. Includes items like SGL DOORS, HINGE, FULL MORTISE, CYLINDRICAL LOCK, SURFACE CLOSER, KICK PLATE, WALL STOP, and GASKETING.

HEADING #06

Table with 4 columns: Item, Description, Quantity, and Notes. Includes items like SGL DOORS, SIDE WALL TRACK KIT, and DOOR PULL.

HEADING #07

Table with 4 columns: Item, Description, Quantity, and Notes. Includes items like SGL DOOR, MORTISE DEADLOCK, HOUSING, CYLINDER, and PUSH BAR & PULL.

NOTE: BALANCE OF HARDWARE TO BE FURNISHED BY DOOR SUPPLIER.

GYPSON BOARD SYSTEMS

- A. METAL STUDS: CHANNEL TYPE, ROLL FORMED FROM GALVANIZED STEEL, DESIGNED FOR SCREW ATTACHMENT OF GYPSON 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 1 1/4-INCH DIAMETER SERVICE HOLE, 8 INCHES FROM END.
B. METAL RUNNERS (FLOOR AND CEILING TRACK): GALVANIZED STEEL, IN WIDTH AND GAUGE OF STUDS WITH WHICH USED, 1 1/4-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: 2 1/4" 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 1 1/2-INCH FURRING CHANNELS.
F. HANGER WIRE: 9 GAUGE, GALVANIZED.
G. GYPSON WALLBOARD:

- 1. FIRE RATED: 5/8 INCH THICK, TAPERED EDGE, MEETING REQUIREMENTS OF ASTM C36 FOR TYPE "X" PANELS AND FIRE ENDURANCE TEST AS OUTLINED IN ASTM C-473.
2. INSTALL MOISTURE-RESISTANT GYPSON BOARD AT ALL RESTROOM WALLS.

- H. FINISH LEVELS:
1. WALLS (EXCEPT SMOKE/FIRE WALLS ABOVE CEILINGS) - LEVEL 4
2. CEILINGS - LEVEL 5
3. SMOKE/FIRE WALLS (ABOVE CEILINGS) - LEVEL 3

- I. FASTENERS:
1. FOR ATTACHING GYPSON WALLBOARD TO WOOD FRAMING, FASTENERS SHALL BE 1 1/4-INCHES TYPE W COARSE THREAD WALLBOARD NAIL, CEMENT COATED.
2. FOR ATTACHING GYPSON WALLBOARD TO METAL FRAMING, FASTENERS SHALL BE 1-7/8 INCHES, TYPE S, BUGLE HEAD SCREWS, CADMIUM PLATED.
3. FOR ATTACHING SCREW FURRING CHANNELS TO 1 1/2-INCH FURRING CHANNELS, FASTENERS SHALL BE MANUFACTURER'S STANDARD FURRING CHANNEL CLIP.
4. 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.
5. FOR ATTACHING FRAMING MEMBERS TOGETHER SHALL BE TYPE S, PAN-HEAD SCREWS IN SIZES RECOMMENDED BY THE METAL STUD MANUFACTURER FOR APPLICATIONS REQUIRED.
6. FOR ATTACHING METAL RUNNERS TO STRUCTURAL STEEL SHALL BE POWER ACTUATED TYPE, AS RECOMMENDED BY THE METAL STUD MANUFACTURER FOR APPLICATIONS REQUIRED.

- J. ACCESSORIES:
1. OUTSIDE CORNER BEAD: ALL METAL, HOT-DIPPED GALVANIZED, 1" X 1" AND WEIGHING NOT LESS THAN 114 POUNDS PER MLF.
2. 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.
3. INSIDE CORNER REINFORCEMENT: PERFORATED FIBER TAPE WITH CHAMFERED WAFER-THIN EDGES, 2-1/16 INCHES WIDE AND MEETING ASTM C475.

- K. TAPE: PERFORATED FIBER TAPE WITH CHAMFERED WAFER-THIN EDGES, 2-1/16" WIDE AND MEETING ASTM C475.

- L. JOINT COMPOUND: READY-MIXED COMPOUND, MEETING ASTM C475.

- M. SEALANT: ACRYLIC LATEX, GUN-GRADE, PAINTABLE.

- N. SOUND ATTENUATION BLANKETS:
1. 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, 3/4" THICK.
C. HANGER WIRE: 12 GAUGE, GALVANIZED.
D. DIRECT LOAD CEILING CLIP: MANUFACTURER'S STANDARD.

O. INSTALLATION:

- 1. 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.
2. 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.
3. INSTALLATION OF SOUND ATTENUATION BLANKETS: INSTALL IN ALL METAL STUD WALLS, FULL HEIGHT OF PARTITION.
4. INSTALLATION OF GYPSON 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 GYPSON BOARD SHALL BE 5/8" TYPE "X" GYPSON BOARD EXCEPT AT NEW RESTROOM WALLS.
A) INSTALL MOISTURE-RESISTANT GYPSON BOARD AT ALL 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.
P. 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.
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.
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.

SUSPENDED ACOUSTICAL TILE CEILINGS

- A. ACOUSTICAL TILE EQUAL TO ARMSTRONG CIRUSS 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, 3/4" 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. FT. 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 RANGE OF 7 TO 9, THE INSTALLATION MUST NOT PROCEED UNTIL THE PROBLEM HAS BEEN CORRECTED.
(A) SPECIAL NOTE: IF PH READING EXCEEDS 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

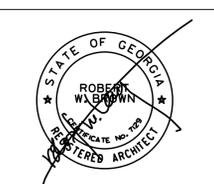
- A. BASIS OF DESIGN: STRUCTOGLAS FLAT FIBERGLASS REINFORCED PLASTIC COMPOSITE (FRP) PANELS AS MANUFACTURED BY CRANE COMPOSITES, INC.
B. FRP PANELS:
1. RATING: SURFACE BURNING CLASSIFICATION: CLASS A; FLAMESPREAD (ASTM E84) - 25 OR LESS; SMOKE DEVELOPED (ASTM E84) - 450 OR LESS.
2. FINISH, THICKNESS: 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/FSPS 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
D PRATT & LAMBERT PL
PPG PAINTS PPG
SHERWIN WILLIAMS SW
B. EXTERIOR PAINTING:
1. FERROUS METAL:
(A) PRIMER - MULTI PURPOSE ALKYD ONE COAT (IN ADDITION TO SHOP COAT):
BM V131 COROTECH UNIV METAL PRIMER
D MIRROLAC ALL PURPOSE METAL AND GALVANIZED PRIMER - DP3201
PL STEELTECH® RUST INHIBITIVE METAL PRIMER
PPG 6-208 SPEEDHIDE RUST INHIBITIVE PRIMER
(B) FINISH - RUST INHIBITIVE ALKYD GLOSS INDUSTRIAL ENAMEL TWO COATS:
BM V200 COROTECH ALKYD ENAMEL
D BAR-0X ALKYD GLASS ENAMEL - DP581XX
PL S1100 RED SEAL ENAMEL
PPG 7 LINE INDUSTRIAL ENAMEL GLOSS OIL



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MBC RADIO SHOP
4520 KNIGHT ROAD, MACON, GEORGIA

Table with 2 columns: Date and Description. Includes Drawing Issue Schedule with dates 10-24-2025 and Permit Set.

Drawing Specifications
G1.4

2. GALVANIZED METAL:
- (A) PRIMER – MULTI PURPOSE ALKYD PRIMER ONE COAT:  
 BM HP04 ULTRA SPEC  
 D MIRROLAC ALL PRPOSED METAL & GALVANIZED PRIMER – DP13201  
 PL P1001 MULTI PURPOSE PRIMER  
 PPG 90-712 PITT-TECH DTM PRIMER
- (B) FINISH – GLOSS ACRYLIC ENAMEL: TWO COATS:  
 BM HP28 ULTRA SPEC  
 D  
 PL Z2400 RED SEAL ENAMEL  
 PPG 90-374 PITT-TECH HIGH GLOOS DTM
- C. 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, 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

**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 (VH) 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 THREE THOUSAND DOLLARS (\$3,000) TO FURNISH AND INSTALL OTHER INTERIOR SIGNAGE OTHER THAN RESTROOM AND EXIT SIGNS DESCRIBED HEREIN.

**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 FS900 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.

**BLINDS**

- A. BASIS OF DESIGN: GRABER 2" DESIGNER VINYL BLINDS AS MANUFACTURED BY SPRING WINDOW FASHIONS / MONTGOMERY, PA.
- B. LOCATION:  
 1. ALL EXTERIOR WINDOWS.  
 (A) DO NOT INSTALL BLINDS AT DOORS, SIDELIGHTS, OR TRANSOMS.
- C. MULTIPLE WINDOW UNITS:  
 1. FOR DOUBLE WINDOW UNITS, BLINDS MAY BE FABRICATED AS A SINGLE UNIT FOR THE FINISHED WINDOW OPENING.



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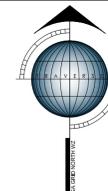
**MBC RADIO SHOP**  
 4520 KNIGHT ROAD, MACON, GEORGIA

Drawing Issue Schedule	
10-24-2025	Permit Set
Project No:	2024-29

Drawing Specifications  
**G1.5**







**TRAVERSE**  
LAND SERVICES, LLC  
SURVEY - PLAN - DESIGN  
253 CARL VINSON PARKWAY  
WARNER ROBINS, GA. 31088  
478.922.7724 www.traverse-ls.com



**GRAHAM ENGINEERING SERVICES**  
DESIGN - PLAN - CONSULTING  
253 CARL VINSON PARKWAY  
WARNER ROBINS, GA. 31088  
478.449.5820  
grahamengineeringservices.com

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CONSTRUCTION DOCUMENTS For:  
**MACON RADIO SHOP**

LAND LOT 40  
MACON-BIBB COUNTY  
4th DISTRICT  
GEORGIA

PN: 25024  
DN: 25024-M  
DRAWN BY: JMT  
FIELD DATA BY: -  
FIELD DATE: -  
REVIEW BY: C/JG  
DATE: 10.24.25  
SCALE: 1"=20'

REVISIONS	DATE	COMMENT

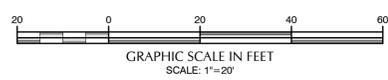
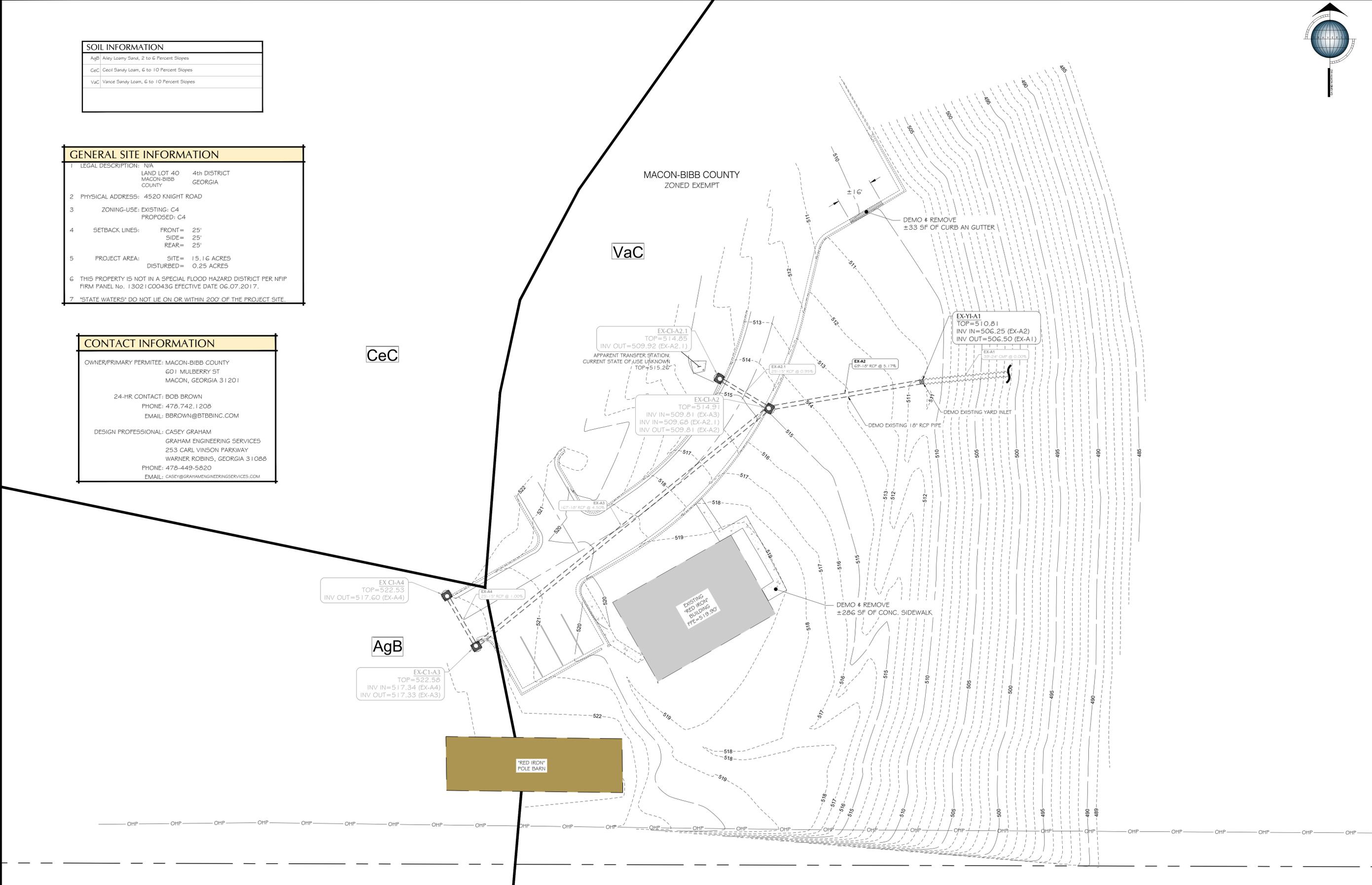
SHEET  
**C201**

EXISTING CONDITIONS  
DEMOLITION PLAN

SOIL INFORMATION	
AgB	Alley Loamy Sand, 2 to 6 Percent Slopes
CeC	Cecil Sandy Loam, 6 to 10 Percent Slopes
VaC	Vance Sandy Loam, 6 to 10 Percent Slopes

GENERAL SITE INFORMATION	
1	LEGAL DESCRIPTION: N/A LAND LOT 40 4th DISTRICT MACON-BIBB COUNTY GEORGIA
2	PHYSICAL ADDRESS: 4520 KNIGHT ROAD
3	ZONING-USE: EXISTING: C4 PROPOSED: C4
4	SETBACK LINES: FRONT= 25' SIDE= 25' REAR= 25'
5	PROJECT AREA: SITE= 15.16 ACRES DISTURBED= 0.25 ACRES
6	THIS PROPERTY IS NOT IN A SPECIAL FLOOD HAZARD DISTRICT PER NFIP FIRM PANEL No. 13021 CO043G EFFECTIVE DATE 06.07.2017.
7	*STATE WATERS* DO NOT LIE ON OR WITHIN 200' OF THE PROJECT SITE.

CONTACT INFORMATION	
OWNER/PRIMARY PERMITEE:	MACON-BIBB COUNTY 601 MULBERRY ST MACON, GEORGIA 31201
24-HR CONTACT:	BOB BROWN PHONE: 478.742.1208 EMAIL: BBROWN@BTBBINC.COM
DESIGN PROFESSIONAL:	CASEY GRAHAM GRAHAM ENGINEERING SERVICES 253 CARL VINSON PARKWAY WARNER ROBINS, GEORGIA 31088 PHONE: 478-449-5820 EMAIL: CASEY@GRAHAMENGINEERSERVICES.COM



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Certification No. 416

GSWCC L2 Design Professional  
Certification No. 82580









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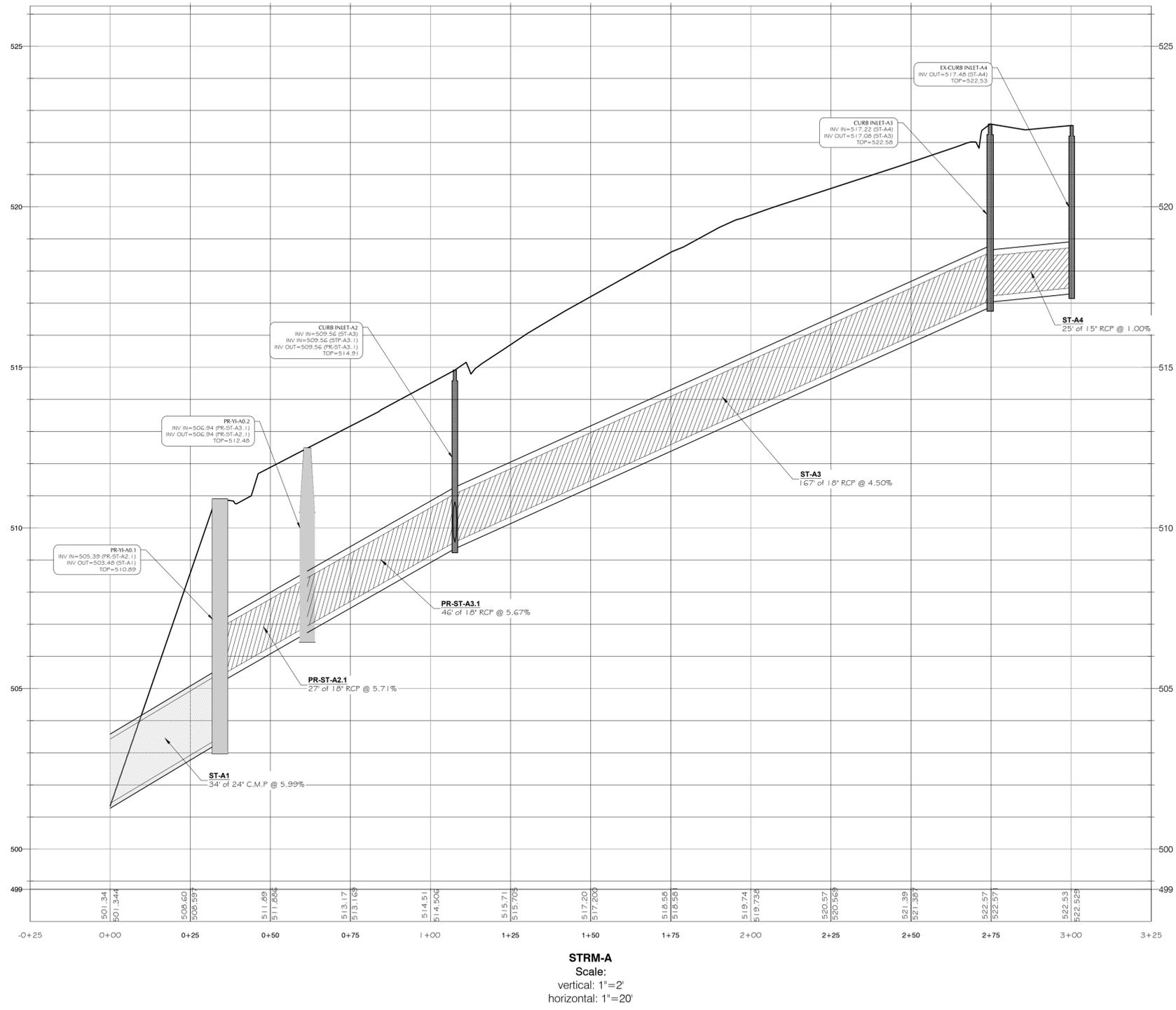


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CONSTRUCTION DOCUMENTS For:  
**MACON RADIO SHOP**  
LAND LOT 40  
MACON-BIBB COUNTY  
4th DISTRICT  
GEORGIA

PN:	25024
DN:	25024-M
DRAWN BY:	JMT
FIELD DATA BY:	-
FIELD DATE:	-
REVIEW BY:	CJG
DATE:	10.24.25
SCALE:	1"=20'

REVISIONS	DATE	COMMENT



SHEET  
**C402**  
PIPE PROFILES



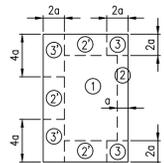




# GENERAL NOTES

- DEAD LOAD..... 15 PSF
- LIVE LOADS
  - ROOF LL..... 20 PSF
  - SLABS ON GRADE..... 100 PSF
- DESIGN WIND LOADS
  - BASIC WIND SPEED (V<sub>W</sub>)..... 109 MPH
  - NOMINAL WIND SPEED (V<sub>W</sub>)..... 85 MPH
  - RISK CATEGORY..... II
  - WIND EXPOSURE CATEGORY "C"
  - INTERNAL PRESSURE COEFFICIENT..... "C" = ±0.18
  - COMPONENTS & CLADDING DESIGN WIND PRESSURES:

ZONE	A = EFFECTIVE WIND AREA (FT <sup>2</sup> )				
	A=10	A=20	A=50	A=100	
WALLS	CORNER (5)	+24	+23	+22	+20
	OTHER (4)	+24	+23	+22	+20
ROOF	ZONE 1	+16	+16	+16	+16
	ZONE 1'	+16	+16	+16	+16
	ZONE 2	+16	+16	+16	+16
	ZONE 2'	+16	+16	+16	+16
	ZONE 3	+16	+16	+16	+16
	ZONE 3'	+16	+16	+16	+16
OVERHANG	ZONE 1 & 1'	-42	-41	-40	-40
	ZONE 2	-55	-50	-44	-39
	ZONE 3	-75	-67	-56	-48



ALL PRESSURES ARE INTENDED TO BE APPLIED AND INTERPRETED IN STRICT ACCORDANCE WITH ASCE 7-16. FOR THE PURPOSES OF APPLYING THESE LOADS IN ACCORDANCE WITH COMPONENTS & CLADDING FIGURES IN ASCE 7-16, q=3 FT.

- SEISMIC DESIGN
  - SEISMIC IMPORTANCE FACTOR..... I = 1.00
  - MAPPED SPECTRAL RESPONSE ACCELERATIONS.....
    - S<sub>s</sub> = 0.174
    - S<sub>1</sub> = 0.076
  - CITE CLASS "D" ASSUMED
  - SPECTRAL RESPONSE COEFFICIENTS.....
    - S<sub>w1</sub> = 0.186
    - S<sub>w2</sub> = 0.122
- SEISMIC DESIGN CATEGORY "B"
- BASIC LATERAL FORCE RESISTING SYSTEM:
  - STEEL ORDINARY MOMENT FRAME.
- DESIGN BASE SHEAR
  - ..... 1.2 KIPS
- SEISMIC RESPONSE COEFFICIENT
  - ..... C<sub>s</sub> = 0.053
- RESPONSE MODIFICATION FACTOR
  - ..... R = 3.5
- ANALYSIS PROCEDURE USED: EQUIVALENT LATERAL FORCE PROCEDURE FOR SEISMIC DESIGN OF BUILDINGS
- SNOW LOADS
  - GROUND SNOW LOAD..... "p<sub>s</sub>" = 5 PSF
- CODES
  - INTERNATIONAL BUILDING CODE, 2018 ED. WITH LATEST GEORGIA AMENDMENTS.
  - REINFORCED CONCRETE: ACI 318-14.
  - 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, LATEST EDITION AND THE AMERICAN WELDING SOCIETY'S STRUCTURAL WELDING CODE, AWS D1.1-LATEST EDITION.
- PROVIDE TEMPORARY BRACING OF STRUCTURAL FRAMING UNTIL ALL PERMANENT BRACING, SHEAR WALLS, MOMENT CONNECTIONS, AND FLOOR AND ROOF DIAPHRAGMS ARE COMPLETELY INSTALLED. THE STRUCTURAL ELEMENTS ARE UNSTABLE UNTIL THE STRUCTURE IS COMPLETED IN ACCORDANCE WITH THE PLANS.
- SHOP DRAWINGS GENERAL NOTES: THE PLANS, SECTIONS, AND DETAILS PROVIDED AS PART OF THE CONTRACT DOCUMENTS SHALL NOT BE USED IN A REPRODUCIBLE FORM AS PART OF THE SHOP DRAWINGS. ALL FABRICATORS & SUPPLIERS SHALL ANTICIPATE THAT REVISIONS TO SUBMITTALS MAY BE REQUIRED. THIS INCLUDES MODIFICATIONS TO DETAILS THAT ARE CHANGED FOR COORDINATION PURPOSES. NO ADDITIONAL FEES ARE PERMITTED FOR REVISING SUBMITTALS FOR WORK DESCRIBED IN THE CONTRACT DOCUMENTS.

# SOIL PARAMETERS

- SOIL PARAMETERS
  - FOOTINGS ARE DESIGNED FOR A MINIMUM ALLOWABLE SOIL BEARING PRESSURE OF 2500 POUNDS PER SQUARE FOOT. SPECIFIC SITE PREPARATION GUIDELINES MAY BE REQUIRED TO ACHIEVE THIS SOIL BEARING PRESSURE.
- IF SITE CONDITIONS DIFFER FROM THOSE INDICATED, THE DESIGN PROFESSIONAL SHALL BE NOTIFIED IMMEDIATELY.
- REFERENCE CIVIL GRADING AND DRAINAGE PLANS, DETAILS AND SPECIFICATIONS.
- ALL FOUNDATION WORK SHALL BE DONE "IN THE DRY".
- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY ALL EXISTING SITE CONDITIONS THROUGH AN INDEPENDENT SITE INVESTIGATION PRIOR TO COMMENCING WORK.
- DRAINAGE FILL TO BE 4" OF WELL GRADED CLEAN WASHED SAND (ASTM C-33) OR 4" COMPACTED GRADED AGGREGATE BASE OR 4" #57 STONE.

# REINFORCED CONCRETE GENERAL NOTES

- ALL CONCRETE WORK SHALL CONFORM TO ACI 301, "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS". DESIGN IS BASED ON ACI 318, "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE."
- CONCRETE SHALL BE NORMAL WEIGHT (150 PCF) AND SHALL DEVELOP A MINIMUM COMPRESSIVE STRENGTH OF 4000 PSI AT 28 DAYS.
- SUBMIT CONCRETE MIX DESIGNS FOR REVIEW, IN ACCORDANCE WITH ACI 301 & 318 TO THE ARCHITECT AND TESTING AGENCY.
- THE PROPOSED MATERIALS AND MIX DESIGN SHALL BE FULLY DOCUMENTED AND REVIEWED. RESPONSIBILITY FOR OBTAINING THE REQUIRED DESIGN STRENGTH IS THE CONTRACTOR'S.
- USE OF CALCIUM CHLORIDE, CHLORIDE IONS, OR OTHER SALTS IN CONCRETE IS NOT PERMITTED.
- THE AIR CONTENT AT THE POINT OF PLACEMENT SHALL BE PER ACI 318 TABLE 19.3.3.1 FOR MODERATE EXPOSURE (F1). HARD TROWLED SLABS OR SLABS ON GRADE THAT WILL RECEIVE TOPFINISH SHALL NOT RECEIVE AIR ENTRAINMENT UNLESS PERMITTED BY TOPPING MANUFACTURER.
- THE TESTING AGENCY SHALL SAMPLE AND TEST EACH 100 CU. YARDS OR FRACTION THEREOF OF EACH CLASS OF CONCRETE PLACED EACH DAY. SAMPLE CONCRETE IN ACCORDANCE WITH ASTM C172. PERFORM THE FOLLOWING TESTS IN ACCORDANCE WITH THE INDICATED STANDARD:
  - SLUMP: ASTM C143
  - AIR CONTENT: ASTM C231 (NORMAL WEIGHT CONCRETE) ASTM C173 (LIGHT WEIGHT CONCRETE)
  - COMPRESSIVE STRENGTH: ASTM C39, WITH ONE CYLINDER AT 7 DAYS, 2 CYLINDERS AT 28 DAYS, AND ONE SPECIMEN HELD IN RESERVE.
  - CONCRETE TEMPERATURE: ASTM C1064
  - UNIT WEIGHT: ASTM C567
- MOIST CURE CONCRETE WITH MOISTURE PROTECTIVE COVER FOR A MINIMUM OF 7 DAYS.
- HORIZONTAL CONSTRUCTION JOINTS ARE PERMITTED ONLY WHERE INDICATED. THE LOCATION OF VERTICAL CONSTRUCTION JOINTS SHALL BE APPROVED BY THE ARCHITECT. CONSTRUCTION JOINTS SHALL BE THOROUGHLY ROUGHENED BY MECHANICAL MEANS, CLEANED, AND CAULKED.
- REINFORCING STEEL SHALL CONFORM TO ASTM A615, GRADE 60, UNLESS NOTED OTHERWISE.
- WELDED WIRE REINFORCING (W.W.R.) SHALL BE PLAIN WIRE CONFORMING TO ASTM A1064 AND SHALL BE PROVIDED IN FLAT SHEETS. LAP MESH AT LEAST ONE MESH SPACING AT SPLICES.
- TIE ALL REINFORCING STEEL AND EMBEDMENTS SECURELY IN PLACE PRIOR TO PLACING CONCRETE. PROVIDE SUFFICIENT SUPPORTS TO MAINTAIN THE POSITION OF REINFORCEMENT WITHIN SPECIFIED TOLERANCES DURING ALL CONSTRUCTION ACTIVITIES. "STICKING" DOWELS INTO WET CONCRETE IS NOT PERMITTED.
- REINFORCING STEEL SHALL HAVE THE FOLLOWING CONCRETE COVER UNLESS NOTED OTHERWISE:
  - CONCRETE CAST AGAINST EARTH (NOT FORMED): 3"
  - FORMED CONCRETE EXPOSED TO EARTH OR WEATHER
    - #6 BARS THROUGH #12 BARS 2"
    - #5 BARS AND SMALLER 1 1/2"
  - CONCRETE NOT EXPOSED TO EARTH OR WEATHER
    - SLABS AND WALLS 1"
- DO NOT PLACE PIPES EXCEEDING ONE-THIRD THE SLAB OR WALL THICKNESS WITHIN THE SLAB OR WALL UNLESS SPECIFICALLY SHOWN AND DETAILED ON STRUCTURAL DRAWINGS.
- DO NOT WELD OR TACK WELD REINFORCING STEEL UNLESS APPROVED OR DIRECTED BY THE STRUCTURAL ENGINEER.
- EXTERIOR SLABS SHALL DRAIN FREELY WITH A MAXIMUM VARIATION FROM THE INDICATED PLANE OF 1/4" PER 1'-0".

# INSPECTIONS

- INDEPENDENT STRUCTURAL TESTS AND INSPECTIONS SHALL COMPLY WITH THE REQUIREMENTS OF THE 2018 INTERNATIONAL BUILDING CODE WITH GEORGIA STATE AMENDMENTS. THE INSPECTOR SHALL BE RESPONSIBLE FOR INDICATING COMPLIANCE WITH THE APPROVED STRUCTURAL PLANS AND SHALL SUBMIT PROGRESS REPORTS AND INSPECTION REPORTS TO THE ARCHITECT OF RECORD.
- SATISFY MINIMUM INSPECTION AND QUALITY CONTROL REQUIREMENTS OF THE 2018 INTERNATIONAL BUILDING CODE WITH GEORGIA STATE AMENDMENTS.

# STRUCTURAL STEEL GENERAL NOTES

- ALL STRUCTURAL STEEL CONSTRUCTION SHALL CONFORM TO AISC 360-16 "SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS" AND THE "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES".
  - UNLESS NOTED OTHERWISE:
    - STEEL SHALL CONFORM TO ASTM A36 (36 KSI YIELD STRENGTH), EXCEPTIONS NOTED.
    - ALL WIDE FLANGE SHAPES SHALL CONFORM TO ASTM A992 (50 KSI YIELD STRENGTH).
    - ALL HSS SECTIONS SHALL CONFORM TO ASTM A500 (46 KSI YIELD STRENGTH).
  - ELECTRODES SHALL CONFORM TO E70-XX.
  - ALL BOLTS TO BE A325X, WITH THREADS EXCLUDED FROM THE SHEAR PLANE.
  - ALL ANCHOR RODS SHALL CONFORM TO ASTM F1554 (36 KSI YIELD STRENGTH) WITH HEAVY HEX NUTS AND STANDARD WASHERS. ANCHOR RODS SHALL BE WELDABLE UNLESS NOTED OTHERWISE.
  - ALL PL'S SHALL BE SUPPLIED FREE OF LAMINATIONS & IMPURITIES & SHALL CONFORM TO ASTM A36, U.N.O.
- SHOP DRAWINGS PREPARED IN ACCORDANCE WITH THE LATEST "STRUCTURAL STEEL DETAILING MANUAL" OF AISC SHALL BE SUBMITTED FOR APPROVAL. NO FABRICATION SHALL BEGIN UNTIL SHOP DRAWINGS ARE COMPLETED AND APPROVED.
- STEEL FRAMING CONNECTIONS SHALL BE BOLTED OR WELDED, AS INDICATED.
  - BOLTED JOINTS SHALL CONFORM TO AISC "SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS". BOLTS SHALL CONFORM TO ASTM A325 AND SHALL BE MINIMUM 3/4" DIAMETER, UNLESS NOTED OTHERWISE.
  - WELDS SHALL CONFORM TO THE "STRUCTURAL WELDING CODE" OF THE AMERICAN WELDING SOCIETY, AWS D1.1. USE E70XX ELECTRODES. WELDING PROCESSES AND OPERATORS SHALL BE QUALIFIED IN ACCORDANCE WITH AWS "STANDARD QUALIFICATIONS PROCEDURES". WELDERS SHALL CARRY PROOF OF QUALIFICATIONS TO JOBSITE.
- PROVIDE SHOP COAT OF STANDARD PRIMER PAINT. PRIMER TO BE COMPATIBLE WITH FINISH COAT. TOUCH-UP AREAS DAMAGED IN HANDLING AND ERECTION WITH THE SAME PAINT USED FOR SHOP COAT. STEEL SURFACES TO BE WELDED OR ENCASED IN CONCRETE OR FIREPROOFING, OR SURFACES RECEIVING WELDED SHEAR CONNECTORS SHALL NOT BE PAINTED.
- PROVIDE A NON-SHRINK, NON-METALLIC, SELF-LEVELING GROUT (F<sub>c</sub> = 5000 PSI, MIN.) UNDER BASE PLATES, AFTER SETTING AND LEVELING. NO "DRY-PACKING" PERMITTED.
- PROVIDE TEMPORARY BRACING OF STRUCTURAL FRAMING UNTIL ALL PERMANENT BRACING, MOMENT CONNECTIONS AND FLOOR AND ROOF DECKS (DIAPHRAGMS) ARE COMPLETELY INSTALLED. THE STRUCTURAL ELEMENTS ARE UNSTABLE UNTIL THE STRUCTURE IS COMPLETED IN ACCORDANCE WITH THE PLANS.

# COLD-FORMED METAL FRAMING GENERAL NOTES

- UNLESS NOTED OTHERWISE, COLD FORMED METAL FRAMING (LIGHT GAUGE METAL FRAMING) SHALL COMPLY WITH ASTM A1003, STRUCTURAL GRADE, TYPE H, METALLIC COATED. ALL MEMBERS SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A653, OR ALUMINUM/ZINC COATED IN ACCORDANCE WITH ASTM A792.
  - F<sub>y</sub> = 33 KSI (MATERIAL ≤ 18 GAUGE)
  - F<sub>y</sub> = 50 KSI (MATERIAL > 18 GAUGE)
- THE SCOPE OF COLD FORMED METAL FRAMING DESIGN FOR THIS PROJECT IS LIMITED TO THE FOLLOWING WITH SIZES AND DETAILS AS SHOWN ON THE DRAWINGS:
  - EXTERIOR WALLS AND SOFFITS
- ALL OTHER NON LOAD BEARING LIGHT GAUGE SHALL BE AS SPECIFIED BY THE ARCHITECT.
- ALL METAL TO METAL SCREW CONNECTIONS ARE BASED ON SECTION E4 OF THE AISI NORTH AMERICAN SPECIFICATION FOR DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS WHICH OUTLINES PROVISIONS FOR METAL TO METAL SCREW CONNECTIONS.
- FOR SCREWS, 3/4" MINIMUM CLEARANCE MUST BE MAINTAINED FROM ALL EDGES OF THE STEEL MEMBERS.
- A 3/4" MINIMUM ON CENTER SPACING MUST BE MAINTAINED BETWEEN ADJACENT SCREWS.
- ALL FIELD CUTTING OF STUDS MUST BE DONE BY SAWING OR SHEARING. TORCH CUTTING OF COLD-FORMED MEMBERS IS UNACCEPTABLE.
- NO NOTCHING OR COPING OF STUDS IS ALLOWED, UNLESS NOTED OTHERWISE.
- TEMPORARY BRACING SHALL BE PROVIDED AND REMAIN IN PLACE UNTIL WORK IS COMPLETELY STABILIZED.
- POWDER ACTUATED FASTENERS SHALL BE HILTI X-U (0.157") P.A.F. OR APPROVED EQUAL.
- SELF DRILLING SCREWS SHALL BE HILTI SELF DRILLING SCREWS (OR APPROVED EQUAL) OF THE SIZE AND QUANTITY SHOWN.
- ALL FASTENERS, ANCHORS, TIES, ETC. ARE TO BE INSTALLED EXACTLY PER MANUFACTURER'S WRITTEN INSTRUCTIONS.
- TYPICAL ATTACHMENT OF TRACK TO CONCRETE SLAB @ BOTTOM OF WALL TO BE (2) 0.157" HILTI X-U P.A.F. @ EACH STUD LOCATION, EMBED 1 1/4" MIN. (UNLESS NOTED OTHERWISE ON THESE DRAWINGS).
- TYPICAL ATTACHMENT OF TRACK/STUD TO STEEL BEAMS TO BE (2) 0.157" HILTI X-U P.A.F. @ EACH STUD LOCATION
- FOR TYPICAL TRACK ATTACHMENT TO STUDS U.N.O., PROVIDE (1) #10 S.D. SCREW THROUGH TRACK LEG INTO EACH FACE OF STUD. FOR DEFLECTION TRACKS, DO NOT ATTACH STUDS TO TRACK UNLESS CONTRACTOR PROVIDES DEFLECTION TRACK WITH VERTICALLY SLOTTED HOLES.

# COLUMN SCHEDULE

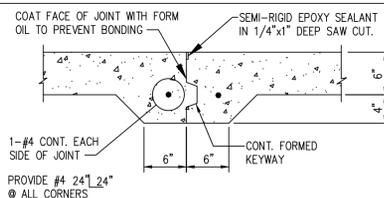
COL. NO.	FOOTING			COLUMN SIZE	COLUMN BASE		ROOF CAP PL. SIZE	COL. NO.
	SIZE	REINF. E. W.	ELEV. @ TOP		BASE PL. SIZE	BASE DET.		
A1	4'-0"x4'-0"x24"	#6 @ 12" O.C. TOP & BOT.	0.00'	HSS 6x6x1/4	1"x14"x1'-2"	TYP. HSS 6x6	1/4"x6"x0'-6"	A1
A2	4'-0"x4'-0"x24"	#6 @ 12" O.C. TOP & BOT.	0.00'	HSS 6x6x1/4	1"x14"x1'-2"	TYP. HSS 6x6	1/4"x6"x0'-6"	A2
B1	4'-0"x4'-0"x24"	#6 @ 12" O.C. TOP & BOT.	0.00'	HSS 6x6x1/4	1"x14"x1'-2"	TYP. HSS 6x6	1/4"x6"x0'-6"	B1
B2	4'-0"x4'-0"x24"	#6 @ 12" O.C. TOP & BOT.	0.00'	HSS 6x6x1/4	1"x14"x1'-2"	TYP. HSS 6x6	1/4"x6"x0'-6"	B2
B.3, 3	N/A	N/A	N/A	HSS 6x3x1/4	1/2"x10"x0'-6 1/2"	TYP. POST BASE (S3)	1/4"x3"x0'-6"	B.3, 3
B.8, 3	N/A	N/A	N/A	HSS 6x3x1/4	1/2"x10"x0'-6 1/2"	TYP. POST BASE (S3)	1/4"x3"x0'-6"	B.8, 3
C1	16"x24" PIER AND 12" WALL FOOTING EXTENSION PER S1.0-E	N/A	VARIES	HSS 4x4x1/4	1"x12"x1'-0"	TYP. HSS 4x4	1/4"x4"x0'-4"	C1
C2				HSS 4x4x1/4	1"x12"x1'-0"	TYP. HSS 4x4	1/4"x4"x0'-4"	C2

NOTE: A MINIMUM ALLOWABLE SOIL BEARING PRESSURE OF 2500 PSF HAS BEEN ASSUMED IN THE SIZING OF FOOTINGS. IF SITE CONDITIONS INDICATE OTHERWISE, THE ARCHITECT OR ENGINEER SHALL BE NOTIFIED IMMEDIATELY.

# METAL DECK GENERAL NOTES

- SEE DRAWINGS FOR METAL DECK TYPE AND GAUGE.
- TYPE B ROOF DECK SHALL BE PAINTED. UNLESS NOTED OTHERWISE, THE ROOF DECK SHALL BE FASTENED TO STEEL FRAMING WITH 5/8" PUDDLE WELDS AT THE FOLLOWING SPACING:
  - AT FRAMING PERPENDICULAR TO DECK FLUTES: 12" ON CENTER MAXIMUM AND AT EACH EDGE FLUTE OF EACH DECK UNIT.
  - AT FRAMING PARALLEL TO DECK FLUTES: 12" ON CENTER MAXIMUM
- TYPE B ROOF DECK SHALL BE PAINTED. UNLESS NOTED OTHERWISE, THE ROOF DECK SHALL BE FASTENED TO COLD-FORMED STEEL FRAMING WITH #12 SELF DRILLING SCREWS AT THE FOLLOWING SPACING:
  - AT FRAMING PERPENDICULAR TO DECK FLUTES: 12" ON CENTER MAXIMUM AND AT EACH EDGE FLUTE OF EACH DECK UNIT.
  - AT FRAMING PARALLEL TO DECK FLUTES: 12" ON CENTER MAXIMUM
- SIDE LAPS SHALL BE FASTENED BY WELDING, OR WITH #10 SELF TAPPING SCREWS AT A MAXIMUM SPACING OF 12" ON CENTER BETWEEN SUPPORTS.
- ADDITIONAL DECKING SHEET EDGE REQUIREMENTS: ONE FASTENER SHALL BE PLACED NEAR THE CORNER OF EACH SHEET OR AT OVERLAPPING CORNERS OF SHEETS. AT ENDS AND SIDES OF DECK SHEETS, WELDS/SCREWS TO STRUCTURAL MEMBERS SHALL BE 12" O.C., MAXIMUM.
- DECKING SHALL BE CONTINUOUS OVER 3 SPANS MINIMUM WHERE SUPPORTING STRUCTURE PERMITS.
- DECKING SHALL BE ERECTED IN STRICT ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
- MANUFACTURER SHALL BE A MEMBER OF THE STEEL DECK INSTITUTE. SUBMIT PRODUCT DATA, INCLUDING SPAN TABLES, FOR REVIEW.
- TOUCH UP AREAS DAMAGED IN HANDLING AND ERECTION WITH SAME PAINT USED FOR SHOP COAT.

# CONCRETE SLAB ON GRADE JOINTING GENERAL NOTES & DETAILS

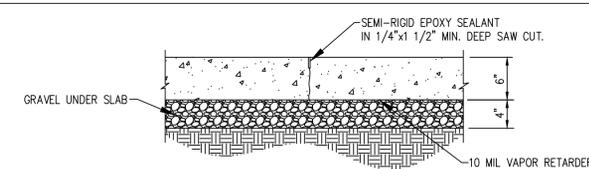


TYPICAL CONSTRUCTION JOINT (CJ) DETAIL

SCALE: 1"=1'-0"

THIS DETAIL MAY BE USED AT THE CONTRACTOR'S DISCRETION WHERE A CONSTRUCTION JOINT IN THE SLAB IS REQUIRED. ALL CONSTRUCTION JOINTS AND SAWCUT FLOOR JOINTS SHALL BE LOCATED ON THE SUBMITTAL DESCRIBED AT RIGHT.

ISOLATION JOINTS ARE REQUIRED BETWEEN THE SLAB AND ADJOINING BUILDING ELEMENTS SUCH AS WALLS & COLUMNS. ISOLATION JOINTS SHALL BE FORMED BY INSERTING THE SPECIFIED PREFORMED EXPANSION JOINT MATERIAL (P.E.J.) BETWEEN THE SLAB AND THE ADJOINING ELEMENT. WHERE REQUIRED BY THE ARCHITECT, THE TOP OF THE P.E.J. SHALL BE REMOVED AND CAULKED WITH AN ELASTOMERIC SEALANT.



SAWCUT FLOOR JOINT (FJ) DETAIL

SCALE: 1"=1'-0"

THE CONTRACTOR SHALL SUBMIT A FLOOR JOINT LAYOUT & PLACING SEQUENCE FOR REVIEW A MINIMUM OF 3 WEEKS PRIOR TO SLAB POUR. JOINTING LAYOUT AND SEQUENCE SHALL CONFORM TO ACI 302. THE SLAB MAY BE POURED MONOLITHICALLY (IN LIEU OF KEYED JOINTS) PROVIDED THAT THE JOINTS ARE CUT AS SOON AS THE SLAB CAN SUPPORT AN OPERATOR AND EQUIPMENT (BUT NO MORE THAN 4 HOURS AFTER THE POUR). SAW CUT JOINTS SHOULD BE A MIN. OF 1 1/2" DEEP FOR A 6" THICK SLAB AND SHALL BE LOCATED AT 15'-0" MAX. ON CENTER. JOINTS SHOULD BE LOCATED SUCH THAT THE SIDE RATIO OF EACH AREA DOES NOT EXCEED 3:2. HOWEVER, A RATIO OF 1:1 IS PREFERRED. PROVIDE EITHER A SAW CUT JOINT OR 2-#4'S x 6'-0" AT ALL INTERIOR CORNERS.



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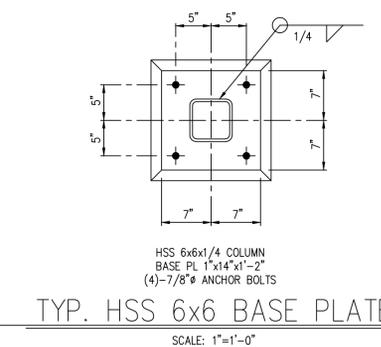
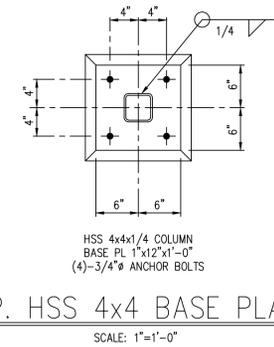
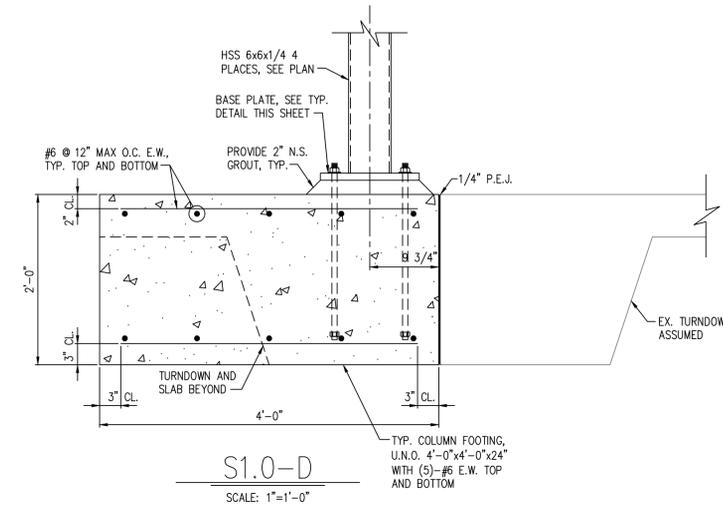
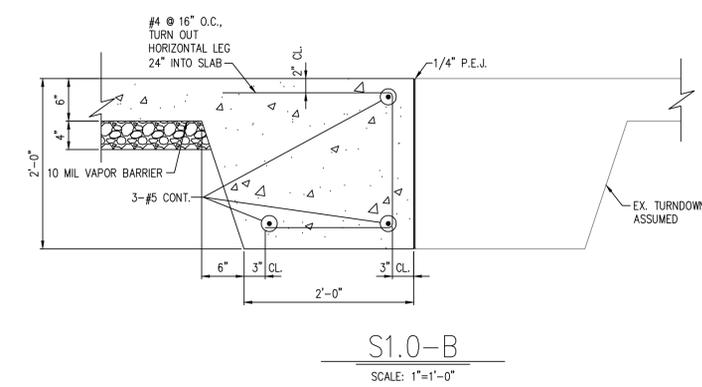
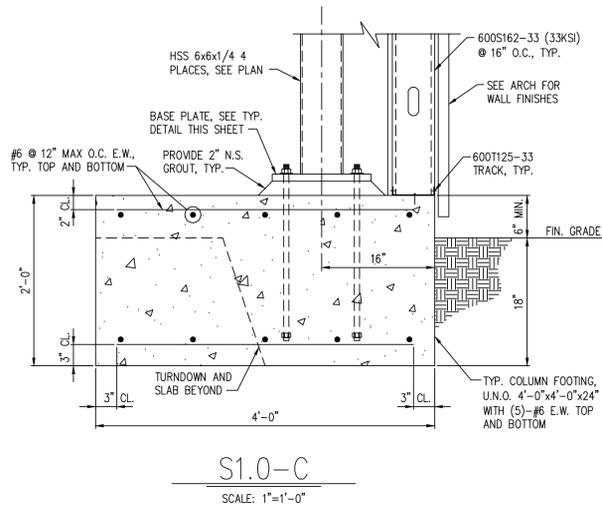
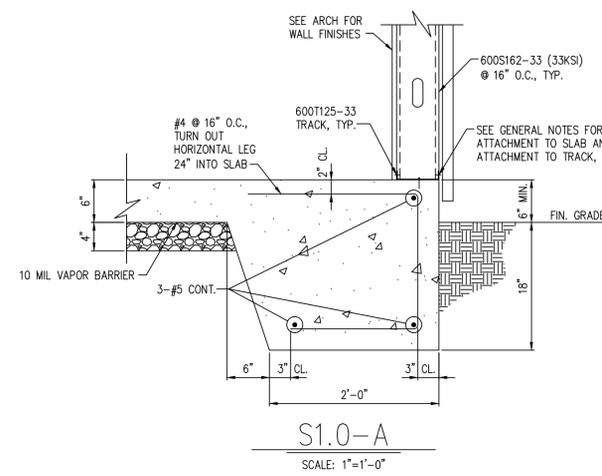
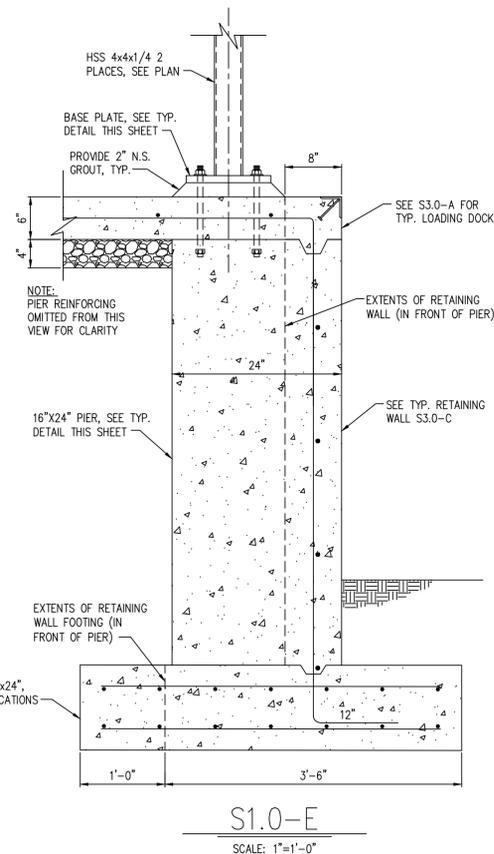
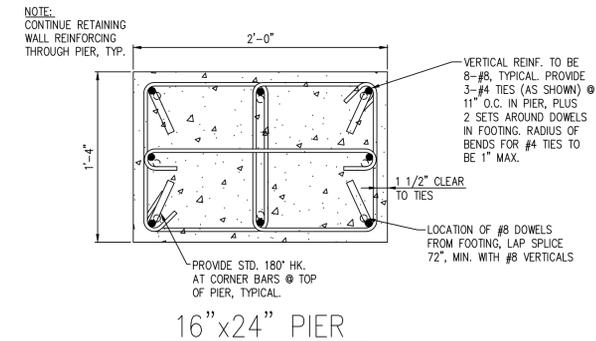
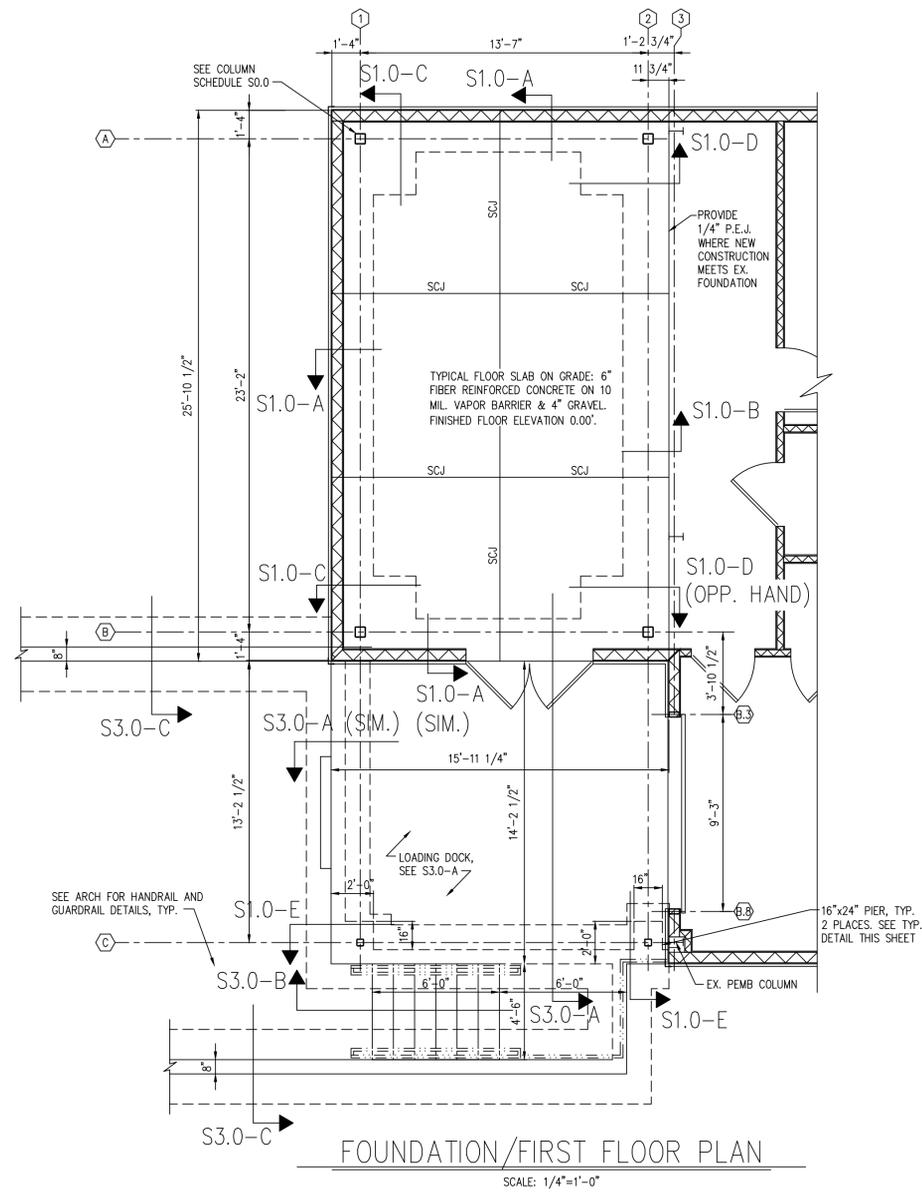
MBC RADIO SHOP  
4520 KNIGHT ROAD, MACON, GEORGIA

Drawing Issue Schedule	
5-14-2025	Progress
10-24-2025	Permit Set

Project No: 2024-29

# General Notes

# S0.0



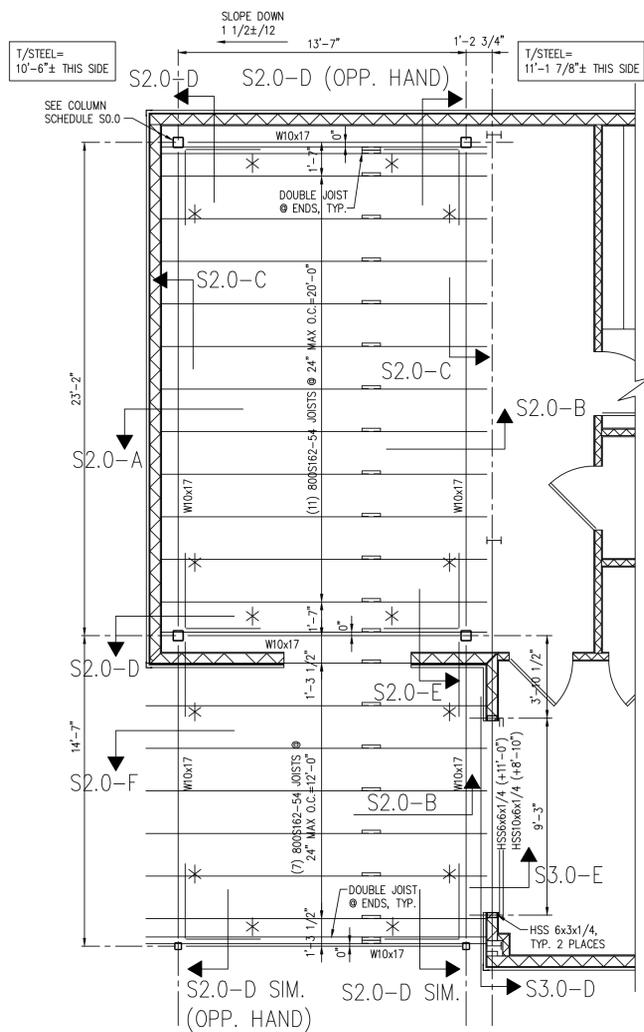
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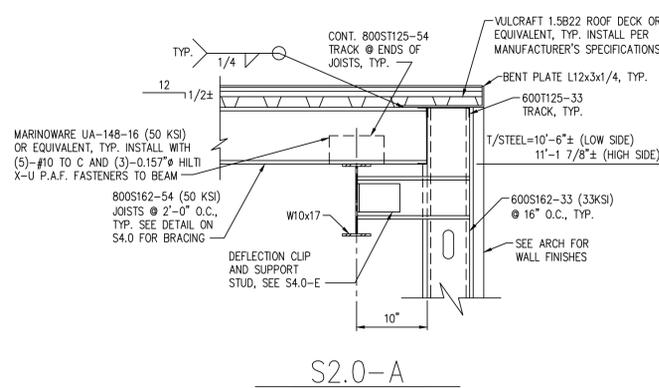
Foundation Plan  
**S1.0**



**ROOF FRAMING PLAN**

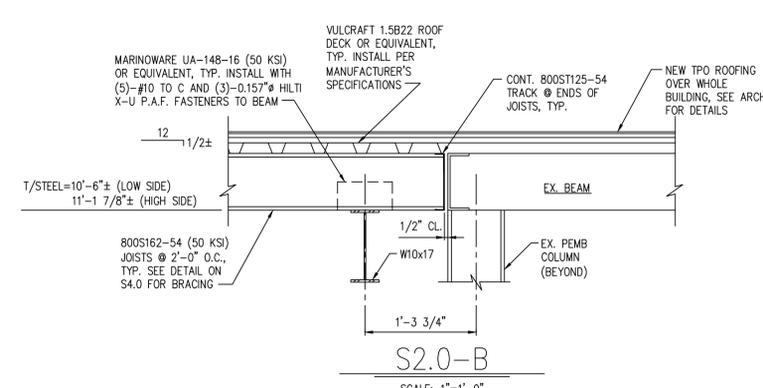
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\* = L4x4x1/4 KNEE BRACE, SEE TYP. DETAIL THIS SHEET.



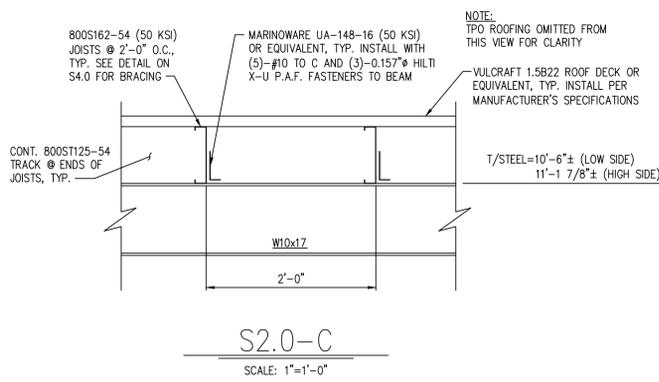
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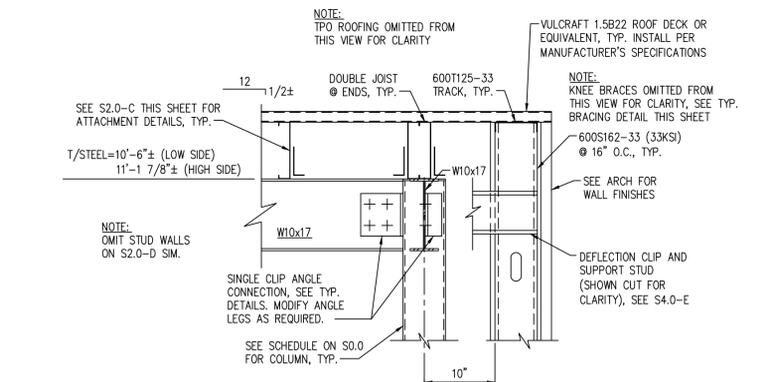
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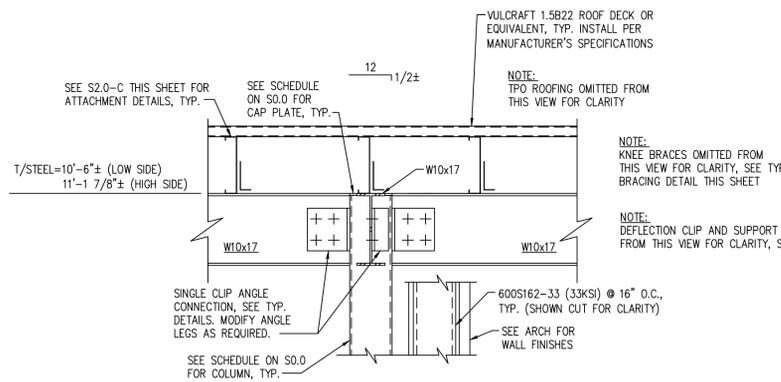
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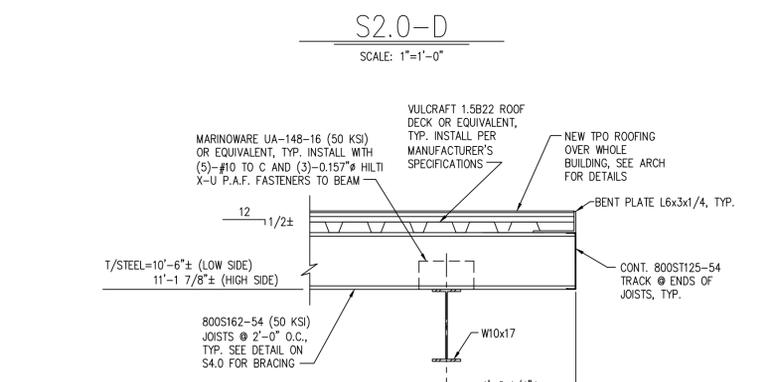
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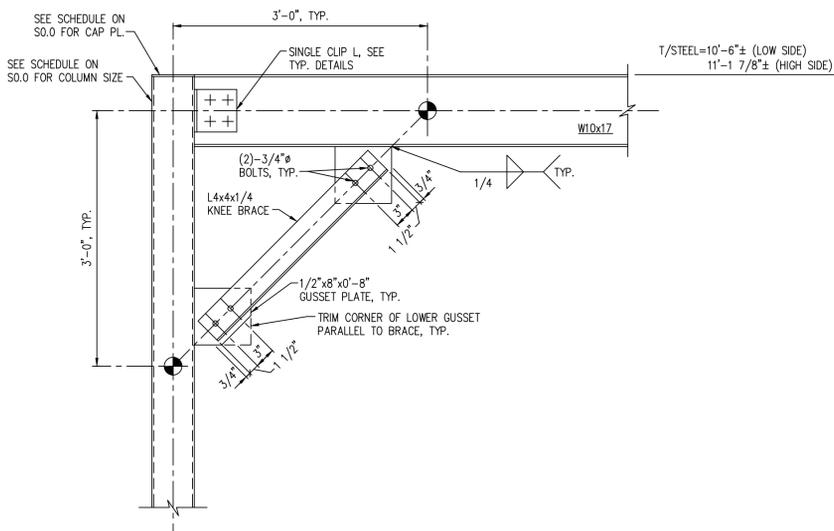
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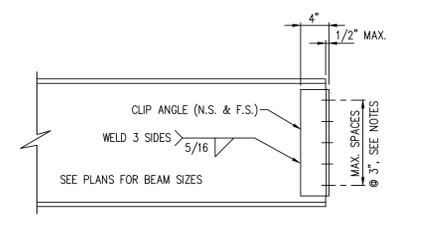
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**TYP. BRACING DETAIL**

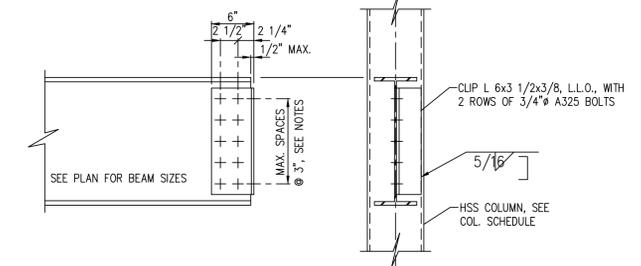
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**TYPICAL CLIP ANGLE CONNECTION**

NO SCALE

- NOTES:
- CLIP ANGLES (N.S. & F.S.) TO BE SHOP WELDED. LENGTH OF CLIP ANGLES AND NUMBER OF BOLTS SHALL BE MAXIMUM FOR BEAM OF GIVEN DEPTH. CLIP ANGLES SHALL BE L4x3 1/2x3/8 (S.L.O.), WITH LEG MODIFICATIONS AS REQUIRED FOR DETAILING DIMENSIONS AND CLEARANCES. HOLES SHALL BE 13/16" FOR 3/4", A325 BOLTS WITH THREADS EXCLUDED FROM THE SHEAR PLANES.
  - USE AT BEAM TO BEAM CONNECTIONS, UNLESS SHOWN OR NOTED OTHERWISE. SEE SINGLE CLIP L CONNECTION DETAIL FOR CONNECTIONS TO HSS COLUMNS.
  - WHERE BEAM WEB THICKNESS IS 1/4" OR LESS, CLIP ANGLES MAY BE 5/16" THICK WITH 1/4" FILLET WELDS ON 3 SIDES.
  - WHERE BEAM WEB/FLANGE MUST BE COPED FOR CLEARANCES, PROVIDE 1/2" MAXIMUM CLEARANCE. PROVIDE 1/2" RADIUS ON ALL COPES. RE-ENTRANT CUTS SHALL BE CAUSE FOR REJECTION.
  - CLIP ANGLE MAY BE WELDED TO BEAMS IN LIEU OF BOLTING.



**TYPICAL SINGLE CLIP ANGLE CONNECTION**

NO SCALE

- NOTES:
- CLIP ANGLES TO BE SHOP WELDED TO COLUMN. LENGTH OF CLIP ANGLES AND NUMBER OF BOLTS SHALL BE MAXIMUM FOR BEAM OF GIVEN DEPTH. CLIP ANGLES SHALL BE L 6x3 1/2x3/8 (L.L.O.), WITH LEG MODIFICATIONS AS REQUIRED FOR DETAILING DIMENSIONS AND CLEARANCES. HOLES SHALL BE 13/16" FOR 3/4", A325 BOLTS WITH THREADS EXCLUDED FROM THE SHEAR PLANES.
  - USE AT BEAM TO HSS COLUMN CONNECTIONS, UNLESS SHOWN OR NOTED OTHERWISE.
  - WHERE BEAM WEB THICKNESS IS 1/4" OR LESS, CLIP ANGLES MAY BE 5/16" THICK WITH 1/4" FILLET WELDS ON 3 SIDES.
  - WHERE BEAM WEB/FLANGE MUST BE COPED FOR CLEARANCES, PROVIDE 1/2" MAXIMUM CLEARANCE. PROVIDE 1/2" RADIUS ON ALL COPES. RE-ENTRANT CUTS SHALL BE CAUSE FOR REJECTION.



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**MBC RADIO SHOP**  
4520 KNIGHT ROAD, MACON, GEORGIA

Drawing Issue Schedule	
5-14-2025	Progress
10-24-2025	Permit Set

Project No: 2024-29

**Roof Framing Plan**  
**S2.0**







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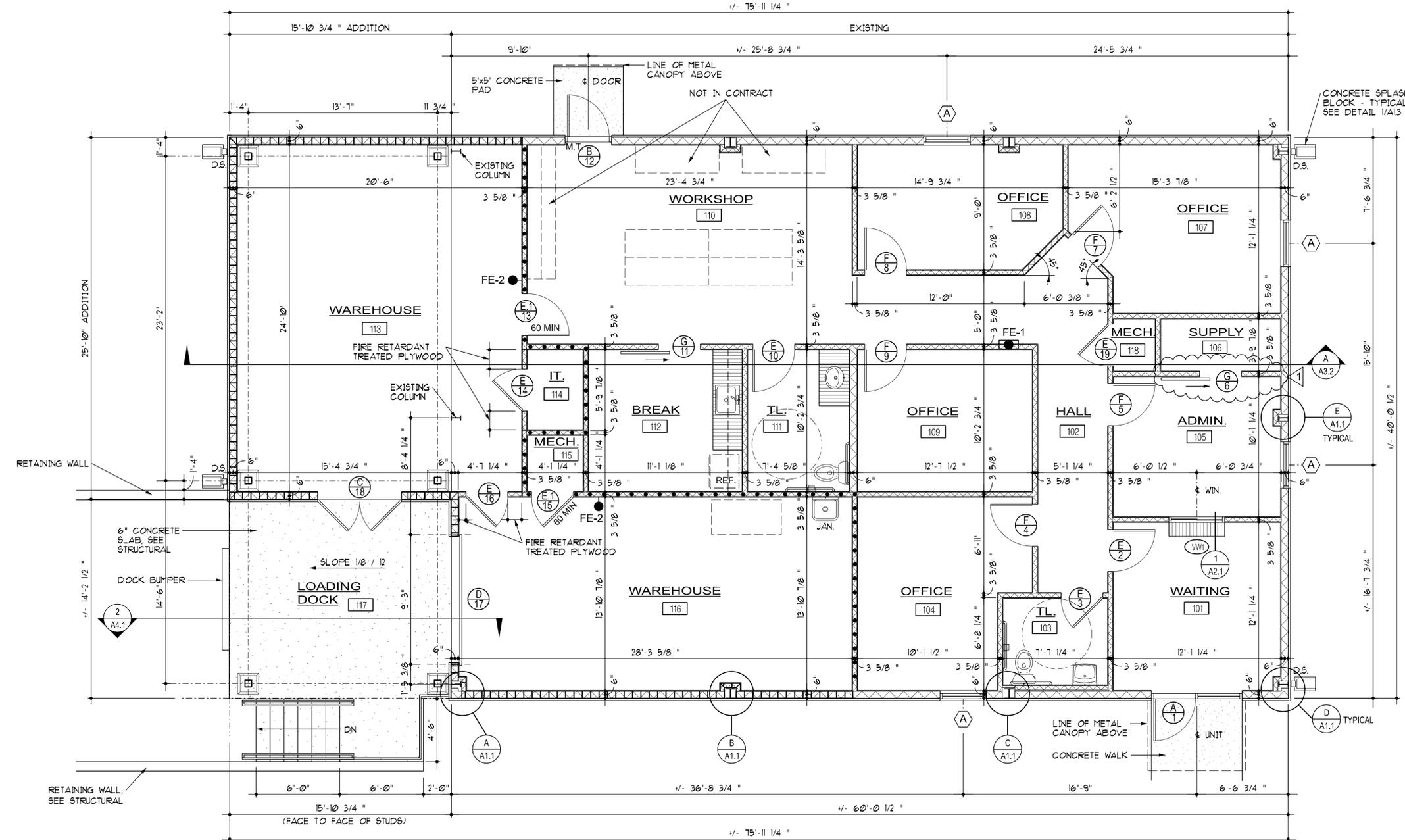
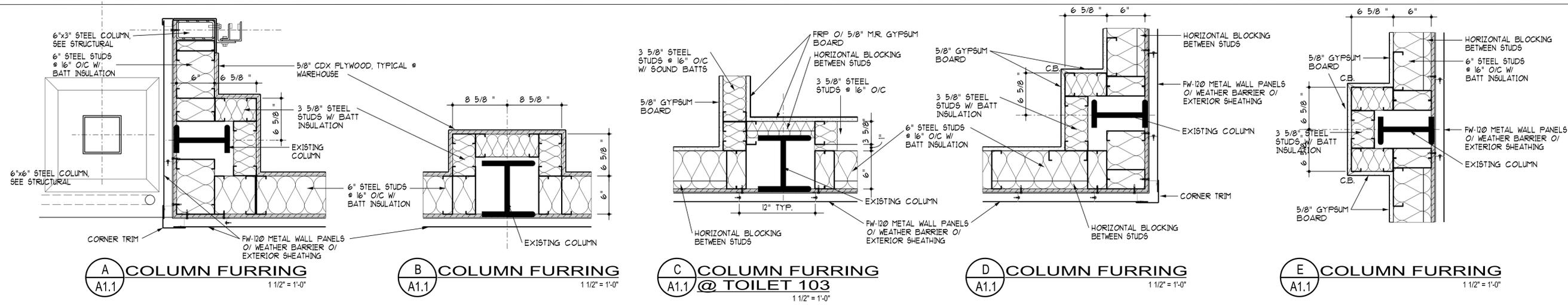


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**MBC RADIO SHOP**  
4520 KNIGHT ROAD, MACON, GEORGIA

Drawing Issue Schedule	
10-24-2025	Permit Set
11-17-2025	Revision #1
Project No: 2024-29	

**Floor Plan & Details**  
**A1.1-R.1**



- WALL LEGEND**
- EXTERIOR WALL - 5/8" GYPSUM WALL BOARD / 6" STEEL STUDS @ 16" O/C W/ BATT INSULATION / 1/2" EXTERIOR SHEATHING / WEATHER BARRIER / METAL WALL PANELS (FW-120)
  - EXTERIOR WALL - 5/8" CDX PLYWOOD (INTERIOR) / 6" STEEL STUDS @ 16" O/C W/ BATT INSULATION / 1/2" EXTERIOR SHEATHING / WEATHER BARRIER / METAL WALL PANELS (FW-120)
  - INTERIOR WALL - 5/8" GYPSUM WALL BOARD / STEEL STUDS @ 16" O/C (REFER TO PLAN FOR SIZE) W/ SOUND BATT, 5/8" GYPSUM WALL BOARD
  - 1-HR WALL UL V340 - 5/8" TYPE "X" GYPSUM WALL BOARD, STEEL STUDS @ 16" O/C W/ SOUND BATT, 5/8" FIRE RETARDANT TREATED CDX PLYWOOD ON WAREHOUSE SIDE, RUN TO ROOF DECK & SEAL.

- LEGEND**
- DOOR TYPE
  - DOOR NUMBER
  - WINDOW TYPE
  - VIEW WINDOW TYPE
  - FIRE EXTINGUISHER - 4A-80BC (SEMI-RECESSED)
  - FIRE EXTINGUISHER - 6A-120BC (WALL BRACKET)
  - MILLWORK IN CONTRACT



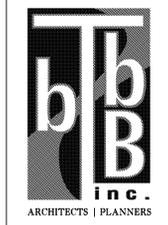
**FLOOR PLAN**  
1/4" = 1'-0"

EXISTING - 2,417 S.F.  
ADDITION - 415 S.F.  
LOADING DOCK - 225 x 0.5 = 112.5 S.F.  
TOTAL 2,944.5 S.F.

PROJECT: 2024-29 MBC Radio Shop Working Drawings 10/24/25 A1.1 Floor Plan.dgn  
 11/17/2025







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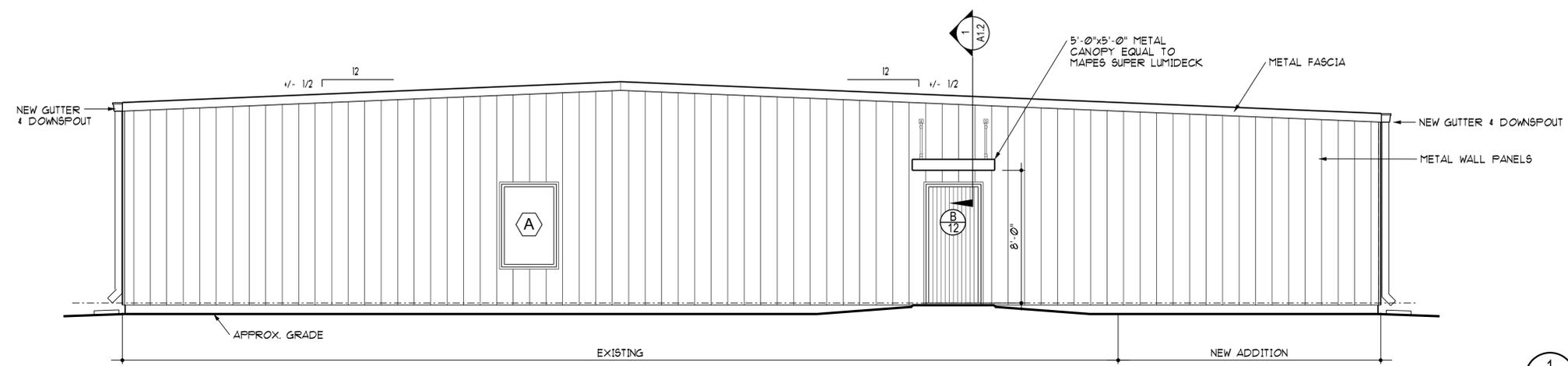
**MBC RADIO SHOP**  
4520 KNIGHT ROAD, MACON, GEORGIA

Drawing Issue Schedule  
10-24-2025 Permit Set

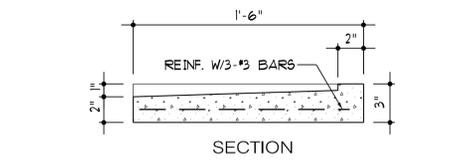
Project No: 2024-29

Exterior Elevations

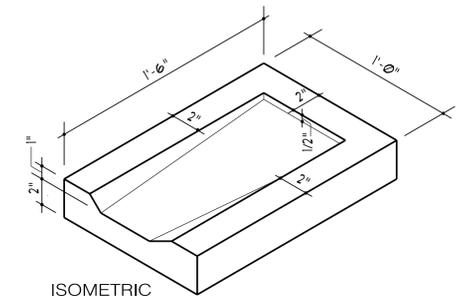
**A3.1**



**REAR ELEVATION**  
1/4" = 1'-0"

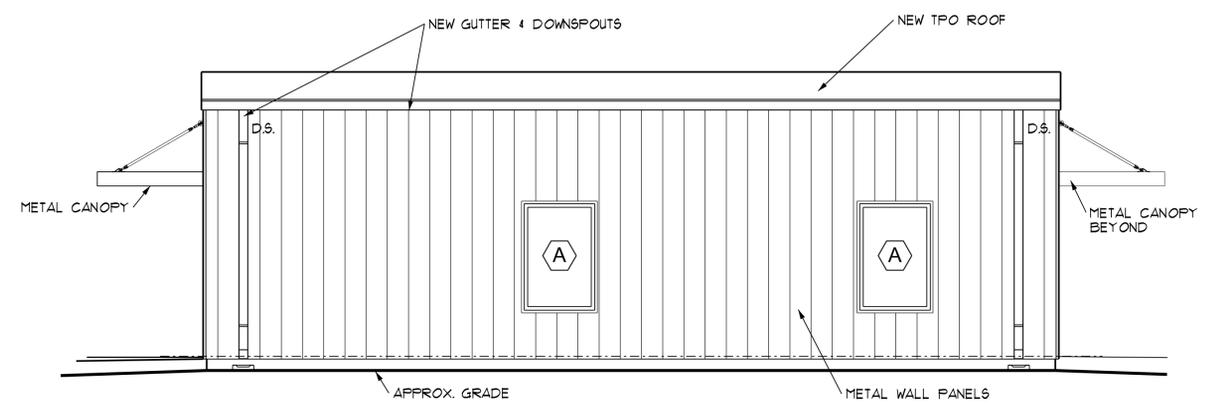


SECTION

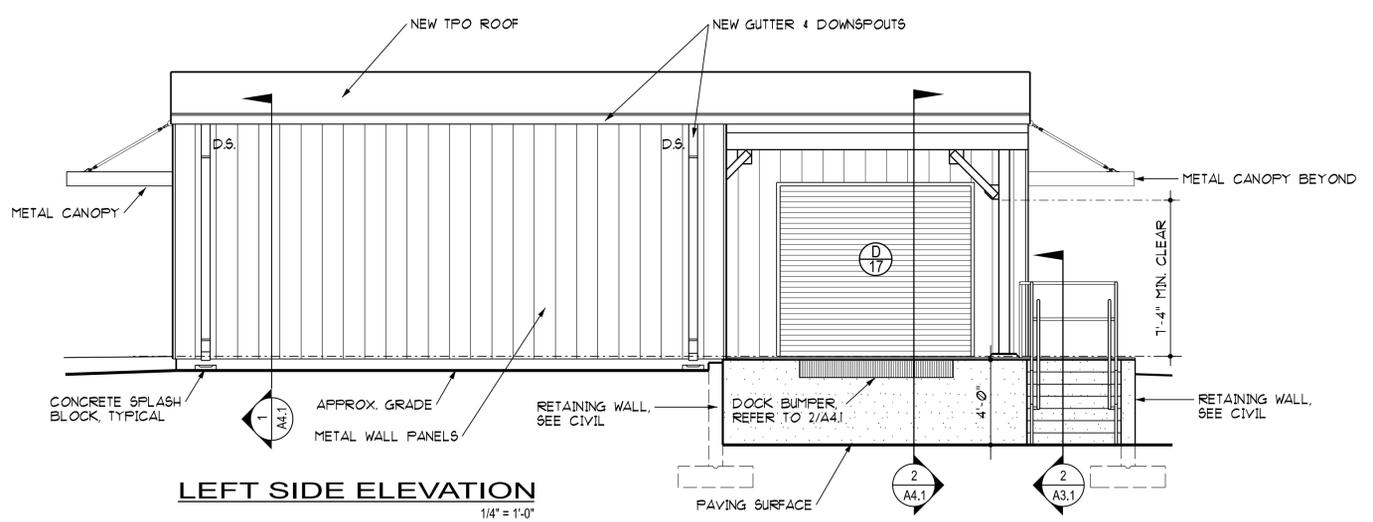


ISOMETRIC

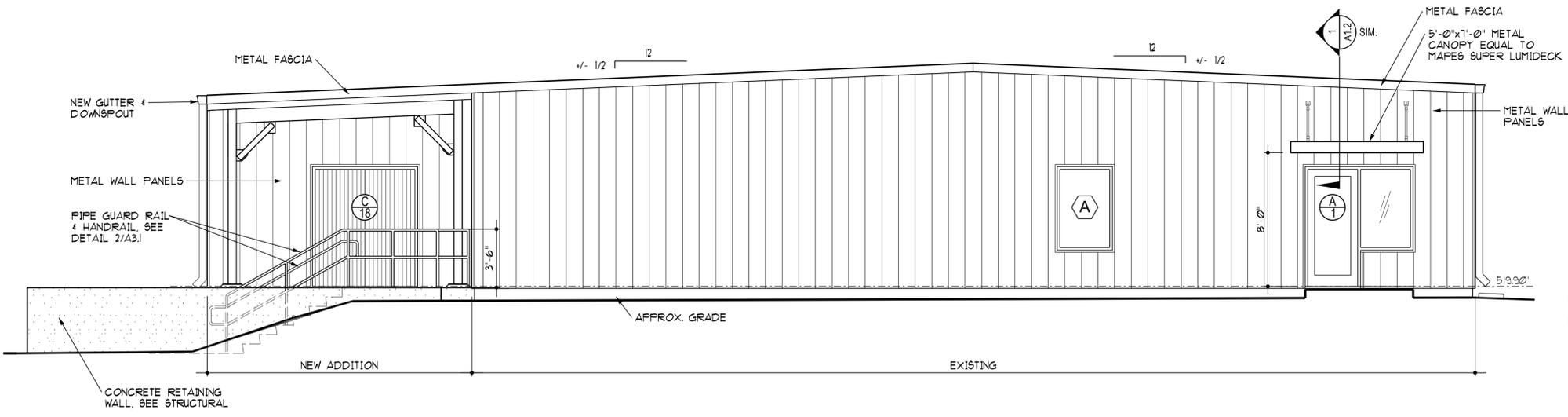
**1 CONCRETE SPLASH BLOCK**  
A3.1 NO SCALE



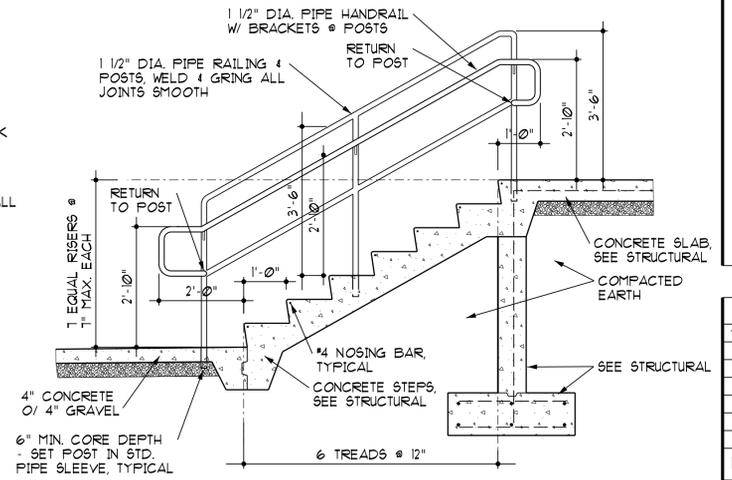
**RIGHT SIDE ELEVATION**  
1/4" = 1'-0"



**LEFT SIDE ELEVATION**  
1/4" = 1'-0"



**FRONT ELEVATION**  
1/4" = 1'-0"



**2 SECTION @ CONCRETE STEPS**  
A3.1 1/2" = 1'-0"



F:\PROJECTS\2024-29 MBC Radio Shop\Working Drawings\2024-29\_A3.1\Exterior Elevations.dgn 02/27/2025









**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 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 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.

Below ground sanitary drain and vent piping shall be solid-wall ASTM D2665 schedule 40 PVC. Install underground, PVC plastic drainage piping according to ASTM D2321. Above ground sanitary drain, roof drainage, overflow roof drainage, and vent piping shall be cellular-core ASTM F891 schedule 40 PVC. Install aboveground PVC piping according to ASTM D 2665. All aboveground piping shall be adequately supported. Sanitary drain and vent piping shall have 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. Provide PVC IPX 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 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 ASA/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.

Insulation for piping downstream of apartment shut-off valve:

Insulate domestic Cold water piping in unconditioned spaces such as exterior corridors, attic, basements, etc with 3/4" flexible elastomeric. Insulate domestic Hot water piping that is 3/4" and larger, in unconditioned spaces, piping located under floor slab, or buried piping with 3/4" flexible elastomeric. Flexible Elastomeric Insulation shall be closed-cell, sponge- or expanded-rubber materials. Comply with ASTM C 534, Type I for tubular materials. Insulation shall have an estimated rating by manufacturer of R-3. Fit insulation tightly around hot water pipe, face seam down and secure insulation every 2 feet with wire, tape or clamp. Install insulation on all piping elbows to adequately insulate 90-degree bend.

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-psi 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.

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.

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.

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. Standards: 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 satisfactory 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 furring 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.

Extend all plumbing vents above roof to parapet height.

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 unconnected 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 sags 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 roof (VTR) or wall (SWT) 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.

Provide Watts #F90 dual check valve with intermediate atmospheric vent at all ice maker machines.

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.)

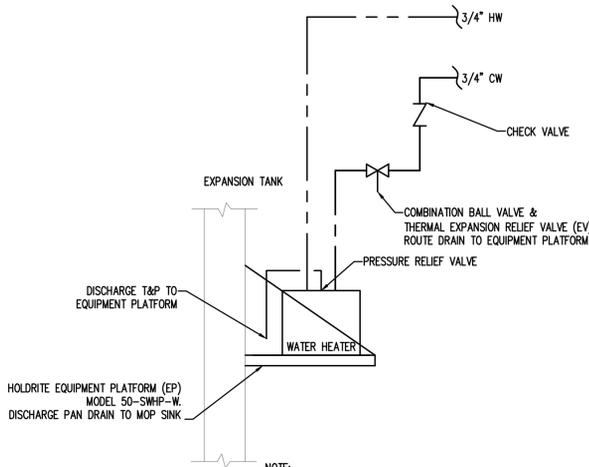
- China Fixtures: American Standard, Kohler, Toto, Zurn, Sloan  
 Faucets: Delta, T&S Brass, Chicago Faucets, Zurn, Kohler, Grahe, Moen, Speakman, Symmons  
 Supplies & Traps: Engineered Brass CO, McGuire, Charlotte Pipe, Brasscraft, IPS, Watts, Zurn  
 Floor Drains & Cleanouts: Zurn, Jay R Smith, Proset, Watts, Mifab, Wade, Josam, Sioux Chief, Oatey  
 Water Heaters: A.O. Smith, Lochinar, Bradford White, State, Rheem  
 Toilet Seats: Bemis, Centoco, Church Seats, Osonite, Beneke, Zurn, Mainline  
 Stainless Steel Sinks: Dayton, Elkoy, Just, Kohler, Moen, Sterling, Franke  
 ADA Protective Shielding Pipe Covers: Engineered Brass, McGuire, Plumberex, TRUEBRO, Zurn, Oatey  
 Fixture Supports: MIFAB, Jay R. Smith, Wade, Watts, Zurn  
 Wall Hydrants/ Hose Bibbs: MIFAB, Jay R. Smith, Wade, Watts, Woodford, Zurn  
 Water Hammer Arresters: AMTROL, Josam, MIFAB, PPP, Sioux Chief, Joy R. Smith, Wade, Watts, Zurn  
 Outlet Boxes: Acorn, IPS, Oatey  
 CPVC Valves: American, NIBCO, Spears  
 Mop Sinks: Stern Williams, Acorn, Fiat

FIXTURE AND EQUIPMENT SCHEDULE									
#	FIXTURE TYPE	WASTE		WATER SUPPLY		WATER FIX. CONN.		MODEL NUMBER	
		BELOW FLOOR	FIXTURE CONN.	COLD	HOT	COLD	HOT		
WC	TANK TYPE ADA WATER CLOSET	3"	3"	1/2"	1/2"	1/2"	1/2"	AMERICAN STANDARD 215AA.104 WATER CLOSET. CENTOCO 500STSCSS SEAT	
LAV1	ADA DROP-IN LAVATORY	2"	1-1/4"	1/2"	1/2"	1/2"	1/2"	AMERICAN STANDARD 0475.020 LAVATORY. MOEN 8413F05 FAUCET.	
LAV2	ADA WALL-HUNG LAVATORY	2"	1-1/4"	1/2"	1/2"	1/2"	1/2"	AMERICAN STANDARD 0355.012 LAVATORY. MOEN 8430F05 FAUCET.	
MOP	MOLDED-STONE MOP SINK	3"	3"	1/2"	1/2"	1/2"	1/2"	FIAT MSB 2424, 830-AA SERVICE FAUCET WITH VACUUM BREAKER, 832-AA HOSE AND HOSE BRACKET, QDC-SXH DRAIN CONNECTOR,SILICON SEALANT, STAINLESS STEEL WALL GUARD & VINYL BUMP GAURD	
OB	ICE MAKER BOX WITH WATER HAMMER ARRESTOR			1/2"	1/2"	1/2"	1/2"	WATER TITE AB9701HA.	
SNK	ADA ONE COMPARTMENT DROP-IN BREAK ROOM SINK 1.5 GPM	2"	1-1/2"	1/2"	1/2"	1/2"	1/2"	ELKAY GE12522 SINK. MOEN 7594 FAUCET.	
HB	HOSE BIBB			3/4"	3/4"			WOODFORD 27.	
EP	EQUIPMENT PLATFORM		1"					HOLDRITE 50-SWHP-W.	
FD	FLOOR DRAIN WITH WATERLESS TRAP PRIMER	2"	2"					WATTS FD-190-PR-60 FLOOR DRAIN. RECTORSEAL "SURESEAL PLUS" WATERLESS TRAP PRIMER.	
GCO	GRADE CLEANOUT	SEE DWGS	SEE DWGS					WATTS CO-200-RX-4-60.	
FCO	FLOOR CLEANOUT	SEE DWGS	SEE DWGS					WATTS CO12	
SWT	SIDE WALL VENT TERMINAL	3"	3"					WATTS MS-8000.	
HD	HUB DRAIN WITH WATERLESS TRAP PRIMER	2"	2"					PROSET TG24HD.	

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	ENL8-40	RESIDENTIAL LOWBOY ELECTRIC TANK TYPE	21	38	4.5	1	208	
EV	WATTS	LFRWMI	COMBINATION BALL VALVE AND RELIEF VALVE						

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



WATER HEATER (WH1) PIPING SCHEMATIC  
 SCALE: N.T.S.



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**MBC RADIO SHOP**  
 4520 KNIGHT ROAD, MACON, GEORGIA

Drawing Issue Schedule	
10-24-2025	Permit Set
Project No:	2024-29

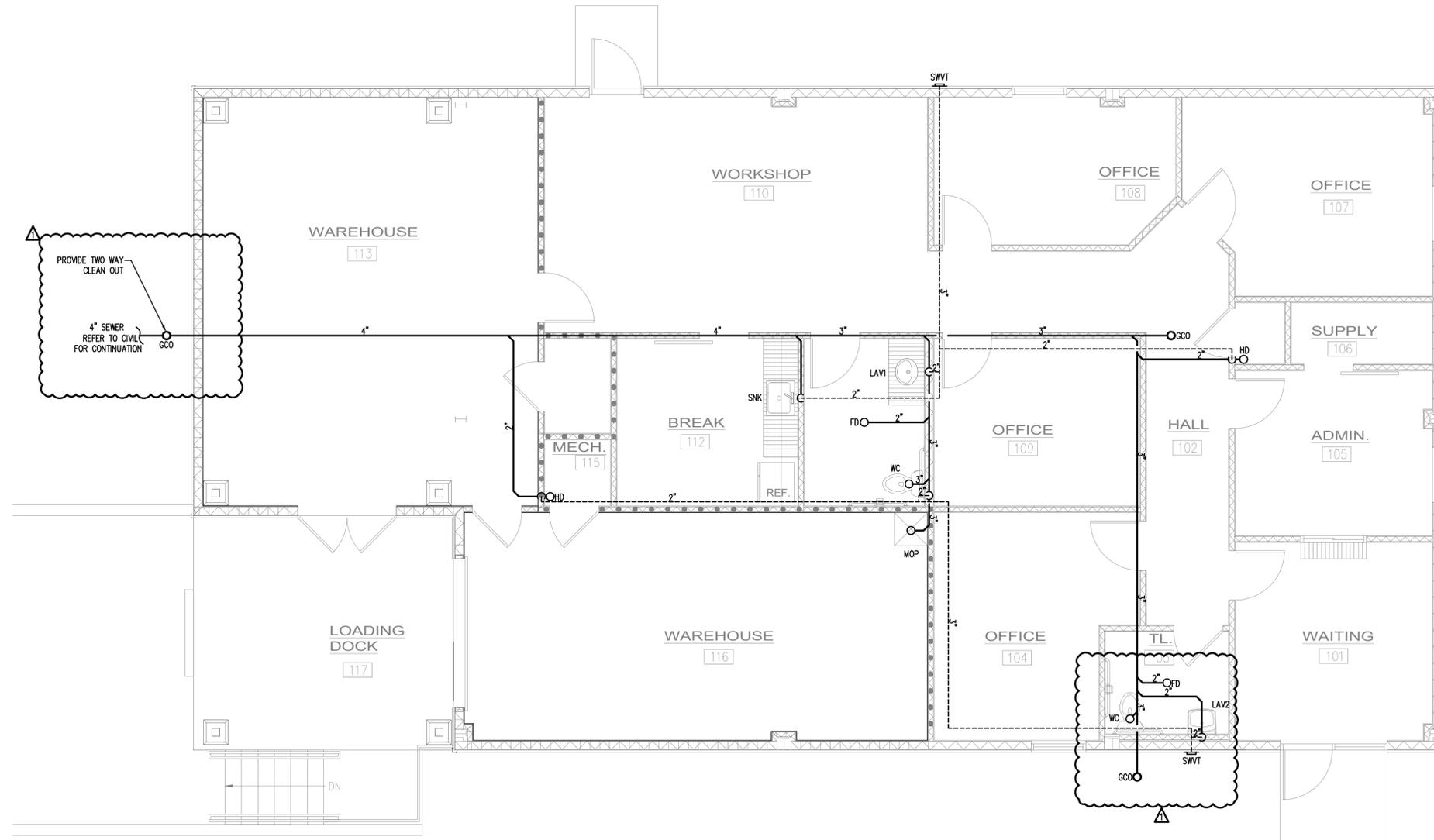
**PLUMBING SPECIFICATIONS**  
P0.1



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

**MBC RADIO SHOP**  
 4520 KNIGHT ROAD, MACON, GEORGIA

Drawing Issue Schedule

10-24-2025	Permit Set
11-17-2025	Revision # 1

Project No: 2024-29

PLUMBING  
 PLAN - SEWER

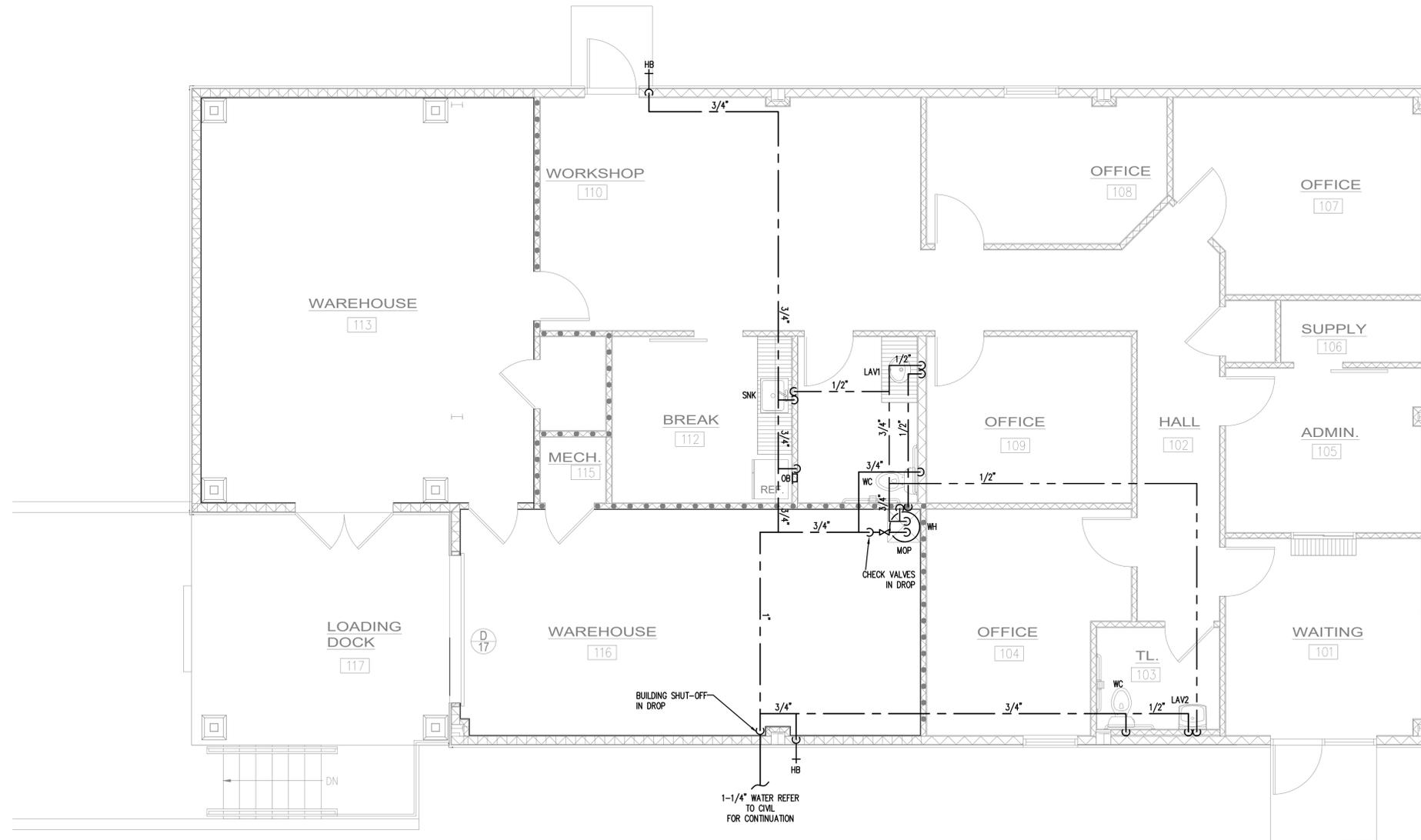
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**1** PLUMBING PLAN - WATER  
 SCALE: 1/4"=1'-0"

**MBC RADIO SHOP**  
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Drawing Issue Schedule	
10-24-2025	Permit Set

Project No: 2024-29

**PLUMBING PLAN - WATER**

**P1.1**



**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 SPECIFIED 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: FLEX MASTER, ATCO UPC436(R-6.0); ATCO UPC431 (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 DEPTH AT DUCT CONTACT POINTS. FLEXIBLE CONNECTORS SHALL NOT PASS THROUGH ANY WALL, FLOOR OR CEILING WEATHER RATED OR NOT. PROVIDE 36-ONCHES OF METAL DUCT AT PENETRATION OF DRAFT STOPS, FIRE WALLS AND SMOKE WALLS.
12. 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. REFRIGERANT PIPING SHALL CONFORM TO MANUFACTURER'S RECOMMENDATIONS AND INSTALLATION INSTRUCTIONS. REFRIGERANT PIPING SHALL BE ASTM B280 TYPE ACR OR ASTM B88 TYPE L DRAIN COPPER TUBING WITH WROUGHT COPPER FITTINGS. INSULATE Suction LINE WITH 1/2" THICK FLEXIBLE FOAMED PLASTIC CELLULAR FOAM (ARMAFLEX OR EQUIVALENT). ALL PIPING SHALL BE ADEQUATELY SUPPORTED. INSULATION INSTALLED OUTDOORS SHALL BE PAINTED WITH TWO COATS OF ARMACELL WB COATING OR EQUIVALENT.
15. THERMOSTATS: PROVIDE 24 VOLT, PROGRAMMABLE 24-HOUR, 7-DAY THERMOSTAT TO CONTROL HEATING STAGES IN SEQUENCE WITH DELAY BETWEEN STAGES AND SUPPLY FAN TO MAINTAIN TEMPERATURE SETTING. FOR HEAT PUMPS INCLUDE SYSTEM SELECTION SWITCH HEAT-OFF-COOL, AND FAN CONTROL SWITCH (AUTO-ON), EMERGENCY HEAT SWITCH (AUXILIARY/EMERGENCY HEAT INDICATOR LIGHTS).
16. PROVIDE FIRE AND SMOKE RATED FLEXIBLE CONNECTIONS BETWEEN FANS AND DUCTS. MATERIAL SHALL COMPLY WITH NFPA 90A REQUIREMENTS FOR MATERIAL IN SUPPLY AIR STREAM.
17. 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.
18. INDOOR DUCT INSULATION: FOIL-FACED FIBERGLASS, OWENS CORNING TYPE 75 OR EQUAL, 1/2" THICK (R-8), 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 WRAPS 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.
19. ALL SUPPLY, RETURN AND OUTSIDE AIR DUCTS SHALL BE INSULATED. 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.
20. 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.
21. MAKE ALL DUCT ELBOWS RIGHT ANGLE TYPE WITH SINGLE -THICKNESS TURNING VANES OR CONSTRUCT WITH CENTERLINE RADIUS 1-1/2 TIMES THE DUCT WIDTH.
22. DUCT SIZES SHOWN ON PLANS ARE CLEAR, INTERIOR DIMENSIONS. DUCT SIZES SHOWN SHALL BE ENLARGE TO ALLOW FOR LINER AT LOCATIONS OF INTERIOR LINER.
23. DO NOT CUT INTO OR REDUCE THE SIZE OF ANY STRUCTURAL MEMBER WITHOUT THE PERMISSION OF THE ARCHITECT.
24. 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.
25. 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.
26. THOROUGHLY CLEAN ALL COMPONENTS AND REMOVE ALL DIRT, SCALE, OIL, AND OTHER FOREIGN SUBSTANCES. PROVIDE CLEAN AIR FILTERS FOR ALL EQUIPMENT.
27. PERFORM ALL TESTS NECESSARY TO DEMONSTRATE THE INTEGRITY OF THE COMPLETE INSTALLATION TO THE APPROVAL OF THE ENGINEER AND ALL OTHER AUTHORITIES HAVING JURISDICTION. MAKE ALL ADJUSTMENTS NECESSARY AND BALANCE THE COMPLETED SYSTEM IN ACCORDANCE WITH THE DATA SHOWN. BALANCE THE SYSTEMS IN ACCORDANCE WITH NEBB OR AABC STANDARDS. ACCEPTABLE TOLERANCES SHALL BE MINUS TEN PERCENT TO PLUS FIVE PERCENT OF ALL MEASUREMENTS. BALANCING SHALL BE DONE BY AN INDEPENDENT LICENSED (BY NEBB OR AABC) TAB CONTRACTOR. MAKE THE FOLLOWING TESTS AND SUBMIT REPORTS TO THE ARCHITECT:
  - a. AIRFLOW RATE AT EACH SUPPLY, RETURN AND EXHAUST OUTLET OR INLET.
  - b. TOTAL AIRFLOW RATE AND TOTAL STATIC PRESSURE FOR EACH SUPPLY AND EXHAUST FAN. TEST EXHAUST FANS WITH ROOM DOORS CLOSED.
  - c. MOTOR SPEED, FOR MULTIPLE SPEED FANS (E.G., HIGH, MEDIUM, LOW).
  - d. FOR DIRECT DRIVE FANS, PROVIDE SPEED SETTINGS AND ACTUAL RPM, INCLUDING ECM MOTOR DRIVEN FANS.
  - e. PROVIDE FAN AND MOTOR RPM FOR BELT DRIVEN FANS. PROVIDE SHEAVE SIZES.
  - f. OUTSIDE AIRFLOW RATE TO EACH HVAC UNIT AND SUPPLY FAN.
  - g. MOTOR CURRENT (AND COMPARE WITH NAMEPLATE DATA) AT ALL MOTORS.
  - h. ENTERING AND LEAVING AIR DRY-BULB AND WET-BULB CONDITIONS AT ALL COOLING COILS.
  - i. HEAT OUTPUT CAPACITY FOR UNIT HEATERS, HEATING DEVICES AND COILS (KW OR MBH).
  - j. MANUFACTURER, MODEL AND SERIAL NUMBER FOR EACH PIECE OF HVAC EQUIPMENT SCHEDULED ON DRAWINGS.
  - k. CALIBRATE THERMOSTATS TO BE WITHIN ONE DEGREE OF ACTUAL TEMPERATURE AT THERMOSTAT.
  - l. VERIFY THAT ALL HVAC DEVICES OPERATE AS SCHEDULED OR INDICATED (I.E., ON-OFF, 2-STAGE, VARIABLE OUTPUT (SCR HEATERS), ETC).
28. 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.
29. SUBMITTALS AND SUBMITTAL PROCEDURES:
  - a. CONTRACTOR SHALL REVIEW THE SUBMITTAL DATA AND CHECK FOR THE PURPOSE OF COMPLIANCE WITH SAFETY REQUIREMENTS, VERIFICATION OF DIMENSIONS, CONTRACT DOCUMENTS AND METHODS AND MEANS PRIOR TO SUBMITTING TO DESIGN PROFESSIONAL. CONTRACTOR SHALL INDICATE APPROVAL BY INDICATING SIGN ON THE SUBMITTAL.
  - b. TRANSMIT EACH SUBMITTAL ELECTRONICALLY IN PDF FORMAT.
  - c. SEQUENTIALLY NUMBER SUBMITTAL FILES AND TRANSMITTAL FORM. REVISE SUBMITTALS WITH ORIGINAL NUMBER AND A SEQUENTIAL ALPHABETIC SUFFIX. FILE NAMES SHALL DESCRIBE ITEM INCLUDED IN FILE.
  - d. IDENTIFY PROJECT, THE CONTRACTOR, SUBCONTRACTOR OR SUPPLIER; PERTINENT DRAWING AND DETAIL NUMBER, AND SPECIFICATION SECTION NUMBER, AS APPROPRIATE ON EACH COPY. EACH FILE SHALL INCLUDE AN INDEX OF ITEMS INCLUDED IN FILE.
  - e. APPLY THE CONTRACTOR'S STAMP, SIGNED OR INITIALED CERTIFYING THAT REVIEW, APPROVAL, VERIFICATION OF PRODUCTS REQUIRED, FIELD DIMENSIONS, ADJACENT CONSTRUCTION WORK, AND COORDINATION OF INFORMATION IS IN ACCORDANCE WITH THE REQUIREMENTS OF THE WORK AND CONTRACT DOCUMENTS.
  - f. IDENTIFY ALL ITEMS IN PROJECT SHALL BE SUBMITTED AT ONE TIME. SUBMITTAL SHALL BE DIVIDED INTO GROUPS WITH FILE SIZES NOT EXCEEDING 6 MB. IF THERE IS UNAVAILABLE DATA SUCH AS CONTROL SUBMITTAL, ETC., THESE MAY BE SUBMITTED LATER IF NOT DOING SO WOULD DELAY PROJECT PROGRESS. DATA SHALL INCLUDE CAPACITIES, COMPLETE INSTALLATION INSTRUCTIONS, DIMENSIONAL DATA AND ELECTRICAL DATA, BHP, MOTOR HP, OPERATING WEIGHTS AND LOAD DISTRIBUTION AT MOUNTING POINTS.
  - g. TRANSMIT SUBMITTALS ELECTRONICALLY TO THE DESIGN PROFESSIONAL.
  - h. SCHEDULE SUBMITTALS TO EXPEDITE THE PROJECT, AND COORDINATE SUBMISSION OF RELATED ITEMS.
  - i. FOR EACH SUBMITTAL, FOR REVIEW, ALLOW 15 DAYS EXCLUDING DELIVERY TIME TO AND FROM THE CONTRACTOR.
  - j. IDENTIFY VARIATIONS FROM CONTRACT DOCUMENTS AND PRODUCT OR SYSTEM LIMITATIONS THAT MAY BE DETRIMENTAL TO SUCCESSFUL PERFORMANCE OF THE COMPLETED WORK.
  - k. PROVIDE SPACE FOR THE CONTRACTOR AND THE ARCHITECT REVIEW STAMPS.
  - l. WHEN REVISED FOR RESUBMISSION, IDENTIFY ALL CHANGES MADE SINCE PREVIOUS SUBMISSION.
  - m. DISTRIBUTE COPIES OF REVIEWED SUBMITTALS AS APPROPRIATE. INSTRUCT PARTIES TO PROMPTLY REPORT ANY INABILITY TO COMPLY WITH REQUIREMENTS.
  - n. SUBMITTALS NOT REQUESTED WILL NOT BE RECOGNIZED OR PROCESSED.
  - o. PROVIDE FILES CONTAINING ONLY RELATED ITEMS (SUCH AS PIPING, EQUIPMENT, AIR DISTRIBUTION, ETC.)
30. INSTRUCT OWNER'S REPRESENTATIVE IN THE OPERATION OF THE SYSTEMS, USING THE OPERATION AND MAINTENANCE MANUAL AS A TEACHING AID.
31. PROVIDE AN OPERATION AND MAINTENANCE MANUAL. AS A MINIMUM, THE MANUAL SHALL CONTAIN:
  - a. A COMPLETE LIST OF ALL EQUIPMENT AND APPURTENANCES WITH EQUIPMENT DESIGNATIONS (PER DRAWINGS), MANUFACTURERS, AND CATALOG NUMBERS.
  - b. COPIES OF MANUFACTURER'S BROCHURES AND INSTRUCTIONS FOR OPERATION AND MAINTENANCE OF ALL MECHANICAL EQUIPMENT, INCLUDING REPAIR PARTS LISTS.
  - c. TYPED SYSTEM OPERATION AND MAINTENANCE INSTRUCTIONS, INCLUDING INSPECTION, LUBRICATION, AND SERVICE INSTRUCTIONS AND SCHEDULES.
  - d. LIST OF NAMES, ADDRESSES AND PHONE NUMBERS OF DISTRIBUTORS OF ALL EQUIPMENT AND APPURTENANCES.
  - e. MANUFACTURER'S WARRANTIES.
32. 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 POLYESTER. 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 HEATERS-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 TRUCK 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.
33. 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. 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: 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 WAXE. 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 2 DEGREES F AMBIENT TEMPERATURE. WERE 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.
34. PROVIDE A DUCT SMOKE DETECTOR ON THE SUPPLY DUCT OF EACH 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.
35. 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 PRESSURE RATING OF THE DEVICES 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 SUBMITTAL DATA FOR ALL ITEMS IN PROJECT SHALL BE SUBMITTED AT ONE TIME. 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 OF STEEL 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 GRID. FRAME STYLE SHALL BE COMPATIBLE WITH CEILING CONSTRUCTION. INSTALL WALL GRILLES AND REGISTERS WITH HORIZONTAL EDGES PARALLEL TO CEILING. REGISTER AND GRILLE 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.
36. 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.
37. 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 SUPPORT GALVANIZED STEEL SHAPES AND PLATES: STEEL SHAPES COMPLYING WITH ASTM A 36/A 36M.
38. 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.
39. ALL HVAC EQUIPMENT SUCH AS AH, CJ, EF, AC, HP, AND RTU SHALL HAVE VISIBLE NAMEPLATES WITH THEIR ASSOCIATED MARKS ON THEM.
40. CEILING VENTILATOR SHALL HAVE CORROSION RESISTANT GALVANIZED STEEL HOUSING WITH FOUR-POINT MOUNTING CAPABILITY. IT SHALL BE DUCTED TO A CAP ON WALL, COMMON DUCT OR ROOF USING ROUND DUCTWORK. BLOWER MOTOR 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 SHALL HAVE AN ENERGY EFFICIENT PERMANENT SPLIT CAPACITOR MOTOR.
41. VERTICAL AIR HANDLER UNIT: INDOOR FAN-COIL UNIT SHALL BE DIRECT-EXPANSION VERTICLE HEAT PUMP AIR HANDLER WITH ELECTRIC SWITCH HEAT MOUNTED ON PLENUM WITH AUXILIARY DRIP PAN AND CONDENSATE DRAIN. PROVIDE FLOAT SWITCH IN DRIP PAN TO SHUT DOWN UNIT IF PAN BEGINS TO FILL. UNIT SHALL BE COMPLETE WITH COOLING COIL, FAN, FAN MOTOR, PIPING CONNECTORS, ELECTRICAL CONTROLS, MICROPROCESSOR CONTROL SYSTEM, AND INTEGRAL TEMPERATURE SENSING. CABINET SHALL BE FULLY INSULATED FOR IMPROVED THERMAL AND ACOUSTIC PERFORMANCE. CONDENSATE PAN SHALL HAVE INTERNAL TRAP AND AUXILIARY DRIP PAN UNDER COIL HEADER. PROVIDE CONDENSATE TRAP RECOMMENDED BY MANUFACTURER. FAN FILTERS SHALL BE 1 INCH THICK GLASS FIBER, DISPOSABLE TYPE ARRANGED FOR EASY REPLACEMENT. PROVIDE NUMBER OF STAGES AS SCHEDULED. PROVIDE CONDENSATE OVERFLOW SWITCH (RECTORSEAL SAFE-T-SWITCH MODEL S51 OR EQUIVALENT) WIRED TO SHUT UNIT DOWN IN CASE OF CONDENSATE OVERFLOW.
42. AIR SOURCE HEAT PUMPS (HP-1, 2, 3): OUTDOOR-MOUNTED, AIR-COOLED SPLIT SYSTEM OUTDOOR SECTION SUITABLE FOR ROOFTOP INSTALLATION, CONSISTING OF A HERMETIC COMPRESSOR, AN AIR-COOLED COIL, PROPELLER-TYPE BLOW-THRU OUTDOOR FANS, ACCUMULATOR, FULL REFRIGERANT CHARGE, AND CONTROL BOX. UNIT SHALL FUNCTION AS THE OUTDOOR COMPONENT OF AN AIR-TO-AIR COOLING SYSTEM AND USED IN A REFRIGERATION CIRCUIT MATED TO THE INDOOR UNIT. UNIT CONSTRUCTION SHALL COMPLY WITH ANSIA/SHRAE 15, LATEST REVISION, THE NEC, AND UL STANDARDS. PROVIDE RAIL SUPPORT SYSTEM COMPATIBLE WITH ROOFING SYSTEM. REFER TO SCHEDULE ON DRAWINGS FOR ADDITIONAL SPECIFICATIONS.
43. ACCEPTABLE MANUFACTURERS ARE:
 

AIR HANDLERS & HEAT PUMPS, PACKAGED UNITS: CARRIER, TRANE, YORK, LENNIX

SMALL SPLIT UNITS: MITSUBISHI, DAIKIN, HITACHI, TOSHIBA

GRILLES, REGISTERS & DIFFUSERS: TITUS, NAILOR, PRICE, TUTTLE & BAILEY, KRUGER, METAIRIE (COLOR SELECTION SUBMITTED TO ARCHITECT)

FANS: TWIN-CITY, COOK, GREENHECK, PENN BARRY, ACME, AMERICAN COOL AIR, CAPTIVE AIR

ELECTRIC HEATERS: MARKEL, Q-MARK, RAY WALL

DAMPERS: UNITED ENERTECH, GREENHECK, RUSKIN, ARROW UNITED, LLOYD INDUSTRIES (COLOR SELECTION SUBMITTED TO ARCHITECT)

CONTROLS-PROVIDED WITH UNIT: PROVIDE THERMOSTATS BY SAME MANUFACTURER AS EQUIPMENT

**COMcheck Software Version 4.1.5.5**  
**Mechanical Compliance Certificate**

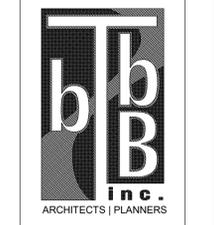
Project Information	
Energy Code:	2015 IECC
Project Title:	MBC Radio Shop
Location:	Macon, Georgia
Climate Zone:	3a
Project Type:	Alteration

Construction Site:	4520 Knight Road Macon, GA 31220	Owner/Agent:	Joseph Wiggins BTB Inc 609 Cherry Street Suite A Macon, GA GA (478) 742-1208	Designer/Contractor:	Krunal Patel Total Engineers 169 New Street Macon, GA 31201 (478) 741-4632
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Quantity	System Type & Description
4	AH-1.4 and HP-1.4 (Single Zone): Split System Heat Pump Heating Mode: Capacity = 24 kBTuh, Proposed Efficiency = 8.20 HSPF, Required Efficiency = 8.20 HSPF Cooling Mode: Capacity = 21 kBTuh, Proposed Efficiency = 14.50 SEER, Required Efficiency: 14.00 SEER Fan System: None
1	HP-1 and AC-1 (Single Zone): Split System Heat Pump Heating Mode: Capacity = 18 kBTuh, Proposed Efficiency = 10.80 HSPF, Required Efficiency = 8.20 HSPF Cooling Mode: Capacity = 18 kBTuh, Proposed Efficiency = 23.50 SEER, Required Efficiency: 14.00 SEER Fan System: None
1	WH: Electric Storage Water Heater, Capacity: 38 gallons Proposed Efficiency: 1.01 SL, %h (I > 12 kW), Required Efficiency: 1.01 SL, %h (I > 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.		
Krunal M. Patel - PE Name - Title	Krunal M. Patel Signature	10/8/2025 Date

Project Title:	MBC Radio Shop	Report date:	10/08/25
Data filename:	Z:\2025\044 MBC Radio Shop\HVAC\CALCULATIONS\COMcheck\044 MBC Radio Shop.ckk	Page	1 of 11



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**MBC RADIO SHOP**  
4520 KNIGHT ROAD, MACON, GEORGIA

Drawing Issue Schedule	
10/24/2025	Permit Set

Project No: 2024-29



169 New Street, Macon, GA 31201  
(478)741-4632 - T.E. project #25-044

**M0.2**

**AIR COOLED HEAT PUMP UNIT SCHEDULE**

**NOTES:**

1. PROVIDE WITH DEFROST CONTROLS, LOW AMBIENT HEAD PRESSURE CONTROLS, AND ANTI-SHORT CYCLE TIMER. PROVIDE COIL GUARD.
2. VERIFY ELECTRIC POWER REQUIREMENTS WITH ELECTRICAL PLANS, WHICH TAKE PRECEDENCE OVER THIS INFORMATION.
3. PROVIDE LIQUID LINE SOLENOID, CRANKCASE HEATER, TXV, START CAPACITOR AND RELAY AS RECOMMENDED BY MANUFACTURER FOR LONG LINE APPLICATIONS.
4. PROVIDE MOUNTING PAD AS PER DETAIL PROVIDED.
5. 2-STAGE COMPRESSOR UNIT.
6. PROVIDE LONG LINE ACCESSORIES PER NOTE 3 WHERE REFRIGERANT PIPE LENGTHS EXCEEDS 80-EQUIVLENT FEET.

MARK	DESCRIPTION	LOCATION		AHU SERVED	LAYOUT BASIS		HEAT PUMP HEATING CAPACITY (MBH)	REFRIGERANT TYPE	SEER2	HSPF2	NOMINAL CAPACITY (TONS)	OA TEMPERATURE SUMMER (DB)	OA TEMPERATURE WINTER (DB)	UNIT DIMENSIONS AND WEIGHT				VOLT (V)	PHASE (PH)	NOTES
		NAME	NO.		MANUFACTURER	MODEL NO.								LENGTH (IN)	WIDTH (IN)	HEIGHT (IN)	UNIT WEIGHT (LBS)			
HP-1	CONDENSING UNIT	OUTSIDE	-	AH-1	CARRIER	25HCE424A003	24	R-454B	14.5	8.2	2	95	47	26	26	35.50	144	208 V	1	1:2:3:4:5:6
HP-2	CONDENSING UNIT	OUTSIDE	-	AH-2	CARRIER	25HCE424A003	24	R-454B	14.5	8.2	2	95	47	26	26	35.50	144	208 V	1	1:2:3:4:5:6
HP-3	CONDENSING UNIT	OUTSIDE	-	AH-3	CARRIER	25HCE424A003	24	R-454B	14.5	8.2	2	95	47	26	26	35.50	144	208 V	1	1:2:3:4:5:6
HP-4	CONDENSING UNIT	OUTSIDE	-	AH-4	CARRIER	25HCE424A003	24	R-454B	14.5	8.2	2	95	47	26	26	35.50	144	208 V	1	1:2:3:4:5:6

**HEAT PUMP AIR HANDLING UNIT SCHEDULE**

**NOTES:**

1. UNIT AT 208/1Ø AUXILIARY HEATER AT 208/1Ø. 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. PROVIDE AIR FILTERS, DUCT CONNECTIONS AND VIBRATION ISOLATION. PROVIDE PROGRAMMABLE THERMOSTAT AND SUPP. ELEC. HEAT MODULE CONNECTED TO UNIT FOR SINGLE POINT OF CONNECTION.
4. PROVIDE CONDENSATE TRAP(S) AS RECOMMENDED BY MANUFACTURER.
5. PROVIDE AUXILIARY DRAIN PAN UNDER THE AIR HANDLERS WITH FLOAT ACTIVATED SWITCH TO SHUT THE UNIT DOWN INCASE 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. UNIT SHALL HAVE MANUFACTURER'S REFRIGERANT LEAK DETECTION DISSIPATION SYSTEM.

MARK	LOCATION		LAYOUT BASIS			SUPPLY FAN				EVAP. COIL ENTERING AIR DESIGN CONDITIONS		EVAP. COIL LEAVING AIR DESIGN CONDITIONS		SYSTEM COOLING MAX. REQUIREMENTS (MBH)		SUPPL. HEAT (KW)	WEIGHT (LBS)	POWER (VAC/PH)	NOTES
	NAME	NUMBER	MANUFACTURER	MODEL NO.	TYPE	DESIGN CFM	OUTSIDE AIRFLOW (CFM)	ESP (IN.WG)	HP	EAT DB (F)	EAT WB (F)	LAT DB (F)	LAT WB (F)	TOTAL (MBH)	SENSIBLE (MBH)				
AH-1	WAREHOUSE	113	CARRIER	FB4CNP025L00	VERTICAL	700	120	0.50	0.33	77.6	64.7	57.3	55.3	21.1	16.2	6.0	144	208/1	1:2:3:4:5:6:7:8:9
AH-2	WAREHOUSE	116	CARRIER	FB4CNP025L00	VERTICAL	700	120	0.50	0.33	77.6	64.7	57.3	55.3	21.1	16.2	6.0	144	208/1	1:2:3:4:5:6:7:8:9
AH-3	SUPPLY	106	CARRIER	FB4CNP025L00	VERTICAL	700	120	0.50	0.33	77.6	64.7	57.3	55.3	21.1	16.2	6.0	144	208/1	1:2:3:4:5:6:7:8:9
AH-4	MECH	115	CARRIER	FB4CNP025L00	VERTICAL	700	120	0.50	0.33	77.6	64.7	57.3	55.3	21.1	26.2	6.0	144	208/1	1:2:3:4:5:6:7:8:9

**MINI SPLIT SYSTEM SCHEDULE**

**NOTES:**

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 CONNNECTION TO OUTDOOR UNIT PER MANUFACTURER'S INSTRUCTIONS.
6. PROVIDE MANUFACTURER'S WIRED REMOTE CONTROLLER KSACN1401AAA.
7. PROVIDE RECTOR SEAL SS610E 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 MANUFACTURER'S INTEGRAL CONDENSATE PUMP. WHERE REQUIRED.

OUTSIDE UNIT MARK	INDOOR UNIT MARK	LAYOUT BASIS			COOLING CAPACITY (Btu/h)	HEATING CAPACITY (Btu/h)	DESIGN AIRFLOW (CFM)	VOLT (V)	PHASE (PH)	SEER2	HSPF2	SERVES	NOTES
		MANUFACTURER	OUTDOOR MODEL NO.	INDOOR MODEL NO.									
HPU-1	ACU-1	CARRIER	37MARAQ18AA3	45MAHAQ18XA3	18000	18000	635	208	1	23.5	10.8	ELECTRICAL/I.T.	1:2:3:4:5:6:7:8:9

**FAN SCHEDULE**

**NOTES:**

1. VERIFY ELECTRIC POWER REQUIREMENTS WITH ELECTRICAL PLANS, WHICH TAKE PRECEDENCE OVER THIS INFORMATION.
2. FAN TO BE INTERLOCKED WITH LIGHTS SUCH THAT FAN COMES ON WHEN LIGHTS ARE ON. PROVIDE 15-MINUTE TIME DELAY TO TURN OFF.
3. DIRECT DRIVE CENTRIFUGAL CEILING MOUNTED FAN. PROVIDE MANUFACTURER'S DESIGNER GRILLE, ROUND DUCT CONNECTION, SOLID STATE SPEED CONTROL AND MOTOR WITH THERMAL OVERLOAD.

MARK	LOCATION		LAYOUT BASIS		FAN PROPERTIES			AIRFLOW PROPERTIES			ELECTRICAL			WEIGHT (LBS)	NOISE CRITERIA (SONES)	NOTES
	NAME	NUMBER	MANUFACTURER	MODEL	FAN TYPE	DRIVE TYPE	RPM	MAX AIRFLOW (CFM)	MIN AIRFLOW (CFM)	ESP (IN.WG)	POWER (W)	VOLTAGE (V)	PHASE			
EF-1	TOILET	111	GREENHECK	SP-B80	EXHAUST FAN	DIRECT	900	75	70	0.14	18	115	1	9	0.6	1:2:3
EF-2	TOILET	103	GREENHECK	SP-B80	EXHAUST FAN	DIRECT	900	75	70	0.14	18	115	1	9	0.6	1:2:3

**GRILLES, REGISTERS AND DIFFUSERS SCHEDULE**

**NOTES:**

1. PROVIDE STANDARD WHITE FINISH.
2. INSULATE BACK OF DEVICE.
3. BALANCE AIRFLOW TO QUANTITY SHOWN.
4. PROVIDE FULL SIZE SHEET METAL PLENUM ON TOP OF GRILLE FOR DUCT CONNECTION.
5. FACE SIZE IS NOMINAL 2" LARGER THAN DUCT SIZE. SEE FLOOR PLAN.
6. PROVIDE ALUMINIZED FACE OPERATED DAMPER THAT IS ACCESSIBLE FROM THE FACE OF REGISTER/DIFFUSER.

MARK	DESCRIPTION	LAYOUT BASIS		MATERIAL	FINISH	FACE SIZE	NOTES
		MANUFACTURER	MODEL				
R1	EGGCRATE GRILLE	TITUS	50F	ALUMINUM	WHITE ENAMEL	24x24	1:4
R2	LOUVERED GRILLE	TITUS	350R	ALUMINUM	WHITE ENAMEL	NECK SIZE + 1-3/4"	1:3:5
S1	3-CONE DIFFUSER	TITUS	TMS	STEEL	WHITE ENAMEL	12x12	1:2:3
S2	3-CONE DIFFUSER	TITUS	TMS	STEEL	WHITE ENAMEL	24x24	1:2:3
S3	LOUVERED GRILLE	TITUS	300R	ALUMINUM	WHITE ENAMEL	NECK SIZE + 1-3/4"	1:3:5:6



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10/24/2025 Permit Set

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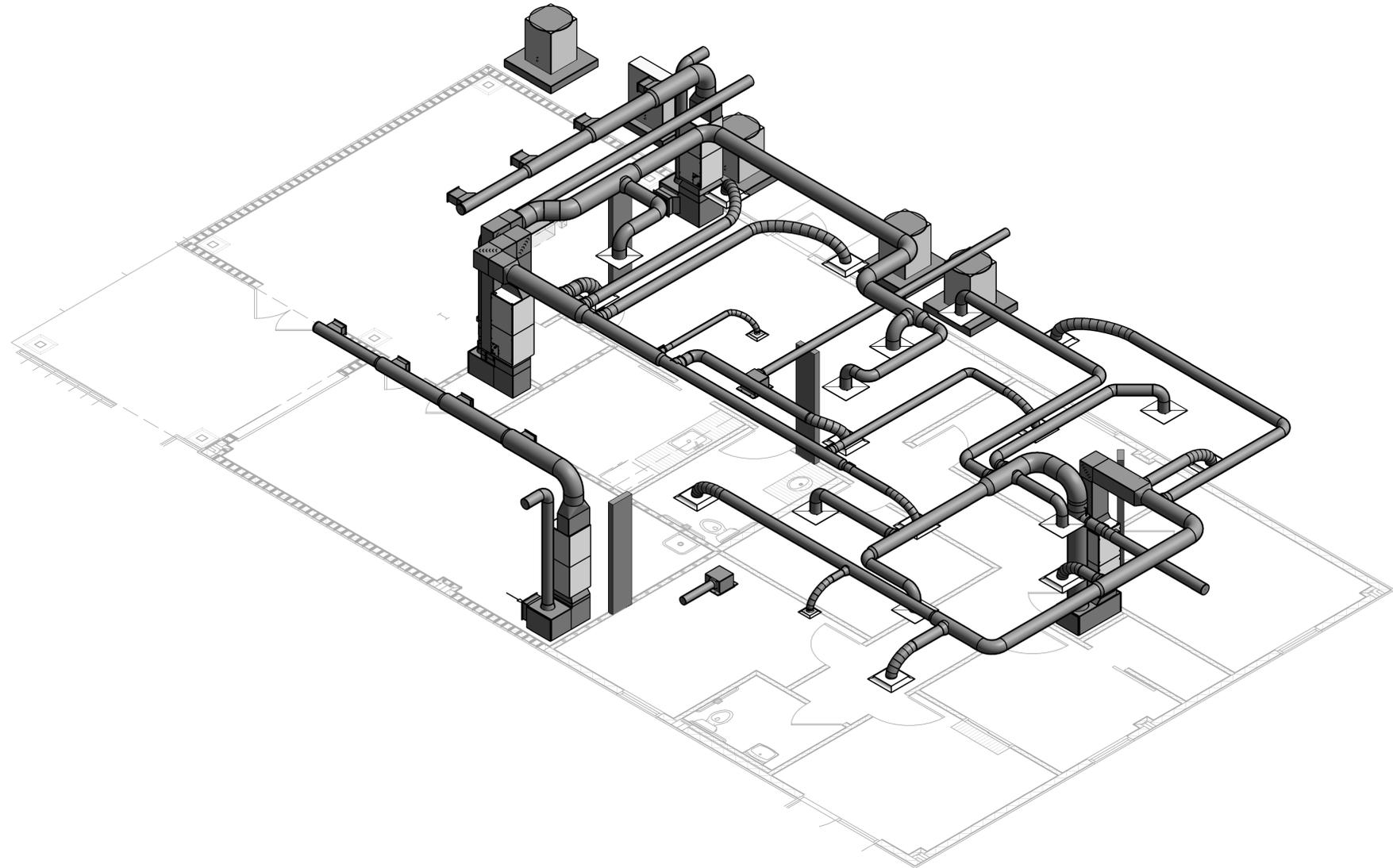
MECHANICAL SCHEDULES

**M0.3**

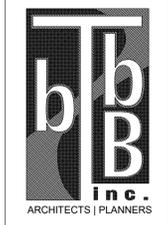








1 Building Isometric  
M1.2 NOT TO SCALE



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10/24/2025	Permit Set
Project No:	2024-29



169 New Street, Macon, GA 31201  
(478)741-4632 - T.E. project #25-044

FIRST FLOOR NEW WORK  
ISOMETRIC PLAN -  
MECHANICAL

**M1.2**

# ELECTRICAL SPECIFICATIONS

DIVISION 26  
ELECTRICAL

## SECTION A: GENERAL ELECTRICAL REQUIREMENTS

- THESE PLANS AND SPECIFICATIONS APPLY TO THE MBC RADIO SHOP IN MACON, GEORGIA, THE WORK DESCRIBED BY THESE PLANS AND SPECIFICATIONS APPLY TO THE INDICATED PROJECT AND MAY NOT BE MODIFIED OR REUSED WITHOUT WRITTEN APPROVAL OF THE ENGINEER.
- ALL WORK SHALL BE PERFORMED BY LICENSED ELECTRICAL CONTRACTOR WITH MINIMUM OF TWO YEARS OF EXPERIENCE, LIST OF PREVIOUS JOBS AND REFERENCES SHALL BE MADE AVAILABLE UPON REQUEST. CONTRACTOR SHALL PROVIDE ADEQUATE INSURANCE FOR PERSONNEL AND SHALL REPAIR ANY DAMAGE OCCURRING AS THE RESULT OF THIS PROJECT SITE AND RELATED PROPERTY.
- ALL WORK SHALL BE PERFORMED IN A PROFESSIONAL MANNER IN ACCORDANCE WITH THE 2023 NATIONAL ELECTRICAL CODE, LIFE SAFETY CODE NFPA 101, ADA CODE, GA ACCESSIBILITY CODE, STATE OF GEORGIA ENERGY CODE AND ALL OTHER APPLICABLE CODES AND ORDINANCES.
- ALL PERMITS AND FEES SHALL BE OBTAINED AND PAID FOR BY THE CONTRACTOR.
- ALL EQUIPMENT, MATERIAL, AND DEVICES SHALL BE LISTED OR RECOGNIZED BY UNDERWRITER'S LABORATORY OR ELECTRICAL TESTING LABORATORY AND USED AND INSTALLED IN ACCORDANCE WITH ITS LISTING.
- ALL WORK PERFORMED SHALL BE WARRANTED FOR A PERIOD OF ONE YEAR FROM THE FINAL COMPLETION DATE EXCEPT FOR FUSES AND LAMPS IN LIGHT FIXTURES. UPON NOTIFICATION OF A PROBLEM, THE CONTRACTOR SHALL INVESTIGATE THE PROBLEM WITHIN 48 HOURS UNLESS A DIFFERENT TIME PERIOD IS AGREED TO. THE CONTRACTOR SHALL INVESTIGATE, REPAIR OR REPLACE ALL FAULTY EQUIPMENT WITHIN A REASONABLE TIME PERIOD WITHOUT CHARGE TO THE OWNER.
- THE TERM "PROVIDE" SHALL BE UNDERSTOOD TO MEAN, OBTAIN THE ITEM DESCRIBED, INSTALL ITEM IN ACCORDANCE WITH THESE PLANS, SPECIFICATIONS, AND MANUFACTURER'S RECOMMENDATIONS.
- ALL PENETRATIONS IN FIRE RATED BUILDING PORTIONS SHALL BE SEALED WITH A LISTED RESISTANT MATERIAL SUITABLE FOR THE APPLICATION.
- ALL INSTALLATIONS OF ELECTRICAL EQUIPMENT AND MATERIALS SHALL BE COORDINATED WITH OTHER TRADES PRIOR TO INSTALLATION.
- PLANS ARE DIAGRAMMATIC AND SHOW THE LOCATION OF THE EQUIPMENT, RACEWAY AND FIXTURES, AND ARE NOT TO BE SCALED. ALL DIMENSIONS SHALL BE VERIFIED AT THE BUILDING SITE.
- CONTRACTOR SHALL VERIFY AND COORDINATE ALL EQUIPMENT AND DEVICE LOCATIONS WITH OWNER'S PROJECT MANAGER PRIOR TO INSTALLATION.
- EQUIPMENT BREAKER AND WIRING REQUIREMENTS: THE CONTRACTOR SHALL SUBMIT FOR REVIEW A TABULATED SHEET OF BREAKER AND WIRING REQUIREMENTS FOR ALL MECHANICAL EQUIPMENT REQUIRING POWER AS SPECIFIED IN DIVISION 23. REQUIREMENTS SHALL BE IDENTIFIED BY HORSEPOWER OR KW, OPERATING AMPERAGE, REQUIRED VOLTAGE AND CONTAIN ANY POLYCHLORINATED BIPHENYL (PCB).
- ALL LIGHTING FIXTURES SHALL BE TESTED TO IES LM-79 AND IES LM-80 STANDARDS. OUTDOOR FIXTURES SHALL BE IP65 RATED, FIXTURES, BALLAST AND ALL COMPONENTS SHALL HAVE A SYSTEM LIFETIME OF 50,000 HOURS OR MORE AT 25 DEGREES CELSIUS AND SHALL MAINTAIN A MINIMUM OF 85% OF INITIAL LUMEN OUTPUT AFTER 50,000 HOURS OF OPERATION. LED'S SHALL HAVE COLOR RENDERING INDEX (CRI) OF 80 OR GREATER.
- ALL SURFACE MOUNTED FIXTURES SHALL BE INDEPENDENTLY SUPPORTED FROM STRUCTURE. ALL CEILING MOUNTED FIXTURES SHALL BE SUPPORTED FROM STRUCTURE AND BRACED TO PREVENT MOVEMENT IF IMPACTED.
- ALL RECESSED FIXTURES IN LAY IN TYPE CEILINGS SHALL BE PROVIDED WITH GRID CLIPS TO FASTEN FIRMLY TO CEILING SUPPORT GRID. THE CEILING GRID SHALL BE SUPPORTED AT EACH CORNER OF A FIXTURE.
- CONNECTION TO ALL FIXTURES IN LAYIN CEILING SHALL BE BY FLEXIBLE CONDUIT OF FOUR TO SIX FEET IN LENGTH. A GROUND CONDUIT WILL BE INCLUDED WITH THIS CONNECTION.
- ALL LENSES ON FIXTURES SHALL BE 0.125 INCH THICK MINIMUM. ALL HOUSINGS SHALL BE 22 GAUGE STEEL MIN. AND HAVE A POST FABRICATION HIGH REFLECTIVE WHITE FINISH.

- SECTION D: LIGHTING
  - TYPES AND SPECIFIC REQUIREMENTS ARE PROVIDED ON THE LIGHTING FIXTURE SCHEDULE ON THE PLANS. ALL LIGHT FIXTURES SHALL BE PROVIDED WITH DRIVERS, AND FULLY FUNCTIONING AT COMPLETION OF PROJECT.
  - ALL LIGHTING FIXTURES SHALL BE U.L. LISTED AND HAVE A MINIMUM OF 5 YEAR ON-SITE REPLACEMENT WARRANTY FOR DEFECTIVE OR NON-STARTING SOURCE ASSEMBLIES, DRIVERS, AND FOR LUMINAIRES EXHIBING INADEQUATE LUMEN OUTPUT. IT SHALL COVER MATERIAL, FIXTURE FINISH, WORKMANSHIP, AND SHIPPING. ON-SITE REPLACEMENT SHALL INCLUDE TRANSPORTATION, REMOVAL, AND INSTALLATION OF NEW FIXTURE.
  - RATED LUMINAIRE WATTAGE SHALL BE ACTUAL, ACCOUNTING FOR ANY REDUCTION IN EFFICIENCY DUE TO SUB-OPTIMAL LOADING OF DRIVERS.
  - DRIVERS SHALL BE CAPABLE OF ACCEPTING THE VOLTAGE INDICATED ON THE LIGHTING FIXTURE SCHEDULE AND CAPABLE OF DIMMING IF REQUIRED. DRIVERS SHALL HAVE A CLASS A RATING, TOTAL HARMONIC DISTORTION OF LESS THAN 20%, AND SHALL NOT CONTAIN ANY POLYCHLORINATED BIPHENYL (PCB).
  - ALL LIGHTING FIXTURES SHALL BE TESTED TO IES LM-79 AND IES LM-80 STANDARDS. OUTDOOR FIXTURES SHALL BE IP65 RATED, FIXTURES, BALLAST AND ALL COMPONENTS SHALL HAVE A SYSTEM LIFETIME OF 50,000 HOURS OR MORE AT 25 DEGREES CELSIUS AND SHALL MAINTAIN A MINIMUM OF 85% OF INITIAL LUMEN OUTPUT AFTER 50,000 HOURS OF OPERATION. LED'S SHALL HAVE COLOR RENDERING INDEX (CRI) OF 80 OR GREATER.
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  - ALL LENSES ON FIXTURES SHALL BE 0.125 INCH THICK MINIMUM. ALL HOUSINGS SHALL BE 22 GAUGE STEEL MIN. AND HAVE A POST FABRICATION HIGH REFLECTIVE WHITE FINISH.
- SECTION E: TELEPHONE/DATA SYSTEMS RACEWAY
  - FOR OUTLETS IN AREA OF LAYIN CEILING, PROVIDE 1 IN. EMT FROM EACH OUTLET TO 12 INCHES ABOVE ACCESSIBLE CEILING. PROVIDE 4 IN. SQUARE BACKBOX WITH SINGLE GANG PLASTER RING FOR EACH TELE/DATA OUTLET. ALL CONDUIT SHALL BE CONCEALED.
  - FOR OUTLETS IN AREAS OF EXPOSED STRUCTURE, PROVIDE 1 IN. EMT FROM EACH OUTLET TO ABOVE TELECOM BACKBOARD OR TO ABOVE NEAREST ACCESSIBLE CEILING. PROVIDE 4 IN. SQUARE BACKBOX WITH SINGLE GANG PLASTER RING FOR EACH TELE/DATA OUTLET. ALL CONDUIT SHALL BE CONCEALED IN WALL WHERE POSSIBLE, WHERE EXPOSED, CONDUIT IS TO BE RIGID GALVANIZED STEEL TYPE (RGS). PROVIDE FACEPLATE WITH MODULAR JACKS. PROVIDE PULL STRING IN ALL EMPTY CONDUITS.
  - PROVIDE A 4'X8' TELECOM BACKBOARD AS SHOWN ON PLANS. BACKBOARD TO BE FIRE RESISTANT PLYWOOD, AND PAINTED GRAY. BACKBOARD IS TO HAVE QUADRUPLX OUTLET FLUSH WITH SURFACE.

## SECTION B: BASIC MATERIALS

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

## SECTION C: DISTRIBUTION EQUIPMENT

- CONTRACTOR SHALL PROVIDE CONDUCTORS AND CONDUIT FOR ALL FEEDERS IN ACCORDANCE WITH THE PLANS.
- SEPERATELY MOUNTED CIRCUIT BREAKERS SHALL BE MOUNTED IN NEMA TYPE I ENCLOSURES IN INDOOR APPLICATIONS AND IN NEMA 3R ENCLOSURES IN EXTERIOR OR WET LOCATIONS. ALL CIRCUIT BREAKER ENCLOSURES SHALL BE PROVIDED WITH HINGED COVERS AND PROVISIONS FOR PADLOCKING THE COVERS.
- ALL EQUIPMENT CONTAINING MOTORS SHALL BE PROVIDED WITH A DISCONNECTING MEANS WITHIN TEN FEET OF THE UNIT UNLESS OTHERWISE NOTED. THIS DISCONNECTING MEANS SHALL AS A MINIMUM BE A NON-FUSED SWITCH OR TOGGLE STARTER SIZED TO MATCH THE EQUIPMENT. PROVIDE OTHER DEVICES AS NOTED ON THE PLANS. PROVIDE NEMA TYPE I ENCLOSURES INDOORS AND NEMA 3R OUTDOORS.

- PROVIDE GFCI CIRCUIT BREAKERS AND RECEPTACLES AS INDICATED ON THE PLANS AND IN THESE SPECIFICATIONS. THESE DEVICES SHALL BE CLASS A GFCI DEVICES.
- PROVIDE PANELS AS SCHEDULED ON PLANS. CIRCUIT BREAKERS SHALL BE BOLT ON TYPE THERMAL-MAGNETIC BREAKERS WITH A MINIMUM INTERRUPTING RATING OF 10,000 AIC FOR 120/208V AND 14,000 AIC FOR 277/480V OR AS INDICATED ON THE PLANS. BREAKERS SHALL HAVE 65/75 DEGREE C RATED TERMINATIONS. PANEL NOTED SHALL BE SERVICE ENTRANCE RATED. MOUNT PANELS WITH TOP OF PANEL 6 FT. ABOVE FLOOR. PROVIDE 3/4 IN., GREY PAINTED PLYWOOD BACKBOARD FOR ALL PANELS SECURED TO WALL WITH 1/4 IN. TOGGLE BOLTS. PANEL MANUFACTURERS: SCHNEIDER, ABB, SIEMENS, AND Eaton. ALL CURRENT CARRYING PARTS SHALL BE COPPER.
- SYSTEM COORDINATION: THE MANUFACTURER OF THE PANELBOARDS SHALL PROVIDE SERIES RATED EQUIPMENT BASED ON U.L. LISTED TEST RESULTS. THE CONTRACTOR SHALL VERIFY THE AVAILABLE SHORT CIRCUIT CURRENT AT THE SERVING TRANSFORMER.
- PROVIDE EACH PANELBOARD WITH A TYPEWRITTEN CIRCUIT BREAKER DIRECTORY CARD INSIDE A PLASTIC COVERING (EVERY CIRCUIT AND CIRCUIT MODIFICATION SHALL BE LEGIBLY IDENTIFIED AS TO ITS CLEAR, EVIDENT, AND SPECIFIC PURPOSE OR USE. THE IDENTIFICATION SHALL INCLUDE SUFFICIENT DETAIL TO ALLOW EACH CIRCUIT TO BE DISTINGUISHED FROM ALL OTHERS). THE DIRECTORY AND COVERING SHALL BE LOCATED INSIDE A STEEL FRAME PROVIDED INSIDE THE DOOR OF EACH PANELBOARD. THE DIRECTORY SHALL BE TYPED TO IDENTIFY THE LOAD FED BY EACH CIRCUIT BREAKER AND THE AREAS SERVED.
- PROVIDE NAMEPLATES FOR ALL PANELBOARDS, DISCONNECT SWITCHES, ENCLOSED CIRCUIT BREAKERS, COMBINATION STARTERS, CONTACTORS, AND ALL OTHER ELECTRICAL DISTRIBUTION EQUIPMENT PANELS. MOUNT NAMEPLATES ON EXTERIOR OF THE DOOR OF ALL SURFACE MOUNTED PANELS AND EQUIPMENT. NAME PLATES SHALL BE LAMINATED PLASTIC PLATES WITH 3/16 IN. HIGH WHITE LETTERS ETCHED ON BLACK BACKGROUND. NAME PLATES SHALL BE INSTALLED PARALLEL TO EQUIPMENT LINES. THE NAME OR USAGE OF EACH DEVICE OR BRANCH CIRCUIT SHALL BE ETCHED IN THE NAMEPLATE. CONTRACTOR TO COORDINATE EXACT EQUIPMENT IDENTIFICATION WITH THE OWNER. SECURE NAMEPLATES VIA EPOXY GLUE.

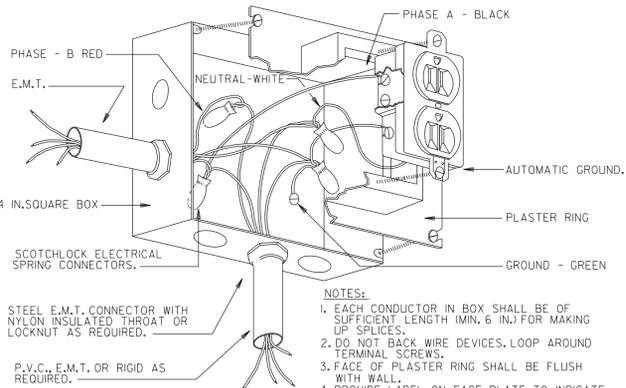
## SECTION D: LIGHTING

- TYPES AND SPECIFIC REQUIREMENTS ARE PROVIDED ON THE LIGHTING FIXTURE SCHEDULE ON THE PLANS. ALL LIGHT FIXTURES SHALL BE PROVIDED WITH DRIVERS, AND FULLY FUNCTIONING AT COMPLETION OF PROJECT.
- ALL LIGHTING FIXTURES SHALL BE U.L. LISTED AND HAVE A MINIMUM OF 5 YEAR ON-SITE REPLACEMENT WARRANTY FOR DEFECTIVE OR NON-STARTING SOURCE ASSEMBLIES, DRIVERS, AND FOR LUMINAIRES EXHIBING INADEQUATE LUMEN OUTPUT. IT SHALL COVER MATERIAL, FIXTURE FINISH, WORKMANSHIP, AND SHIPPING. ON-SITE REPLACEMENT SHALL INCLUDE TRANSPORTATION, REMOVAL, AND INSTALLATION OF NEW FIXTURE.
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- ALL LIGHTING FIXTURES SHALL BE TESTED TO IES LM-79 AND IES LM-80 STANDARDS. OUTDOOR FIXTURES SHALL BE IP65 RATED, FIXTURES, BALLAST AND ALL COMPONENTS SHALL HAVE A SYSTEM LIFETIME OF 50,000 HOURS OR MORE AT 25 DEGREES CELSIUS AND SHALL MAINTAIN A MINIMUM OF 85% OF INITIAL LUMEN OUTPUT AFTER 50,000 HOURS OF OPERATION. LED'S SHALL HAVE COLOR RENDERING INDEX (CRI) OF 80 OR GREATER.
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- SECTION E: TELEPHONE/DATA SYSTEMS RACEWAY
  - FOR OUTLETS IN AREA OF LAYIN CEILING, PROVIDE 1 IN. EMT FROM EACH OUTLET TO 12 INCHES ABOVE ACCESSIBLE CEILING. PROVIDE 4 IN. SQUARE BACKBOX WITH SINGLE GANG PLASTER RING FOR EACH TELE/DATA OUTLET. ALL CONDUIT SHALL BE CONCEALED.
  - FOR OUTLETS IN AREAS OF EXPOSED STRUCTURE, PROVIDE 1 IN. EMT FROM EACH OUTLET TO ABOVE TELECOM BACKBOARD OR TO ABOVE NEAREST ACCESSIBLE CEILING. PROVIDE 4 IN. SQUARE BACKBOX WITH SINGLE GANG PLASTER RING FOR EACH TELE/DATA OUTLET. ALL CONDUIT SHALL BE CONCEALED IN WALL WHERE POSSIBLE, WHERE EXPOSED, CONDUIT IS TO BE RIGID GALVANIZED STEEL TYPE (RGS). PROVIDE FACEPLATE WITH MODULAR JACKS. PROVIDE PULL STRING IN ALL EMPTY CONDUITS.
  - PROVIDE A 4'X8' TELECOM BACKBOARD AS SHOWN ON PLANS. BACKBOARD TO BE FIRE RESISTANT PLYWOOD, AND PAINTED GRAY. BACKBOARD IS TO HAVE QUADRUPLX OUTLET FLUSH WITH SURFACE.

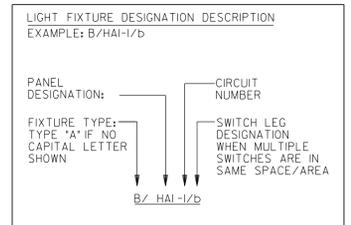
LIGHTING FIXTURE SCHEDULE		
TYPE	DESCRIPTION	MANUFACTURER
A	2 FT. X 4 FT. RECESSED EDGE LIT FLAT PANEL: ALUMINUM FRAME CONSTRUCTION; SATIN WHITE LENS FOR FULLY LUMINOUS APPEARANCE.  LAMPS: LED, 4900 LUMENS MINIMUM, 45 WATTS, 3500 DEGREE K DRIVER: UNV. VOLT	LITHONIA "EPANEL" SER., METALUX "FP" SER., COLUMBIA "GFP" SER.
B	36" LONG, NOMINAL 5" HIGH X 4" DEEP SQUARE LINEAR VANITY FIXTURE: FROSTED ACRYLIC DIFFUSER PROVIDING SOFT EVEN ILLUMINATION BRUSHED ALUMINUM FINISH END CAPS, SOLID BACK PLATE MOUNTING, DAMP LOCATION RATED, 0-10 DIMMING STANDARD.  LAMPS: LED, 3500 LUMENS, 25 WATTS, 3500 DEGREE K DRIVER: UNV. VOLT	TERON "CAPRI" SER., BROWNLIE "FORM" SER., OXYGEN "APOLLO" SER.
C	8 FT FLAT LENSED LED STRIPLIGHT, WITH ROUND FROSTED DIFFUSE LENS, (WIDE) DISTRIBUTION, PENDANT MOUNTED, STANDARD 0-10 DIMMING. PROVIDE WITH BUILT-IN OCCUPANCY SENSOR.  LAMPS: LED, 7500 LUMENS MINIMUM, 65.5 WATTS, 4000 DEGREE K DRIVER: UNV. VOLT DRIVER	METALUX "SNX" SER., LITHONIA "CLX" SER., COLUMBIA "MPS" SER., DAYBRITE "FSS" SER.
D	2 FT LENSED LED STRIPLIGHT, WITH ROUND FROSTED DIFFUSE LENS, SURFACE MOUNTED, STANDARD 0-10 DIMMING  LAMPS: LED, 1066 LUMENS MINIMUM, 7 WATTS, 4000 DEGREE K DRIVER: UNV. VOLT DRIVER	METALUX "SNX" SER., LITHONIA "CLX" SER., COLUMBIA "MPS" SER., DAYBRITE "FSS" SER.
OA	EXTERIOR IP65 RATED OR BETTER, FULL CUTOFF, OUTDOOR WALL SCONCE / AREA LIGHT. QUARTER SPHERE DESIGN DIE CAST ALUMINUM HOUSING, 40 TO 40 C OPERATION, COLOR SELECTED BY ARCHITECT, BUILT IN SURGE SUPPRESSOR. PROVIDE WITH BUILT IN COMBO PHOTO-CELL AND OCCUPANCY SENSOR WITH DIMMER CONTROL FOR LOW ACTIVE NIGHT CONTROL TYPE IV (4) WIDE OPTICS. BOTTOM ELEVATION AT 126" AFF UNLESS SPECIFICALLY NOTED OTHERWISE ON PLANS.  LAMPS: LED, 3500 LUMENS, 28 WATTS, 4000 DEGREE K DRIVER: UNV. VOLT	MCGRAW EDISON "ISS" SERIES BEACON "OSP" SERIES OR PRIOR 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, 2.2 WATTS DRIVER: UNV. VOLT DRIVER	SURE LITES "LPX-C" SER., LITHONIA "LHM" 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) 1.0W DRIVER: UNV. VOLT DRIVER	COMPASS "CU2" SER., EMERGLITE EL-2LED" SER.
⚡	EXTERIOR ARCHITECTURAL STYLED LOW PROFILE LED AC / EMERGENCY LIGHTING UNIT, SELF DIAGNOSTICS STANDARD, WET LOCATION WITH FULLY GASKETED HOUSING AND 20C TO 50C OPERATION, PRISMATIC POLYCARB REFRACTOR AND BUILT IN PHOTOCELL FOR NORMAL OPERATION, 1200 LUMEN NORMAL / 350 LUMEN EMERGENCY, 90 MIN. BACK-UP BATTERY, BRONZE / BLACK SELECTED BY ARCHITECT.  LAMPS: LED, 14 WATT AC / 3.0 WATT EMERGENCY BALLAST: UNV. VOLT	LITHONIA "AFO" SER., MULE "MAKO" SER., SPITZER "EWS" SER., COMPASS "CUV" SER., H.E. WILLIAMS "EMER" SER.

**LIGHTING FIXTURE SCHEDULE**  
NOTES:  
1. CONTRACTOR TO VERIFY ALL VOLTAGES, GRID AND CEILING TYPES WITH THE ARCHITECT AND COORDINATE FIXTURE DIMENSION SIZE TO ENSURE A PROPER FIT IN ALL CEILING TYPES PRIOR TO ORDERING.



## 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)

# 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.
	HOMERUN TO PANELBOARD, LETTER OR LETTERS INDICATE PANELBOARD. NUMBERS INDICATES CIRCUIT NUMBERS.
	LIGHT FIXTURE, SEE SCHEDULE FOR MOUNTING AND TYPE.
	LIGHT FIXTURE, SEE SCHEDULE FOR MOUNTING AND TYPE.
	JUNCTION BOX, FLUSH WALL MOUNTED.
	DUPLEX CONVENIENCE OUTLET, 18 IN. ABOVE FLOOR UNLESS OTHERWISE NOTED.
	QUADRUPLX CONVENIENCE OUTLET, 18 IN. ABOVE FLOOR UNLESS OTHERWISE NOTED.
	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.
	SPECIAL RECEPTACLE TO SUIT EQUIPMENT BEING FURNISHED.
	CEILING MOUNTED OUTLET WITH ONE TWIST LOCK SIMPLEX OUTLET. SUPPORT BOX BY 3/8 IN. THREADED ROD TO STRUCTURE. PROVIDE ROD. 0-10 VOLT SLIDE TYPE DIMMER, 42 IN. ABOVE FLOOR. 2015 IECC COMPLIANT (MANUAL ON TO 50% DIM 1=100%, AUTO OFF).
	SINGLE POLE TOGGLE SWITCH, 42 IN. ABOVE FLOOR.
	THREE OR FOUR WAY SWITCH AS INDICATED, 42 IN. MOUNTING HEIGHT.
	PANELBOARD, SEE SCHEDULE.
	DISCONNECT SWITCH.
TELEPHONE/DATA SYSTEMS (RACEWAY, BOXES AND PULLSTRINGS ONLY)	
	TELEPHONE OUTLET, 18 IN. TO CENTER LINE OF OUTLET UNLESS NOTED OTHERWISE.
	COMBINATION DATA AND TELEPHONE OUTLET, 18 IN. TO CENTER LINE OF OUTLET UNLESS NOTED OTHERWISE.
	CEILING MOUNTED DATA OUTLET. SUPPORT BOX BY 3/8 IN. THREADED ROD TO STRUCTURE.
LIGHTING CONTROL SENSORS	
	WALL MOUNTED SENSOR SWITCH, 42 IN. MOUNTING HEIGHT (WATTSTOPPER DW-100, GREENGATE, NOVITAS, HUBBELL, LEVITON, SENSOR SWITCH).
	PASSIVE INFRARED SENSOR (WATT STOPPER "WPIR", GREENGATE, NOVITAS, HUBBELL, LEVITON, SENSOR SWITCH).
	ULTRASONIC OCCUPANCY SENSOR (WATT STOPPER "WT-2250", GREENGATE, NOVITAS, HUBBELL, LEVITON, SENSOR SWITCH).
	COMBINATION 360 DEGREE, ULTRASONIC AND PASSIVE INFRARED SENSOR (WATT STOPPER "GREENGATE, NOVITAS, HUBBELL, LEVITON, SENSOR SWITCH). "CV" INDICATES VACANCY SENSOR. DIMMER AND VACANCY SENSOR MUST BE COMPATIBLE.

NOTES:  
1. ALL MOUNTING HEIGHTS ARE FROM FINISHED FLOOR TO CENTERLINE OF OUTLET OR DEVICE.

## GENERAL NOTES:

- 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 1/4 IN. 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.
- ALL VOICE AND DATA SYSTEM CABLING, DEVICES AND CONTROL EQUIPMENT BY OTHERS EXCEPT AS NOTED. RACEWAY SYSTEMS ONLY PROVIDED BY ELECTRICAL CONTRACTOR.
- 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.
- 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.
- ALL RECEPTACLES LOCATED IN THE WAREHOUSE BUILDING MUST BE MOUNTED AT LEAST 26 IN. ABOVE FLOOR.
- COORDINATE THE EXACT LOCATION OF ALL EQUIPMENT WITH OWNER/ARCHITECT PRIOR TO ELECTRICAL ROUGH-IN. NO EXCEPTIONS.
- FIRE ALARM SYSTEM AND SECURITY SYSTEM BY OWNER.

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# MBC RADIO SHOP

4520 KNIGHT ROAD, MACON, GEORGIA

Drawing Issue Schedule	
10-24-2025	Permit Set
Project No:	2024-29

Electrical Legend, Schedules and Details

# E1.1

ELECTRICAL ENGINEERS  
MACON OFFICE - PROJECT #: M25084  
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