



CITY OF SALEM

PURCHASING DEPARTMENT

114 NORTH BROAD STREET
P.O. Box 869
SALEM, VA 24153
PHONE (540) 375-3063 ♦ FAX (540) 375-4057

DATE: NOVEMBER 7, 2023

BIDS WILL BE RECEIVED BY THE CITY OF SALEM IN THE PURCHASING DEPARTMENT, LOCATED AT 114 NORTH BROAD STREET, P.O. Box 869, SALEM, VIRGINIA 24153. ANY QUESTIONS CONCERNING THIS INVITATION TO BID (ITB) SHOULD BE DIRECTED TO MICHELLE BRAXTON, PURCHASING MANAGER AT (540) 375-3063 OR BY EMAIL AT LMBRAXTON@SALEMVA.GOV.

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|-------------------------------|---|
| INVITATION TO BID #: | 2024-011 |
| BID DESCRIPTION: | CITY OF SALEM COURTHOUSE - JURY ROOM EXPANSION |
| DATE AND TIME BID DUE: | DECEMBER 13, 2023 AT 3:00 P.M. |

TO BE CONSIDERED, RETURN ONE (1) ORIGINAL AND THREE (3) COPIES, IN A SEALED ENVELOPE, CLEARLY MARKED “ATTN: PURCHASING DEPARTMENT - ITB #2024-011 – CITY OF SALEM COURTHOUSE - JURY ROOM EXPANSION” WITH YOUR COMPANY NAME AND THE DATE/TIME BID IS DUE. ANY BID RECEIVED AFTER THE ABOVE DATE AND TIME FOR SUBMITTAL, WHETHER BY MAIL OR OTHERWISE, WILL BE REJECTED AND SUCH BID SHALL BE RETURNED TO THE BIDDER UNOPENED. **FAXED OR EMAILED BIDS ARE NOT ACCEPTABLE.**

AWARD WILL BE MADE IN THE BEST INTEREST OF THE CITY OF SALEM, THE CITY RESERVES THE RIGHT TO REJECT ANY OR ALL BIDS, TO WAIVE INFORMALITIES, AND TO PURCHASE ANY PART OF, OR THE WHOLE OF, THE ITEMS AND/OR SERVICES LISTED IN THIS INVITATION TO BID.

NO BID MAY BE WITHDRAWN AFTER OPENING EXCEPT FOR CLERICAL ERRORS, AS SET FORTH IN SECTION 2.2-4330 OF THE VIRGINIA CODE. BIDDER MUST GIVE THE CITY A NOTICE IN WRITING OF THE REQUEST TO WITHDRAW A BID WITHIN TWO (2) BUSINESS DAYS AFTER THE CONCLUSION OF THE BID OPENING.

ALL BIDS SHALL BE F.O.B. SALEM, VIRGINIA, AND SHALL INCLUDE THE EARLIEST DELIVERY DATE.

THE CITY OF SALEM WILL FURNISH A TAX EXEMPTION CERTIFICATE, AND NO BID SHALL INCLUDE ANY FEDERAL OR STATE TAXES.

TERMS ARE NET 30 UNLESS OTHERWISE STATED IN THIS INVITATION TO BID.

THE CITY OF SALEM DOES NOT DISCRIMINATE AGAINST FAITH BASED ORGANIZATIONS.

DATE: _____

LEGAL NAME OF BUSINESS (PRINT): _____

ADDRESS: _____

AUTHORIZED SIGNATURE: _____

PRINT OR TYPE AUTHORIZED SIGNATURE NAME & TITLE: _____

PHONE NUMBER: _____

FAX NUMBER: _____

EMAIL ADDRESS: _____

VA CONTRACTOR'S LICENSE #: _____

VIRGINIA STATE CORPORATION COMMISSION (SCC) ID #: _____

BUSINESS LICENSE #: _____

BY SIGNING THIS INVITATION TO BID (ITB), THE BIDDER ACKNOWLEDGES THAT HE/SHE FULLY UNDERSTANDS THIS ITB AND THAT IT MEETS OR EXCEEDS ALL SPECIFICATIONS LISTED OR REFERENCED.

ITB # 2024-011**CITY OF SALEM COURTHOUSE - JURY ROOM EXPANSION****I. GENERAL INFORMATION:**

The City of Salem, Virginia, is requesting sealed bids from qualified Contractors for all labor, materials, and equipment needed for the renovation and expansion of the Jury Room in the City Courthouse, located at 2 E Calhoun Street, Salem, VA, in accordance with Invitation to Bid (ITB) # 2024-011.

There will be a **non-mandatory** pre-bid meeting at **10:00 a.m. on November 15, 2023**, in the Jury Room in the City Courthouse, located at 2 E Calhoun Street, Salem, Virginia, 24153, to answer any questions from interested parties.

There will also be a **non-mandatory** site visit at **10:00 a.m. on November 16, 2023** for Bidders who were unable to attend the pre-bid meeting and/or to re-visit the site. There will be no questions answered at the site visit.

Bidders are strongly encouraged to attend the pre-bid meeting and/or site visit to review existing conditions prior to submitting a bid on this project.

Project plans may be obtained by email to: Imbraxton@salemva.gov or from City of Salem's Purchasing Website at: <https://salemva.gov/220/Purchasing>

This Invitation to Bid consists of the following (including any Addendums that the City may issue). Each Bidder should carefully read and review ALL documents:

1. All Sections of Invitation to Bid # 2024-011
2. Summary of Work/Project Drawings (Attachment A)
3. General and Supplemental Conditions (Attachment B)
4. Bid Form (Attachment C)
5. Bid Bond (Attachment D)
6. Supplemental Terms and Conditions (Attachment E)

There will be liquidated damages as specified in General and Supplemental Conditions, Section 14, Changes in Contract Price, Completion and Liquidated Damages.

The City of Salem invites any qualified Bidder to respond to this ITB by submitting a Bid for such work, service, and/or items consistent with the terms and conditions herein set forth.

II. INSTRUCTIONS TO BIDDERS:

- A. **Sealed Bids shall be received by Michelle Braxton of the City of Salem Purchasing Department, 114 North Broad Street, Salem, VA 24153 by 3:00 p.m., on Wednesday, December 13, 2023.** Bidders shall submit one (1) original and two (2) copies of their bid in a sealed envelope clearly marked on the outside with the company's name and **"Attn: Purchasing Department - ITB # 2024-011 – City of Salem Courthouse - Jury Room Expansion"**. Any bids received after the mentioned time and date will be returned to the Bidder unopened. Faxed or emailed bids will not be accepted.

At this time, the contents of all bids will be read aloud and made public for the information of Bidders and other interested parties who may be present in person or by representative.

- B. Each Bidder is solely responsible for ensuring that they have the current, complete version of the Bid documents, including any addendum(s), before submitting. The City is not responsible for any Bid documents obtained from any source other than the City.

- C. **Bid submittal shall include:**

1. Bidder Acknowledgment & Data Sheet, Page 1 of this ITB
2. Bid Form (Attachment C), Page 64 of this ITB
3. Bid Bond (Attachment D), Page 65 of this ITB

ITB # 2024-011**CITY OF SALEM COURTHOUSE - JURY ROOM EXPANSION**

D. For questions regarding this bid, please contact:

Michelle Braxton, Purchasing Manager
 P.O. Box 869
 Salem, VA 24153
 Telephone: 540-375-3063
 Fax: 540-375-4057
 Email: lmbraxton@salemva.gov

- E. **All questions and clarifications must be submitted by 3:00 p.m. on December 4, 2023.**
- F. All Bids must be signed by an authorized representative on the forms provided with this Bid. No changes are to be made to the Bid Form. Any changes to Bid amounts must be initialed.
- G. The City's procedures for withdrawal of bids (construction or other than construction) is that set forth in Section 2.2-4330 of the Virginia Code.
- H. Each Bidder is advised that the Ethics in Public Contracting and Conflicts of Interests Act of the Code of Virginia applies to this Bid. Such information should be provided with the Bid response.
- I. Failure to submit all required pages and information may result in the Bid to be non-responsive.
- J. It is the sole responsibility of the Bidder for any cost incurred in the preparation and submission of this Bid.
- K. A Bidder organized as a stock or non-stock corporation, limited company, business trust or limited partnership or registered as a registered limited liability partnership shall be authorized to transact business in the Commonwealth as a domestic or foreign business entity if so required by Title 13.1 or Title 50 of the Code of Virginia or as otherwise required by law. Any business entity described herein that enters into a Contract with the City pursuant to the Virginia Public Procurement Act 2.2-4300 et seq. shall not allow its existence to lapse or its certificate of authority or registration to transact business in the Commonwealth, if so required under Title 13.1 or Title 50 of the Code of Virginia, to be revoked or cancelled at any time during the term of the Contract. The City may void any Contract with a business entity if the business entity fails to remain in compliance with the provisions of this section. **Please contact the SCC to determine whether your firm should register.**
- L. **BID GUARANTEE:** Each bid must be accompanied by a bid guarantee which shall be not less than five percent (5%) of the largest amount of which BID is made and, at the option of the bidder, may be a certified check, bank draft, or bid bond. No bid will be considered unless it is so guaranteed. Certified check or bank draft shall be made payable to the City of Salem. Cash deposits will not be accepted. The bid guarantee shall insure the execution of the contract and the furnishing of performance and payment bonds by the successful bidder as required by the specifications.
- M. **MODIFICATION; WITHDRAWAL OF BIDS:** In accordance with withdrawal due to error in the bid, as specified in the latest edition of the City of Salem Purchasing Policy and Procedures Manual.
- N. **REJECTION OF BIDS:** The City of Salem reserves the right to reject any or all bids and to waive any informality in bids received whenever such rejection or waiver is in the interest of the City of Salem.
- O. **QUALIFICATIONS REQUIRED:** The ability of any bidder to obtain a performance bond shall be regarded as a test of such bidder's competency or responsibility. Any bidder must be prepared to present evidence of experience, ability and financial standing as well as an inventory of plant and equipment. The Successful Bidder must have a valid Virginia Class A Contractors License and must demonstrate at least 5 years of experience with similar projects.
- P. **PERFORMANCE/PAYMENT BONDS:** The bidder must be able to obtain a performance bond and payment bond in the amount of 100% of the bid estimate. This bond can be in the form of Letter of credit, Bank Insurance, or cash. Failure to obtain the performance bond will result in disqualification of the bid.

ITB # 2024-011**CITY OF SALEM COURTHOUSE - JURY ROOM EXPANSION****III. STATEMENT OF NEEDS/SPECIFICATIONS:**

Please refer to Attachment A, Summary of Work/Project Drawings.

IV. CONTRACT TIME:

WORK under this Agreement shall achieve Substantial Completion no later than Two Hundred Forty (240) consecutive calendar days after the commencement date given in a Notice to Proceed provided by the City to the Contractor, subject to any modifications made as provided for in the Contract Documents. This Two Hundred Forty (240) day period shall be the Period of Performance for Substantial Completion. No Work shall be deemed Substantially Complete until it meets the requirements of Substantial Completion as set forth in the General and Supplemental Conditions. Final Completion of the Work shall be completed no later than Thirty (30) calendar days after the date of acceptance of Substantial Completion by the City of Salem Project Representative. Work will not reach Final Completion until it meets the requirements set forth in the General and Supplemental Conditions. Unless otherwise provided, no claims for early completion are allowed

V. SUCCESSFUL BIDDER'S RESPONSIBILITY:

The Successful Bidder shall be responsible for the work to be done by any subcontractor(s) and shall assure compliance with all requirements of this Contract. The Successful Bidder shall be responsible for completely supervising and directing the work under this contract and all subcontractors that may be utilized.

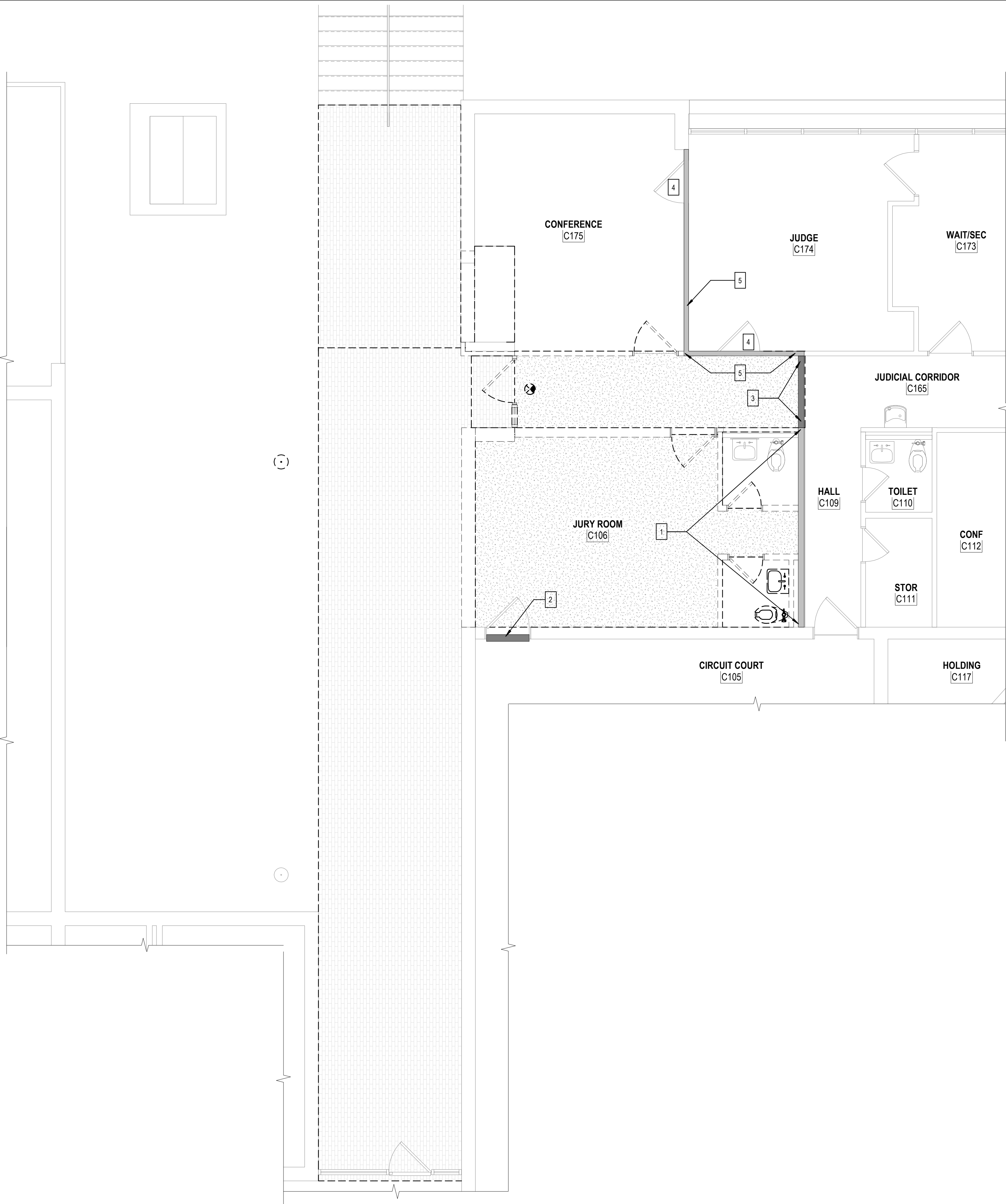
Subcontractor(s) who perform work under this Contract shall be responsible to the Successful Bidder. The Successful Bidder shall, however, remain fully liable and responsible for the work to be done by their subcontractor(s).

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ITB # 2024-011
CITY OF SALEM COURTHOUSE - JURY ROOM EXPANSION
ATTACHMENT A
SUMMARY OF WORK/PROJECT DRAWINGS

Reference the following pages for plans provided by Balzer & Associates Inc., dated August 30, 2023. Technical specifications are directly on the drawings, therefore, there is **NO** project manual.

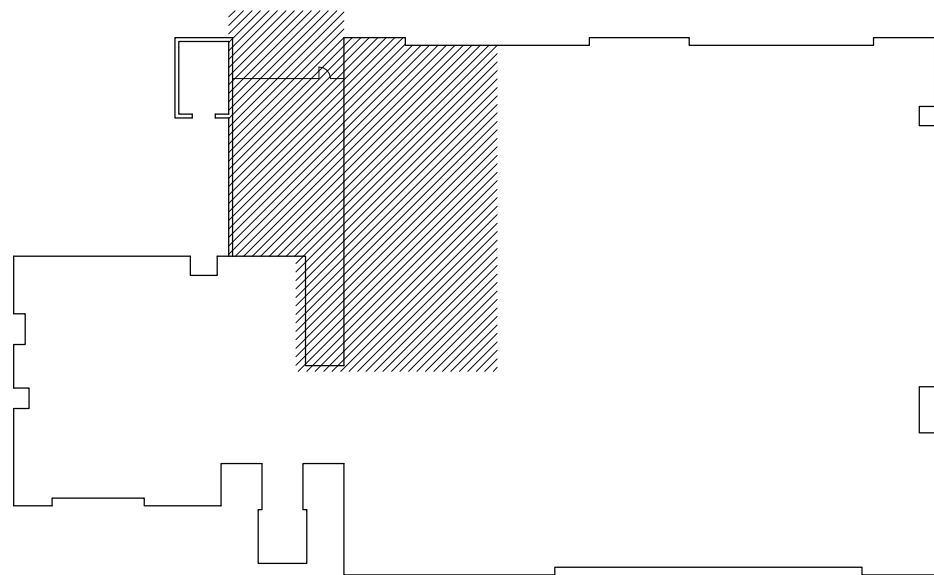
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TEMPORARY SECURITY MEASURES SCOPE OF WORK:

NOTE: ALL ITEMS NOTED TO BE PROVIDED BY CONTRACTOR UNLESS OTHERWISE NOTED

1. CONTRACTOR SHALL INSTALL A TEMPORARY PARTITION FROM TOP OF EXIST CMU WALL TO UNDERSIDE OF ROOF DECK, USING METAL STUDS WITH 1/2" PLYWOOD, SCREWED TO STUDS W/TAMPER-RESISTANT SCREWS.
2. CONTRACTOR SHALL INSTALL TEMPORARY LOCKING DOOR HARDWARE (LOCKED FROM WORK AREA EA SIDE) AND INSTALL TEMPORARY BARRIER ON COURTROOM SIDE OF DOOR USING METAL STUDS AND 1/2" PLYWOOD SHEATHING, SCREWED TO STUDS W/TAMPER-RESISTANT SCREWS.
3. CONTRACTOR SHALL INSTALL TEMPORARY PARTITION IN HALLWAY FROM FLOOR TO UNDERSIDE OF ROOF DECK, USING METAL STUDS WITH 1/2" PLYWOOD, SCREWED TO STUDS W/TAMPER-RESISTANT SCREWS.
4. EXISTING DOOR TO BE LOCKED BY OWNER (LOCKED ON CORRIDOR SIDE).
5. CONTRACTOR SHALL INSTALL A TEMPORARY PARTITION FROM TOP OF EXIST STUD WALL TO UNDERSIDE OF ROOF DECK, USING METAL STUDS WITH 1/2" PLYWOOD, SCREWED TO STUDS W/TAMPER-RESISTANT SCREWS.



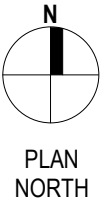
KEY PLAN

NOT TO SCALE

1
T1.03

TEMPORARY SECURITY PLAN

1/4" = 1'-0"



DIVISION 09 - ACOUSTIC CEILING TILE - ACT1

1. ACOUSTIC CEILING TILE SHALL MATCH EXISTING IN CORRIDOR, 12"x12"x3/4", WHITE COLOR, CLASS A FIRE RESISTANCE, INSTALLED IN CONCEALED SPLINE SYSTEM.
2. SUSPENSION SYSTEM TO BE INTERMEDIATE OR HEAVY-DUTY TYPE AS REQUIRED BY CEILING LOADS DUE TO LIGHT FIXTURES AND AIR DIFFUSERS. HANG INDEPENDENTLY OF WALLS, COLUMNS, DUCTS, PIPES, AND CONDUIT. NON-PERFORATED LAY-IN PANELS IN HIGH HUMIDITY AREAS.
3. LAY-IN SUSPENDED CEILING SYSTEMS SHALL COMPLY WITH REQUIREMENTS OF LISTED APPLICABLE CODES.
4. NO TILE SHALL BE LESS THAN SIX (6) INCHES IN ANY DIRECTION.
5. SEE SPECIFICATION BELOW FOR ADDITIONAL REQUIREMENTS.

DIVISION 09 - ACOUSTIC CEILING TILE - ACT2

1. ACOUSTIC CEILING TILE BASIS-OF-DESIGN SHALL BE ARMSTRONG "ULTIMA HIGH NRC" OR EQUAL, 24"x24"x3/4", BEVELED TEGULAR EDGE, WHITE COLOR, CLASS A FIRE RESISTANCE, NRC 0.70 OR GREATER, LIGHT REFLECTANCE 0.82, INSTALLED IN "ARMSTRONG PRELUDE XL EXPOSED TEE SYSTEM" OR EQUAL, 15'x16" WIDE, FLAT/FLUSH FACE DESIGN, PRE-FINISHED WHITE COLOR.
2. SUSPENSION SYSTEM TO BE INTERMEDIATE OR HEAVY-DUTY TYPE AS REQUIRED BY CEILING LOADS DUE TO LIGHT FIXTURES AND AIR DIFFUSERS. HANG INDEPENDENTLY OF WALLS, COLUMNS, DUCTS, PIPES, AND CONDUIT. NON-PERFORATED LAY-IN PANELS IN HIGH HUMIDITY AREAS.
3. LAY-IN SUSPENDED CEILING SYSTEMS SHALL COMPLY WITH REQUIREMENTS OF LISTED APPLICABLE CODES.
4. NO TILE SHALL BE LESS THAN SIX (6) INCHES IN ANY DIRECTION.
5. CROSS RUNNERS AND ALL MAIN RUNNERS NOT CONNECTED TO WALLS MUST BE INTERCONNECTED NEAR THE FREE END WITH A METAL STRUT SECURELY ATTACHED TO PREVENT SPREADING.
6. HANGER WIRES SHALL BE PROVIDED FOR ALL MAIN RUNNERS AND CROSS RUNNERS WITHIN 8" OF CEILING PERIMETERS.
7. HANGERS WIRES THAT ARE MORE THAN 1 IN 6 OUT OF PLUMB SHALL HAVE COUNTERBRACED WIRES.
8. CEILING GRID MAY BE ATTACHED TO 2 ADJACENT WALLS; THE CEILING MUST BE AT LEAST 1/2 INCH FREE OF OTHER WALLS. IF WALLS RUN DIAGONALLY TO CEILING GRID SYSTEM RUNNERS, ONE END OF MAIN AND CROSS RUNNERS SHALL BE FREE AND A MINIMUM OF 1/2 INCH CLEAR OF WALL.
9. A SET OF FOUR, 12 GAUGE SPLAY WIRES SHALL BE PROVIDED AT A SPACING NOT MORE THAN 12 FEET BY 12 FEET ON CENTER. FIRST SET OF SPLAY WIRES SHALL BE LOCATED NOT MORE THAN ONE HALF THE ABOVE DISTANCES FROM THE PERIMETER WALLS. WIRES SHALL BE TAUT WITHOUT CEILING LIFT. THE SLOPE OF THESE WIRES SHOULD NOT EXCEED 45° FROM THE PLANE OF THE CEILING. SPRUCE WIRES WILL NOT BE PERMITTED UNLESS PREVIOUSLY APPROVED.
10. ALL CEILING WIRES AND UNBRACED DUCTS, PIPES, AND SIMILAR INFRASTRUCTURE MUST BE SEPARATED.
11. ALL LIGHT FIXTURES SHALL BE POSITIVELY ATTACHED TO THE CEILING GRID TO RESIST A HORIZONTAL FORCE EQUAL TO THE WEIGHT OF THE FIXTURES.
12. FLUSH OR RECESSED LIGHT FIXTURES AND AIR TERMINALS OR SERVICES WEIGHING LESS THAN 56 POUNDS MAY BE SUPPORTED ON HEAVY DUTY GRID BUT MUST HAVE 2 #12 GA SLACK SAFETY WIRES FROM DIAGONAL CORNERS TO THE STRUCTURE ABOVE.
13. FLUSH OR RECESSED LIGHT FIXTURES AND AIR TERMINALS OR SERVICES WEIGHING MORE THAN 56 POUNDS MUST BE INDEPENDENTLY SUPPORTED BY NOT LESS THAN 4 TAUT #12 GA WIRES CAPABLE OF SUPPORTING 4 TIMES THE LOAD.
14. PROVIDE TRAPEZE OR OTHER SUPPLEMENTARY SUPPORT MEMBERS AT OBSTRUCTIONS TO MAIN HANGER SPACING. PROVIDE ADDITIONAL HANGERS, STRUTS OR BRACES AS REQUIRED AT CEILING BREAKS, SOFFITS OR DISCONTINUOUS AREAS.
15. SURFACE MOUNTED LIGHT FIXTURES SHALL BE SUPPORTED BY AT LEAST TWO POSITIVE DEVICES WHICH SURROUND THE CEILING RUNNER AND ARE SUPPORTED TO THE STRUCTURE ABOVE WITH A #12 GA WIRE. ROTATIONAL SPRING CLIPS ARE NOT ACCEPTABLE.
16. PENDANT MOUNTED LIGHT FIXTURES SHALL BE SUPPORTED DIRECTLY TO THE STRUCTURE ABOVE WITH HANGER WIRES THROUGH EACH PENDANT CAPABLE OF SUPPORTING 4 TIMES THE LOAD.
17. HANGER WIRES MUST BE FASTENED WITH NOT LESS THAN 3 TIGHT TURNS. SPLAY WIRES MUST HAVE 4 TIGHT TURNS FOR A #12 GAUGE. MAKE ALL TURNS TIGHT WITHIN 1 1/2".
18. PROVIDE FLUSH ACCESS PANELS IN GYPSUM BOARD CEILINGS AS REQUIRED. PAINT TO MATCH CEILING. COORDINATE LOCATIONS & SIZES WITH MECHANICAL, PLUMBING AND ELECTRICAL REQUIREMENTS.
19. PROVIDE EXTRA STOCK OF 5% OF EACH ACOUSTICAL MATERIAL INSTALLED, CLEARLY MARKED TO INDICATE CONTENTS AND LOCATION USED.

DIVISION 10 – SPECIALTIES - TOILET ACCESSORIES

1. TOILET ACCESSORIES SHALL BE FURNISHED AND INSTALLED AS INDICATED ON DRAWINGS (SHEET A1.01). SUBMIT PRODUCT DATA FOR APPROVAL BY OWNER PRIOR TO INSTALLATION. MOUNTING AND INSTALLATION OF ACCESSORIES TO BE COMPLIANT WITH ANSI-A117 2009 REQUIREMENTS.

DIVISION 10 – SPECIALTIES - CANOPIES

1. PREMANUFACTURED ALUMINUM ENTRY CANOPY.
2. CANTILEVERED, ENTRY DOOR CANOPY OF EXTRUDED ALUMINUM COMPONENTS, FLAT-SOFFIT DECKING, WITH SOFFIT LIGHT, INTEGRAL DRAINAGE SYSTEM, KYNAR FINISH IN DARK BRONZE. BASIS OF DESIGN IS MASA "EXTRUDECK."

DIVISION 11 – KITCHEN EQUIPMENT

1. ALL KITCHEN EQUIPMENT SHALL BE PROVIDED BY CONTRACTOR.

DIVISION 12 – WINDOW TREATMENTS

1. PROVIDE DRUM ROLLER SHADES AT LOCATIONS INDICATED. MANUAL SHADES SHALL BE CLUTCH AND CHAIN. MOTORIZED SHADES SHALL BE CONNECTED TO BUILDING POWER AND SWITCHED IN THE ROOM WHERE INSTALLED WITH MULTIPLE PRESET STOPS. FABRIC SHALL BE 5% OPENESS LIGHT FACTOR FILTERING PVC-COATED FIBERGLASS.

DIVISIONS 15 THRU 20 (NOT USED)

- DIVISION 21 – FIRE SUPPRESSION (SEE MECHANICAL AND PLUMBING SHEETS FOR ADDITIONAL INFORMATION)
1. CONTRACTOR SHALL DESIGN AND FURNISH A COMPLETE FIRE SUPPRESSION SYSTEM COMPLYING WITH ALL APPLICABLE LAWS AND ORDINANCES.

- DIVISION 22 – PLUMBING (SEE MECHANICAL AND PLUMBING SHEETS FOR ADDITIONAL INFORMATION)

DIVISION 23 – HEATING, VENTILATING, AND AIR CONDITIONING (SEE MECHANICAL AND PLUMBING SHEETS FOR ADDITIONAL INFORMATION)

1. ALL MECHANICAL AND PLUMBING DESIGNS, CONSTRUCTION, MATERIALS AND WORKMANSHIP SHALL COMPLY WITH ALL PROVISIONS OF THE CURRENT GOVERNING CODE, AS A MINIMUM LEVEL OF CONSTRUCTION DETAIL AND QUALITY.
2. PROVIDE VENTILATION FANS TO OUTSIDE FOR ALL TOILETS AND JANITOR ROOMS. OPERATION TO ACTIVATE WHEN LIGHT IS SWITCHED.
3. HOT WATER AT TAPS SHALL BE MAINTAINED WITH A RANGE OF 105-120 DEGREES FAHRENHEIT.
4. INSULATE ALL ABOVE GRADE WATER SUPPLY PIPING WITH 1/2" FIBERGLASS OR NEOPRENE PIPE COVERING.
5. PRESSURE TEST ALL WATER LINES WITH 100 PSI FOR LEAKS, AND GRAVITY TEST ALL SANITARY LINES WITH TEN FOOT (10'-0") STANDING HEAD (OR AS DIRECTED BY THE BUILDING OFFICIAL).
6. VACUUM BREAKERS ARE REQUIRED AT ALL HOSE BIBS AND ANY OUTLET OR CONNECTION SUBJECT TO BACKFLOW.
7. PROVIDE SHUT-OFF VALVE AT EACH FIXTURE AND EQUIPMENT CONNECTION FOR FUTURE SERVICE AND REMOVAL. PROVIDE ACCESS PANELS AS REQUIRED IN SOLID WALLS OR CEILINGS.
8. HOT WATER LINES AND EXPOSED DRAIN LINES ARE TO BE INSULATED IN ACCORDANCE WITH ADA REQUIREMENTS.

DIVISION 24 (NOT USED)

DIVISIONS 25 – INTEGRATED AUTOMATION (NONE)

DIVISION 26 – ELECTRICAL (SEE ELECTRICAL SHEETS FOR ADDITIONAL INFORMATION)

1. ALL ELECTRICAL DESIGNS, CONSTRUCTION, MATERIALS AND WORKMANSHIP SHALL COMPLY WITH ALL PROVISIONS OF THE CURRENT GOVERNING CODE, AND THE CURRENT EDITION OF THE NATIONAL ELECTRIC CODE (NEC), AS A MINIMUM LEVEL OF CONSTRUCTION DETAIL AND QUALITY.

- DIVISION 27 – COMMUNICATIONS (SEE ELECTRICAL SHEETS FOR ADDITIONAL INFORMATION)

- DIVISION 28 – ELECTRONIC SAFETY AND SECURITY (SEE ELECTRICAL SHEETS FOR ADDITIONAL INFORMATION)

DIVISION 29 THRU 30 (NOT USED)

DIVISION 32 – STEEL FENCE

1. BASIS OF DESIGN IS "MONTAGE COMMERCIAL" BY AMERISTAR, WITH 1 1/2" 14 GA STEEL CHANNEL RAILS AND PICKETS MADE UP OF 3/4" X 14 GA STEEL TUBING. PANELS AND POSTS SHALL BE SUBJECTED TO AN INLINE ELECTRODE POSITION COATING (E-COAT) PROCESS, FOLLOWED BY A DUPLEX APPLICATION OF AN EPOXY PRIMER AND AN ACRYLIC TOPCOAT. THE MINIMUM CUMULATIVE COATING THICKNESS OF EPOXY AND ACRYLIC SHALL BE 2 MILS (0.058 MM). THE COLOR SHALL BE BLACK.

DIVISION 33 – UTILITIES (SEE CIVIL SHEETS FOR ADDITIONAL INFORMATION)

1. GENERAL CONTRACTOR SHALL WORK WITH OWNER TO OBTAIN REQUIRED UTILITIES TO PROJECT SITE (IF NOT ALREADY PRESENT) AND WILL NOTIFY OWNER IN WRITING WITHIN TEN (10) DAYS OF REQUIRED DATE(S) WHEN UTILITIES MUST BE AVAILABLE FOR WORK TO BE COMPLETED.



BALZER & ASSOCIATES

PLANNERS / ARCHITECTS
ENGINEERS / SURVEYORS

Roanoke / Richmond
Shenandoah Valley
New River Valley / Lynchburg

www.balzer.cc

1208 Corporate Circle

Roanoke, VA 24018

540.772.9580



SALEM COURTHOUSE

JURY ROOM EXPANSION

OUTLINE SPECIFICATIONS

2 EAST CALHOUN STREET
SALEM, VIRGINIA 24153

| | |
|-------------|-------------|
| DRAWN BY | CJ/MFK |
| DESIGNED BY | RWP |
| CHECKED BY | RWP |
| DATE | 08/30/2023 |
| SCALE | 12" = 1'-0" |
| REVISIONS | |

T2.02

PROJECT NO

03220052.00



BALZER & ASSOCIATES
PLANNERS / ARCHITECTS
ENGINEERS / SURVEYORS

Roanoke / Richmond
Shenandoah Valley
New River Valley / Lynchburg

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1208 Corporate Circle

Roanoke, VA 24018

540.772.9580



Accessibility Diagrams Disclaimer

This set of ICC/ANSI A117.1-2009 standards has been indicated here for general reference purposes only. In no way does this sheet represent all applicable components of the "Accessible and Usable Buildings and Facilities" National Standard. For clarifications, accompanying texts, descriptions, or interpretations refer to the national standard code. The excerpts from the national standard indicated here have been included for their relevance to this project and are not to be construed as a complete and exhaustive list. For any dimensional discrepancies, please consult the Architect.

GENERAL ACCESSIBILITY NOTES

- General**
- Reference 2015 Virginia Construction Code (VCC) and International Code Council (ICC) A117.1-2009 edition for section numbers and as the base for notes and diagrams.
 - General contractor shall provide handicap code compliant men's and women's room signage. Signs shall be mounted on exterior side (if shown on interior elevations) and shall include the international symbol of accessibility.
 - Grab bars shall not rotate within their fittings and shall be installed to withstand a load of 250 lbs. or greater.
 - Primary entrances and required exit access and exits to or from buildings and facilities shall be made accessible to the public way.
 - Every required entrance or passage doorway shall be of a size as to permit the installation of a door not less than 3 feet in width and not less than 6 feet 8 inches in height. Doors shall be capable of opening at least 90 degrees and shall be so mounted that the clear width of the doorway is not less than 32 inches.
 - Latching and locking doors that are hand activated and which are in a path of travel, shall be operable with a single effort by lever type hardware, panic bars, push-pull activating bars, or other hardware. This hardware should be designed to provide passage without requiring the ability to tightly grasp, pinch, or require twisting of the wrist to operate the hardware.
 - Hand activated door opening hardware shall be centered between 34 inches and 48 inches above the floor.
 - The floor or landing on each side of an entrance or passage door shall be level (less than 2 percent slope) and clear. The level and clear area shall have a length in the direction of door swing of at least 60 inches and the length opposite the direction of door swing of 48 inches as measured at right angles to the plane of the door in its closed position.
 - The width of the level (less than 2 percent slope) and clear area on the side to which the door swings shall extend 24 inches past the strike edge of the door for a latch approach and 42 inches for a reach approach and 18" for a front approach. Provide 12 inches of additional space if door is equipped with both a latch and a closer.
 - The floor or landing shall be no more than 1/2 inch lower than the threshold of the doorway change in level between 1/4 inch and 1/2 inch shall be beveled with a slope no greater than 1:2.
 - Floor surfaces shall be constructed of slip-resistant materials to meet local code.
 - Grab bars shall be:
 - Non-rotating having 1/8 inch minimum edge radius.
 - Not projecting more than 3 inches into required clear floor space.
 - Shall be non-rusting non-slip with 1-1/4 inches to 2 inches outside diameter with 1-1/2 inches clearance from wall mounted.
 - Wall reinforcement for grab bars shall be installed in compliance with all applicable codes, including ICC/ANSI A117.1-2009.
 - The top of fire alarm initiating devices (boxes) shall be located 48 inches above the level of the floor working platform, ground surface or sidewalk.
 - Tops of light switches, environmental controls, locks, and electrical outlets shall be mounted no higher than 48 inches above finished floor and no lower than 18 inches (to top) above finished floor.
 - All controls in accessible spaces must meet clear floor requirements.

Kitchens

- Accessible washers and dryers (where called for) shall comply with accessible reach requirements as defined in section 611 in ICC/ANSI A117.1-2009.
- Door pulls and handles shall be mounted within the reach distances defined in ICC/ANSI A117.1-2009.
- Refrigerator/freezers shall comply with section 804.6.6 in ICC/ANSI A117.1-2009.
- Floor clearances at each kitchen appliances shall comply with section 804 in ICC/ANSI A117.1-2009.
- Cabinets, drawer, shelf storage areas shall:
 - Have door pulls mounted as close to bottom of the upper cabinets as possible.
 - Have door pulls mounted as close to top of base cabinets as possible.
 - Have drawer pulls mounted as close to top of the drawer as possible.
- Ranges (where called for) shall have controls which do not require reaching across burners and ovens shall have controls on front.
- Range hood controls (where a range hood is called for) should be remote located to the wall on one side of the range in line with the counter backsplash outlets.
- Dishwashers shall have rack space accessible from front of machine for loading and unloading.

Plumbing

- Water supply and drainpipes under lavatories and sinks shall be insulated or otherwise configured to protect against contact. There shall be no sharp abrasive surfaces under lavatories and sinks.
- Rough-in plumbing shall be located, insulated, or guarded to provide clear open knee space.
- Provide at least one accessible lavatory.
- Faucet 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. Lever operated push type and electronically controlled mechanisms are examples of acceptable designs. Self-closing valves are allowed if the faucet remains open for at least 10 seconds.
- Flush controls for toilets (and urinals when applicable) shall be mounted on the wide side of the toilet, no higher than 44 inches above finished floor.

Stairs and ramps

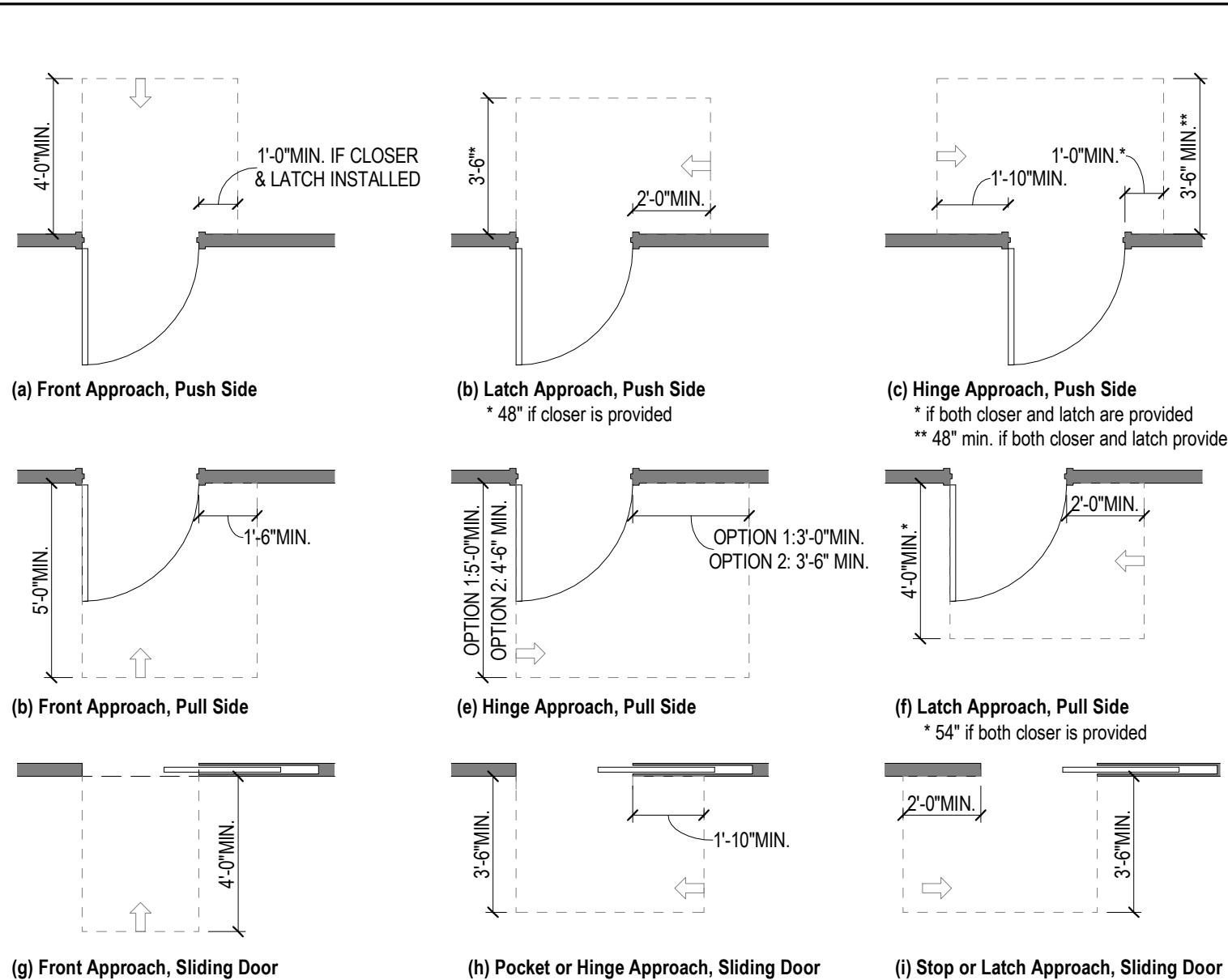
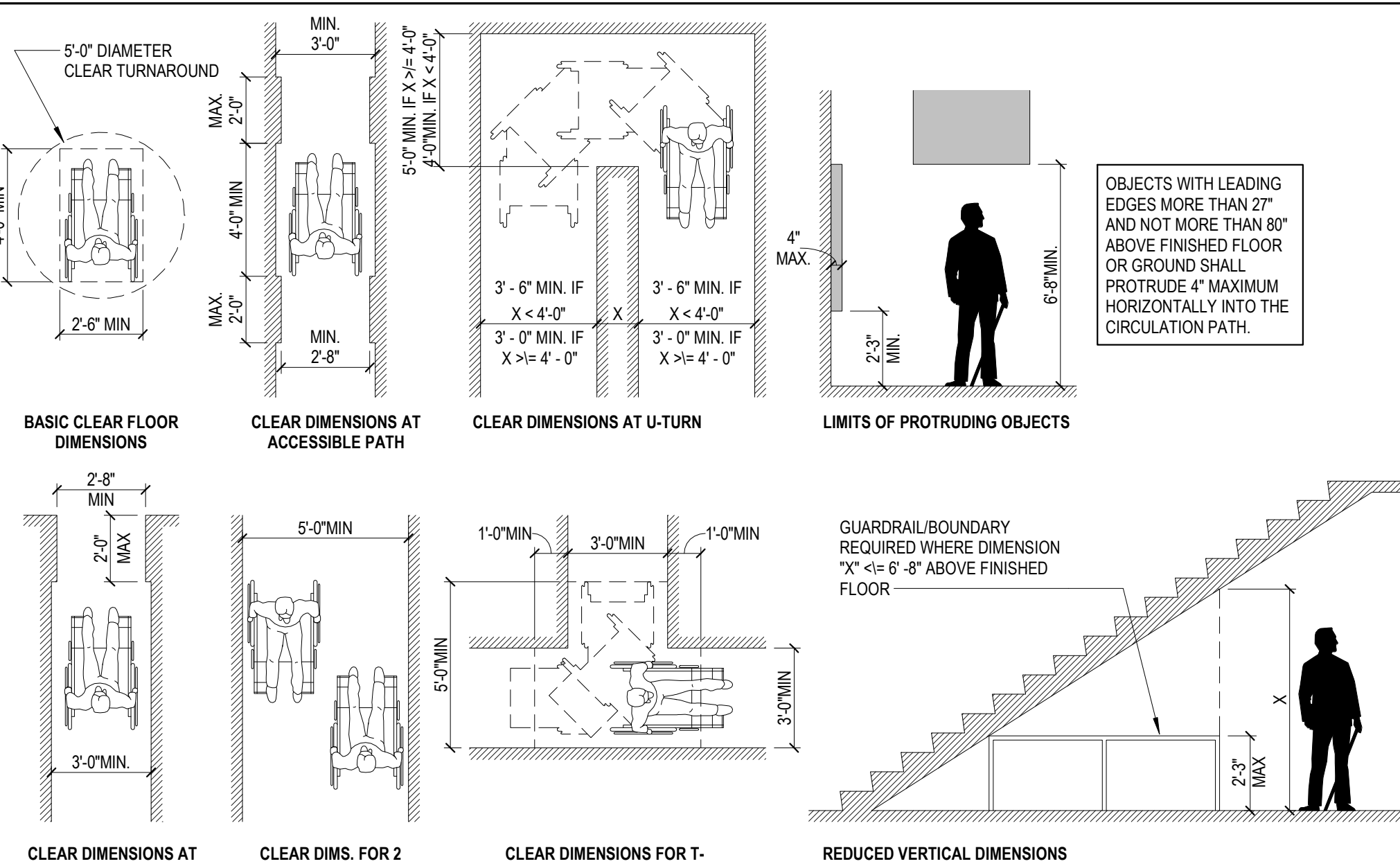
- The maximum slope of a ramp that serves as exit way, provides access or is in the path of travel shall be 8 percent maximum (1 foot rise in 12 feet of horizontal run).
- Access ramp runs with a rise greater than 6 inches but not to exceed the 1:12 (8 percent) slope are required to have handrails.
- Handrails shall be placed on each side of each ramp, shall be continuous the full length of the ramp, shall be 34 inches to 48 inches above the ramp surface, shall extend a minimum of 1 foot beyond the top and bottom of the ramp, and the ends shall be returned to a wall, guard, or floor.
- Handrails projecting from a wall shall have a space of not less than 1-1/2 inches between the wall and the handrail.
- All stairs shall have handrails. Handrails shall be 38 inches maximum above nosing, shall extend 12 inches horizontally beyond top riser and one tread beyond the bottom riser.
- Handrail ends shall be returned to wall, guard, or the landing surface.
- Nosing shall not project more than 1-1/2 inches past the face of the riser below. Risers shall be sufficiently solid to prevent the passage of objects larger than 4 inches.
- The leading 2 inches of treads shall have a visual contrast of dark-on-light or light-on-dark from the remainder of the tread.
- Stair treads and landings subject to wet conditions shall be designed to prevent the accumulation of water.
- Provide stair level identification signs at each floor level landing in all enclosed stairways adjacent to the door leading from the stairwell into the corridor to identify the floor level (ICC 504.9). The exit discharge door shall have a sign with raised characters and braille stating "EXIT".

Site

- See civil, landscape architect and/or architectural drawings for accessible building entrance on accessible route.
- See civil, landscape architect and/or architectural drawings for accessible, public, and common use areas.
- Walks and sidewalks subject to these regulations shall have a continuous common surface, not interrupted by steps or by abrupt changes in level exceeding inch and shall be a minimum of 48 inches in width.
- Surfaces with a slope of 5 percent gradient or greater, including ramps, shall be slip-resistant (room finish).
- Surface cross slopes shall not exceed 2 percent (1/4 inch per foot).

Door Signage

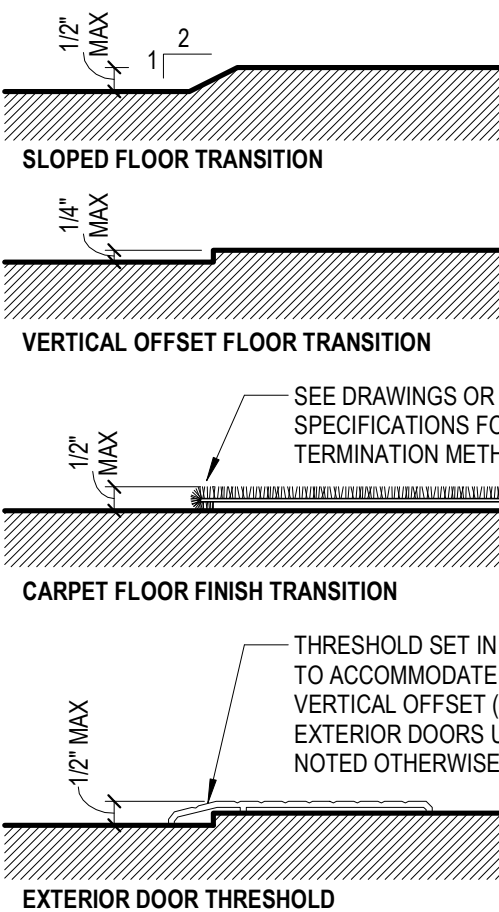
- Where a sign containing raised characters and braille is provided at a door, the sign shall be alongside the door at the latch side.
 - Where a sign containing raised characters and braille is provided at double doors with one active leaf, the sign shall be located on the inactive leaf.
 - Where a sign containing raised characters and braille is provided at double doors with two active leaves, the sign shall be to the right of the right-hand door.
 - Where there is no wall space on the latch side of a single door, or to the right side of double doors, signs shall be on the nearest adjacent wall. Signs containing raised characters and braille shall be located so that a clear floor area 18 inches minimum by 18 inches minimum, centered on the raised characters is provided beyond the arc of any door swing between the closed position and 45-degree open position.



ACCESSIBLE MANEUVERING CLEARANCES

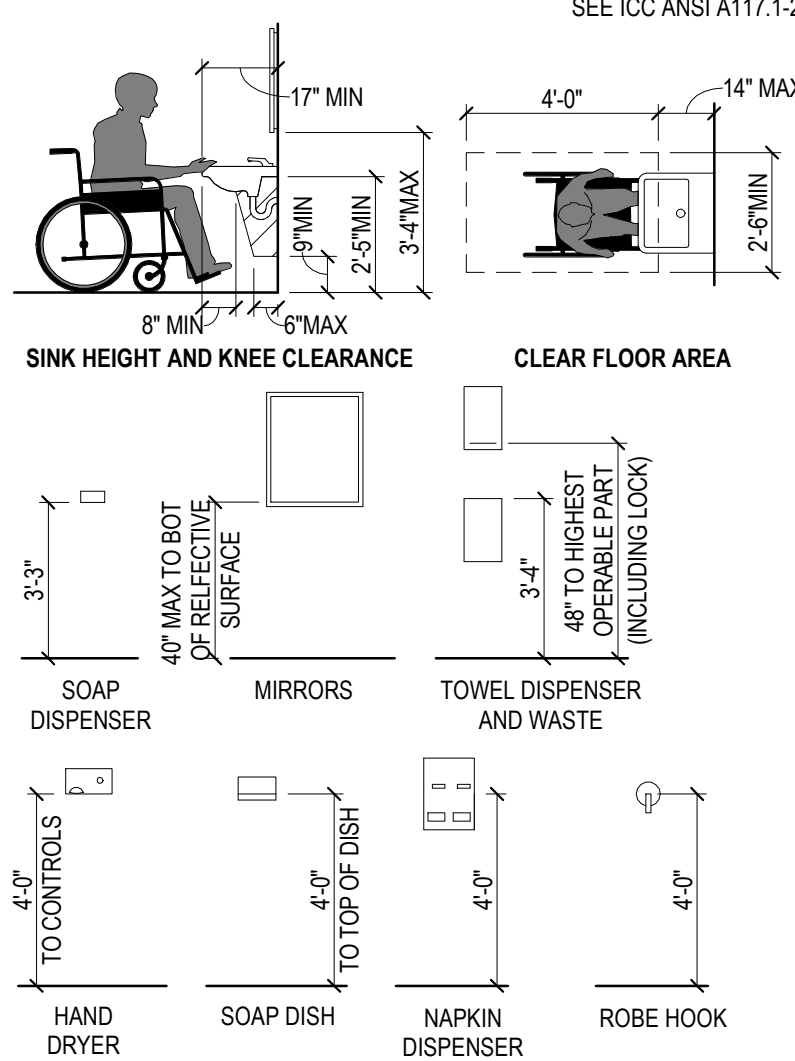
SEE ICC ANSI A117.1-2009 SECTION 404 FOR ADDITIONAL REQUIREMENTS

SEE ICC ANSI A117.1-2009 SECTION 404 FOR ADDITIONAL REQUIREMENTS

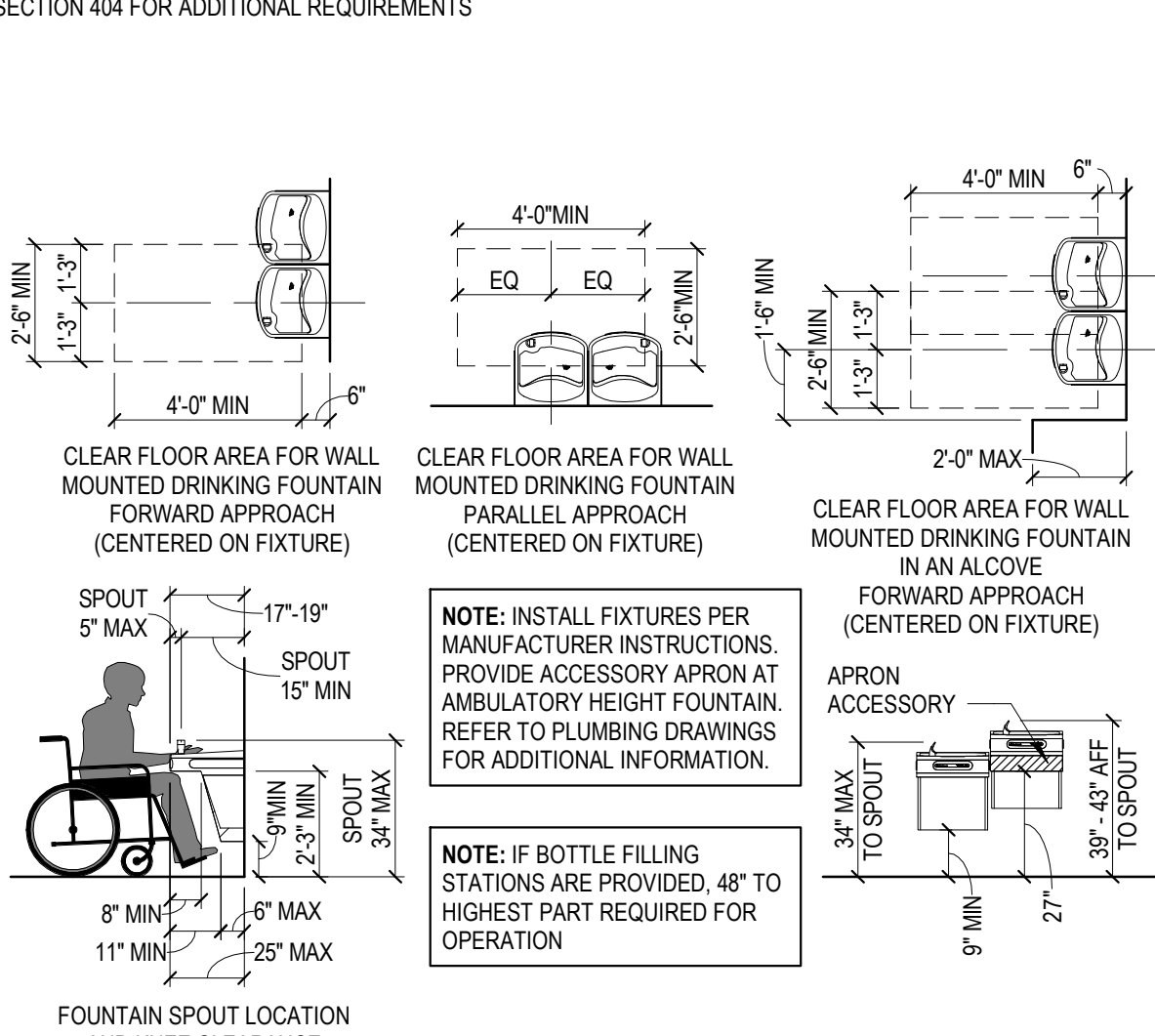


ACCESSIBLE FLOOR TRANSITIONS

SEE ICC ANSI A117.1-2009 SECTION 302 FOR ADDITIONAL REQUIREMENTS

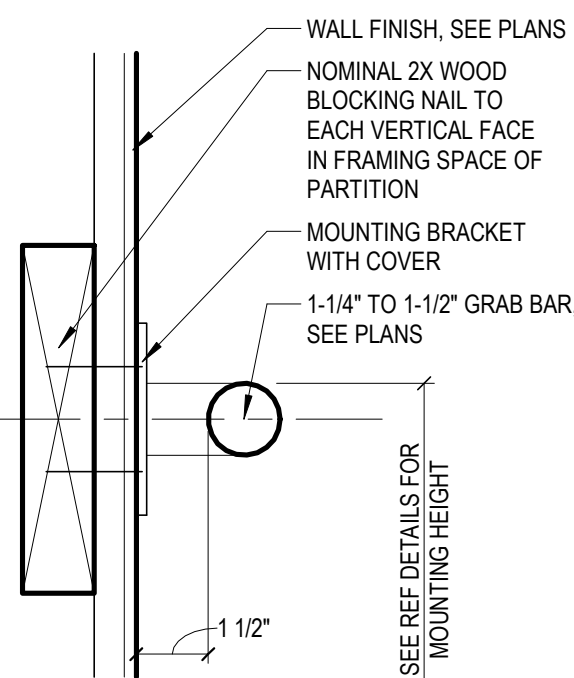


LAVATORY STANDARDS



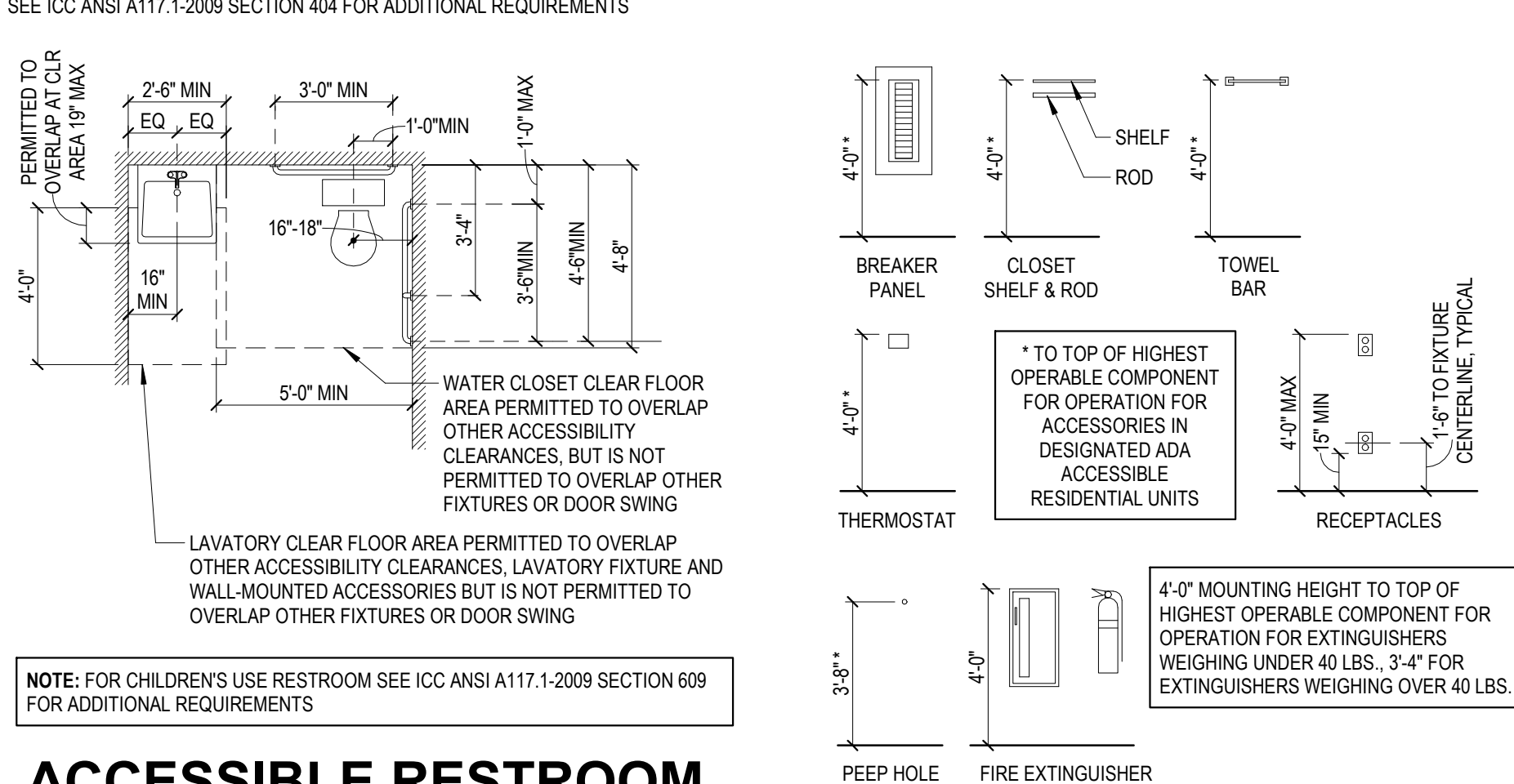
FOUNTAIN ACCESSIBILITY

SEE ICC ANSI A117.1-2009 SECTION 602 FOR ADDITIONAL REQUIREMENTS



GRAB BAR DETAIL

SEE ICC ANSI A117.1-2009 SECTION 505 FOR ADDITIONAL REQUIREMENTS

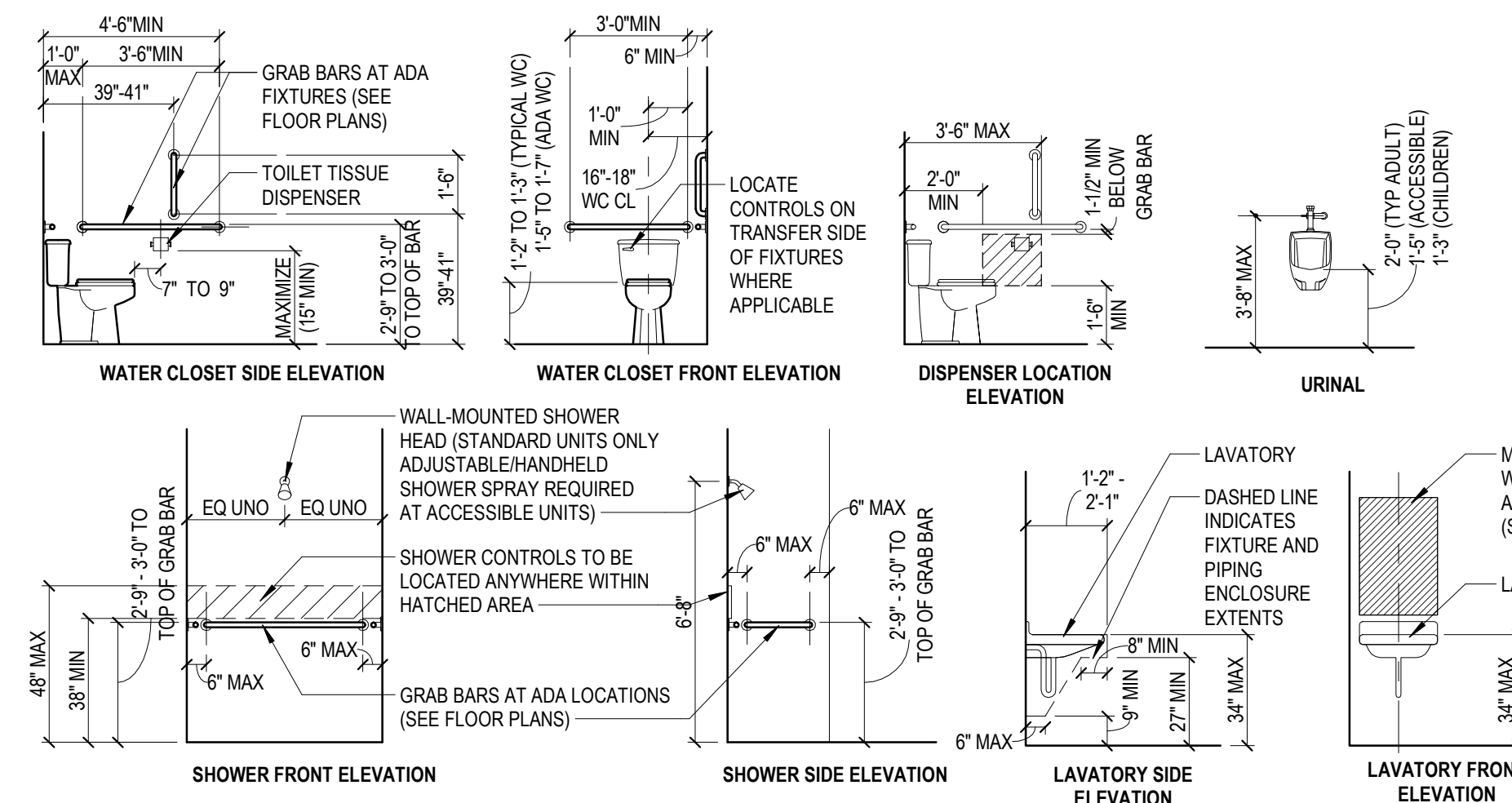


ACCESSIBLE RESTROOM STANDARDS

SEE ICC ANSI A117.1-2009 SECTION 603 AND 604 FOR ADDITIONAL REQUIREMENTS

ADDITIONAL STANDARDS

SEE ICC ANSI A117.1-2009 FOR ADDITIONAL REQUIREMENTS



ACCESSIBLE PLUMBING FIXTURES

SEE ICC ANSI A117.1-2009 CHAPTER 6 FOR ADDITIONAL REQUIREMENTS

SALEM COURTHOUSE

JURY ROOM EXPANSION

ADA REFERENCE DETAILS

2 EAST CALHOUN STREET
SALEM, VIRGINIA 24153

DRAWN BY

CJ/MFK

DESIGNED BY

RWP

CHECKED BY

RWP

DATE

08/30/2023

SCALE

As indicated

REVISIONS

T3.01

PROJECT NO

03220052.00

**BALZER & ASSOCIATES**PLANNERS / ARCHITECTS
ENGINEERS / SURVEYORSRoanoke / Richmond
Shenandoah Valley
New River Valley / Lynchburg**www.balzer.cc**

1208 Corporate Circle

Roanoke, VA 24018

540.772.9580

**SALEM COURTHOUSE**
JURY ROOM EXPANSION
DEMOLITION PLAN & NOTES2 EAST CALHOUN STREET
SALEM, VIRGINIA 24153DRAWN BY **CJ/MFK**
DESIGNED BY **RWP**
CHECKED BY **RWP**
DATE **08/30/2023**
SCALE **As indicated**
REVISIONS**GENERAL DEMOLITION NOTES**

- CONCRETE FLOORS SHALL BE REMOVED FOR INSTALLATION AND CONNECTION OF NEW PLUMBING. PATCH WITH 3,000 PSI CONCRETE.
- SEE LIMITS OF CONSTRUCTION ON NEW FLOOR PLANS. GENERALLY, ROOMS OUTSIDE OF LIMITS OF CONSTRUCTION ARE NOT TO HAVE ANY WORK DONE IN THEM WITH THE EXCEPTION OF FLOOR OR CEILING TO BE PATCHED OR REPAIRED FOR INSTALLATION OF NEW WORK. CONTRACTOR SHALL USE EXISTING FLOOR OR CEILING MATERIAL FOR REPAIR. SALVAGED FROM AREAS WHERE EXISTING MATERIALS ARE REMOVED OR ALL NEW MATERIAL IN A ROOM IF NECESSARY THAT MATCH EXISTING FINISHES.
- ALL EXISTING DIMENSION NOTES ON THIS PLAN ARE APPROXIMATE. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING DIMENSIONS PRIOR TO NEW WORK. IF THE CONTRACTOR FINDS ANY DISCREPANCY BETWEEN EXISTING CONDITION AND DRAWING, CONTRACTOR MUST NOTIFY THE ARCHITECT IMMEDIATELY AND REQUEST CLARIFICATION.
- CONTRACTOR MUST REMOVE EXISTING FINISHES AS NECESSARY PRIOR TO INSTALLATION OF NEW FINISHES.
- ALL FLOORS AND WALLS OF EXISTING AREAS THAT WILL BE AFFECTED BY CONSTRUCTION PROCEDURES INCLUDING DEBRIS REMOVAL MUST RECEIVE PROTECTION. DUST BARRIERS MUST BE INSTALLED BETWEEN WORK AREAS, UNDISTURBED AREAS AND OCCUPIED SPACES. PROVIDE TEMPORARY SHORING OF EXISTING STRUCTURE ABOVE AS REQUIRED WHERE ANY EXISTING LOAD BEARING ELEMENTS (OR PORTION OF) ARE TO BE REMOVED AS REQUIRED BY FLOOR PLAN; PROVIDE NEW HEADER/STRUCTURE/INFILL PER NEW FLOOR PLAN; REPAIR/PATCH WALLS/FLOOR/CEILING AS REQUIRED.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES, INCLUDING BUT NOT LIMITED TO: TEMPORARY/PERMANENT BEAMS AND LINTELS; SHORING OF EXISTING CONSTRUCTION; AND FOR SAFETY PRECAUTIONS AND PROGRAMS AS THEY RELATE TO THE WORK OF THIS PROJECT.
- ALL DEMOLISHED MATERIAL SHALL BE REMOVED FROM SITE UNLESS NOTED OTHERWISE.

GENERAL DEMOLITION NOTES

- DRAWINGS OF EXISTING CONDITIONS HAVE BEEN COMPILED FROM EXISTING DATA SUPPLIED BY THE OWNER AND BASED ON FIELD INVESTIGATIONS. THE ARCHITECT MAKES NO WARRANTY EITHER EXPRESSED OR IMPLIED, FOR THE ACCURACY OR COMPLETENESS OF THE EXISTING INFORMATION RECORDED. VERIFY ALL EXISTING CONDITIONS. NOTIFY ARCHITECT OF ANY DISCREPANCIES FOR CLARIFICATION PRIOR TO PROCEEDING WITH WORK.
- MOST DEMO ITEMS HAVE BEEN NOTED ON PLAN. IT IS THE GENERAL CONTRACTOR'S RESPONSIBILITY TO DEMOLISH ANY ITEMS NOT NECESSARILY NOTED BUT INTENDED TO BE REMOVED, AND PREPARE EXISTING ITEMS TO REMAIN FOR NEW WORK. PROVIDE ALL NECESSARY BARRICADES AND OTHER FORMS OF PROTECTION AS REQUIRED TO PROTECT THE GENERAL PUBLIC FROM INJURY DUE TO DEMO WORK.
- WHERE ITEMS ARE TO BE REMOVED THE CONTRACTOR SHALL BE CAUTIONED NOT TO DAMAGE ITEMS THAT ARE TO BE RETAINED BY OWNER OR RELOCATED. ALL EXPOSED OR DAMAGED AREAS, AFTER REMOVAL OF ITEMS, SHALL BE REPAIRED.
- DEMOLITION WORK WILL BE GOVERNED BY THE EXTENT OF NEW CONSTRUCTION INVOLVED. CONTRACTOR WILL VERIFY AND COORDINATE DEMOLITION WORK WITH RESPECT TO THE NEW CONSTRUCTION. CONTRACTOR TO VERIFY EXISTING CONDITIONS BEFORE START OF WORK.
- REMOVAL OF EXISTING EQUIPMENT, PIPING, DUCTS, AND SIMILAR UTILITIES SHALL INCLUDE ALL ANCHORS, HANGERS, AND OTHER ACCESSORIES. AFTER REMOVAL, FLOORS, WALLS AND CEILINGS SHALL BE FINISHED TO MATCH ADJOINING SURFACES OR SHALL BE PREPARED TO RECEIVE NEW FINISHES AS INDICATED IN THE NEW FINISH SCHEDULE. MAINTAIN EXISTING FINISHES AS NOTED ON THE NEW FINISH SCHEDULE.
- MATCH THICKNESS OF EXISTING WALL AND CEILING FINISH MATERIAL WHERE PATCHING AND REPAIRING IS REQUIRED.
- COORDINATE DEMOLITION PLANS WITH PLANS FOR NEW CONSTRUCTION FOR EXTENT OF REMOVAL. REMOVE ONLY THOSE PORTIONS OF WALLS AND FLOORS NECESSARY TO ACCOMMODATE NEW CONSTRUCTION. TAKE REASONABLE CARE IN REMOVAL OF ITEMS TO BE RELOCATED AND REUSED.
- CONTRACTOR SHALL CHECK ALL EXISTING CORRIDOR WALLS IN THOSE AREAS OF RENOVATION FOR OPENINGS. ANY OPENINGS SHALL BE CLOSED TIGHT AS REQUIRED. TO MATCH EXISTING CONSTRUCTION AND TO MAINTAIN NEW OR EXISTING WALL RATING. THIS IS TYPICAL FOR ALL WORK DONE IN AREAS WHERE RENOVATION IS BEING DONE.
- ALL WALLS SHOWN BY DASHED LINES ARE TO BE REMOVED COMPLETELY, ALONG WITH DOORS AND FRAMES. ELECTRICAL ITEMS, PLUMBING FIXTURES, CASEWORK, AND SIMILAR INFRASTRUCTURE.

GENERAL TEMPORARY WORK NOTES

- LOCATE TEMPORARY WALLS WITH EXIT SIGNS WHERE REQUIRED. DO NOT BLOCK EXISTING FIRE EXITS. THE CONTRACTOR SHALL CONTACT THE OWNER'S REPRESENTATIVE BEFORE ERECTING TEMPORARY PARTITIONS. FOR COORDINATION OF THESE WALLS - REFER TO THE PLANS FOR LOCATIONS OF TEMPORARY WALLS.

GENERAL CONTINUOUS OPERATION NOTES

- ENSURE THAT DEMOLITION WORK DOES NOT INTERFERE WITH OR PROHIBIT THE CONTINUING OCCUPATION OF ADJACENT OPERATIONS WITHIN THE STRUCTURE. THIS INCLUDES BUT IS NOT LIMITED TO THE SELECTIVE DEMOLITION OF PARTITIONS, ELECTRICAL AND MECHANICAL SYSTEMS. INFORM THE OWNER A MINIMUM OF 72 HOURS OF DEMOLITION ACTIVITIES THAT WILL AFFECT NORMAL OPERATION OF THE BUILDING.
- ALL WORK SHALL BE SCHEDULED IN A MANNER TO MAINTAIN THE OWNERS CONTINUOUS USE OF THE BUILDING.

GENERAL FIRE RATING DEMOLITION NOTES

- OPENINGS TO BE CLOSED IN EXISTING FIRE OR SMOKE WALLS SHALL BE PATCHED TO MATCH EXISTING CONSTRUCTION AND TO MAINTAIN THE INTEGRITY OF THE WALL. TYPICAL FOR ALL WORK DONE IN AREAS WHERE NEW WORK IS BEING DONE.

GENERAL STRUCTURAL DEMOLITION NOTES

- THESE DEMOLITION PLAN DRAWINGS ARE INTENDED TO SHOW THE GENERAL CONDITIONS WHICH ARE EXPECTED TO OCCUR. VERIFY ALL CONDITIONS BEFORE PROCEEDING WITH THE DEMOLITION WORK. WHERE DISCREPANCIES INVOLVE STRUCTURAL ITEMS, REPORT SUCH DIFFERENCES AND SECURE INSTRUCTIONS BEFORE PROCEEDING IN THE AFFECTED AREA.
- DEMOLITION ITEMS SHOWN ARE INTENDED TO BE NON-STRUCTURAL ITEMS ONLY. THE GENERAL CONTRACTOR SHALL INSPECT ALL ITEMS TO BE DEMOLISHED PRIOR TO DEMO TO ENSURE ITEMS ARE NOT STRUCTURAL ELEMENTS. NOTIFY ARCHITECT/ENGINEER IMMEDIATELY AND PRIOR TO DEMOLITION FOR ANY ITEMS THAT APPEAR TO BE STRUCTURAL/LOAD-BEARING.
- A PROFESSIONAL ENGINEER SHALL BE CONSULTED IN ALL CASES WHERE CUTTING INTO AN EXISTING STRUCTURAL PORTION OF ANY BUILDING IS EITHER EXPEDIENT OR NECESSARY. PRIOR TO PROCEEDING WITH WORK, PRIOR TO CUTTING INTO STRUCTURAL PORTIONS OF ANY BUILDING SHALL PROVIDE REINFORCEMENT AND/OR SUPPORT SATISFACTORY TO THE PROFESSIONAL ENGINEER.

GENERAL MECHANICAL, ELECTRICAL AND PLUMBING DEMOLITION NOTES

- IT IS THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE ARCHITECT AND COORDINATE INSPECTIONS (IF REQUIRED) BY STATE AGENCIES AND MEET ANY APPLICABLE CODE FOR REUSE OF EXISTING PLUMBING FIXTURES, DIFFUSERS AND DUCTWORK.
- REMOVE ALL EXISTING NON-COMPLIANT GROUND-FAULT CIRCUIT INTERRUPTED OUTLETS.
- REMOVE ALL EXISTING BROKEN OR PAINTED OUTLET COVER PLATES.
- AFTER REMOVAL OF PLUMBING FIXTURES, CAP WASTE LINES BELOW FLOOR SLAB AND SUPPLY LINES ABOVE CEILING.
- AT ALL AREAS WHERE MECHANICAL, PLUMBING AND ELECTRICAL EQUIPMENT IS REMOVED, PROPERLY CAP AND TERMINATE ALL UTILITIES AS REQUIRED BY ALL PREVAILING NATIONAL AND LOCAL CODES.

HAZARDOUS MATERIALS NOTES

- ANY HAZARDOUS MATERIALS REMOVED (ASBESTOS, OIL, GAS, LEAD-BASE PAINT, OR SIMILAR HAZARDS) SHALL BE COMPLETELY REMOVED FROM WORK AREAS AND DISPOSED OF OFF-SITE. DISPOSAL SHALL BE DONE IN A MANNER COMPLIANT WITH ALL LOCAL, STATE AND FEDERAL LAWS AND ALL GOVERNING BODIES HAVING JURISDICTION.

- THE OWNER SHALL PROVIDE AN ASBESTOS INSPECTION REPORT.
- SEE SURVEY FOR ASBESTOS-CONTAINING MATERIALS FOR LOCATIONS OF ANY MATERIALS THAT WILL BE DISTURBED AS PART OF DEMOLITION WORK. ANY MATERIALS THAT ARE DISTURBED OR REMOVED DURING DEMOLITION PROCESSES SHALL BE REMOVED FROM SITE AND DISPOSED OF IN A MANNER THAT MEETS ALL FEDERAL, STATE AND LOCAL LAWS AND REGULATIONS.

- THE OWNER SHALL PROVIDE A LEAD-BASED PAINT INSPECTION REPORT.

GENERAL REPAIR NOTES

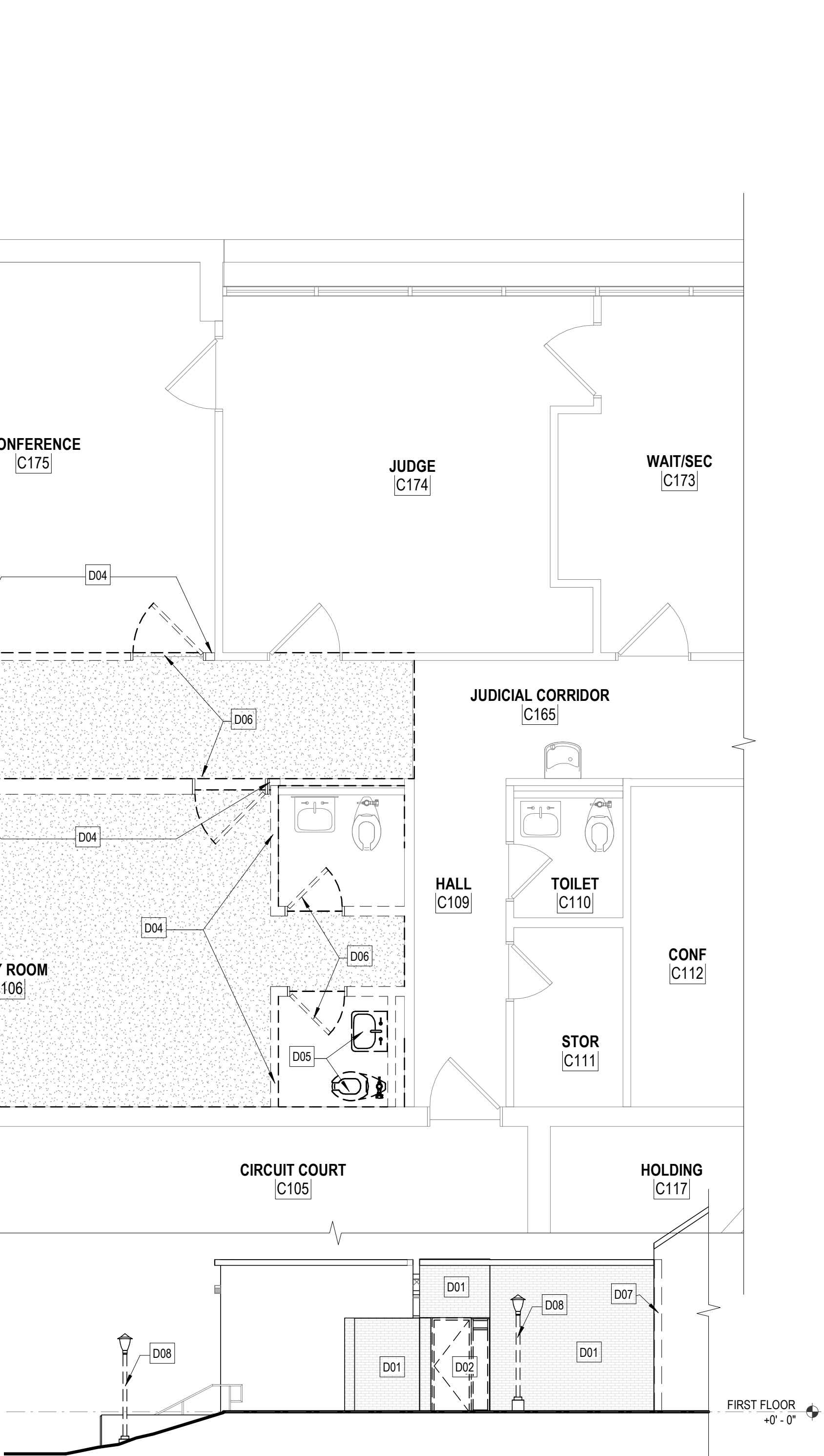
- REPAIR DAMAGES CAUSED TO ADJACENT FACILITIES BY DEMOLITION WORK.
- REPAIR DRYWALL WHERE CASEWORK AND TRIM ARE REMOVED.
- MAINTAIN CONTINUITY OF FINISHED SURFACE WITH LIKE QUALITIES AND CONSTRUCTION AND WITH LIKE FINISHES.
- RESTORE EXPOSED FINISHES OF PATCHED AREAS AND WHERE NECESSARY EXTEND FINISH RESTORATION INTO RETAINED ADJOINING WORK IN A MANNER WHICH WILL ELIMINATE EVIDENCE OF PATCHING AND REFINISHING.
- DO NOT CUT AND PATCH WORK IN A MANNER THAT WOULD RESULT IN SUBSTANTIAL VISUAL EVIDENCE OF CUT AND PATCH WORK.
- USE MATERIALS FOR CUTTING AND PATCHING THAT ARE IDENTICAL TO EXISTING MATERIALS.
- COORDINATE ALL DEMOLITION AND RESTORATION WORK WITH OWNERS. USE MATERIALS FOR PATCHING THAT ARE IDENTICAL TO EXISTING MATERIALS.
- RESTORE EXPOSED FINISHES OF PATCHED AREAS AND WHERE NECESSARY EXTEND FINISH RESTORATION INTO RETAINED ADJOINING WORK IN A MANNER WHICH WILL ELIMINATE EVIDENCE OF PATCHING AND REFINISHING.

GENERAL DEMOLITION FINISH NOTES

- PATCH AND REPAIR TO MATCH EXISTING CEILINGS, FLOORS, OR WALL FINISHES AFFECTED BY DEMOLITION WORK UNLESS OTHERWISE NOTED ON THE PLANS. NEW WORK TO HAVE SMOOTH AND LEVEL TRANSITION WITH THE EXISTING CONSTRUCTION.
- ALL ABANDONED FLOOR PENETRATIONS SHALL BE PATCHED WITH LIKE MATERIALS AND REPAIRED TO MATCH EXISTING CONSTRUCTION AND TO MAINTAIN FLOOR INTEGRITY.
- ANY ITEMS REMOVED BY CONTRACTOR FROM WALLS TO HAVE THE REMAINING HOLE PATCHED TO MATCH THE EXISTING CONSTRUCTION.
- PROVIDE A SKIM COAT OF GYPSUM PLASTER TO SMOOTH OUT WALL BEFORE INSTALLING NEW WALL BASE OR PAINTING AN EXISTING WALL.
- REPLACE DAMAGED CEILING TILE AND CEILING GRIDS WITH NEW TILE AND GRID TO MATCH EXISTING. PATCH AND REPAIR GYP. BD. CEILINGS AS REQUIRED FOR NEW WORK.

GENERAL SALVAGE NOTES

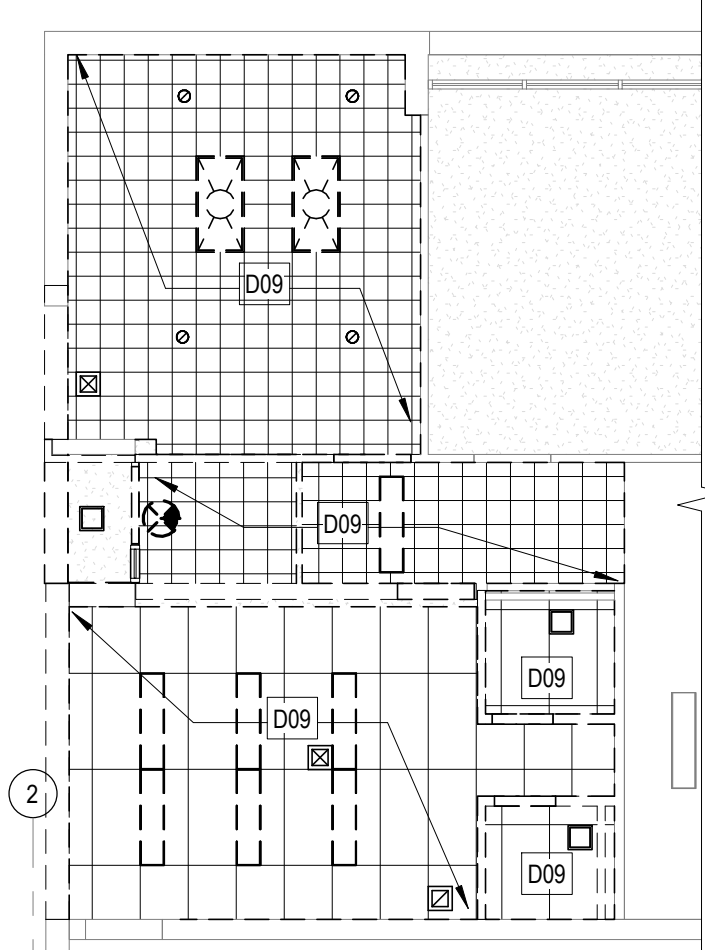
- SALVAGE AND REUSE AND/OR RECYCLE MATERIALS AS NOTED IN CONSTRUCTION DRAWINGS AND CONTRACTS.
- COORDINATE WITH THE OWNERS REPRESENTATIVE THE SALVAGE OF LIGHT FIXTURES, FURNISHINGS, DOORS, AND MISCELLANEOUS EQUIPMENT.
- CARE SHALL BE TAKEN IN REMOVAL OF REUSED ITEMS THAT CAN BE RELOCATED. RETURN TO OWNER ALL OTHER ITEMS.
- ALL ITEMS WHICH ARE HUNG ON WALLS TO BE DEMOLISHED (BULLETIN BOARDS, ILLUMINATORS, FIRE EXTINGUISHERS, ETC.) SHALL BE OFFERED TO THE OWNER. ITEMS NOT DESIRED BY THE OWNER SHALL BE REMOVED BY THE GENERAL CONTRACTOR.
- GENERAL CONTRACTOR SHALL COORDINATE WITH OWNER FOR ANY MATERIAL BEING REMOVED THAT ARE TO BE STORED FOR REUSE IN CONSTRUCTION OR FUTURE USE BY OWNER.

**2 DEMO ELEVATION**

D1.01 1/8" = 1'-0"

DEMOLITION NOTES

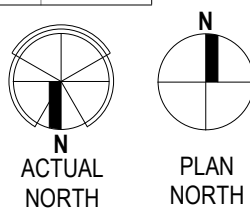
| | |
|-----|--|
| D01 | REMOVE PORTION OF WALL |
| D02 | REMOVE STOREFRONT |
| D03 | REMOVE BRICK PAVERS |
| D04 | REMOVE PORTION OF INTERIOR WALL |
| D05 | REMOVE PLUMBING FIXTURES |
| D06 | REMOVE DOORS |
| D07 | REMOVE BRICK FROM PORTION OF EXTERIOR WALL |
| D08 | REMOVE STREETLIGHT, SALVAGE FOR REUSE |
| D09 | REMOVE CEILING, LIGHTS, AND GRILLES |
| D10 | REMOVE CONCRETE SLAB FLOOR |

**3 DEMO RCP**

D1.01 1/8" = 1'-0"

1 FIRST FLOOR DEMOLITION PLAN

D1.01 1/4" = 1'-0"

**KEY PLAN**

NOT TO SCALE

D1.01

PROJECT NO

03220052.00

| | | |
|---|--|------------------------------------|
| DESIGN ALLOWABLE SOIL BEARING CAPACITY: | | 1500 psf (ASSUMED) |
| DEAD LOADS: | | |
| ROOF DEAD LOAD: | | 20 psf |
| <u>UNREDUCED LIVE LOADS:</u> | | |
| ROOF LIVE LOAD: | | 20 psf |
| SNOW LOADS: | | |
| GROUND SNOW LOAD: | | 30 psf |
| FLAT ROOF SNOW LOAD: | | 21 |
| SNOW EXPOSURE FACTOR: | | 1.0 |
| IMPORTANCE FACTOR: | | 1.0 |
| THERMAL FACTOR: | | 1.0 |
| UNBALANCED SNOW LOADING: | | 30 psf |
| MAXIMUM DRIFT SURCHARGE: | | REFER TO ROOF FRAMING PLAN |
| <u>WIND LOAD DESIGN CRITERIA:</u> | | |
| ANALYSIS PROCEDURE: | | ASCE 7-16 CHAPTER 27 |
| BUILDING TYPE: | | ENCLOSED |
| ULTIMATE DESIGN WIND SPEED: | | 115 mph |
| NOMINAL DESIGN WIND SPEED: | | 89 mph |
| RISK CATEGORY: | | II |
| EXPOSURE: | | B |
| INTERNAL PRESSURE COEFFICIENT: | | ±0.18 |
| TOTAL BUILDING WIND SHEAR (N-S): | | 3 kips |
| TOTAL BUILDING WIND SHEAR (E-W): | | 2 kips |
| <u>EFFECTIVE WIND PRESSURES:</u> | | |
| COMPONENTS & CLADDING: | | |
| ROOF: | | |
| CORNER ZONE 3: | | +16.0 / -38.4 psf |
| EDGE ZONE 2: | | +16.0 / -32.2 psf |
| INTERIOR ZONE 1: | | +16.0 / -24.2 psf |
| OVERHANG: | | |
| CORNER ZONE 3: | | -32.5 psf |
| EDGE ZONE 2: | | -26.3 psf |
| WALL: | | |
| CORNER ZONE 5: | | +16.6 / -20.3 psf |
| INTERIOR ZONE 4: | | +16.6 / -18.2 psf |
| <u>SEISMIC LOADS:</u> | | |
| RISK CATEGORY: | | II |
| IMPORTANCE FACTOR: | | 1.0 |
| MAPPED SPECTRAL ACCELERATION: | | $S_a=0.23$ |
| | | $S_1=0.06$ |
| SITE CLASS: | | D |
| SITE CLASS COEFFICIENT: | | $F_a=1.60$ |
| | | $F_v=2.40$ |
| | | $S_{DS}=0.06$ |
| | | $S_{D1}=0.24$ |
| SPECTRAL RESPONSE COEFFICIENT: | | B |
| SEISMIC DESIGN CATEGORY: | | ORDINARY PLAIN MASONRY SHEAR WALLS |
| FORCE RESISTING SYSTEM: | | |
| | | R=1.5 |
| RESPONSE MODIFICATION COEFFICIENT: | | $C_s=0.14$ |
| SEISMIC RESPONSE COEFFICIENT: | | W=5,910 lbs |
| EFFECTIVE SEISMIC WEIGHT: | | V=830 lbs |
| DESIGN BASE SHEAR: | | EQUIV. LATERAL FORCE |
| ANALYSIS PROCEDURE: | | |

1. Structural steel shall be in accordance with the following specifications:
 - a. Wide flange shapes: ASTM A992 (fy = 50 ksi)
 - b. Angles, channels, plates, bars, misc. shapes: ASTM A36 (fy = 36 ksi)
 - c. Pipes columns: ASTM A500, Grade C (fy = 50 ksi)
 - d. Square and rectangular tubing: ASTM A1085 (fy = 50 ksi)
 - e. High strength bolts: ASTM A325 or A490 as specified

- f. Common (non-high strength) bolts: ASTM A307 (Grade A)
 - g. Threaded rod: ASTM A36 (or proprietary rods as specified)
 - h. Shear headed studs: ASTM A108
 - i. "Cold headed", etc. in structural steel members required by ASTM A108: ASTM A154 Grade 36 or Grade 55 weldable
 - j. Welding electrodes: E7018
 - k. Power driven fasteners: Hilti HX 10, 0.157"Ø or equal
 - l. Self driving screws: Hilti X-Max, Simpson Strong Drive XM, or Tekes
2. Structural steel work and erection shall be in accordance with the 2015 International Building Code, 14th Edition AISC 360 "Manual of Steel Construction", and AISC "Code of Standard Practice", including the "Code Book" and supplements.
3. Shop drawings are required for structural steel and steel joists and decking. Shop drawings shall be furnished by the Fabricator to the General Contractor. Contractor shall review and approved shop drawings prior to submitting to Architect/Engineer. All structural steel shop drawings shall be prepared under the direct supervision of professional engineer registered in the Commonwealth of Virginia.
4. Structural steel shall be new, clean and straight.
5. "Cold headed", etc. in structural steel members required by order of other trades shall be made in the shop and shall be shown on the shop drawings. Burning of holes or cuts in structural steel members in the field will not be permitted without specific approval of the engineer.
6. All structural steel exposed to elements shall be galvanized or receive one shop coat of an approved rust-inhibitive primer. Reference architectural drawings for additional paint and finish requirements on exposed steel members.
7. Refer to architectural drawings for intumescent paint, spray-on fireproofing, or other special coatings.
8. Existing steel members shall be properly cleaned and painted for protection.
9. Preparation of steel and application of coatings shall be in accordance with the specifications of the Society for Protective Coatings (SSPC).
10. All shop connections shall be welded and all field connections shall be bolted using high strength bolts and washers. All high strength bolt diameters shall be called out on plans. All bolted connections designed to be installed to a snug-tight condition in standard holes unless otherwise noted.
11. Provide hardened washers shall be provided under turning element at all high strength bolted connections.
12. All steel in contact with pressure treated lumber or exposed to weather shall be at minimum galvanized with a G185 coating. When galvanized steel is welded provide appropriate ventilation measures. Welded steel shall be ground smooth and free of scale prior to galvanizing.
13. Stainless steel shall be used for fasteners and steel in contact with galvanized rebar. All other locations subject to salt water, including atmospheric water vapor and spray from de-icing salts.
14. All welding shall be in accordance with AWS D1.1 2010, Structural Welding Code. Welds to be approved by a welding inspection agency. All shop and field welding shall be performed by qualified welders in accordance with AWS D1.1.
15. All welded surfaces shall be cleaned, ground smooth, and coated with appropriate primer/paint as specified.
16. Beams supporting columns or struts and beams bearing on columns shall be provided with stiffener angles, tees or plates on webs.
17. Connections for hung lintels and other members requiring adjustment shall be provided with shims or slotted holes, as required for proper final installation.
18. Unless otherwise noted, all field connections shall be bearing type, non slip-critical, tightened to a "snug tight condition" as defined by AISC.
19. All truss connections shall be shop welded and shall be designed for the factored/ultimate forces shown on the contract drawings, but not less than 50% of the effective strength of the member. Shop drawings shall clearly show weld sizes and lengths for all connections. Provide gusset plates as required to obtain full member strength. Gusset plate thickness shall meet the following:
20. Bolting in combination with welds shall not be considered as sharing the stress. Welds shall be provided to carry the entire stress of which the connection is designed.
21. The frame of the steel skeleton shall be carried up true and plumb and temporary bolting and bracing shall be introduced to safely carry all loads to which the structure may be subjected, including equipment and operation of same. Internal columns must be braced before beam connections are made and bracing shall be in place as long as columns are being braced. No bracing shall be done until as much of the structure as will be stiffened thereby has been properly aligned.
22. The owner shall retain the services of a qualified inspector to inspect erected steel and connections.
23. All powder actuated fasteners to be used in structural steel shall be as listed with a minimum length sufficient to fully penetrate base member thickness (not less than 3"8").
24. All steel framing members shall be anchored and braced by Johnson & Barnard, inc., or equal, vertically on all steel column flanges and webs and horizontally on all beam webs and flanges or encased in masonry. See "Typical Masonry Anchoring System Details".
25. See architectural drawings for steel plate and grade floor finishing specifications. Steel plate grating shall be manufactured in accordance with the Metal Bar Grating Manual, as published by the National Association of Architectural Metals Manufacturers and shall conform to Federal Specification RR-G-661E, "Steel for grating shall conform to ASTM A36/A36M. Perpendicular welded cross bars shall be spaced 4" on center. Stair tread grating shall be same type. Band exposed edges, unless noted otherwise. Grating and fasteners shall be hot dipped galvanized, unless noted otherwise.

1. Corrugated cold formed steel deck design, fabrication, and installation of shall comply with the Steel Deck Institute (SDI), "Code of Standard Practice" (SDI COSP-2012).
2. Metal deck shall be designed, detailed, and installed in accordance with the Steel Deck Institute Standards SDI C-2011 (Composite deck), SDI R-2010 (Non-composite), and SDI RD-2010 (roof).
3. Provide supplier's shop drawings for all built uped levels containing metal deck.
4. Unless noted otherwise on structural plans, all metal deck is designed to be installed in a continuous 3-span or greater condition. Refer to Design Load tables for required deck performance requirements.
5. Refer to structural drawings for shear stud sizes, spacing, and attachment details at structurally composite concrete floor slabs as applicable.
6. Refer to architectural drawings for any finish, waterproofing, soundproofing, or fireproofing details or requirements which may apply.
7. Steel roof deck shall be rib type prefabricating steel steel units. Type 1.5B (or as called out on roof framing plan), 22 gauge and 1/2" deep. Installation shall be in accordance with manufacturer's written instructions. Provide diaphragm attachment as specified on structural plans. Roof deck shall be provided as painted or galvanized.
8. Deck for concrete slabs supported on structural steel or steel joists shall be prefabricated units of corrugated steel sheet. Depth of deck shall be as called out on roof framing plan(s). Deck shall be galvanized or receive one coat of shop paint.
9. Composite floor deck shall be 1/12" minimum depth with embossed ribs. Deck shall conform to ASTM A1008 or ASTM A563 for galvanized deck.
10. Unless noted otherwise, metal deck for support of concrete floor slabs has been designed for unfactored condition on structural drawings, prior to placing concrete. Provide any additional fasteners, pour stops, closure plates, or filler sheets as required to minimize deck deformation and loss of concrete during placement operation.
11. On open steel roof, see architectural and mechanical drawings. Provide steel framing as required, whether or not shown on structural drawings, when more than 1 lb in ft in steel deck and for all openings exceeding 8". This applies to roof drains, sump pans, large pipes, sleeves, etc. See typical opening details.
12. Supply valley plates, hip/ridge plates, filler sheets, and/or flat cover plates as required to provide a complete closed metal roof diaphragm prior to application of roof insulation and membrane. Refer to architectural drawings for roof details.
13. All framing for support of mechanical equipment or for mechanical openings must be verified by mechanical contractor for size and location prior to submission of shop drawings.

- Existing steel components are to remain in place, except as shown on demolition plans for new openings. Existing corroded, bent, or deteriorated steel members shall be reinforced or replaced in the field as conditions require. Contractor shall notify engineer of questionable members discovered not noted on plans for further direction.
- Existing steel members shall be properly cleaned and painted for protection.
- Existing steel materials shall be investigated for suitability for welding. Cast iron or other non-weldable metals shall be brought to the attention of the structural engineer for alternate repair or replacement details.
- Deteriorated, out-of-plumb, cracked, or damaged columns shall be replaced/repared as required.
- Corroded or broken bolts and rivets shall be brought to the attention of the structural engineer where not noted on plans for connection and field details.
- Standbolt or waffle bruce surface rust from existing steel members. Any section loss $>1/8"$ in thickness shall be brought to the attention of the structural engineer.
- New steel plates, angles, bars, or other reinforcing elements shall be in accordance with material specifications given above.
- Typical repair details and notes shall be applied to the full extent of all damaged existing steel members. General notes for contractor shall coordinate with steel erector for full extent of repair work.
- Steel erector chosen for repair and rehabilitation of existing metal construction shall be experienced in the materials and methods of historic metal work.

| | | |
|----|---|---|
| 1. | Materials for concrete construction shall be in accordance with the following specifications: | |
| a. | Unit weight: | Normal weight (145-150 pcf) |
| b. | Portland cement: | ASTM C150 Type 1 |
| c. | Coarse and Fine Aggregate: | ASTM C33 max size 3/4" |
| d. | Water: | ASTM C1602 potable |
| e. | Cementitious Admixtures: | ASTM C618 Flyash ASTM C989 Ground granulated blast furnace slag |
| f. | Chemical Admixtures: | ASTM C260 Air-Entrainment ASTM C494 Plasticizers, Water Reducers, High Early Strength, etc |
| g. | Reinforcing steel: | ASTM A615, Grade 60 deformed billet steel bars ASTM A185 Welded Wire Reinforcement using ASTM A62 wire ASTM A418 7-wire steel strand for prestressed concrete (270 ksi) |
| h. | Embedded fiber reinforcing: | ASTM C1116 Standard spec for fiber reinforced concrete ASTM A820 Steel fibers ASTM C1666 Glass fibers |
| i. | Adhesive anchoring: | Hilti HIT-HY 200 Safe Set System or <u>approved</u> equal Hilti HIT-Z Rod (ICC ESR 3187) or <u>approved</u> equal |
| j. | Concrete screws: | Hilti KWIK On II+ or Simpson Titen or <u>approved</u> equal |
| k. | Heavy duty screw anchors: | Hilti KWIK Bolt-Z or Simpson Titen HD |
| l. | Expansion / wedge type anchors: | Hilti KWIK Bolt-Z or Simpson Strong Bolt 2 or <u>approved</u> equal |
| m. | Shdn'tite: | ASTM C436 |

2. Other agents, components, admixtures, and/or embedded items as approved by Engineer
3. All concrete materials, processes, and work shall be in accordance with ACI 318-14 "Building Code Requirements for Structural Concrete" ACI 318-10 "Specifications for Structural Concrete", and ASTM C94, unless otherwise noted or specified on the contract drawings.
4. All exterior concrete slabs exposed to traffic shall be 4000 psi. All concrete slabs, on-grade or on suspended metal deck, shall be 3500 psi. Footings for walls and columns, and all other concrete, shall be 3000 psi. Refer to structural drawings for additional notes and use highest strength mix where discrepancies occur.
5. All concrete exposed to freezing and thawing shall have an entrained air content of 6% ($\pm 1.5\%$). C94, unless otherwise noted or specified on the contract drawings.
6. Refer to the "Requirements for Concrete by Exposure Class" and referenced exposure class definitions for maximum water/cementitious materials (w/c) ratio, minimum design strength, entrained air content, and other constituent restrictions for this project.
7. Contractor shall submit a concrete mix design for each type of concrete to the project Architect for approval prior to the placement of concrete.
8. Refer to the "Requirements for Mockup Samples of all exposed architectural concrete elements as Directed by the Architect."
9. All reinforcing steel shall be deformed bars of new billet steel conforming to specification listed above.

1. In case of conflict between the general notes, specifications, and drawings regarding structural issues, the most stringent requirements shall govern.
2. Structural drawings shall be used in conjunction with the architectural, mechanical, electrical, & plumbing specifications, as well as any additional drawings provided by material & equipment suppliers. Contractor shall be responsible for coordinating the work of all other trades with the structure.
3. This structure is considered unstable until all structural components are in place, fastened, plumbed, true, and in accordance with these signed and sealed drawings. Contractor shall be responsible for furnishing, erecting, and removing any temporary shoring and bracing during construction.
4. Contractor shall strictly adhere to all safety regulations. The architect/engineer shall not be responsible for any accidents, injuries, methods, or procedures for safety precautions in connection with the work.
5. Construction materials, equipment, or other heavy loads shall not be placed upon structural components in concentrated areas. Construction material or equipment staging shall not impart loads to the structure greater than that shown in the design load schedule.
6. Work not indicated on a part of the drawings, but reasonably implied to be similar to that shown at corresponding pieces, shall be repeated.
7. Temporary bracing, sheathing, shoring, etc., required to ensure the structural integrity/stability of the existing structure and to facilitate construction during construction is the Contractor's responsibility and shall be designed by a Professional Engineer licensed in the Commonwealth of Virginia.
8. Shop Drawings:
 - Shop drawings for materials shall be submitted to the Architect for review prior to the start of fabrication or commencement of work.
 - No portion of the contract drawings may be reproduced for submittal as shop drawings unless approved by the Owner and the Architect, in writing. Violation of this provision will result in the rejection of the shop drawings and will be returned without being reviewed by the Architect or Structural Engineer.
 - Shop drawings shall bear the General Contractor's stamp of approval, which shall constitute certification that he has verified all field measurements, construction criteria, materials, and similar data and has checked each drawing for completeness, coordination, and compliance with the contract documents. Shop drawings not approved by the General Contractor prior to submittal will be rejected.
 - Changes to shop drawings that are re-submitted must be clouded or otherwise clearly indicate the changes that have been made to a previously issued and reviewed drawing.
 - The Contractor shall provide the Architect or Structural Engineer with written notice of deviations of any type from the requirements of the Construction Documents. The notice must be received prior to shop drawing submittal. The Contractor remains liable for any deviation unless reviewed by the Architect or Structural Engineer and acknowledged in writing, prior to receipt of the shop drawings.
 - Shop drawings will be returned not later than 10 working days after receipt by the Architect or Structural Engineer.
 - Architect/Engineer shall not be liable for work performed without approved shop drawings.

1. The surface of the exposed sub-grade shall be inspected by probing or testing to check for pockets of soil or unsuitable material. All fill and unsuitable foundation material shall be removed and footings shall rest on compacted fill or engineered fill. Footings shall be designed for an assumed minimum soil bearing capacity of 1,500pcf. All footing excavations, the stripping, undercutting and control of fill operations shall be done under the supervision of an independent testing laboratory, under the direction of a professional engineer licensed in the Commonwealth of Virginia.
2. Reference plan notes on foundation plan for additional notes and requirements.
3. Clear site and remove all vegetation, debris, decaying material and other obstructions from areas occupied by utilities and structures, etc; strip top soil to a depth of 3" or deeper as required; debris is to be completely removed from site or disposed of and is not to be deposited in fills.
4. Strip all topsoil from areas to be covered by structures or pavement and fill with an approved compacted fill compacted to 95% or better of maximum dry density as determined by Standard Proctor (ASTM D698).
5. All areas not to be excavated until building fill is placed and compacted.
6. Center footings under walls and columns unless noted otherwise.
7. Footing elevations shown represent the minimum depth at which footings shall be carried and shall be lowered as required to obtain suitable bearing.
8. All footings shall project at least 1'-0" into undisturbed natural soil or compacted controlled fill having a bearing value of at least 1,500 pcf. Place bottom of all exterior footings at least 2'-0" below finished grade. Earth cuts may be used as forms for footing concrete. Drain all bearing strata adequately before placing foundation concrete. Do not place concrete on frozen soil.
9. Proper site protection shall be maintained in order to protect the site from excess surface moisture during construction. Protection of the site shall include the construction of temporary ditches, berms or other erosion control measures to prevent surface water from entering the site.
10. Where, due to field conditions, actual bottom of footing elevations will differ from elevations shown on plans, piers and columns shall be increased, decreased, added or eliminated following intent of these drawings and specifications.
11. Footing step locations indicated on the foundation plans are approximate; actual locations may vary from those indicated on drawings due to field conditions. The Contractor shall locate footing steps in field as required by finish grade and localized soil conditions.
12. Except where unbalanced fill on foundation walls is less than 4'-0" (or as otherwise stated on drawings), backfill shall not be placed against concrete or masonry foundation walls unless the walls have attained full design strength and the top of these walls are braced against overturning in a manner satisfactory to the engineer.
13. Excavations at retaining walls shall be sloped. Temporary slopes should be constructed on a slope of one horizontal to one vertical or flatter.
14. All walls shall be adequately braced to resist all horizontal loads from wind, earth, and construction loads during installation and until such time as permanent anchorage is in place. Heavy compaction equipment will not be allowed within a distance subtended by a 45° angle between the surface of the ground and any footing.
15. Contractor shall include in his bid all civil engineering and site work including landscaping, seeding and storm water placement at denuded/disturbed areas, as well as temporary erosion control as required by the governing jurisdiction(s).
16. All underground utilities shall be referenced from site, mechanical, electrical, and plumbing drawings and connections shall be made prior to placing foundation concrete. Architect / Structural Engineer is not responsible for locating and coordinating utility interactions with building.
17. Roof drain pipes serving the structure shall tie into underground perimeter foundation drain pipes and be taken to an appropriate point of discharge. Contractor to coordinate with civil drawings for day in or out information.
18. All concrete sidewalks shall receive a broom finish unless otherwise specified on architectural or landscape drawings.

1. New foundation elements including footings and slabs on grade are designed based upon an assumed 1,500 psf allowable soil bearing capacity. Existing subgrade soils shall be visually inspected and probed by a geotechnical engineer's representative upon excavation and prior to concrete placement. Unsuitable soils shall be over-excavated and replaced with stone or alternate foundation supports shall be constructed as determined and designed by the structural engineer.
2. All underground utilities shall be referenced from site, mechanical, electrical, and plumbing drawings. Architect / Structural Engineer is not responsible for locating and coordinating utility interactions with building. Concrete removed for new plumbing trenches shall be replaced with a new section of slab to match the existing slab thickness, of 4" minimum. New concrete shall rest upon a compacted stone (#57 or similar) base and be dovetail into adjacent sections of existing slab with #4 x12" bars all no more than 48" apart.
3. Any new or replaced roof drain pipes serving the structure shall tie into existing discharge(s). Clogged or inoperable drains shall be repaired or replaced. Contractor to coordinate with civil drawings and/or existing conditions for daylight or tie-in information.

Materials for concrete masonry walls shall be in accordance with the following specifications:

- a. Hollow load bearing units: ASTM C90 Type 1, Grade N, 1500 psi on the net area.
 1. Minimum weight
 32 lbs per 8" x 8" x 16" unit
 37 lbs per 12" x 8" x 16" unit
- b. Grout: ASTM C427, fc = 2000 psi
- c. Mortar: ASTM C770, Type M (below grade), S (structural), or N (veneer, non-structural).
- d. Reinforcing steel: ASTM A615, Grade 60
- e. ASTM A106 or ASTM A153 (galvanized) or ASTM A580 (stainless)
- f. Welds and reinforcing: Hilti HIT-HY 702 or Simpson AT-XP or SET-XP or approved equal
- g. Adhesive anchoring: HAS- E threaded rod or F154 or A615 deformed bar or approved equal
- h. Masonry screws: Hilti KWIK CON II+ or Simpson Titen HD or approved equal
- i. Heavy duty screw anchors: Hilti KWIK HUS-12 or Simpson Titen HD
- j. Concrete Wedge Anchors: Hilti Bolt-It or Simpson Wedge All or approved equal
2. All concrete masonry work shall be in accordance with TMS 402, ACI 308.2 and TMS 403.
3. All engineered concrete masonry shown on the contract drawings has been designed based on full allowable stresses. Special inspection by a qualified inspector shall be required.
4. All masonry shall be laid in running bond unless otherwise noted on the architectural drawings. Build all masonry level, square, plumb and true.
5. Provide standard S12 truss type horizontal joint reinforcing for masonry walls greater than 4" thick, see drawings for vertical reinforcement.
6. Provide vertical control joints at a maximum of 25' c/c. spacing in all masonry walls unless noted. See architectural elevations for control joint locations.
7. Veneer masonry shall be anchored to studs with 3/16" gap hot-dipped, galvanized steel adjustable wire anchors at 24" o/c horizontal spacing. Provide standard S12 X-Sail Anchor for continuous perimeter lintel or DW-10 (duct to structure). Hahnemann & Barnard or approved equivalent.
8. Provide mortar mixed above all flashing points. Install per manufacturer's written instructions using specified fasteners, tape, and other accessories as necessary. Maintain minimum airspace between veneer masonry and wall sheathing/insulation as required per architectural drawings.
9. Face Brick: See architectural drawings for all notes, specifications, and details regarding face brick and/or other veneer masonry.
10. See architectural drawings for all notes, specifications, and details regarding flashing and weep.
11. Provide rebar dowels of the same size and spacing as vertical reinforcing from wall and spread footings. Dowels shall have standard ACI hooks and shall lay, unless noted otherwise, 48x bar diameter with first lift of vertical reinforcing each face.
12. Clear bars denoted each face (EF) in masonry walls shall be placed 1/2" clear from face or cell wall, or as noted in structural details.
13. All poured or pumped grout shall be fine grout, with slump 8"-10". Grouting to be placed in lifts and inspected to exceed the limitations stated in ACI 303. Grouting processes to be fully monitored and notified by special inspections engineer. Provide inspection spots at bottom of each lift four (4) over 5' in height as required on the outside face of the CMU. Stop grout for each lift 1" below top of last CMU course, with the exception of the concrete core. The concrete core cell shall be mechanically consolidated, either by using a mechanical "pencil" vibrator for a maximum of two seconds or by rodding with a separate piece of reinforcing steel of length sufficient to reach to the bottom of the grout lift. Grout shall be re-consolidated upon water loss by similar means.
14. All hollow masonry walls that change in thickness or number of wythes shall have a course of solid or grout filled units at the transition.
15. Walls shall be grouted as soon as possible to prevent shrinkage cracking. Masonry shall be allowed to cure a minimum of 24 hours prior to grout placement.
16. The top of unfinished masonry work and all stored masonry materials shall be covered to protect the masonry material from the weather.
17. Masonry shall not be supported on wood girders or other form of wood construction. Provide steel lintels bearing on solid masonry above openings.
18. Completed masonry work to be brushed and washed with warm clean water, and free of excess mortar. Clean all other work affected by mortar spills and washing.
19. Loose steel angle lintels shall conform to ASTM A36 for steel. All lintels to have 8" minimum bearing on one side of solid or grouted masonry units, unless noted otherwise. All loose lintels to be provided by structural steel contractor.
20. Provide end S12(12"x16") for each 4' of masonry wall thickness over gables, louvers, panel boxes, ducts and other miscellaneous openings not listed in schedule.
21. Use two courses of solid grouted CMU under all joints bearing into masonry walls.
22. Follow manufacturer's written installation procedures for installation of all post-installed anchors in masonry walls. For adhesive anchoring into hollow walls use appropriately sized screen tube in oversized hole. Grout must be placed in accordance with manufacturer's requirements. Where required, contractor shall receive certification from manufacturer for conformance to installation procedures.

1. Existing masonry components are to remain in place, except as shown on demolition plans for new openings. Existing deteriorated masonry units shall be replaced, and damaged, deteriorated, or replaced mortar joints shall be repaired in the field as conditions require. Contractor shall notify engineer of any areas not noted on drawings.
2. New masonry and mortar mixes shall be provided with materials as close to original composition as possible. New units and mortar mixes of greater compressive strength than original materials shall not be permitted.
3. Deteriorated, out-of-plumb, cracked, or damaged brick shall be replaced/repaired as required.
4. Mason to report all masonry where mortar joints have deteriorated.
5. Dowsels to remove cutouts, gables, and center wythe bricks as found to be cracked, broken, degraded, or necessary in order to provide show reinforcement. Verify actual extent of brick damage as shown.
6. Helibol stainless steel reinforcing dowels as manufactured by Helibol shall be provided in field in structural details for masonry reinforcement. Dowels to be placed within collar joint between two wythes of brick. Dowels shall be fully embedded within mortar joints, and shall be drilled min. 6" into remaining undamaged existing brick. Use Helibol injected cementitious grout for all Helibol repairs. Dowels shall be cut from stick length to provide stated embedment into existing masonry and extend to within 4" of the outside corner of the building.
7. Use Hilti HIT-HF 70 epoxy where anchorage must be made into existing brick masonry walls.
8. Re-use existing bricks where practical. New bricks and mortar mix shall match existing materials as close as possible. Mortar shall be air-entrained for durability and shall not contain Portland cement.
9. Repair and patch notes shall be provided to contractor to full extent of all existing masonry walls. General Contractor to coordinate with mason for full extent of repair work.
10. Mason chosen for repair and rehabilitation of existing masonry walls shall be experienced in the materials and methods of historic masonry work.

SALEM COURTHOUSE
JURY ROOM EXPANSION
GENERAL STRUCTURAL NOTES

| | |
|-------------|--------------|
| DRAWN BY | WCH |
| DESIGNED BY | WCH |
| CHECKED BY | MJH |
| DATE | 08-30-2021 |
| SCALE | As indicated |
| REVISIONS | |

S0.01

PROJECT NO 03220052.0

**BALZER
& ASSOCIATES**PLANNERS / ARCHITECTS
ENGINEERS / SURVEYORSRoanoke / Richmond
New River Valley
Shenandoah Valley**www.balzer.cc**

1208 Corporate Circle

Roanoke, VA 24018

540.772.9580



SALEM COURTHOUSE

JURY ROOM EXPANSION

FOUNDATION PLAN

2 EAST CALHOUN STREET
SALEM, VIRGINIA 24153DRAWN BY **WCH**
DESIGNED BY **WCH**
CHECKED BY **MJF**
DATE **08-30-2023**
SCALE **As indicated**
REVISIONS**S1.01**

PROJECT NO

03220052.00

COLUMN SCHEDULE

| MARK | SIZE | BASE PLATE | ANCHOR BOLTS | REMARKS |
|------|-------------|--------------|----------------------|--------------|
| C3.0 | HSS3X3X3/16 | 3/4"X10"X10" | (4) 3/4" X 18" F1554 | 1-1/2" GROUT |

PIER SCHEDULE

| MARK | W x L | VERTICAL REINFORCEMENT | HORIZONTAL REINFORCEMENT | REMARKS |
|------|-----------|------------------------|--------------------------|-------------------------------|
| P1.4 | 16" x 16" | (4) #5 BARS | #3 TIES @ 12" O.C. | ADDITIONAL TIES @ ANCHOR RODS |
| P1.5 | 16" x 18" | (6) #5 BARS | #3 TIES @ 12" O.C. | ADDITIONAL TIES @ ANCHOR RODS |

FOUNDATION WALL SCHEDULE

| MARK | WIDTH | MATERIAL | fc (psi) | VERTICAL REINFORCEMENT | VERTICAL DOWELS | HORIZONTAL REINFORCEMENT | REMARKS |
|-------|-------|----------|----------|------------------------|-----------------|--------------------------|----------------------|
| FW8.0 | 8" | CMU | 1500 | #5 @ 48" O.C. | #5 @ 48" O.C. | 9ga LADDER @ 16" O.C. | TYP. FOUNDATION WALL |

FOOTING SCHEDULE

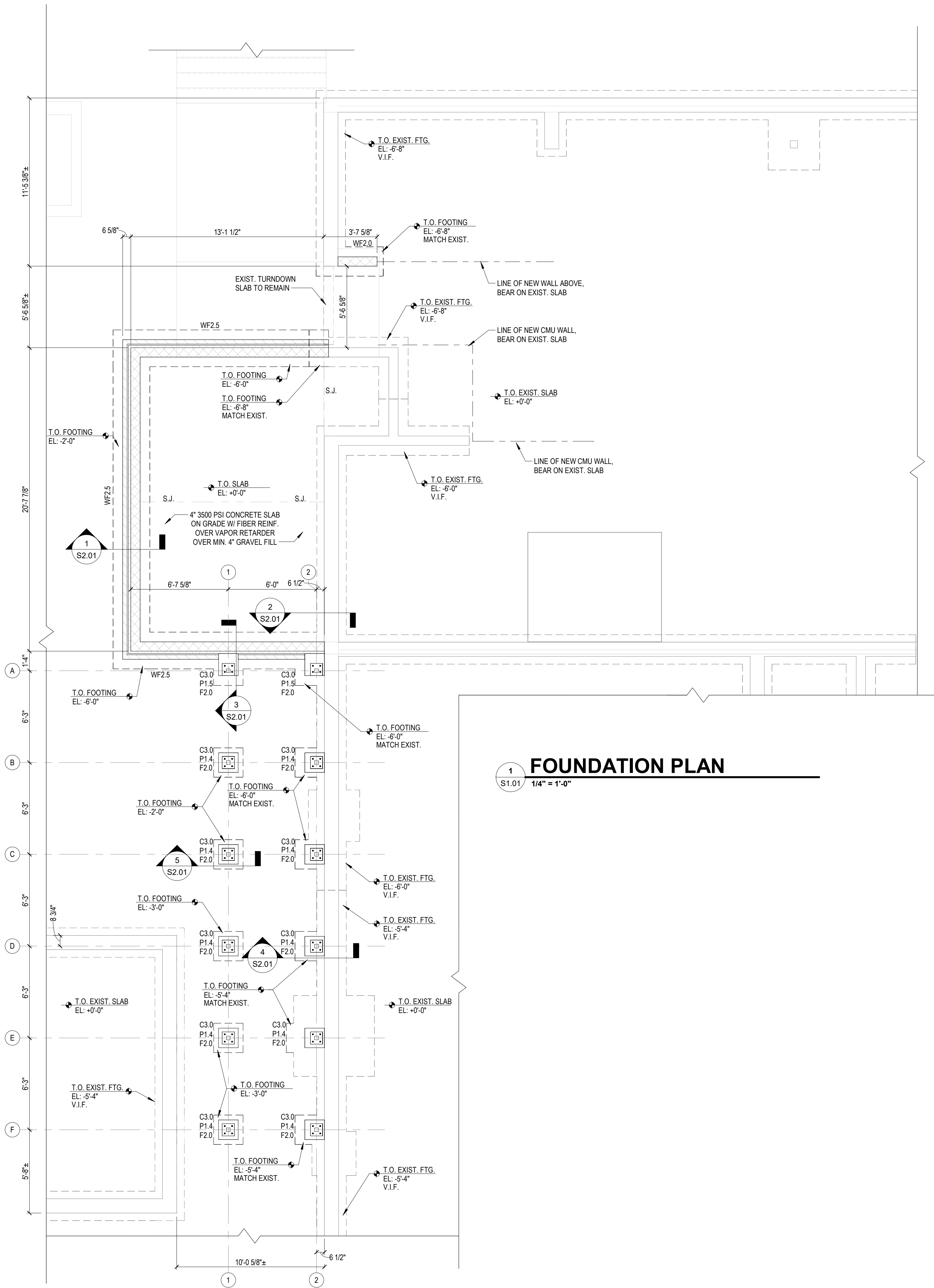
| MARK | WIDTH | SIZE | DEPTH | LONGITUDINAL REINFORCEMENT | TRANSVERSE REINFORCEMENT | REMARKS |
|-------|-------|-------|-------|----------------------------|--------------------------|-------------------------|
| F2.0 | 2'-0" | 2'-0" | 1'-0" | (2) #5 @ BOTTOM | (2) #5 @ BOTTOM | SPREAD FOOTING |
| WF2.0 | 2'-0" | 2'-0" | 1'-0" | (2) #5 CONTINUOUS | #4 @ 24" O.C. | CONTINUOUS WALL FOOTING |
| WF2.5 | 2'-6" | 2'-6" | 1'-0" | (2) #5 CONTINUOUS | #4 @ 24" O.C. | WALL FOOTING |

GENERAL FOUNDATION NOTES:

- SEE SITE PLAN FOR EXACT WALKWAY/CURB, ETC. LOCATIONS AND FOR CONTINUATION REQUIREMENTS.
- FOOTING SIZES BASED ON AN ASSUMED 1500 psf BEARING CAPACITY.
- FOOTING ELEVATIONS SHOWN ARE APPROXIMATE ONLY. ACTUAL FOOTING STEP LOCATIONS SHALL BE AS REQUIRED IN FIELD TO MAINTAIN DEPTH BELOW FINISH GRADE. ADDITIONAL STEPS MAY BE REQUIRED TO OBTAIN SUITABLE BEARING. WHERE NEW FOOTINGS CONTACT EXISTING FOOTINGS, MATCH FOOTING DEPTH TO EXISTING.
- BELOW GRADE CONCRETE MASONRY FOUNDATION WALLS SHALL BE FW8.0 UNLESS NOTED OTHERWISE. SEE THE FOUNDATION SCHEDULE FOR SIZE AND REINFORCEMENT REQUIREMENTS.
- BACKFILL SHALL NOT BE PLACED AGAINST WALL BEYOND THE LIMITS SHOWN ON THE DETAILS. IF BACKFILLING MUST BE EXPEDITED ABOVE THE MAXIMUM HEIGHT SHOWN PRIOR TO THE INSTALLATION OF THE ELEVATED FLOOR SLAB AND THE GROUND FLOOR SLAB, TEMPORARY SHORING SHALL BE PROVIDED. CONCRETE SUBCONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AN ENGINEERED SHORING DESIGN.
- WHERE FOUNDATION WALL DECREASES IN THICKNESS, TOP COURSE OF LARGER-WYTHE CMU SHALL BE GROUTED SOLID CONTINUOUSLY TO PROVIDE A SOLID BRICK SHELF.
- ALL EARTHWORK CUT AND FILL OPERATIONS SHALL BE OBSERVED BY A LICENSED GEOTECHNICAL ENGINEER AS STIPULATED IN THE PROJECT STATEMENT OF SPECIAL INSPECTIONS. NOTIFY ENGINEER OF RECORD OF ANY ADVERSE SOIL CONDITIONS DISCOVERED THAT MAY AFFECT THE DESIGN OF ANY FOUNDATION ELEMENTS.
- ONSITE SOILS MAY BE USED FOR STRUCTURAL BACKFILLING OPERATIONS WHEN STATED IN THE PROJECT GEOTECHNICAL ENGINEER'S REPORT. SUITABLE SOILS MUST BE CLASSIFIED AS CL, ML, SC, SM, SP, SW, GC, GM, GP, OR GW PER ASTM D2487. BACKFILL MUST BE PLACED AT OPTIMUM MOISTURE CONTENT AND IN 8" MAXIMUM LIFT INCREMENTS AND COMPACTED TO AT LEAST 95% OF THE MAXIMUM DRY DENSITY PER ASTM D698. ALL BACKFILLING OPERATIONS AND FOUNDATION TRENCHES ARE TO BE OBSERVED BY AND PERFORMED IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE GEOTECHNICAL ENGINEER.

CONCRETE SLAB NOTES:

- SUB-BASE GRADE FOR GROUND FLOOR SLAB SHALL BE PROOF-ROLLED IN CONSULTATION WITH THE GEOTECH ENGINEER. EXTERIOR SLABS ON GRADE SHALL BE PROVIDED WITH A MINIMUM 8" LAYER OF POROUS COMPACTED FILL AND INTERIOR SLABS SHALL OVERLAY A MINIMUM 4" SUCH LAYER. FILL MAY CONSIST OF VDOT #57, #21A, STONE SCREENINGS, RECYCLED CONCRETE, OR OTHER SUITABLE MATERIAL SUBJECT TO APPROVAL OF GEOTECH ENGINEER.
- CONCRETE FLOOR SLABS SHALL BE OF A MINIMUM THICKNESS AS CALLED OUT ON FOUNDATION PLAN. CONCRETE FOR SLABS ON GRADE SHALL BE REINFORCED WITH EMBEDDED FIBER REINFORCEMENT FOR SHRINKAGE CRACK CONTROL AND RESIDUAL STRENGTH. SLABS SHALL BE PROPERLY CURED TO PREVENT EXCESSIVE SHRINKAGE AS WELL AS EDGE CURLING AND OTHER FIELD ISSUES. A 7-DAY WET CURE IS RECOMMENDED. SLABS SHALL BE SUITABLY FLAT AND LEVEL FOR THE INTENDED USE AS ACCEPTABLE TO THE OWNER.
- SAW CUT CONTROL JOINTS SHALL BE PROVIDED IN THE SLAB PRIOR TO CURING IN A REGULAR RECTANGULAR GRID, AS BEST AS POSSIBLE. JOINTS SHALL BEGIN AT COLUMN ISOLATION JOINTS AND/OR RE-ENTRANT CORNERS AND SHALL PANELIZE THE SLAB IN RECTANGULAR SEGMENTS APPROXIMATELY 2:1 OR SQUARE IN LENGTH:WIDTH RATIO. JOINTS SHALL BE SPACED NO FURTHER THAN 60X SLAB THICKNESS IN A "STRUCTURALLY REINFORCED" SLAB OR 36X SLAB THICKNESS FOR A MINIMALLY-REINFORCED SLAB. ADJUST ACTUAL SPACING OF JOINTS AS NECESSARY BASED UPON SELECTED PERFORMANCE CRITERIA AND FIBER REINFORCEMENT DOSAGE RATE.
- FIBER REINFORCEMENT FOR CONCRETE SLABS SHALL BE EUCLID TUF-STRAND SF MACRO FIBERS OR APPROVED EQUIVALENT. PROVIDE MINIMUM FIBER REINFORCEMENT DOSAGE RATE OF 3 LB/CYD (POUNDS PER CUBIC YARD). MACRO FIBERS SHALL COMPLY WITH ASTM C1116 TYPE III AND ASTM D7508 AND SHALL HAVE A MINIMUM TENSILE STRENGTH OF 70 ksi. SYNTHETIC MACRO FIBERS FOR CONCRETE SHALL EXHIBIT A POST-CRACK RESIDUAL STRENGTH AND TOUGHNESS VALUE (R₃) OF 18% IN ACCORDANCE WITH ASTM C1609.
- SEE PLAN FOR GROUND FLOOR SLAB ELEVATIONS AND STEPS. COORDINATE WITH ARCHITECTURAL AND MEP DRAWINGS FOR SLAB CUTOUTS, DEPRESSIONS, AND PENETRATIONS NOT SHOWN ON FOUNDATION PLAN. STRUCTURAL ENGINEER IS NOT RESPONSIBLE FOR COORDINATION OF OTHER TRADES WITH THE CONCRETE.
- SEE ARCHITECTURAL DRAWINGS FOR SLAB FINISHES, COVERINGS, AND/OR TOPPINGS. FOLLOW ALL MANUFACTURER'S RECOMMENDATIONS FOR COVERINGS AND TOPPINGS WITH REGARDS TO SLAB THICKNESS, SLOPE, FLATNESS/LEVELNESS, MOISTURE, PERMEABILITY, HARDNESS, JOINT SPACING, AND ANY OTHER COMPATIBILITY ISSUE. STRUCTURAL ENGINEER IS NOT RESPONSIBLE FOR COORDINATION OF FINISH REQUIREMENTS.
- PROVIDE DIAMOND-SHAPED ISOLATION BLOCKOUTS AROUND COLUMN BASES EXTENDING BELOW THE SLAB.
- PROVIDE (2) #4 X24" REBARS AT 2" DEPTH AT 45° ANGLE TO ALL RE-ENTRANT CORNERS IN SLAB.

FOUNDATION PLAN1
S1.01 1/4" = 1'-0"



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LINTEL SCHEDULE

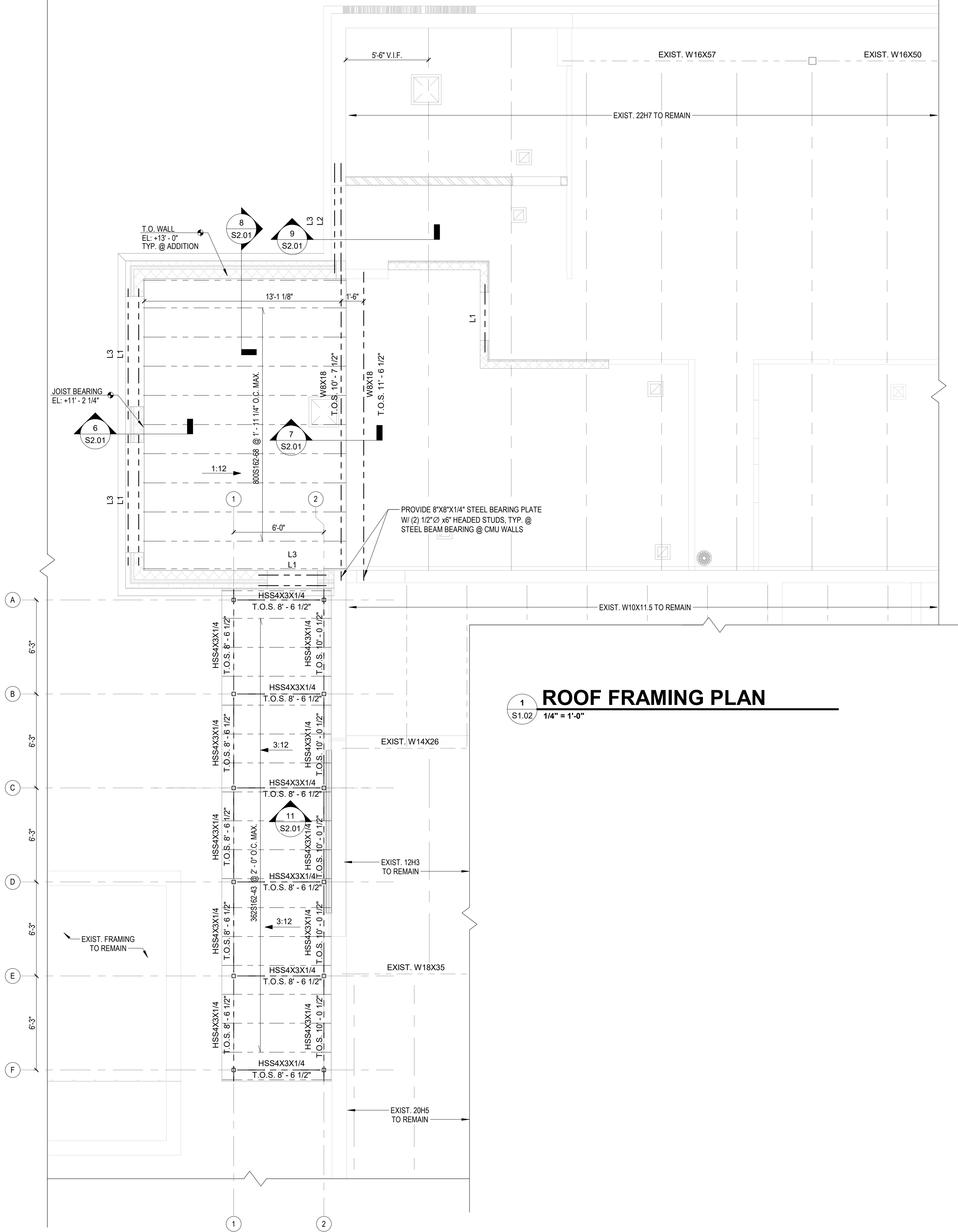
| MARK | SIZE | REINFORCEMENT | BEARING | Comments |
|------|--------------------|-----------------------------------|-------------|--|
| L1 | 16x16 CMU U-LINTEL | (1) #5 CONT. @ BOTTOM GROUT SOLID | 8" EACH END | 2-COURSE BOND BLOCK W/ KNOCK OUT COURSE(S) ABV |
| L2 | 8x16 CMU U-LINTEL | (1) #5 CONT. @ BOTTOM GROUT SOLID | 8" EACH END | BOND BLOCK W/ KNOCK OUT COURSE(S) ABV |
| L3 | L5X3-1/2X5/16 | | 8" EACH END | LOOSE LINTEL |

GENERAL MASONRY NOTES:

- CONCRETE MASONRY WALLS ABOVE GRADE SHALL BE 8" CMU U.N.O. PROVIDE #5 VERTICAL BARS AT 48" O.C. AND 9GA. LADDERTYPE HORIZONTAL JOINT REINFORCEMENT AT 16" O.C. GROUT SOLID AT ALL REINFORCED CELLS.
- PROVIDE (1) #5'S VERT. EA. CELL FOR (1) CELLS EA. SIDE OF EA. OPENING & AT ALL CORNERS (3 TOTAL BARS AT CORNERS).
- PROVIDE (2) CONTINUOUS KNOCK-OUT COURSES WITH CONTINUOUS #5 BAR AT EACH FLOOR LEVEL AND SOLID GROUTING AT ANY AND ALL OTHER BEARINGS/LEDGERS.
- PROVIDE (1) REINFORCE & SOLID CELL BENEATH ALL BEARING POINTS FOR JOISTS OR BEAMS. SEE STEEL NOTES AND DETAILS FOR BEARING PLATE REQUIREMENTS.
- CONTRACTOR SHALL PROVIDE VERTICAL CONTROL JOINTS IN ALL CMU WALLS >8'-0" IN HEIGHT AND >24'-0" IN LENGTH. JOINTS SHALL BE LOCATED AT ONE END OF ALL OPENINGS AND/OR WHERE INDICATED ON ARCHITECTURAL ELEVATIONS. JOINTS SHALL BE SPACED NO MORE THAN 24'-0" ON CENTER.
- TOP OF CMU WALLS TO BE UNDERSIDE OF ROOF DECK OR AS SHOWN ON STRUCTURAL DETAILS. PROVIDE KNOCK-OUT COURSE AT UPPERMOST FULL BLOCK COURSING, REINFORCED WITH CONT. #5 BAR. GROUT WALL SOLID CONT. FROM KNOCKOUT COURSE TO TOP OF WALL.
- MASONRY VENEER SHALL MATCH ARCHITECTURAL SPECIFICATIONS. PROVIDE BRICK TIES AT 16" ON CENTER VERTIALLY AND 24" ON CENTER HORIZONTALLY.
- PROVIDE VERTICAL EXPANSION JOINTS IN ALL BRICK VENEER WHERE INDICATED ON ELEVATIONS. JOINTS SHALL BE SPACED NO MORE THAN 24'-0" ON CENTER.
- ALL LINTELS SHALL CONFORM TO ARCHITECTURAL HEAD DETAILS. REFER TO ARCH. DWGS. FOR ALL FELT WRAP, FLASHING, WEEP, AND SEALANT REQUIREMENTS.

GENERAL STEEL ROOF FRAMING NOTES:

- ROOF SYSTEM SHALL BE LIGHT METAL JOISTS. SIZES SHOWN ACCOUNT FOR ALL LOADING CONDITIONS.
- LIGHT METAL JOISTS, AND THEIR CONNECTIONS TO SUPPORTING STEEL, SHALL BE DESIGNED FOR A NET UPLIFT OF 10 psf.
- METAL ROOF DECK SHALL BE 1-1/2" 22 GA. TYPE 1.5B, AND INSTALLED IN A MINIMUM (3) SPAN CONDITION. DECK SHALL BE PROVIDED PAINTED OR GALVANIZED. DECK SHALL BE ATTACHED TO THE SUPPORTING STEEL JOISTS W/ 5/8" PUDDLE WELDS @ 6" O.C. (36/7 PATTERN) ALONG SUPPORT CONDITIONS AT BUILDING EDGES, AND 12" O.C. (36/4) ALONG INTERMEDIATE FRAMING LINES. PROVIDE (2) #10 TEK SCREWS AT EACH SIDELAP PER SPAN. REFER TO STEEL DECK INSTITUTE SPECIFICATIONS, SECTION 4, FOR FURTHER INFORMATION.
- ROOF DECK EDGE SHALL EXTEND AS NOTED ON PLANS. PERIMETER OF ROOF SHALL BE PROVIDED WITH L4X4X1/4 DECK EDGE ANGLE. WHERE ROOF DECK BEARS AT A CONCRETE OR MASONRY WALL L4X4X1/4 LEDGER SHALL BE PROVIDED WITH 1/2" TITEN HD ANCHORS @ 24" ON CENTER INTO SOLID WALL.
- SEE ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONS NOT SHOWN.



1 ROOF FRAMING PLAN

1
S1.02
1/4" = 1'-0"

SALEM COURTHOUSE

JURY ROOM EXPANSION

FRAMING PLAN

2 EAST CALHOUN STREET
SALEM, VIRGINIA 24153

DRAWN BY WCH
DESIGNED BY WCH
CHECKED BY MJF
DATE 08-30-2023
SCALE As indicated
REVISIONS

S1.02

PROJECT NO 03220052.00

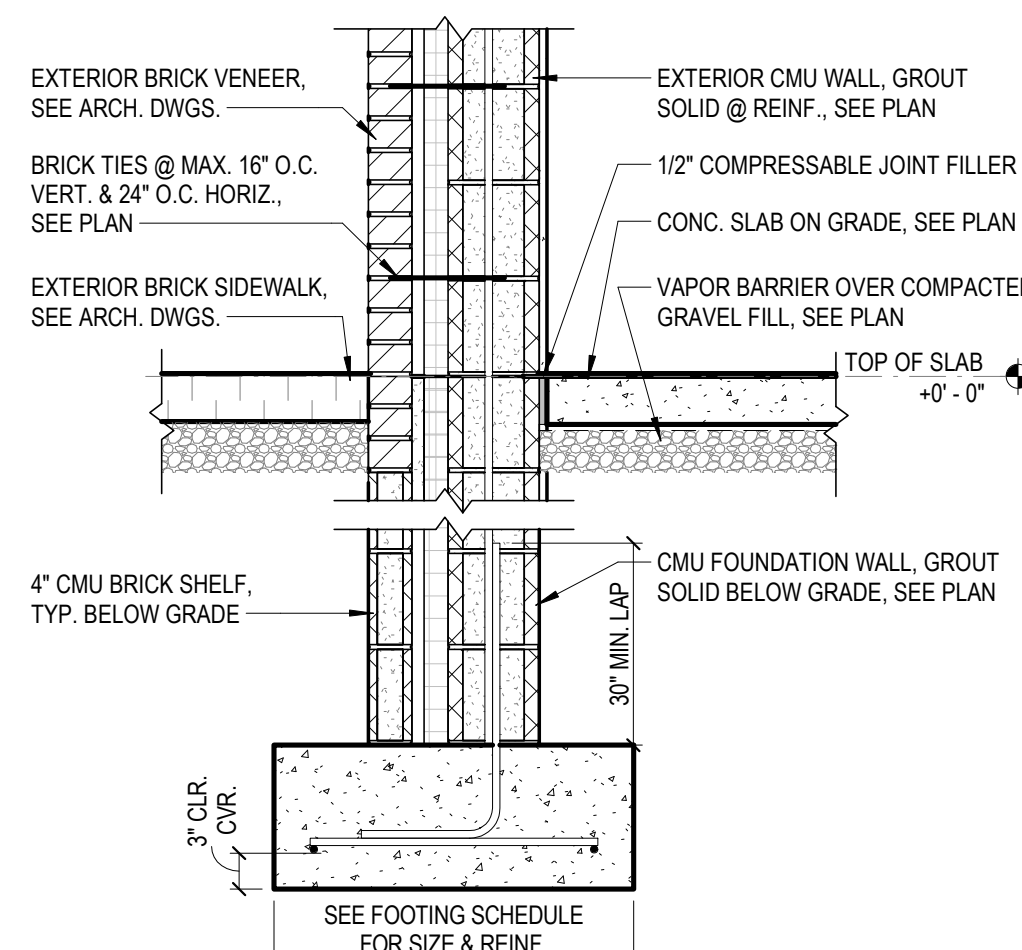


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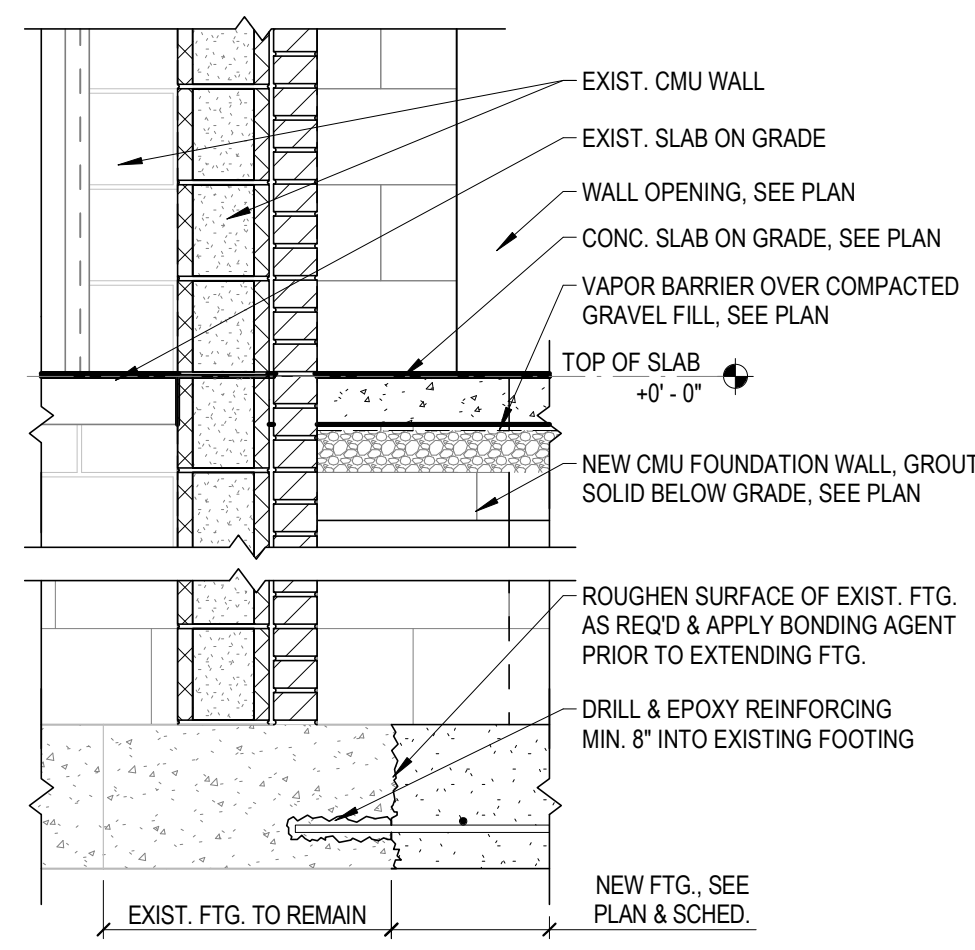
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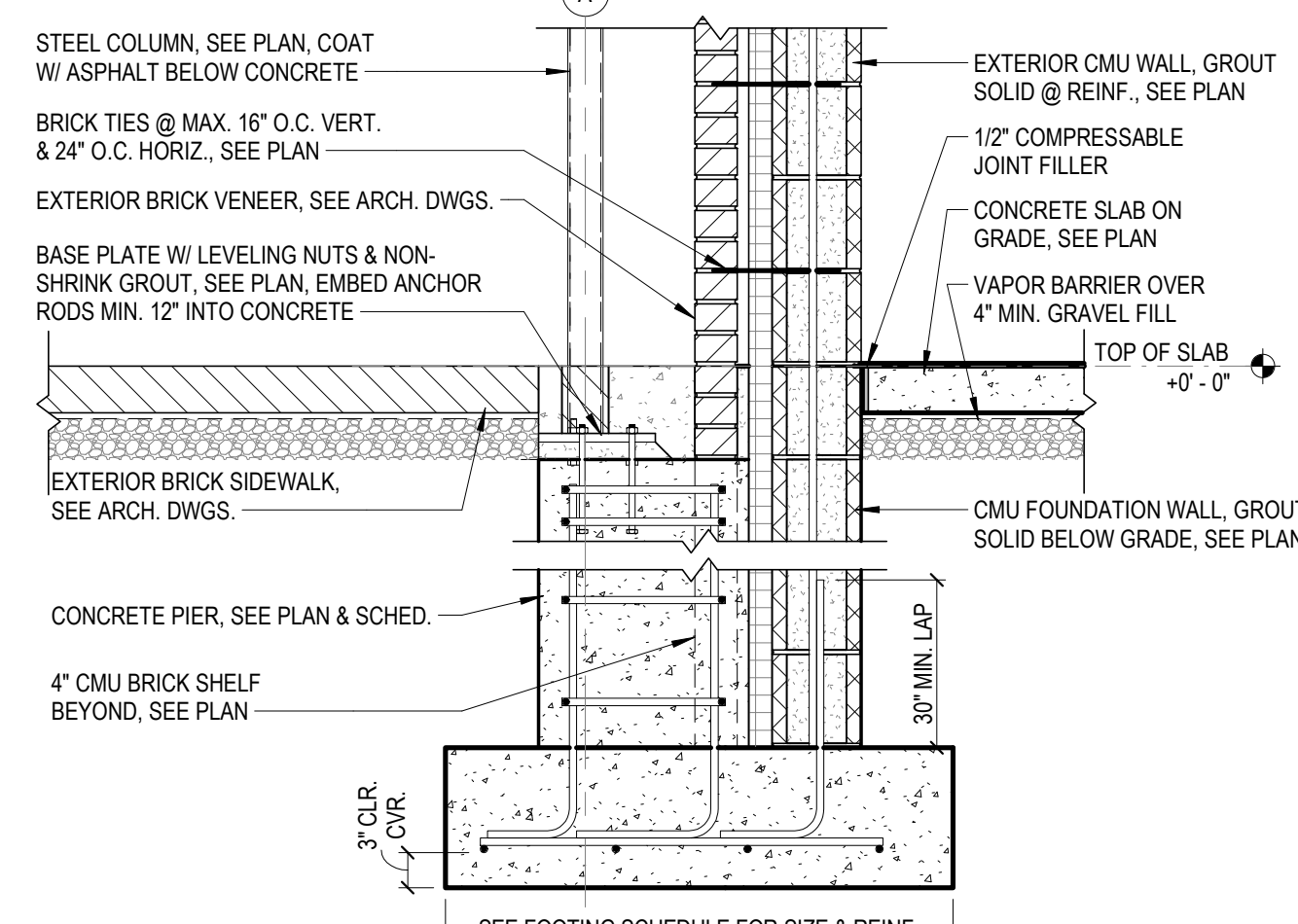
FOUNDATION WALL @ ADDITION

1
S2.01
3/4" = 1'-0"



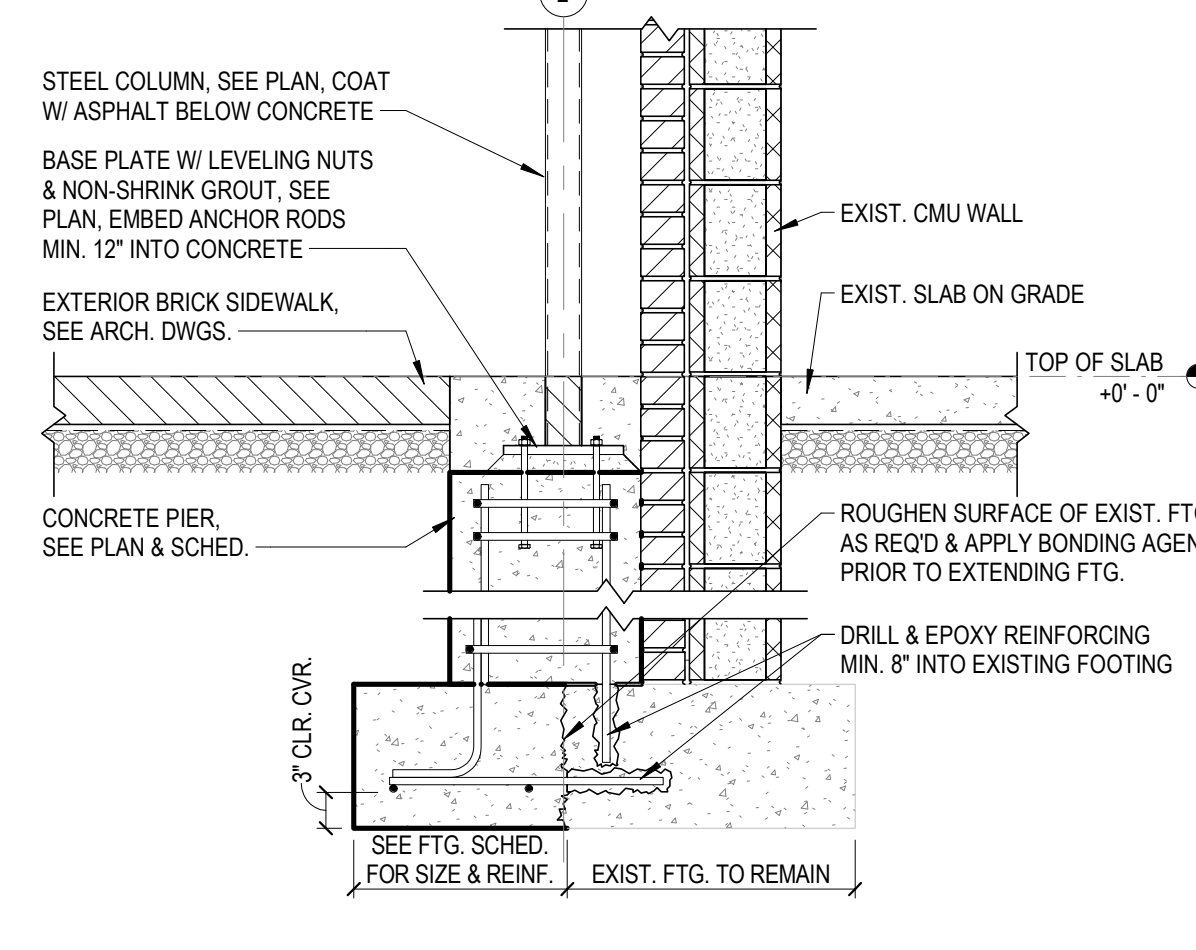
NEW FOUNDATION @ EXISTING FOUNDATION

2
S2.01
3/4" = 1'-0"



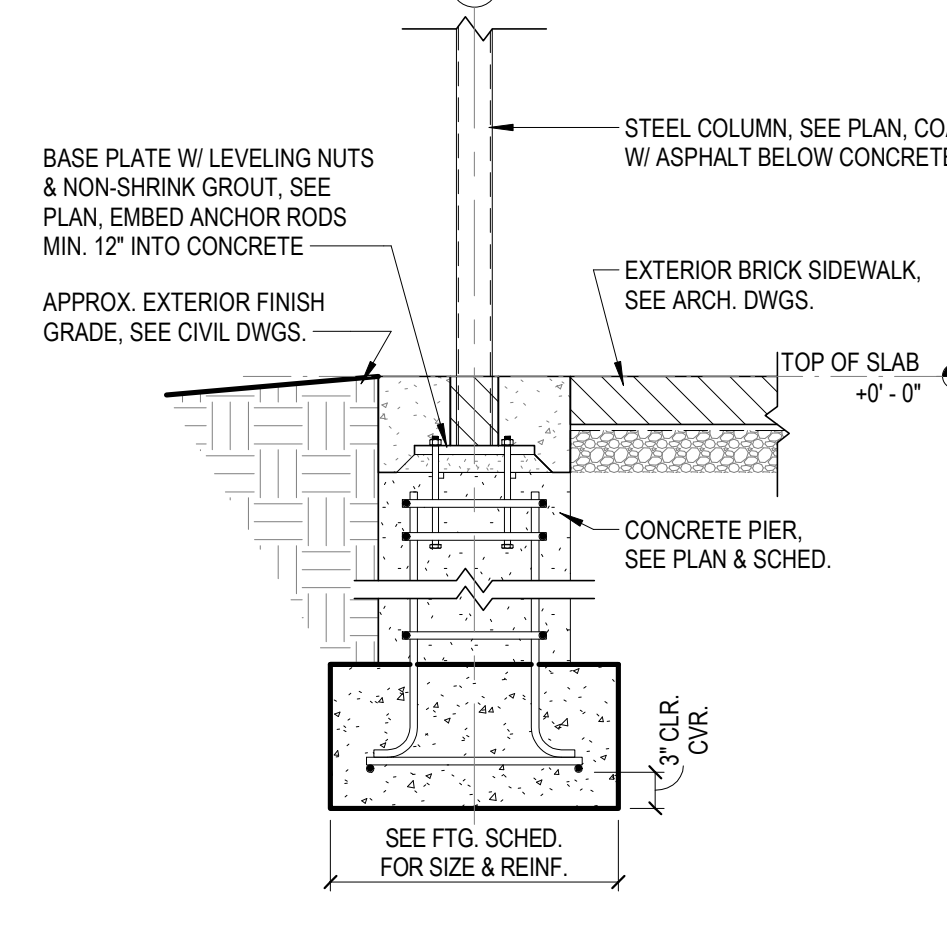
CANOPY COLUMN @ NEW FOUNDATION WALL

3
S2.01
3/4" = 1'-0"



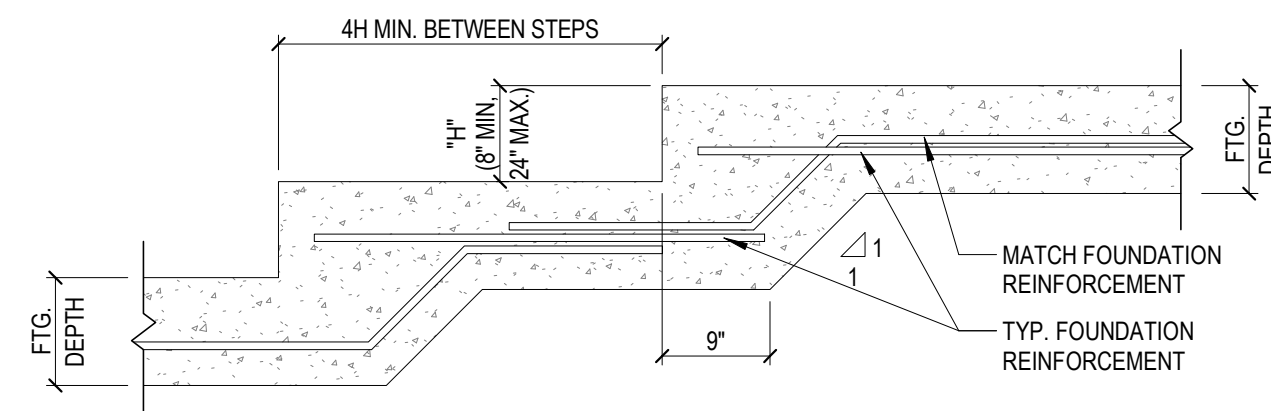
CANOPY COLUMN @ EXISTING WALL

4
S2.01
3/4" = 1'-0"



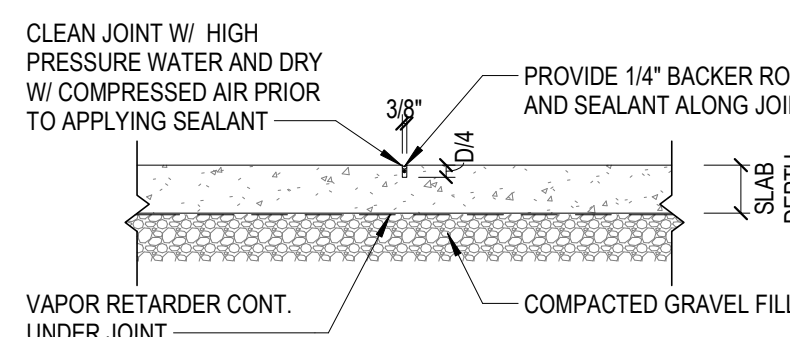
EXTERIOR CANOPY COLUMN

5
S2.01
3/4" = 1'-0"



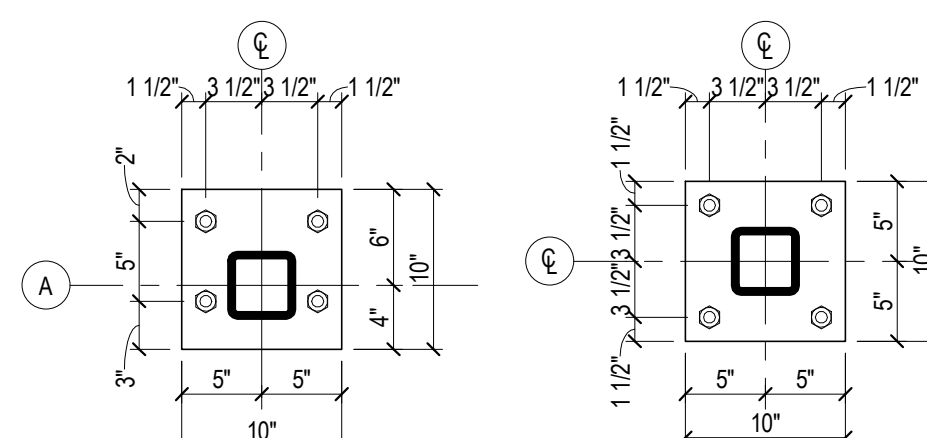
TYPICAL FOUNDATION STEP

3/4" = 1'-0"



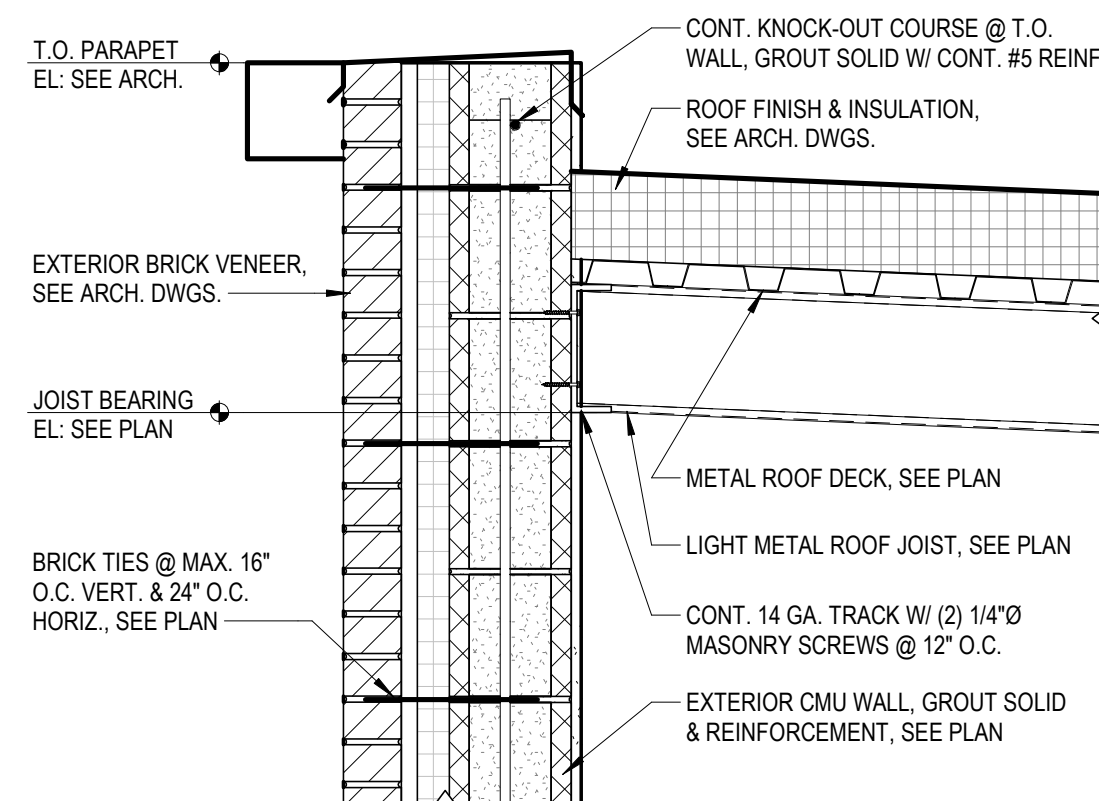
SAW CUT CONTROL JOINT

3/4" = 1'-0"



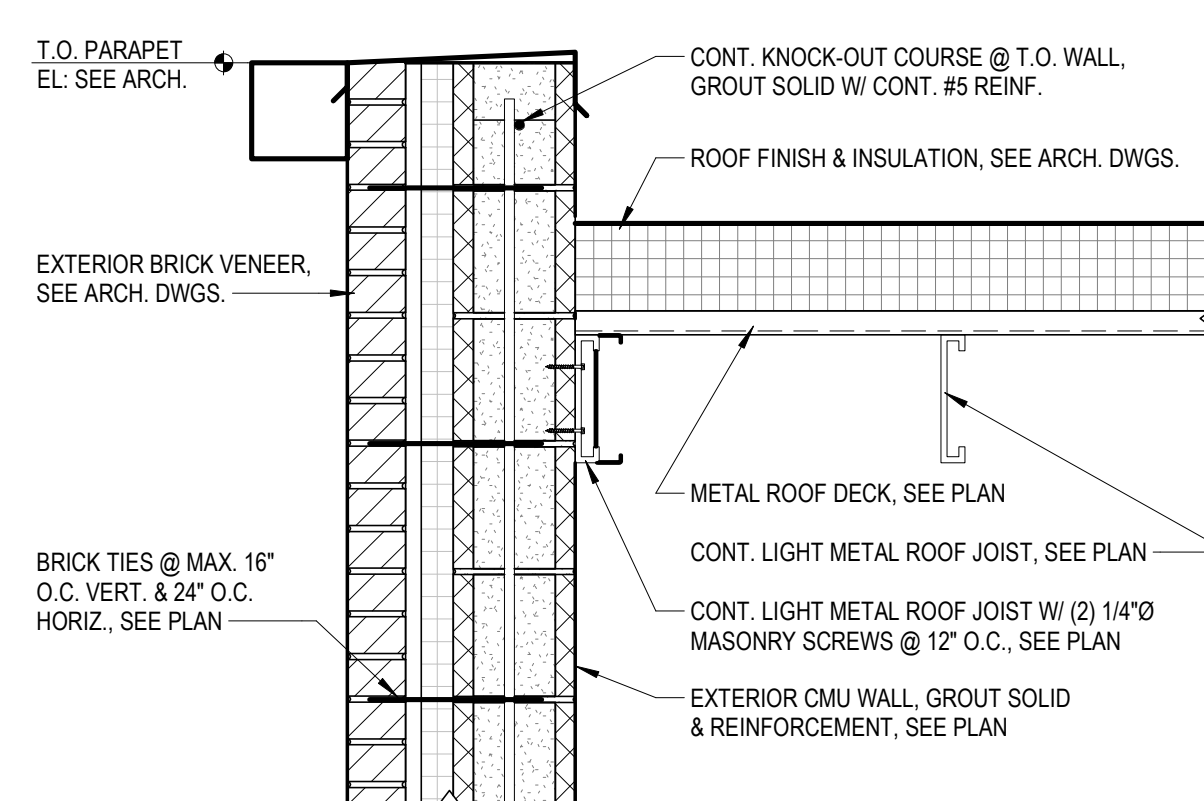
BASE PLATES

1" = 1'-0"



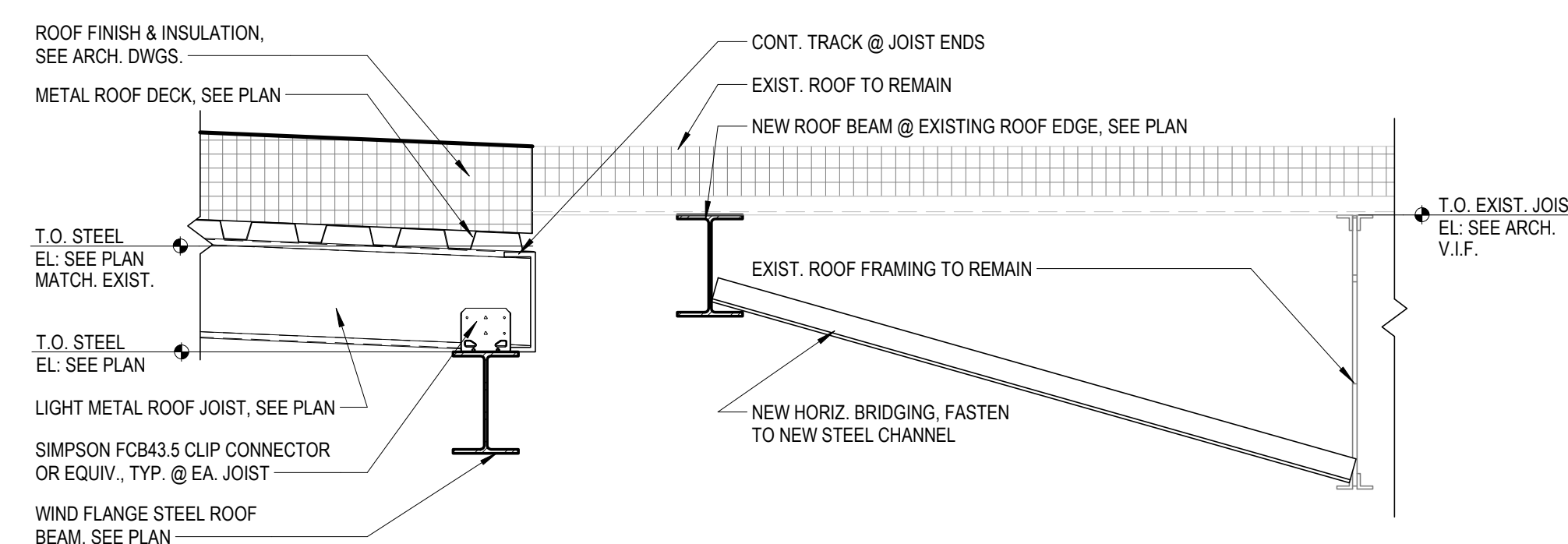
NEW ROOF JOIST BEARING @ EXTERIOR WALL

6
S2.01
1" = 1'-0"



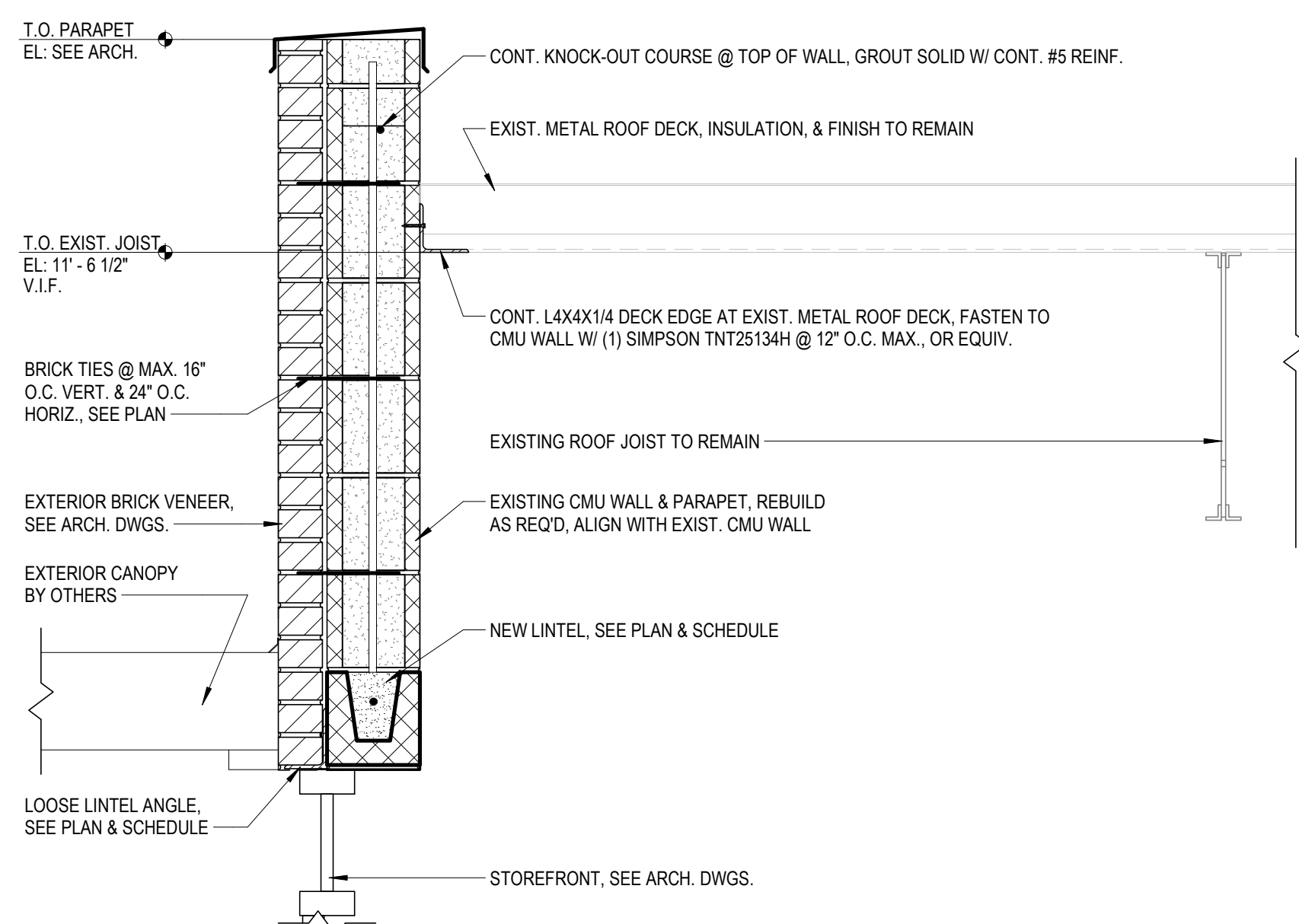
NEW ROOF BEARING @ EXTERIOR WALL

8
S2.01
1" = 1'-0"



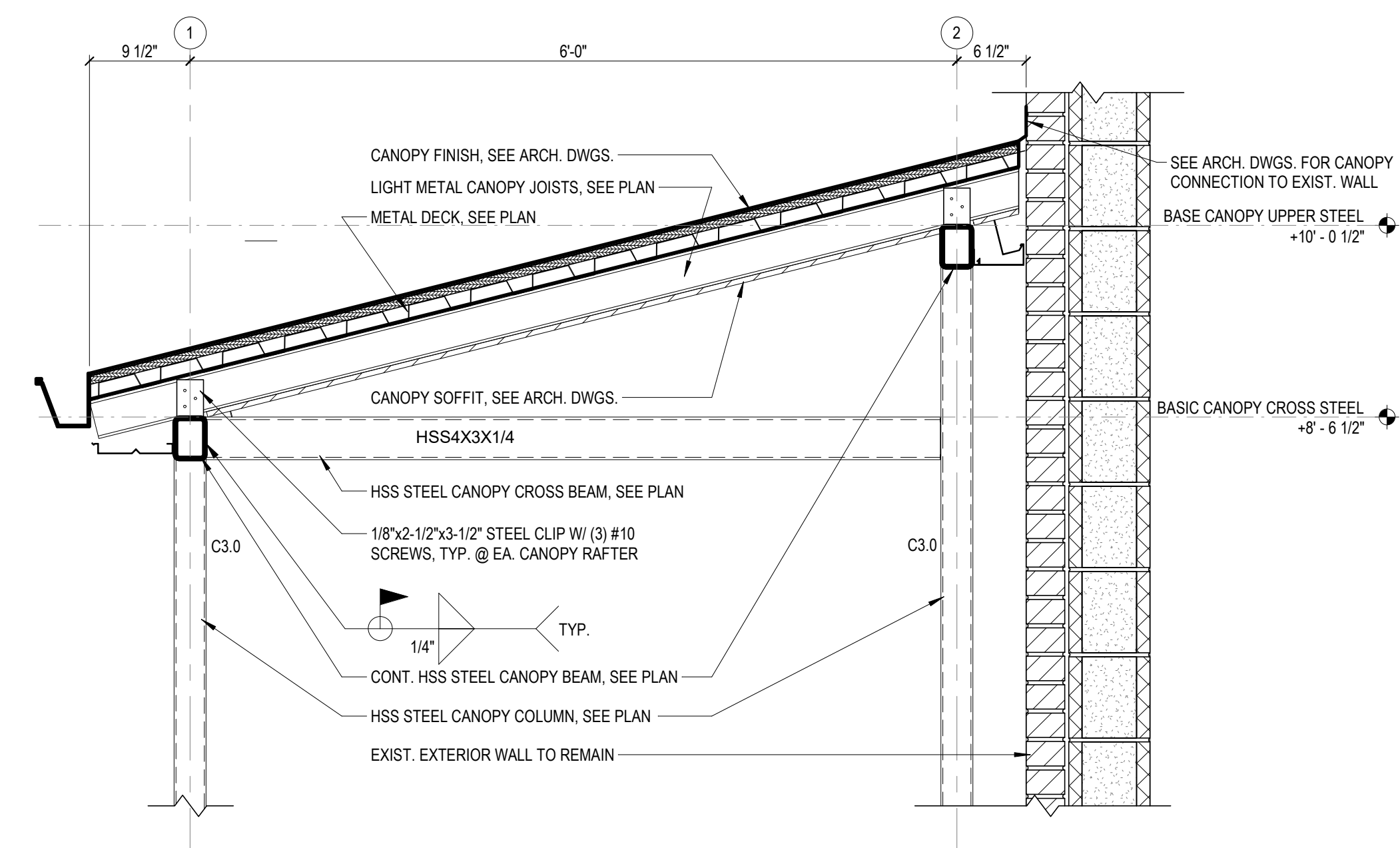
NEW ROOF JOIST BEARING @ EXIST. ROOF

7
S2.01
1" = 1'-0"



NEW ALCOVE FRAMING

9
S2.01
1" = 1'-0"



CANOPY STEEL - BASIC

11
S2.01
1" = 1'-0"

SALEM COURTHOUSE

JURY ROOM EXPANSION

STRUCTURAL DETAILS

2 EAST CALHOUN STREET
SALEM, VIRGINIA 24153

DRAWN BY **WCH**
DESIGNED BY **WCH**
CHECKED BY **MJF**
DATE **08-30-2023**
SCALE **As Indicated**
REVISIONS

S2.01
PROJECT NO 03220052.00



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| COLUMN SCHEDULE | | | | | |
|-----------------|-------------|--------------|----------------------|--------------|--|
| MARK | SIZE | BASE PLATE | ANCHOR BOLTS | REMARKS | |
| C3.0 | HSS3X3X3/16 | 3/4"X10"X10" | (4) 3/4" X 18" F1554 | 1-1/2" GROUT | |

| FOUNDATION WALL SCHEDULE | | | | | | |
|--------------------------|-------|----------|----------------------|------------------------|-----------------|--------------------------|
| MARK | WIDTH | MATERIAL | f _c (psi) | VERTICAL REINFORCEMENT | VERTICAL DOWELS | HORIZONTAL REINFORCEMENT |
| FW8.0 | 8" | CMU | 1500 | #5 @ 48" O.C. | #5 @ 48" O.C. | 9ga LADDER @ 16" O.C. |
| TYP. FOUNDATION WALL | | | | | | |

| PIER SCHEDULE | | | |
|--|-----------|------------------------|--------------------------|
| MARK | W x L | VERTICAL REINFORCEMENT | HORIZONTAL REINFORCEMENT |
| P1.4 | 16" x 16" | (4) #5 BARS | #3 TIES @ 12" O.C. |
| P1.5 | 16" x 18" | (6) #5 BARS | #3 TIES @ 12" O.C. |
| REMARKS: ADDITIONAL TIES @ ANCHOR RODS | | | |

| FOOTING SCHEDULE | | | | | |
|------------------|-------|-------|----------------------------|--------------------------|-------------------------|
| MARK | WIDTH | DEPTH | LONGITUDINAL REINFORCEMENT | TRANSVERSE REINFORCEMENT | REMARKS |
| F2.0 | 2'-0" | 1'-0" | (2) #5 @ BOTTOM | (2) #5 @ BOTTOM | SPREAD FOOTING |
| WF2.0 | 2'-0" | 1'-0" | (2) #5 CONTINUOUS | #4 @ 24" O.C. | CONTINUOUS WALL FOOTING |
| WF2.5 | 2'-6" | 1'-0" | (2) #5 CONTINUOUS | #4 @ 24" O.C. | WALL FOOTING |

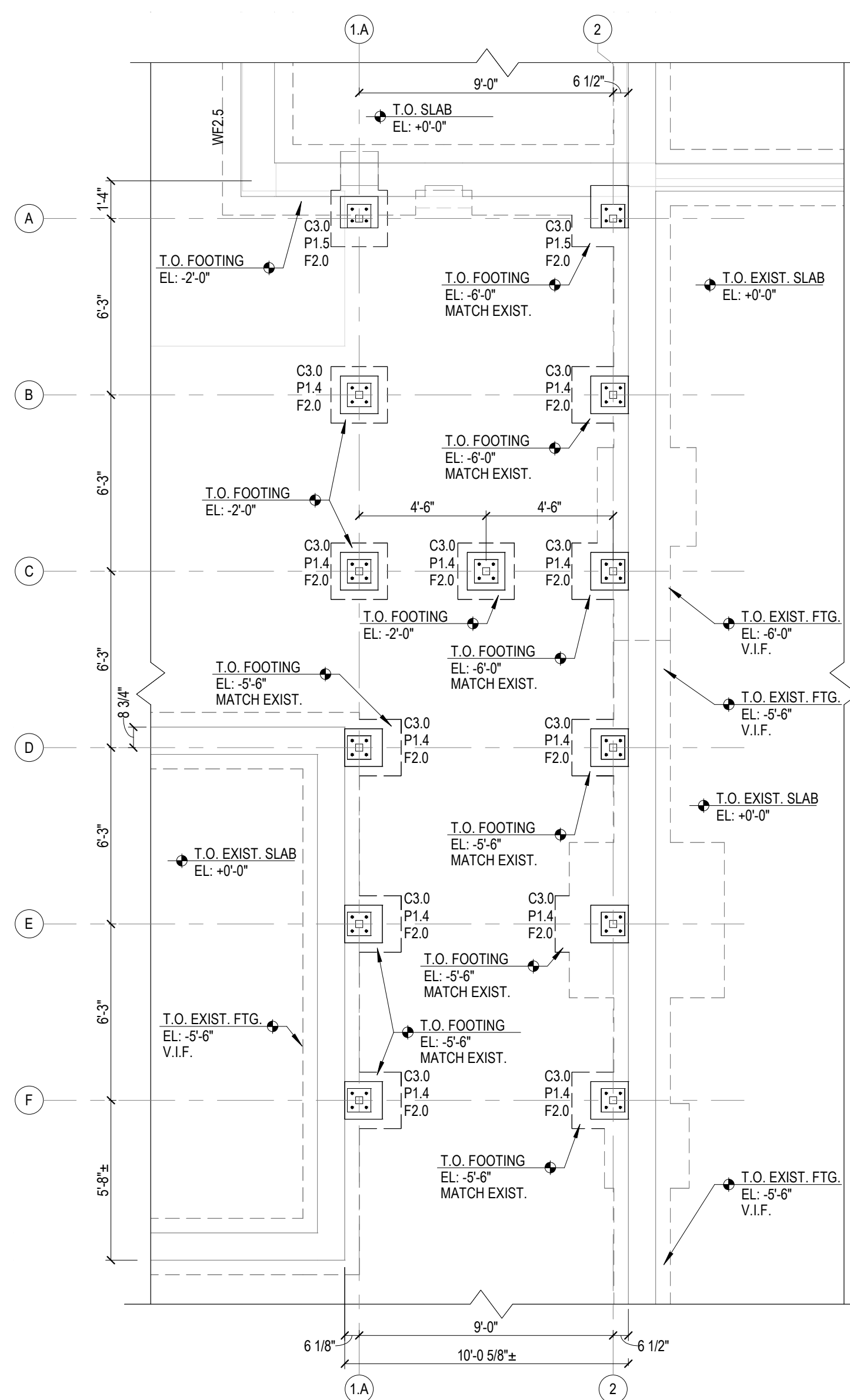
| LINTEL SCHEDULE | | | | |
|-----------------|----------------------|-----------------------------------|-------------|--|
| MARK | SIZE | REINFORCEMENT | BEARING | Comments |
| L1 | 16x8x16 CMU U-LINTEL | (1) #5 CONT. @ BOTTOM GROUT SOLID | 8" EACH END | 2-COURSE BOND BLOCK W/ KNOCK OUT COURSE(S) ABV |
| L2 | 8x16 CMU U-LINTEL | (1) #5 CONT. @ BOTTOM GROUT SOLID | 8" EACH END | BOND BLOCK W/ KNOCK OUT COURSE(S) ABV |
| L3 | L5X3-1/2X5/16 | | 8" EACH END | LOOSE LINTEL |

GENERAL FOUNDATION NOTES:

- SEE SITE PLAN FOR EXACT WALKWAY/CURB, ETC. LOCATIONS AND FOR CONTINUATION REQUIREMENTS.
- FOOTING SIZES BASED ON AN ASSUMED 1500 psf BEARING CAPACITY.
- FOOTING ELEVATIONS SHOWN ARE APPROXIMATE ONLY. ACTUAL FOOTING STEP LOCATIONS SHALL BE AS REQUIRED IN FIELD TO MAINTAIN DEPTH BELOW FINISH GRADE. ADDITIONAL STEPS MAY BE REQUIRED TO OBTAIN SUITABLE BEARING. WHERE NEW FOOTINGS CONTACT EXISTING FOOTINGS, MATCH FOOTING DEPTH TO EXISTING.
- BELOW GRADE CONCRETE MASONRY FOUNDATION WALLS SHALL BE FW8.0 UNLESS NOTED OTHERWISE. SEE THE FOUNDATION SCHEDULE FOR SIZE AND REINFORCEMENT REQUIREMENTS.
- BACKFILL SHALL NOT BE PLACED AGAINST WALL BEYOND THE LIMITS SHOWN ON THE DETAILS. IF BACKFILLING MUST BE EXPEDITED ABOVE THE MAXIMUM HEIGHT SHOWN PRIOR TO THE INSTALLATION OF THE ELEVATED FLOOR SLAB AND THE GROUND FLOOR SLAB, TEMPORARY SHORING SHALL BE PROVIDED. CONCRETE SUBCONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AN ENGINEERED SHORING DESIGN.
- WHERE FOUNDATION WALL DECREASES IN THICKNESS, TOP COURSE OF LARGER-WYTHE CMU SHALL BE GROUTED SOLID CONTINUOUSLY TO PROVIDE A SOLID BRICK SHELF.
- ALL EARTHWORK CUT AND FILL OPERATIONS SHALL BE OBSERVED BY A LICENSED GEOTECHNICAL ENGINEER AS STIPULATED IN THE PROJECT STATEMENT OF SPECIAL INSPECTIONS. NOTIFY ENGINEER OF RECORD OF ANY ADVERSE SOIL CONDITIONS DISCOVERED THAT MAY AFFECT THE DESIGN OF ANY FOUNDATION ELEMENTS.
- ONSITE SOILS MAY BE USED FOR STRUCTURAL BACKFILLING OPERATIONS WHEN STATED IN THE PROJECT GEOTECHNICAL ENGINEER'S REPORT. SUITABLE SOILS MUST BE CLASSIFIED AS CL, ML, SC, SM, SP, SW, GC, GM, GP, OR GW PER ASTM D2487. BACKFILL MUST BE PLACED AT OPTIMUM MOISTURE CONTENT AND IN 8" MAXIMUM LIFT INCREMENTS AND COMPACTED TO AT LEAST 95% OF THE MAXIMUM DRY DENSITY PER ASTM D698. ALL BACKFILLING OPERATIONS AND FOUNDATION TRENCHES ARE TO BE OBSERVED BY AND PERFORMED IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE GEOTECHNICAL ENGINEER.

GENERAL STEEL ROOF FRAMING NOTES:

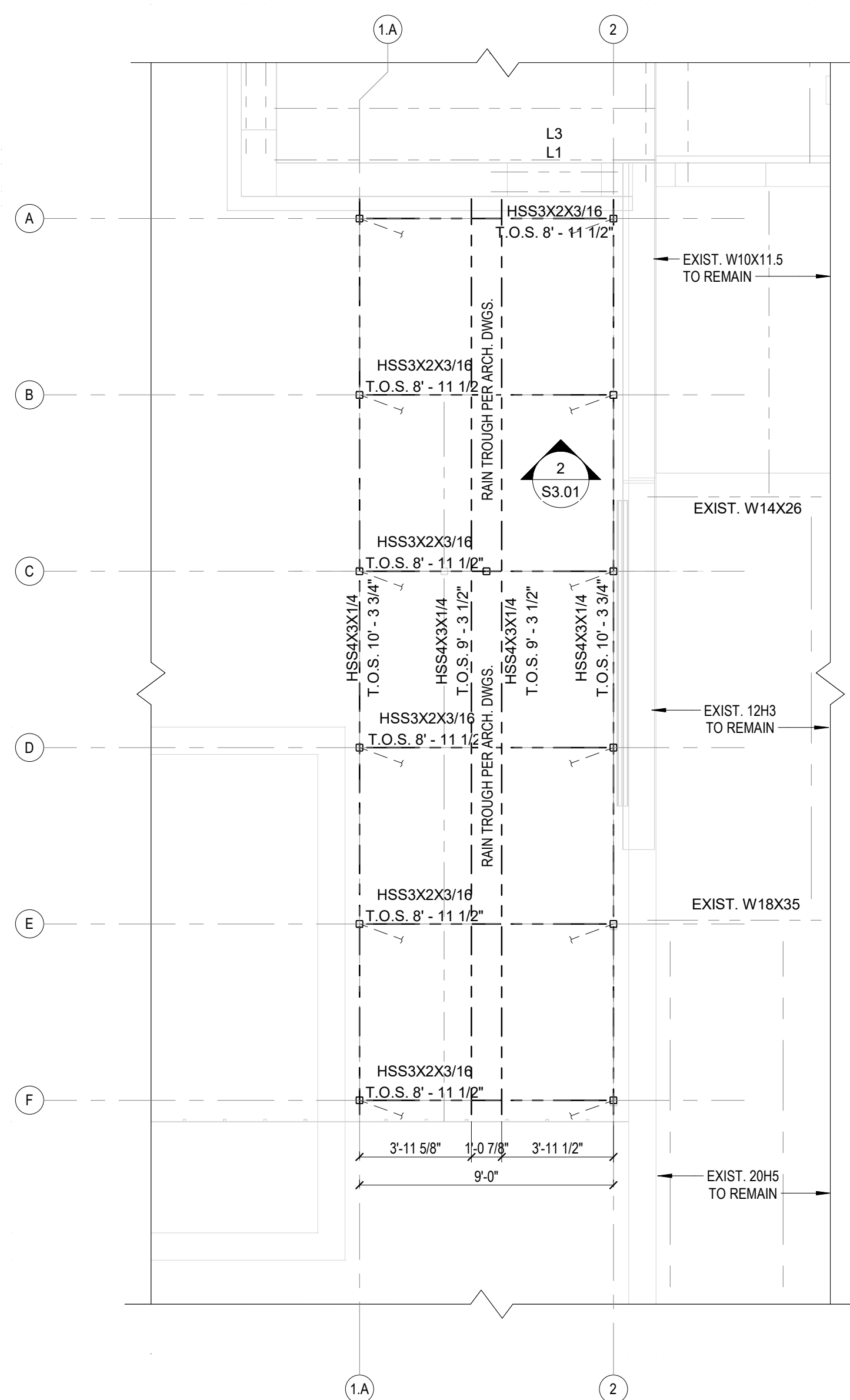
- ROOF SYSTEM SHALL BE LIGHT METAL JOISTS. SIZES SHOWN ACCOUNT FOR ALL LOADING CONDITIONS.
- LIGHT METAL JOISTS, AND THEIR CONNECTIONS TO SUPPORTING STEEL, SHALL BE DESIGNED FOR A NET UPLIFT OF 10 psf.
- METAL ROOF DECK SHALL BE 1-1/2" 22 GA. TYPE 1.5B, AND INSTALLED IN A MINIMUM (3) SPAN CONDITION. DECK SHALL BE PROVIDED PAINTED OR GALVANIZED. DECK SHALL BE ATTACHED TO THE SUPPORTING STEEL JOISTS W/ 5/8" PUDDLE WELDS @ 6" O.C. (307 PATTERN) ALONG SUPPORT CONDITIONS AT BUILDING EDGES, AND 12" O.C. (364) ALONG INTERMEDIATE FRAMING LINES. PROVIDE (2) #10 TEK SCREWS AT EACH SIDELAP PER SPAN. REFER TO STEEL DECK INSTITUTE SPECIFICATIONS, SECTION 4, FOR FURTHER INFORMATION.
- ROOF DECK EDGE SHALL EXTEND AS NOTED ON PLANS. PERIMETER OF ROOF SHALL BE PROVIDED WITH L4X4X1/4 DECK EDGE ANGLE. WHERE ROOF DECK BEARS AT A CONCRETE OR MASONRY WALL L4X4X1/4 LEDGER SHALL BE PROVIDED WITH 1/2" TITEN HD ANCHORS @ 24" ON CENTER INTO SOLID WALL.
- SEE ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONS NOT SHOWN.



**FOUNDATION PLAN -
ALTERNATE CANOPY**

3
S3.01

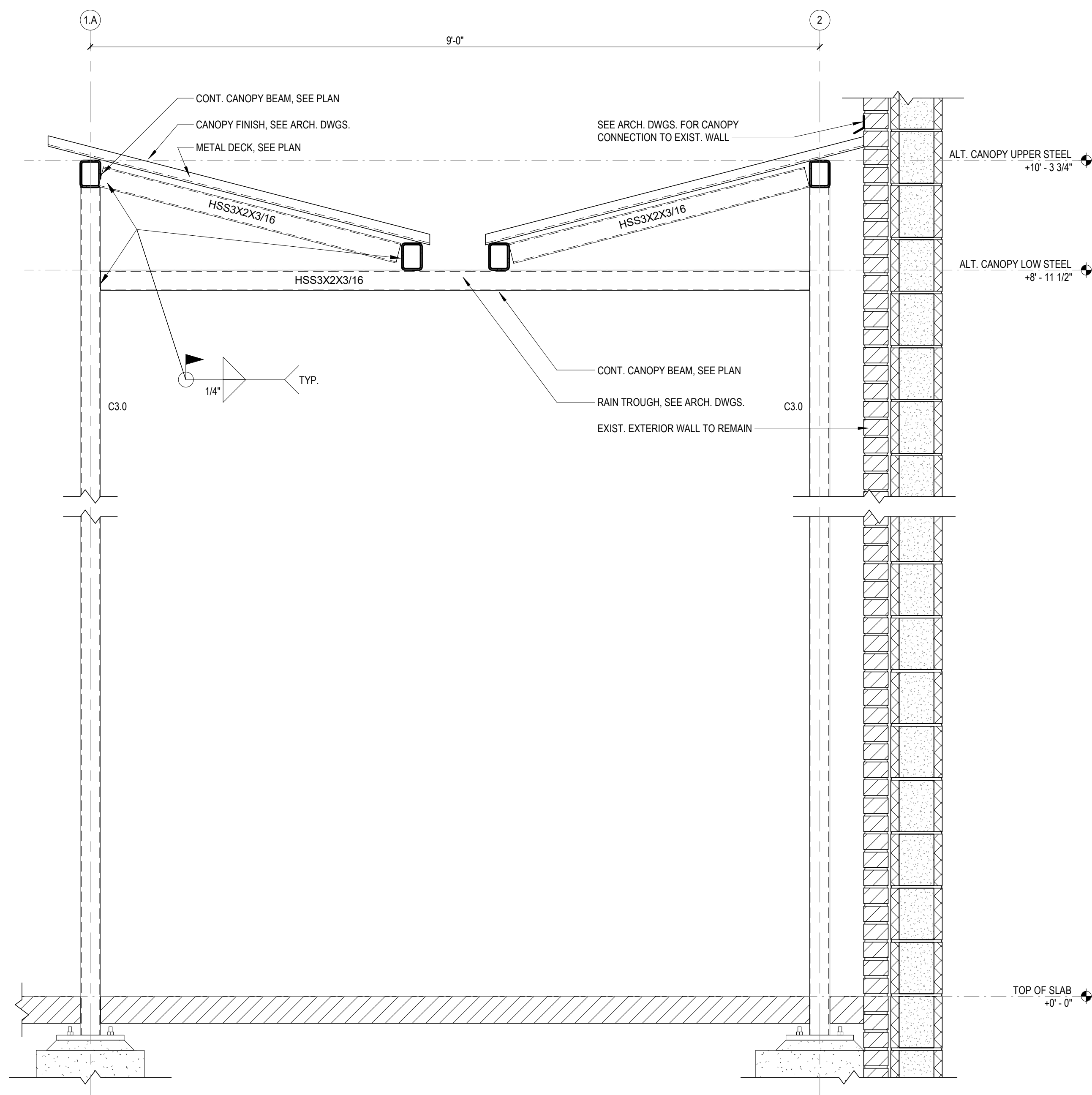
1/4" = 1'-0"



**PARTIAL FRAMING PLAN -
ALTERNATE CANOPY**

1
S3.01

1/4" = 1'-0"



**CANOPY STEEL -
ALTERNATE**

2
S3.01

1" = 1'-0"

SALEM COURTHOUSE

JURY ROOM EXPANSION

ALTERNATE CANOPY STRUCTURE

2 EAST CALHOUN STREET
SALEM, VIRGINIA 24153

DRAWN BY **WCH**
DESIGNED BY **WCH**
CHECKED BY **MJF**
DATE **08-30-2023**
SCALE **As indicated**
REVISIONS

S3.01

PROJECT NO

03220052.00



BALZER & ASSOCIATES

PLANNERS / ARCHITECTS
ENGINEERS / SURVEYORS

Roanoke / Richmond
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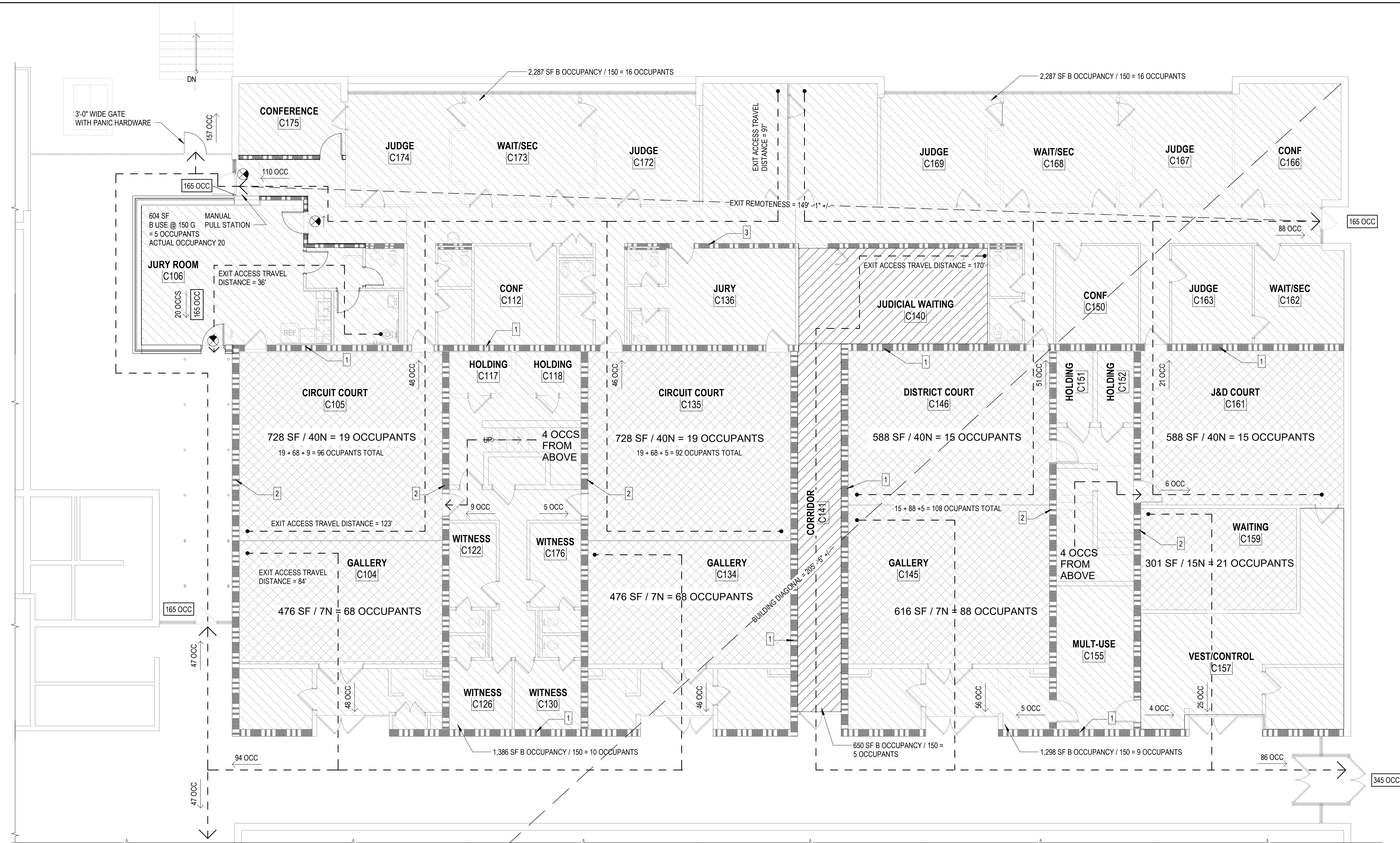
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540.772.9580



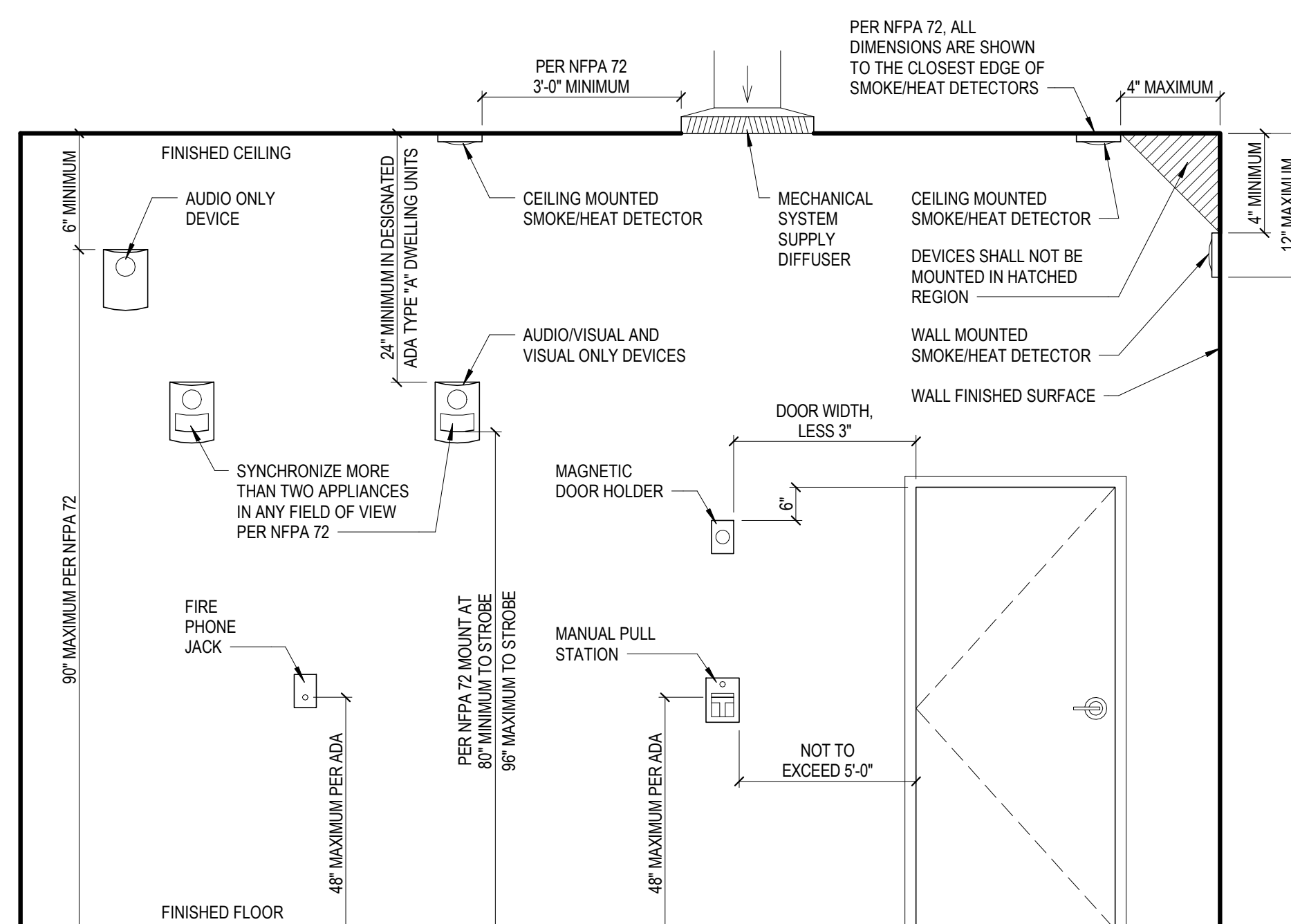
| OCCUPANCY | OCCUPANT LOAD FACTOR |
|-----------|------------------------------------|
| B USE | 150G |
| A-3 USE | 40N - COURTROOMS 7N - GALLERIES |

LIFE SAFETY KEYNOTES

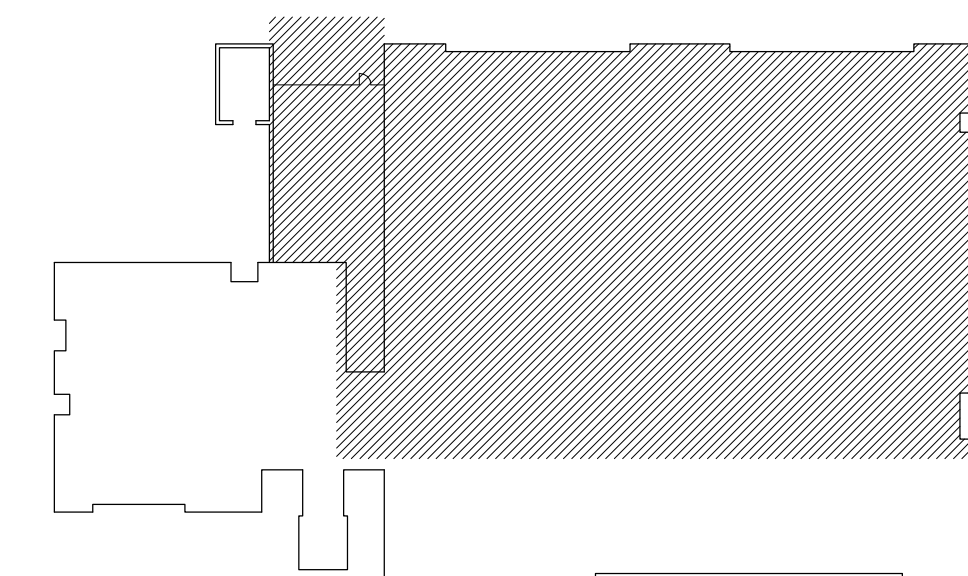
1. WALL CALLED OUT AS 2-HR IN 1976 DRAWINGS
2. WALL SHOWN AS 1'-0" MASONRY UP TO STRUCTURE IN 1976 DRAWINGS
3. WALL SHOWN AS MASONRY IN 1976 DRAWINGS



1 PARTIAL LIFE SAFETY PLAN
A0.1 NOT TO SCALE



LIFE SAFETY DEVICE HEIGHTS
NOT TO SCALE



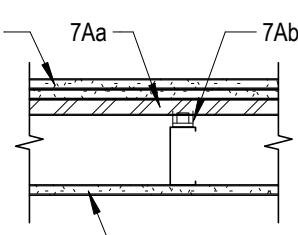
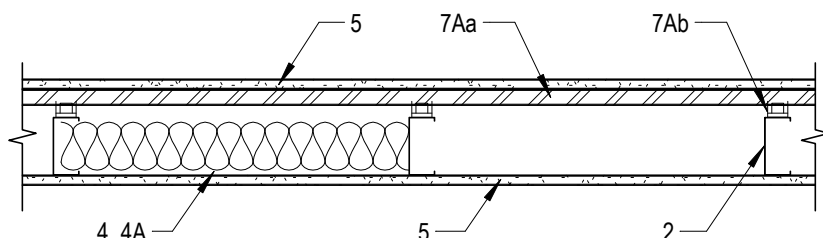
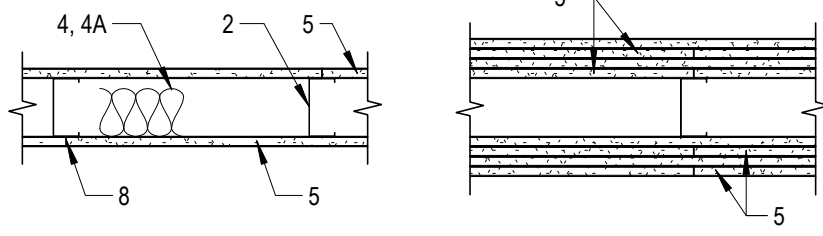
KEY PLAN - LIFE SAFETY
NOT TO SCALE

SALEM COURTHOUSE JURY ROOM EXPANSION LIFE SAFETY PLAN

DRAWN BY CJ/MFK
DESIGNED BY RWP
CHECKED BY RWP
DATE 08/30/2023
SCALE As indicated
REVISIONS

Design No. U419

June 19, 2023

Nonbearing Wall Ratings — 1, 2, 3 or 4 Hr (See Items 4 & 5 through 5J)*** Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.**

1. Floor and Ceiling Runners — (Not Shown) — For use with Item 2 — Channel shaped, fabricated from min 25 MSG corrosion-protected steel, min depth to accommodate stud size, with min 1-1/4 in. long legs, attached to floor and ceiling with fasteners 24 in. OC max.

1A. Framing Members* — Floor and Ceiling Runner — (Not Shown) — In lieu of Item 1 — For use with Item 2B, proprietary channel shaped runners, 3-5/8 in. deep attached to floor and ceiling with fasteners 24 in. OC max.

CEMCO, LLC — Viper25™ Track
CRACO MFG INC — SmartTrack25™
MARINO/WARE, DIV OF WARE INDUSTRIES INC — Viper25™ Track
IMPERIAL MANUFACTURING GROUP INC — Viper25™ Track

1B. Framing Members* — Floor and Ceiling Runner — (Not Shown) — In lieu of Item 1 — For use with Item 2C, proprietary channel shaped runners, 3-5/8 in. deep fabricated from min 0.018 in. thick galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max.

CEMCO, LLC — Viper20™ Track
MARINO/WARE, DIV OF WARE INDUSTRIES INC — Viper20™ Track
IMPERIAL MANUFACTURING GROUP INC — Viper20™ Track

1C. Framing Members* — Floor and Ceiling Runners — (Not Shown) — In lieu of Item 1 — Channel shaped, attached to floor and ceiling with fasteners 24 in. OC max.

ALLSTEEL & GYPSUM PRODUCTS INC — Type SUPREME D24/30EQD and Type SUPREME D20
CONSOLIDATED FABRICATORS CORP, BUILDING PRODUCTS DIV — Type SUPREME D24/30EQD and Type SUPREME D20
QUAIL RUN BUILDING MATERIALS INC — Type SUPREME D24/30EQD and Type SUPREME D20
SCAFCO STEEL STUD MANUFACTURING CO — Type SUPREME D24/30EQD and Type SUPREME D20
STEEL CONSTRUCTION SYSTEMS INC — Type SUPREME D24/30EQD and Type SUPREME D20
TELLING INDUSTRIES L L C — Type SUPREME D24/30EQD and Type SUPREME D20
UNITED METAL PRODUCTS INC — Type SUPREME D24/30EQD and Type SUPREME D20

1D. Floor and Ceiling Runners — (Not Shown) — For use with Item 2A — Channel shaped, fabricated from min 20 MSG corrosion-protected or galv steel, min depth to accommodate stud size, with min 1 in. long legs, attached to floor and ceiling with fasteners spaced 24 in. OC.

1E. Framing Members* — Floor and Ceiling Runners — (Not Shown, As an alternate to Item 1) — For use with Items 2E, 5F or 5G or 5I only, channel shaped, fabricated from min 0.015 in. (min bare metal thickness) galvanized steel, attached to floor and ceiling with fasteners 24 in. OC max.

CLARKDIETRICH BUILDING SYSTEMS — CD ProTRAK
DMFCWES L L C — ProTRAK
MBA METAL FRAMING — ProTRAK
RAM SALES L L C — Ram ProTRAK
STEEL STRUCTURAL PRODUCTS L L C — Tri-S ProTRAK

1F. Framing Members* — Floor and Ceiling Runners — (Not Shown) — In lieu of Item 1 — For use with Item 2F, proprietary channel shaped runners, minimum width to accommodate stud size, with 1-1/8 in. long legs fabricated from min 0.015 in. (min bare metal thickness) galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max. SUPER STUD BUILDING PRODUCTS — The Edge

1G. Framing Members* — Floor and Ceiling Runner — For use with Item 2G, proprietary channel shaped runners, minimum width to accommodate stud size attached to floor and ceiling with fasteners 24 in. OC max.

STUDDO BUILDING SYSTEMS — CROCSTUD Track

1H. Floor and Ceiling Runners — (Not Shown) — Channel shaped, fabricated from min 0.02 in. galv steel, min width to accommodate stud size, with min 1 in. long legs, for use with studs specified below and fabricated from min 0.018 in. galv steel or thicker, attached to floor and ceiling with fasteners spaced max 24 in. OC.

MARINO/WARE, DIV OF WARE INDUSTRIES INC — Viper20™ Track T1700

IMPERIAL MANUFACTURING GROUP INC — Viper20™ Track T1700

1I. Framing Members* — Floor and Ceiling Runners — (Not Shown, As an alternate to Item 1) — For use with Items 2H, channel shaped, fabricated from min 0.015 in. (min bare metal thickness) galvanized steel, attached to floor and ceiling with fasteners 24 in. OC max.
TELLING INDUSTRIES L L C — TRUE-TRACK™

1J. Framing Members* — Floor and Ceiling Runner — (Not Shown) — In lieu of Item 1 — For use with Item 2I, proprietary channel shaped runners, 3-5/8 in. deep attached to floor and ceiling with fasteners 24 in. OC max.

1K. Framing Members* — Floor and Ceiling Runner — (Not Shown) — In lieu of Item 1 — For use with Item 2J, proprietary channel shaped runners, 1-1/4 in. wide by 3-5/8 in. deep fabricated from min 0.018 in. thick galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max.

1L. Framing Members* — Floor and Ceiling Runner — (Not Shown) — In lieu of Item 1 — For use with Item 2N, proprietary channel shaped runners, 1-1/4 in. wide by min 3-1/2 in. deep fabricated from min 0.018 in. thick galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max.
RESCUE METAL FRAMING, L L C — AlphaTRAK

1M. Framing Members* — Floor and Ceiling Runners — (Not Shown) — As an alternate to Item 1 — For use with Item 2O, proprietary channel shaped runners, min width to accommodate stud size, galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max.
RONDO BUILDING SERVICES PTY LTD — Rondo Wall Track

1N. Framing Members* — Floor and Ceiling Runners — (Not Shown) — As an alternate to Item 1 — For use with Item 2P, proprietary channel shaped runners, min width to accommodate stud size, galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max.
OEG BUILDING MATERIALS — OEG Track

1O. Framing Members* — Floor and Ceiling Runner — (Not Shown) — In lieu of Item 1 — For use with Item 2Q, proprietary channel shaped runners, min width to accommodate stud size, fabricated from min 25 MSG (0.018 in. min. bare metal thickness), attached to floor and ceiling with fasteners spaced 24 in. OC max.
CEMCO, LLC — Viper X Track

2. Steel Studs — Channel shaped, fabricated from min 25 MSG corrosion-protected steel, min depth as indicated under Item 5, spaced a max of 24 in. OC. Studs to be cut 3/8 to 3/4 in. less than assembly height.

2A. Steel Studs — (As an alternate to Item 2, For use with Items 5B, 5E, 5H, 5J or Type ULX) — Channel shaped, fabricated from min 20 MSG corrosion-protected or galv steel, 3-1/2 in. min. depth, spaced a max of 16 in. OC. Studs friction-fit into floor and ceiling runners. Studs to be cut 5/8 to 3/4 in. less than assembly height.

2B. Framing Members* — Steel Studs — (As an alternate to Item 2, For use with Items 5C, 5I or Type ULX) — Proprietary channel shaped studs, 3-5/8 in. deep spaced a max of 24 in. OC. Studs to be cut 3/4 in less than the assembly height and installed with a 1/2 in. gap between the end of the stud and track at the bottom of the wall. For direct attachment of gypsum board only.

CEMCO, LLC — Viper25™
CRACO MFG INC — SmartStud25™
MARINO/WARE, DIV OF WARE INDUSTRIES INC — Viper25™
IMPERIAL MANUFACTURING GROUP INC — Viper25™

2C. Framing Members* — Steel Studs — (Not Shown) — In lieu of Item 2 — proprietary channel shaped steel studs, min depth as indicated under Item 5, spaced a max of 24 in. OC, fabricated from min 0.018 in. thick galv steel. Studs cut 3/8 to 3/4 in. less in lengths than assembly heights.

CEMCO, LLC — Viper20™
MARINO/WARE, DIV OF WARE INDUSTRIES INC — Viper20™
IMPERIAL MANUFACTURING GROUP INC — Viper20™

2D. Framing Members* — Steel Studs — In lieu of Item 2 — Channel shaped studs, min depth as indicated under Item 5, spaced a max of 24 in. OC. Studs to be cut 3/4 in. less than assembly height.

ALLSTEEL & GYPSUM PRODUCTS INC — Type SUPREME D24/30EQD and Type SUPREME D20
CONSOLIDATED FABRICATORS CORP, BUILDING PRODUCTS DIV — Type SUPREME D24/30EQD and Type SUPREME D20
QUAIL RUN BUILDING MATERIALS INC — Type SUPREME D24/30EQD and Type SUPREME D20
SCAFCO STEEL STUD MANUFACTURING CO — Type SUPREME D24/30EQD and Type SUPREME D20
STEEL CONSTRUCTION SYSTEMS INC — Type SUPREME D24/30EQD and Type SUPREME D20
TELLING INDUSTRIES L L C — Type SUPREME D24/30EQD and Type SUPREME D20
UNITED METAL PRODUCTS INC — Type SUPREME D24/30EQD and Type SUPREME D20

2E. Framing Members* — Steel Studs — (Not Shown, As an alternate to Item 2) — For use with Items 5F or 5G or 5I or Type ULX only, channel shaped studs, min depth as indicated under Item 5F, 5G or 5I, fabricated from min 0.015 in. (min bare metal thickness) galvanized steel, spaced a max of 24 in. OC. Studs to be cut 3/4 in. less than assembly height.

CLARKDIETRICH BUILDING SYSTEMS — CD ProSTUD
DMFCWES L L C — ProSTUD
MBA METAL FRAMING — ProSTUD
RAM SALES L L C — Ram ProSTUD
STEEL STRUCTURAL PRODUCTS L L C — Tri-S ProSTUD

2F. Framing Members* — Steel Studs — (Not Shown) — In lieu of Item 2 — proprietary channel shaped steel studs, minimum width indicated under Item 5, 1-1/4 in. deep fabricated from min 0.015 in. (min bare metal thickness) galvanized steel. Studs 3/8 in. to 3/4 in. less in lengths than assembly heights.
SUPER STUD BUILDING PRODUCTS — The Edge

2G. Framing Members* — Steel Studs — (Not Shown) — In lieu of Item 2 — proprietary channel shaped studs, minimum width indicated under Item 5. Studs to be cut 3/8 to 3/4 in less than the assembly height.
STUDDO BUILDING SYSTEMS — CROCSTUD

2H. Framing Members* — Steel Studs — (Not Shown, As an alternate to Item 2) — Fabricated from min 0.015 in. (min bare metal thickness) galvanized steel, spaced a max of 24 in. OC. Studs to be cut 3/4 in. less than assembly height.
TELLING INDUSTRIES L L C — TRUE-STUD™

2I. Framing Members* — Steel Studs —

2J. Framing Members* — Metal Studs — (Not Shown) — In lieu of Item 2 — proprietary channel shaped steel studs, min depth as indicated under Item 5, spaced a max of 24 in. OC, fabricated from min 0.018 in. thick galv steel. Studs cut 3/8 in. to 3/4 in. less in lengths than assembly heights

2K. Framing Members* — Steel Studs — As an alternate to Item 2 — For use with Item 1, channel shaped studs, fabricated from min 25 MSG corrosion-protected steel, min depth as indicated under Item 5, spaced a max of 24 in. OC. Studs to be cut 3/8 to 3/4 in. less than assembly height.
EB METAL INC — NITROSTUD

2L. Framing Members* — Steel Studs — As an alternate to Item 2 — For use with Item 1, channel shaped studs, fabricated from min 25 MSG corrosion-protected steel, min depth as indicated under Item 5, spaced a max of 24 in. OC. Studs to be cut 3/8 to 3/4 in. less than assembly height.
OLMAR SUPPLY INC — PRIMESTUD

2M. Framing Members* — Steel Studs — As an alternate to Item 2 — For use with Item 1, channel shaped studs, fabricated from min 25 MSG corrosion-protected steel, min depth as indicated under Item 5, spaced a max of 24 in. OC. Studs to be cut 3/8 to 3/4 in. less than assembly height.
MARINO/WARE, DIV OF WARE INDUSTRIES INC — StudRite™

2N. Framing Members* — Steel Studs — As an alternate to Item 2 — proprietary channel shaped steel studs, min depth 3-1/2 in. and as indicated under Item 5, spaced a max of 24 in. OC, fabricated from min 0.018 in. thick galv steel. Studs cut 3/8 in. to 3/4 in. less in length than assembly height.
RESCUE METAL FRAMING, L L C — AlphaSTUD

2O. Framing Members* — Steel Studs — As an alternate to Item 2 — proprietary channel shaped steel studs, min width as indicated under Item 5, galv steel. Studs to be cut 3/8 to 3/4 in. less in lengths than assembly height. Spaced 24 in. OC max.
RONDO BUILDING SERVICES PTY LTD — Rondo Lipped Wall Stud

2P. Framing Members* — Steel Studs — As an alternate to Item 2 — proprietary channel shaped steel studs, min width as indicated under Item 5, min 25 MSG galv steel. Studs to be cut 3/8 to 3/4 in. less in lengths than assembly height. Spaced 24 in. OC max.
OEG BUILDING MATERIALS — OEG Stud

2Q. Framing Members* — Steel Studs — (Not Shown) — In lieu of Item 2 — For use with Item 1O, proprietary channel shaped steel studs, min depth as indicated under Item 5, spaced a max of 24 in. OC, fabricated from min 25 MSG (0.018 in. min. bare metal thickness). Studs cut 3/8 in. to 3/4 in. less in lengths than assembly heights.
CEMCO, LLC — Viper X

3. Wood Structural Panel Sheathing — (Optional, For use with Item 5 Only) — (Not Shown) — 4 ft wide, 7/16 in. thick oriented strand board (OSB) or 1/2 in. thick structural 1 sheathing (plywood) complying with DOC P51 or P52, or APA Standard PRP-108, manufactured with exterior glue, applied horizontally or vertically to the steel studs. Vertical joints centered on studs, and staggered one stud space from wallboard joints. Attached to studs with flat-head self-drilling tapping screws with a min. head diam. of 0.292 in. a maximum 6 in. OC. in the perimeter and 12 in. OC. in the field. When used, gypsum panels attached over OSB or plywood panels and fastener lengths for gypsum panels increased by min. 1/2 in.

4. Batts and Blankets* — (Required as indicated under Item 5) — Mineral wool batts, friction fitted between studs and runners. Min nom thickness as indicated under Item 5.
See Batts and Blankets (BKNV or BZJZ) Categories for names of Classified companies.

4A. Batts and Blankets* — (Optional) — Placed in stud cavities, any glass fiber or mineral wool insulation bearing the UL Classification Marking as to Surface Burning Characteristics and/or Fire Resistance.
See Batts and Blankets (BKNV or BZJZ) Categories for names of Classified companies.

4B. Fiber, Sprayed* — (Optional, for use with Type ULX) — Insulation is required - Spray applied granulated mineral fiber material. The fiber is applied with adhesive at a minimum density of 4.0 pcf to completely fill the wall cavity in accordance with the application instructions supplied with the product. See Fiber, Sprayed (CCAZ).
AMERICAN ROCKWOOL MANUFACTURING, LLC — Type Rockwool Premium Plus

4C. Foamed Plastic* — (Where Batts and Blankets*, Item 4, are optional, for use with Item 5K) — Spray applied, foamed plastic insulation, at any thickness from partial fill to completely filling stud cavity, for 2 hour rated assemblies only. When foamed plastic is used, minimum stud depth shall be 3-1/2 in.

CARLISLE SPRAY FOAM INSULATION — Types SealTite Pro Closed Cell (CC), SealTite Pro Open Cell (OC), SealTite Pro OCX, SealTite Pro No Trim 21, SealTite Pro One Zero, Foamsulate Closed Cell, Foamsulate OCX, Foamsulate 70, and Foamsulate HFO.

4D. Foamed Plastic* — (Where Batts and Blankets*, Item 4, are optional, for use with Item 5L) — Spray applied, foamed plastic insulation, at any thickness from partial fill to completely filling stud cavity, for up to 2 hour rated assemblies only. When foamed plastic is used, minimum stud depth shall be 3-1/2 in. with minimum 20 MSG steel thickness.

BASF CORP - Enerlite® NM, Enerlite® G, FE178®, Spraytite® 178, Spraytite® 81206, Walltite® 200, Walltite® US, Walltite® US-N, Walltite® HF, FE137®, FE158®, Spraytite® 158, Spraytite® SF and Spraytite® 81205

5. Gypsum Board* — Gypsum panels with beveled, square or tapered edges, applied vertically or horizontally. Vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Vertical joints in adjacent layers (multilayer systems) staggered one stud cavity. Horizontal joints need not be backed by steel framing. Horizontal edge joints and horizontal butt joints on opposite sides of studs need not be staggered. Horizontal edge joints and horizontal butt joints in adjacent layers (multilayer systems) staggered a min of 12 in. Horizontal edge joints and horizontal butt joints in adjacent layers (multilayer systems) with Type ULX need not be staggered. The thickness and number of layers for the 1 hr, 2 hr, 3 hr and 4 hr ratings are as follows:

Gypsum Board Protection on Each Side of Wall

| Rating, Hr | Min Stud Depth, in. Items 2, 2C, 2D, 2F, 2G, 2O | No. of Layers & Thkns of Panel | Min. Thkns of Insulation (Item 4) |
|------------|---|--------------------------------|-----------------------------------|
| 1 | 3-1/2 | 1 layer, 5/8 in. thick | Optional |
| 2 | 2-1/2 | 1 layer, 1/2 in. thick | Optional |
| 2 | 1-5/8 | 1 layer, 3/4 in. thick | Optional |
| 2 | 1-5/8 | 2 layers, 1/2 in. thick | Optional |
| 2 | 1-5/8 | 2 layers, 5/8 in. thick | Optional |
| 2 | 1-5/8 | 3 layers, 5/8 in. thick | Optional |
| 2 | 1-5/8 | 4 layers, 1/2 in. thick | Optional |
| 2 | 1-5/8 | 4 layers, 3/4 in. thick | Optional |
| 2 | 1-5/8 | 3 layers, 5/8 in. thick | Optional |
| 2 | 1-5/8 | 4 layers, 5/8 in. thick | Optional |
| 2 | 1-5/8 | 4 layers, 1/2 in. thick | Optional |
| 2 | 2-1/2 | 2 layers, 3/4 in. thick | 2 in. |

CGC INC — 1/2 in. thick Type C, IP-X2 or IPC-AR; WRC, 5/8 in. thick Type AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULX, WRX or WRC; 3/4 in. thick Types IP-X3 or ULTRACODE

THE SIAM GYPSUM INDUSTRY (SONGKHLA) CO — 1/2 in. thick Type C and 5/8 in. thick Type SCX

UNITED STATES GYPSUM CO — 1/2 in. thick Type C, IP-X2, IPC-AR or WRC; 5/8 in. thick Type SCX, SGX, SHX, ULX, WRX, IP-X1, AR, C, WRC, FRX-G, IP-AR, IP-X2, IPC-AR; 3/4 in. thick Types IP-X3 or ULTRACODE

USG BORAL DRYWALL SFZ LLC — 1/2 in. Type C, 5/8 in. Types C, SCX, SGX, ULTRACODE

USG MEXICO S A DE C V — 1/2 in. thick Type C, IP-X2, IPC-AR or WRC; 5/8 in. thick Type AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, WRX, WRC or; 3/4 in. thick Types IP-X3 or ULTRACODE

When Item 7B, Steel Framing Members*, is used, Nonbearing Wall Rating is limited to 1 Hr. min. stud depth is 3-1/2 in., min. thickness of insulation in Item 5 is 1 3/8 in. and two layers of gypsum board panels (1/2 in. or 5/8 in. thick) shall be attached to turning channels as described in Item 6. One layer of gypsum board panels (1/2 in. or 5/8 in. thick) attached to opposite side of stud without turning channels as described in Item 6.

5A. Gypsum Board* — (As an alternate to Item 5) — 5/8 in. thick, 24 to 54 in. wide, applied horizontally as the outer layer to one side of the assembly. Secured as described in Item 6.

CGC INC — Type SHX
UNITED STATES GYPSUM CO — Type FRX-G, SHX
USG MEXICO S A DE C V — Type SHX

5B. Gypsum Board* — (Not Shown) — As an alternate to Item 5 when used as the base layer on one or both sides of wall when 5/8 in or 3/4 in. thick products are specified. For direct attachment only to steel studs Item 2A, (not to be used with Item 3) — Nom 5/8 in. or 3/4 in. may be used as alternate to all 5/8 in. or 3/4 in. shown in Item 5, Wallboard Protection on Each Side of Wall table. Nom 5/8 in. or 3/4 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs. Wallboard secured to studs with 1-1/4 in. long Type S-12 steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field. To be used with Lead Batten Strips (see Item 11) or Lead Discs or Tabs (see Item 12).

RAY-BAR ENGINEERING CORP — Type RB-LBG

5C. Gypsum Board* — (For Use With Item 2B) — Rating Limited to 1 Hour, 5/8 in. thick, 48 in. wide, Gypsum panels with beveled, square or tapered edges, applied vertically or horizontally. (Vertical Application) — The gypsum board is to be installed on each side of the studs with 1 in. long Type S coated steel screws spaced 8 in. OC starting 4 in. from the edge of the board at the vertical edges and 12 in. OC starting 6 in. from the edge of the board at the center of each board. Gypsum boards are to be secured to the top and bottom track with screws spaced 8 in. OC starting 4 in. from the board edge. Fasteners shall not penetrate through both the stud and the track at the same time. Vertical joints are to be centered over studs and staggered one stud cavity on opposite sides of studs. (Horizontal Application) — The gypsum board is to be installed on each side of the studs with 1 in. long Type S coated steel screws spaced 8 in. OC starting 4 in. from the edge of the board at the vertical edges and 12 in. OC starting 6 in. from the edge of the board at the center of each board. Gypsum boards are to be secured to the top and bottom track with screws spaced 8 in. OC starting 4 in. from the board edge. Fasteners shall not penetrate through both the stud and the track at the same time. All horizontal joints are to be backed as outlined under section VI of Volume 1 in the Fire Resistive Directory.

CGC INC — Type SCX, ULX
THE SIAM GYPSUM INDUSTRY (SONGKHLA) CO — Type SCX
UNITED STATES GYPSUM CO — Type SCX, SGX, ULX
USG BORAL DRYWALL SFZ LLC — Type SCX
USG MEXICO S A DE C V — Type SCX

5D. Gypsum Board* — (As an alternate to Item 5) — 5/8 in. thick, 48 in. wide, applied vertically or horizontally. Secured as described in Item 6. For use with Items 1 and 2 only.

CGC INC — Type USGX
UNITED STATES GYPSUM CO — Type USGX
USG BORAL DRYWALL SFZ LLC — Type USGX
USG MEXICO S A DE C V — Type USGX

5E. Gypsum Board* — (Not Shown) — (As an alternate to Item 5 when used as the base layer on one or both sides of wall when 1/2 in. or 5/8 in. thick products are specified. For direct attachment only to steel studs Item 2A, not to be used with Item 3). Nominal 5/8 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs. Wallboard secured to studs with 1-1/4 in. long Type S-12 (or 6 by 1-1/4 in. long bugle head fine drillers) steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field.
NEW ENGLAND LEAD BURNING CO INC, DBA NELCO — Nelco

5F. Gypsum Board* — (As an alternate to Item 5) — For use with Items 1E and 2E and limited to 1 Hour Rating only, Gypsum panels with beveled, square or tapered edges, applied vertically, and fastened to the steel studs with 1 in. long Type S screws spaced 8 in. OC along vertical and bottom edges and 12 in. OC in the field. Vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Steel stud depth shall be a minimum 3-5/8 in.

THE SIAM GYPSUM INDUSTRY (SONGKHLA) CO — Type SCX
UNITED STATES GYPSUM CO — 5/8 in. thick Type SCX, SGX, ULX
USG BORAL DRYWALL SFZ LLC — 5/8 in. thick Type SCX, SGX

5G. Gypsum Board* — (As an alternate to Item 5) — For use with Items 1E and 2E only, Gypsum panels with beveled, square or tapered edges, applied vertically or horizontally, as specified in the table below and fastened to the steel studs as described in Item 6. Vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Vertical joints in adjacent layers (multilayer systems) staggered one stud cavity. Horizontal joints need not be backed by steel framing. Horizontal edge joints and horizontal butt joints on opposite sides of studs need not be staggered. Horizontal edge joints and horizontal butt joints in adjacent layers (multilayer systems) staggered a min of 12 in. The thickness and number of layers for the 2 hr, 3 hr and 4 hr ratings are as follows:

Gypsum Board Protection on Each Side of Wall

| Rating, Hr | Min Stud Depth, in. Item 2E | No. of Layers & Thkns of Panel | Min. Thkns of Insulation (Item 4) |
|------------|-----------------------------|--------------------------------|-----------------------------------|
| 2 | 1-5/8 | 2 layers, 1/2 in. thick | Optional |
| 2 | 1-5/8 | 2 layers, 5/8 in. thick | Optional |
| 3 | 1-5/8 | 3 layers, 1/2 in. thick | Optional |
| 3 | 1-5/8 | 3 layers, 5/8 in. thick | Optional |
| 4 | 1-5/8 | 4 layers, 5/8 in. thick | Optional |
| 4 | 1-5/8 | 4 layers, 1/2 in. thick | Optional |

CGC INC — 1/2 in. thick Type C, IP-X2 or IPC-AR; 5/8 in. thick Type AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULX or 3/4 in. thick Types IP-X3 or ULTRACODE



BALZER & ASSOCIATES

PLANNERS / ARCHITECTS
ENGINEERS / SURVEYORS

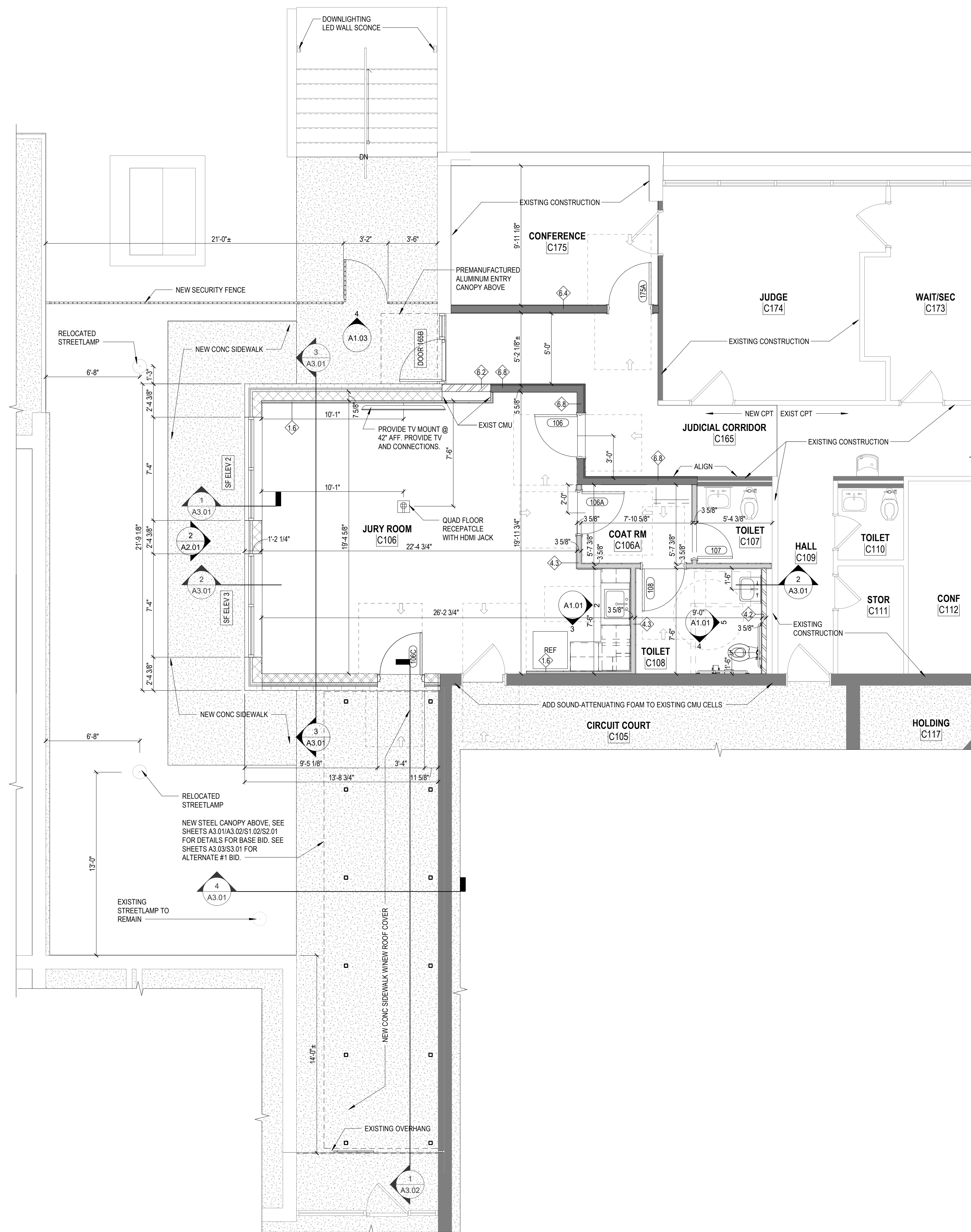
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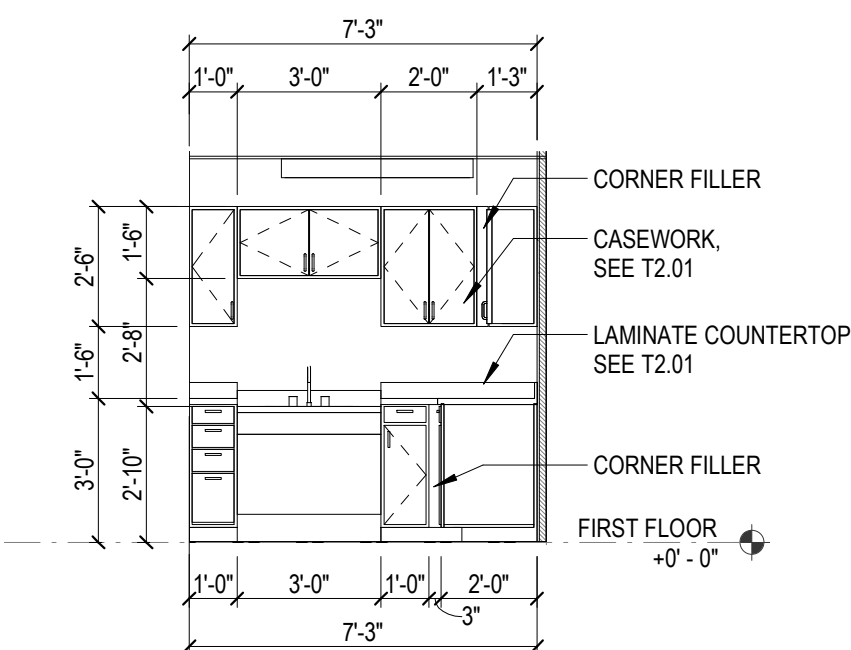
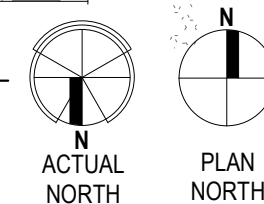
Roanoke, VA 24018

540.772.9580



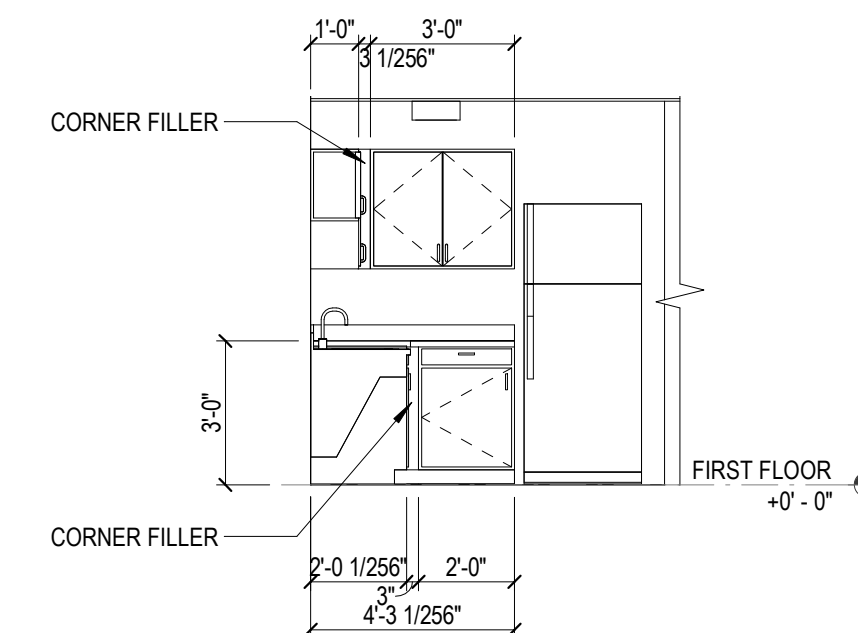
1 RENOVATION/ADDITION FLOOR PLAN

1/4" = 1'-0"



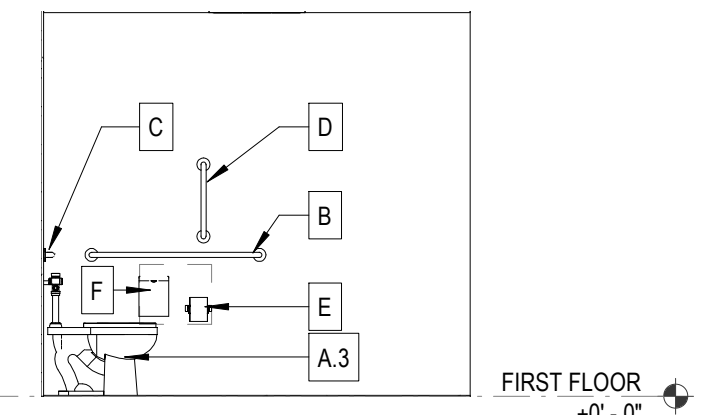
2 KITCHEN ELEV

1/4" = 1'-0"



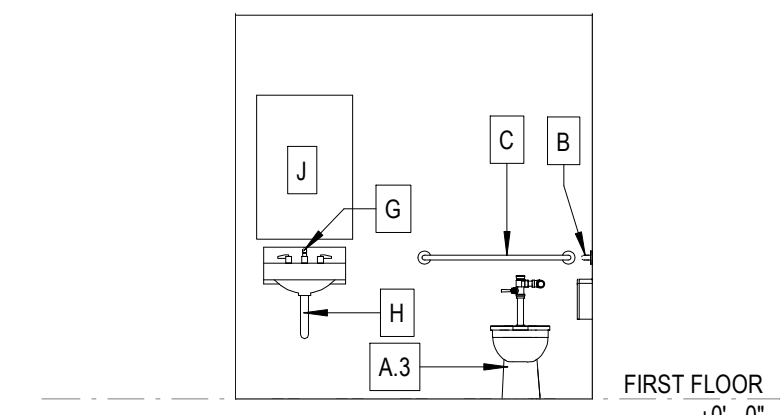
3 KITCHEN ELEV

1/4" = 1'-0"



4 TOILET ELEV

1/4" = 1'-0"



5 TOILET ELEV

1/4" = 1'-0"

RESTROOM ACCESSORY SCHEDULE

| MARK | DESCRIPTION | BASIS-OF-DESIGN | MODEL | DESCRIPTION | MOUNTING HEIGHT | COMMENTS |
|------|--------------------------------|-------------------|------------------|--|--|-----------------|
| A.3 | FLUSH VALVE WATER CLOSET (ADA) | American Standard | 3043.001 | SEE SHEET P1.1 | | |
| B | SIDE WALL GRAB BAR | BOBRICK | B-6806 99x42 | STRAIGHT PEENED GRAB BAR | 33"-36" ABOVE FINISHED FLOOR TO TOP OF BAR | REINFORCED WALL |
| C | REAR WALL GRAB BAR | BOBRICK | B-5806 99x36 | STRAIGHT PEENED GRAB BAR | 33"-36" ABOVE FINISHED FLOOR TO TOP OF BAR | REINFORCED WALL |
| D | VERTICAL GRAB BAR | BOBRICK | B-5806 99x18 | STRAIGHT PEENED GRAB BAR | 33"-36" ABOVE FINISHED FLOOR TO BOTTOM OF BAR | REINFORCED WALL |
| E | TOILET PAPER DISPENSER | BOBRICK | B-2730 | SINGLE-ROLL TOILET TISSUE DISPENSER | 24" ABOVE FINISHED FLOOR TO TOP | |
| F | SANITARY NAPKIN DISPOSAL | BOBRICK | B-270 | SURFACE MOUNTED SANITARY NAPKIN DISPOSAL | SEE ADA REFERENCE DETAILS | |
| G | WALL MOUNTED LAVATORY | AMERICAN STANDARD | LUCERNE 0355.012 | WHITE WITH ADA FAUCET | 34" ABOVE FINISHED FLOOR TO TOP OF SINK RIM | |
| H | DRAIN INSULATION | TRUBRO | 102 E-2 | MOUNTED TO SINK DRAIN LINE | SEE ADA REFERENCE DETAILS | |
| J | 2'-0" WIDE X 3'-0" TALL MIRROR | BOBRICK | B-165-2436 | STAINLESS STEEL FRAME | 40" ABOVE FINISHED FLOOR TO BOTTOM OF REFLECTIVE SURFACE | |

ROOM FINISH SCHEDULE

| NO. | ROOM NAME | FLOOR | BASE | WALL | | CEILING | | REMARKS |
|-------|-------------------|-------|------|-------------|--------|---------|--------|---------|
| | | | | MTL. | FINISH | MTL. | FINISH | |
| C106 | JURY ROOM | FL1 | RB | CMU/GWB | PAINT | ACT2 | 1, 3 | |
| C106A | COAT RM | FL2 | RB | GWB | PAINT | ACT2 | 3 | |
| C107 | TOILET | FL2 | RB | CMU/GWB | PAINT | ACT2 | 3 | |
| C108 | TOILET | FL2 | RB | GWB | PAINT | ACT2 | 3 | |
| C165 | JUDICIAL CORRIDOR | FL1 | RB | MATCH EXIST | PAINT | ACT1 | 2 | |
| C175 | CONFERENCE | FL1 | RB | GWB | PAINT | ACT2 | 3 | |

FLOOR TYPE

FL1 CPT FLOOR FINISH IS CARPET SQUARES. SEE SPECIFICATION, SHEET T2.01.

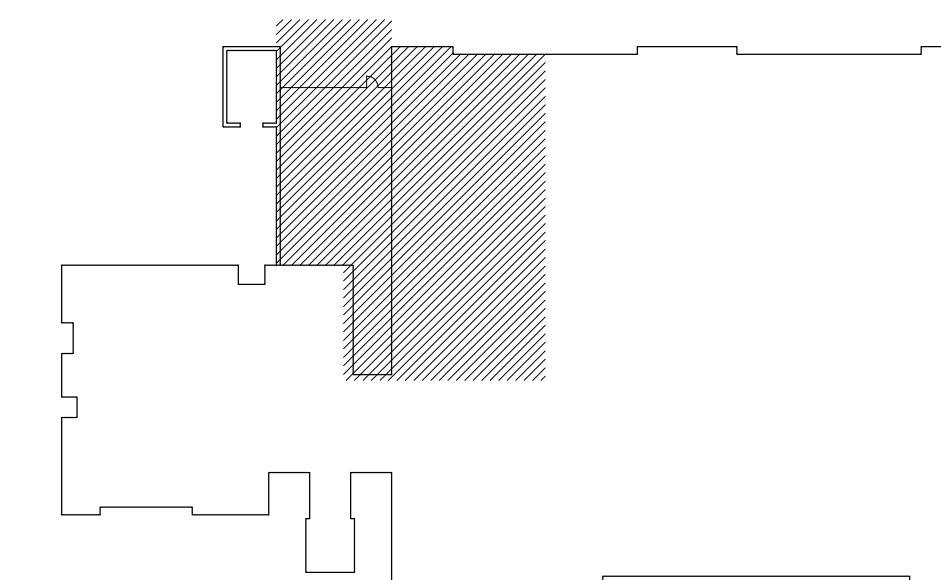
FL2 CONC FLOOR FINISH TO BE POLISHED CONCRETE WITH SEMI-OPAQUE STAIN. SEE SPECIFICATION, SHEET T2.01.

REMARKS

1. INSIDE OF NON-FURRED CMU WALLS IN JURY ROOM SHALL BE SKIM COATED PLASTER.

2. ACT1 TO BE 12X12 CONCEALED GRID TO MATCH EXISTING IN CORRIDORS, SEE SPECIFICATION, SHEET T2.01.

3. ACT2 TO BE 24 X 24 SUSPENDED ACOUSTICAL CEILING, SEE SPECIFICATION, SHEET T2.01.



KEY PLAN

NOT TO SCALE

SALEM COURTHOUSE

JURY ROOM EXPANSION

RENOVATION/ADDITION FLOOR PLAN

DRAWN BY

CJ/MFK

DESIGNED BY

RWP

CHECKED BY

RWP

DATE

08/30/2023

SCALE

As indicated

REVISIONS

A1.01

PROJECT NO

03220052.00



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SALEM COURTHOUSE
JURY ROOM EXPANSION
REFLECTED CEILING PLAN, ROOF PLAN

2 EAST CALHOUN STREET
SALEM, VIRGINIA 24153

DRAWN BY CJ/MFK
DESIGNED BY RWP
CHECKED BY RWP
DATE 08/30/2023
SCALE As indicated
REVISIONS

A1.02
PROJECT NO 03220052.00

CEILING TYPES

| MARK | DESCRIPTION |
|---------|----------------------------|
| ACT 2.0 | 2x2' ACOUSTIC CEILING GRID |
| ACT 4.0 | 2x4' ACOUSTIC CEILING GRID |
| GYP 1.0 | 5/8" GYP ON WOOD FRAMING |

CANOPY

CAPACITY OF VERTICAL RAINFALL CONDUCTORS AND LEADERS
REFERENCED VPC SECTION/TABLE 1106.2(2)

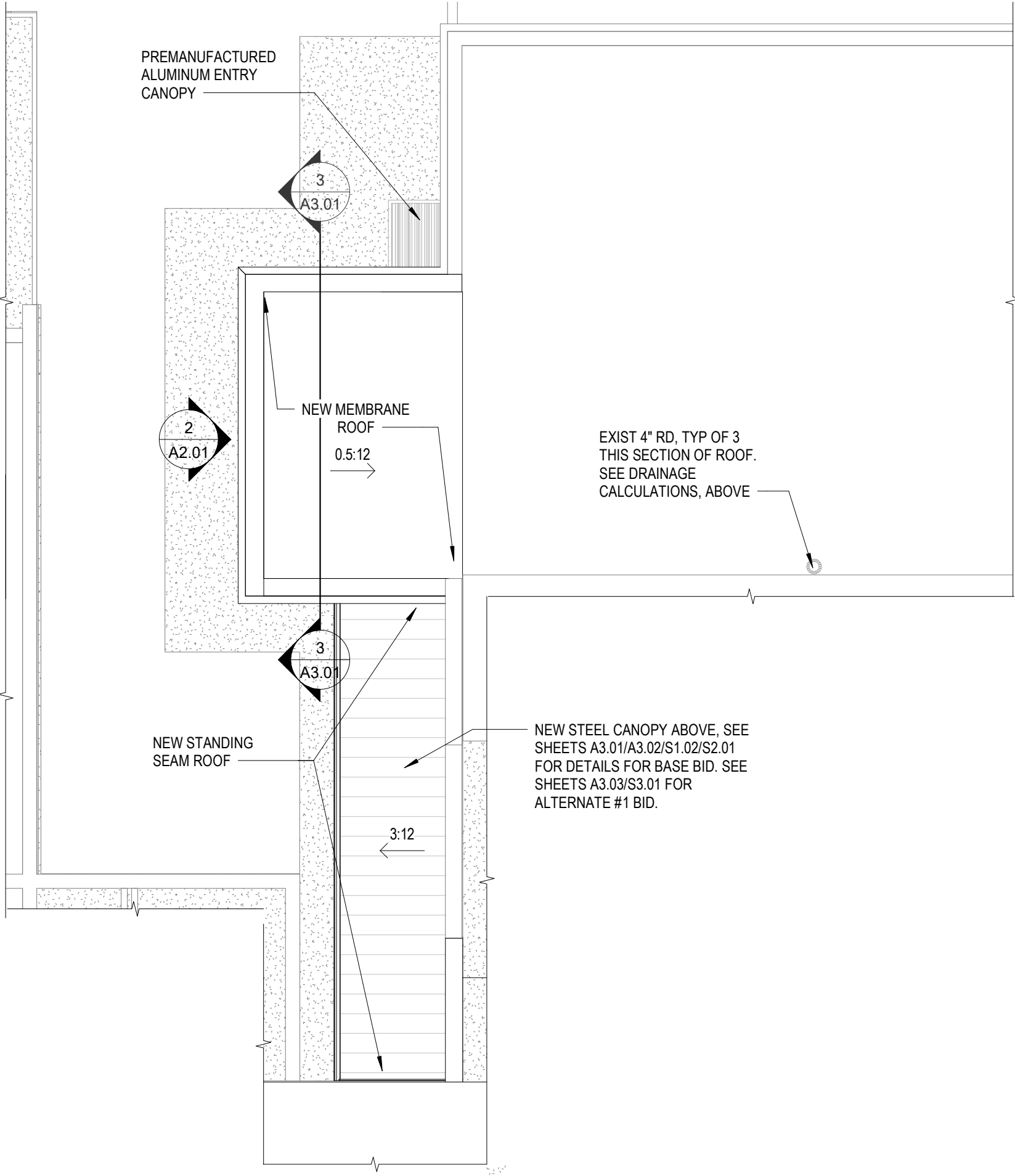
(1) 3"x4" LEADER PROPOSED WITH AN EFFECTIVE CAPACITY OF 3,300 SF AT 4.0 IN/HR RAINFALL. 3,300 SF IS GREATER THAN 463 SF (EFFECTIVE TOTAL ROOF AREA).

ROOF

CAPACITY OF VERTICAL RAINFALL CONDUCTORS AND LEADERS
REFERENCED VPC SECTION/TABLE 1106.2(2)

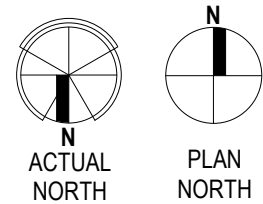
NO NEW LEADERS PROPOSED. NEW ROOF OF 320 SF DRAINS ONTO EXISTING 8,778 SF ROOF. FOR A TOTAL OF 9,098 SF. EXISTING ROOF HAS (3) 4" DIA ROOF DRAINS.

4" DIA LEADER HAS AN EFFECTIVE CAPACITY OF 4,600 SF AT 4.0 IN/HR RAINFALL. 3 X 4,600 = 13,800 SF. 13,800 IS GREATER THAN 9,098 SF (EFFECTIVE TOTAL ROOF AREA).



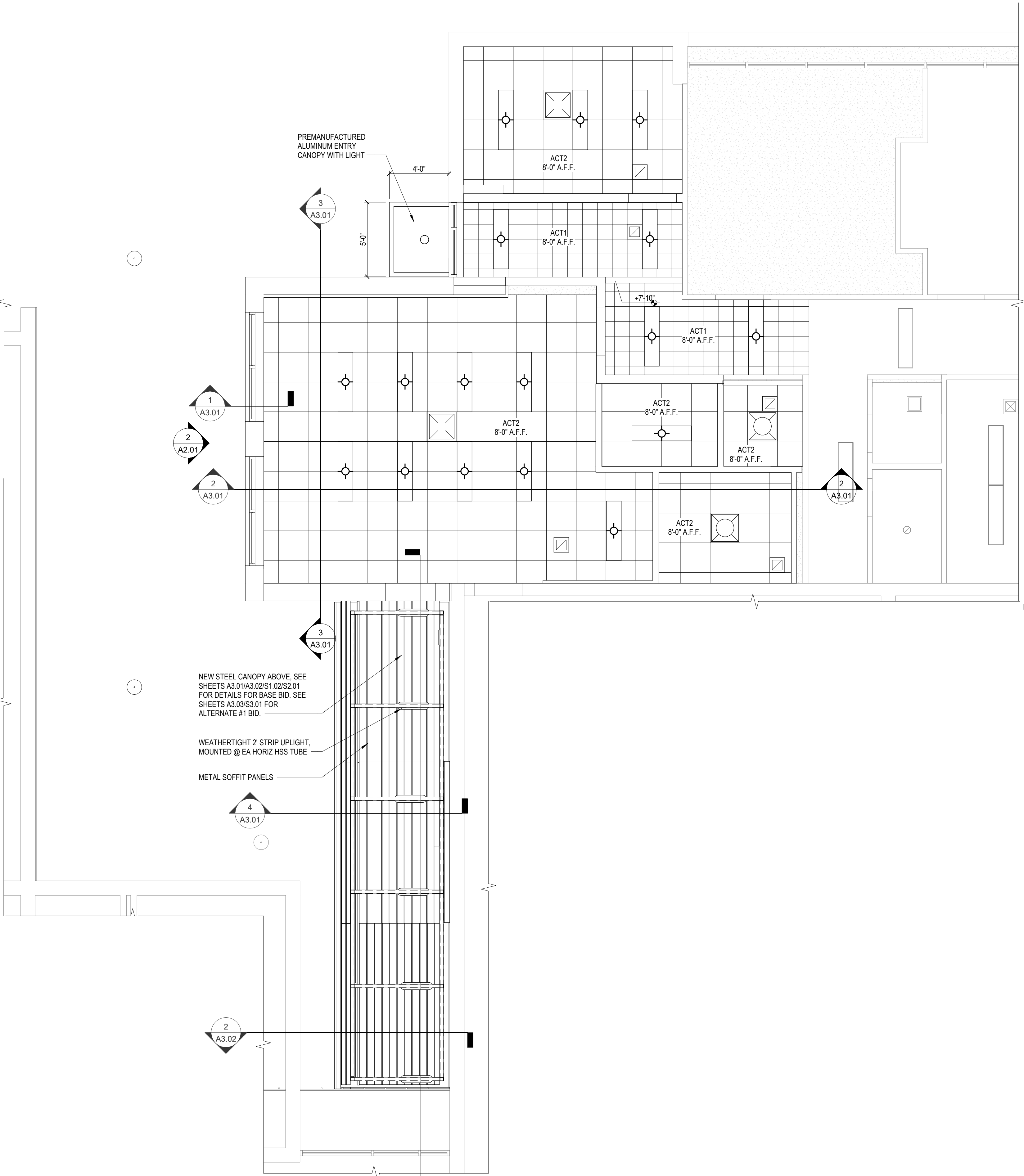
2 ROOF PLAN

1/8" = 1'-0"



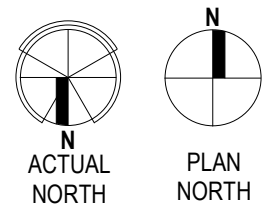
KEY PLAN

NOT TO SCALE



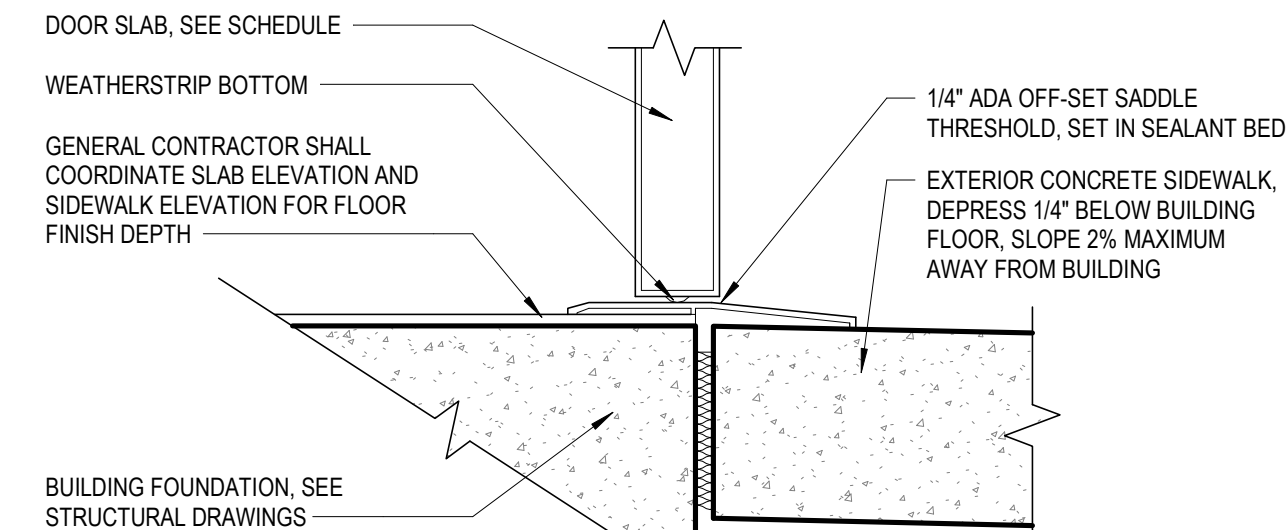
**FIRST FLOOR
REFLECTED CEILING PLAN**

1/4" = 1'-0"



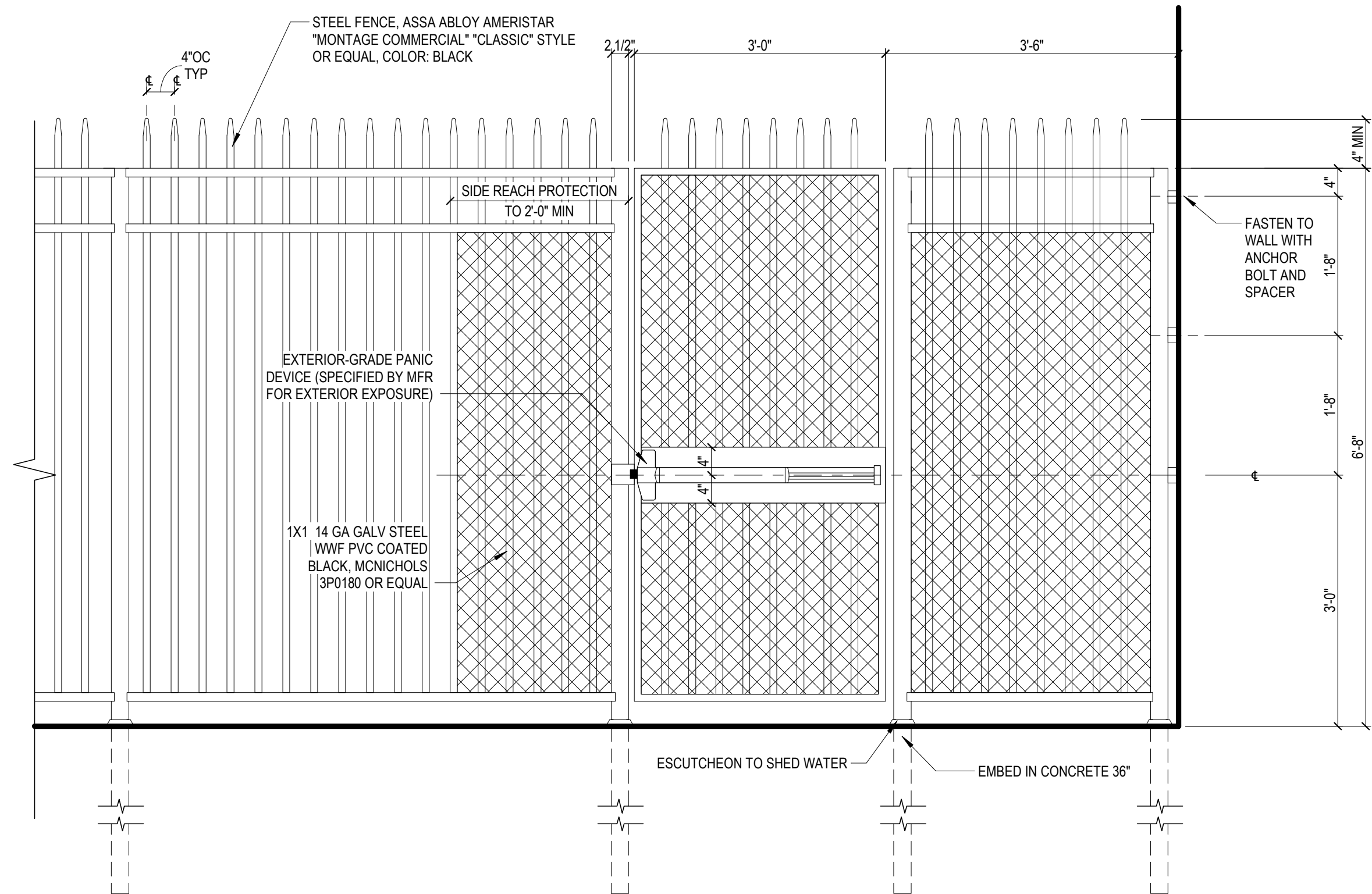
J:\2020\30320052.00 SALEM COURTHOUSE - JURY ROOM EXPANSION\ARCH\DWG\0320052.00 SALEM COURTHOUSE - JURY ROOM\A1.03
J:\2020\30320052.00 SALEM COURTHOUSE - JURY ROOM EXPANSION\ARCH\DWG\0320052.00 SALEM COURTHOUSE - JURY ROOM\A1.03

| DOOR LATCH TYPES | | | | |
|------------------|--------|--------------------|-------------|--|
| OUTSIDE | INSIDE | TYPE | ANSI SERIES | FUNCTION DESCRIPTION |
| | | EXIT LOCK | F89 | <ul style="list-style-type: none">OUTSIDE LEVER ALWAYS FIXEDINSIDE LEVER ALWAYS FREE |
| | | BATHROOM (PRIVACY) | F76 | <ul style="list-style-type: none">THROW-OFF LATCHBOLT BY LEVER EITHER SIDEOUTSIDE LEVER LOCKED BY PUSH BUTTONOUTSIDE LEVER UNLOCKED BY EMERGENCY RELEASE TOOL OUTSIDE, BY ROTATING LEVER OR BY CLOSING DOORINSIDE LEVER ALWAYS FREE |
| | | PASSAGE OR CLOSET | F75 | <ul style="list-style-type: none">LATCHBOLT BY LEVER, EITHER SIDEBOTH LEVERS ALWAYS FREE |
| | | ENTRANCE OR OFFICE | F82 | <ul style="list-style-type: none">DEADLOCKING LATCHBOLT BY LEVER EITHER SIDE EXCEPT WHEN PUSH BUTTON LOCKS OUTSIDE LEVERPUSH BUTTON LOCKED BY TURNING INSIDE LEVER OR BY KEY IN OUTSIDE LEVERCLOSING DOOR DOES NOT RELEASE PUSH BUTTONINSIDE LEVER IS ALWAYS FREE |
| | | CLASSROOM LOCK | F84 | <ul style="list-style-type: none">OUTSIDE LEVER LOCKED AND UNLOCKED BY KEYINSIDE LEVER ALWAYS FREE |



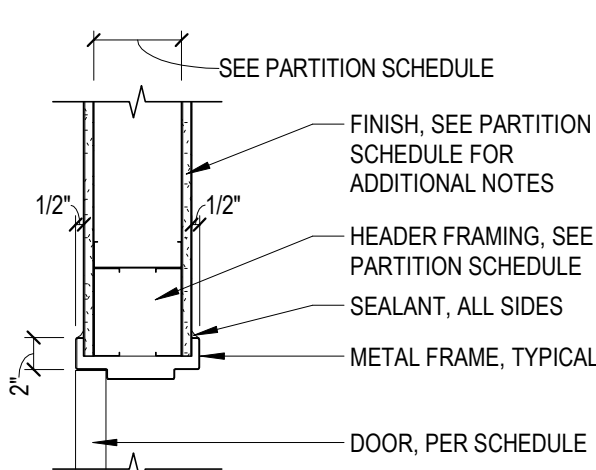
EXTERIOR DOOR THRESHOLD

NOT TO SCALE

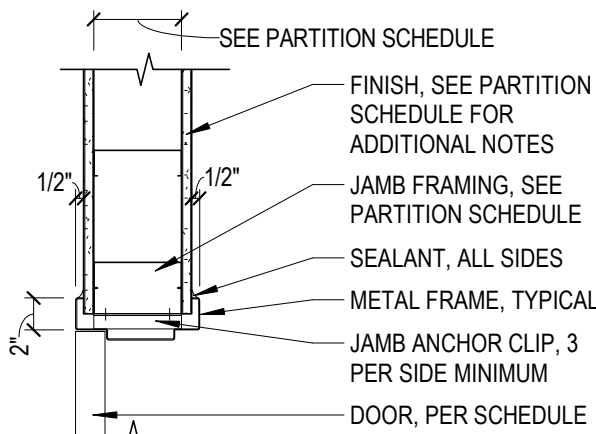


FENCE AND GATE DETAIL

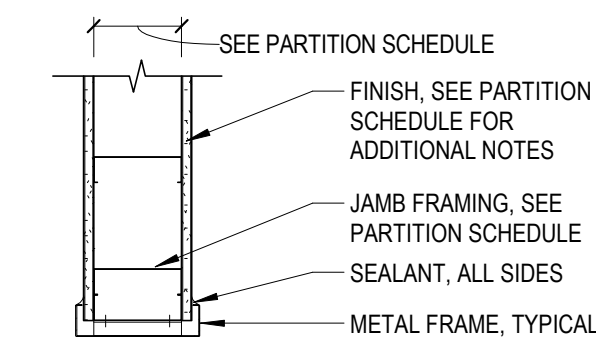
4
A1.03 3/4" = 1'-0"



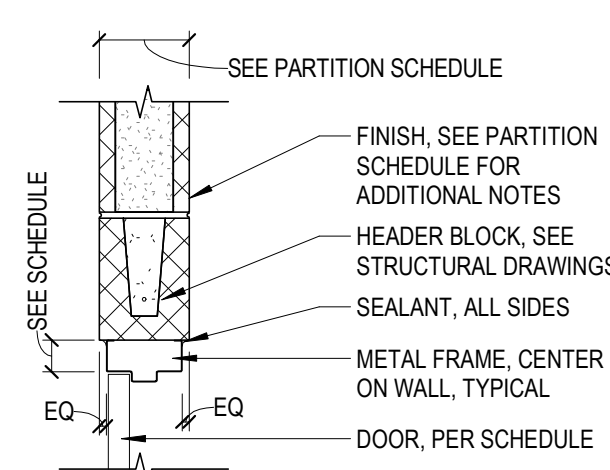
TYPICAL DOOR HEAD DETAIL
(FRAMED PARTITION)



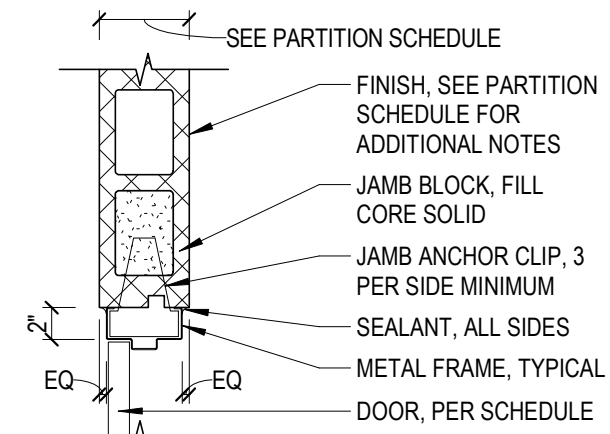
TYPICAL DOOR JAMB DETAIL
(FRAMED PARTITION)



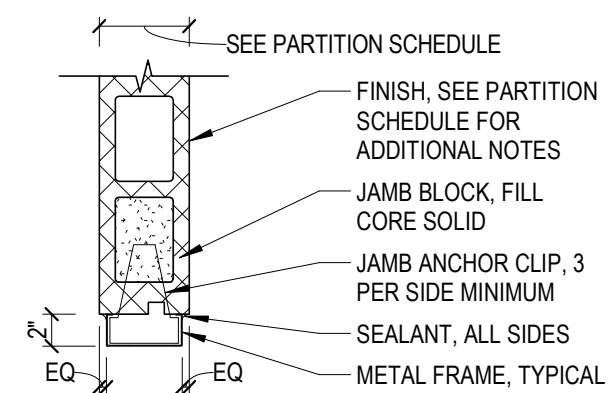
TYPICAL CASED OPENING JAMB
DETAIL (HEAD DETAIL SIMILAR)
(FRAMED PARTITION)



TYPICAL DOOR HEAD DETAIL
(BLOCK PARTITION)



TYPICAL DOOR JAMB DETAIL
(BLOCK PARTITION)

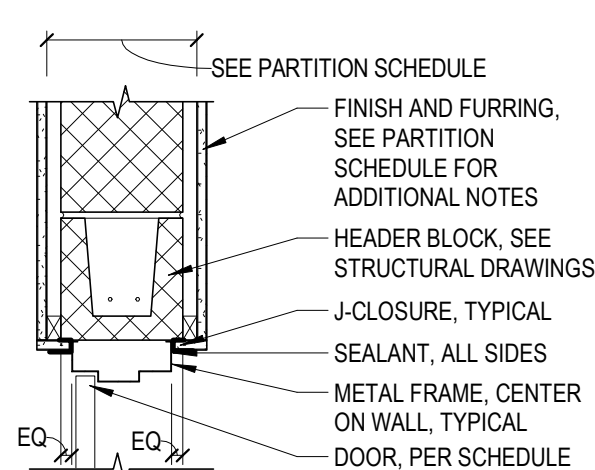


TYPICAL CASED OPENING JAMB
DETAIL (HEAD DETAIL SIMILAR)
(BLOCK PARTITION)

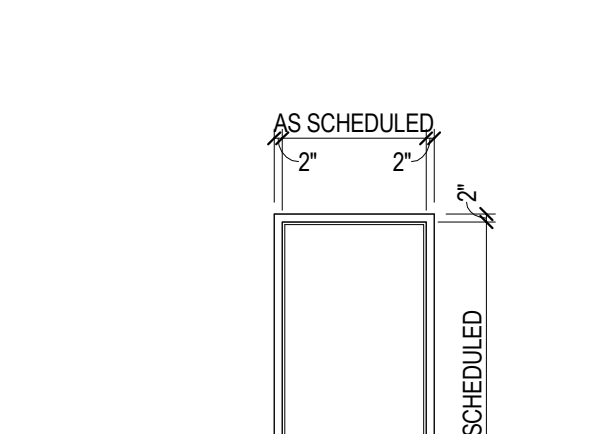
NOTE: DETAILS ONLY DEPICT GENERAL CONDITIONS FOR TYPICAL HOLLOW METAL FRAMED DOORS AND OPENINGS. FOR DOORS IN RATED ASSEMBLIES COORDINATE PARTITION DESCRIPTION WITH PARTITION SCHEDULE AND WALL RATING DETAILS, TYPICAL.

TYPICAL DOOR DETAILS

1" = 1'-0"



TYPICAL DOOR HEAD DETAIL
(BLOCK PARTITION)

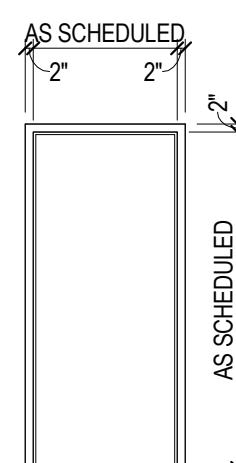


TYPICAL DOOR JAMB DETAIL
(BLOCK PARTITION)



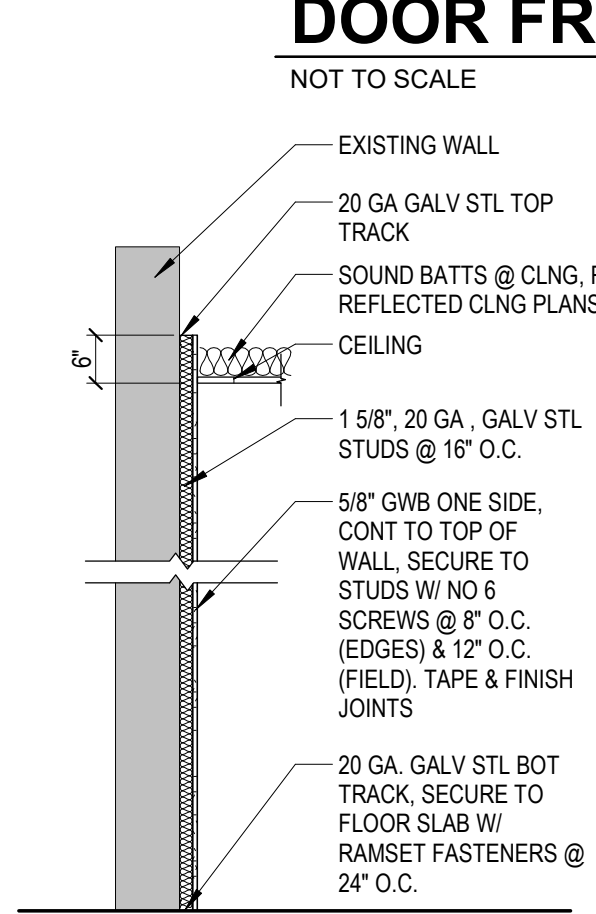
TYPICAL CASED OPENING JAMB
DETAIL (HEAD DETAIL SIMILAR)
(BLOCK PARTITION)

| DOOR SCHEDULE | | | | | | | | | | | |
|---------------|-------|--------|-----------|----------------|-------------|--------|-----------|------------|------------|-------------|-------------|
| DOOR NO. | SIZE | | MATERIAL | FRAME MATERIAL | LABEL (MIN) | TRHD | DOOR TYPE | FRAME TYPE | HWDR SET # | ENERGY STAR | REMARKS |
| | WIDTH | HEIGHT | | | | | | | | | |
| 106 | 3'-0" | 7'-10" | 0'-1 3/4" | VD | HM | 20 MIN | 1 | A | 6 | | |
| 106A | 3'-0" | 7'-0" | 0'-1 3/4" | VD | HM | | 155 | A | 4 | | |
| 106C | 3'-0" | 7'-10" | 0'-1 3/4" | VD | HM | | Yes | 1 | A | 5 | |
| 107 | 2'-6" | 7'-0" | 0'-1 3/4" | VD | HM | | 199 | A | 3 | | |
| 108 | 3'-0" | 7'-0" | 0'-1 3/4" | VD | HM | | 155 | A | 3 | | |
| 165B | 3'-0" | 7'-0" | 0'-1 3/4" | ALUM | ALUM | | Yes | 1 | SF | 1 | DARK BRONZE |
| 175A | 3'-0" | 7'-10" | 0'-1 3/4" | VD | HM | 20 MIN | 1 | A | 2 | | |

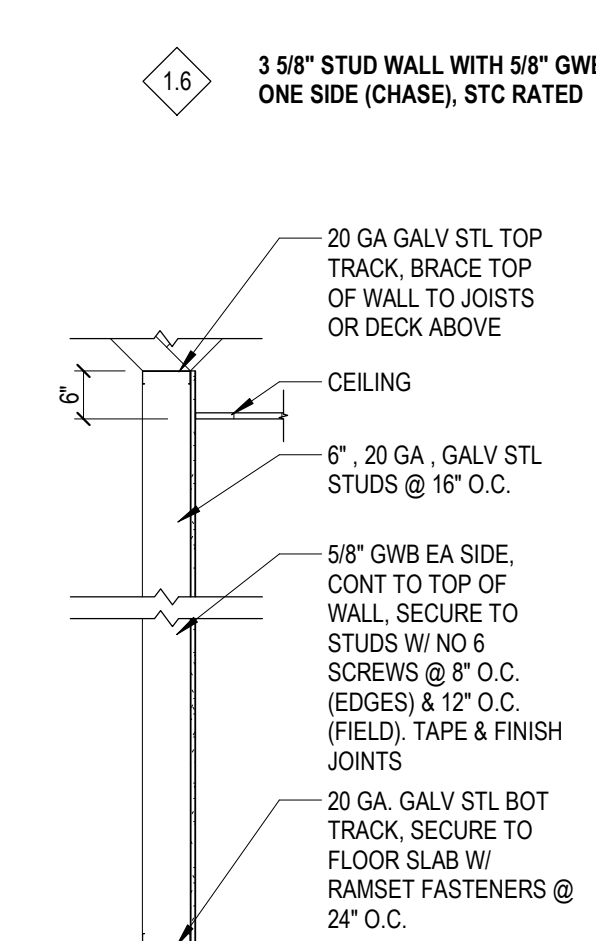


DOOR FRAME TYPES

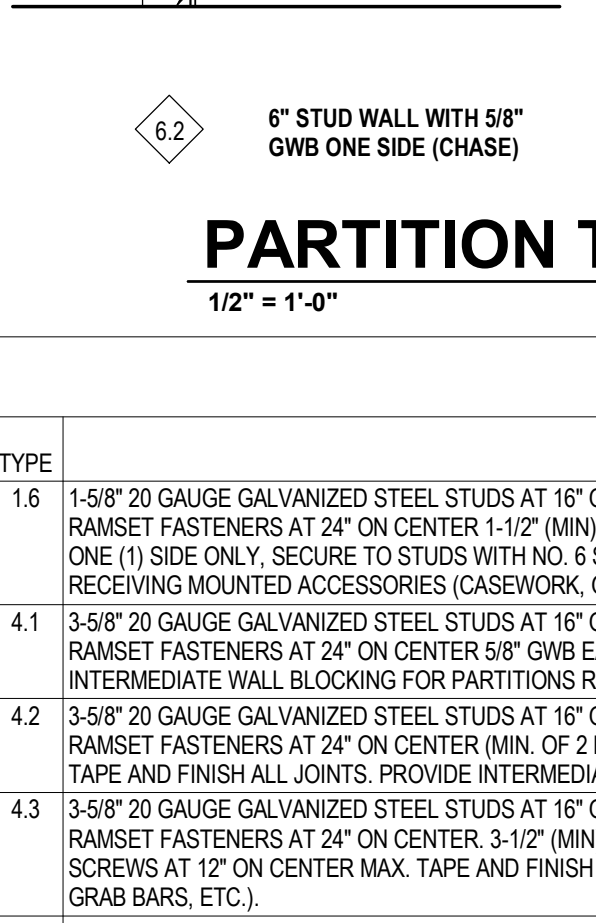
NOT TO SCALE



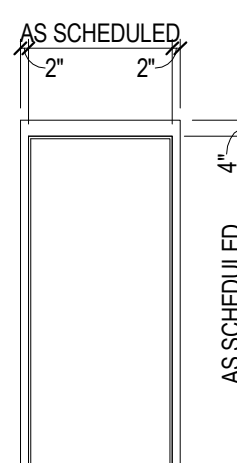
1.6 3 5/8" STUD WALL WITH 5/8" GWB ONE SIDE (CHASE), STC RATED



4.2 3 5/8" STUD WALL WITH 5/8" GWB ONE SIDE (CHASE)

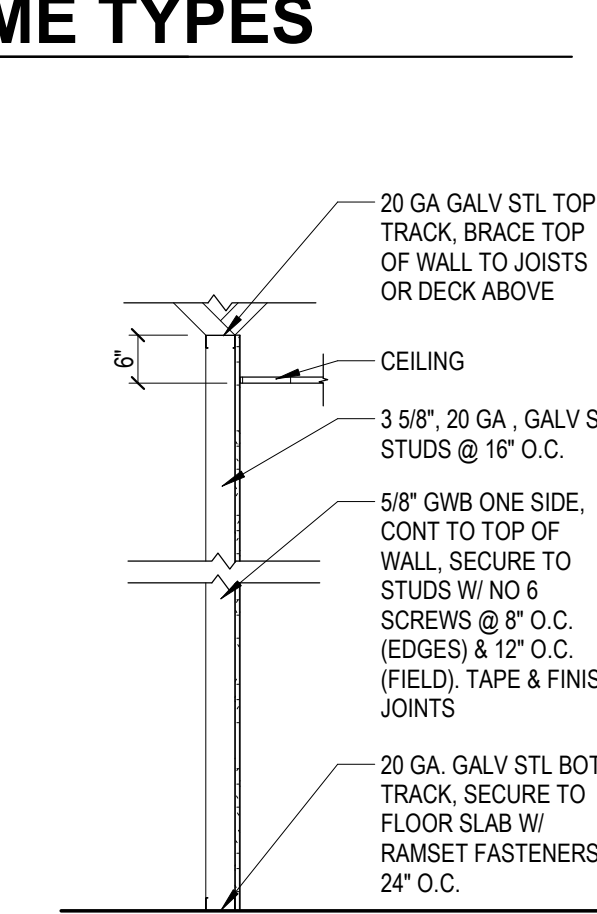


6.2 6" STUD WALL WITH 5/8" GWB ONE SIDE (CHASE)

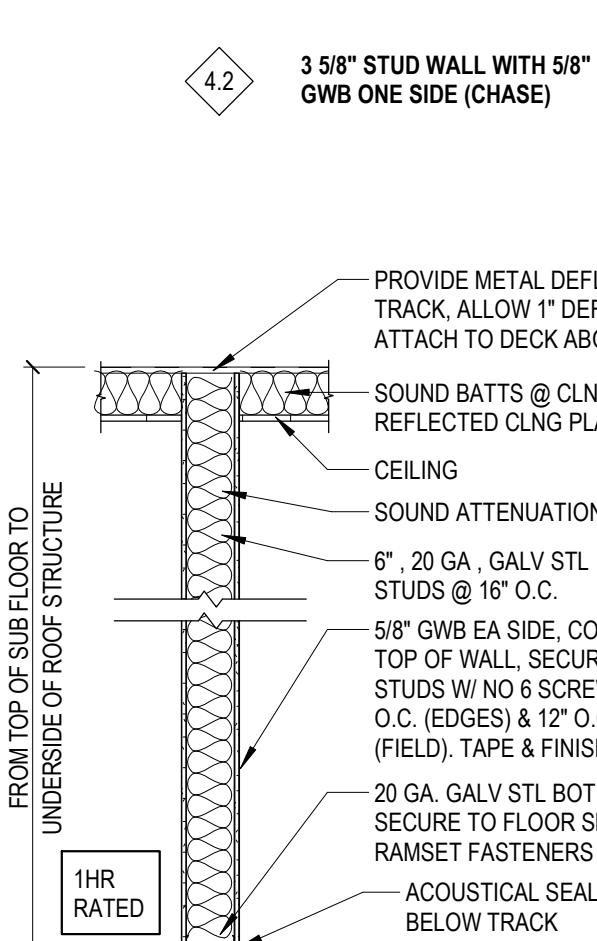


DOOR TYPES

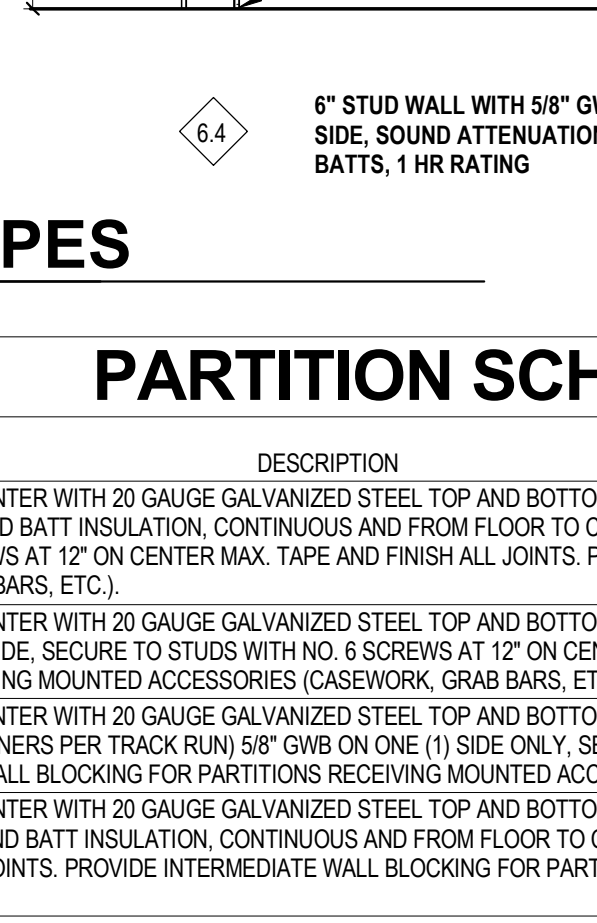
NOT TO SCALE



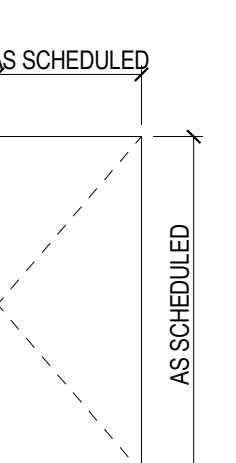
4.2 3 5/8" STUD WALL WITH 5/8" GWB ONE SIDE (CHASE)



6.4 6" STUD WALL WITH 5/8" GWB EA SIDE, SOUND ATTENUATION BATTS, 1 HR RATING

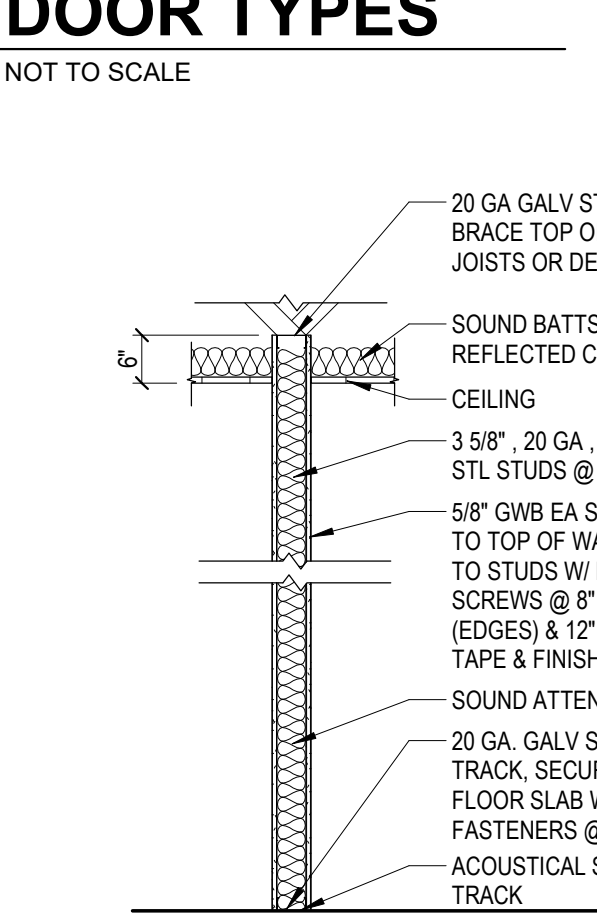


6.4 6" STUD WALL WITH 5/8" GWB EA SIDE, SOUND ATTENUATION BATTS, 1 HR RATING

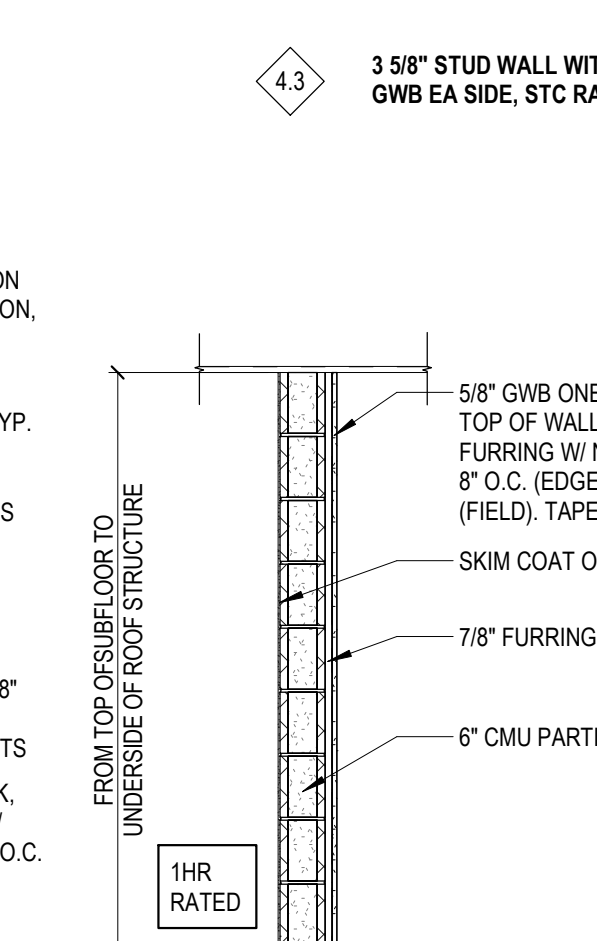


DOOR TYPES

NOT TO SCALE



4.3 3 5/8" STUD WALL WITH 5/8" GWB EA SIDE, STC RATED



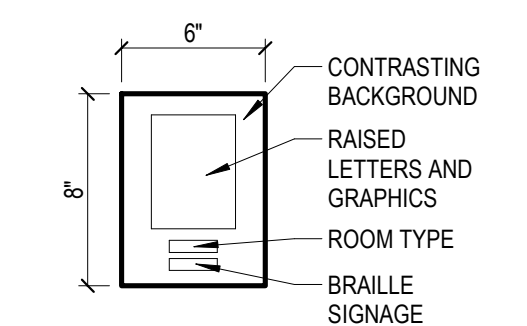
6.8 6" CMU, FURRING AND GWB ONE SIDE, 1 HR RATING

HARDWARE SETS

REFER TO DOOR SCHEDULE FOR SIGNAGE REQUIREMENTS

- STOREFRONT ENTRY SINGLE DOOR
 - HINGES BY MANUFACTURER
 - EXIT DEVICE BY MANUFACTURER
 - PULL BAR BY MANUFACTURER
 - (1) ADA ACCESSIBLE THRESHOLD
 - (1) CLOSER
 - (1) WEATHERSTRIPPING
 - EXIT LOCK
 - PRE-WIRE FOR ELECTRONIC CONTROLS
- CONFERENCE ROOM
 - (1-1/2) PAIR HINGES
 - LEVER HANDLE PRIVACY SET
 - CLOSER
 - KICK PLATE
- RESTROOM
 - (1-1/2) PAIR HINGES
 - LEVER HANDLE PRIVACY SET
 - (1) CLOSER
- UTILITY CLOSET
 - (1-1/2) PAIR HINGES
 - LEVER HANDLE CLOSET SET
- EXTERIOR EGRESS
 - (1-1/2) PAIR HINGES
 - LEVER HANDLE ENTRANCE LOCK SET
 - (1) ADA ACCESSIBLE THRESHOLD
 - (1) CLOSER
 - (1) WEATHERSTRIPPING
 - (1) KICKPLATE (INTERIOR)
- JURY ROOM
 - (1-1/2) PAIR HINGES
 - LEVER HANDLE CLASSROOM SET
 - CLOSER
 - KICK PLATE

* VERIFY WITH OWNER



MOUNT SIGN ON WALL ADJACENT TO RESTROOM DOOR, 60" ABOVE FLOOR TO TOP OF SIGN, 7" MINIMUM CLEAR FROM LATCH SIDE OF DOOR FRAME (FOR SINGLE DOORS). SEE ADA REFERENCE SHEET FOR ADDITIONAL NOTES.

TYPICAL REGULATORY SIGN DETAIL

RESTROOM SIGN

1 1/2" = 1'-0"

| PARTITION TYPES | | | | |
|--------------------|--|----------------|---------------|--------|
| 1/2" = 1'-0" | | | | |
| PARTITION SCHEDULE | | | | |
| TYPE | DESCRIPTION | RATING (HOURS) | UL DESIGN NO. | HEIGHT |
| 1.6 | 1-5/8" 20 GAUGE GALVANIZED STEEL STUDS AT 16" ON CENTER WITH 20 GAUGE GALVANIZED STEEL TOP AND BOTTOM TRACKS. SECURE BOTTOM TRACK TO FLOOR SLAB WITH RAMSET FASTENERS AT 24" ON CENTER 1-1/2" (MIN) SOUND BATT INSULATION, CONTINUOUS AND FROM FLOOR TO CEILING, (MIN. OF 2 FASTENERS PER TRACK RUN) 5/8" GWB ON ONE (1) SIDE ONLY. SECURE TO STUDS WITH NO. 6 SCREWS AT 12" ON CENTER MAX. TAPE AND FINISH ALL JOINTS. PROVIDE INTERMEDIATE WALL BLOCKING FOR PARTITIONS RECEIVING MOUNTED ACCESSORIES (CASEWORK, GRAB BARS, ETC.). | - | | |
| 4.1 | 3-5/8" 20 GAUGE GALVANIZED STEEL STUDS AT 16" ON CENTER WITH 20 GAUGE GALVANIZED STEEL TOP AND BOTTOM TRACKS. SECURE BOTTOM TRACK TO FLOOR SLAB WITH RAMSET FASTENERS AT 24" ON CENTER 5/8" GWB EACH SIDE. SECURE TO STUDS WITH NO. 6 SCREWS AT 12" ON CENTER MAX. TAPE AND FINISH ALL JOINTS. PROVIDE INTERMEDIATE WALL BLOCKING FOR PARTITIONS RECEIVING MOUNTED ACCESSORIES (CASEWORK, GRAB BARS, ETC.). | - | | 3'-2" |
| 4.2 | 3-5/8" 20 GAUGE GALVANIZED STEEL STUDS AT 16" ON CENTER WITH 20 GAUGE GALVANIZED STEEL TOP AND BOTTOM TRACKS. SECURE BOTTOM TRACK TO FLOOR SLAB WITH RAMSET FASTENERS AT 24" ON CENTER (MIN. OF 2 FASTENERS PER TRACK RUN) 5/8" GWB ON ONE (1) SIDE ONLY. SECURE TO STUDS WITH NO. 6 SCREWS AT 12" ON CENTER MAX. TAPE AND FINISH ALL JOINTS. PROVIDE INTERMEDIATE WALL BLOCKING FOR PARTITIONS RECEIVING MOUNTED ACCESSORIES (CASEWORK, GRAB BARS, ETC.). | - | | 10'-0" |
| 4.3 | 3-5/8" 20 GAUGE GALVANIZED STEEL STUDS AT 16" ON CENTER WITH 20 GAUGE GALVANIZED STEEL TOP AND BOTTOM TRACKS. SECURE BOTTOM TRACK TO FLOOR SLAB WITH RAMSET FASTENERS AT 24" ON CENTER. 3-1/2" (MIN) SOUND BATT INSULATION, CONTINUOUS AND FROM FLOOR TO CEILING. 5/8" GWB EACH SIDE. SECURE TO STUDS WITH NO. 6 SCREWS AT 12" ON CENTER MAX. TAPE AND FINISH ALL JOINTS. PROVIDE INTERMEDIATE WALL BLOCKING FOR PARTITIONS RECEIVING MOUNTED ACCESSORIES (CASEWORK, GRAB BARS, ETC.). | - | | 10'-0" |
| 6.2 | 6" 20 GAUGE GALVANIZED STEEL STUDS AT 16" ON CENTER WITH 20 GAUGE GALVANIZED STEEL TOP AND BOTTOM TRACKS. SECURE BOTTOM TRACK TO FLOOR SLAB WITH RAMSET FASTENERS AT 24" ON CENTER (MIN. OF 2 FASTENERS PER TRACK RUN) 5/8" GWB ON ONE (1) SIDE ONLY. SECURE TO STUDS WITH NO. 6 SCREWS AT 12" ON CENTER MAX. TAPE AND FINISH ALL JOINTS. PROVIDE INTERMEDIATE WALL BLOCKING FOR PARTITIONS RECEIVING MOUNTED ACCESSORIES (CASEWORK, GRAB BARS, ETC.). | - | | 10'-0" |
| 6.4 | REFER TO FIRE RATED ASSEMBLY NOTES FOR ADDITIONAL INFORMATION. 6" 20 GAUGE GALVANIZED STEEL STUDS AT 16" ON CENTER WITH 20 GAUGE GALVANIZED STEEL TOP AND BOTTOM TRACKS. SECURE BOTTOM TRACK TO FLOOR SLAB WITH RAMSET FASTENERS AT 24" ON CENTER 5/8" GWB EACH SIDE. SECURE TO STUDS WITH NO. 6 SCREWS AT 12" ON CENTER MAX. TAPE AND FINISH ALL JOINTS. PROVIDE INTERMEDIATE WALL BLOCKING FOR PARTITIONS RECEIVING MOUNTED ACCESSORIES (CASEWORK, GRAB BARS, ETC.). | 1 HR | U419 | 10'-0" |
| 6.8 | 5-5/8" REINFORCED AND GROUTED SMOOTH-FACE CMU WALL. PARTIAL HEIGHT PARTITIONS SHALL BE CAPPED WITH SOLID CMU. FINISH PER FINISH SCHEDULE | 1 HR | U306 | 10'-0" |



BALZER & ASSOCIATES
PLANNERS / ARCHITECTS
ENGINEERS / SURVEYORS

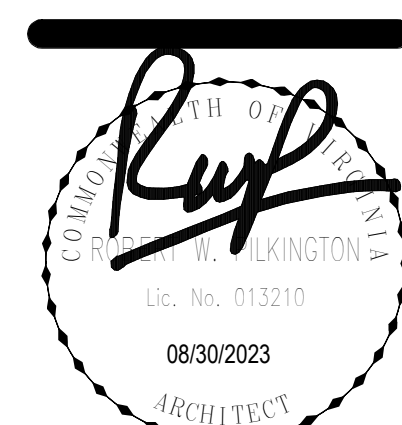
Roanoke / Richmond
Shenandoah Valley
New River Valley / Lynchburg

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1208 Corporate Circle

Roanoke, VA 24018

540.772.9580



SALEM COURTHOUSE
JURY ROOM EXPANSION
SCHEDULES, FENCE DETAIL

DRAWN BY CJ/MFK
DESIGNED BY RWP
CHECKED BY RWP
DATE 08/30/2023
SCALE As indicated
REVISIONS

A1.03

PROJECT NO 03220052.00



BALZER & ASSOCIATES
PLANNERS / ARCHITECTS
ENGINEERS / SURVEYORS

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Shenandoah Valley
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Roanoke, VA 24018
540.772.9580



SALEM COURTHOUSE

JURY ROOM EXPANSION

EXTERIOR ELEVATIONS

2 EAST CALHOUN STREET
SALEM, VIRGINIA 24153

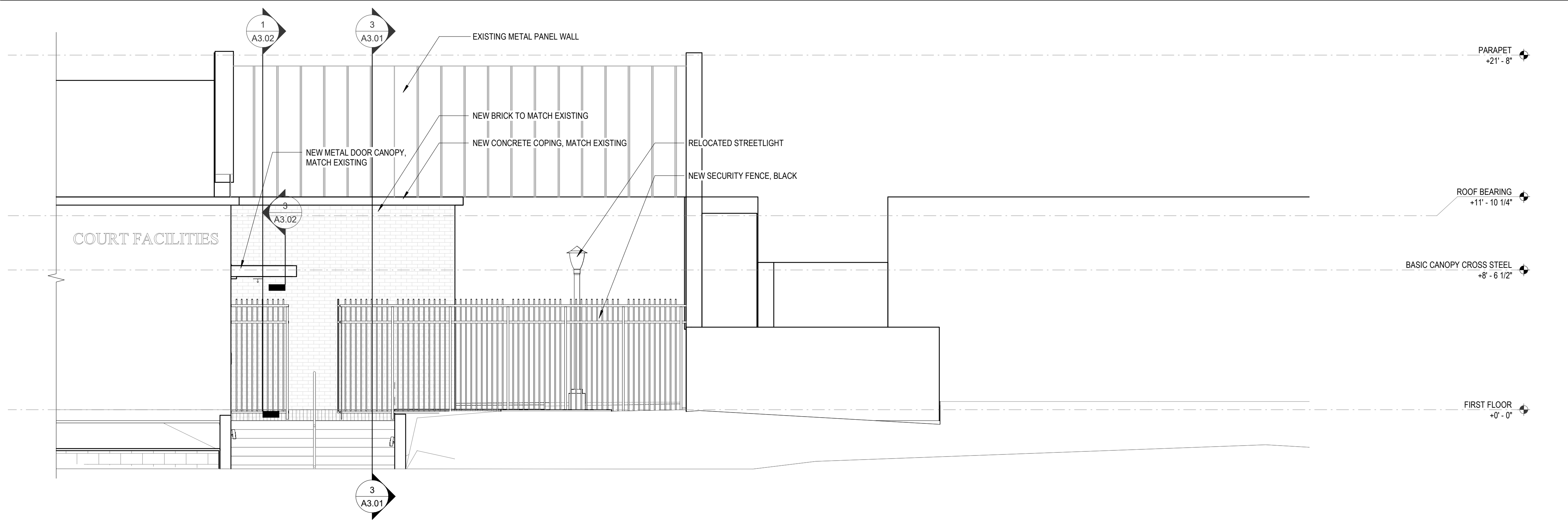
DRAWN BY CJ/MFK
DESIGNED BY RWP
CHECKED BY RWP
DATE 08/30/2023
SCALE As indicated
REVISIONS

A2.01

PROJECT NO 03220052.00

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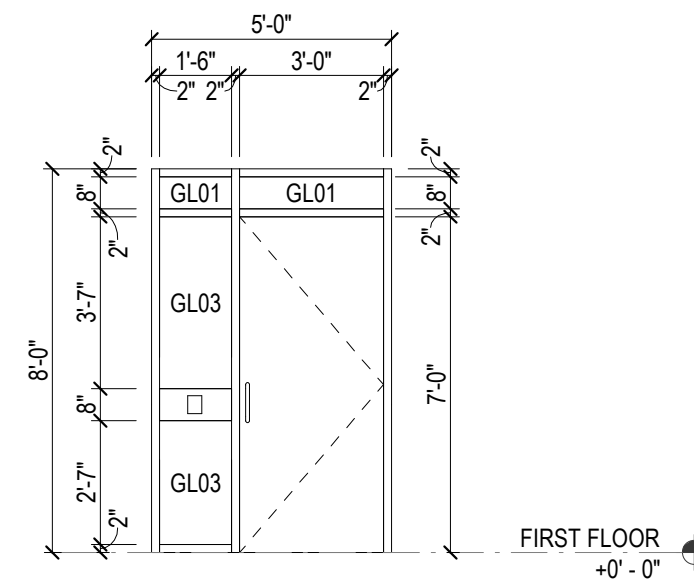
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1 EXTERIOR ELEVATION
1/4" = 1'-0"

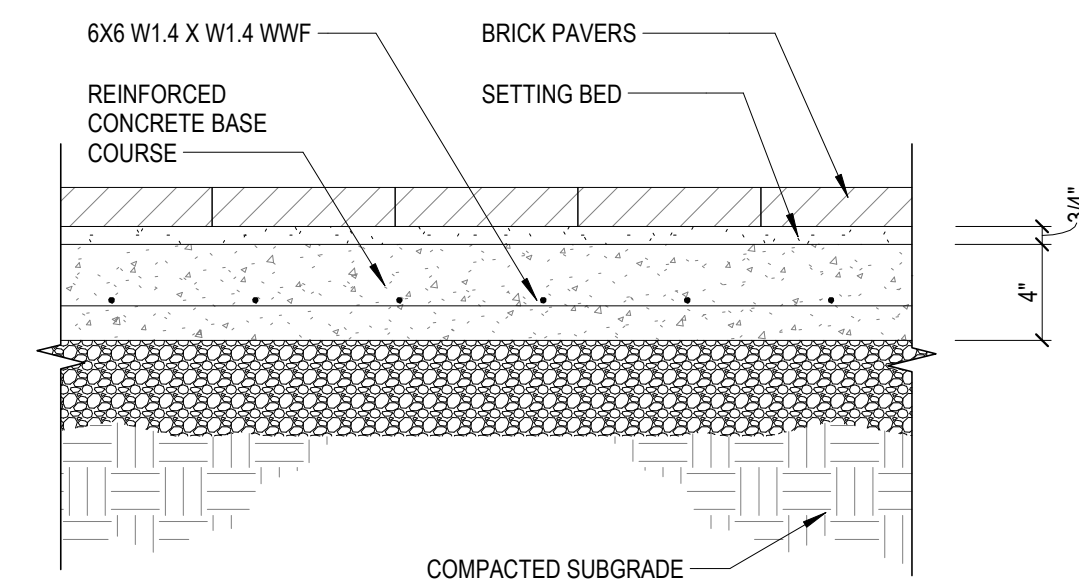
4 SF ELEVATION 2
1/4" = 1'-0"

5 SF ELEVATION 3
1/4" = 1'-0"



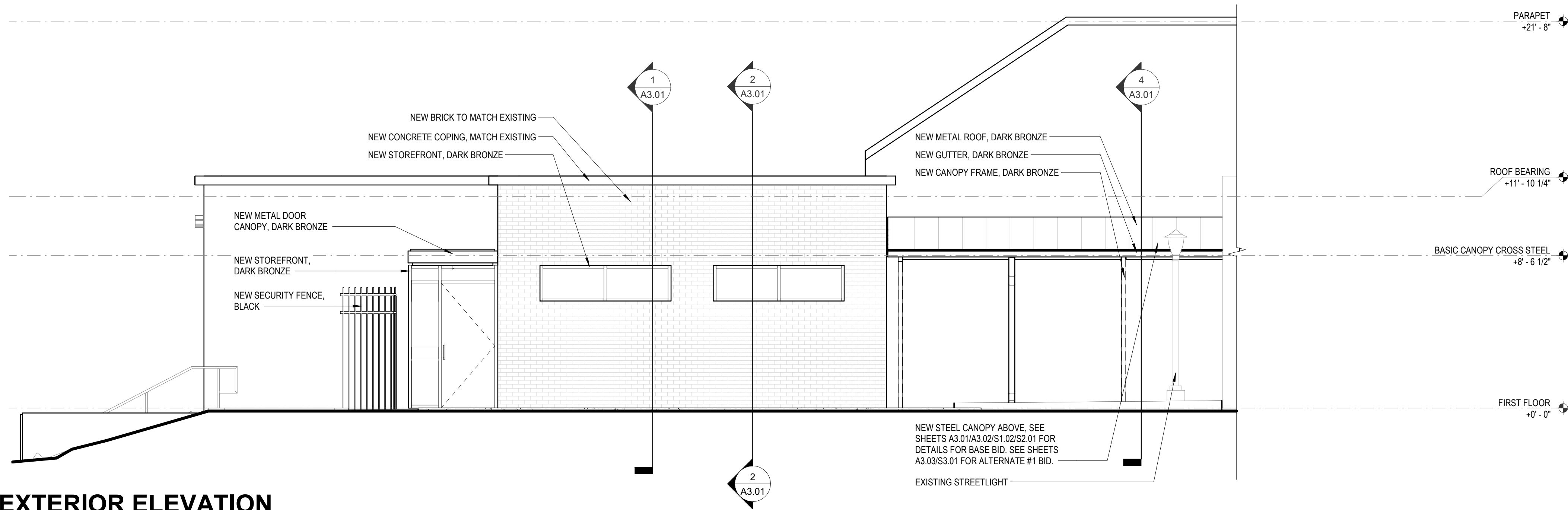
| SF GLAZING | |
|------------|-----------------------------|
| MARK | DESCRIPTION |
| GL01 | 1" THICK INSULATED |
| GL02 | 1" THICK INSULATED TINTED |
| GL03 | 1" THICK INSULATED TEMPERED |
| GL05 | 1/4" FLOAT |
| GL06 | 1/4" FLOAT TEMPERED |

3 DOOR 165B
1/4" = 1'-0"



**ALTERNATE #3
BRICK WALK DETAIL**
1 1/2" = 1'-0"

2 EXTERIOR ELEVATION
1/4" = 1'-0"



WALL SECTION

8 WINDOW DETAILS

1
A3.01

Sim

3
A3.01

NEW PRECAST COPING

NEW SLOPED INSULATION

NEW METAL DECK AND ROOFING INSULATION

NEW FRAMING, SEE STRUCT

NEW ROOF MEMBRANE LAP OVER EXISTING

EXIST ROOF

NEW ACT CEILING

3
A3.01

NEW FOOTING, SEE STRUCT

EXIST FOOTING

2
A3.01

BUILDING SECTION

1/4" = 1'-0"

Architectural section drawing of a building. The drawing shows a cross-section of the structure, including the roof, basic canopy cross steel, and the first floor. The roof is labeled "ROOF BEARING" with a dimension of "+11' - 10 1/4\"". The basic canopy cross steel is labeled "BASIC CANOPY CROSS STEEL" with a dimension of "+8' - 6 1/2\"". The first floor is labeled "FIRST FLOOR" with a dimension of "+0' - 0\"". The drawing also includes a section line with a circle containing the number "2" and the text "A3.01". The drawing is titled "BUILDING SECTION" and includes a scale of "1/4\" = 1'-0\"".

EXIST BRICK WALL
 BACKER ROD & SEALANT
 METAL COUNTERFLASHING
 MASONRY FASTENER
 ROOFING MFR'S HEADWALL TRIM
 FIELD-NOTCHED NEOPRENE
 ZEE CLOSURE
 BUTYL TAPE
 METAL ROOFING PANEL
 SYNTHETIC UNDERLAYMENT
 5/8" SHEATHING
 METAL ROOF DECK
 BASIC CANOPY UPPER STEEL
 ±10' - 0 1/2"
 WD BLOCKING
 HSS FRAMING, SEE STRUCT
 METAL SOFFIT PANEL
 SOFFIT MFR'S TRIM PIECE
 Z PURLIN
 BRAKE METAL CLOSURE
 BACKER ROD AND SEALANT

CANOPY EAVE DETAIL

6 HEAD OF WALL DETAIL
A3.01 3" = 1'-0"

Architectural section drawing of a roof assembly. The drawing shows a sloped roof structure with various layers and components. Key elements include:

- STANDING SEAM METAL ROOFING ON SELF-ADHERED UNDERLAYMENT**: The top layer of the roof assembly.
- 5/8" SHEATHING**: The layer below the roofing.
- METAL ROOF DECK**: The structural base of the roof.
- BRAKE METAL CLOSURE**: A component at the eave.
- KICKOUT FLASHING**: A flashing detail at the eave.
- METAL GUTTER**: A gutter system at the eave.
- METAL STEP FLASHING**: A flashing detail at the roof edge.
- NOTE: INSERT LAYER OF ICE AND WATER SHIELD BETWEEN DISSIMILAR METALS**: A note indicating the placement of a protective layer.
- METAL SOFFIT, WHITE**: The underside of the roof structure.
- BASIC CANOPY UPPER STEEL**: A structural component at the roof edge, with a dimension of $+10' - 0 1/2"$.
- BASIC CANOPY CROSS STEEL**: A structural component at the roof edge, with a dimension of $+8' - 6 1/2"$.
- STEEL CANOPY FRAMING, SEE STRUCTURAL**: A reference to the structural framing.
- PROVIDE GALVANIC ISOLATION BETWEEN STEEL AND SOFFIT**: A note indicating the need for isolation.
- WEATHERTIGHT 2" STRIP UPLIGHT, COOPER VRV3 OR EQUAL, ON EACH CROSS STEEL, CENTERED ON DOOR**: A note indicating the placement of a weathertight strip.

The drawing includes two circular callouts with the number 6 and the text A3.01, indicating a specific detail or section.

END WALL DETAIL

SECTION THRU CANOPY

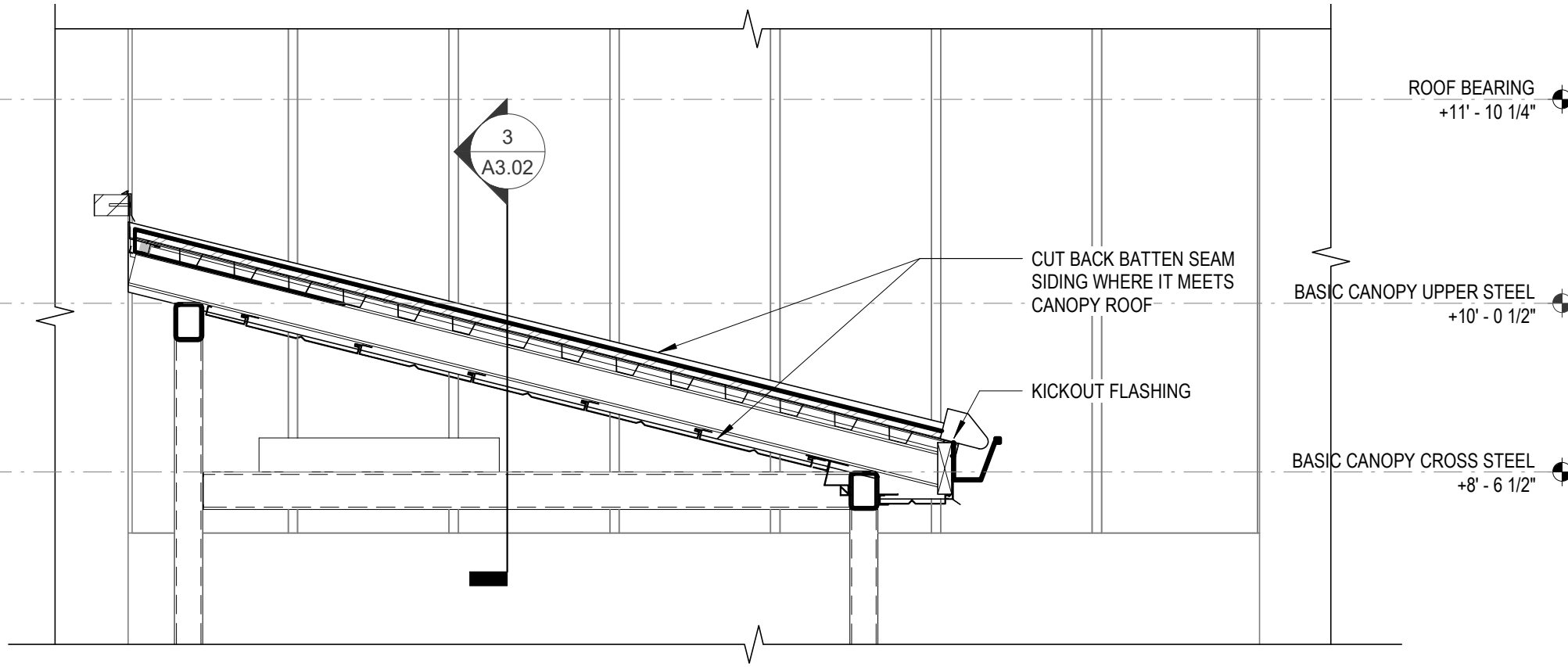
SALEM COURTHOUSE
JURY ROOM EXPANSION
SECTIONS AND DETAILS (BASE BID)

2 EAST CALHOUN STREET
SALEM, VIRGINIA 24153

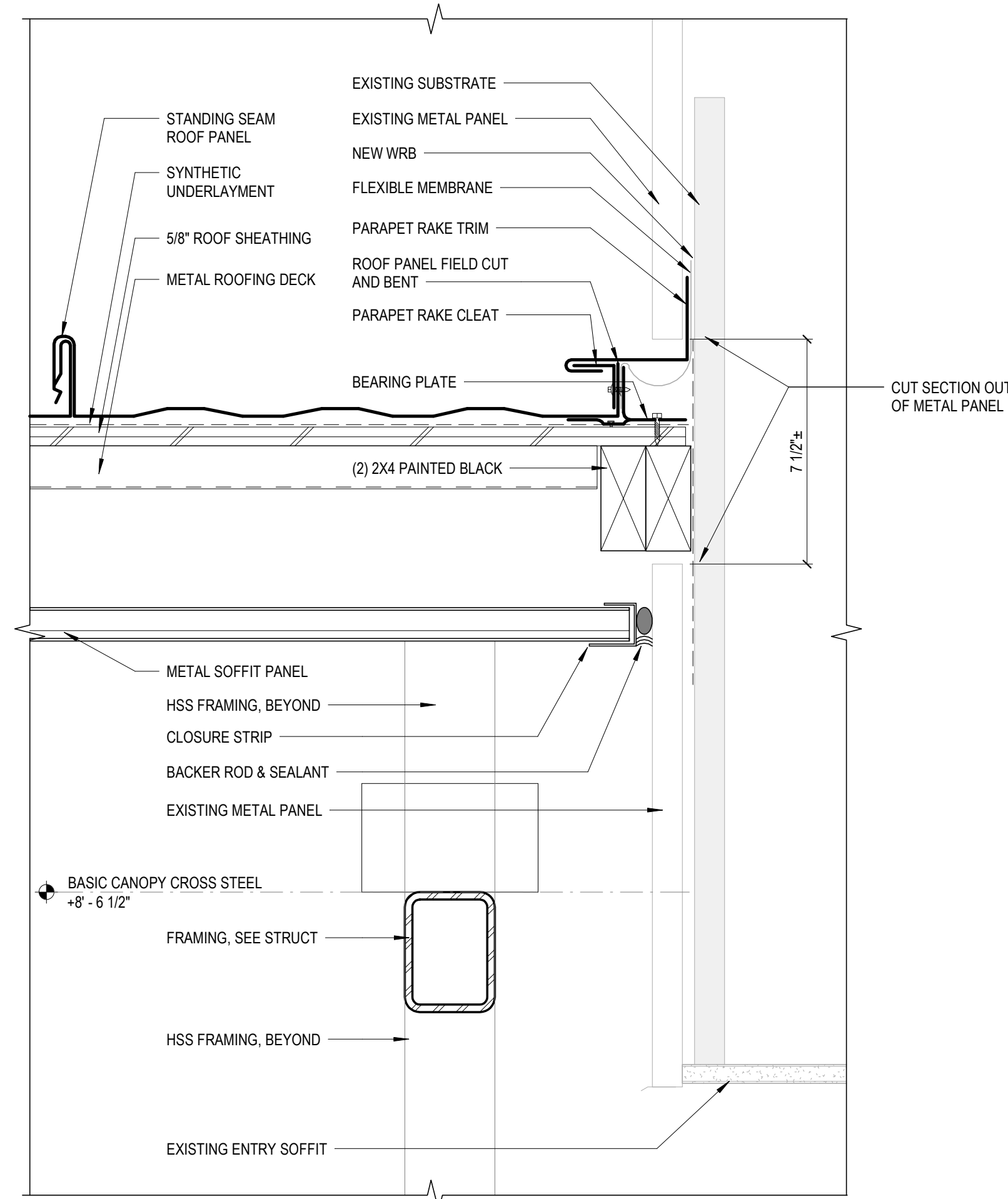
| | |
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| DRAWN BY | CJ/MFK |
| DESIGNED BY | RWP |
| CHECKED BY | RWP |
| DATE | 08/30/2023 |
| SCALE | As indicated |
| REVISIONS | |

A3.01

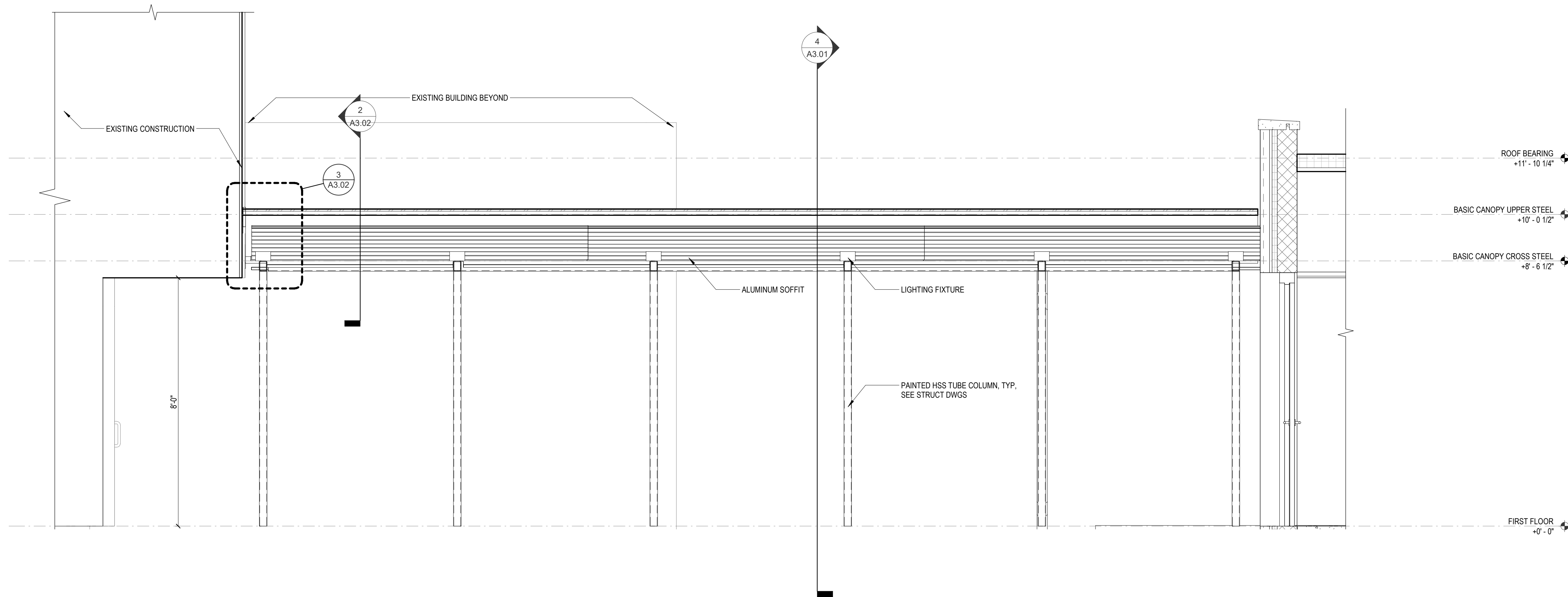
PROJECT NO 03220052.00



2
A3.02
DETAIL @ METAL PANEL
3/4" = 1'-0"



3
A3.02
CANOPY RAKE @ METAL PANEL
3" = 1'-0"



1
A3.02
CANOPY LONGITUDINAL SECTION
1/2" = 1'-0"



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SALEM COURTHOUSE
JURY ROOM EXPANSION
SECTIONS AND DETAILS (BASE BID)

2 EAST CALHOUN STREET
SALEM, VIRGINIA 24153

DRAWN BY CJ/MFK
DESIGNED BY RWP
CHECKED BY RWP
DATE 08/30/2023
SCALE As indicated
REVISIONS

A3.02

PROJECT NO 03220052.00



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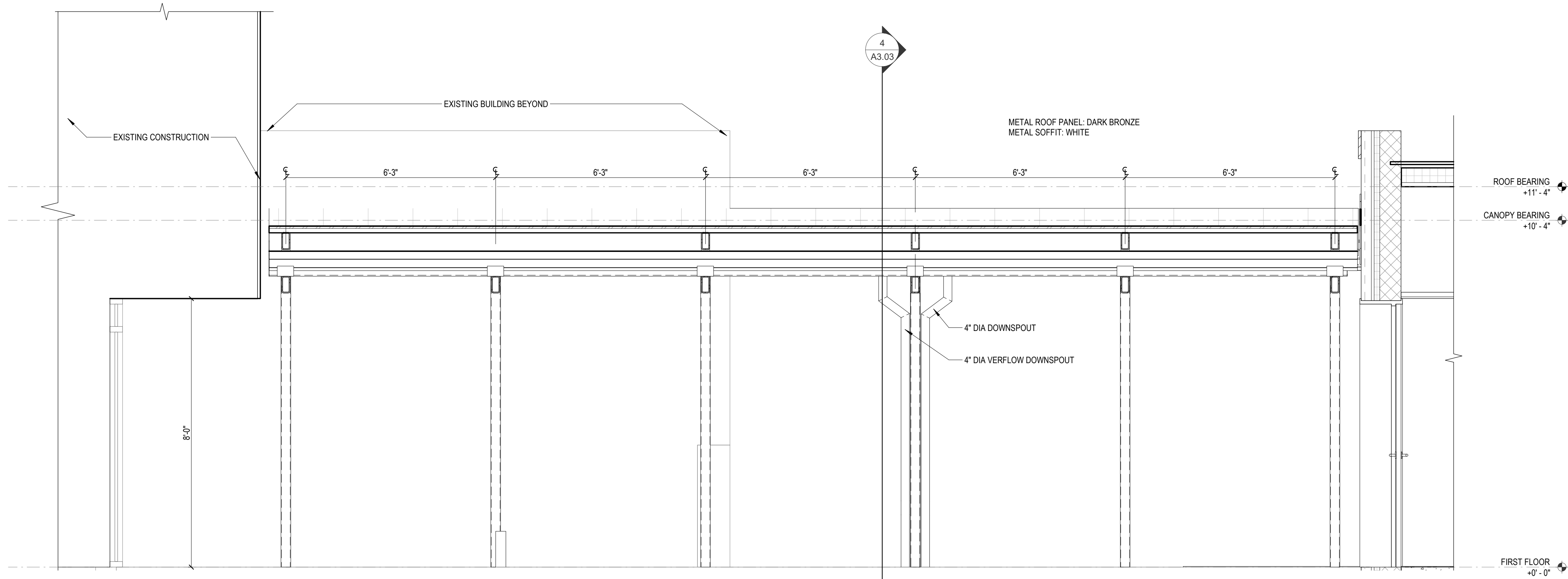
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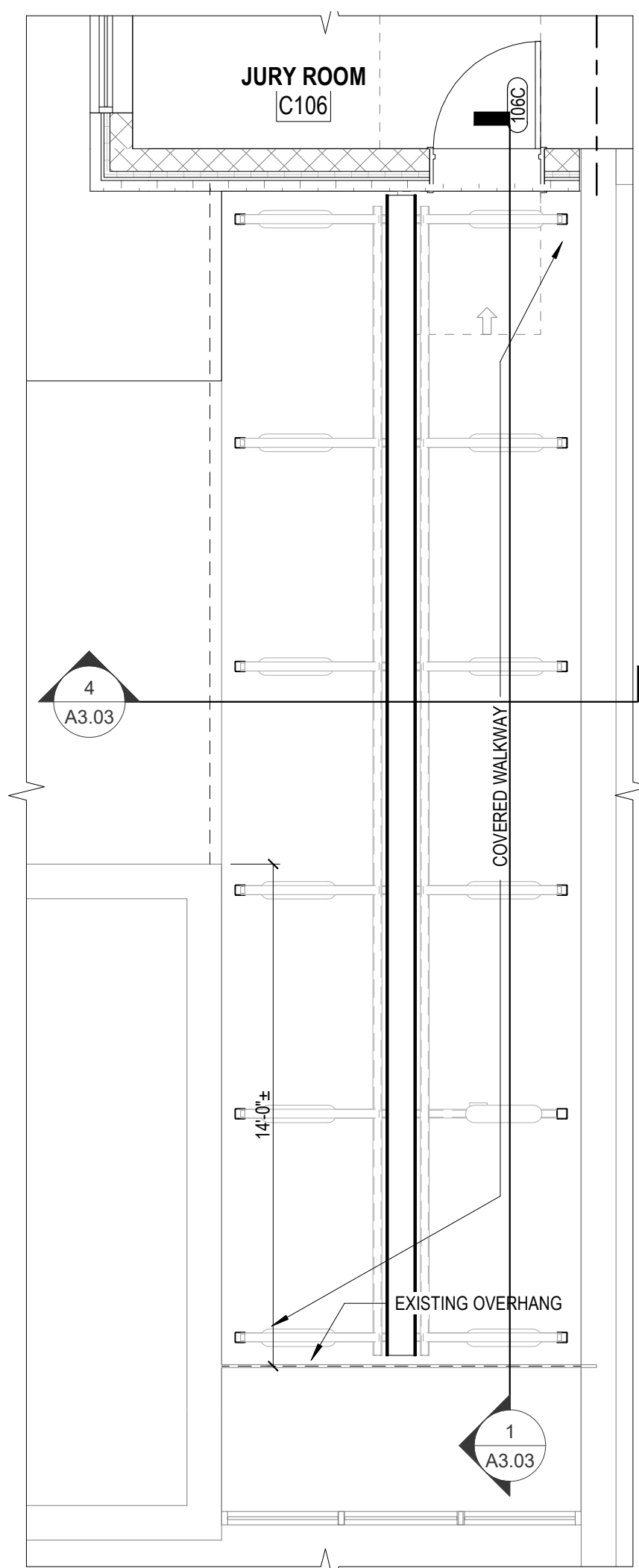
SALEM COURTHOUSE
JURY ROOM EXPANSION
ALTERNATE #1 CANOPY

DRAWN BY CJ/MFK
DESIGNED BY RWP
CHECKED BY RWP
DATE 08/30/2023
SCALE As indicated
REVISIONS

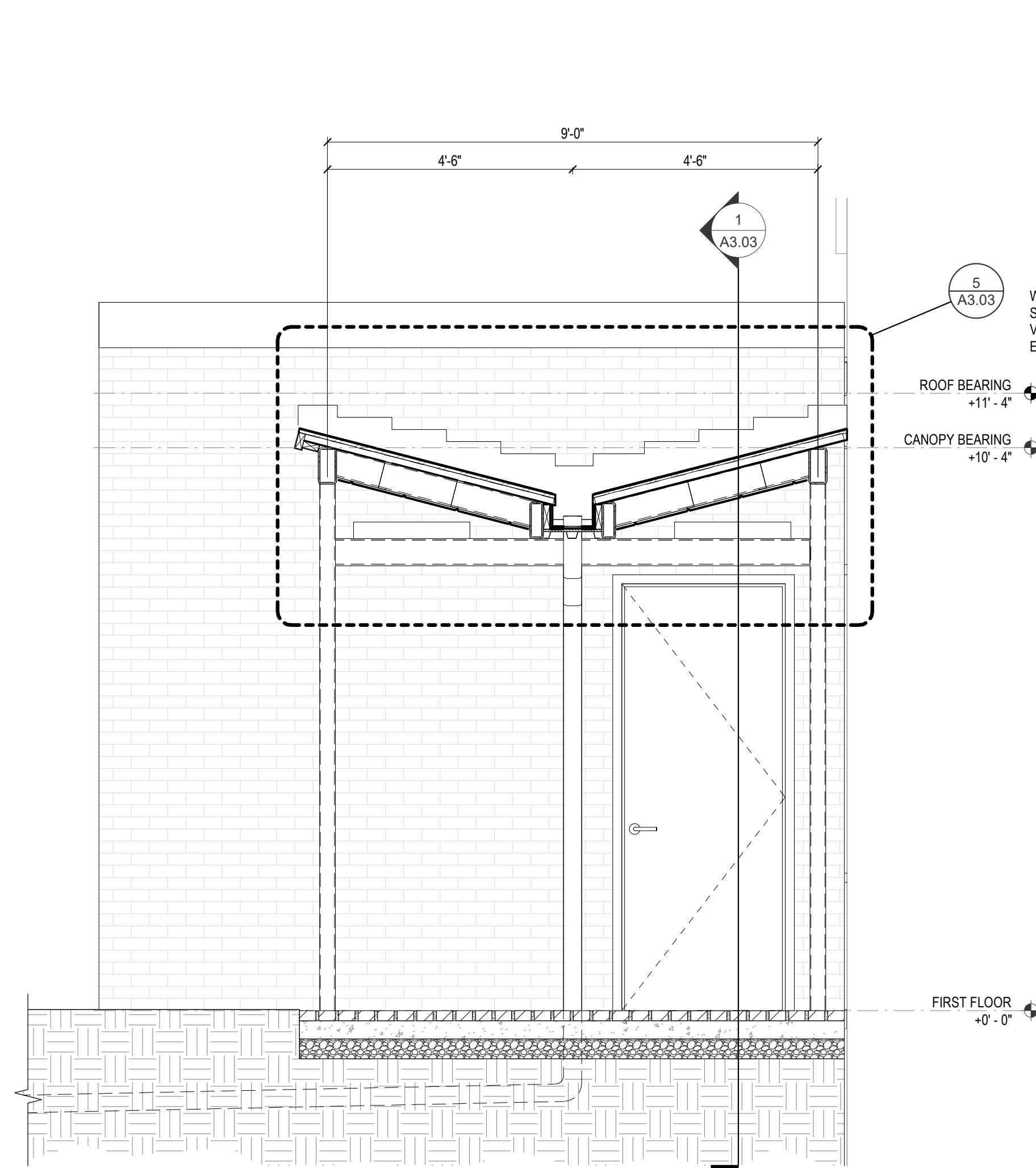
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PROJECT NO 03220052.00



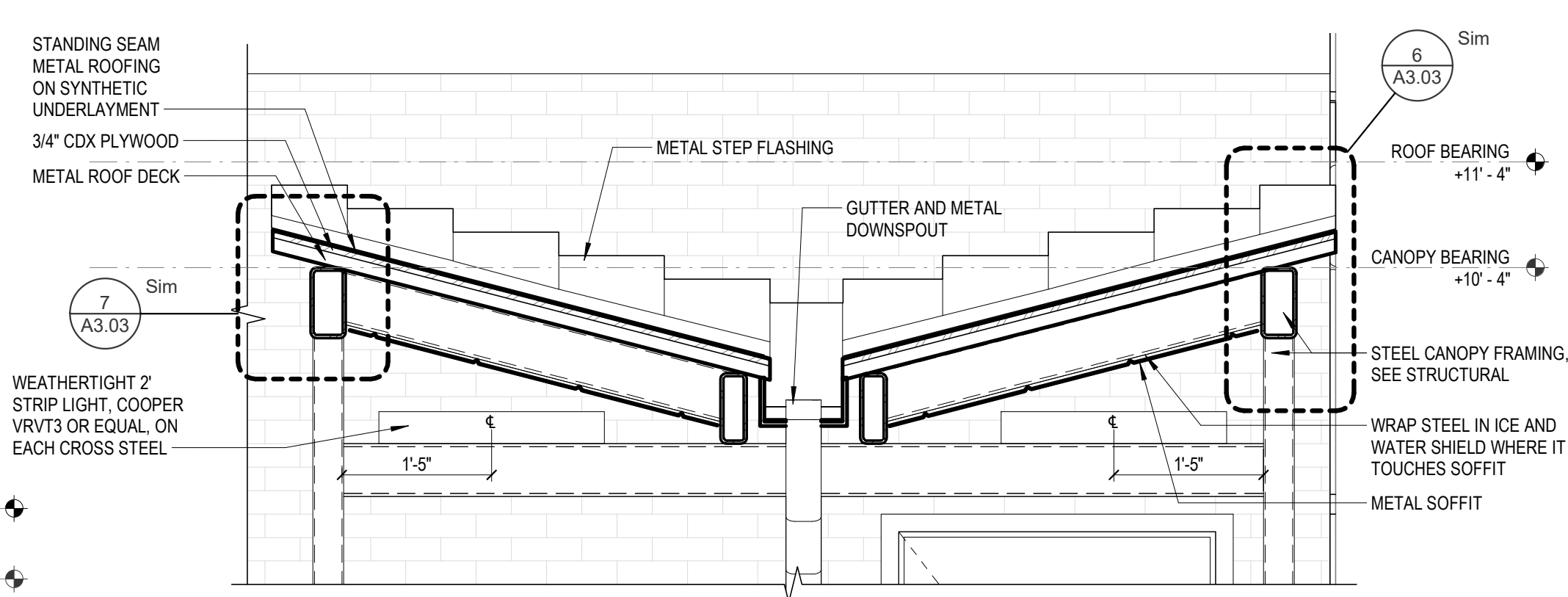
1 CANOPY LONGITUDINAL SECTION
1/2" = 1'-0"



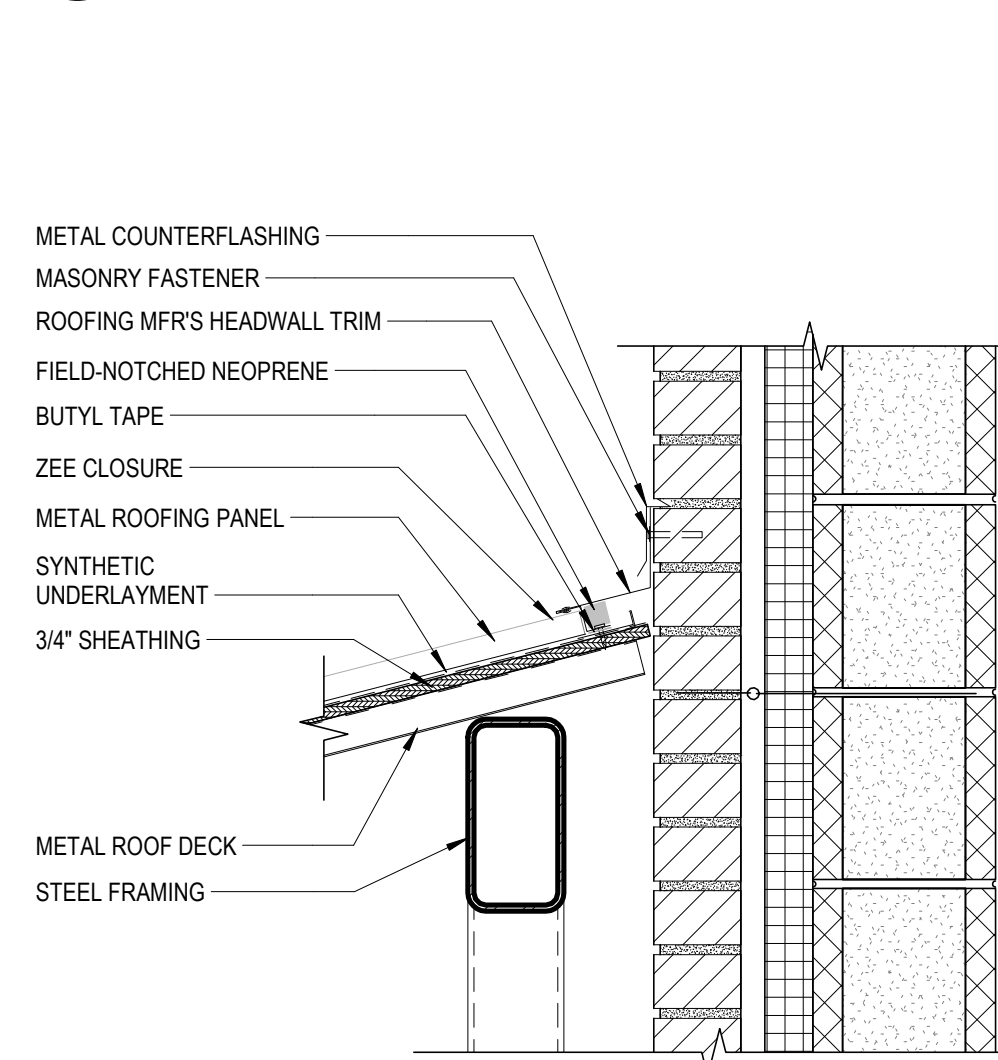
2 CANOPY PLAN
1/4" = 1'-0"



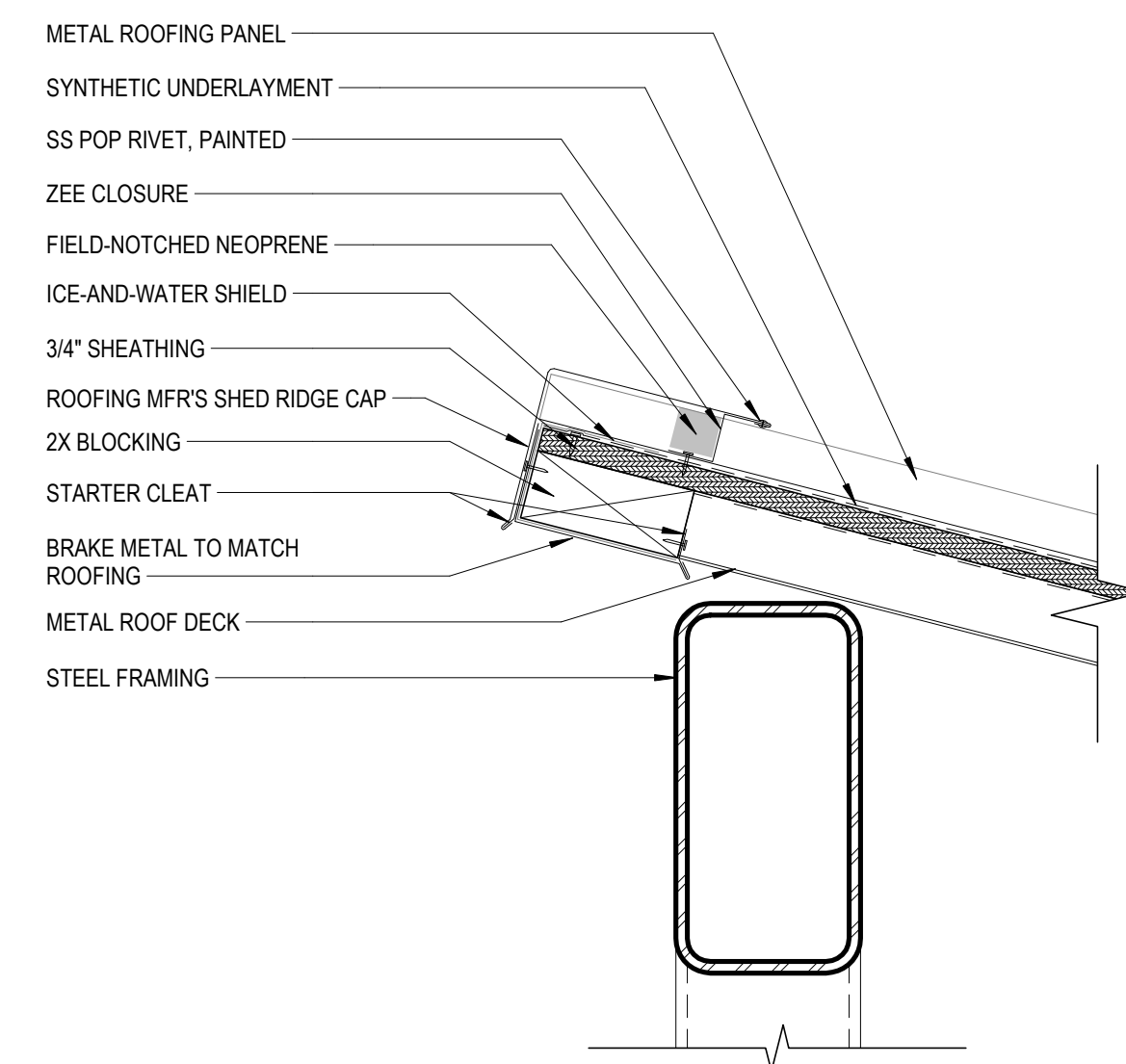
4 SECTION THRU CANOPY
1/2" = 1'-0"



5 END WALL FLASHING DETAIL
3/4" = 1'-0"


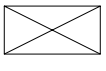
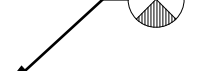
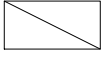

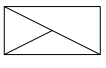

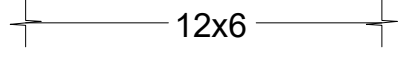
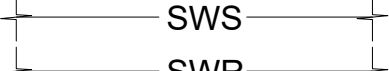
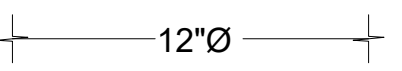
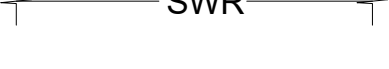


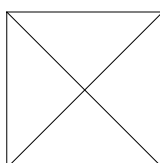
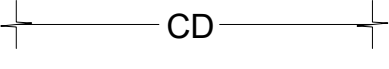

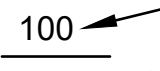
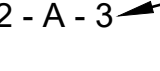
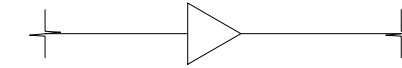
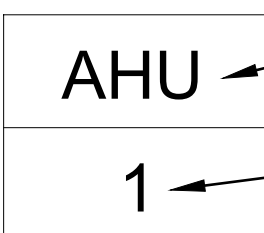
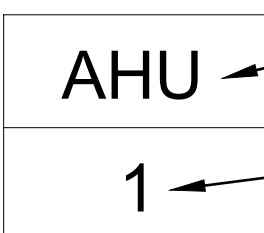
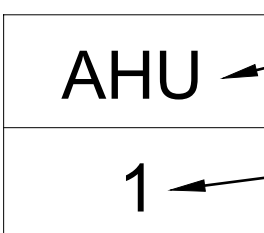




6 HEADWALL FLASHING
1 1/2" = 1'-0"



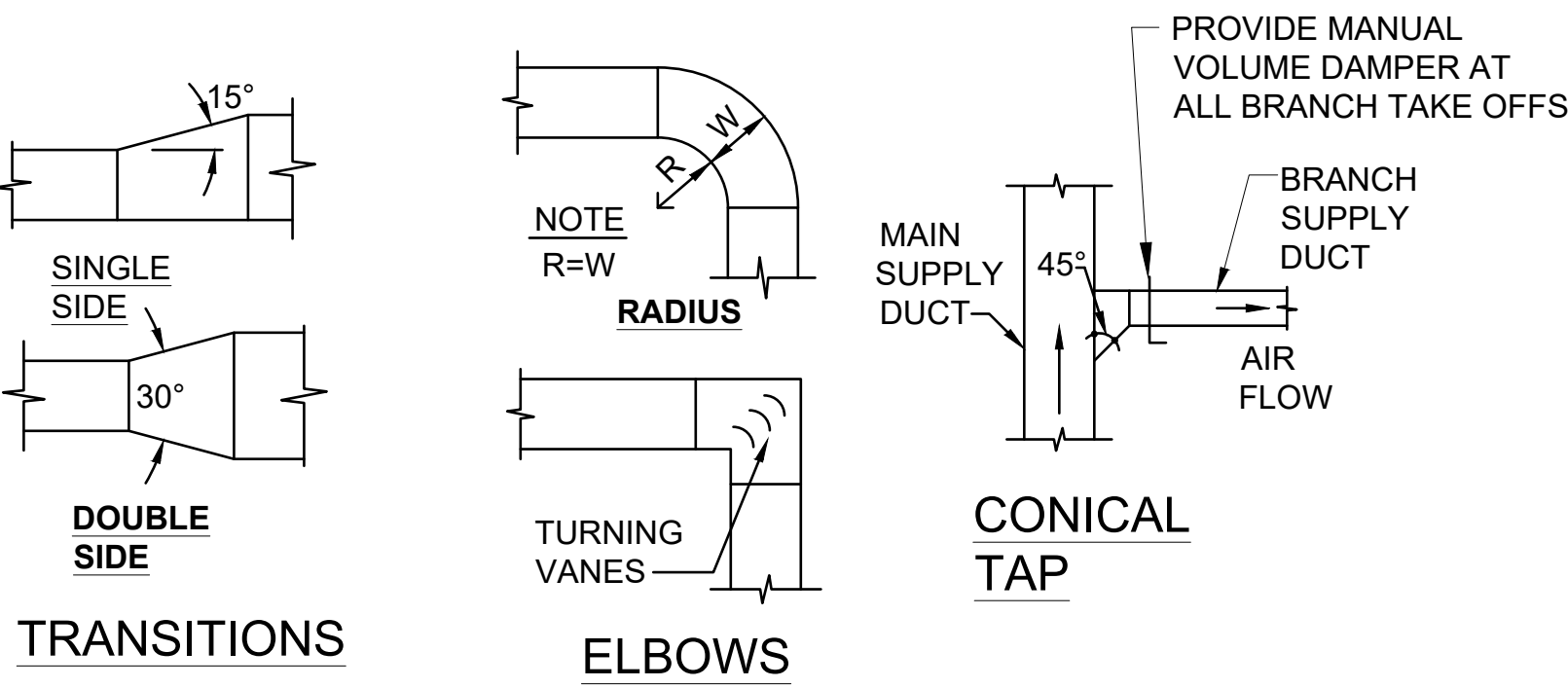
7 EAVE TRIM
3" = 1'-0"

HVAC LEGEND

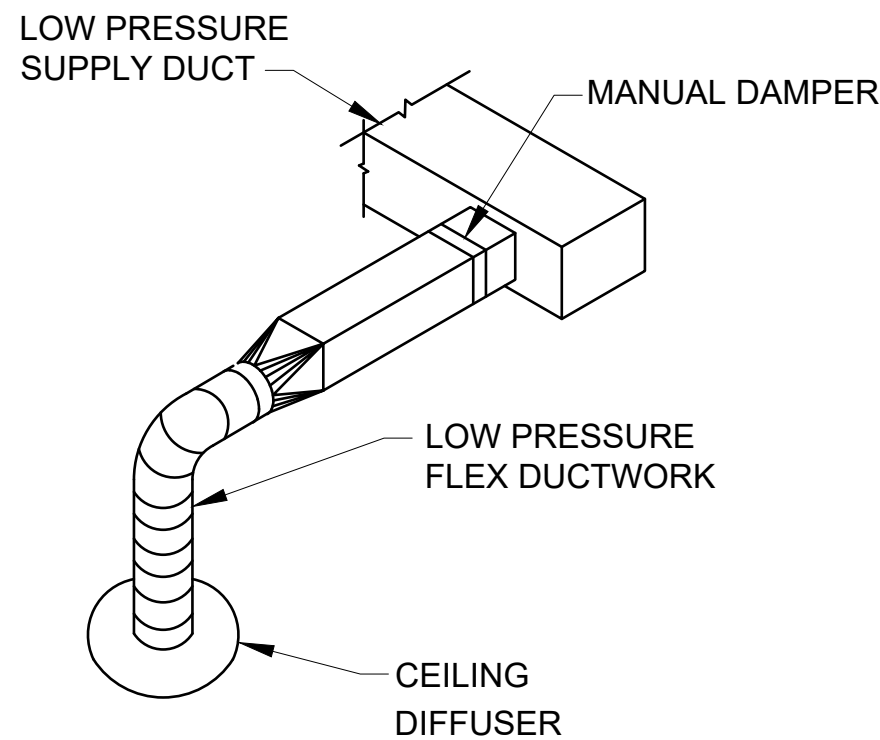
| | | | |
|---|---|---|--|
|  | CONNECT TO EXISTING |  | SUPPLY AIR DUCT, (RECTANGULAR) |
|  | LIMITS OF DEMOLITION |  | RETURN AIR DUCT, (RECTANGULAR) |
|  | THERMOSTAT |  | EXHAUST AIR DUCT, (RECTANGULAR) |
|  | TIMER SWITCH |  | RECTANGULAR DUCTWORK (1ST FIG. SIDE SHOWN, 2ND SIDE NOT SHOWN) |
|  | SYSTEM WATER (WATER SOURCE HEAT PUMP LOOP PIPING) |  | ROUND DUCTWORK |
|  | SWS - SUPPLY |  | FLEXIBLE DUCT, (ROUND) |
|  | SWR - RETURN |  | CEILING DIFFUSER (RECTANGULAR SUPPLY) |
|  | CONDENSATE DRAIN (CD) |  | AIR DEVICE TAG |
| | |  | AIRFLOW (CFM) |
| | |  | INLET SIZE - TAG - # OF THROW DIRECTIONS |
| | |  | DUCT TRANSITION, RECTANGULAR OR ROUND |
| | |  | EQUIPMENT TAG |
| | |  | EQUIPMENT TYPE ABBREVIATION |
| | |  | UNIT MARK # |
| | |  | MVD, MANUAL VOLUME DAMPER |
| | |  | MOTORIZED CONTROL DAMPER |

GENERAL MECHANICAL NOTES:

- ALL WORK SHALL BE IN ACCORDANCE WITH THE CURRENT 2018 UNIFIED VIRGINIA BUILDING CODE, ALL FEDERAL, STATE, AND CITY CODES, ORDINANCES, AND STANDARDS.
- ALL WORK PROVIDED UNDER THIS CONTRACT SHALL BE PROVIDED WITH A 1-YEAR WARRANTY.
- IT IS THE INTENT OF THESE DOCUMENTS THAT THE CONTRACTOR PROVIDE ALL LABOR, MATERIAL, EQUIPMENT AND TOOLS FOR THE COMPLETE INSTALLATION OF ALL WORK SHOWN ON THE PLANS AND/OR DESCRIBED HEREIN, INCLUDING ALL DEVICES AND CONTROLS REQUIRED TO PROVIDE A COMPLETE AND FUNCTIONING SYSTEM.
- THESE DRAWINGS ARE DIAGRAMMATIC IN NATURE. NOT ALL FITTINGS, OFFSETS, VENTS, OR DRAINS ARE SHOWN. THE CONTRACTOR SHALL INCLUDE ALL OFFSETS, VENTS, AND DRAINS AS REQUIRED FOR A FULLY FUNCTIONING SYSTEM.
- IN AREAS WITH UNFINISHED CEILINGS, DUCTWORK AND PIPING SHALL BE ROUTED AS TIGHT TO THE STRUCTURE AS POSSIBLE.
- ENSURE MECHANICAL EQUIPMENT IS INSTALLED TO PROVIDE SUFFICIENT CLEARANCE FOR COIL PULL, AND MINIMUM MANUFACTURER RECOMMENDED MAINTENANCE ACCESS TO EQUIPMENT.
- ALL SUPPLY AIR DIFFUSERS, RETURN, AND EXHAUST GRILLES SHALL BE INSTALLED WITH BALANCING DAMPER LOCATED IN DUCT RUN OUT. DIFFUSERS AND GRILLES SHALL HAVE AN OPPOSED BLADE DAMPER ONLY WHEN DUCT DAMPERS ARE INACCESSIBLE.
- ALL PIPING SHALL BE LABELED FOR ITS USAGE. ALL EQUIPMENT SHALL BE PROVIDED WITH AN ENGRAVED EQUIPMENT TAG.
- PROVIDE CAULKED SEAL AROUND ALL DUCT AND/OR PIPING PENETRATIONS THROUGH NON RATED FULL HEIGHT WALLS TO MINIMIZE SOUND TRANSFER.



DUCTWORK DETAILS



FLEXIBLE DUCT TO DIFFUSER DETAIL

AIR DEVICE SCHEDULE

| MARK | SERVICE | FINISH | BASIS OF DESIGN |
|------|-----------------|--------|-----------------------------------|
| A | SUPPLY | WHITE | PRICE, SCD - SQUARE CODE DIFFUSER |
| B | RETURN/ EXHAUST | WHITE | PRICE, RCG |

NOTES:

- CONTRACTOR SHALL COORDINATE AIR DEVICE MOUNTING WITH CEILING TYPES.

WATER SOURCE HEAT PUMP SCHEDULE

| MARK | SUPPLY AIR FLOW (CFM) | SUPPLY FAN | | COOLING PERFORMANCE | | | HEATING PERFORMANCE | | MAX PD FT H2O | WATER FLOW RATE (GPM) | RUNOUT SIZE (IN.) | ELECTRICAL | | BASIS OF DESIGN (MANUFACTURER,MODEL#) | NOTES |
|------|-----------------------|--------------|--------|------------------------|------------------------------|--------------------------------|--------------------------------|----------------------|---------------|-----------------------|-------------------|------------|-----------------|---------------------------------------|------------------|
| | | ESP (IN H2O) | FAN HP | SENSIBLE COOLING (MBH) | TOTAL COOLING CAPACITY (MBH) | COOLING EFFICIENCY RATIO (EER) | HEATING EFFICIENCY RATIO (COP) | HEATING OUTPUT (MBH) | | | | V / PH | MCA/MOCP (AMP.) | | |
| HP-1 | 430 | 0.00" | 1/12 | 9.6 | 11.3 | 12.2 | 5.04 | 15.5 | 12.5 | 3.1 | 3/4 | 265 / 1 | 7/15 | TRANE, GECE012 | 1, 2, 3, 4, 5, 6 |
| HP-2 | 430 | 0.00" | 1/12 | 9.6 | 11.3 | 12.2 | 5.04 | 15.5 | 12.5 | 3.1 | 3/4 | 265 / 1 | 7/15 | TRANE, GECE012 | 1, 2, 3, 4, 5, 6 |

NOTES:

- CONSOLE TYPE UNIT. MOUNT TO FLOOR/WALL.
- PROVIDE WITH 1IN. MERV 8 AIR FILTER.
- PROVIDE WITH WALL MOUNTED, PROGRAMMABLE THERMOSTAT.
- PROVIDE WITH CONDENSATE OVERFLOW SENSOR AND STATUS DISPLAY.
- PROVIDE WITH UNIT ON/OFF TOGGLE SWITCH.
- PROVIDE UNIT WITH HOT GAS REHEAT COIL AND DEHUMIDIFICATION CONTROLS AND SENSORS AS REQUIRED FOR DEHUMIDIFICATION.

CAPACITIES BASED ON:

COOLING: 95°F EWT, 75°F DB/ 67°F WB EAT

HEATING: 75°F EWT, 70°F EAT




Roanoke / Richmond
New River Valley / Staunton
Harrisonburg / Lynchburg
www.balzer.cc
1208 Corporate Circle
Roanoke, VA 24018
540.772.9580



SALEM COURTHOUSE JURY ROOM
RENOVATION
MECHANICAL SPECIFICATIONS

2 E CALHOUN ST
SALEM, VA 24133

| | |
|-------------|--------------|
| DRAWN BY | JB |
| DESIGNED BY | JNB |
| CHECKED BY | JNB |
| DATED | 08-30-2023 |
| SCALE | As indicated |
| REVISIONS | |



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ENGINEERING

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Project #22065

M1.2

SHALL BE USED IN CHARGING HOSE DURING CHARGING OF SYSTEMS WITH REFRIGERANT.

29. GENERAL
THIS SECTION APPLIES TO ALL MECHANICAL WORK.
ALL INSULATION SHALL BE IN STRICT ACCORDANCE WITH ASHRAE STANDARDS AND ALL LOCAL AND STATE ENERGY CODES.
THE INSULATION WORK SHALL BE PERFORMED BY A FIRM REGULARLY ENGAGED IN THIS TYPE WORK USING MECHANICS SKILLED IN THE TRADE.
INSTALL ALL MATERIALS AS RECOMMENDED BY THE MANUFACTURER FOR THE SERVICE INTENDED. ALL INSULATION MATERIAL, INCLUDING SEALER MATERIAL, ADHESIVES, COVERING MATERIAL, FINISH, ETC. SHALL HAVE A U.L. LISTED FLAME SPREAD RATING NOT OVER 24 WITHOUT EVIDENCE OF CONTINUED PROGRESSIVE COMBUSTION AND WITH A SMOKE DEVELOPED RATING NOT HIGHER THAN 50. ALL COATINGS AND COVERINGS FOR HOT SERVICE SHALL BE BREATHER TYPE AND VAPOR BARRIER TYPE FOR COLD SERVICE.

30. EQUIPMENT:
CAPACITY, PERFORMANCE AND CHARACTERISTICS OF EQUIPMENT SHALL BE AS INDICATED ON THE DRAWINGS AND AS SPECIFIED OR IMPLIED HEREIN. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY INCREASED COST TO HIMSELF OR OTHERS FOR EQUIPMENT WHICH DEVIATES FROM THAT SCHEDULED OR IMPLIED HEREIN. REGARDLESS OF COST AFFECT, THE ARCHITECT MUST APPROVE ANY DEVIATION FROM THE DRAWINGS AND THE SPECIFICATION.

31. MOTORS AND STARTERS:
ALL ELECTRIC MOTORS SHALL BE HIGH EFFICIENCY TYPE WITH MAXIMUM OF 1750 RPM WITH OPEN DRIP PROOF OR TEFC ENCLOSURES, UNLESS OTHERWISE NOTED. MOTORS LOCATED ON AIR HANDLING UNITS SHALL BE MOUNTED IN RUBBER SUPPORTS OR THE FAN SHALL BE INDEPENDENTLY SUPPORTED ON SPRING ISOLATORS. MOTORS LOCATED IN THE CONDITIONED SPACE SHALL BE SELECTED FOR QUIET OPERATION AND SHALL NOT PRODUCE AN OBJECTIONABLE "MOTOR NOISE" IN THE SPACE.
ELECTRICAL CHARACTERISTICS SHALL BE VERIFIED FROM THE ELECTRICAL DRAWINGS, PRIOR TO BIDDING, AND VERIFIED ON THE JOB WITH THE ELECTRICAL SUB-CONTRACTOR. IF A CONFLICT ARISES, THE ELECTRICAL DRAWINGS SHALL BE THE AUTHORITY.
PROVIDE MOTOR STARTERS AND PROPER HEATER ELEMENTS SIZED IN ACCORDANCE WITH NFPA 70. STARTERS SHALL BE SQUARE-D OR EQUIVALENT WITH OVERLOAD TRIP ELEMENT IN EACH PHASE. LARGER MOTORS AND THEIR STARTERS SHALL MEET THE REQUIREMENTS OF THE UTILITY COMPANY AS TO INRUSH ALLOWABLE AND THE TYPE OF STARTING PERMITTED.
SHOULD ANY MECHANICAL EQUIPMENT REQUIRE EXTRA WORK BY OTHER TRADES, FOR PROPER INSTALLATION, THIS CONTRACTOR SHALL BEAR ALL COSTS, SUCH AS INCREASED ELECTRICAL, STRUCTURAL, ROOFING, ETC.

32. SYSTEMS TEST AND BALANCE:
THE REQUIRED TEST & BALANCE OF THE HVAC SYSTEM SHALL BE PERFORMED BY AN APPROVED INDEPENDENT TESTING AGENCY AS SPECIFIED BELOW.
AGENCY QUALIFICATIONS:
TEST & BALANCE SHALL BE PERFORMED BY AN INDEPENDENT AGENCY ENGAGED SOLELY IN TEST AND BALANCE WORK. AGENCY SHALL BE A MEMBER OF THE ASSOCIATED AIR BALANCE COUNCIL (AABC) AND NATIONAL ENVIRONMENTAL BALANCING BUREAU, (NEBB). SUBMIT A WRITTEN REPORT WITHIN 30 DAYS OF COMMENCING WORK, WITH ANY RECOMMENDED CHANGES TO INSURE BALANCING CAPABILITY. SUBMIT A DETAILED TEST PLAN TO THE ARCHITECT ILLUSTRATING ALL FORMATS, DRAWINGS, AND TEST PROCEDURE TO BE USED FOR TESTING THE COMPLETED SYSTEM. THE APPROVED PLAN WILL BE USED FOR TESTING THE SYSTEMS. PROCEDURES SHALL INCLUDE REQUIREMENTS LISTED IN AABC/NEBB STANDARDS, LATEST EDITION AND ANY SPECIAL REQUIREMENTS FOR THIS PROJECT. MAKE PROJECT VISITS AS REQUIRED DURING CONSTRUCTION PERIOD INSPECTING FOR PROPER INSTALLATION OF THE SYSTEM AND RELATED BALANCING DEVICES. PROJECT VISIT REPORTS SHALL BE MADE TO THE ARCHITECT IN WRITING.
CONTRACTORS REQUIREMENTS PRIOR TO TEST & BALANCE:
THE CONTRACTOR SHALL PERFORM ALL REQUIRED PRELIMINARY TESTS AND OTHER PREPARATORY WORK, INCLUDING BUT NOT LIMITED TO:
MAKE SURE ALL FANS ARE OPERATING, CHECK ROTATION, RPM, AND AMPS. CHECK ALL DAMPERS FOR OPERATION.
PUT ALL HVAC EQUIPMENT IN FULL OPERATION INCLUDING AIR UNITS AND FANS. MAKE SURE ALL HVAC CONTROLS ARE INSTALLED AND FULLY OPERATIONAL. CLEAN/REPLACE FILTERS JUST PRIOR TO TESTING.
PROVIDE ALL BALANCING DEVICES AND DRIVE CHANGES THAT ARE DEEMED NECESSARY BY T&B AGENCY FOR BALANCE AT NO ADDITIONAL COST TO THE OWNER.
TEST & BALANCE AGENCY SHALL BALANCE ALL AIR SYSTEMS FOR OPERATION WITHIN DESIGN CRITERIA. PRIME MOVERS SHALL BE WITHIN 5% OF DESIGN AND TERMINALS WITHIN 10% OF DESIGN. AIR SYSTEMS SHALL BE BALANCED AS DESCRIBED HEREIN.
TEST REPORT: THE FINAL TAB REPORT SHALL BE SUBMITTED IN PDF FORMAT.
REPORT SHALL BE INDEXED.
TABLE OF CONTENTS SHALL LIST ALL REPORTS.
ALL AIR OUTLETS SHALL BE LOCATED ON CODED DRAWINGS PREPARED BY THE T&B AGENCY. AIR OUTLETS FORMS SHALL BE PREPARED AND CORRELATED TO THE CODED DRAWINGS.
TEST SUMMARY SHALL DESCRIBE FINAL TEST PROCEDURES AND SPECIAL CONDITIONS DURING TESTS (SUCH AS THERMOSTAT OUTSIDE/RETURN AIR RELATIONSHIP), AND DUCT STATIC PRESSURE. DESCRIBE OTHER DATA THAT MAY ASSIST OPERATING PERSONNEL IN THE CONTINUING OPERATION OF THE SYSTEM.
T&B CONTRACTOR SHALL TAKE AND RECORD ALL NECESSARY READINGS AT THE FINAL BALANCE POINTS, SUCH AS BUT NOT LIMITED TO: AIR QUANTITIES, PRESSURES, SETPOINTS, ENTERING AND LEAVING COIL TEMPERATURES, SPACE INDOOR AND OUTSIDE WET AND DRY BULB TEMPERATURES, OUTDOOR WEATHER CONDITIONS, ELECTRICAL READINGS OF ALL NEW AND EXISTING MOTORS, COMPRESSORS, ETC.
TEST REPORT SHALL CONTAIN TBA CERTIFICATION OF TEST DATA AND SYSTEM CONDITIONS. SUBMIT THE TEST REPORTS, FOR REVIEW, BEFORE SUBSTANTIAL COMPLETION.
END OF MECHANICAL SPECIFICATIONS.

ETC.
HVAC EQUIPMENT, METHODS AND MATERIALS

18. DUCTWORK GENERAL:
DUCT SIZES SHOWN ON THE DRAWINGS ARE INSIDE DIMENSIONS AND DO NOT TAKE INTO ACCOUNT LINING THICKNESS. DUCTWORK SHALL BE GALVANIZED SHEET METAL WITH GAUGES, CONSTRUCTION DETAILS AND INSTALLATION ACCORDING TO N.F.P.A. STANDARD 90A, ASHRAE, AND SMACNA DUCT CONSTRUCTION MANUALS AND REQUIREMENTS. PROVIDE FLEXIBLE CONNECTIONS AT AIR HANDLING UNITS AND FANS. PROVIDE SINGLE THICKNESS TURNING VANES IN ELBOWS. PAINT DUCTS, SLEEVES, PLENUMS, ETC., INTERIORS VISIBLE THROUGH AIR DEVICES WITH A MINIMUM OF ONE COAT OF PROPER TYPE RUST PREVENTATIVE PRIMER, SUITABLE FOR GALVANIZED STEEL, AND TWO FINISH COATS OF FLAT BLACK PAINT.

19. DUCT CONSTRUCTION MATERIALS:
ALL SUPPLY DUCTWORK WHICH IS CONCEALED ABOVE CEILINGS AND/OR LOCATED WITHIN MECHANICAL ROOMS SHALL BE EXTERNALLY INSULATED UNLESS SPECIFICALLY CALLED OUT ON THE DRAWINGS AS INTERNALLY LINED. RETURN DUCTS LOCATED OUTSIDE OF THE BUILDINGS INSULATION ENVELOPE SHALL BE INSULATED (EXTERNALLY IF NOT EXPOSED TO VIEW BY THE PUBLIC). ALL EXPOSED, SUPPLY AND RETURN DUCTWORK, SHALL BE DOUBLE-WALLED INTERNALLY INSULATED DUCT WITH PERFORATED INTERNAL LINER, 1" ACOUSTIC INSULATION AND GALVANIZED SHEET METAL EXPOSED ON EXTERIOR. ALL OUTSIDE AIR DUCTWORK SHALL BE INSULATED. ALL EXPOSED DUCTWORK SHALL BE SPIRAL SHEET METAL DUCTWORK.
FLEXIBLE DUCT: PRE-INSULATED FLEXIBLE DUCT. NO FLEXIBLE DUCT RUNS LONGER THAN 5 FEET.

20. FABRICATION, ERECTION, AND SUPPORT:
ALL DUCTWORK SHALL BE FABRICATED, ERECTED, BRACED, AND SUPPORTED IN STRICT ACCORDANCE WITH THE LATEST EDITIONS OF SMACNA AND ASHRAE REQUIREMENTS.

21. ACOUSTIC LINED DUCTWORK:
ACOUSTICALLY AND THERMALLY LINE RETURN, AND EXHAUST DUCT (WITHIN 10FT OF FANS) AND PLENUMS WITH 1" THICK, 1 1/2 PCF FIBERGLASS DUCT LINER, APPLIED PER THE MANUFACTURER'S AND NAIMA REQUIREMENTS. DUCT LINER SHALL MEET AND/OR EXCEED ASHRAE'S I.A.Q. STANDARD 62. USE WELDED STICK CLIPS, IN LIEU OF ADHESIVE TYPE FASTENERS AND FULL COVERAGE ADHESIVE. PROVIDE EDGE NOSINGS WHERE REQUIRED. COAT ALL EXPOSED FIBERGLASS WITH HARDCAST "LAG-GRIP 671".

22. JOINT SEALING:
SEAL ALL DUCT JOINTS AND SEAMS (LONGITUDINAL AND TRANSVERSE) WITH HIGH PRESSURE DUCT SEALER, HARDCAST "IRON-GRIP 601" OR APPROVED EQUIVALENT. REINFORCED FOIL BACKED TAPES, CLOTH OR PLASTIC BACKED TAPES (DUCT TAPE) ARE NOT ACCEPTABLE.

23. FLEXIBLE AIR DUCT:
DUCT SHALL BE UL LISTED UL-181, CLASS I AIR DUCT MATERIAL AND SHALL COMPLY WITH N.F.P.A 90A AND 90B AND ALL LOCAL REQUIREMENTS. DUCT SHALL HAVE AN OPERATING AIR PRESSURE OF 6 INCHES WG POSITIVE AND 4 INCHES WG NEGATIVE, ACOUSTICAL DOUBLE LAMINATED INNER FABRIC BONDED TO A STEEL HELIX WIRE. OUTER JACKET FIRE RETARDANT REINFORCED ALUMINUM MYLAR WITH FIBERGLASS INSULATION. FLEXMASTER TYPE "8M" ACOUSTICAL INSULATED OR EQUIVALENT.
MAKE ALL FLEXIBLE DUCT CONNECTIONS TO HARD DUCT USING STAINLESS STEEL SCREW CLAMPING BANDS AND SEALED AIR TIGHT WITH HIGH PRESSURE DUCT SEALER. PLASTIC BANDS ARE NOT ACCEPTABLE.
SEAL FLEXIBLE DUCT VAPOR BARRIER TO HARD DUCT AND/OR ADJACENT INSULATION. NO EXPOSED FIBERGLASS SHALL BE VISIBLE.

24. AIR DISTRIBUTION DEVICES:
COORDINATE THE EXACT LOCATIONS OF ALL AIR DEVICE NEEDS WITH THE ARCHITECTURAL DRAWINGS PRIOR TO INSTALLATION. COORDINATE THE EXACT LOCATION OF EACH OUTLET WITH THE ARCHITECT WITH REGARD TO CEILING AND WALL SPACING, CENTERING ABOVE SOFFITS, WALLS, ETC. FURNISH AND INSTALL WHERE SHOWN ON THE DRAWINGS ALL DIFFUSERS, GRILLES, AND REGISTERS OF THE SIZE, TYPE, AND CAPACITY AS INDICATED IN THE AIR DEVICE SCHEDULE. ELBOWS:

25. TURNING VANES AND SMOOTH RADIUS ELBOW (WITHOUT VANES):
AT ALL DUCT TURNS OF 45 DEGREES OR MORE, PROVIDE SINGLE THICKNESS TURNING VANES PER SMACNA REQUIREMENTS. ALTERNATIVELY, USE SMOOTH RADIUS ELBOW (R/W = 1.5).

26. BRANCH TAKEOFF FITTINGS:
AT ALL MAIN TO BRANCH DUCT TAPS, TAKEOFFS, OR RUN-OUTS, PROVIDE 45 DEGREE ENTRANCE TAPS, AS DETAILED BY SMACNA STANDARDS.

27. DUCT MOUNTED ACCESS PANELS:
INSTALL ACCESS PANELS AS FOLLOWS:
AT INLET OF EACH DUCT MOUNTED FIRE AND MOTORIZED DAMPER.
FOR DUCT MOUNTED CONTROLS.
AS REQUIRED AND DIRECTED BY THE TEST AND BALANCE CONTRACTOR.
WHERE REQUIRED FOR DUCT INSPECTION, MAINTENANCE, AND CLEANING.
ACCESS PANELS SHALL BE 18 INCHES X 18 INCHES OR LARGEST DUCT WILL ALLOW. NORMALLY CENTER THE ACCESS PANEL IN THE BOTTOM OF THE DUCT AS CLOSE AS POSSIBLE TO THE DUCT MOUNTED DEVICE. ACCESS PANELS MAY BE INSTALLED ON THE SIDE OF THE DUCT, WHERE NECESSARY.
ACCESS PANELS SHALL BE DOUBLE WALL INSULATED HINGED WITH NEOPRENE GASKETS AND CAM LOCKS ON EACH UNHINGED SIDE. WHERE REQUIRED BECAUSE OF PANEL OPENING CLEARANCE, SUBSTITUTE UNHINGED ACCESS PANELS WITH CAM LOCKS ON EACH SIDE AND CAPTIVE CHAIN. ACCESS PANELS SHALL BE FLEXMASTER "TBSM-TAB DOOR" GREENHECK MODEL "HAD-10", OR EQUIVALENT.

28. REFRIGERANT PIPING:
REFRIGERANT PIPING SHALL CONFORM TO THE REQUIREMENTS OF THE SAFETY CODES FOR MECHANICAL REFRIGERATION AND REFRIGERANT PIPING AND THE MANUFACTURER REQUIREMENTS.
RUN ALL PIPING SQUARE TO BUILDING LINES WHEREVER POSSIBLE. FIELD ROUTE PIPING IN ORDER TO PROVIDE FOR EASE OF ACCESS TO VALVES AND OTHER APPURTENANCES.
SUPPORT INTERIOR PIPING FROM THE BUILDING STRUCTURE USING COPPER OR PVC COATED HANGERS. SUPPORT REFRIGERANT PIPING 4 FOOT ON CENTER AND AT EACH CHANGE OF DIRECTION. PROVIDE 4" WIDE INSULATION SADDLES.
SUBMIT REFRIGERANT PIPING LAYOUT SHOP DRAWINGS FOR EACH UNIQUE SYSTEM, REVIEWED AND APPROVED BY THE MANUFACTURER, IN WRITING. SHOW ALL FILTERS, DRIERS, SIGHT-GLASSES, VALVES, ETC. AS REQUIRED BY THE MANUFACTURER.
USE REFRIGERANT GRADE, TYPE "K" HARD DRAWN COPPER PIPE WITH LONG RADIUS ELBOWS. NO CAST FITTINGS ARE ACCEPTABLE.
INSTALL FILTER DRIER EQUIVALENT TO SPORLAN CATCH-ALL.
INSTALL SIGHT GLASSES WITH MOISTURE INDICATORS COVERED BY A PROTECTIVE CAP. LOCATE THE SIGHT GLASSES INSIDE THE BUILDINGS, CLOSE TO THE FAN COIL IN THEIR RESPECTIVE MECHANICAL CLOSETS.
PROVIDE EXTERNAL FRONT SEATED BRASS SERVICE VALVES WITH SWEAT CONNECTIONS, WITH SERVICE PORTS FOR CHECKING OPERATING REFRIGERANT PRESSURES.
COPPER SHALL BE CLEANED AND SHINED BEFORE BRAZING. BRAZE USING J.W. HARRIS "DYNAFLOW" 6% SILVER BRAZING ALLOY.
PIPING SHALL BE PURGED WITH DRY NITROGEN WHILE BRAZING TO PREVENT OXIDATION. UPON COMPLETION OF A WELD, THE WELD SHALL BE WIPED WITH A DAMP RAG TO REMOVE FLUX WHILE STILL HOT.
ALL PIPING SHALL BE TESTED FOR 24 HOURS IN ACCORDANCE WITH THE FOLLOWING SCHEDULE AND PROVEN TIGHT:
DISCHARGE AND LIQUID REFRIGERANT PIPING--300 PSIG, NITROGEN.
SUCTION REFRIGERANT PIPING--150 PSIG NITROGEN.
REFRIGERANT PIPING, AFTER PROVEN TIGHT, SHALL BE EVACUATED BY MEANS OF AN APPROVED VACUUM PUMP TO A VACUUM OF 2.5 MM HG ABSOLUTE. SYSTEMS SHALL STAND UNDER VACUUM WITH VACUUM PUMP OFF FOR A MINIMUM OF 12 HOURS. SYSTEMS MAY BE CHARGED WITH PROPER REFRIGERANT AFTER ARCHITECT'S APPROVAL OF VACUUM TEST. A DEHYDRATOR

REMOVING ALL STICKERS, LABELS, MARKING, WRITING, FABRICATION MARKINGS, IDENTIFICATION, ADHESIVE, SEALER, GLUE, RUST, CORROSION, ETC., FROM THEIR EXTERIOR SURFACES.
THE CLEANLINESS AND PAINTING ACCEPTABILITY IS AT THE SOLE DISCRETION OF THE ARCHITECT AND MAY REQUIRE ADDITIONAL CLEANING AND COATS OF PAINT BEFORE ANY SURFACE IS ACCEPTED.

14. SUBMITTAL AND SHOP DRAWINGS:
SUBMIT MANUFACTURER'S CERTIFIED DATA RELATIVE TO ALL EQUIPMENT, PIPING, CONTROLS, ETC. REQUIRED FOR THE INSTALLATION OF THE HVAC, PLUMBING AND FIRE PROTECTION SYSTEMS. SUBMIT FOR REVIEW ALL NECESSARY ENGINEERING, PRODUCT AND INSTALLATION DATA, SHOP DRAWINGS, SAMPLES ETC. FOR ALL EQUIPMENT, MATERIAL, AND SYSTEMS TO ASCERTAIN COMPLIANCE WITH THE TECHNICAL REQUIREMENTS OF THE CONTRACT DOCUMENTS. SUBMIT SIX (6) COPIES OF ALL NECESSARY DATA, CUTS, MANUFACTURER'S SELECTIONS, CATALOGS, BULLETINS, INSTALLATION INSTRUCTIONS, DRAWINGS, DIAGRAMS, CURVES, ETC. CLEARLY INDICATE ON THE SUBMITTED DATA, THE MANUFACTURER'S NAME, PRODUCT NUMBER(S), OPTIONS, EQUIPMENT CAPACITY, DIMENSIONAL DATA, WEIGHTS, AND OTHER APPLICABLE TECHNICAL DATA FOR THE PROJECT.
TRADE NAMES, MANUFACTURERS, AND CATALOGUE NUMBERS ARE MENTIONED HEREIN AND ON THE DRAWINGS SOLELY IN ORDER TO ESTABLISH A STANDARD FOR THE TYPE, GENERAL DESIGN, AND QUALITY OF PRODUCT REQUIRED. OTHER PRODUCTS SIMILAR IN DESIGN OF EQUIVALENT QUALITY CAPABLE OF FITTING WITHIN THE SPACES ALLOCATED AND COMPLYING WITH THE DRAWINGS AND SPECIFICATIONS WILL BE CONSIDERED AFTER THE CONTRACT IS LET UNLESS "PRIOR APPROVAL" REQUIREMENTS ARE SET FORTH IN THESE DOCUMENTS.
WHERE TWO OR MORE MANUFACTURERS OR MATERIALS ARE NAMED, THE CONTRACTOR MAY SUBMIT ANY OF THOSE NAMES, PROVIDED THEY CONFORM TO THE SPECIFICATIONS AND DESIGN INTENT. CONTRACTOR SHALL INCLUDE WITH THE SUBMITTAL A LIST OF ALL COMPARATIVE FEATURES INDICATING COMPLIANCE WITH THE SPECIFICATIONS.
THE ARCHITECT AND/OR ENGINEER MAY REQUIRE THE SUBMISSION OF SAMPLES, PARTICULARLY WHEREVER EQUIPMENT OR APPLIANCES ARE VISIBLE IN FINISHED AREAS, SUCH AS CEILINGS, INTERIOR AND EXTERIOR WALLS. THE CONTRACTOR AND SUPPLIER SHALL ARRANGE FOR DEMONSTRATIONS OF THE INSTALLATION OF ANY OF THESE PRODUCTS AND THEIR ABILITY TO PERFORM AS SPECIFIED, IF REQUIRED.
REVIEW OF SUBMITTALS AND SHOP DRAWINGS DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY FOR FITTING THE EQUIPMENT IN THE SPACE ALLOTTED WITH SPACE FOR ALL CONNECTIONS AND SERVICING AND FOR THE COORDINATION OF THE WORK WITH WORK OF OTHER TRADES.

THE CONTRACTOR SHALL REVIEW ALL SUBMITTALS AND SHOP DRAWINGS AND INDICATE BY STAMP OR LETTER THAT HE HAS REVIEWED THEM, BEFORE FORWARDING THEM TO THE ARCHITECT AND/OR ENGINEER. SUBMITTALS AND DRAWINGS WILL BE RETURNED AFTER REVIEW INDICATING WHETHER EXCEPTIONS ARE TAKEN, THE SUBMITTAL RETURNED WITH CORRECTIONS, OR IS COMPLETELY REJECTED. RESUBMISSION OF REVISED SUBMITTALS AND SHOP DRAWINGS, IF REQUIRED, SHALL BE DONE BEFORE INSTALLATION AND CONSTRUCTION IS BEGUN. CORRECTIONS OR COMMENTS MADE ON THE SUBMITTALS AND DRAWINGS DURING THIS REVIEW DOES NOT RELIEVE THE CONTRACTOR FROM COMPLIANCE WITH THE REQUIREMENTS OF THE CONTRACT DOCUMENTS. THIS REVIEW IS FOR GENERAL CONFORMANCE WITH THE DESIGN CONCEPT OF THE PROJECT AND GENERAL COMPLIANCE WITH THE INFORMATION GIVEN IN THE CONTRACT DOCUMENTS. THE CONTRACTOR IS RESPONSIBLE FOR CONFIRMING AND CORRELATING ALL QUANTITIES AND DIMENSIONS, FABRICATION PROCESSES, TECHNIQUES OF CONSTRUCTION, COORDINATING THE WORK WITH THAT OF ALL OTHER TRADES, AND PERFORMING WORK IN A SAFE AND SATISFACTORY MANNER. REVIEW OF THE SUBMITTALS SHALL NOT PERMIT ANY DEVIATION FROM PLANS AND SPECIFICATIONS.
SUBMITTALS FOR A SPECIFIC CLASS OF PRODUCTS, SYSTEMS, INSTALLATION PROCEDURES, SHOP DRAWINGS, ETC. WILL BE REVIEWED BY THE ENGINEER ONE TIME AND ITS RESUBMITTAL ONE TIME, IF NECESSARY, AS ABOVE, AT NO COST TO THE CONTRACTOR. THE CONTRACTOR WILL BEAR THE FULL COST FOR ALL SUBSEQUENT RESUBMITTAL REVIEWS AT THE ENGINEER'S STANDARD HOURLY RATES. PAYMENT WILL BE REQUIRED AT COMPLETION OF RESPECTIVE REVIEW.
REQUIRED SHOP DRAWINGS:
SUBMIT THE FOLLOWING SHOP DRAWINGS BEFORE ANY MECHANICAL DUCTWORK, PIPING, EQUIPMENT, ETC. IS FABRICATED AND INSTALLED. SUBMIT THESE SHOP DRAWINGS IN 1/4 INCH PER FOOT MINIMUM SCALE WITH NECESSARY PLANS, ELEVATIONS, SECTIONS, DETAILS, AND ISOMETRICS. SUBMIT SIX (6) PAPER COPIES AND ONE (1) CD-ROM WITH ALL THESE DRAWINGS IN AUTOCAD DRAWING DWG FILES, LATEST AUTOCAD FORMAT.
SOON AFTER AWARD OF THE CONTRACT, DETERMINE WHERE THERE MAY BE INSTALLATION, SPACE CONCERNS, AND/OR WHERE OTHER CONFLICTS MAY OCCUR. SUBMIT COORDINATION DRAWINGS, RELATING TO THESE CONFLICTS WITH THE MECHANICAL EQUIPMENT, DUCT, PIPING, ELECTRICAL, STRUCTURAL AND ARCHITECTURAL SYSTEMS ETC., SHOWING CLEARANCES AND RELATIONSHIP TO STRUCTURAL MEMBERS, PIPING, LIGHTS, CONDUITS, ELECTRICAL EQUIPMENT, AND BUILDING COMPONENTS. IN PREPARING THESE SHOP DRAWINGS, ESTABLISH LINES AND LEVELS FOR ALL DIVISIONS OF THE WORK IN THE AFFECTED AREA. IMMEDIATELY CALL TO THE ATTENTION OF THE ARCHITECT ANY INTERFERENCE OR CONFLICT FOR CLARIFICATION IN WRITING.
SUBMIT SHOP DRAWINGS FOR ALL DUCTWORK. SUBMIT LAYOUT DRAWINGS OF EACH MECHANICAL SYSTEM SHOWING THE LOCATION, ARRANGEMENT, ETC. OF ALL EQUIPMENT, ALL TRADES, ETC. TO BE INSTALLED RELATED TO THE RESPECTIVE SYSTEM.

15. AS-BUILT DRAWINGS:
MAINTAIN DAILY UPDATED DRAWINGS SHOWING DEVIATIONS FROM CONSTRUCTION DOCUMENTS. AT THE END OF THE PROJECT, PROFESSIONALLY PREPARE AS-BUILT DRAWINGS AND SUBMIT THREE COPIES, ONE REPRODUCIBLE.

16. OPERATION AND MAINTENANCE MANUALS:
UPON COMPLETION OF THE PROJECT, SUBMIT THREE COPIES OF ALL OPERATION AND MAINTENANCE MANUALS, WARRANTIES, SPARE PARTS LIST, AS-BUILT DRAWINGS, TEST AND BALANCE REPORTS, AND LETTER OF GUARANTEE ALL BOUND IN THREE RING BINDERS, CLEARLY SHOWING WHICH EQUIPMENT WAS SUPPLIED TO THE JOB.

17. PROJECT COMPLETION:
BEFORE STARTING AND TESTING ANY SYSTEM, HVAC, OR PLUMBING, TO PREVENT INADVERTENT OPERATION OF THE MECHANICAL EQUIPMENT BEFORE THE MANUFACTURER'S INSPECTION AND TESTING, THE CONTRACTOR SHALL:
VERIFY THAT ALL ELECTRICAL POWER IS OFF TO ALL MECHANICAL EQUIPMENT, INCLUDING THE AHU'S, ACCU'S, BOOSTER PUMPS, FIRE PUMPS, ETC.
LOCK OUT EACH SYSTEM USING SETON MODEL NUMBER 70329; "DO NOT OPERATE" LOCK ON LOCKOUT TAGS, OR EQUIVALENT. INSTALL LOCKOUT TAGS AT EACH PIECE OF EQUIPMENT, ELECTRICAL DISCONNECTS, STARTERS, SWITCHES, ETC.
REMOVE THESE TAGS ONLY WHEN THE MANUFACTURER APPROVES OF THE EQUIPMENT INSTALLATION IN WRITING. EACH MANUFACTURER OR THEIR REPRESENTATIVE SHALL INSPECT THEIR EQUIPMENT FOR COMPLIANCE TO THEIR INSTALLATION REQUIREMENTS AND RECOMMENDATIONS. IN ADDITION, THE COMPRESSOR MANUFACTURER SHALL INSPECT EACH REFRIGERANT PIPING INSTALLATION FOR ADHERENCE TO THE APPROVED REFRIGERANT PIPING DIAGRAMS, ROUTING. EACH MANUFACTURER SHALL PREPARE A PUNCH LIST OF ALL DEFICIENCIES, IN WRITING WITH COPIES TO THE ARCHITECT AND CONTRACTOR.
EACH MANUFACTURER SHALL REINSPECT THE EQUIPMENT AFTER THE CONTRACTOR HAS CORRECTED ALL DEFICIENCIES. WHEN THE MANUFACTURER HAS GIVEN THEIR WRITTEN APPROVAL WITH COPIES TO THE ARCHITECT AND CONTRACTOR, THE CONTRACTOR MAY REMOVE THE LOCKOUT TAGS, SAFELY START, AND TEST THE EQUIPMENT, AS REQUIRED HEREIN.
CONTRACTOR SHALL PROVIDE FOR ALL NECESSARY DRILLING OF WALL STUDS, CEILING JOISTS, PLATES, FINISHES, ETC. TO ACCOMMODATE ROUTING AND INSTALLATION OF ALL PIPING, DUCT,

GENERAL MECHANICAL SPECIFICATIONS

1. SCOPE:
PROVIDE ALL MATERIALS, LABOR, TOOLS AND INCIDENTALS NECESSARY TO INSTALL AND MAKE READY FOR OWNER'S USE COMPLETE SYSTEMS OF HEATING, VENTILATION, AIR CONDITIONING (HVAC), PLUMBING, FOR THE PROPOSED WORK AND BUILDING RENOVATIONS AS SHOWN ON THE DRAWINGS AND CALLED FOR IN THESE SPECIFICATIONS. THE CONTRACTOR IS RESPONSIBLE FOR THE COORDINATION WITH OTHER DIVISIONS OF WORK FOR THE FULL EXTENT OF THE SCOPE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY ALL ASPECTS, COMPONENTS, SYSTEMS, ETC. AND ACCOMMODATE THE PERFORMANCE INTENT OF THE CONSTRUCTION DOCUMENTS THROUGHOUT THE PROJECT SCOPE.

2. BIDDERS RESPONSIBILITY:
EXAMINE THE DRAWINGS AND SPECIFICATIONS AND VISIT THE WORK SITE. BECOME FAMILIAR WITH THE CHARACTER OF THE WORK, THE COORDINATION WITH OTHER TRADES REQUIRED, AND ANY OTHER CONDITIONS THAT AFFECT THE COMPLETION OF THIS WORK. GENERAL CONTRACTOR SHALL BE REQUIRED TO COORDINATE WORK WITH TENANT FINISH CONTRACTOR IN A SIDE BY SIDE SCENARIO.

3. PERMITS, CODES AND LAWS:
APPLY FOR ALL PERMITS AND PAY ALL FEES.
ALL WORK SHALL BE IN ACCORDANCE WITH LATEST EDITIONS OF THE FOLLOWING RULES AND REGULATIONS, HEREIN REFERRED TO AS "CODES":
THE LATEST OR ADOPTED EDITION OF THE APPLICABLE LOCAL, STATE, AND FEDERAL BUILDING, MECHANICAL, SANITATION, PLUMBING, ETC. CODES.
UNDERWRITER'S LABORATORIES, INC. (U.L) NATIONAL FIRE PROTECTION ASSOCIATION (N.F.P.A.) OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (O.S.H.A)
WHERE ANY OF THESE CODES ARE AT VARIANCE WITH THE DRAWINGS AND SPECIFICATIONS, THEIR REQUIREMENTS SHALL TAKE PRECEDENCE, UNLESS THE DRAWINGS AND SPECIFICATIONS REQUIREMENTS EXCEED THESE CODES. INCLUDE ANY COST NECESSARY TO MEET THESE CODES IN THE BID PRICE.

4. MECHANICAL PLANS:
THE MECHANICAL PLANS ARE DIAGRAMMATIC AND BASED ON ONE MANUFACTURER'S EQUIPMENT.
THEY ARE NOT INTENDED TO SHOW EVERY ITEM IN ITS EXACT LOCATION, THE EXACT DIMENSIONS, OR ALL THE DETAILS OF THE EQUIPMENT. VERIFY THE ACTUAL DIMENSIONS OF THE EQUIPMENT PROPOSED TO BE USED. INSTALLATION SHALL BE WITHIN THE LIMITATIONS IMPOSED BY THE ARCHITECTURAL, STRUCTURAL, HVAC, ELECTRICAL, AND PLUMBING REQUIREMENTS WITH ADEQUATE SPACE FOR MAINTENANCE.

5. QUESTIONS AND CLARIFICATIONS OF BID DOCUMENTS:
BIDDERS SHALL NOT RELY ON ANY ORAL CLARIFICATION OF THE DRAWINGS OR SPECIFICATIONS. ANY QUESTIONS OR CLARIFICATIONS SHALL BE REFERRED IN WRITING TO THE ARCHITECT.

6. GUARANTEES:
ALL EQUIPMENT, MATERIALS, AND WORKMANSHIP SHALL BE GUARANTEED IN WRITING FOR A PERIOD OF ONE YEAR FROM THE DATE OF FINAL ACCEPTANCE. WARRANTIES SHALL BE IN WRITING AND SHALL INCLUDE FACTORY WARRANTIES FOR EACH PIECE OF EQUIPMENT. PROVIDE A CERTIFICATE FOR EACH PIECE OF EQUIPMENT. CLEARLY INDICATE ON EACH WARRANTY CERTIFICATE THE MODEL NO., SERIAL NO., LOCATION, AND OWNER'S NAME.

7. COMPLETE SYSTEM:
ALL PRODUCTS, MATERIALS AND ACCESSORIES SHALL BE FURNISHED AND INSTALLED AS REQUIRED FOR A COMPLETE SYSTEM READY FOR OWNER'S BENEFICIAL USE.

8. WORKMANSHIP:
ALL WORK SHALL BE PERFORMED BY COMPETENT MECHANICS USING PROPER TOOLS AND EQUIPMENT TO PRODUCE FIRST QUALITY WORK. ALL WORK SHALL BE NEATLY INSTALLED, ACCESSIBLE FOR MAINTENANCE, AND COMPLETE WITH ALL ACCESSORIES REQUIRED.

9. ACCESSIBILITY:
INSTALL ALL EQUIPMENT AND THEIR APPURTENANCES SUCH AS, BUT NOT LIMITED TO, VALVES, COILS, DRAIN PANS, DRAINS, DAMPERS, CONTROLS, MOTORS, CONTROLLERS, ETC., SO THAT THEY CAN BE SERVICED, RESET, REPLACED OR RECALIBRATED, ETC. INSTALL ALL NECESSARY ACCESS PANELS AND BUILDING ACCESS DOORS, AS BELOW, WHERE REQUIRED TO ACCOMPLISH THIS. IF ANY EQUIPMENT OR COMPONENTS DO NOT FIT WHERE INTENDED, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT IN WRITING, REQUESTING FURTHER GUIDANCE.
PROVIDE BUILDING ACCESS DOORS FOR ALL MECHANICAL EQUIPMENT REQUIRING SERVICE, INCLUDING BUT NOT LIMITED TO, AHU'S, FANS, DAMPERS, DUCT ACCESS PANELS, CONTROLS, PIPING, VALVES, REGULATORS, TRAPS, ETC., INSTALLED ABOVE HARD CEILINGS, BEHIND WALLS, AND BELOW FLOORS, FOR INSTALLATION BY OTHER DIVISIONS OF THE WORK. BUILDING ACCESS DOORS ARE NOT REQUIRED WHERE THE MECHANICAL EQUIPMENT IS INSTALLED ABOVE LAY-IN AND ACCESSIBLE SPLINE CEILINGS. OTHER TYPES OF SPLINE CEILINGS REQUIRE BUILDING ACCESS DOORS. SIZE THE BUILDING ACCESS DOORS FOR THE USE INTENDED, BUT NOT LESS THAN 12 INCHES BY 12 INCHES. WHERE HUMAN ACCESS IS REQUIRED, PROVIDE 24 INCHES BY 24 INCHES, OR LARGER. WHERE BUILDING ACCESS DOORS CANNOT BE INSTALLED FOR STRUCTURAL OR ARCHITECTURAL REASONS, NOTIFY THE ARCHITECT. PRIME COAT BUILDING ACCESS DOORS IN PAINTED AREAS WITH FINISH PAINTING AS SPECIFIED IN OTHER DIVISIONS. IN WET AREAS, TOILET ROOMS, OR AREAS WITH CERAMIC TILE FLOORS OR WALLS, PROVIDE STAINLESS STEEL BUILDING ACCESS DOORS. PROVIDE BUILDING ACCESS DOORS WITH A CONCEALED KEY OPERATED LOCK AND CONCEALED HINGES. ALL LOCKS SHALL BE KEYED ALIKE. PROVIDE BUILDING ACCESS DOORS AS SPECIFIED IN OTHER DIVISIONS OF THE WORK OR PROVIDE MILCOR DOORS, OR EQUIVALENT, SUITABLE FOR THE INSTALLATION INTENDED. PROVIDE FIRE RATED DOORS FOR ALL FIRE RATED WALLS, PARTITIONS, AND CEILINGS.

10. WORK BY OTHER TRADES:
FURNISH ALL SLEEVE FRAMES, BUILDING ACCESS DOORS, PREFABRICATED EQUIPMENT CURBS, ROOF CURBS, ETC. FOR INSTALLATION BY OTHER TRADES.
INSTALL ALL MOTORS AND FURNISH THE STARTING EQUIPMENT AND DISCONNECTS TO THE DIVISION 26000 SUBCONTRACTOR FOR INSTALLATION. CONTROL WIRING, INCLUDING SWITCHES, THERMOSTATS, INTERLOCKS, ETC. SHALL BE FURNISHED BY DIVISION 23000. ENSURE THAT THE ELECTRICAL EQUIPMENT MOUNTED NEAR THE MECHANICAL EQUIPMENT DOES NOT BLOCK ACCESS TO SERVICE AREAS OF THE MECHANICAL EQUIPMENT. DO NOT ALLOW ANY EQUIPMENT TO BE INSTALLED ON THE HVAC EQUIPMENT ENCLOSURES.

11. FIRE STOPPING:
ALL PENETRATIONS OF FLOORS AND OTHER FIRE-RATED ASSEMBLIES SHALL BE FIRE AND SMOKE-STOPPED IN STRICT ACCORDANCE WITH THE APPLICABLE CODES.

12. FOUNDATIONS AND SPECIAL SUPPORTS:
FURNISH AND INSTALL ALL SPECIAL FOUNDATIONS AND SUPPORTS REQUIRED FOR EQUIPMENT INSTALLED UNDER THIS SECTION, UNLESS THEY ARE A PART OF THE BUILDING STRUCTURE AND ARE SHOWN IN OTHER SECTIONS.

13. CLEANING AND PAINTING:
THOROUGHLY CLEAN ALL EQUIPMENT AND REMOVE ALL TRASH, CARTONS, ETC. MAKE ANY NECESSARY CORRECTIONS OR REPAIR/REPLACE ANY DAMAGED MATERIALS OR EQUIPMENT. LEAVE THE ENTIRE SYSTEM IN A THOROUGHLY CLEAN AND ORDERLY MANNER.
ANY FINISHED SURFACES THAT HAVE BEEN SCRATCHED OR DISCOLORED SHALL BE TOUCHED-UP OR REPAINTED BREAK TO BREAK WITH PAINT TO MATCH THE ORIGINAL COLOR. TOUCH UP PAINTED SURFACES OR REPAINT THE ENTIRE PAINTED SURFACE IF TOUCH UP IS UNACCEPTABLE. SEE ARCHITECTURAL PAINTING SPECIFICATIONS.
ALL METAL ITEMS SUBJECT TO RUSTING, INSIDE OR EXPOSED TO WEATHER SHALL BE GIVEN ONE COAT OF PROPER TYPE RUST PREVENTATIVE PRIMER AS SOON AS INSTALLED. APPLY TWO FINISH COATS WITH COLOR TO BE SELECTED BY THE ARCHITECT.
FOR ALL INTERIOR OR EXTERIOR STRUCTURAL GALVANIZED STEEL, COLD GALVANIZE ALL EXPOSED METAL CUT ENDS, HOLES, WELDS, SCRATCHES, ETC., OR HOT DIP GALVANIZE THE ENTIRE STRUCTURE OR FRAME AFTER FABRICATION AND MOUNTING HOLES ARE CUT.
UPON COMPLETION OF THE INSTALLATION, BUT NOT BEFORE, AND BEFORE ACCEPTANCE, THOROUGHLY CLEAN ALL EXPOSED EQUIPMENT, PIPING, DUCTWORK, INSULATION JACKETS, ETC.,



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SALEM COURTHOUSE JURY ROOM
RENOVATION
MECHANICAL DEMOLITION PLAN - PIPING

2 E CALHOUN ST
SALEM, VA 24163

DRAWN BY JB
DESIGNED BY JNB
CHECKED BY JNB
DATE 08-30-2023
SCALE As indicated
REVISIONS



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M2.1

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M2.1

MECHANICAL DEMOLITION PLAN - PIPING

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

DEMOLITION GENERAL NOTES:

1. CONTRACTOR TO VERIFY LOCATION AND SIZE OF WATER PIPING AND CONDENSATE DRAIN PRIOR TO BIDDING.

DEMOLITION KEYED NOTES:

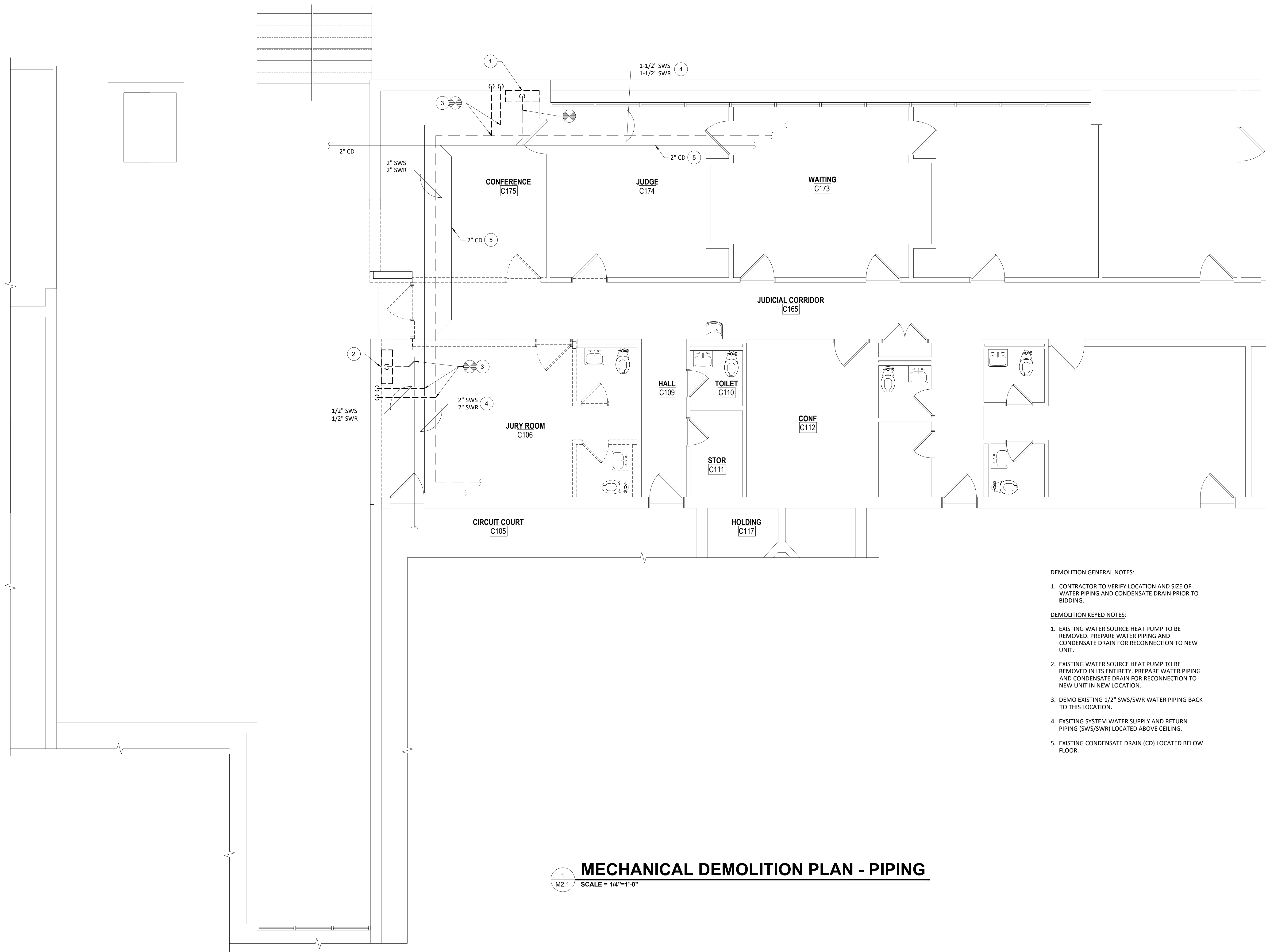
1. EXISTING WATER SOURCE HEAT PUMP TO BE REMOVED. PREPARE WATER PIPING AND CONDENSATE DRAIN FOR RECONNECTION TO NEW UNIT.

2. EXISTING WATER SOURCE HEAT PUMP TO BE REMOVED IN ITS ENTIRETY. PREPARE WATER PIPING AND CONDENSATE DRAIN FOR RECONNECTION TO NEW UNIT IN NEW LOCATION.

3. DEMO EXISTING 1/2" SWS/SWR WATER PIPING BACK TO THIS LOCATION.

4. EXSITING SYSTEM WATER SUPPLY AND RETURN PIPING (SWS/SWR) LOCATED ABOVE CEILING.

5. EXISTING CONDENSATE DRAIN (CD) LOCATED BELOW FLOOR.





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**SALEM COURTHOUSE JURY ROOM
RENOVATION
MECHANICAL DEMOLITION PLAN - DUCTWORK**

2 E CALHOUN ST
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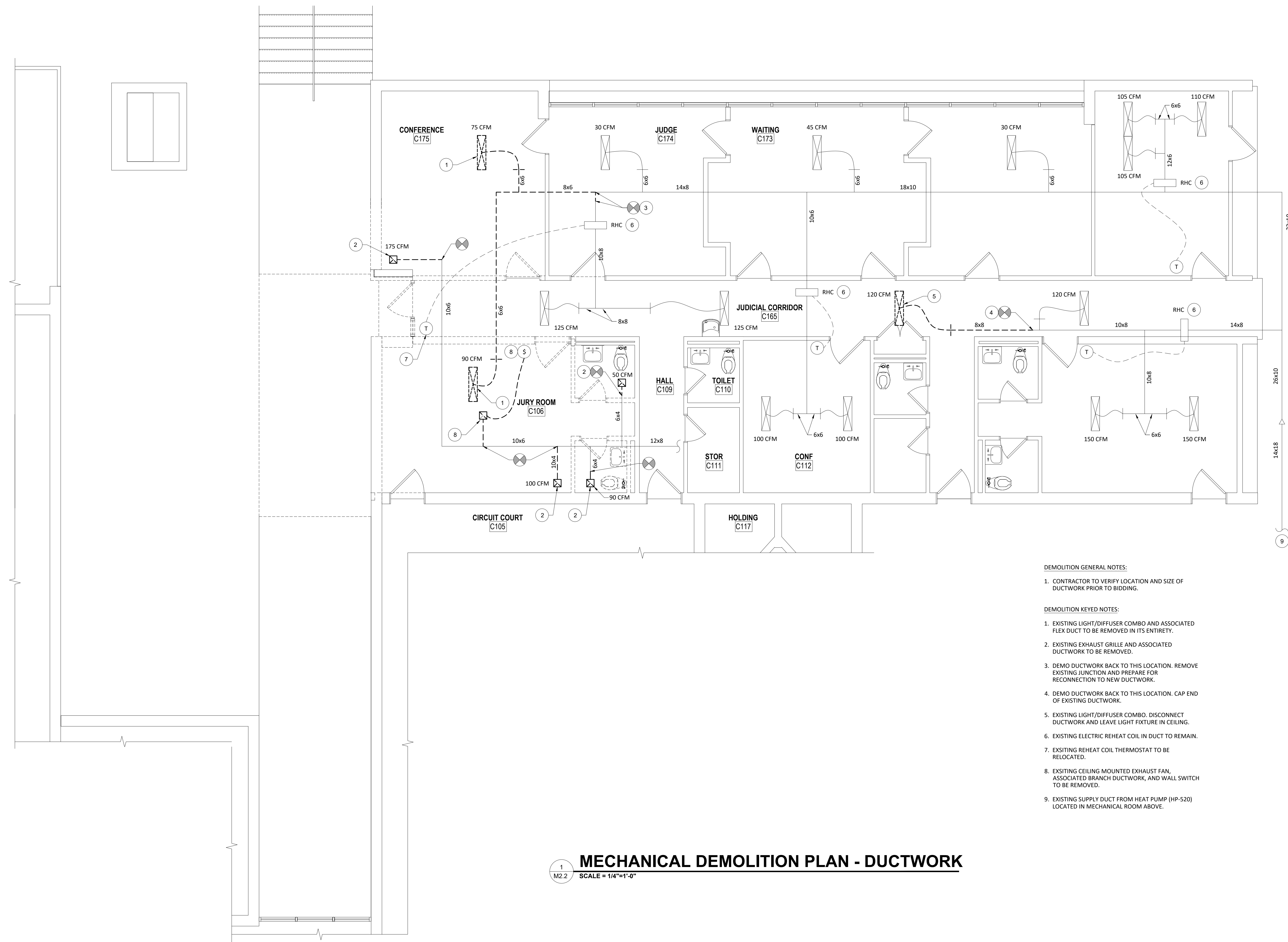
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M2.2

PROJECT NO 03220052.00



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M2.2

MECHANICAL DEMOLITION PLAN - DUCTWORK

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

DEMOLITION GENERAL NOTES:

1. CONTRACTOR TO VERIFY LOCATION AND SIZE OF DUCTWORK PRIOR TO BIDDING.

DEMOLITION KEYED NOTES:

1. EXISTING LIGHT/DIFFUSER COMBO AND ASSOCIATED FLEX DUCT TO BE REMOVED IN ITS ENTIRETY.
2. EXISTING EXHAUST GRILLE AND ASSOCIATED DUCTWORK TO BE REMOVED.
3. DEMO DUCTWORK BACK TO THIS LOCATION. REMOVE EXISTING JUNCTION AND PREPARE FOR RECONNECTION TO NEW DUCTWORK.
4. DEMO DUCTWORK BACK TO THIS LOCATION. CAP END OF EXISTING DUCTWORK.
5. EXISTING LIGHT/DIFFUSER COMBO. DISCONNECT DUCTWORK AND LEAVE LIGHT FIXTURE IN CEILING.
6. EXISTING ELECTRIC REHEAT COIL IN DUCT TO REMAIN.
7. EXISTING REHEAT COIL THERMOSTAT TO BE RELOCATED.
8. EXISTING CEILING MOUNTED EXHAUST FAN, ASSOCIATED BRANCH DUCTWORK, AND WALL SWITCH TO BE REMOVED.
9. EXISTING SUPPLY DUCT FROM HEAT PUMP (HP-520) LOCATED IN MECHANICAL ROOM ABOVE.



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SALEM COURTHOUSE JURY ROOM

RENOVATION
MECHANICAL NEW WORK PLAN - PIPING

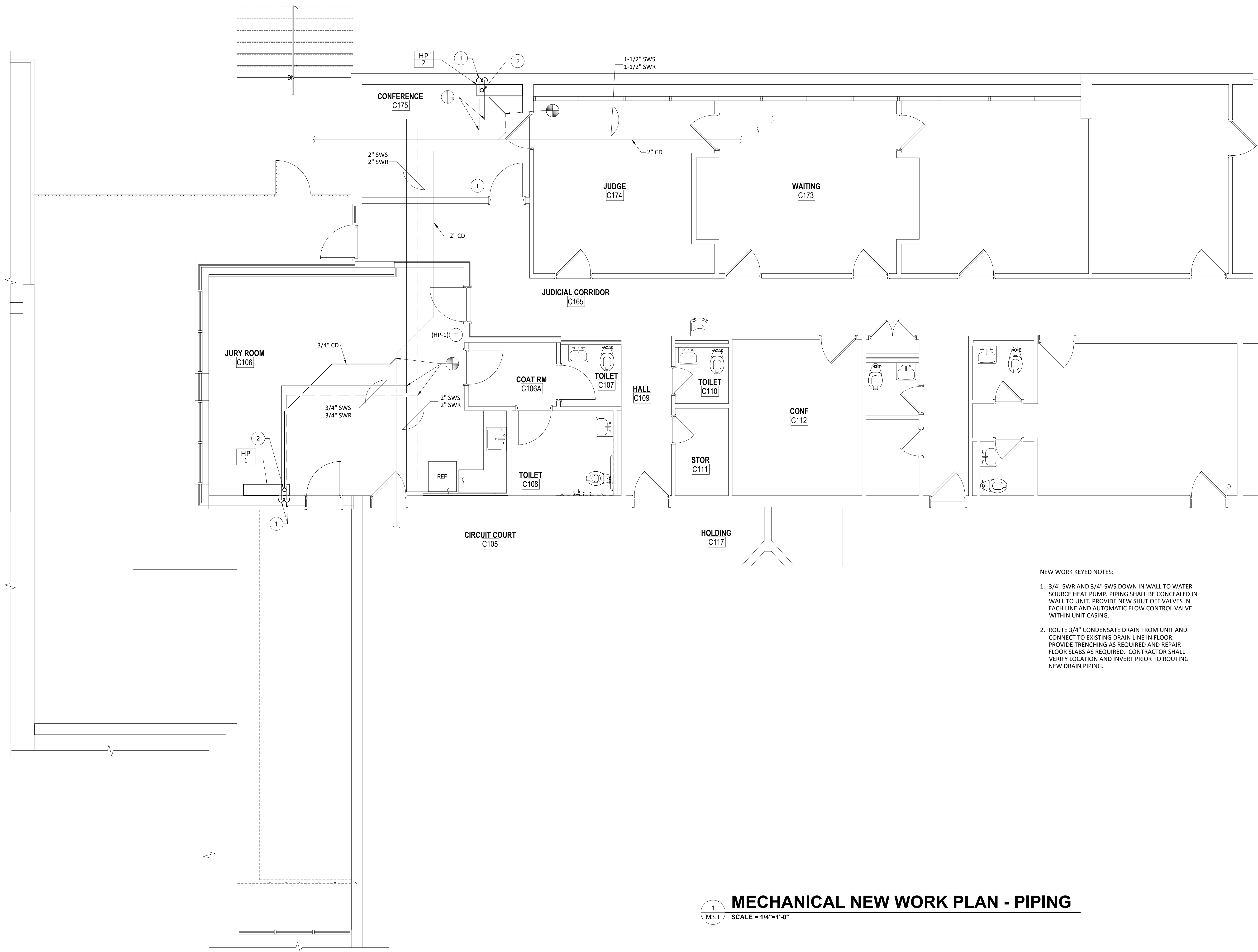
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M3.1



- NEW WORK KEYED NOTES:
- 3/4" SWR AND 3/4" SWS DOWN IN WALL TO WATER SOURCE HEAT PUMP. PIPING SHALL BE CONCEALED IN WALL TO UNIT. PROVIDE NEW SHUT OFF VALVES IN EACH LINE AND AUTOMATIC FLOW CONTROL VALVE WITHIN UNIT CASING.
 - ROUTE 3/4" CONDENSATE DRAIN FROM UNIT AND CONNECT TO EXISTING DRAIN LINE IN FLOOR. PROVIDE TRENCHING AS REQUIRED AND REPAIR FLOOR SLABS AS REQUIRED. CONTRACTOR SHALL VERIFY LOCATION AND INVERT PRIOR TO ROUTING NEW DRAIN PIPING.

MECHANICAL NEW WORK PLAN - PIPING
SCALE = 1/4"=1'-0"



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SALEM COURTHOUSE JURY ROOM

RENOVATION
MECHANICAL NEW WORK PLAN - DUCTWORK

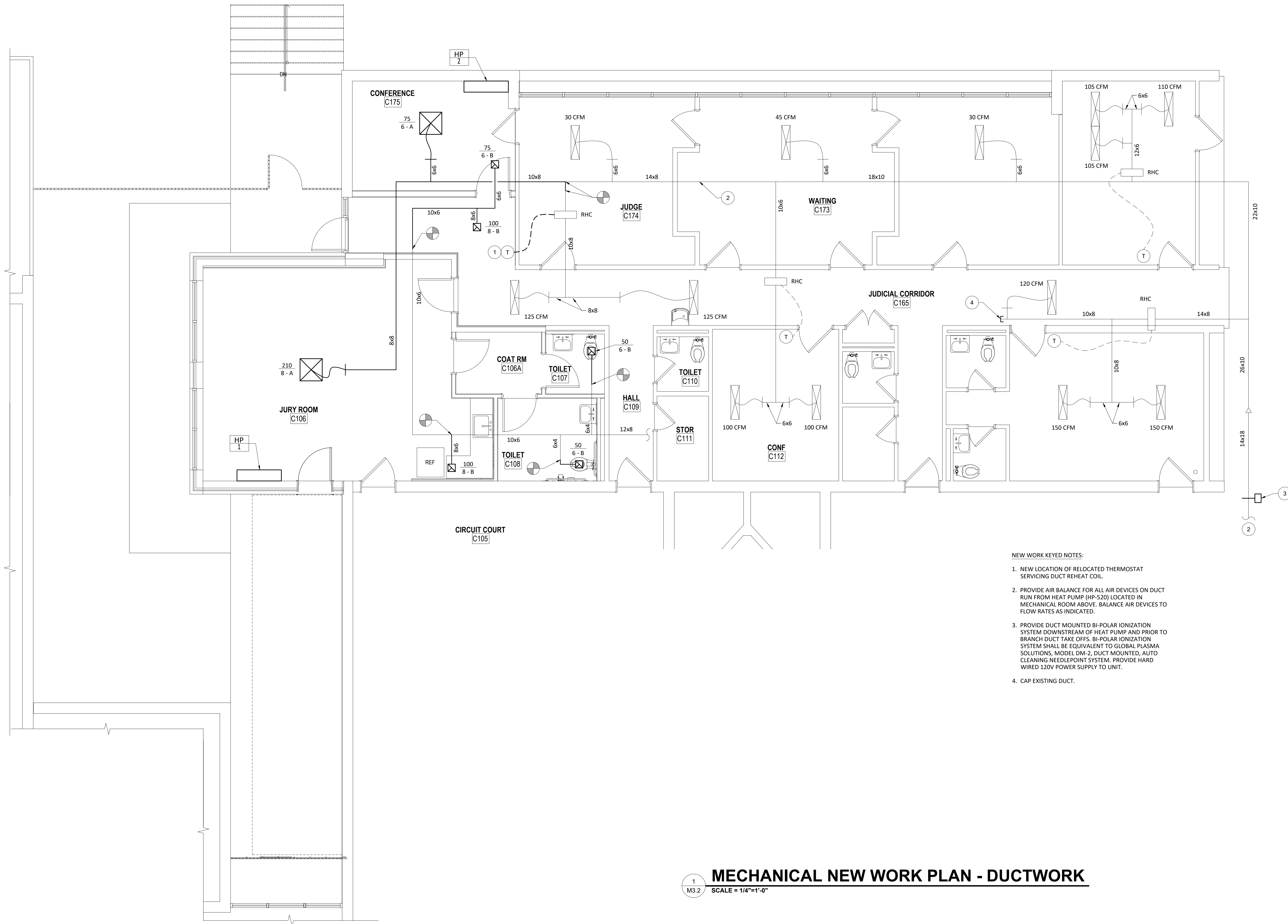
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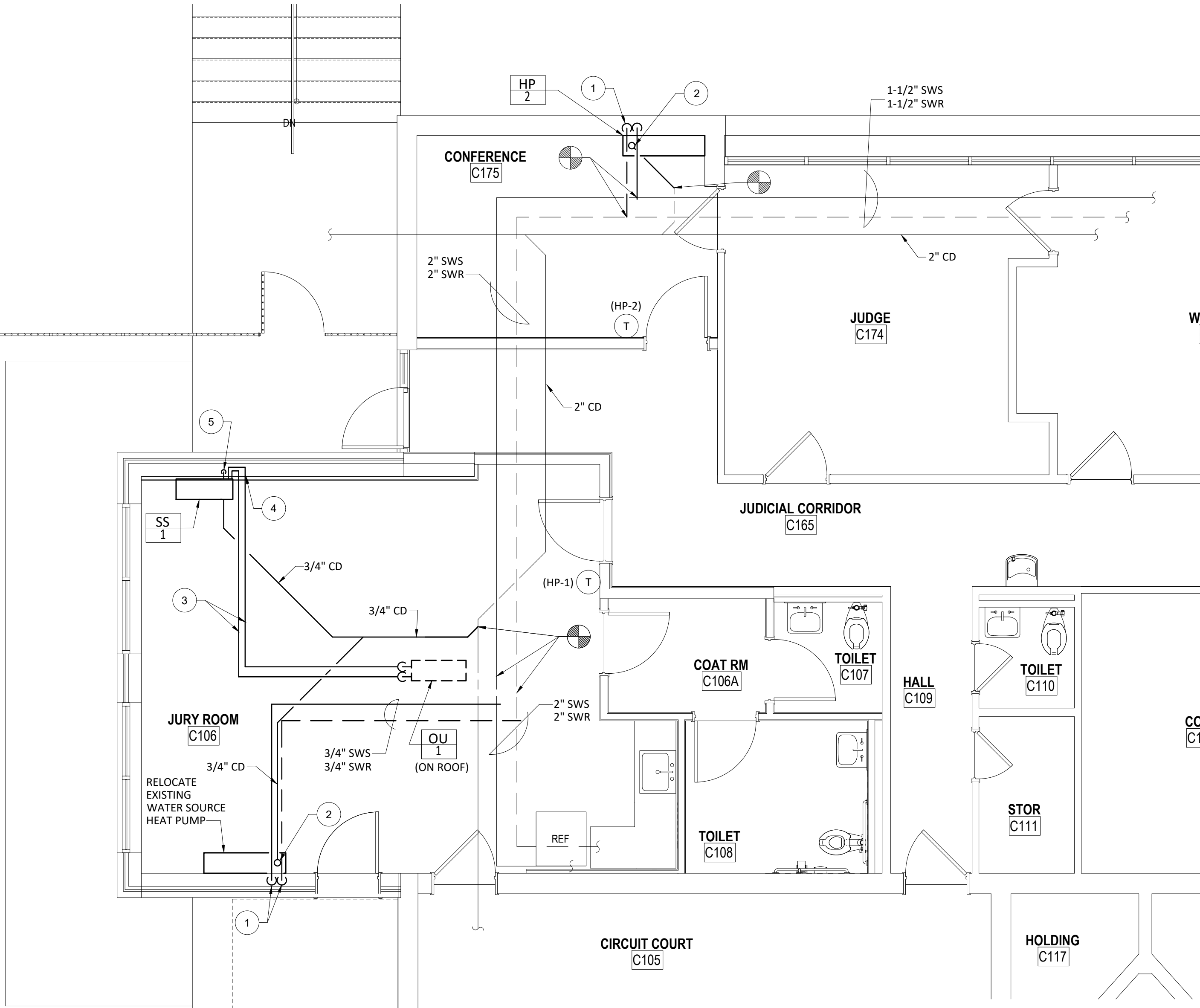


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M3.2



1
M3.2
MECHANICAL NEW WORK PLAN - DUCTWORK
SCALE = 1/4"=1'-0"



MECHANICAL DEDUCT ALTERNATE PLAN
SCALE = 1/4"=1'-0"

GENERAL NOTES:

- WORK ON THIS PLAN SHALL ONLY BE PROVIDED IF THE DEDUCT ALTERNATE IS ACCEPTED. THE WORK ASSOCIATED WITH THE ALTERNATE SHALL INCLUDE RELOCATING THE EXISTING WATER SOURCE HEAT PUMP AND ALSO PROVIDING A NEW WALL MOUNTED DUCTLESS SPLIT SYSTEM. ALL WORK SHOWN ON M3.2 SHALL BE INCLUDED WITH THE ALTERNATE EXCEPT FOR PROVIDING HP-1.

KEYED NOTES:

- 3/4" SWR AND 3/4" SWS DOWN IN WALL TO WATER SOURCE HEAT PUMP. PIPING SHALL BE CONCEALED IN WALL TO UNIT.
- ROUTE 3/4" CONDENSATE DRAIN FROM UNIT AND CONNECT TO EXISTING DRAIN LINE IN FLOOR. PROVIDE TRENCHING AS REQUIRED AND REPAIR FLOOR SLABS AS REQUIRED.
- REFRIGERANT LINES FROM OUTDOOR UNIT (OU-1) ON ROOF TO INDOOR UNIT (SS-1). REFRIGERANT PIPING SHALL BE SIZED, ROUTED, INSULATED, AND INSTALLED AS PER MANUFACTURER RECOMMENDATIONS.
- CONCEAL REFRIGERANT PIPING FROM INDOOR UNIT UP TO ABOVE CEILING IN WALL.
- 5/8" CONDENSATE DRAIN FROM SS-1 DOWN IN WALL. CONNECT TO 3/4" DRAIN LINE BELOW FLOOR.

DUCTLESS SPLIT SYSTEM SCHEDULE (INDOOR UNIT)

| MARK | COOLING CAPACITY AT 95°F (MBH) | HEATING CAPACITY AT 17°F (MBH) | UNIT WEIGHT (LBS) | BASIS OF DESIGN (MANUFACTURER,MODEL#) |
|------|--------------------------------|--------------------------------|-------------------|---------------------------------------|
| SS-1 | 12.0 | 7.6 | 30 | mitsubishi, MSZ-JP12WA |

NOTES:

- INDOOR UNIT SHALL BE POWERED BY ASSOCIATED OUTDOOR UNIT.
- PROVIDE WITH PROGRAMMABLE WIRELESS REMOTE/CONTROLLER.
- PROVIDE WATER LEVEL MONITORING DEVICE IN DRAIN PAN WITH AUDIBLE ALARM. SHALL BE IN COMPLIANCE WITH VMC, SECTION 307.2.3.1.
- PROVIDE WITH CONDENSATE REMOVAL PUMP.
- MOUNT INDOOR UNIT AT 18" BELOW CEILING. COORDINATE UNIT LOCATION WITH WALL MOUNTED TV.

DUCTLESS SPLIT SYSTEM SCHEDULE (OUTDOOR UNIT)

| MARK | COOLING | | HEATING | | ELECTRICAL | | | UNIT WEIGHT (LBS) | BASIS OF DESIGN (MANUFACTURER,MODEL#) |
|------|----------------------------|------|----------------------------|------|--------------|-----|------|-------------------|---------------------------------------|
| | GROSS TOTAL CAPACITY (MBH) | SEER | GROSS TOTAL CAPACITY (MBH) | HSPF | V / PH / HZ | MCA | MOCP | | |
| OU-1 | 12.0 | 17.0 | 7.6 | 9.0 | 115 / 1 / 60 | 14 | 15 | 75 | mitsubishi, MUZ-JP12WA |

NOTES:

- MATCH WITH ASSOCIATED INDOOR UNIT(S).
- PROVIDE WITH CONDENSER MOUNTING EQUIPMENT RAILS FOR ROOF INSTALLATION.



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SALEM COURTHOUSE JURY ROOM
RENOVATION
PLUMBING LEGEND, SCHEDULES, AND NOTES
2 E CALHOUN ST
SALEM, VA 24153

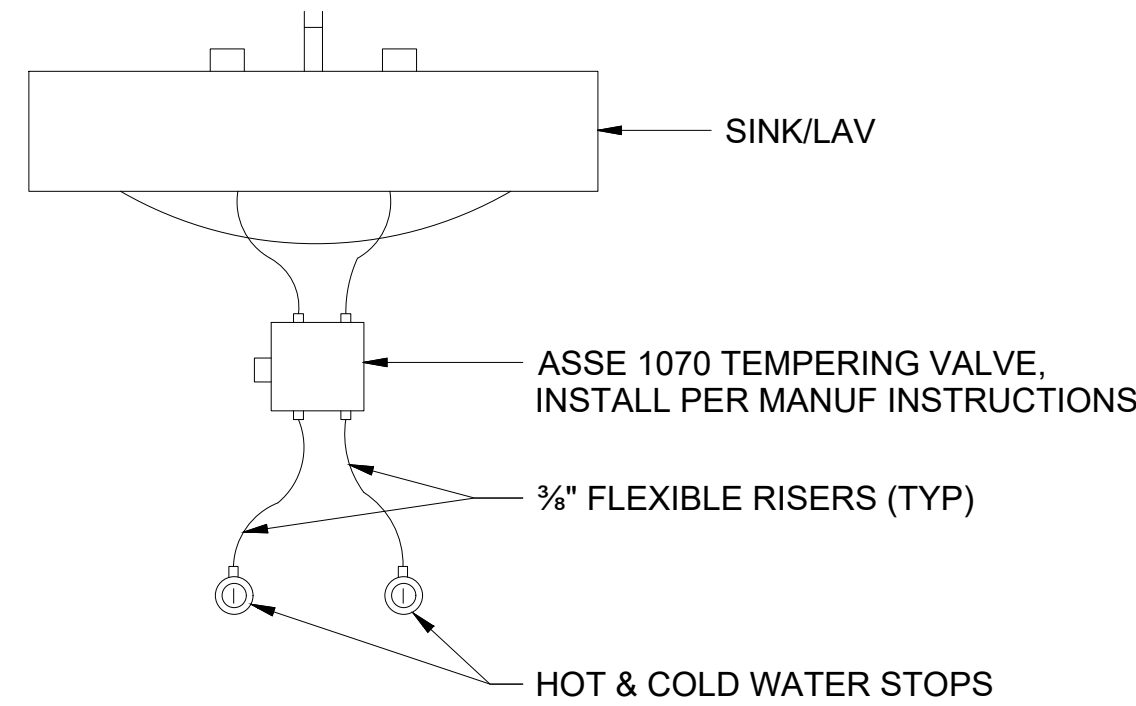
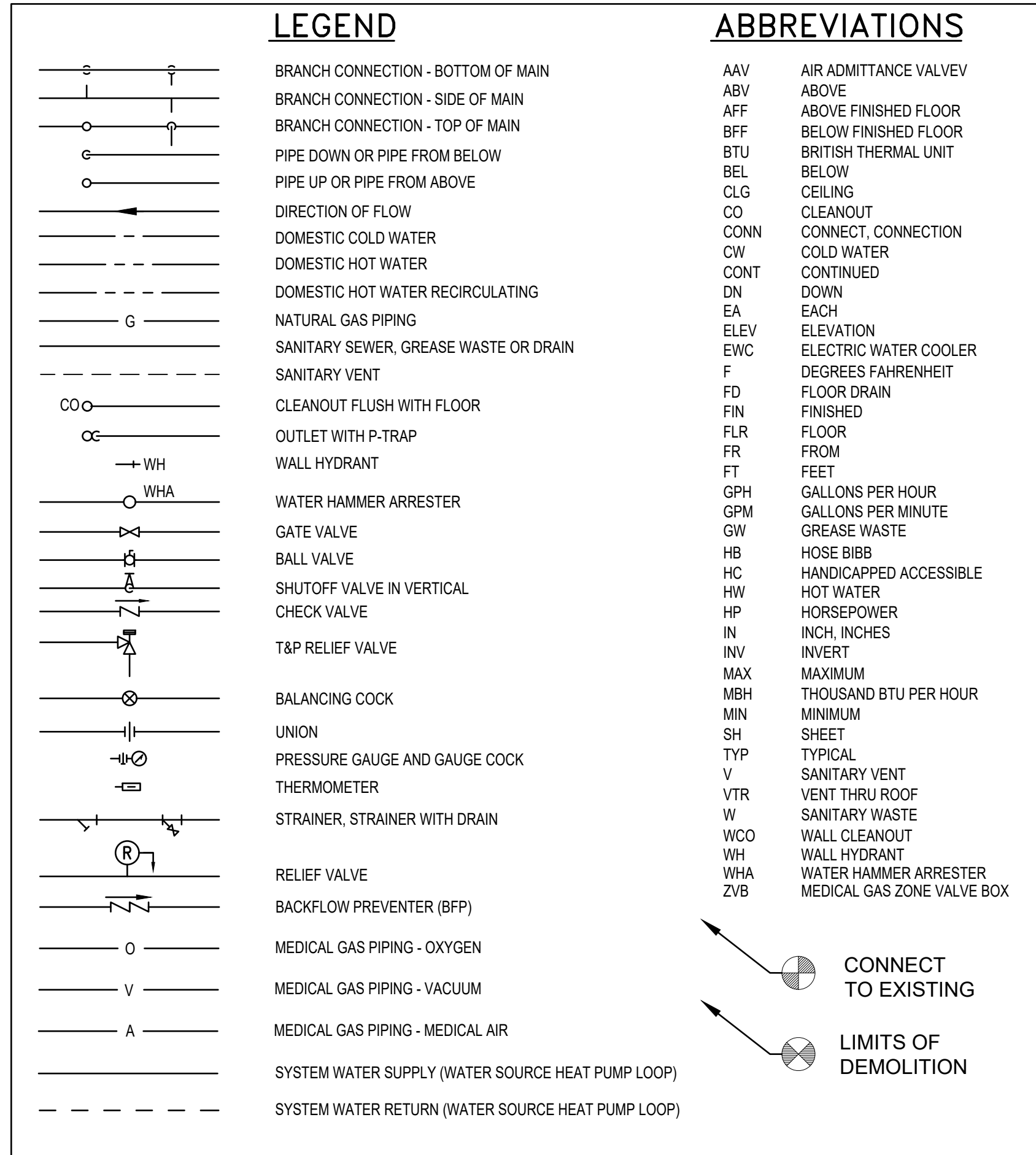
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PLUMBING FIXTURE SCHEDULE:

| | |
|------|--|
| WC-1 | WATER CLOSET: AMERICAN STANDARD "MADERA FLOWISE ELONGATED FLUSHOMETER TOILET" MODEL #2857.128, VITREOUS CHINA ELONGATED SIPHON JET BOWL, FLOOR MOUNTED, WHITE EXTRA HEAVY DUTY SOLID PLASTIC OPEN FRONT SEAT WITHOUT COVER, TOP SPUD, STAINLESS STEEL CHECK HINGE, ADA COMPLIANT. FLUSH VALVE SHALL BE MOEN 8310M128 SERIES, 1.28 GPF CHROME PISTON FLUSH VALVE WITH ADA COMPLIANT HANDLE. |
| L-1 | AMERICAN STANDARD DECLYN WALL MOUNTED SINK, MODEL #321026.02. PROVIDE AMERICAN STANDARD RELIANT 3 FAUCET MODEL #7385000.002, 3 HOLE CENTERSET MOUNT FAUCET. PROVIDE WALL CARRIER AS REQUIRED TO SUPPORT LAVATORY. PROVIDE ADA COMPLIANT UNDER SINK PIPE PROTECTORS ON P-TRAP AND SUPPLY WATER PIPING, SHALL BE UNIFORM, ONE PIECE DESIGN WITH SMOOTH PVC CONSTRUCTION. |
| S-1 | ELKAY, LUSTERTONE STAINLESS STEEL, 22"X19-1/2"X7-5/8", SINGLE BOWL, TOP MOUNT, MODEL #LR2219PD. PROVIDE ELKAY DECK MOUNTED FAUCET WITH LEVER HANDLE, MODEL #LK1000CR. PROVIDE WATER SUPPLY STOPS IN WALL BELOW SINK. |

GENERAL PLUMBING NOTES:

- ALL WORK SHALL BE IN ACCORDANCE WITH THE 2018 VIRGINIA UNIFORM STATEWIDE BUILDING CODE, ALL FEDERAL, STATE, AND CITY CODES, ORDINANCES, AND STANDARDS.
- IT IS THE INTENT OF THESE DOCUMENTS THAT THE CONTRACTOR PROVIDE ALL LABOR, MATERIAL, EQUIPMENT AND TOOLS FOR THE COMPLETE INSTALLATION OF ALL WORK SHOWN ON THE PLANS AND/OR DESCRIBED HEREIN, INCLUDING ALL DEVICES AND CONTROLS REQUIRED TO PROVIDE A COMPLETE AND FUNCTIONING SYSTEM.
- ALL WORK PROVIDED UNDER THIS CONTRACT INCLUDING ALL EQUIPMENT, MATERIALS, AND LABOR SHALL BE PROVIDED WITH A 1 YEAR WARRANTY.
- CONTRACTOR SHALL PROVIDE SHOP DRAWINGS FOR ALL EQUIPMENT FOR APPROVAL PRIOR TO INSTALLATION.
- THESE DRAWINGS ARE DIAGRAMMATIC IN NATURE. NOT ALL FITTINGS, OFFSETS, VENTS, OR DRAINS ARE SHOWN. THE CONTRACTOR SHALL INCLUDE ALL OFFSETS, VENTS, AND DRAINS AS REQUIRED FOR A FULLY FUNCTIONING SYSTEM.
- SLOPES AND INVERT ELEVATIONS OF EXISTING SEWER SHALL BE ESTABLISHED AND VERIFIED BY CONTRACTOR BEFORE ANY PIPING IS INSTALLED IN ORDER THAT PROPER SLOPE WILL BE MAINTAINED AND NECESSARY INVERT ELEVATIONS OBTAINED.
- ALL PIPES SHALL BE COORDINATED WITH OTHER NEW AND EXISTING DUCTS, PIPES, LIGHTS, STRUCTURAL SYSTEM, CEILING SUPPORTS AND FRAMING BEFORE INSTALLATION. MINOR PIPE OFFSETS SHALL BE PROVIDED AS REQUIRED. MEASUREMENTS FOR VERTICAL CLEARANCES SHALL BE TAKEN AT THE JOB SITE BEFORE INSTALLATION OF ANY PIPING.
- PIPING SHALL NOT BE INSTALLED ABOVE ELECTRICAL PANELS. COORDINATE INSTALLATION OF PIPES WITH ELECTRICAL PANELS WHEN SHOWN NEAR PANELS OR OVER ELECTRICAL ROOMS.
- ALL PIPING SHALL BE INSTALLED ABOVE THE CEILING UNLESS INDICATED OTHERWISE. ALL WATER PIPING AND P-TRAPS SHALL BE INSTALLED WITHIN THE BUILDINGS INSULATION ENVELOPE OR BE PROVIDED WITH A FREEZE PROTECTION SYSTEM.
- PROVIDE SUPPORTS TO RIGIDLY ATTACH ALL EQUIPMENT, APPURTENANCES AND PIPE AS REQUIRED FOR SUPPORT. PRIOR TO INSTALLATION OF HANGERS AND INSERTS, THE CONTRACTOR SHALL COORDINATE LOCATIONS AND REQUIREMENTS TO MINIMIZE CONFLICTS WITH OTHER BUILDING SYSTEMS. INSTALLATION OF PIPE HANGERS AND SUPPORTS SHALL BE IN STRICT ACCORDANCE WITH MANUFACTURERS STANDARDIZATION SOCIETY (MSS) STANDARDS SP-58, 69 AND 89.
- ACCESS DOORS SHALL BE PROVIDED FOR ALL CONCEALED VALVES, CONTROLS, AND ANY OTHER EQUIPMENT OR MATERIALS REQUIRING INSPECTION OR MAINTENANCE. ACCESS DOORS SHALL BE FURNISHED FOR FLOORS, WALLS AND CEILINGS, OF ADEQUATE SIZE SO THAT CONCEALED ITEMS WILL BE READILY ACCESSIBLE FOR SERVICING OR FOR REMOVAL AND REPLACEMENT IF NECESSARY.
- INSTALL PIPE ESCUTCHEONS ON EACH PIPE PENETRATION THRU FLOORS, WALLS PARTITIONS, AND CEILINGS WHERE PENETRATION IS EXPOSED TO VIEW AND ON EXTERIOR OF BUILDING. SECURE ESCUTCHEON TO PIPE OR INSULATION SO ESCUTCHEON COVERS PENETRATION HOLE, AND IS FLUSH WITH ADJOINING SURFACE. PROVIDE SHEET STEEL ESCUTCHEONS, SOLID OR SPLIT HINGED. FOR AREAS WHERE WATER AND CONDENSATION CAN BE EXPECTED TO ACCUMULATE, PROVIDE CAST BRASS OR SHEET BRASS ESCUTCHEONS, SOLID OR SPLIT HINGED.
- WATER HAMMER ARRESTORS SHALL BE EQUIVALENT TO ZURN MODEL 1260XL AND SHALL BE SIZED AND PLACED WITHIN THE SYSTEM AS RECOMMENDED BY THE MANUFACTURER.
- TRENCHING AS REQUIRED FOR UNDERGROUND PIPING SHALL BE GRADED TO UNIFORM PITCH AND SHALL BE NO WIDER THAN NECESSARY FOR PIPING INSTALLATION. CLEAN BACKFILL SHALL BE USED AND THOROUGHLY TAMPED IN LAYERS NOT EXCEEDING 6 INCHES TO A MINIMUM DEPTH OF 1 FOOT ABOVE PIPE. COMPACTED BACKFILL SHALL BE USED FOR THE ENTIRE DEPTH OF EXCAVATION UNDER SLAB ON GRADE CONSTRUCTION.
- PLUMBING FIXTURES, SHALL BE PROVIDED AND INSTALLED AS PER THE PLUMBING FIXTURE SCHEDULE. ALL EXPOSED FIXTURE SUPPLIES AND WASTE LINES SHALL BE CHROME PLATED. NO EXPOSED COPPER, PVC, AND/OR CAST IRON IS ALLOWED.



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SALEM COURTHOUSE JURY ROOM

RENOVATION
PLUMBING SPECIFICATIONS

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DESIGNED BY JNB
CHECKED BY JNB
DATE 08-30-2023
SCALE As indicated
REVISIONS



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Project #22065

P1.2

PLUMBING SPECIFICATIONS:

1. GENERAL PROVISIONS:

- 1.A. ALL WORK SHALL BE IN ACCORDANCE WITH THE 2018 VIRGINIA UNIFORM STATEWIDE BUILDING CODE, ALL FEDERAL, STATE, AND CITY CODES, ORDINANCES, AND STANDARDS.
- 1.B. THE PLANS ARE DIAGRAMMATIC IN NATURE AND BASED ON ONE MANUFACTURER'S EQUIPMENT. THEY ARE NOT INTENDED TO SHOW EVERY ITEM IN ITS EXACT LOCATION, THE EXACT DIMENSIONS, OR ALL THE DETAILS OF THE EQUIPMENT. VERIFY THE ACTUAL DIMENSIONS OF THE EQUIPMENT PROPOSED TO BE USED. INSTALLATION SHALL BE WITHIN THE LIMITATIONS IMPOSED BY THE ARCHITECTURAL, STRUCTURAL, HVAC, ELECTRICAL, AND PLUMBING REQUIREMENTS WITH ADEQUATE SPACE FOR MAINTENANCE.
- 1.C. GUARANTEE: ALL MATERIALS AND WORKMANSHIP SHALL BE GUARANTEED TO BE FREE FROM DEFECTS FOR A PERIOD OF ONE (1) YEAR FROM DATE OF ACCEPTANCE AND CONTRACTOR SHALL MAKE GOOD, WITHOUT ADDITIONAL COST TO THE OWNER, ANY DEFECTS WHICH MAY APPEAR WITHIN THAT PERIOD. MANUFACTURER'S WARRANTIES EXTENDING BEYOND ONE YEAR SHALL BE PROCESSED AND TURNED OVER TO THE OWNER.
- 1.D. MAJOR ITEMS ARE SHOWN ON THE PLANS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL INCIDENTAL ITEMS REQUIRED TO PROVIDE A COMPLETE AND FUNCTIONAL SYSTEM.
- 1.E. A TRADE NAMES AND CATALOG NUMBERS SHALL BE INTERPRETED AS ESTABLISHING A GENERAL DESIGN AND STANDARD OF QUALITY AND SHALL NOT BE CONSTRUED AS LIMITING COMPETITION. UNLESS STATED OTHERWISE, THE CONTRACTOR MAY USE ANY ARTICLE WHICH, IN HIS JUDGEMENT, AND WITH WRITTEN COMMENT FROM THE ARCHITECT/ENGINEER INDICATING NO OBJECTION, IS EQUAL OR SUPERIOR TO THAT SPECIFIED. DRAWINGS SHOWING CHANGES OR REVISIONS REQUIRED BY THE SUBSTITUTION FOR SPECIFIED ITEMS SHALL BE SUBMITTED WITH THE SHOP DRAWING DATA, AND THE COSTS OF ALL SUCH CHANGES SHALL BE BORNE BY THE CONTRACTOR.
- 1.F. SIMILAR ITEMS SHALL BE PROVIDED BY A SINGLE MANUFACTURER.
- 1.G. ALL REQUIRED WALL OR FLOOR OPENINGS SHALL BE COORDINATED WITH THE GENERAL CONTRACTOR AND/OR OTHER RELEVANT TRADES.
- 1.H. ALL PIPING SHALL BE INSTALLED ABOVE THE CEILING UNLESS INDICATED OTHERWISE. ALL WATER PIPING AND P-TRAPS SHALL BE INSTALLED WITHIN THE BUILDINGS INSULATION ENVELOPE OR BE PROVIDED WITH A FREEZE PROTECTION SYSTEM.
- 1.I. PROVIDE SUPPORTS TO RIGIDLY ATTACH ALL EQUIPMENT, APPURTENANCES AND PIPE AS REQUIRED FOR SUPPORT. PRIOR TO INSTALLATION OF HANGERS AND INSERTS, THE CONTRACTOR SHALL COORDINATE LOCATIONS AND REQUIREMENTS TO MINIMIZE CONFLICTS WITH OTHER BUILDING SYSTEMS. INSTALLATION OF PIPE HANGERS AND SUPPORTS SHALL BE IN STRICT ACCORDANCE WITH MANUFACTURERS STANDARDIZATION SOCIETY (MSS) STANDARDS SP-58, 69 AND 89.
- 1.J. THE CONTRACTOR SHALL MAKE FINAL CONNECTIONS TO ALL EQUIPMENT INDICATED TO BE FURNISHED BY OTHERS.
2. SUBMITTAL AND SHOP DRAWINGS:
- 2.A. SUBMIT MANUFACTURER'S CERTIFIED DATA RELATIVE TO ALL EQUIPMENT, PIPING, CONTROLS, ETC. REQUIRED FOR THE INSTALLATION OF THE PLUMBING AND FIRE PROTECTION SYSTEMS. SUBMIT FOR REVIEW ALL NECESSARY ENGINEERING, PRODUCT AND INSTALLATION DATA, SHOP DRAWINGS, SAMPLES ETC. FOR ALL EQUIPMENT, MATERIAL, AND SYSTEMS TO ASCERTAIN COMPLIANCE WITH THE TECHNICAL REQUIREMENTS OF THE CONTRACT DOCUMENTS.
- 2.B. SUBMIT A DIGITAL PDF OF ALL NECESSARY DATA, CUTS, MANUFACTURER'S SELECTIONS, CATALOGS, BULLETINS, INSTALLATION INSTRUCTIONS, DRAWINGS, DIAGRAMS, CURVES, ETC. CLEARLY INDICATE ON THE SUBMITTED DATA, THE MANUFACTURER'S NAME, PRODUCT NUMBER(S), OPTIONS, EQUIPMENT CAPACITY, DIMENSIONAL DATA, WEIGHTS, AND OTHER APPLICABLE TECHNICAL DATA FOR THE PROJECT.
- 2.C. TRADE NAMES, MANUFACTURERS, AND CATALOGUE NUMBERS ARE MENTIONED HEREIN AND ON THE DRAWINGS SOLELY IN ORDER TO ESTABLISH A STANDARD FOR THE TYPE, GENERAL DESIGN, AND QUALITY OF PRODUCT REQUIRED. OTHER PRODUCTS SIMILAR IN DESIGN OF EQUIVALENT QUALITY CAPABLE OF FITTING WITHIN THE SPACES ALLOCATED AND COMPLYING WITH THE DRAWINGS AND SPECIFICATIONS WILL BE CONSIDERED AFTER THE CONTRACT IS LET

UNLESS "PRIOR APPROVAL" REQUIREMENTS ARE SET FORTH IN THESE DOCUMENTS.

- 2.D. REVIEW OF SUBMITTALS AND SHOP DRAWINGS DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY FOR FITTING THE EQUIPMENT IN THE SPACE ALLOTTED WITH SPACE FOR ALL CONNECTIONS AND SERVICING AND FOR THE COORDINATION OF THE WORK WITH WORK OF OTHER TRADES.
- 2.E. THE CONTRACTOR SHALL REVIEW ALL SUBMITTALS AND SHOP DRAWINGS AND INDICATE BY STAMP OR LETTER THAT HE HAS REVIEWED THEM, BEFORE FORWARDING THEM TO THE ARCHITECT AND/OR ENGINEER. SUBMITTALS AND DRAWINGS WILL BE RETURNED AFTER REVIEW INDICATING WHETHER EXCEPTIONS ARE TAKEN, THE SUBMITTAL RETURNED WITH CORRECTIONS, OR IS COMPLETELY REJECTED. RESUBMISSION OF REVISED SUBMITTALS AND SHOP DRAWINGS, IF REQUIRED, SHALL BE DONE BEFORE INSTALLATION AND CONSTRUCTION IS BEGUN.
- 2.F. CORRECTIONS OR COMMENTS MADE ON THE SUBMITTALS AND DRAWINGS DURING THIS REVIEW DOES NOT RELIEVE THE CONTRACTOR FROM COMPLIANCE WITH THE REQUIREMENTS OF THE CONTRACT DOCUMENTS. THIS REVIEW IS FOR GENERAL CONFORMANCE WITH THE DESIGN CONCEPT OF THE PROJECT AND GENERAL COMPLIANCE WITH THE INFORMATION GIVEN IN THE CONTRACT DOCUMENTS. THE CONTRACTOR IS RESPONSIBLE FOR CONFIRMING AND CORRELATING ALL QUANTITIES AND DIMENSIONS, FABRICATION PROCESSES, TECHNIQUES OF CONSTRUCTION, COORDINATING THE WORK WITH THAT OF ALL OTHER TRADES, AND PERFORMING WORK IN A SAFE AND SATISFACTORY MANNER. REVIEW OF THE SUBMITTALS SHALL NOT PERMIT ANY DEVIATION FROM PLANS AND SPECIFICATIONS.
3. AS-BUILT DRAWINGS:
- 3.A. MAINTAIN DAILY UPDATED DRAWINGS SHOWING DEVIATIONS FROM CONSTRUCTION DOCUMENTS. AT THE END OF THE PROJECT, PROFESSIONALLY PREPARE AS-BUILT DRAWINGS AND SUBMIT DRAWINGS TO THE ARCHITECT/ENGINEER.
4. OPERATION AND MAINTENANCE MANUALS:
- 4.A. UPON COMPLETION OF THE PROJECT, SUBMIT ALL OPERATION AND MAINTENANCE MANUALS, WARRANTIES, SPARE PARTS LIST, AS-BUILT DRAWINGS, TEST AND BALANCE REPORTS, AND LETTER OF GUARANTEE ALL BOUND IN THREE RING BINDERS, CLEARLY SHOWING WHICH EQUIPMENT WAS SUPPLIED TO THE JOB.
5. PIPING SPECIALTIES:
- 5.A. ACCESS DOORS: ACCESS DOORS SHALL BE PROVIDED FOR ALL CONCEALED VALVES, CONTROLS, AND ANY OTHER EQUIPMENT OR MATERIALS REQUIRING INSPECTION OR MAINTENANCE. ACCESS DOORS SHALL BE FURNISHED FOR FLOORS, WALLS AND CEILINGS, OF ADEQUATE SIZE SO THAT CONCEALED ITEMS WILL BE READILY ACCESSIBLE FOR SERVICING OR FOR REMOVAL AND REPLACEMENT IF NECESSARY.
- 5.B. PIPE ESCUTCHEONS: INSTALL PIPE ESCUTCHEONS ON EACH PIPE PENETRATION THRU FLOORS, WALLS PARTITIONS, AND CEILINGS WHERE PENETRATION IS EXPOSED TO VIEW AND ON EXTERIOR OF BUILDING. SECURE ESCUTCHEON TO PIPE OR INSULATION SO ESCUTCHEON COVERS PENETRATION HOLE, AND IS FLUSH WITH ADJOINING SURFACE. PROVIDE SHEET STEEL ESCUTCHEONS, SOLID OR SPLIT HINGED, FOR AREAS WHERE WATER AND CONDENSATION CAN BE EXPECTED TO ACCUMULATE, PROVIDE CAST BRASS OR SHEET BRASS ESCUTCHEONS, SOLID OR SPLIT HINGED.
- 5.C. PIPE SLEEVES: INSTALL PIPE SLEEVES WHERE PIPING PASSES THROUGH WALLS, FLOORS, CEILINGS, AND ROOFS. DO NOT INSTALL SLEEVES THROUGH STRUCTURAL MEMBERS OF WORK, EXCEPT AS DETAILED ON DRAWINGS, OR AS REVIEWED BY ARCHITECT/ENGINEER. SIZE SLEEVES SO THAT PIPING AND INSULATION (IF ANY) WILL HAVE FREE MOVEMENT IN SLEEVE, INCLUDING ALLOWANCE FOR THERMAL EXPANSION; BUT NOT LESS THAN 2 PIPE SIZES LARGER THAN PIPING RUN. INSTALL LENGTH OF SLEEVE EQUAL TO THICKNESS OF CONSTRUCTION PENETRATED, AND FINISH FLUSH TO SURFACE; EXCEPT FLOOR SLEEVES. EXTEND FLOOR SLEEVES 1/4 INCH ABOVE LEVEL FLOOR FINISH, AND 3/4 INCH ABOVE FLOOR FINISH SLOPED TO DRAIN. PROVIDE TEMPORARY SUPPORT OF SLEEVES DURING PLACEMENT OF CONCRETE AND OTHER WORK AROUND SLEEVES, AND PROVIDE TEMPORARY CLOSURE TO PREVENT CONCRETE AND OTHER MATERIALS FROM ENTERING SLEEVES.
- 5.D. WATER HAMMER ARRESTORS (WHA): PROVIDE AT ALL FAST OPENING WATER VALVES INCLUDING WATER CLOSETS, URINALS, AND CLOTHES WASHERS. SHALL BE ZURN MODEL 1260XL OR EQUIVALENT AND SHALL BE SIZED AND PLACED WITHIN THE SYSTEM AS RECOMMENDED BY THE MANUFACTURER.

6. INSULATION:

- 6.A. FLAME/SMOKE RATINGS: PROVIDE COMPOSITE PLUMBING INSULATION (INSULATION, JACKETS, COVERINGS, SEALERS, MASTICS AND ADHESIVES) WITH FLAME-SPREAD RATING OF 25 OR LESS, AND SMOKE-DEVELOPED RATING OF 50 OR LESS, AS TESTED BY ASTM E84 METHOD. INSULATION SHALL BE LABELED BY THE MANUFACTURER. THE LABEL SHALL INDICATE THE INSULATING VALUE, FLAME SPREAD AND SMOKE-DEVELOPED RATING.
- 6.B. INSTALLATION: INSULATION SHALL BE APPLIED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS USING ONLY ADHESIVES, MASTICS AND PLUMBING FASTENERS APPROVED BY THE INSULATION MANUFACTURER. INSULATION SHALL NOT BE APPLIED UNTIL AFTER THE EQUIPMENT HAS BEEN TESTED WITH RESULTS ACCEPTABLE TO THE ARCHITECT/ENGINEER. INSULATION WITH A VAPOR BARRIER JACKET SHALL BE APPLIED WITH A CONTINUOUS, UNBROKEN VAPOR SEAL AND ALL JOINTS SHALL BE SEALED WITH A VAPOR BARRIER ADHESIVE UNLESS OTHERWISE INDICATED. STAPLES, STICK CLIPS AND HANGERS SHALL BE VAPOR SEALED WHERE THEY PUNCTURE VAPOR BARRIER JACKETS.
- 6.C. MATERIALS:
- 6.C.A. GLASS FIBER PIPE INSULATION: HEAVY DENSITY PREFORMED PIPE INSULATION WITH OPERATING TEMPERATURE RANGE OF -60 DEGREES F TO 350 DEGREES F, THERMAL CONDUCTIVITY "K"=0.24 BTU-IN/HOUR-SF-DEG F AT 100 DEGREES F. FACTORY APPLIED JACKET (ASJ) SHALL CONSIST OF WHITE KRAFT PAPER BONDED TO ALUMINUM FOIL AND REINFORCED WITH GLASS FIBER YARN. EQUAL TO OWENS-CORNING ASJ.
- 6.C.B. CELLULAR FOAM PIPE INSULATION: TUBULAR, FLEXIBLE, FIRE RESISTANT INSULATION WITH OPERATING TEMPERATURE RANGE OF -40 DEGREES F TO 220 DEGREES F, THERMAL CONDUCTIVITY "K"=0.27 BTU-IN/HOUR-SF-DEG F AT 75 DEGREES F. NO JACKET REQUIRED. EQUAL TO ARMSTRONG ARMAFLEX AP.
- 6.C.C. A POLYETHYLENE PIPE INSULATION: INSULATION MATERIALS CORPORATION OF AMERICA (IMCOA), FLEXIBLE CLOSED CELL POLYETHYLENE TUBING, ASTM C534, "K"=0.24 AT 75 DEGREES F, SERVICE TEMPERATURE -110F TO 210F. NO JACKET REQUIRED.
- 6.D. OMIT INSULATION ON EXPOSED PLUMBING FIXTURE RUNOUTS FROM FACES OF WALL OR FLOOR TO FIXTURE; ON UNIONS, FLANGES, STRAINERS, FLEXIBLE CONNECTIONS, AND EXPANSION JOINTS.
- 6.E. COVER VALVES, FITTINGS AND SIMILAR ITEMS IN EACH PIPING SYSTEM WITH EQUIVALENT THICKNESS AND COMPOSITION OF INSULATION AS APPLIED TO ADJOINING PIPE RUN.
- 6.F. ALL DOMESTIC WATER PIPING ABOVE GROUND INCLUDING COLD, HOT, AND HOT WATER RE-CIRCULATING PIPING SHALL BE INSULATED WITH A MINIMUM 1/2" THICK INSULATION.
7. PLUMBING PIPING:
- 7.A. DOMESTIC WATER PIPING SHALL BE COPPER TUBE AND FITTINGS IN ACCORDANCE WITH ASTM B88, TYPE L HARD DRAWN COPPER. JOINTS SHALL BE MADE WITH LEAD FREE SOLDER.
- 7.B. STORM, SOIL, WASTE, AND VENT PIPING BELOW GRADE SHALL BE SCHEDULE 40 PVC PIPE AND FITTINGS. PVC SCHEDULE 40 PIPE SHALL BE IRON PIPE SIZE (IPS) CONFORMING TO ASTM D 1785. INJECTION MOLDED PVC SCHEDULE 40 FITTINGS SHALL CONFORM TO ASTM D 2466. PIPE AND FITTINGS SHALL BE MANUFACTURED AS A SYSTEM AND BE THE PRODUCT OF ONE MANUFACTURER. PIPE AND FITTINGS SHALL CONFORM TO NSF INTERNATIONAL STANDARD 61 AND THE HEALTH-EFFECTS PORTION OF NSF STANDARD 14.
- 7.C. STORM, SOIL, WASTE, AND VENT PIPING ABOVE GRADE SHALL BE HUBLESS CAST IRON TYPE DESIGNED FOR SAID APPLICATION. HUBLESS CAST IRON PIPE AND FITTINGS SHALL BE MANUFACTURED FROM GRAY CAST IRON AND SHALL CONFORM TO ASTM A 888 AND CISPI STANDARD 301. ALL PIPE AND FITTINGS SHALL BE MARKED WITH THE COLLECTIVE TRADEMARK OF THE CAST IRON SOIL PIPE INSTITUTE® AND LISTED BY NSF® INTERNATIONAL. HUBLESS COUPLINGS SHALL CONFORM TO CISPI STANDARD 310, SHALL BE MANUFACTURED IN THE UNITED STATES, AND BE CERTIFIED BY NSF® INTERNATIONAL.
- 7.D. CONDENSATE DRAINS SHALL BE TYPE L HARD DRAWN COPPER. JOINTS SHALL BE MADE WITH LEAD FREE SOLDER.
- 7.E. SLOPE ALL DRAIN LINES AT 1/4 INCH PER FOOT FOR

SIZES LESS THAN 4 INCHES. SLOPE AT 1/8 INCH PER FOOT FOR SIZES 4 INCH AND LARGER.

- 7.F. SOIL, WASTE, AND VENT PIPING BELOW GRADE SHALL BE A MINIMUM OF 2 INCH AND SHALL BE PROVIDED WITH METALLIC TRACING/DETECTION WIRE.
- 7.G. VENTS SHALL EXTEND A MINIMUM OF 12 INCHES ABOVE THE ROOF. ROOF FLASHING SHALL BE PROVIDED AND COORDINATED WITH THE GENERAL AND ROOFING CONTRACTORS.
- 7.H. TRENCHING AS REQUIRED FOR UNDERGROUND PIPING SHALL BE GRADED TO UNIFORM PITCH AND SHALL BE NO WIDER THAN NECESSARY FOR PIPING INSTALLATION. CLEAN BACKFILL SHALL BE USED AND THOROUGHLY TAMPED IN LAYERS NOT EXCEEDING 6 INCHES TO A MINIMUM DEPTH OF 1 FOOT ABOVE PIPE. COMPACTED BACKFILL SHALL BE USED FOR THE ENTIRE DEPTH OF EXCAVATION UNDER SLAB ON GRADE CONSTRUCTION.
- 7.I. NATURAL GAS SYSTEMS: PIPING SHALL BE SCHEDULE 40 BLACK STEEL PIPE, ASTM A120/A53-CW OR ASTM/A53 GRADE B (WELDED OR SEAMLESS); WROUGHT STEEL BUTTWELDING FITTINGS. GAS COCKS 2 INCHES AND SMALLER SHALL BE RATED FOR 150 PSI, NON SHOCK WOG, BRONZE STRAIGHTWAY COCK, FLAT OR SQUARE HEAD, WITH THREADED ENDS. ALL GAS PIPING CONNECTIONS SHALL BE PROVIDED WITH A 6 INCH DIRT TRAP, UNION, AND GAS COCK SHUT OFF VALVE. ALL JOINTS SHALL BE SEALED WITH CHEMICALLY RESISTANT SEALER APPLIED TO MALE THREADS OF PIPE CONNECTION. GAS PIPING SHALL BE INSTALLED WITH A 1/64 INCH PER FOOT DOWNWARD SLOPE IN THE DIRECTION OF FLOW. A ROLLER BEARING TYPE PIPE SUPPORT SHALL BE USED TO SUPPORT ALL GAS PIPING LOCATED ON THE ROOF. SUPPORTS SHALL HAVE A POLYCARBONATE BASE, WITH PIPE RESTING ON A SELF LUBRICATING POLYCARBONATE RESIN AXLE AND ROLLER AND BE SIZED FOR THE PIPE BEING SUPPORTED. MAXIMUM SPACING SHALL NOT EXCEED 10FT.
8. PLUMBING FIXTURES, PUMPS, AND WATER HEATERS SHALL BE PROVIDED AND INSTALLED AS PER THE PLUMBING FIXTURE SCHEDULE. ALL EXPOSED FIXTURE SUPPLIES AND WASTE LINES SHALL BE CHROME PLATED. NO EXPOSED COPPER, PVC, AND/OR CAST IRON IS ALLOWED.
9. CLEANOUTS SHALL BE THE SAME SIZE AS LINE SERVED, BUT NOT LARGER THAN 4 INCHES, AND SHALL BE PROVIDED AT THE BASE OF EACH SOIL AND WASTE STACK, AT ALL POINTS WHERE DIRECTION CHANGE IS MORE THAN 45 DEGREES, AT MINIMUM INTERVALS OF 50 FEET FOR 4 INCH AND SMALLER PIPING, AT MINIMUM INTERVALS OF 100 FEET FOR PIPING LARGER THAN 4 INCHES, AS REQUIRED BY CODE AND AS INDICATED ON THE DRAWINGS. COVERS SHALL BE SET FLUSH WITH FLOOR OR WALL.
10. PLUMBING VALVES
- 10.A. PROVIDE SHUT-OFF VALVE AND UNION OR EQUIVALENT AT EACH HOT AND COLD WATER EQUIPMENT CONNECTION. PROVIDE SHUTOFF VALVE ON EACH BRANCH OR RISER THAT SERVES TWO OR MORE PLUMBING FIXTURES.
- 10.B. GATE VALVES 2-1/2 INCHES AND SMALLER: ALL BRONZE, RISING STEM, SOLID WEDGE DISC. STOCKHAM B-100 OR B-108.
- 10.C. GLOBE VALVES: ALL BRONZE, RENEWABLE COMPOSITION DISC. STOCKHAM B-16 OR B-14-T.
- 10.D. CHECK VALVES IN HORIZONTAL PIPES: 2 INCHES AND SMALLER: ALL BRONZE, REGRINDING BRONZE DISC, HORIZONTAL SWING, Y-PATTERN. STOCKHAM B-319OR B-309.
- 10.E. CHECK VALVES IN VERTICAL PIPES AND PUMP DISCHARGE: SILENT CHECK VALVE WITH SEMI-STEEL BODY, BRONZE TRIM AND STAINLESS STEEL SPRING. METRAFLEX 700 SERIES.
- 10.F. BALL VALVES MAY BE USED IN LIEU OF GATE VALVES 2 INCHES AND SMALLER. BALL VALVES SHALL HAVE BRONZE BODY, BRONZE BALL AND TFE SEATS AND SEALS. STOCKHAM S-216BRRT OR S-216BRRS.
11. CLEANING AND TESTING
- 11.A. ALL WATER PIPING, VALVES, ETC. SHALL BE THOROUGHLY FLUSHED OF FOREIGN MATTER AND TESTED FOR LEAKS IN ACCORDANCE WITH THE PLUMBING AND BUILDING CODE, LATEST EDITION. ANY LEAKAGE SHALL BE REPAIRED. DISINFECT DOMESTIC WATER PIPING INCLUDING WATER SERVICE PIPING IN ACCORDANCE WITH AWWA C601.
- 11.B. ALL DRAIN, WASTE AND VENT PIPING SHALL BE TESTED FOR LEAKS IN ACCORDANCE WITH THE PLUMBING AND BUILDING CODE CODE, LATEST EDITION. NO VISIBLE DROP IN WATER LEVEL WILL BE ACCEPTABLE.

END OF SPECIFICATIONS.



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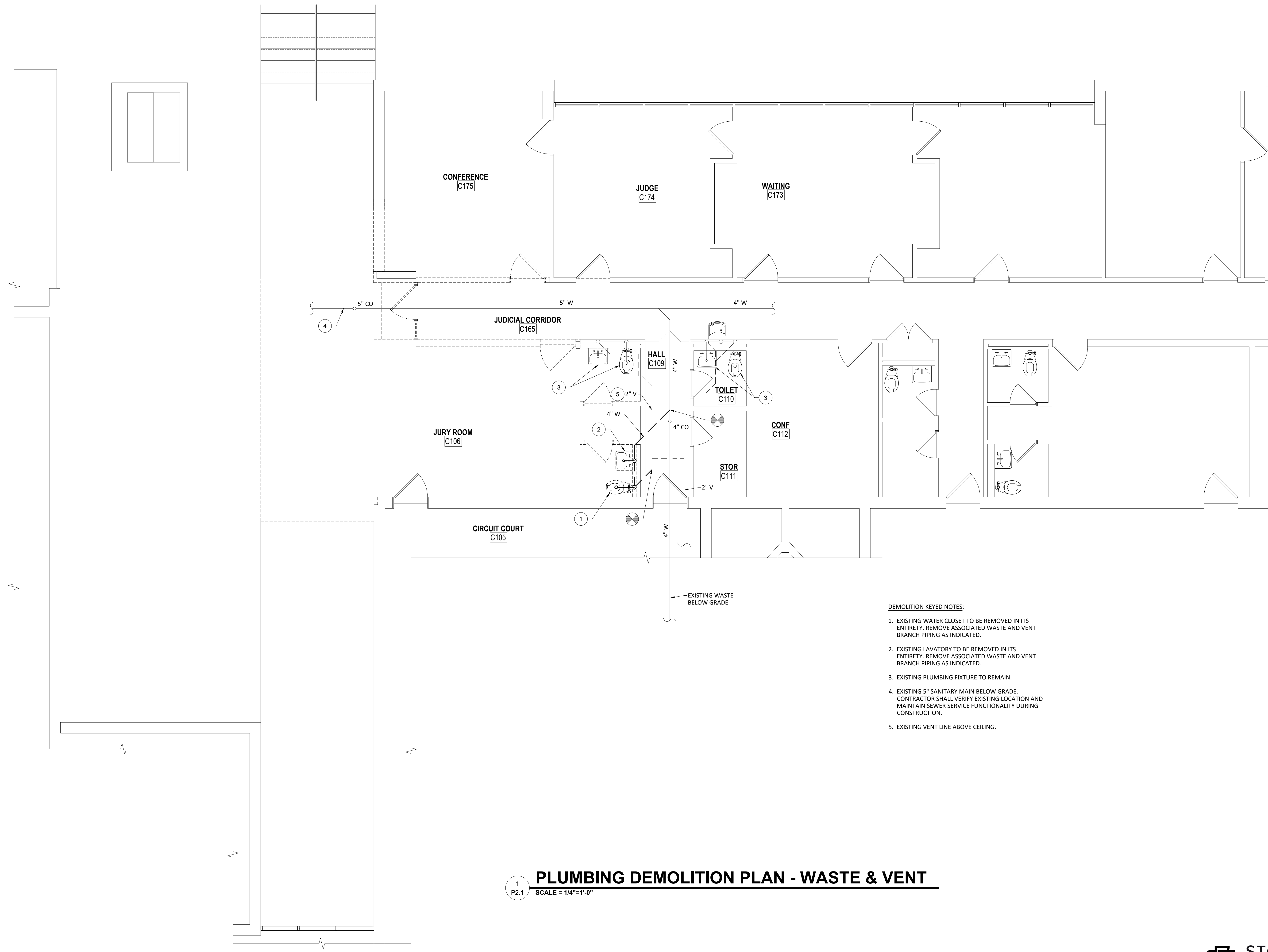


SALEM COURTHOUSE JURY ROOM
RENOVATION
PLUMBING DEMOLITION PLAN - WASTE AND VENT
2 E CALHOUN ST
SALEM, VA 24153

DRAWN BY JB
DESIGNED BY JNB
CHECKED BY JNB
DATE 08-30-2023
SCALE As indicated
REVISIONS

**STOTTSBERG
ENGINEERING**
www.stottsbergeng.com
540-216-0331
Project #22065

P2.1



DEMOLITION KEYED NOTES:

1. EXISTING WATER CLOSET TO BE REMOVED IN ITS ENTIRETY. REMOVE ASSOCIATED WASTE AND VENT BRANCH PIPING AS INDICATED.
2. EXISTING LAVATORY TO BE REMOVED IN ITS ENTIRETY. REMOVE ASSOCIATED WASTE AND VENT BRANCH PIPING AS INDICATED.
3. EXISTING PLUMBING FIXTURE TO REMAIN.
4. EXISTING 5" SANITARY MAIN BELOW GRADE. CONTRACTOR SHALL VERIFY EXISTING LOCATION AND MAINTAIN SEWER SERVICE FUNCTIONALITY DURING CONSTRUCTION.
5. EXISTING VENT LINE ABOVE CEILING.

PLUMBING DEMOLITION PLAN - WASTE & VENT

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



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SALEM COURTHOUSE JURY ROOM
RENOVATION
PLUMBING DEMOLITION PLAN - WATER

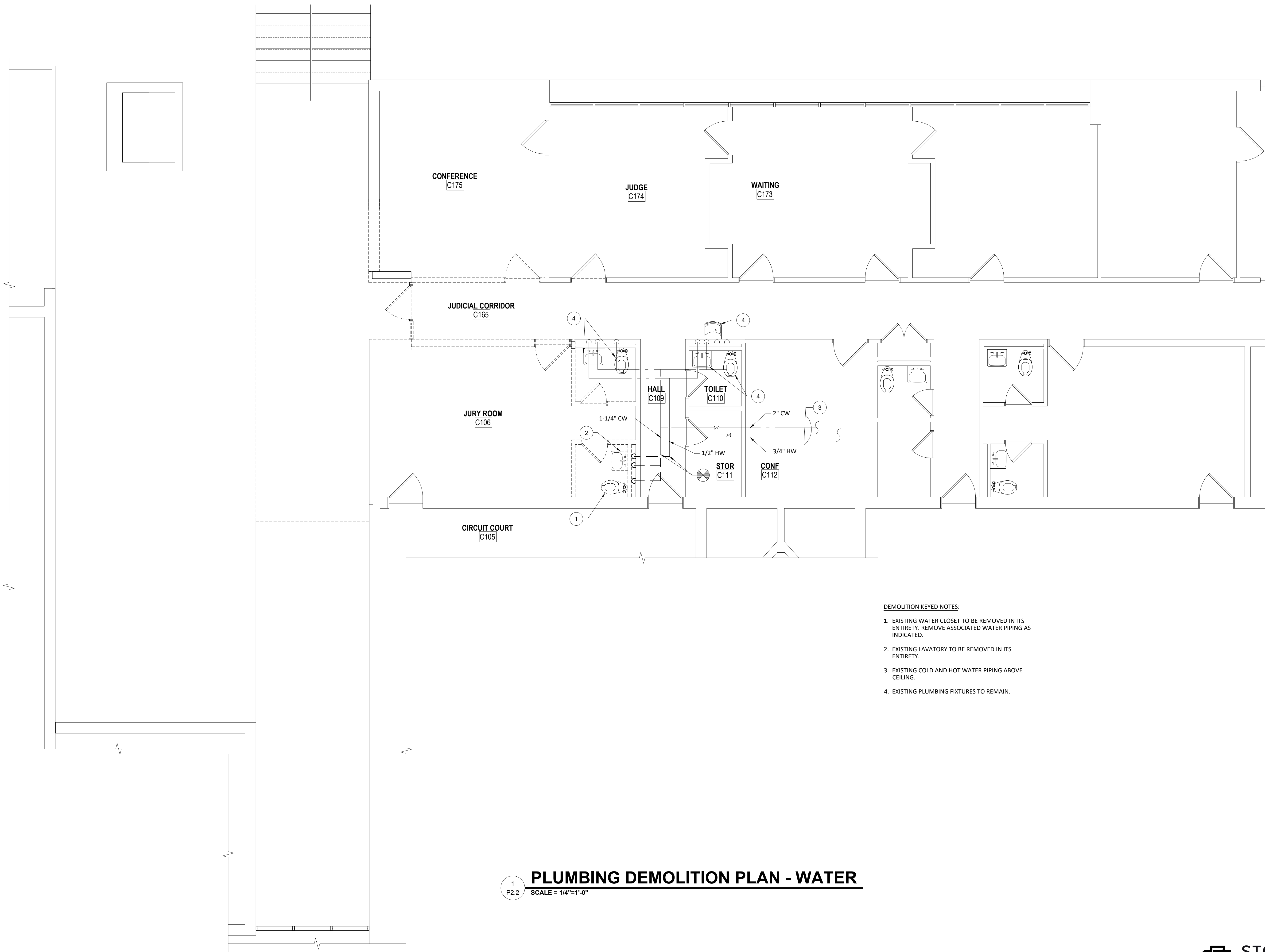
2 E CALHOUN ST
SALEM, VA 24153

DRAWN BY JB
DESIGNED BY JNB
CHECKED BY JNB
DATE 08-30-2023
SCALE As indicated
REVISIONS



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Project #22065

P2.2



DEMOLITION KEYED NOTES:

1. EXISTING WATER CLOSET TO BE REMOVED IN ITS ENTIRETY. REMOVE ASSOCIATED WATER PIPING AS INDICATED.
2. EXISTING LAVATORY TO BE REMOVED IN ITS ENTIRETY.
3. EXISTING COLD AND HOT WATER PIPING ABOVE CEILING.
4. EXISTING PLUMBING FIXTURES TO REMAIN.

1
P2.2
PLUMBING DEMOLITION PLAN - WATER
SCALE = 1/4"=1'-0"



SALEM COURTHOUSE JURY ROOM

RENOVATION

RENOVATION
PLUMBING NEW WORK PLAN - WASTE AND VENT

22 E CALHOUN ST
SALEM VA 24162

| | |
|-------------|--------------|
| DRAWN BY | JB |
| DESIGNED BY | JNB |
| CHECKED BY | JNB |
| DATE | 08-30-2023 |
| SCALE | As indicated |
| REVISIONS | |

DRAWN BY J

DESIGNED BY JN

CHECKED BY JN

| | |
|------|---------|
| DATE | 08-30-2 |
|------|---------|

| | |
|-------|--------------|
| SCALE | As indicated |
|-------|--------------|

REVISIONS



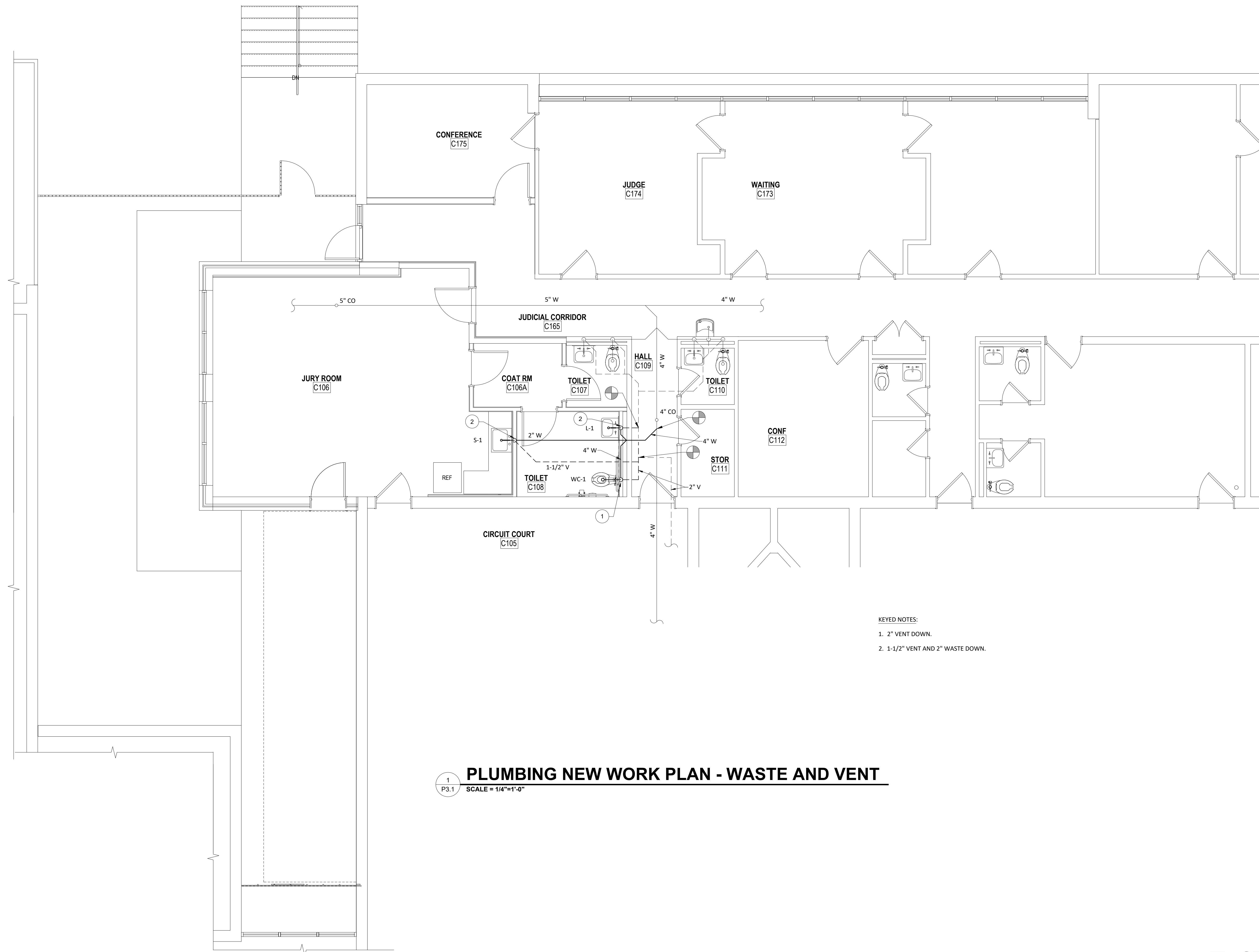
STOTTSBERG
ENGINEERING

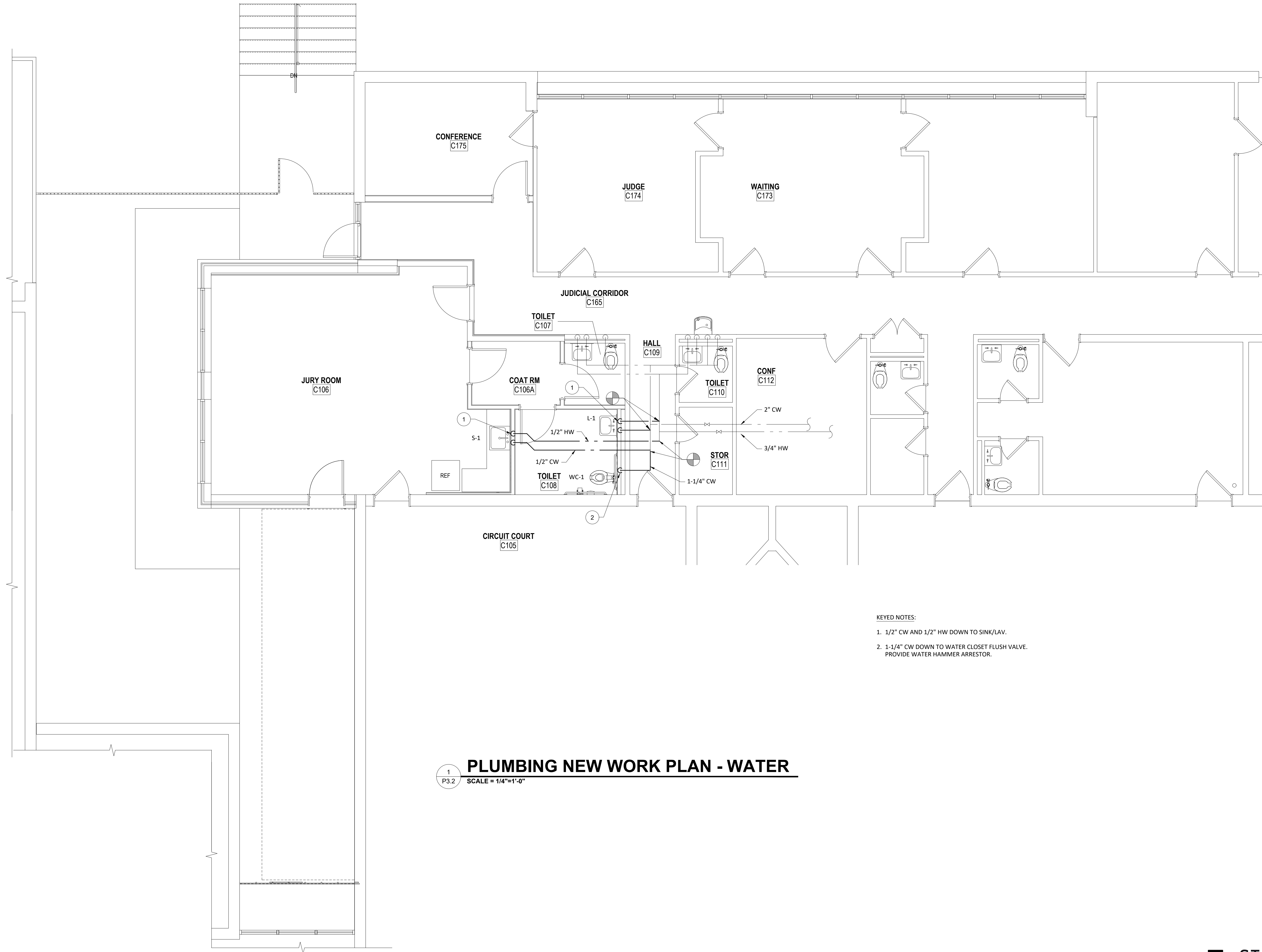
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Project #22065

P3.1

PROJECT NO. _____

03220052.00





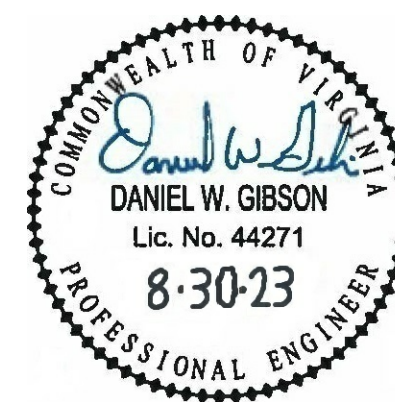
- KEYED NOTES:
- 1/2" CW AND 1/2" HW DOWN TO SINK/LAV.
 - 1-1/4" CW DOWN TO WATER CLOSET FLUSH VALVE.
PROVIDE WATER HAMMER ARRESTOR.

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



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SALEM COURTHOUSE JURY ROOM
RENOVATION
GENERAL NOTES AND LEGEND

2E CALHOUN ST
SALEM, VA 24153

DRAWN BY: DWG
DESIGNED BY: DWG
CHECKED BY:
DATE: 08/30/2023
SCALE: AS INDICATED
REVISIONS:



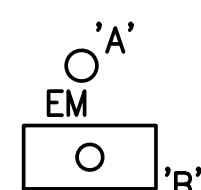
2100 LUBNA DR
CHRISTIANSBURG VA 24073
P. 540.998.6069

E1.1
PROJECT NO: 03220058.00

GENERAL NOTES

- MECHANICAL EQUIPMENT IS SHOWN IN APPROXIMATE LOCATIONS. FOR EXACT LOCATIONS OF MECHANICAL EQUIPMENT AND PIPING, SEE MECHANICAL DRAWINGS. SOME MECHANICAL EQUIPMENT IS LOCATED ON THE ROOF. VERIFY LOCATION WITH MECHANICAL AND PROVIDE ALL CONDUIT AND WIRING TO OUTDOOR EQUIPMENT.
- WHERE LIGHT SWITCHES ARE INDICATED TO BE MOUNTED BEHIND DOOR, MOUNT SUCH SWITCHES A MINIMUM OF 3'-9" FROM HINGED SIDE.
- REVISE PANELBOARD SCHEDULES ON PANEL DIRECTORIES TO REFLECT FINAL INSTALLATION CONDITIONS.
- LOCATE ALL RACEWAYS TO AVOID INTERFERENCE WITH DUCTS, PIPES, MECHANICAL EQUIPMENT, WITH REMOVAL OF CEILING TILES, OR WITH ACCESS TO EQUIPMENT WHICH REQUIRES PERIODIC ADJUSTMENT OR MAINTENANCE.
- PROVIDE NAMEPLATES ON THE EXTERIOR OF ALL ELECTRICAL PANELS AND ENCLOSURES WITH THE DEVICE ID, RATING, POWER SOURCE AND INSTALLATION DATE AND BY WHICH SWITCH OR STARTER.
- COUNTER AND TOILET RECEPTACLES TO BE GFI AND COUNTER HEIGHT EXCEPT WHERE NOTED. REFRIGERATOR RECEPTACLE TO BE 36" AFF.
- LIGHT FIXTURE TYPE IS SHOWN ONLY ONCE AS TYPICAL FOR THE ENTIRE ROOM UNLESS SPECIFICALLY INDICATED OTHERWISE.
- UNLESS INDICATED OTHERWISE, SIZE CONDUITS IN ACCORDANCE WITH NFPA 70.
- COORDINATE WITH THE MECHANICAL CONTRACTOR TO ENSURE ALL WORKING CLEARANCE AND DEDICATED WORKING SPACE OF PANELBOARDS.
- GROUNDING CONDUCTORS ARE NOT INDICATED IN BRANCH CIRCUIT RACEWAYS. PROVIDE GROUND CONDUCTORS AS REQUIRED BY NEC.
- OCCUPANCY SENSORS SHOULD CONTROL ALL LIGHTING IN ROOMS, BOTH INBOARD AND OUTBOARD SWITCHING WHERE APPLICABLE, UNLESS INDICATED OTHERWISE.
- PROVIDE PLASTIC BUSHING ON THE END OF ALL CONDUIT.
- PROVIDE LABELS ON ALL RECEPTACLE INDICATING PANEL AND CIRCUIT FEEDING EACH DEVICE.
- COORDINATE WITH OWNER TO PROVIDE DATA DROPS AS REQUIRED AND TO LOCATION EXACT LOCATION OF DESIRED DROPS. PROVIDE PULL CORDS WITH ALL DATA BOXES. ALL WORK STATIONS REQUIRE DATA DROP.
- CONNECT EMERGENCY BATTERY UNITS TO LOCAL LIGHTING CIRCUITS.

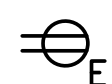
ELECTRICAL LEGEND



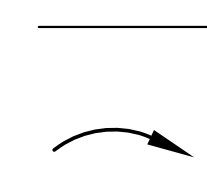
LED LIGHTING FIXTURE, RECESSED, SURFACE OR PENDANT CEILING MOUNTED, COORDINATE WITH OWNER FOR ANY DESIRED NIGHT LIGHT LOCATIONS. 'EM' INDICATES INTEGRAL OR REMOTE INVERTER TO PROVIDE STANDBY POWER FOR EGRESS. 'A', 'B', 'C', 'D', INDICATES FIXTURE TYPE



QUAD-PLEX WALL RECEPTACLE



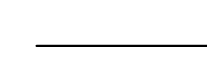
DUPLEX WALL RECEPTACLE, MOUNTING HEIGHT = 1'-6", EXCEPT 'C' SUBSCRIPT INDICATES MOUNTING IN CASEWORK(TYP). 'GFI' SUBSCRIPT INDICATES GROUND FAULT, 'M' SUBSCRIPT INDICATES RECEPTACLE MOUNTED BEHIND MIRROR, 'EWC' SUBSCRIPT INDICATES GROUND FAULT BEHIND ELECTRIC WATER COOLER. '*' INDICATES MOUNTED HEIGHT = 8" ABOVE COUNTER(TYP). 'E' INDICATES EXISTING TO REMAIN.



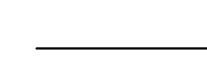
CONDUCTORS IN CONDUIT CONCEALED IN CEILING OR WALL.

BRANCH CIRCUIT HOME RUN TO PANELBOARD. NOTATION INDICATES PANELBOARD & BRANCH CIRCUIT CONNECTION.

CONDUCTORS IN CONDUIT CONCEALED IN SLAB OR BELOW GRADE.



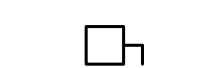
CONDUCTORS IN CONDUIT TURNED UP.



CONDUCTORS IN CONDUIT TURNED DOWN.



PANELBOARD, 208Y/120-VOLT, 3-PHASE, 4-WIRE, MOUNTING HEIGHT=6'-0" TO TOP. SEE PANELBOARD SCHEDULES.



DISCONNECT SWITCH, EXTERNALLY OPERATED, 240V, 3 Ø UNLESS OTHERWISE NOTED. NOTATION INDICATES NUMBER OF POLES AND AMPERAGE CAPACITY. 'NF' SUBSCRIPT INDICATES NON FUSED.

NOTES THIS SHEET:

- REMOVE EXISTING LIGHTING AND CONTROLS IN THIS ROOM. RETAIN CIRCUIT FOR REUSE.
- REMOVE EXISTING RECEPTACLES ASSOCIATED WITH WALLS SCHEDULED FOR DEMOLITION.
- REMOVE EXISTING FIRE ALARM DEVICES. RETAIN CIRCUITS FOR REUSE WITH NEW LAYOUT.
- REMOVE EXISTING EXTERIOR LIGHT. RETAIN CIRCUIT FOR NEW LAYOUT. RECONNECT TO NEW EXTERIOR LIGHTS.
- RELOCATE EXISTING EXTERIOR LIGHT POST. RETAIN AND PROTECT CIRCUIT TO MAINTAIN CONNECTIVITY. SEE SHEET A1.01 FOR RELOCATION OF EXISTING EXTERIOR POLE MOUNTED LIGHTS.
- DISCONNECT EXISTING HP UNITS. RETAIN CIRCUIT FOR RECONNECTION WITH NEW UNITS.
- EXISTING CIRCUIT NUMBERS ARE IDENTIFIED FROM EXISTING DRAWINGS AND FIELD WORK. VERIFY EXISTING CIRCUITS PRIOR TO CONSTRUCTION.

| EXISTING PANEL F | | | | | | | | | | | | | | | | | |
|---|------|------|----|-------------------------|------------|-----|-----|------------------------|----------------------|------|------|---|-----------------------------|------------------------|-----|-----|------|
| VOLTAGE: 240/120 | | | | PHASE: 3 | | | | BUS AMPS: 225A | | | | <input checked="" type="checkbox"/> SURFACE MOUNTED <input type="checkbox"/> FLUSH MOUNTED | | KAIC RATING: 42,000 | | | |
| | | | | WIRE: 4 | | | | MAIN BREAKER AMPS: MLO | | | | | | | | | |
| CKT NO. | BRKR | WIRE | | CIRCUIT | LOAD - KVA | | | | CKT NO. | BRKR | WIRE | | CIRCUIT | LOAD - KVA | | | |
| P | AMPS | NO | SZ | DESCRIPTION | PHA | PHB | PHC | 3 PH | P | AMPS | NO | SZ | DESCRIPTION | PHA | PHB | PHC | 3 PH |
| 1 | 20 | | | LIGHTING TOILET | | | | | 2 | 20 | | | SINGLE RCPT CONF | | | | |
| 3 | 20 | | | LIGHT TOILET CONF | | | | | 4 | 20 | | | SINGLE RCPT CONF | | | | |
| 5 | 20 | | | RCPT TOILET CONF RM | | | | | 6 | 20 | | | COMP POLE | | | | |
| 7 | 20 | | | RCPT CONF. JDGE | | | | | 8 | 20 | | | RCPT STORGE CONF RM | | | | |
| 9 | 20 | | | RCPT WAIT /SEC. JDGE | | | | | 10 | 20 | | | RCPT CLOCK JURY AND CONTROL | | | | |
| 11 | 20 | | | RCPT CONF/JDGE | | | | | 12 | 20 | | | DEPUTIES OFFICES | | | | |
| 13 | 20 | | | EWG | | | | | 14 | 20 | | | REC/WAIT SEC JDGE, LIB | | | | |
| 15 | 20 | | | SPARE | | | | | 16 | 20 | | | REC WAIT /SEC JDGE | | | | |
| 17 | 20 | | | RCPT CLOCK STORAGE JURY | | | | | 18 | 20 | | | REC CLOCK STORAGE JURY | | | | |
| 19 | 20 | | | REC LIBRARY | | | | | 20 | 20 | | | EWG | | | | |
| 21 | 20 | | | REC JUDGE WAIT /SEC | | | | | 22 | 20 | | | MIRCO COFY POT | | | | |
| 23 | 20 | | | REC WAIT SEC JDGE | | | | | 24 | 20 | | | MICRO COFFEE POT | | | | |
| 25 | 20 | | | SPARE | | | | | 26 | 20 | | | SPARE | | | | |
| 27 | 20 | | | SPARE | | | | | 28 | 20 | | | EXTERIOR LTG POLE | | | | |
| 29 | 20 | | | REC FOR NETWORK BOX | | | | | 30 | 20 | | | EXTERIOR LTG GROUND LTS | | | | |
| 31 | | | | BLANK | | | | | 32 | 1 | | | BLANK | | | | |
| 33 | | | | BLANK | | | | | 34 | 1 | | | BLANK | | | | |
| 35 | | | | BLANK | | | | | 36 | 1 | | | BLANK | | | | |
| 37 | | | | BLANK | | | | | 38 | 1 | | | BLANK | | | | |
| 39 | | | | BLANK | | | | | 40 | 1 | | | BLANK | | | | |
| 41 | 20 | GFI | | GFI BATH RMS | | | | | 42 | 20 | GFI | | GFI EXTERIOR RCPT | | | | |
| TOTAL LEFT SIDE | | | | | 0.0 | 0.0 | 0.0 | 0.0 | TOTAL RIGHT SIDE | | | | | 0.0 | 0.0 | 0.0 | 0.0 |
| TOTAL RIGHT SIDE | | | | | 0.0 | 0.0 | 0.0 | 0.0 | TOTAL CONNECTED LOAD | | | | | 0.0 | | | |
| TOTAL | | | | | 0.0 | 0.0 | 0.0 | 0.0 | | | | | | | | | |
| * NOTES | | | | | | | | | | | | | | | | | |
| 1. BOLD CIRCUITS ARE TO BE MODIFIED AND REUSED WITH NEW WORK. | | | | | | | | | | | | | | | | | |

1. PROVIDE A NEW FIRE ALARM STROBE AND PULL STATION IN JURY ROOM.
2. PROVIDE A NEW FIRE ALARM STROBE IN CONFERENCE ROOM.
3. PROVIDE AN ADDITIONAL FIRE ALARM STROBE IN CORRIDOR.
4. RECONNECT HP UNITS TO EXISTING CIRCUITS INDICATED.
5. RECONNECT POWER TO EXISTING CIRCUITS INDICATED.
6. PROVIDE NEW POWER CIRCUITS FOR KITCHEN AREA IN JURY ROOM.
7. PROVIDE NEW FIRE ALARM PULL STATION AND HORN STROBE AT NEW DOOR LOCATION.
8. PROVIDE NEW EXTERIOR BUILDING MOUNTED LIGHTING. CONTROL LIGHT WITH INTERNAL PHOTOCELL.
9. CONNECT LIGHT TO EMERGENCY CIRCUIT IN THIS AREA. PROVIDE G.T.D. WITH FIXTURE TO ALLOW FIXTURE TO BE CONTROLLED WITH LOCAL SWITCHING.
10. PROVIDE NEW CONTROLS INDICATED FOR LIGHTING. RECONNECT TO EXISTING LIGHTING CIRCUIT.

11. RECONNECT CORRIDOR LIGHTING TO EXISTING CORRIDOR LIGHTING CIRCUIT AND CONTROLS.
12. PROVIDE A 20 AMP CIRCUIT FOR BI-POLAR IONIZATION. COORDINATE LOCATION WITH MECHANICAL CONTRACTOR.
13. PROVIDE A QUAD RECEPTACLE AND CONDUIT AND WIRING TO BOX AT TV. PROVIDE 1 1/2" CONDUIT FOR HDMI CABLE FROM TV BOX TO FLOOR BOX. PROVIDE A 1 1/2" CONDUIT FROM FLOOR BOX TO ABOVE THE CEILING.
14. SS-1 AND OU-1 INSTALLED WITH ALTERNATE PLAN. SEE MECHANICAL PLANS FOR ADDITIONAL INFORMATION.
15. HP-1 INSTALLED IN BASE PLAN. SEE MECHANICAL PLANS FOR ADDITIONAL INFORMATION.
16. PROVIDE NEW LIGHT ON EXTERIOR OF BUILDING. RECONNECT TO EXISTING CIRCUIT CONTROLLING EXTERIOR BUILDING MOUNTED LIGHTING.

[illegible]

HP-2, NOTE 4

V-17

CONFERENCE
C175

NOTE 2,5

F-18

V

JUDGE
C174

WAITING
C173

NOTE 7

F

F

42"

42"

F-31

S-1
NOTE 14

NOTE 1,5

JURY ROOM
C106

OU-1
NOTE 14

F-31

NOTE 13

NOTE 3

V

JUDICIAL CORRIDOR
C165

F-17

COAT RM
C106A

TOILET
C107

F-17

GFI

V

GFI

HALL
C109

TOILET
C110

STOR
C111

CONF
C112

NOTE 6

F-32

F-34

F-36

REF

GFI

GFI

GFI

TOILET
C108

HP-1
NOTE 4,15

V-19

F

FIRST FLOOR POWER AND DATA PLAN

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



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SALEM COURTHOUSE JURY ROOM
RENOVATION
ELECTRICAL SPECIFICATIONS

DRAWN BY _____ DWG
DESIGNED BY _____ DWG
CHECKED BY _____
DATE _____ 08/30/2023
SCALE _____ AS INDICATED
REVISIONS _____

E3.1
PROJECT NO. 03220058.00

SECTION 16000

ELECTRICAL SPECIFICATIONS

PART 1 - GENERAL

1.1 DESCRIPTION OF WORK

Provide new lighting, power, data and low voltage systems as indicated on the plans.

1.2 QUALITY ASSURANCE

- A. General
- Comply with IEEE C2, "National Electrical Safety Code".
 - IEEE Compliance: Comply with applicable Institute of Electrical and Electronics Engineers, Inc. standards pertaining to generator construction.
 - NEC Compliance: Comply with NFPA 70, "National Electrical Code" as applicable to construction and installation of products required in this specification.
 - UL and NEMA Compliance and Labeling: Provide products which have been labeled by Underwriters Laboratories and have been certified to comply with UL requirements.
 - IEEE Compliance: Comply with STD 241, "IEEE Recommended Practice for Electrical Power Systems in Commercial Buildings" pertaining to communication systems.
- B. MOTOR CONTROLLERS
- UL and NEMA Compliance and Labeling: Provide products which have been labeled by Underwriters' Laboratories and have been certified to comply with UL and NEMA.
- C. LIGHTING

- NEMA Compliance: Comply with applicable requirements of NEMA Stds. Pub/No.'s LE 1 and LE 2 pertaining to lighting equipment.
 - UL Compliance: Comply with UL standards, including UL 486A and B, pertaining to lighting fixtures. Provide lighting fixtures and components which are UL listed and labeled. Provide exterior fixtures with "Suitable for Wet Location" label.
 - CBM Labels: Provide fluorescent lamp ballasts which comply with Certified Ballast Manufacturers Association standards and carry the CBM label.
- 1.3 COORDINATION OF ELECTRICAL WORK
- A. General: Refer to the division sections for general coordination requirements applicable to the entire work. It is recognized that the contract documents are diagrammatic in showing certain physical relationships which must be established within the electrical work and in its interface with other work including utilities and mechanical work and that such establishment is the exclusive responsibility of the Contractor.
- Arrange electrical work in a neat, well organized manner with conduit and similar services running parallel with primary lines of the building construction and with the maximum headroom possible, but a minimum 7'-0" overhead clearance.
 - Locate operating and control equipment properly to provide easy access and arrange entire electrical work with adequate access for operation and maintenance.
 - Advise other trades of openings required in their work for the subsequent move_in of large units of electrical equipment.
 - Coordinate all work, including power outages, with Owner's Schedule of Operation.
- B. Product Handling: Space at the project for storage of materials and products is limited. Coordinate the deliveries of electrical materials and products with the scheduling and sequencing of the work so that storage requirements at the project are minimized. In general, do not deliver individual items of electrical equipment to the project substantially ahead of the time of installation.

1.3 ELECTRICAL SYSTEM IDENTIFICATION

- A. Conduit Systems: Provide adequate marking of primary conduits which are exposed or concealed in accessible spaces, to distinguish each run as either a power or signal/communication conduit. Except as otherwise indicated, use orange banding with black lettering. Provide self_adhesive or snap_on type plastic markers. Indicate voltage ratings of conductors where above 240 V. Locate markers at ends of conduit runs, near switches and other control devices and near items of equipment served by the conductors. Switch leg conduit and short branches for power connections need not be marked, except where conduit is larger than 1 inch. Label all junction boxes with branch circuit numbers terminated within.
- B. Identification Labels and Warning Signs: Provide engraved plastic_laminate or baked enamel labels on major units of electrical equipment including switchboards, panelboards, motor controllers, disconnect switches, signal and similar systems. Label shall include equipment identification mark and voltage characteristics and shall be melamine plastic, 0.125_inch thick, white with black center core. Provide warning signs where there is hazardous exposure or danger associated with access to or operation of electrical facilities. Provide text of sufficient clarity and lettering of sufficient size, minimum 0.25 inch nominal block style, to convey adequate information at each location; mount permanently in an appropriate and effective location.

1.4 PAINTING ELECTRICAL WORK

- A. General: Except as otherwise indicated, comply with the applicable provisions of Division 9 for electrical_work painting. Electrical equipment shall have factory applied painting systems which shall meet the requirements of NEMA ICS6. The work of this article shall include general field painting of electrical work.
- Coordinate the painting with the painting of other work of a similar nature and comply with indicated color and color matching requirements. Except as otherwise indicated, paint surfaces of electrical work which would normally be painted in the application and exposure indicated.
- B. Do not paint over nameplates on equipment, sliding/rotating shaft surfaces, non_ferrous hardware/accessories/trim and similar items where painting would normally be omitted.

1.5 ELECTRICAL SYSTEM PERFORMANCE

- A. General: The overall system performances of electrical work are of even greater importance than the specified individual unit_of_work performances. Each unit of electrical work has been designed and specified to perform at minimum levels of output and efficiency and is intended to contribute to and be compatible with the entire system. Compatibility of actual performances by electrical system performances is the Contractor's responsibility.
- B. Adjustments: Where it has been determined that electrical systems do not or will not perform in compliance with the specified performances, adjustments or corrections shall be made to the work as necessary to achieve required performances.

1.6 ELECTRICAL WORK CLOSEOUT

- A. Additional Service: Perform services within the above 12-month period not classified as routine maintenance or as warranty work as described in Division 1 Section "Warranties and Bonds" when DWGized in writing. Compensation for additional services must be agreed upon in writing prior to performing services.
- B. Closeout Coordination: Coordinate closeout operations with closeout of mechanical systems and other power consuming equipment.
- C. Record Drawings: Maintain a blue_line set of electrical contract drawings and/or shop drawings in clean, undamaged condition, for indication of major electrical equipment or concealed lines located in position other than that shown on the contract drawings. Mark_up whatever drawings are most capable of showing installed conditions accurately. In general, record every substantive installation of electrical work which previously is either not shown or shown inaccurately, specifically record the following:
- Work concealed behind or within other work, in a nonaccessible location.
 - Main feeders with switchgear, panelboards, and control devices located, identified and numbered. This information shall be displayed in a glazed, hardwood frame, minimum two (2) feet square, near the main service disconnect.
 - Maintenance procedures and schedules.
 - Testing procedures and acceptable parameters.
- G. Cleaning and Lubrication: After final testing of each electrical system, clean system both externally and internally. Comply with manufacturer's instructions for lubrication of both power and hand operated equipment. Touch_up minor damage to factory_painted finishes and provide one pint of touch-up paint for each color of major equipment installed.

PART 2 - PRODUCTS

2.1 CABLE AND WIRE

- A. Provide factory-fabricated wire or cable of the size, rating, material and type as indicated for each service in compliance with NECA - Standard of Installation. Where not indicated, provide proper selection as determined by the work requiring the installation to comply with NEC standards. Conductors shall be rated 600 volt of insulation type THW, THWN, THHN, or USE installed in compliance with National Electrical Code requirements.
- B. Provide bonding conductors for sizes No. 8 AWG and smaller of solid bare copper per ASTM B 1, and for sizes No. 6 AWG and larger stranded bare copper per ASTM B 8.
- C. No. 10 AWG and smaller diameter shall be solid copper; No. 8 AWG and larger diameter shall be stranded copper.
- D. Provide color coding for service, feeder, branch, control, and signalling circuit conductors. Color shall be green for grounding conductors and white for neutrals; except where neutrals of more than one system are installed in same raceway or box, other neutral shall be white with colored (not green) stripe. Color of ungrounded conductors in different voltage systems shall be as follows:
- 120/208 volt, 3-phase:
 - Phase A - black.
 - Phase B - red.
 - Phase C - blue.
- E. Provide the following types of cables in NEC approved locations and applications where indicated. Provide cable UL listed for its intended use.
- Metal clad cable: Type MC.
- F. Provide UL 486A, factory-fabricated, solderless, metal connectors of the size, ampacity, rating, material, type and class as indicated for each service. Where not indicated, provide proper selection as determined by the work requiring the installation to comply with NEC standards. Provide insulating tape in compliance with UL 510.

2.2 ELECTRICAL RACEWAYS

- A. Metal Conduit, Tubing and Fittings: Provide metal conduit, tubing and fittings of type, grade, size and weight indicated for each service. Where type and grade are not indicated, provide proper selection as determined by the work requiring the installation to comply with NEC standards for wiring requirements.
- Rigid Steel Conduit: ANSI C80.1, UL 6.
 - Intermediate Steel Conduit (Zinc Coated Steel): UL 1242.
 - Rigid Metal Conduit Fittings: UL 514B, cadmium- or zinc- coated threaded type.
 - Electrical Metal Tubing (EMT): ANSI C80.3, UL 797.
 - EMT Fittings: UL 514B, compression or set-screw type
 - Flexible Metal Conduit: Cadmium- or zinc-coated steel.
 - Flexible Metal Conduit Fittings: UL 514B, cadmium- or zinc-coated.
 - Liquid-Tight Flexible Metal Conduit: UL 360, provide liquid-tight flexible metal conduit comprised of single strip, continuous, flexible, interlocked, double-wrapped steel, galvanized inside and outside; forming smooth internal wiring channel; with liquid-tight jacket of flexible polyvinyl chloride.
 - Liquid-Tight Flexible Metal Conduit Fittings: FS W-F-406.
- B. Wireways: Electrical wireways shall be of types, sizes, and number of channels as indicated. Fittings and accessories including but not limited to couplings, offsets, elbows, expansion joints, adapters, hold-down straps, and end caps shall match and mate with wireway as required for complete system. Where features are not indicated, select to fulfill wiring requirements and comply with applicable provisions of NEC. Wireway covers shall be hinged type.
- C. Surface Metal Raceways and Fittings: UL 5, two-piece steel, totally enclosed. Snap cover type with wiring devices, sizes and channels as indicated. Wiremold, or approved equal.
- Type a: Two section, steel, approximately 7/8 inch x 1 1/4 inch wide, with 20 amp, 125V, specification grade grounding surge protection receptacles 2'-6" on centers, alternating circuits. Provide with Ivory paintable finish.

2.3 ELECTRICAL OUTLET BOXES AND FITTINGS

- A. Interior Outlet Boxes: UL 514A, provide galvanized flat rolled sheet steel interior outlet wiring boxes, flush mounted of type, shapes and sizes, including box depths, to suit each respective location and installation; construct with stamped knockouts in back and sides, and with threaded screw holes with corrosion-resistant screws for securing box covers and wiring devices. Provide feraloy cast outlet boxes where surface mounted with threaded conduit hubs to suit each respective location and installation.
- B. Weatherproof Outlet Boxes: Provide corrosion-resistant cast metal weatherproof outlet wiring boxes, of types, shapes and sizes, with threaded conduit ends, cast metal face plates with spring-hinged waterproof caps suitably configured for each application, including faceplate gaskets and corrosion-resistant fasteners. Weatherproof while in operation.
- C. Cast-Iron Floor Boxes: Fully adjustable, waterproof, with threaded raceway entrances, adjusting rings, gaskets, and brass floor plates. Provide multi-section boxes with individual screw type brass section covers, barrier between compartments and provide for a duplex receptacle under one or more of the covers. Telephone outlets shall have provisions to accommodate 10-wire telephone terminal block. Provide gaskets where required to ensure watertight installation. Provide trim suitable for floor conditions.

2.4 WIRING DEVICES

- A. General: Provide factory-fabricated wiring devices, in types, colors and electrical ratings for applications indicated and complying with NEMA Standards Publication No. WD 1. Where types and grades are not indicated, provide proper selection as determined by installer to fulfill wiring requirements, and comply with NEC and NEMA standards for wiring devices. Provide receptacles with isolated ground and/or surge protection where indicated.
- B. Receptacles:
- Hospital Grade Duplex: UL 498, provide duplex heavy duty type receptacles, 2-pole, 3-wire grounding, with green hexagonal equipment ground screw, ground terminals and poles internally connected to mounting yoke, 20-amperes, 125 volt, ivory nylon face with metal plaster ears, side wiring, NEMA Configuration 5-20R, unless otherwise indicated.
 - Provide with cast aluminum weatherproof cover where indicated to be WP while in operation.
- C. Switches:
- Snap: UL 20, provide general duty flush single-pole toggle switches, 20-amperes, 120-277 volts AC only, with mounting yoke insulated from mechanism, equip with plaster ears, ivory switch handle and side wired screw terminals. Single Three-way and Four-way as indicated on drawings.
 - Motion Sensing, Ceiling Mounted: Provide dual technology ultrasonic and passive infrared or microphonic and passive infrared motion detector, manual off switch, 0 to 4800 watt fluorescent switching capacity, 277 volts AC, 360 sensing coverage, six to 15 minute off time delay, LED walk test indicator, bypass switch, suitable for use in classrooms, 5_year warranty, UL listed, Universal Energy Control (UNENCO) Switchomatic Coordinate with connected wattage and type of room light fixtures.
- D. Wiring Device Accessories:
- Wall Plates: Provide UL listed, one-piece device plates for outlets and fittings to fit the device installed. For flush-mounted outlets on finished walls, provide white switch and outlet plates of types, sizes and with ganging and cutouts as indicated. Install with metal screws for securing plates to devices; screw heads colored to match finish of plate.
 - For surface mounted boxes, provide feraloy cast outlet plates on all outlet boxes, type suitable for wiring device installed in box.
 - Provide plate with engraved legend where indicated.

2.5 SAFETY AND DISCONNECT SWITCHES

- A. General: UL 98, NEMA KS1, provide surface-mounted, sheet-steel enclosed switches, of types, sizes and electrical characteristics indicated; 3-blades, 4-wire with amperage rating as required, 60 hertz and visible blades with door in open position. Provide with safety handle which is easily recognizable and is capable of being padlocked in the open position and operating mechanism for quick-make and quick-break. Current carrying parts of high-conductivity copper, with silver-tungsten type switch contacts. Provide NEMA 1 type enclosures indoors and NEMA 3R type enclosures with raintight hubs outdoors.
- B. Provide General Duty Type: 240 volts AC, Type GD. Heavy Duty Type: 600 volts AC.
- C. Switches used as motor disconnect means shall be horsepower rated. Fused switches shall utilize Class R fuseholder and fuses unless indicated otherwise or recommended by equipment manufacturer.

2.6 ELECTRICAL GROUNDING AND BONDING EQUIPMENT

- A. General: UL 467. Provide grounding products of types indicated and of sizes and ratings as required by NEC. Provide all material required including but not necessarily limited to, cable/wire, connectors, terminals (solderless lugs), grounding rods/electrodes, bonding jumper braid and other items and accessories needed for a complete installation. Where more than one type meets indicated requirements, selection is installer's option. Where materials or components are not otherwise indicated, provide products complying with NEC, and established industry standards.
- B. Electrical Grounding Conductors: Unless otherwise indicated, provide electrical grounding conductors for grounding connections matching power supply wiring materials except bare or green insulation and sized according to NEC. Equipment grounding conductors shall have green insulation. Solid conductors shall comply with ASTM B-3, stranded conductors with ASTM B-8.
- C. Grounding Connectors: Provide listed and labeled grounding connectors for the required materials. Provide high-conductivity plated pressure connector units or exothermic welded connections.

2.7 COMBINATION MOTOR CONTROLLERS

- A. General: Motor circuit protector; molded-case circuit-type breaker type with magnetic-only trip element calibrated to coordinate with the actual locked-rotor current of the connected motor and the controller overload relays. Provide breakers that are factory assembled with the controller, interlocked with unit cover or door, and arranged to disconnect the controller. Provide motor circuit-protectors with field-adjustable trip elements.

2.8 LIGHTING FIXTURES

- A. Provide lighting fixtures of sizes, types, and ratings indicated in lighting fixture schedule

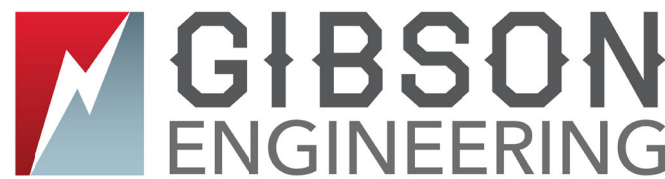
- B. Wiring: Provide electrical wiring within fixture suitable for connecting to branch circuit.
- NEC Type AF for 120 volt, minimum No. 18 AWG.
 - NEC Type SF_2 for 277 volt, minimum No. 18 AWG.

2.9 TIME CONTROLLED SWITCHES

- D. Provide electrically operated time controlled maintained contact switches with 24_hour dials capable of periodically and automatically switching mechanically held or electrically held contactors ON and OFF. Select switches which permit selection of from 1 to 7 ON_OFF operations each day; with coil ratings of 120 volts, 60 Hz, and with DPDT switch. Provide flush mount enclosure, NEMA Type 1, with side hinged door and lock, mounting holes and knockouts. Provide timing switch with manual circuit by_pass switch, 10 hour reserve power, and separate grounding terminal. Finish enclosure with manufacturer's standard gray finish.

2.10 MOTION DETECTORS

- A. Indoor Motion Detectors: Provide passive infrared motion sensor to operate lights on detection of occupancy, 120/277 volts, field adjustable.
- B. Outdoor Motion Detectors: Passive infrared motion sensor in weatherproof enclosure with adjustable digital sensitivity and time delay and isolated SPDT relay contact. Provide unit suitable for operation at temperatures as low as -40F. Provide adjustable mounting bracket.

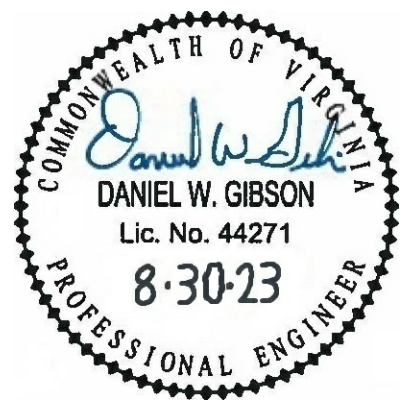


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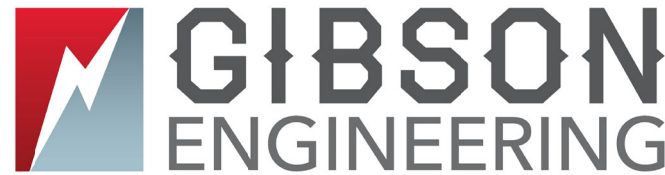
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SALEM COURTHOUSE JURY ROOM
RENOVATION
ELECTRICAL SPECIFICATIONS

2E CALHOUN ST
SALEM, VA 24153

DRAWN BY DWG
DESIGNED BY DWG
CHECKED BY
DATE 08/30/2023
SCALE AS INDICATED
REVISIONS



2100 LUBNA DR
CHRISTIANSBURG VA 24073
P. 540.998.6069

E3.2
PROJECT NO 03220058.00

INSTALLATION
PART 3 - INSTALLATION

3.1 General

- A. Verify final locations for rough_in with field measurements and with the requirements of the actual equipment to be connected.
- B. Rough_in for owner furnished equipment to make equipment operate as intended, including providing miscellaneous wiring items.
- C. Adjust operating mechanisms for free mechanical movement. Clean interior and exterior using manufacturer's approved methods and materials.
- D. Touch-up scratched or marred surfaces to match original finish.
- E. In general, perform cutting and patching as necessary. Exercise care where cutting, channeling, chasing or drilling floors, walls, partitions, ceilings or other surfaces for installation of electrical work.
- F. Patch finished surfaces and building components using new materials specified for the original installation and experienced installers. Installers' qualifications refer to the materials and methods required for the surface and building components being patched.

3.2 CABLE, WIRE AND CONNECTORS

- A. Provide insulated conductors installed in conduit, except where specifically indicated or specified otherwise or required by NEC to be installed otherwise. Provide insulated equipment grounding conductor in feeder and branch circuits, including lighting circuits. Grounding conductor shall be separate from electrical system neutral conductor.
- B. Coordinate cable and wire installation with electrical raceway and equipment installation. Conductor sizes indicated are copper. Pull conductors together where more than one is being installed. Use pulling means and lubricant that will not damage conductor or raceway. Use splice and tap connectors which are compatible with conductor material, and only in accessible junction, pull or outlet boxes.
- C. Tighten electrical connectors and terminals, including screws and bolts, in accordance with manufacturer's published torque tightening values. Where manufacturer's torquing requirements are not indicated, tighten connectors and terminals to comply with tightening torques specified in UL 486A.

3.2 ELECTRICAL RACEWAYS

- A. Provide with complete electrical raceway system before installing conductors within raceways. Provide support as required by NEC but within 1 foot of a change in direction or connection to an enclosure, cover ends of empty conduit to prevent entry of debris during rough-in, provide bonding type locknuts at boxes. Conceal conduit, unless indicated otherwise within finished walls, ceilings and floors. Run exposed conduits parallel or perpendicular to the building structure, close to the ceiling or beams. Keep raceways at least 6 inches away from parallel runs of flues, steam, and hot water pipes.
- B. Use the following wiring methods:
 - a. Outdoors:
 - i. Intermediate metal conduit
 - ii. Rigid metal conduit
 - iii. Liquid-tight flexible metal conduit
 - b. Indoors:
 - i. Electrical metallic tubing
 - ii. Flexible metal conduit
 - iii. Rigid metal conduit (where exposed and subject to damage)
- C. Use raceway fittings that are of types compatible with the associated raceway and suitable for the use and location. For intermediate steel conduit, use threaded rigid steel conduit fittings except as otherwise indicated.
- D. Run exposed, parallel, or banked raceways together. Make bends in parallel or banked runs from the same center line so that the bends are parallel. Factory elbows may be used in banked runs only where they can be installed parallel. This requires that there be a change in the plane of the run such as from wall to ceiling and that the raceways be of the same size. In other cases provide field bends for parallel raceways.
- E. Install pull wires in empty raceways. Use No. 14 AWG zinc-coated steel or monofilament plastic line having not less than 200-lb. tensile strength. Leave not less than 12 inches of slack at each end of the pull wire.
- F. Flexible Connections: Use short length (maximum of 6 ft.) of flexible conduit for recessed and semirecessed lighting fixtures, for equipment subject to vibration, noise transmission, or movement; and for all motors. Use liquid-tight flexible conduit in wet locations. Install separate ground conductor across flexible connections.
- G. Surface Metal Raceway: Install to walls, cabinets, and ceilings as recommended by equipment manufacturer with fasteners suitable for the material to which the surface metal raceway is being attached. Install a separate green ground conductor in raceway from the junction box supplying the raceway to receptacle or fixture ground terminals. Provide as an integral part or install wiring devices as indicated. Make cuts and other modifications with factory cuts and other modifications with factory furnished tools specifically designed for the purpose.

3.3 ELECTRICAL BOXES AND FITTINGS

- A. Provide weatherproof outlet boxes for interior and exterior locations exposed to moisture, flush mounted boxes for connection to concealed conduit and pull boxes as required for installation of conductors. Sizes shall be adequate to meet NEC volume requirements, but not smaller than sizes indicated. Remove knockouts only as required and plug unused openings.
- B. Fasten boxes rigidly to substrate or structural surfaces to which they are to be mounted, or solidly embed electrical boxes in concrete or masonry.

3.4 WIRING DEVICES

- A. Install wiring devices in clean outlets after wiring has been installed. Do not install plates and cover installed wiring devices until painting is complete.
- B. Ground all wiring devices unless indicated otherwise. Test wiring devices for correct polarity, proper ground and electrical continuity.
- C. Install covers and device plates with edges in continuous contact with finished wall surfaces without use of mats or similar devices. Plaster or caulking used as a filling to repair openings around outlets shall not be applied without removing the cover or device plate. Plates installed in wet areas shall be gasketed.

3.5 SAFETY AND DISCONNECT SWITCHES

- A. Install disconnect switches used for motor-driven equipment within sight of the controller and motor and not more than 50 feet from the controller and motor unless indicated otherwise.
- B. Provide an electrical ground for all disconnect switches.
- C. Test all switches for proper operation by operating them energized, but without load for six opening/closing cycles. Inspect switch and correct deficiencies, then retest to demonstrate compliance.

3.6 ELECTRICAL GROUNDING EQUIPMENT

- A. Install electrical grounding systems where shown, in accordance with applicable portions of National Electrical Code, **NECA 331-2014 "Standard for Building and Service Entrance Grounding and Bonding,"** and in accordance with recognized industry practices to ensure that products comply with requirements and serve intended functions.
- B. Provide separate grounding conductor with wiring in all raceways.
- C. Provide grounding electrode conductor and connect to reinforcing steel in foundation footing where indicated.
- D. Install clamp-on connectors only on thoroughly cleaned metal contact surfaces, to ensure electrical conductivity and circuit integrity.

3.7 LIGHTING FIXTURES

- A. General: Install lighting fixtures of types indicated, where shown and at indicated heights, in accordance with lighting fixture manufacturer's written instructions and with recognized industry practices. Comply with NEMA standards and requirements of National Electrical Code pertaining to installation of lighting fixtures and with applicable portions of NECA's "Standards of Installation".
- B. Fasten surfaced fluorescent fixtures to suspended ceiling system near corner of each unit. Bolt fixture to main ceiling supports with stud_clips minimum 1/2_20. Support fixtures weighing in excess of 56 pounds directly from the building structure. Recessed and semi_recessed fixtures may be supported from suspended ceiling support system ceiling tees if the ceiling system support wires are provided at a minimum of four wires per fixture and located not more than 6 inches from each corner of each fixture. In addition, provide support clips securely fastened to ceiling grid members at or near corner of each recessed fixture.
- C. Secure pendant mounted fluorescent fixtures via outlet box directly to building structure with approved bolting and clamps. Provide each stem or hanger with an approved swivel joint to ensure a continued plumb installation.
- D. Mounting heights indicated are to bottom of ceiling_mounted fixtures and to center of wall mounted fixtures.
- E. Install parking lighting units complete with poles/standards and products as indicated, in accordance with manufacturer's written instructions, applicable requirements of NEC, NESC and NEMA standards, and with recognized industry practices to ensure that roadway and parking area lighting equipment fulfill requirements.
- F. Adjust poles as necessary to provide a permanent plumb vertical position with the bracket arm in proper position for luminaire location. After installation, touch up pole finish with paint furnished by pole manufacturer.
- G. Metal Poles: Provide anchor bases with galvanized steel anchor bolts, threaded at the top end and bent 90 degrees at the bottom end. Provide galvanized nuts, washers, and ornamental covers for anchor bolts. Concrete for anchor bases, polyvinyl chloride (PVC) conduit ells, and ground rods shall be as specified. Thoroughly compact backfill with compacting arranged to prevent any pressure between conductor, jacket, or sheath and the end of the conduit ell.
- H. Install all exit lights lighting units plumb, square and level with walls and ceilings and secure in accordance with manufacturer's written instructions Mounting heights shall be to bottom of unit.
- I. Clean lighting fixtures of dirt and debris upon completion of installation. Protect installed fixtures from damage during remainder of construction period.
- J. Do not install interior fixture lens until construction is complete or protect lens from accumulation of dust and debris.
- K. Adjust all fixtures with adjustable aiming to meet the Architect/Engineer's approval.
- L. Test all lighting fixtures for compliance with intended purpose. Correct malfunctioning or noisy units, then retest to demonstrate compliance.
- M. At date of substantial completion, replace all lamps which are observed to be noticeably dimmed as judged by the Architect/Engineer.
- N. Provide tight equipment grounding connections to comply with tightening torques specified in UL 486A for each lighting fixture.

ITB # 2024-011
CITY OF SALEM COURTHOUSE - JURY ROOM EXPANSION
ATTACHMENT B

CITY OF SALEM COURTHOUSE - JURY ROOM EXPANSION

GENERAL & SUPPLEMENTAL CONDITIONS

1. Definitions
2. Additional Instructions and Detail Drawings
3. Schedules, Reports, and Records
4. Drawings and Specifications
5. Shop Drawings
6. Materials, Services, and Facilities
7. Inspection and Testing
8. Substitutions
9. Patents
10. Surveys, Permits, Regulations
11. Protection of Work, Property, and Persons
12. Supervision by Contractor
13. Changes in the Work
14. Changes in Contract Price, Completion and Liquidated Damages
15. Correction of Work
16. Subsurface Conditions
17. Suspension of Work, Termination and Delay
18. Payments to Contractor
19. Acceptance of Final Payment as Release
20. Insurance
21. Contract Security
22. Assignments
23. Indemnification
24. Separate Contracts
25. Subcontracting
26. Engineer/Architect's Authority
27. Land and Right-of-Ways
28. Guaranty
29. Taxes
30. Clean Up on Completion of Project
31. Work Hours
32. Project Identification Signboard
33. Supplemental Conditions

ITB # 2024-011
CITY OF SALEM COURTHOUSE - JURY ROOM EXPANSION

1. DEFINITIONS

Wherever used in the CONTRACT DOCUMENTS, the following terms shall have the meanings indicate which shall be applicable to both the singular and plural thereof:

- 1.1 ADDENDA - Written or graphic instruments issued prior to the execution of the Agreement, which modify or interpret the CONTRACT DOCUMENTS, DRAWINGS, and SPECIFICATIONS, by additions, clarifications or corrections.
- 1.2 BID - The offer or proposal of the BIDDER submitted on the prescribed form setting forth the prices for the WORK to be performed.
- 1.3 BIDDER - Any person, firm, or corporation submitting a BID for the WORK.
- 1.4 BONDS - Bid, Performance, and Payment Bonds and other instruments of security, furnished by the CONTRACTOR and their surety in accordance with the CONTRACT DOCUMENTS.
- 1.5 CHANGE ORDER - A written order to the CONTRACTOR authorizing an addition, deletion, or revision in the WORK within the general scope of the CONTRACT DOCUMENTS or authorizing an adjustment in the CONTRACT PRICE or CONTRACT TIME.
- 1.6 CITY OF SALEM PROJECT REPRESENTATIVE - The authorized representative of the OWNER who is assigned to the project site or any part thereof.
- 1.7 CONTRACT DOCUMENTS - The contract, including Advertisement for Bids, Information for Bidders, General Conditions, Supplemental General Conditions, BID, Technical Specifications and Special Conditions, Bid Bond, Agreement, Payment Bond, Performance Bond, NOTICE OF AWARD, NOTICE TO PROCEED, CHANGE ORDER, DRAWINGS, SPECIFICATIONS, and ADDENDA.
- 1.8 CONTRACT PRICE - The total monies payable to the CONTRACTOR under the terms and conditions of the CONTRACT DOCUMENTS.
- 1.9 CONTRACT TIME - The number of calendar days stated in the CONTRACT DOCUMENTS for the completion of the WORK.
- 1.10 CONTRACTOR - The persons, firm, or corporation with whom the OWNER has executed the Agreement.
- 1.11 DRAWINGS - The part of the CONTRACT DOCUMENTS, which show the characteristics and scope of the WORK to be performed and which have been prepared or approved by the ENGINEER/ARCHITECT.
- 1.12 ENGINEER/ARCHITECT - The City of Salem person, firm, or corporation designated by the OWNER to supervise the WORK and/or administer the CONTRACT DOCUMENTS.
- 1.13 FIELD ORDER - A written order effecting a change in the WORK not involving an adjustment in the CONTRACT PRICE or an extension of the CONTRACT TIME, issued by the ENGINEER/ARCHITECT to the CONTRACTOR during construction.
- 1.14 FINAL COMPLETION - The date as certified by the ENGINEER/ARCHITECT that the WORK has been completed in accordance with the CONTRACT DOCUMENTS and that

ITB # 2024-011**CITY OF SALEM COURTHOUSE - JURY ROOM EXPANSION**

final payment can be made. FINAL COMPLETIONS includes: 1) submission of Operation & Maintenance Manuals and 2) Record Documents and 3) completion of all punch list items.

- 1.15 NOTICE OF AWARD - The written notice of the acceptance of the BID from the OWNER to the successful BIDDER.
- 1.16 NOTICE TO PROCEED - Written communication issued by the OWNER or authorized agent to the CONTRACTOR authorizing the Contractor to proceed with the WORK and establishing the date of commencement of the WORK.
- 1.17 OWNER – The Council of the City of Salem, Virginia, or their authorized agent.
- 1.18 PROJECT - The undertaking to be performed as provided in the CONTRACT DOCUMENTS.
- 1.19 SHOP DRAWINGS - All drawings, diagrams, illustrations, brochures, schedules, any submittal information for products / materials to be used, and other data, which are prepared by the CONTRACTOR, a SUBCONTRACTOR, manufacturer, SUPPLIER, or distributor, which illustrate how specific portions of the WORK shall be fabricated or installed.
- 1.20 SPECIFICATIONS - A part of the CONTRACT DOCUMENTS consisting of written descriptions of a technical nature of materials, equipment, construction systems, standards and workmanship.
- 1.21 SUBCONTRACTOR - An individual, firm, or corporation having a direct contract with the CONTRACTOR or with any other SUBCONTRACTOR for the performance of a part of the WORK at the site.
- 1.22 SUBSTANTIAL COMPLETION - That date as certified by the ENGINEER/ARCHITECT when the construction of the PROJECT or a specified part thereof is sufficiently completed, in accordance with the CONTRACT DOCUMENTS, so that the PROJECT or specified part can be utilized for the purposes for which it is intended. SUBSTANTIAL COMPLETION includes: 1) a Certificate of Occupancy from the Building Official / Authority Having Jurisdiction, 2) delivery of extra stock materials, 3) OWNER training & demonstrations, 4) submittal of CONTRACTOR's internal punch list with identification of incomplete items.
- 1.23 SUPPLEMENTAL GENERAL CONDITIONS - Modifications to General Conditions required for the PROJECT, or such requirements that may be imposed by applicable state laws or required to clarify or amplify the General Conditions.
- 1.24 SUPPLIER - Any person or organization who supplies materials or equipment for the WORK, including that fabricated to a special design, but who does not perform labor at the site.
- 1.25 WORK - All labor necessary to produce the construction required by the CONTRACT DOCUMENTS, and all materials and equipment incorporated or to be incorporated in the PROJECT.
- 1.26 WRITTEN NOTICE - Any notice to any party of the Agreement relative to any part of this Agreement in writing and considered delivered and the service thereof completed, when posted by certified or registered mail to the said party at their last given address or delivered in person to said party or their authorized representative on the Project. Email notification is an acceptable form of WRITTEN NOTICE.

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CITY OF SALEM COURTHOUSE - JURY ROOM EXPANSION

2. ADDITIONAL INSTRUCTIONS AND DETAIL DRAWINGS

- 2.1 The CONTRACTOR may be furnished additional instructions and detail drawings, by the ENGINEER/ARCHITECT, as necessary to carry out the WORK required by the CONTRACT DOCUMENTS.
- 2.2 The additional drawings and instruction thus supplied will become a part of the CONTRACT DOCUMENTS. CONTRACTOR shall carry out the WORK in accordance with the additional detail drawings and instructions.

3. SCHEDULES, REPORTS, AND RECORDS

- 3.1 The CONTRACTOR shall submit to the OWNER such schedule of quantities and costs, progress schedule, payrolls, reports, estimates, records, and other data where applicable as are required by the CONTRACT DOCUMENTS for the WORK to be performed.
- 3.2 Prior to beginning work the CONTRACTOR shall submit a construction progress schedules showing the order in which the CONTRACTOR proposes to carry out the WORK, including dates at which the CONTRACTOR will start the various parts of the WORK, estimated date of completion of each part, and, as applicable:
 - 3.2.1 The dates at which special detail drawings will be required; and
 - 3.2.2 Respective dates for submission of SHOP DRAWINGS, the beginning of manufacture, the testing and the installation of materials, supplies and equipment.
 - 3.2.3 For projects exceeding 90 days the CONTRACTOR shall submit a cost loaded Critical Path Method (CPM) schedule. The cost loaded CPM schedule shall be updated and submitted monthly in conjunction with the CONTRACTOR's payment applications.
- 3.3 CONTRACTOR shall also submit a schedule of payments anticipated to be earned during course of WORK.

4. DRAWINGS AND SPECIFICATIONS

- 4.1 The intent of the DRAWINGS and SPECIFICATIONS is that the CONTRACTOR shall furnish all labor, materials, tools, equipment, and transportation necessary for the proper execution of the WORK in accordance with the CONTRACT DOCUMENTS and all incidental work necessary to complete the PROJECT in an acceptable manner, ready for use, occupancy or operation by the OWNER.
- 4.2 In case of conflict between DRAWINGS and SPECIFICATIONS, **the most stringent shall govern**. Figure dimensions on DRAWINGS shall govern over scale dimensions, and detailed DRAWINGS shall govern over general DRAWINGS.
- 4.3 Any discrepancies found between the DRAWINGS and SPECIFICATIONS and site conditions or any inconsistencies or ambiguities in the DRAWINGS or SPECIFICATIONS shall be immediately reported to the ENGINEER/ARCHITECT, in writing, who shall promptly correct such inconsistencies or ambiguities in writing. WORK done by the CONTRACTOR after their discovery of such discrepancies, inconsistencies, or ambiguities shall be done at the CONTRACTOR'S risk.

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- 5.1 The CONTRACTOR shall provide SHOP DRAWINGS as may be necessary for the execution of the WORK as required by the CONTRACT DOCUMENTS. The ENGINEER/ARCHITECT will have fourteen (14) days to review all SHOP DRAWINGS. The ENGINEER/ARCHITECT'S approval of any SHOP DRAWING shall not release the CONTRACTOR from responsibility for deviations from the CONTRACT DOCUMENTS. The approval of any SHOP DRAWING which substantially deviates from the requirement of the CONTRACT DOCUMENTS shall be evidenced by a CHANGE ORDER. SHOP DRAWINGS, catalog cuts, samples, schedules, etc. shall be submitted for all materials and equipment. On initial submittals, three copies of each item shall be required. Once the review is complete and all corrections made, five copies of the final SHOP DRAWINGS shall be submitted for approval and distribution to all parties. Electronic copies of SHOP DRAWINGS is acceptable and preferred.
- 5.2 When submitted for the ENGINEER/ARCHITECT'S REVIEW, SHOP DRAWINGS shall bear the CONTRACTOR'S certification that he has reviewed, checked, and approved the SHOP DRAWINGS and that they are in conformance with the requirements of the CONTRACT DOCUMENTS.
- 5.3 Portions of the WORK requiring a SHOP DRAWING or sample submission shall not begin until the SHOP DRAWING or submission has been approved by the ENGINEER/ARCHITECT. A copy of each approved SHOP DRAWING and each approved sample shall be kept in good order by the CONTRACTOR at the site and shall be available to the ENGINEER/ARCHITECT.

6. MATERIALS, SERVICES, AND FACILITIES

- 6.1 It is understood that, except as otherwise specifically stated in the CONTRACT DOCUMENTS, the CONTRACTOR shall provide and pay for all materials, labor, tools, equipment, water, light, power, transportation, supervision, temporary construction of any nature, and all other services and facilities of any nature whatsoever necessary to execute, complete, and deliver the WORK within the specified time.
- 6.2 Materials and equipment shall be so stored as to insure the preservation of their quality and fitness for the WORK. Stored materials and equipment to be incorporated in the WORK shall be located so as to facilitate prompt inspection. All equipment, including but not limited to motors, drives, gear reducers, electrical switch gear, heating, ventilation and air conditioning equipment, communication and instrumentation shall be stored in a secure, conditioned, ventilated and dry space. Storage must be approved by the ENGINEER/ARCHITECT. The ENGINEER/ARCHITECT'S approval of the storage plan shall not release the CONTRACTOR from responsibility for the equipment. Equipment that is not suitably stored shall not be paid for until storage requirements are met. The CONTRACTOR shall be required to comply with the manufacturers' requirements concerning lubrication, oil changes, and other special conditions during the storage period and until the equipment is installed, start-up of the equipment is instituted, and the equipment is finally accepted or determined as substantially completed.
- 6.3 Manufactured articles, materials, and equipment shall be applied, installed, connected, erected, used, cleaned and conditioned as directed by the manufacturer.
- 6.4 Materials, supplies, and equipment shall be in accordance with samples submitted by the CONTRACTOR and approved by the ENGINEER/ARCHITECT.

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- 6.5 Materials, supplies, or equipment to be incorporated into the WORK shall not be purchased by the CONTRACTOR or the SUBCONTRACTOR subject to a chattel mortgage or under a conditional sale contract or other agreement by which an interest is retained by the seller.
- 6.6 Materials, supplies, or equipment to be included into the WORK shall be new and unused.

7. INSPECTION AND TESTING

- 7.1 All materials and equipment used in the construction of the PROJECT shall be subject to adequate inspection and testing in accordance with generally accepted standards, as required and defined in the CONTRACT DOCUMENTS.
- 7.2 The OWNER shall provide all inspection, testing services, and special inspections not required by the CONTRACT DOCUMENTS. The CONTRACTOR shall notify the OWNER of the work schedule planned in order that adequate inspection can be made and coordinate with the OWNERS inspection agency. No work may be performed in any day on which it was not scheduled. A minimum of 12 hours' notice of change in work on a scheduled day, the CONTRACTOR will be charged the cost incurred by the OWNER for the lost work of the inspector.
- 7.3 If the CONTRACT DOCUMENTS, laws, ordinances, rules, regulations, or orders of any public authority having jurisdiction require any WORK to specifically be inspected, tested, or approved by someone other than the CONTRACTOR, the CONTRACTOR will give the ENGINEER/ARCHITECT timely notice of readiness.
- 7.4 Inspections, tests, or approvals by the ENGINEER/ARCHITECT, OWNERS inspection agency, or others shall not relieve the CONTRACTOR from their obligations to perform the WORK in accordance with the requirements of the CONTRACT DOCUMENTS.
- 7.5 The ENGINEER/ARCHITECT and other OWNER representatives will at all times have access to the WORK. In addition, authorized representatives and agents of any participating Federal or State agency shall be permitted to inspect all WORK, materials, payrolls, records of personnel, invoices of materials, and other relevant data and records. The CONTRACTOR will provide facilities for such access and observation of the WORK and also for any inspection or testing thereof.
- 7.6 If any WORK is covered contrary to the written instructions of the ENGINEER/ARCHITECT or has been covered prior to required special inspections, or covered prior to rectifying any failed or non-compliant special inspections, it must, if requested by the ENGINEER/ARCHITECT, be uncovered for observation and replaced at the CONTRACTOR'S expense.
- 7.7 If the ENGINEER/ARCHITECT considers it necessary or advisable that covered WORK be inspected or tested by others, the CONTRACTOR, at the ENGINEER/ARCHITECT'S request, will uncover, expose, or otherwise make available for observation, inspection, or testing as the ENGINEER/ARCHITECT may require, that portion of the WORK in question, furnishing all necessary labor, materials, tools, and equipment. If it is found that such WORK is defective, the CONTRACTOR will bear all the expenses of such uncovering, exposure, observation, inspection, and testing and of satisfactory reconstruction. If, however, such WORK is not found to be defective, the CONTRACTOR will be allowed an increase in the CONTRACT PRICE or an extension of the CONTRACT TIME, or both, directly attributable to such uncovering, exposure, observation, inspection, testing, and reconstruction and an appropriate CHANGE ORDER shall be issued.

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8. SUBSTITUTIONS

- 8.1 Whenever a material, article, or piece of equipment is identified on the DRAWINGS or SPECIFICATIONS by reference to brand name or catalogue number, it shall be understood that the first brand name listed in the SPECIFICATIONS is that around which the DRAWINGS have been prepared. Should the second or another brand name be utilized in preparing the BID, the CONTRACTOR shall be responsible for assuring that the costs of all changes, including costs of changes to the CONTRACT DOCUMENTS, required by such use are also included in the BID. The CONTRACTOR may recommend the substitution of a material, article, or piece of equipment of equal substance and function for those referred to in the CONTRACT DOCUMENTS by reference to brand name or catalogue cut, if piece of equipment is of equal substance and function to that specified, the ENGINEER/ARCHITECT may approve its substitution and use by the CONTRACTOR. Any cost differential shall be deductible from the CONTRACT PRICE and the CONTRACT DOCUMENTS shall be appropriately modified by CHANGE ORDER. The CONTRACTOR warrants that if substitutes are approved, no major changes in the function or general design of the PROJECT will result. Incidental changes or extra component parts required to accommodate the substitute will be made by the CONTRACTOR without a change in the CONTRACT PRICE or CONTRACT TIME.
- 8.2 The ENGINEER/ARCHITECT and OWNER shall have final authority in reviewing and determining if any proposed substitution is an acceptable equal product.

9. PATENTS

- 9.1 The CONTRACTOR shall pay all applicable royalties and license fees. The CONTRACTOR shall defend all suits or claims for infringement of patent rights and save the OWNER harmless from loss on account thereof, except that the OWNER shall be responsible for any such loss when a particular process, design, or the product of a particular manufacturer or manufacturers is specified, however, if the CONTRACTOR has reason to believe that the design, process, or product specified is an infringement of a patent, CONTRACTOR shall be responsible for such loss unless CONTRACTOR promptly gives such information to the ENGINEER/ARCHITECT.

10. SURVEYS, PERMITS, REGULATIONS

- 10.1 The OWNER shall furnish all boundary surveys and establish all base lines for locating the principal component parts of the WORK as shown in the CONTRACT DOCUMENTS. From the information provided by the OWNER, unless otherwise specified in the CONTRACT DOCUMENTS, the CONTRACTOR shall develop and make all detail surveys needed for construction such as slope stakes, batter boards, stakes for pile locations, and other working points, lines, elevations, and cut sheets.
- 10.2 The CONTRACTOR shall carefully preserve benchmarks, reference points, and stakes; and, in case of willful or careless destruction, CONTRACTOR shall be charged with the resulting expense and shall be responsible for any mistakes that may be caused by their unnecessary loss or disturbance.
- 10.3 Permits and licenses for the execution of the WORK shall be secured and paid for by the CONTRACTOR unless otherwise stated in the SUPPLEMENTAL GENERAL CONDITIONS. The CONTRACTOR shall give all notices and comply with all laws, ordinances, rules, and regulations bearing on the conduct of the WORK as drawn and

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specified. If the CONTRACTOR observes that the CONTRACT DOCUMENTS are at variance therewith, CONTRACTOR shall promptly notify the ENGINEER/ARCHITECT in writing, and any necessary changes shall be adjusted as provided in Section 13, CHANGES IN THE WORK.

11. PROTECTION OF WORK, PROPERTY, AND PERSONS

- 11.1 The CONTRACTOR will be responsible for initiating, maintaining and supervising all safety precautions and programs in connection with the WORK. The CONTRACTOR will take all necessary precautions for the safety of and will protect the persons who may be affected thereby, protect all the WORK and all materials or equipment to be incorporated therein, whether in storage on or off the site, and protect other property at the site adjacent thereto, including trees, shrubs, lawns, walks, pavements, roadways, structures, and utilities not designated for removal, relocation, or replacement in the course of construction.
- 11.2 The CONTRACTOR will comply with all applicable laws, ordinances, rules, regulations, and orders of any public body having jurisdiction. The CONTRACTOR will erect and maintain, as required by the conditions and progress of the WORK, all necessary safeguards for safety and protection. The CONTRACTOR will notify owners of adjacent utilities when execution of the WORK may affect them. The CONTRACTOR will remedy all damage, injury, or loss to any property caused, directly or indirectly, in whole or in part, by the CONTRACTOR, any SUBCONTRACTOR or anyone directly or indirectly employed by any of them or anyone for whose acts any of them be liable, except damage or loss attributable to the fault of the CONTRACT DOCUMENTS or to the acts or omissions of the OWNER or the ENGINEER/ARCHITECT or anyone employed by either or them or anyone for whose acts either of them may be liable, and not attributable, directly or indirectly, in whole or in part, to the fault or negligence of the CONTRACTOR.
- 11.3 In emergencies affecting safety of persons or the WORK or property at the site or adjacent thereto, CONTRACTOR, without special instruction or authorization from ENGINEER/ARCHITECT or OWNER, shall act to prevent threatened damage, injury, or loss. CONTRACTOR will give OWNER prompt WRITTEN NOTICE of any significant changes in the WORK or deviations from the CONTRACT DOCUMENTS caused thereby, and a CHANGE ORDER shall thereupon be issued covering the changes and deviations involved.

12. SUPERVISION BY CONTRACTOR

- 12.1 CONTRACTOR shall supervise and direct the WORK. CONTRACTOR shall be solely responsible for means, methods, techniques, sequences, and procedures of construction. CONTRACTOR shall employ and maintain on the WORK a qualified supervisor or superintendent who shall have been designated in writing by CONTRACTOR as CONTRACTOR'S representative at the site. Supervisor shall have full authority to act on behalf of CONTRACTOR and all communications given to the supervisor shall be as binding as if given to CONTRACTOR. Supervisor shall be present on the site at all times as required to perform adequate supervision and coordination of the WORK.

13. CHANGES IN THE WORK

- 13.1 The OWNER may at any time, as the need arises, order changes within the scope of the WORK without invalidating the Agreement. If such changes increase or decrease the

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amount due under the CONTRACT DOCUMENTS, or in the time required for performance of the WORK, an equitable adjustment shall be authorized by CHANGE ORDER. The CONTRACTOR shall utilize a CHANGE ORDER form acceptable to the OWNER.

- 13.2 The ENGINEER/ARCHITECT, also, may at any time, by issuing a FIELD ORDER, make changes in the details of the WORK. The CONTRACTOR shall proceed with the performance of any changes in the WORK so ordered by the ENGINEER/ARCHITECT unless the CONTRACTOR believes that such FIELD ORDER entitles him to a change in CONTRACT PRICE or TIME or both, in which event he shall give the ENGINEER/ARCHITECT WRITTEN NOTICE thereof within seven (7) days after the receipt of the ordered change. Thereafter, the CONTRACTOR shall document the basis for the change in CONTRACT PRICE or TIME within thirty (30) days. The CONTRACTOR shall not execute such changes pending the receipt of an executed CHANGE ORDER or further instruction from the OWNER.

14. CHANGES IN CONTRACT PRICE, COMPLETION AND LIQUIDATED DAMAGES

- 14.1 The CONTRACT PRICE may be changed only by a CHANGE ORDER. The value of any WORK covered by a CHANGE ORDER or of any claim for increase or decrease in the CONTRACT PRICE shall be determined by one or more of the following methods in the order of precedence listed below:

- 14.1.1 Unit prices previously approved. Under this method, it is understood that addition to or deletion of quantities of WORK in excess of 25 percent may be cause for review of the agreed unit price.
- 14.1.2 An agreed lump sum. For the negotiation of the agreed lump sum amount, the CONTRACTOR shall furnish the ENGINEER/ARCHITECT a breakdown of all labor, materials, supplies, and equipment utilizing the costing principles described under 14.1.3.
- 14.1.3 The actual cost for labor, direct overhead, materials, supplies, equipment, and other services necessary to complete the WORK. In addition, there shall be added an amount to be agreed upon but not to exceed 15 percent of the actual cost of the WORK to cover the cost of general conditions, overhead and profit. To amplify the items described under 14.1.3, labor shall include the crew foreman but not supervisory, office, or administrative personnel, labor costs shall include taxes, insurance, and actual fringe benefits paid; and, rental rates for equipment owned by the CONTRACTOR shall not exceed 75 percent of Associated Equipment Distributors book rental monthly rates. To costs incurred by SUBCONTRACTORS for changes in the WORK, there shall be an added amount not to exceed 10 percent of the subcontract to cover the cost of general conditions, overhead and profit.

14.2 TIME FOR COMPLETION AND LIQUIDATED DAMAGES

The date of beginning and the time for completion of the WORK are essential conditions of the CONTRACT DOCUMENTS and the WORK embraced shall be commenced on a dated specified in the NOTICE TO PROCEED.

- 14.3 The CONTRACTOR will proceed with the WORK at such rate of progress to insure full completion within the CONTRACT TIME. It is expressly understood and agreed, by and between the CONTRACTOR and the OWNER, that the CONTRACT TIME for the completion of the WORK described herein is a reasonable time, taking into consideration the average climatic and economic conditions and other factors prevailing in the locality of the WORK.

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- 14.4 If the CONTRACTOR shall fail to complete the WORK on or before the date stipulated for SUBSTANTIAL COMPLETION (or such later date as may result from extension of time granted by the OWNER), then the CONTRACTOR will pay to the OWNER the amount of four hundred (\$400.00) per day for liquidated damages as specified in the BID for each calendar day that the CONTRACTOR shall be in default after the time stipulated in the CONTRACT DOCUMENTS.
- 14.5 If the CONTRACTOR shall fail to complete the WORK on or before the date stipulated for FINAL COMPLETION (or such later date as may result from extension of time granted by the OWNER), then the CONTRACTOR will pay to the OWNER the amount of two hundred (\$200.00) per day for liquidated damages as specified in the BID for each calendar day that the CONTRACTOR shall be in default after the time stipulated in the CONTRACT DOCUMENTS.
- 14.6 The CONTRACTOR shall not be charged with liquidated damages or any excess cost when the delay in completion of the WORK is due to the following, and the CONTRACTOR has promptly given WRITTEN NOTICE of such delay to the OWNER or ENGINEER/ARCHITECT.
- 14.6.1 To unforeseeable causes beyond the control and without the fault or negligence of the CONTRACTOR, including but not restricted to, acts of God, or of the public enemy, acts of the OWNER, acts of another CONTRACTOR in the performance of a contract with the OWNER, fires, floods, epidemics, quarantine restrictions, strikes, freight embargoes, and abnormal and unforeseeable weather. Unforeseeable weather shall be documented with data substantiating that weather conditions were not normal for the time period, could not have been reasonably anticipated, and had a negative effect on the scheduled construction.

15. CORRECTION OF WORK

- 15.1 The CONTRACTOR shall promptly remove from the premises all WORK rejected by the ENGINEER/ARCHITECT for failure to comply with the CONTRACT DOCUMENTS, whether incorporated in the construction or not, and the CONTRACTOR shall promptly replace and re-execute the WORK in accordance with the CONTRACT DOCUMENTS and without expense to the OWNER and shall bear the expense of making good all WORK of other CONTRACTORS destroyed or damaged by such removal or replacement.
- 15.2 All removal and replacement WORK shall be done at the CONTRACTOR'S expense. If the CONTRACTOR does not take action to remove such rejected WORK within ten (10) days after receipt of WRITTEN NOTICE, the OWNER may remove such WORK and store the materials at the expense of the CONTRACTOR.

16. SUBSURFACE CONDITIONS

- 16.1 The CONTRACTOR shall promptly, and before such conditions are disturbed, except in the event of any emergency, notify the OWNER by WRITTEN NOTICE of:
- 16.1.1 Subsurface or latent physical conditions at the site differing materially from those ordinarily encountered and generally recognized as inherent in WORK of the character provided for in

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the CONTRACT DOCUMENTS.

16.1.2 Unknown physical conditions at the site, of unusual nature, differing materially from those ordinarily encountered and generally recognized as inherent in WORK of the character provided for in the CONTRACT DOCUMENTS.

16.2 The OWNER shall promptly investigate the conditions, and if the OWNER finds that such conditions do so materially differ and cause an increase or decrease in the cost of, or in the time required for, performance of the WORK, an equitable adjustment shall be made and the CONTRACT DOCUMENTS shall be modified by a CHANGE ORDER. Any claim of the CONTRACTOR for adjustment hereunder shall not be allowed unless he has given the required WRITTEN NOTICE; provided that the OWNER may, if he determines the facts so justify, consider and adjust any such claims asserted before the date of final payment.

17. SUSPENSION OF WORK, TERMINATION AND DELAY

17.1 The OWNER may suspend the WORK or any portion thereof for a period of not more than ninety (90) days or such further time as agreed upon by the CONTRACTOR, by WRITTEN NOTICE to the CONTRACTOR and the ENGINEER/ARCHITECT which notice shall fix the date on which WORK shall be resumed. The CONTRACTOR will resume that WORK on the date so fixed. The CONTRACTOR will be allowed an increase in the CONTRACT PRICE or an extension of the CONTRACT TIME, or both, directly attributable to any suspension.

17.2 If the CONTRACTOR is adjudged a bankrupt or insolvent; or if the CONTRACTOR makes a general assignment for the benefit of CONTRACTOR'S creditors; or if a trustee or receiver is appointed for the CONTRACTOR or for any of the CONTRACTOR'S property; or if the CONTRACTOR'S files a petition to take advantage of any debtor's act; or to reorganize under the bankruptcy or applicable laws; or if the CONTRACTOR repeatedly fails to supply sufficient skilled workmen or suitable materials or equipment; or if the CONTRACTOR repeatedly fails to make prompt payments to SUBCONTRACTORS or for labor, materials, or equipment; or if the CONTRACTOR disregards laws, ordinances, rules, regulations, or orders of any public body having jurisdiction of the WORK; or if the CONTRACTOR disregards the authority of the ENGINEER/ARCHITECT; or if the CONTRACTOR otherwise violates any provision of the CONTRACT DOCUMENTS, then the OWNER may, without prejudice to any other right or remedy and after giving the CONTRACTOR and their surety a minimum of ten (10) days from delivery of a WRITTEN NOTICE, terminate the services of the CONTRACTOR and take possession of the PROJECT and of all materials, equipment, tools, construction equipment, and machinery thereon owned by the CONTRACTOR, and finish the WORK by whatever method the OWNER may deem expedient. In such case the CONTRACTOR shall not be entitled to receive any further payment until the WORK is finished. If the unpaid balance of the CONTRACT PRICE exceeds the direct and indirect costs of completing the PROJECT, including compensation for additional professional services, such excess SHALL BE PAID TO THE CONTRACTOR. If such costs exceed such unpaid balance, the CONTRACTOR will pay the difference to the OWNER. Such costs incurred by the OWNER will be determined by the ENGINEER/ARCHITECT and incorporated in a CHANGE ORDER.

17.3 Where the CONTRACTOR'S services have been so terminated by the OWNER, said termination shall not affect any right of the OWNER against the CONTRACTOR then existing or which may thereafter accrue. Any retention or payment of monies by the OWNER due the CONTRACTOR will not release the CONTRACTOR from compliance

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with the CONTRACT DOCUMENTS.

- 17.4 After ten (10) days from delivery of a WRITTEN NOTICE to the CONTRACTOR and the ENGINEER/ARCHITECT, the OWNER may, without cause and without prejudice to any other right or remedy, elect to abandon the PROJECT and terminate the CONTRACT. In such case, the CONTRACTOR shall be paid for all WORK executed and any expense sustained plus reasonable profit.
- 17.5 If, through no act or fault of the CONTRACTOR, the WORK is suspended for a period of more than ninety (90) days by the OWNER; or under any order of court or other public authority; or the ENGINEER/ARCHITECT fails to act on any request for payment within thirty (30) days after it is submitted; or the OWNER fails to pay the CONTRACTOR substantially the sum approved by the ENGINEER/ARCHITECT or awarded by arbitrators within thirty (30) days of its approval and presentation, then the CONTRACTOR may, after ten (10) days from delivery of a WRITTEN NOTICE to the OWNER and the ENGINEER/ARCHITECT, terminate the CONTRACT and recover from the OWNER payment for all WORK executed and all expenses sustained. In addition and in lieu of terminating the CONTRACT, if the ENGINEER/ARCHITECT has failed to act on a request for payment or if the OWNER has failed to make any payment as aforesaid, the CONTRACTOR may upon ten (10) days WRITTEN NOTICE to the OWNER and the ENGINEER/ARCHITECT stop the WORK until he has paid all amounts then due, in which event and upon resumption of the WORK, CHANGE ORDERS shall be issued for adjusting the CONTRACT PRICE or extending the CONTRACT TIME or both to compensate for the costs and delays attributable to the stoppage of the WORK.
- 17.6 If the performance of all or any portion of the WORK is suspended, delayed, or interrupted as a result of a failure of the OWNER or ENGINEER/ARCHITECT to act within the time specified in the CONTRACT DOCUMENTS, or if no time is specified, within a reasonable time, an adjustment in the CONTRACT shall be made to compensate the CONTRACTOR for the costs and delays necessarily caused by the failure of the OWNER or ENGINEER/ARCHITECT.

18. PAYMENTS TO CONTRACTOR

- 18.1 At least ten (10) days before the first pay application the CONTRACTOR shall submit a Schedule of Values for approval by the ENGINEER/ARCHITECT.
- 18.2 At least ten (10) days before each progress payment falls due (but not more often than once a month), the CONTRACTOR will submit to the ENGINEER/ARCHITECT an updated project schedule. For projects expected to exceed 90 days this shall be a cost loaded CPM schedule.
- 18.3 At least ten (10) days before each progress payment falls due (but not more often than once a month), the CONTRACTOR will submit to the ENGINEER/ARCHITECT a partial payment estimate filled out and signed by the CONTRACTOR covering the WORK performed during the period covered by the partial payment estimate and supported by such data as the ENGINEER/ARCHITECT may reasonably require. As approved in advance by the OWNER if payment is requested on the basis of materials and equipment not incorporated in the WORK but delivered and suitably stored at or near the site, the partial payment estimate shall also be accompanied by such supporting data, satisfactory to the OWNER, as will establish the OWNER'S title to the material and equipment and protect their interest therein, including applicable insurance. The ENGINEER/ARCHITECT will, within ten (10) days after receipt of each partial payment estimate, either indicate in writing their approval of payment and

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present the partial payment estimate to the OWNER, or return the partial payment estimate to the CONTRACTOR indicating in writing their reasons for refusing to approve payment. In the latter case, the CONTRACTOR may make the necessary corrections and resubmit the partial payment estimate. The OWNER will, within twenty (20) days of presentation to him of an approved partial payment estimate, pay the CONTRACTOR a progress payment on the basis of the approved partial payment estimate.

- 18.4 If approved in advance by the OWNER the request for payment may also include an allowance for the cost of such major materials and equipment, which are suitably stored either at or near the site.
- 18.5 Prior to SUBSTANTIAL COMPLETION, the OWNER, with the approval of the ENGINEER/ARCHITECT and with the concurrence of the CONTRACTOR, may use any completed or SUBSTANTIALLY COMPLETED portions of the WORK. Such use shall not constitute an acceptance of such portions of the WORK.
- 18.6 The OWNER shall have the right to enter the premises for the purpose of doing work not covered by the CONTRACT DOCUMENTS. This provision shall not be construed as relieving the CONTRACTOR of the sole responsibility for the care and protection of the WORK, or the restoration of any damaged WORK except such as may be caused by agents or employees of the OWNER.
- 18.7 Upon completion and acceptance of the WORK, the ENGINEER/ARCHITECT shall issue a certificate attached to the final payment request that the WORK has been accepted by him under the conditions of the CONTRACT DOCUMENTS. The entire balance found to be due the CONTRACTOR, including the retained percentages, but except such sums as may be lawfully retained by the OWNER, shall be paid to the CONTRACTOR within thirty (30) days of the completion and acceptance of the WORK.
- 18.8 The CONTRACTOR will indemnify and save the OWNER or the OWNER'S agents harmless from all claims growing out of the lawful demands of SUBCONTRACTORS, laborers, workmen, mechanics, material men, and furnishers of machinery and parts thereof, equipment, tools, and all supplies, incurred in the furtherance of the performance of the WORK. The CONTRACTOR shall, at the OWNER'S request, furnish satisfactory evidence that all obligations of the nature designated above have been paid, discharged, or waived. If the CONTRACTOR fails to do so, the OWNER may, after having notified the CONTRACTOR, either pay unpaid bills or withhold from the CONTRACTOR'S unpaid compensation a sum of money deemed reasonable sufficient to pay any and all such lawful claims until satisfactory evidence is furnished that all liabilities have been fully discharged whereupon payment to the CONTRACTOR shall be resumed, in accordance with the terms of the CONTRACT DOCUMENTS, but in no event shall the provisions of this sentence be construed to impose any obligations upon the OWNER to either the CONTRACTOR, their Surety, or any third party.

In paying any unpaid bills of the CONTRACTOR, any payment so made by the OWNER shall be considered as a payment made under the CONTRACT DOCUMENTS by the OWNER to the CONTRACTOR and the OWNER shall not be liable to the CONTRACTOR for any such payments made in good faith.

- 18.9 If the OWNER fails to make payment thirty (30) days after approval by the ENGINEER/ARCHITECT, in addition to other remedies available to the CONTRACTOR, there shall be added to each such payment interest at the maximum legal rate commencing on the first day after said payment is due and continuing until

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the payment is received by the CONTRACTOR.

19. ACCEPTANCE OF FINAL PAYMENT AS RELEASE

- 19.1 The acceptance by the CONTRACTOR of final payment shall be and shall operate as a release to the OWNER of all claims and liability to the CONTRACTOR other than claims in stated amounts as may be specifically excepted by the CONTRACTOR for all things done or furnished in connection with this WORK and for every act and neglect of the OWNER and others relating to or arising out of this WORK. Any payment, however, final or otherwise shall not release the CONTRACTOR or their sureties from any obligations under the CONTRACT DOCUMENTS or the PERFORMANCE BOND and PAYMENT BONDS.

20. INSURANCE

- 20.1 The CONTRACTOR shall purchase and maintain such insurance as will protect him from claims set forth below which may arise out of or result from the CONTRACTOR'S execution of the WORK, whether such execution be by himself or by any SUBCONTRACTOR or by anyone directly or indirectly employed by any of them, or by anyone for whose acts any of them may be liable:
- 20.1.1 Claims under workmen's compensation, disability benefit and other similar employee benefit acts; and
 - 20.1.2 Claims for damages because of bodily injury, occupational sickness or disease, or death of their employees; and
 - 20.1.3 Claims for damages because of bodily injury, sickness liability coverage which are sustained (1) by any person as a result of an offense directly or indirectly related to the employment of such person by the CONTRACTOR, or (2) by any other person; and
 - 20.1.4 Claims for damages because of bodily injury, sickness, or disease, or death of any person other than their employees; and
 - 20.1.5 Claims for damages because of injury in or destruction of tangible property, including loss of use resulting therefrom.
- 20.2 Certificates of insurance acceptable to the OWNER shall be filed with the OWNER prior to commencement of the WORK. These certificates shall contain a provision that coverages afforded under the policies will not be canceled unless at least fifteen (15) days prior WRITTEN NOTICE has been given to the OWNER. All policies shall name the OWNER and the ENGINEER/ARCHITECT as additional insureds.
- 20.3 The CONTRACTOR shall procure and maintain, at their own expense, during the CONTRACT TIME, liability insurance as hereinafter specified:
- 20.3.1 CONTRACTOR'S General Public Liability and Property Damage Insurance including vehicle coverage issued to the CONTRACTOR and protecting him from all claims for personal injury, including death, and all claims for destruction of or damage to property, arising out of or in connection with any operations under the CONTRACT DOCUMENTS, whether such operations be by himself or by any SUBCONTRACTOR under him, or anyone directly or indirectly employed by the CONTRACTOR or by a SUBCONTRACTOR

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under him. Insurance shall be written with a limit of liability of not less than \$1,000,000 for all damages arising out of bodily injury, including death, at any time resulting there from, sustained by any one person in any one accident; and a limit of liability of not less than \$2,000,000 aggregate for any such damages sustained by two or more persons in any one accident. Insurance shall be written with a limit of liability of not less than \$1,000,000 for all property damage sustained by any one person in any one accident; and a limit of liability of not less than \$2,000,000 aggregate for any such damage sustained by two or more persons in any one accident.

- 20.3.2 The CONTRACTOR shall acquire and maintain Fire and Extended Coverage insurance upon the PROJECT to the full insurable value thereof for the benefit of the OWNER, the CONTRACTOR, and the SUBCONTRACTORS as their interest may appear. This provision shall in no way release the CONTRACTOR or CONTRACTOR'S surety from obligations under the CONTRACT DOCUMENTS to fully complete the PROJECT.
- 20.4 The CONTRACTOR shall procure and maintain, at their own expense, during the CONTRACT TIME, in accordance with the provisions of the laws of the state in which the WORK is performed. Workmen's Compensation Insurance, including occupational disease provisions, for all of their employees at the site of the PROJECT and in case any WORK is sublet, the CONTRACTOR shall require each SUBCONTRACTOR similarly to provide Workmen's Compensation Insurance, including occupational disease provisions for all of the latter's employees unless such employees are covered by the protection afforded by the CONTRACTOR. In case any class of employees engaged in hazardous WORK under this CONTRACT at the site of the PROJECT is not protected under Workmen's Compensation statute, the CONTRACTOR shall provide, and shall cause each SUBCONTRACTOR to provide, adequate and suitable insurance for the protection of their employees not otherwise protected.
- 20.5 The CONTRACTOR shall secure "All Risk" type Builder's Risk Insurance for WORK to be performed. Unless specifically authorized by the OWNER, the amount of such insurance shall not be less than the CONTRACT PRICE totaled in the BID. The policy shall cover not less than the losses due to fire, explosion, hail, lightening, vandalism, malicious mischief, wind, flood, collapse, riot, aircraft, and smoke during the CONTRACT TIME, and until the WORK is accepted by the OWNER. The policy shall name as the insured the CONTRACTOR, the ENGINEER/ARCHITECT, and the OWNER.

21. CONTRACT SECURITY

- 21.1 The CONTRACTOR shall within ten (10) days after the receipt of the NOTICE OF AWARD furnish the OWNER with a Performance Bond and Payment Bond in penal sums equal to the amount of the CONTRACT PRICE, conditioned upon the performance by the CONTRACTOR of all undertakings, covenants, terms, conditions, and agreements of the CONTRACT DOCUMENTS, and upon the prompt payment by the CONTRACTOR to all persons supplying labor and materials in the execution of the WORK provided by the CONTRACT DOCUMENTS. Such BONDS shall be executed by the CONTRACTOR and a corporate bonding company licensed to transact such business in the State of Virginia and named on the current list of "Surety Companies Acceptable on Federal Bonds" as published in the Treasury Department Circular Number 570. The expense of these BONDS shall be borne by the CONTRACTOR. If at any time a surety on any such BOND is declared a bankrupt or loses its right to do business in Virginia or is removed from the list of Surety Companies accepted on Federal BONDS, CONTRACTOR shall within ten (10) days after notice

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from the OWNER to do so, substitute an acceptable BOND (or BONDS) in such form and sum and signed by such other surety or sureties as may be satisfactory to the OWNER. The premiums on such BOND shall be paid by the CONTRACTOR. No further payments shall be deemed due nor shall be made until the new surety or sureties shall have furnished an acceptable BOND to the OWNER. The Performance Bond shall remain in full force and effect through the guarantee period.

22. ASSIGNMENTS

- 22.1 Neither the CONTRACTOR nor the OWNER shall sell, transfer, assign, or otherwise dispose of the CONTRACT or any portion thereof, or of their right, title, or interest therein, or their obligations thereunder, without written consent of the other party.

23. INDEMNIFICATION

- 23.1 The CONTRACTOR will indemnify and hold harmless the OWNER and the ENGINEER/ARCHITECT and their agents and employees from and against all claims, damages, losses, and expenses including attorney's fees arising out of or resulting from the performance of the WORK, provided that such claims, damage, loss, or expense is attributable to bodily injury, sickness, disease, or death, or to injury to or destruction of tangible property including the loss of use resulting there from; and is caused in whole or in part by any negligent or willful act or omission of the CONTRACTOR, and SUBCONTRACTOR, anyone directly or indirectly employed by any of them or anyone for whose acts any of them may be liable.
- 23.2 In any and all claims against the OWNER or the ENGINEER/ARCHITECT, or any of their agents or employees, by any employee of the CONTRACTOR, any SUBCONTRACTOR, anyone directly or indirectly employed by any of them, or anyone for whose acts any of them may be liable, the indemnification obligation shall not be limited in any way by any limitation on the amount or type of damages, compensation or benefits payable by or for the CONTRACTOR or any SUBCONTRACTOR under workmen's compensation acts, disability benefit acts or other employee benefits acts.
- 23.3 The obligation of the CONTRACTOR under this paragraph shall not extend to the liability of the ENGINEER/ARCHITECT or ENGINEER/ARCHITECT'S employees arising out of the preparation or approval of maps, DRAWINGS, opinions, reports, surveys, CHANGE ORDERS, designs or SPECIFICATIONS.

24. SEPARATE CONTRACTS

- 24.1 The OWNER reserves the right to let other contracts in connection with this PROJECT. The CONTRACTOR shall afford other CONTRACTORS reasonable opportunity for the introduction and storage of their materials and the execution of their WORK, and shall properly connect and coordinate the CONTRACTOR'S WORK with theirs. If the proper execution or results of any part of the CONTRACTOR'S WORK depends upon the WORK of any other CONTRACTOR, the CONTRACTOR shall inspect and promptly report to the ENGINEER/ARCHITECT any defects in such WORK that render it unsuitable for such proper execution and results.
- 24.2 The OWNER may perform additional WORK related to the PROJECT, or OWNER may let other contracts containing provisions similar to these. The CONTRACTOR will afford the other CONTRACTORS who are parties to such Contracts (or the OWNER, if the CONTRACTOR is performing the additional WORK), reasonable opportunity for the introduction and storage of materials and equipment and the execution of WORK and shall properly connect and coordinate the CONTRACTOR'S WORK with theirs.

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- 24.3 If the performance of additional WORK by other CONTRACTORS or the OWNER is not noted in the CONTRACT DOCUMENTS prior to the execution of the CONTRACT, WRITTEN NOTICE thereof shall be given to the CONTRACTOR prior to starting any such additional WORK. If the CONTRACTOR believes that the performance of such additional WORK by the OWNER or others involves the CONTRACTOR in additional expense or entitles the CONTRACTOR to an extension of the CONTRACT TIME, the CONTRACTOR may make a claim therefore as provided in Sections 13 and 14.

25. SUBCONTRACTING

- 25.1 The CONTRACTOR may utilize the services of specialty SUBCONTRACTORS on those parts of the WORK which, under normal contracting practices, are performed by specialty CONTRACTORS.
- 25.2 The CONTRACTOR shall be fully responsible to the OWNER for the acts and omissions of any SUBCONTRACTORS, and of persons either directly or indirectly employed by them, as the CONTRACTOR is for the acts and omissions of persons directly employed by the CONTRACTOR.
- 25.3 The CONTRACTOR shall cause appropriate provisions to be inserted in all subcontracts relative to the WORK to bind SUBCONTRACTORS to the CONTRACTOR by the terms of the CONTRACT DOCUMENTS insofar as applicable to the WORK of SUBCONTRACTORS and to give the CONTRACTOR the same power as regards terminating any subcontract that the OWNER may exercise over the CONTRACTOR under any provision of the CONTRACT DOCUMENTS.
- 25.4 Nothing contained in the CONTRACT shall create any contractual relation between any SUBCONTRACTOR and the OWNER.

26. ENGINEER/ARCHITECT'S AUTHORITY

- 26.1 The ENGINEER/ARCHITECT shall act as the OWNER'S representative during the construction period. The ENGINEER/ARCHITECT shall decide questions, which may arise as to quality and acceptability of materials furnished and WORK performed. The ENGINEER/ARCHITECT shall interpret the intent of the CONTRACT DOCUMENTS in a fair and unbiased manner. The ENGINEER/ARCHITECT will make visits to the site and determine if the WORK is proceeding in accordance with the CONTRACT DOCUMENTS.
- 26.2 The CONTRACTOR will be held strictly to the intent of the CONTRACT DOCUMENTS in regard to the quality of materials, workmanship and execution of the WORK. Inspections may be made at the factory or fabrication plant of the source of material supply at the ENGINEER/ARCHITECT'S discretion.
- 26.3 The ENGINEER/ARCHITECT will not be responsible for the construction means, controls, techniques, sequences, procedures, or construction safety.
- 26.4 The ENGINEER/ARCHITECT shall promptly make decisions relative to interpretation of the CONTRACT DOCUMENTS.

27. LAND AND RIGHT-OF-WAYS

- 27.1 Prior to issuance of NOTICE TO PROCEED, the OWNER shall obtain all land and

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right-of- ways necessary for carrying out and for the completion of the WORK to be performed pursuant to the CONTRACT DOCUMENTS, unless otherwise mutually agreed.

27.2 The OWNER shall provide to the CONTRACTOR information, which delineates and describes the lands owned and right-of-ways acquired.

27.3 The CONTRACTOR shall provide at CONTRACTOR'S own expense and without liability to the OWNER any additional land and access thereto that the CONTRACTOR may desire for temporary construction facilities, or for storage of materials.

28. GUARANTY

28.1 Unless noted otherwise in the CONTRACT DOCUMENTS the CONTRACTOR shall guarantee all materials and equipment furnished and WORK performed for a period of one (1) year from the date of FINAL ACCEPTANCE. The CONTRACTOR warrants and guarantees for a period of one (1) year from the date of FINAL ACCEPTANCE of the system that the completed system is free from all defects due to faulty materials or workmanship and the CONTRACTOR shall promptly make such corrections as may be necessary by reason of such defects including the repairs of any damage to other parts of the system resulting from such defects.

The OWNER will give notice of observed defects with reasonable promptness. In the event that the CONTRACTOR should fail to make such repairs, adjustments, or other WORK that may be made necessary by such defects, the OWNER may do so and charge the CONTRACTOR the cost thereby incurred. The PERFORMANCE BOND shall remain in full force and effect through the guarantee period.

29. TAXES

29.1 The CONTRACTOR will pay all sales, consumer, use, and other similar taxes required by the law of the place where the WORK is performed.

30. CLEAN UP ON COMPLETION OF PROJECT

30.1 On completion of the WORK covered by any of the sections of this PROJECT, the CONTRACTOR for said section shall clean up the entire premises occupied by their operations, and this area shall be left neat and clean of trash, debris, piles of earth, waste materials or equipment. All surplus materials and equipment, trash, debris, and other foreign matter shall be disposed of as directed by the ENGINEER/ARCHITECT or OWNER. The entire project or sections thereof shall be made ready for the OWNER'S use, and the CONTRACTOR shall assist as may be necessary in placing any equipment furnished under the contract in proper operating condition.

31. WORK HOURS

31.1 Monday through Friday from 7:00 a.m. to 4:30 p.m. and other hours if approved in advance by the OWNER. The CONTRACTOR will coordinate very loud activities with the OWNER that would impact building occupants or Courthouse functions.

32. PROJECT IDENTIFICATION SIGNBOARD

Not required for this project.

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33. SUPPLEMENTAL CONDITIONS

- 33.1 The following additions to, substitutions for, or explanation of the GENERAL CONDITIONS, if any, shall be included as part of these CONTRACT DOCUMENTS. The number utilized refer to those contained in the GENERAL CONDITIONS.

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ATTACHMENT C

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BID FORM

DATED NOVEMBER 7, 2023

The City of Salem reserves the right to add or remove similar, related services and/or items to/from any resulting Contract, as it may deem necessary and appropriate, on an as needed basis.

Bid Form shall include all labor, materials, equipment, tools, and services necessary to complete the work described in this Invitation to Bid and Contract documents.

Owner reserves the right to award a contract on base bid and any combination of alternate numbers for which the Owner determines funds will be available at the time of award.

| | |
|-----------------|----------|
| BASE BID | \$ _____ |
|-----------------|----------|

If Bidder elects to not furnish pricing for alternate numbers below, then Bidder must enter the words "No Bid" or "Not Applicable" under Cost column.

| Alternate Number | Alternate Description | Circle Below | Cost |
|------------------|---|---------------|------|
| Alternate #1 | Alternate Exterior Steel Canopy (see note on sheet T1.02 in Drawings) | ADD OR DEDUCT | \$ |
| Alternate #2 | Alternate HVAC System (see note on sheet T1.02 in Drawings) | ADD OR DEDUCT | \$ |
| Alternate #3 | Alternate Sidewalk Material (see note on sheet T1.02 in Drawings) | ADD OR DEDUCT | \$ |

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BID BOND

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Bid security in the amount of _____
(\$_____) in the form of _____ is submitted
herewith, in accordance with this Invitation to Bid # 2024-011.

If notice of acceptance of this bid is given to the undersigned within thirty (30) days after the date of opening of bids, or any time thereafter before this bid is withdrawn, the undersigned will execute and deliver an agreement in the prescribed form, and furnish the required bonds, within fifteen (15) days after the Agreement has been presented to him for signature.

Contractor

By: _____
(SEAL)

Title: _____

Registered Contractor

Virginia Certificate No. _____

Business Address:

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ATTACHMENT E

SUPPLEMENTAL TERMS AND CONDITIONS

Vendor: The supplemental terms and conditions, which follow, apply to all purchases and are an integral part of each purchase order and/or contract issued by the City of Salem, Virginia unless otherwise specified. Vendors are expected to fully inform themselves of these terms and conditions and failure to do so will be at the vendor's own risk and relief cannot be secured on the plea of ignorance. Subject to the state and local laws and all rules, regulations and limitations imposed by legislation of the federal government.

Entire Agreement: These terms and conditions, any other special conditions and specifications contained in any other documents referenced shall constitute and represent the complete and entire agreement between the Buyer and Seller and supersede all previous communications, either written or verbal with respect to the subject matter of this purchase order.

Contractual Disputes: All claims that may arise under this contract shall be resolved through the procedure set forth in City of Salem's Purchasing Policy and Procedures Manual Section 4007.

Antitrust: By entering into a contract, the Offeror conveys, sells, assigns, and transfers to the City all rights, title and interest in and to all causes of the action it may now or hereafter acquire under the antitrust laws of the United States and the Commonwealth of Virginia, relating to the particular goods or services purchased or acquired by the City under said contract.

License Requirements: All firms having a business location or office in the City of Salem, Virginia are required to be licensed in accordance with the City's Business, Professional and Occupational Licensing (BPOL) Tax Ordinance. Wholesale and retail merchants without a business location in the City are exempt from the requirement. Questions concerning the BPOL tax should be directed to the Commissioner of the Revenue, telephone number (540) 375-3019.

Anti-Discrimination: By acceptance of the purchase order, all Offerors certify to the City that they will conform to the provisions of the Federal Civil Rights Act of 1964, as amended, as well as the Virginia Fair Employment Act of 1975, as amended, where applicable, and Section 11-51 of the Virginia Public Procurement Act which provides: During the performance of this contract, the contractor agrees as follows: The contractor will not discriminate against any employee or applicant for employment because of race, religion, color, sex or national origin, except where religion, sex or national origin is a bona fide occupational qualification reasonably necessary to the normal operation of the contractor. The contractor agrees to post in conspicuous places, available to employees and applicants for employment, notices setting forth the provisions of this nondiscrimination clause. The contractor, in all solicitations or advertisements for employees placed by or on behalf of the contractor, will state that such contractor is an equal opportunity employer. Notices, advertisements and solicitations placed in accordance with federal law, rule or regulation shall be deemed sufficient for the purpose of meeting the requirements of this section.

Drug Free Work Place: Offerors must comply with Section 2.2-4312 of the VA Public Procurement Act, Drug Free work place.

Ethics In Public Contracting: By submitting the proposal, all Offerors certify and warrant that their proposals are made without collusion or fraud and that they have not offered or received any kickbacks or inducements from any other offeror, supplier, manufacturer, or subcontractor in connection with their proposal, and that they have not conferred on any public employee having official responsibility for this procurement transaction any payment, loan, subscription, advance, deposit of money, services or anything, present or promised, unless consideration of substantially equal or greater value is exchanged.

Applicable Law And Courts: Any contract resulting from this solicitation shall be governed in all respects by the laws of the Commonwealth of Virginia and any litigation with respect thereto shall be brought in the courts of the Commonwealth. The contractor shall comply with applicable federal, state and local laws and regulations.

Gifts By Offeror, Contractor Or Subcontractor: No Offeror, contractor or subcontractor shall confer on any public employee having official responsibility for the procurement transaction any payment, loan, subscription, advance, deposit of money, services or anything of more than nominal value, present or promised, unless consideration of substantially equal or greater value is exchanged.

Debarment Status: By accepting Purchase Order, all Offerors certify that they are not currently barred from submitting proposals on contracts by any agency of the Commonwealth of Virginia, nor are they an agent of any person or entity that is currently barred from submitting proposals on contracts by any agency of the Commonwealth of Virginia.

Compliance with federal, state, and local laws and federal immigration law; required contract provisions: The City shall provide the performance of the contract for goods and services in the Commonwealth, knowingly employ an unauthorized alien as defined in the federal Immigration Reform and Control Act of 1986.

END OF ITB # 2024-011