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The Walker Group Architecture, Inc  
 PO Box 541, New Bern, NC 28563  
 252.636.8778 (PHONE)  
 252.636.8992 (FAX)

INTERIOR UPTIT  
 USPS SPOUT SPRINGS NC CAX  
 XXXXXXXXX  
 XXXXXXXXX



A6.3 Architectural Door Details  
 Scale: As Indicated Date: 5/17/2018  
 Project: SPOUT SPRINGS INTERIOR UPTIT  
 USPS File Number: XXXXXX  
 USPS Project Number: 097932

Columbia, MD 21045-0701  
 Columbia, MD 21050 Little Patuxent Parkway, Second Floor, Columbia, MD 21045-0701



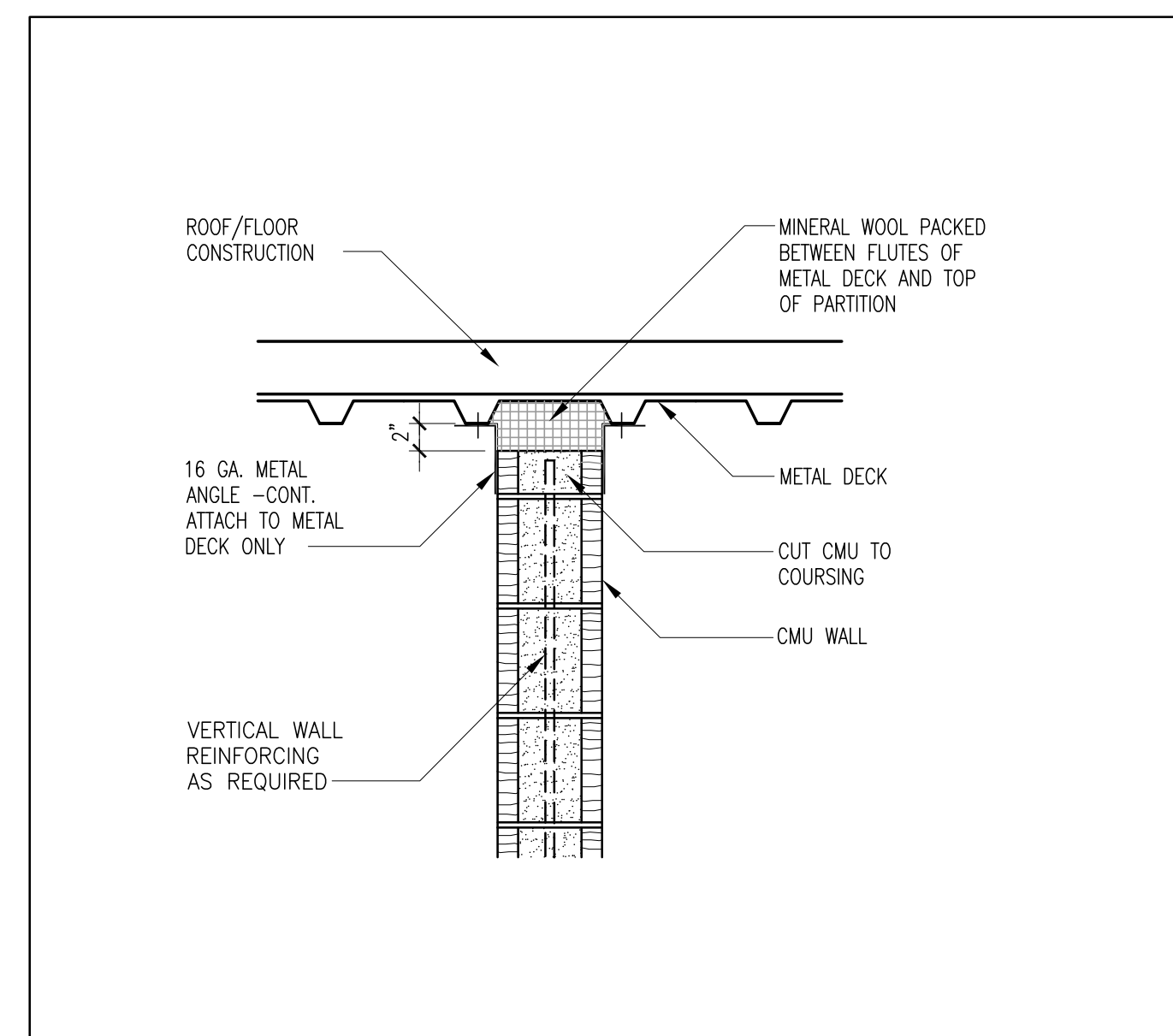


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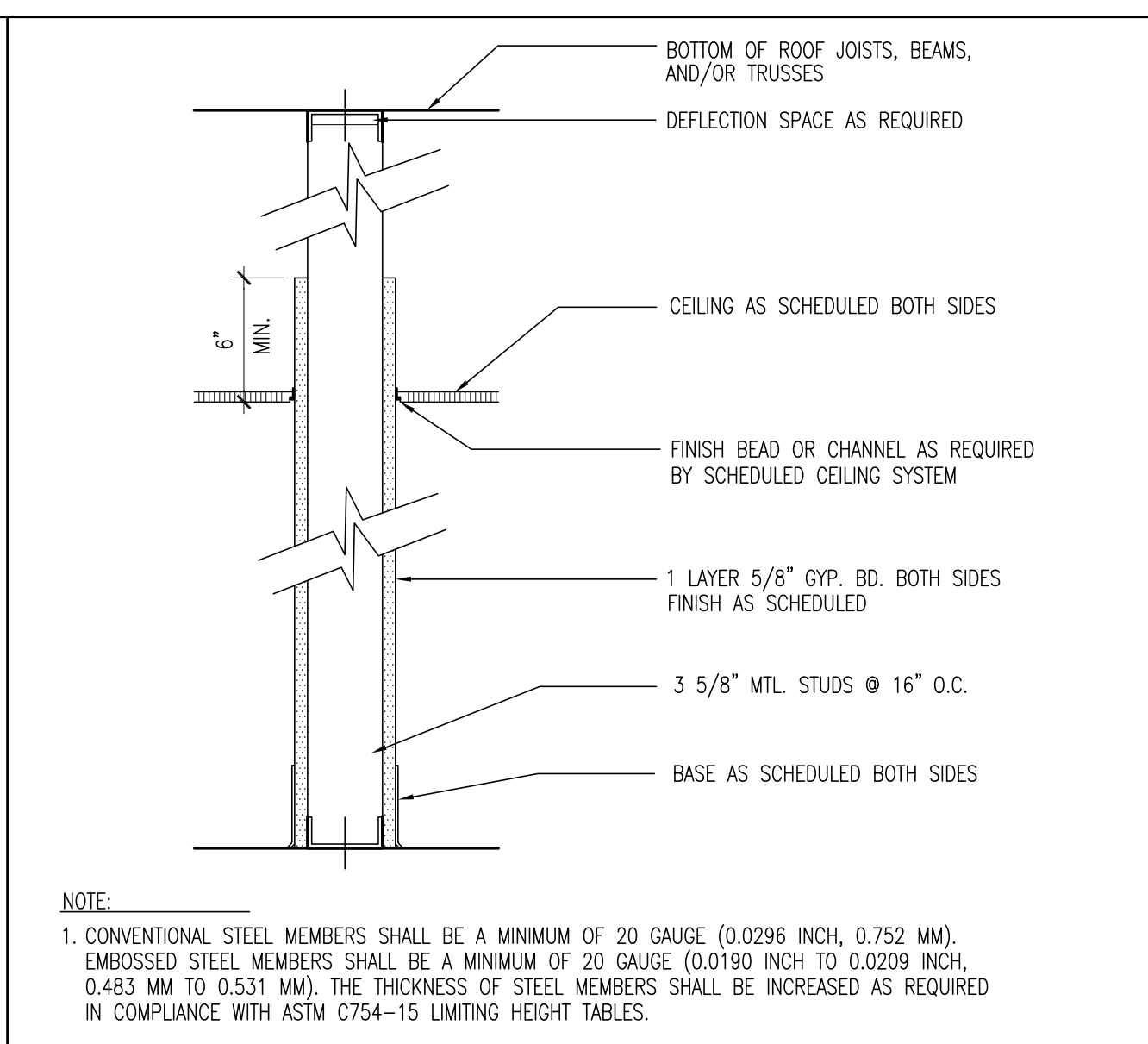
INTERIOR UPTIT  
 USPS SPOUT SPRINGS NC CAX  
 XXXXXXXXXX  
 XXXXXXXXXX

UNITED STATES  
 POSTAL SERVICE

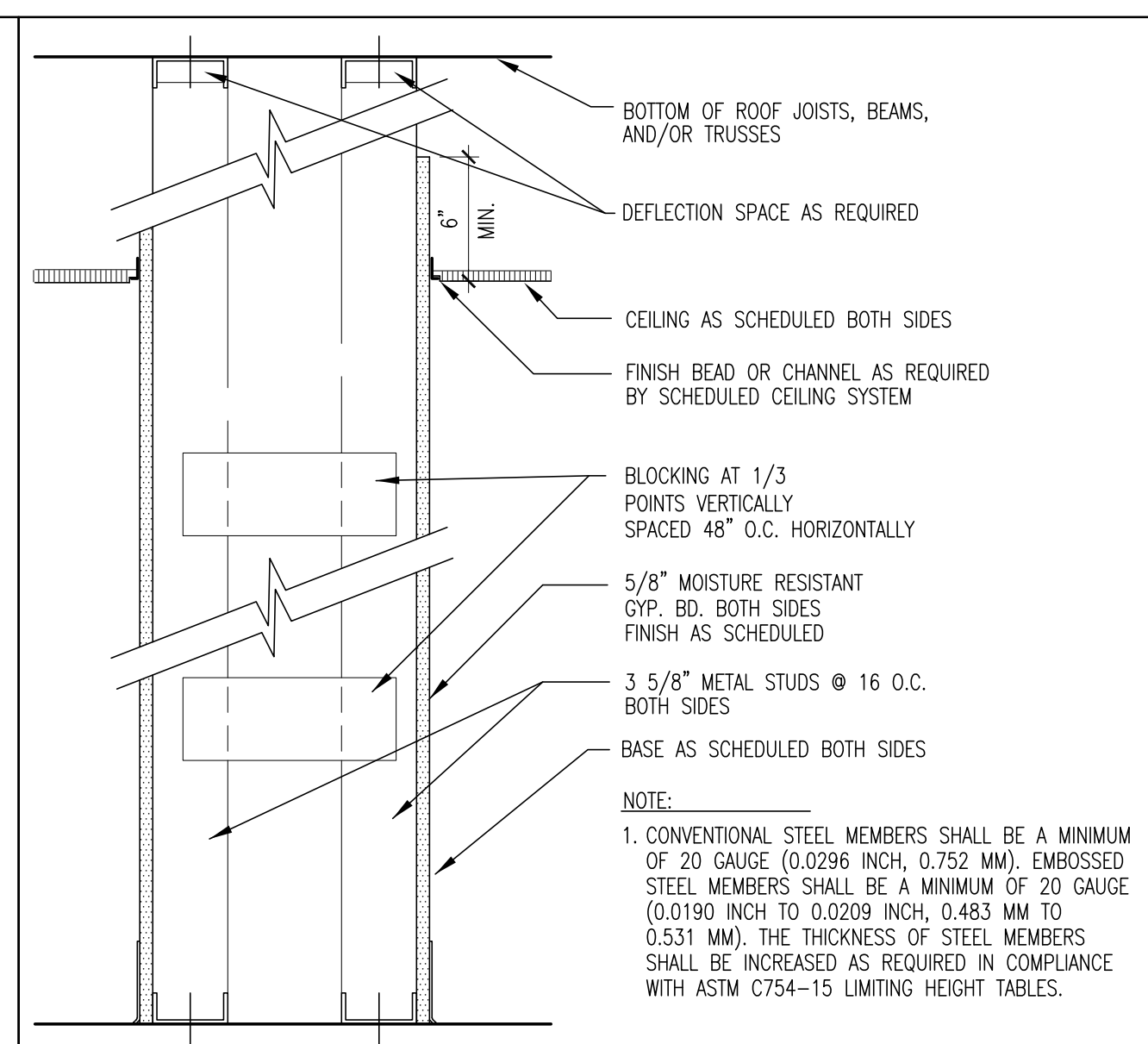
Columbia, MD 21045-0701  
 A6.4 Architectural  
 Interior Wall Types and Details  
 Scale: As Indicated Date: 5/17/2018  
 Project: SPOUT SPRINGS INTERIOR UPTIT  
 USPS File Number: XXXXXXX  
 USPS Project Number: 097932



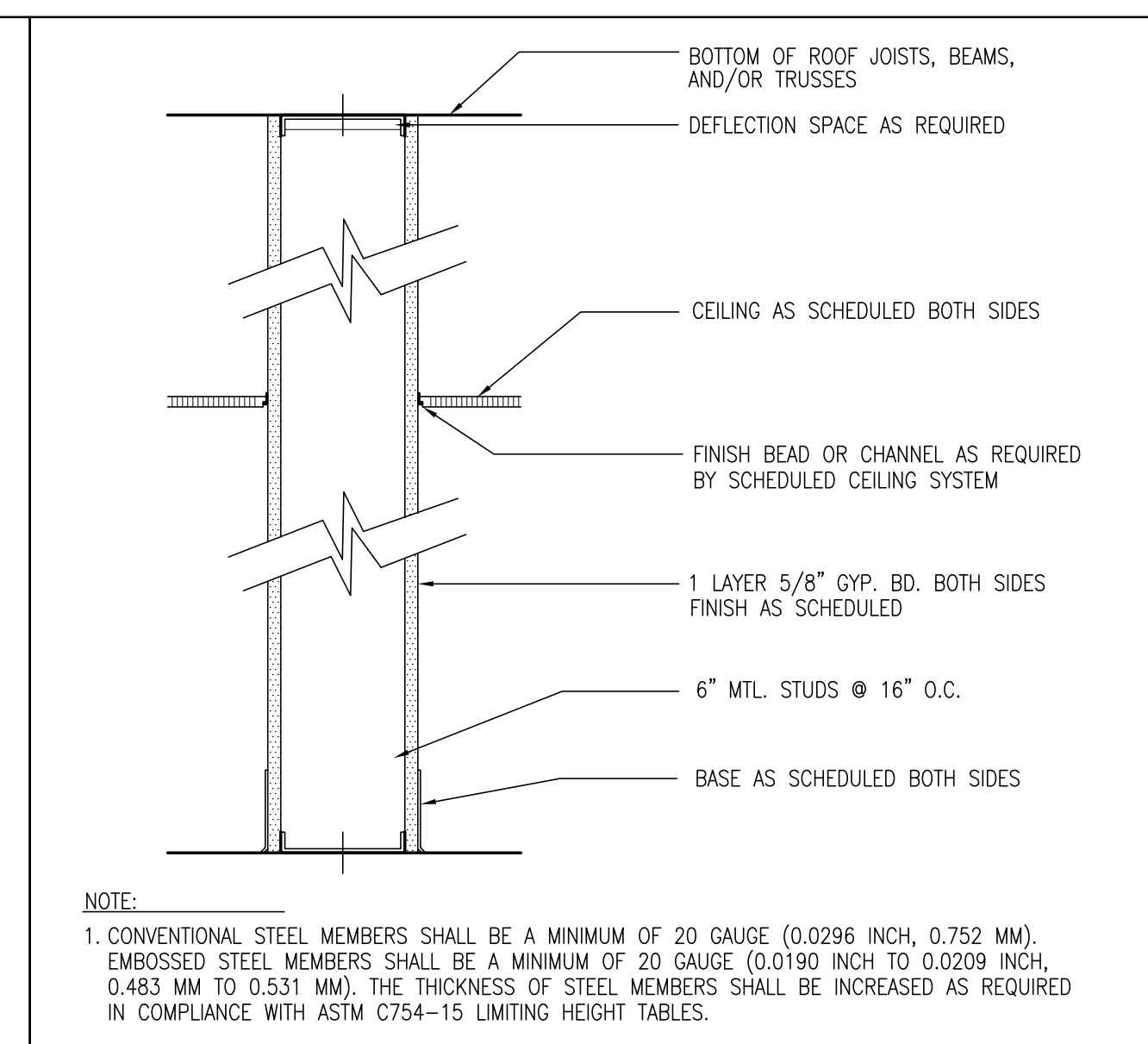
**1** Interior Partitions - Detail of Top of CMU Partition  
 G2-7-0 d  
 Scale: 1/2" = 1'-0"  
 USPS S&S Issued: 10/2/2017  
 Last Revised: 3/12/2018



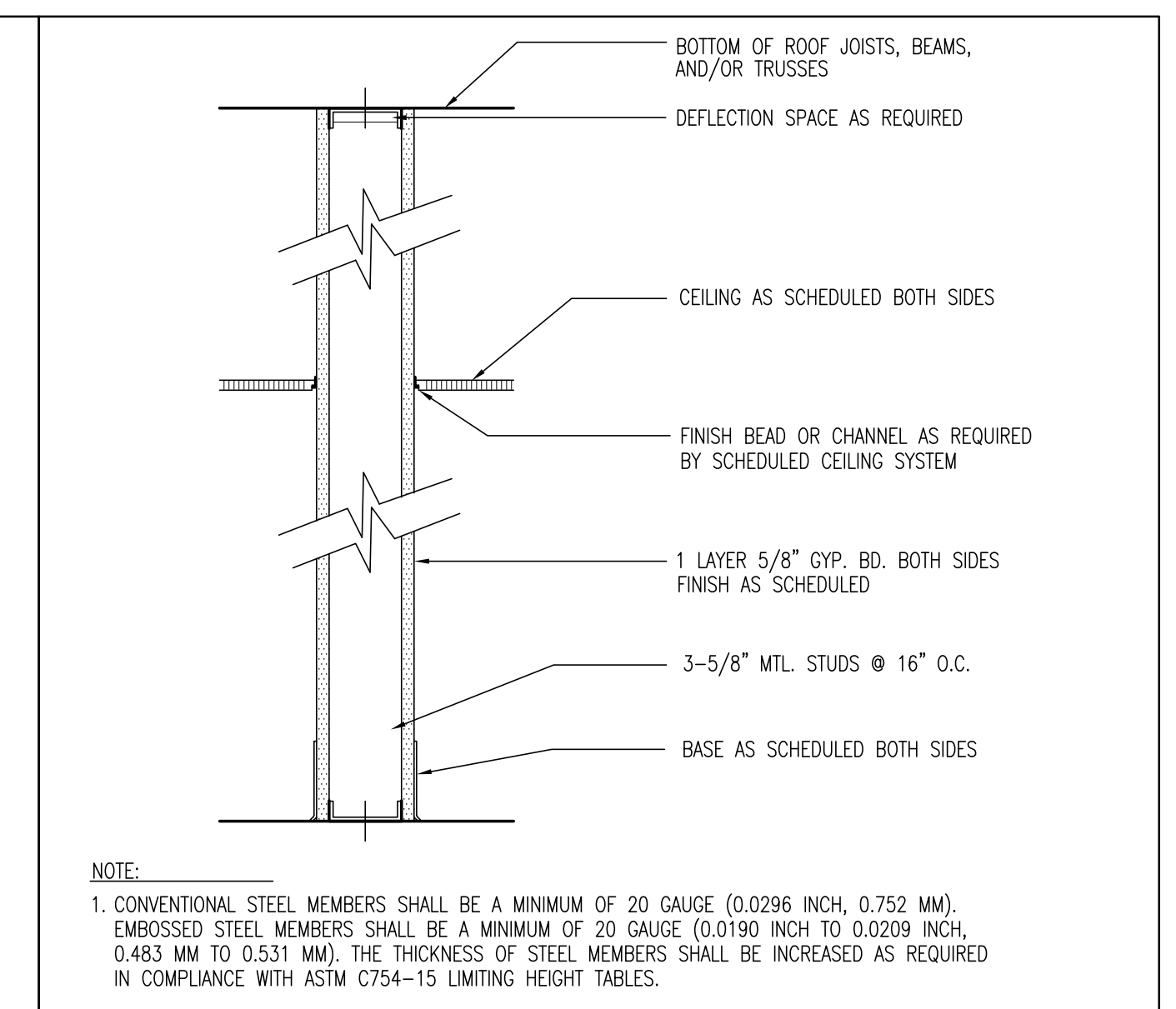
**2** Interior Partitions - Type D2 (Full Ht. Stud) - 3 5/8" Metal Stud  
 G2-7-1 d2  
 Scale: 1/2" = 1'-0"  
 USPS S&S Issued: 10/2/2017  
 Last Revised: 7/26/2016



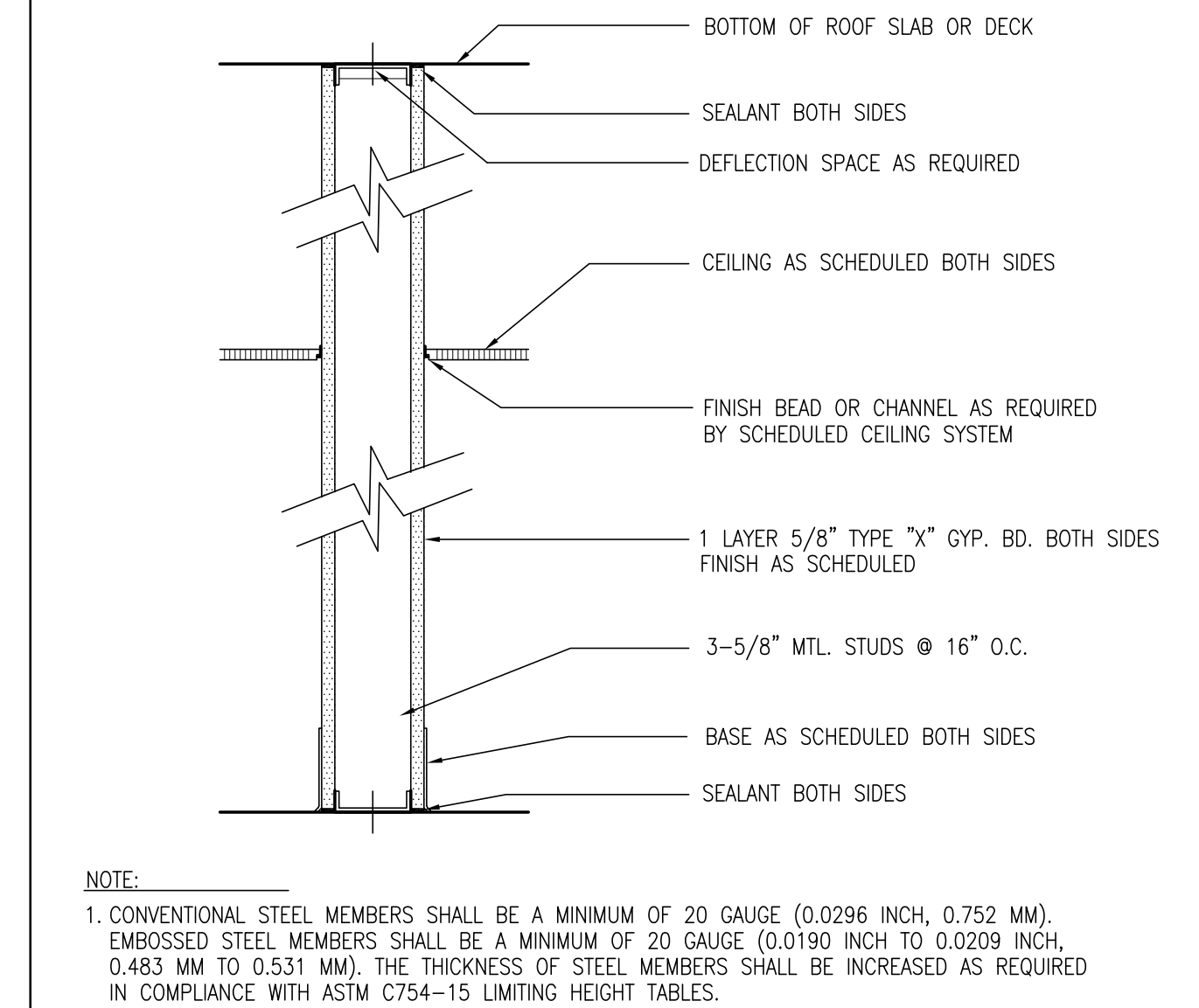
**3** Interior Partitions - Type F2 (Chase Wall) - 3 5/8" Metal Studs  
 G2-7-1 f2  
 Scale: 1/2" = 1'-0"  
 USPS S&S Issued: 10/2/2017  
 Last Revised: 7/26/2016



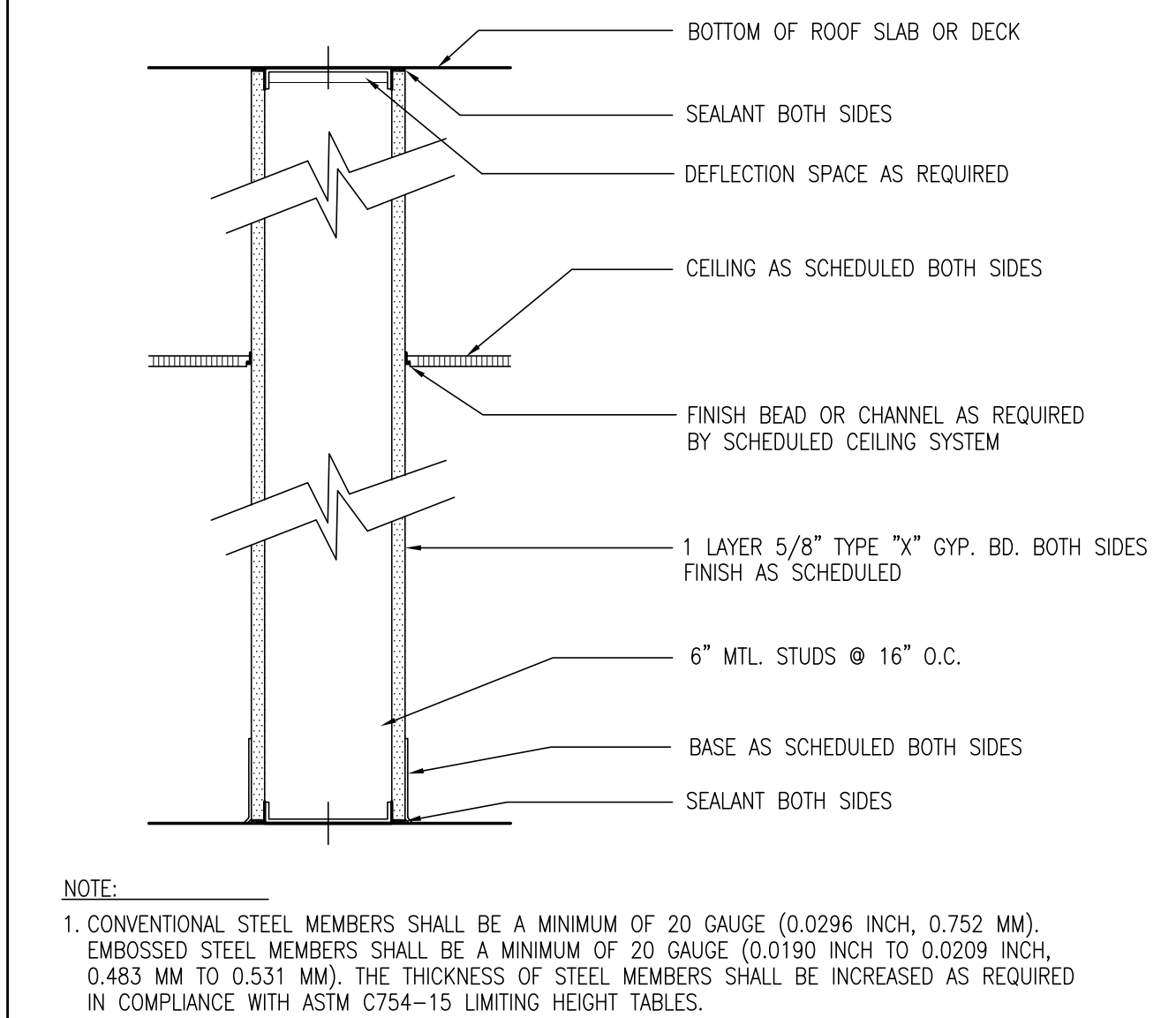
**4** Interior Partitions - Type H3 (Full Height) - 6" Metal Studs  
 G2-7-1 h3  
 Scale: 1/2" = 1'-0"  
 USPS S&S Issued: 10/2/2017  
 Last Revised: 7/26/2016



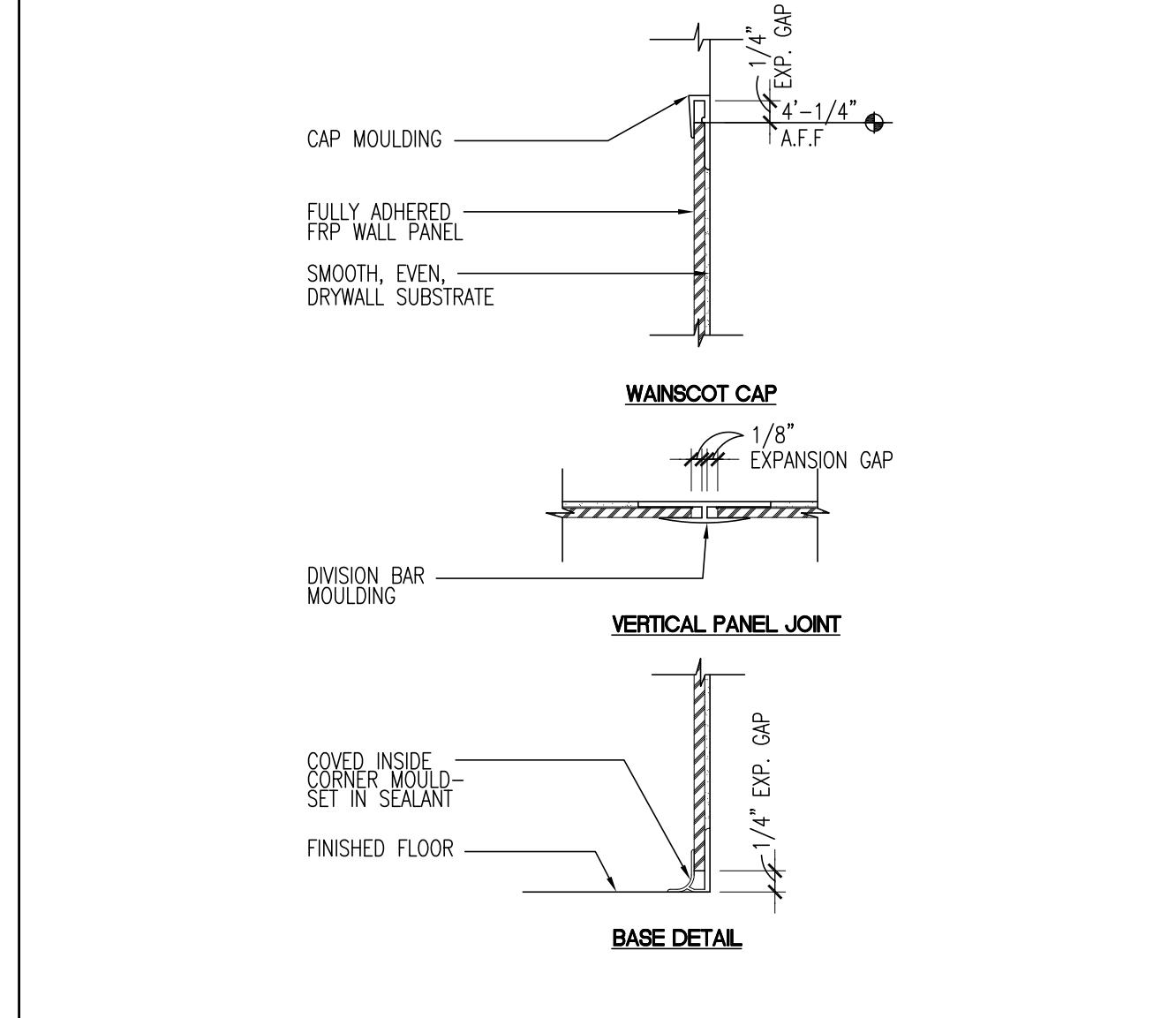
**5** Interior Partitions - Type J2 (Security) - 3 5/8" Metal Studs  
 G2-7-1 j2  
 Scale: 1/2" = 1'-0"  
 USPS S&S Issued: 10/2/2017  
 Last Revised: 7/26/2016



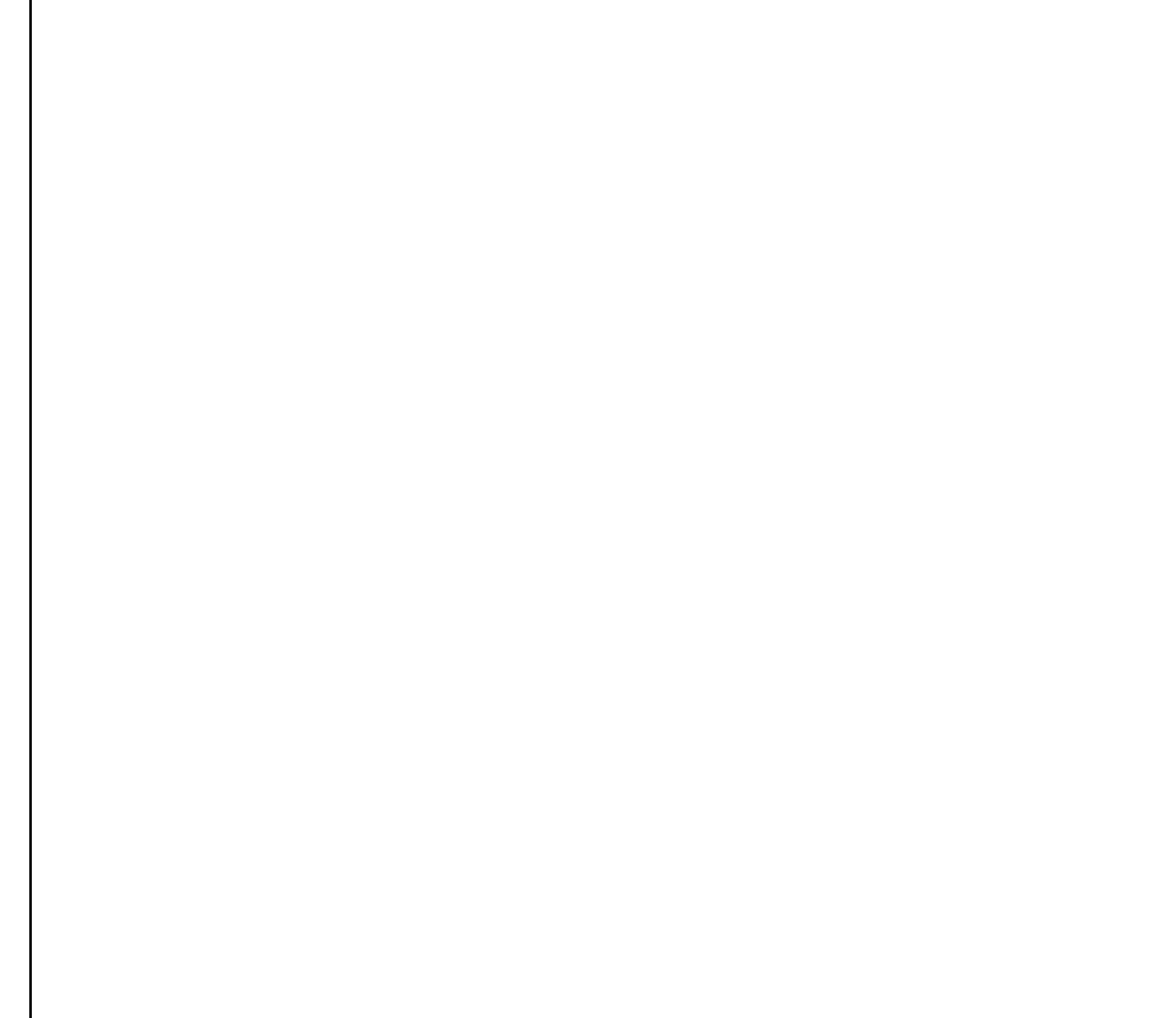
**6** Interior Partitions - Type N2 (1 Hour UL #U465) - 3 5/8" Metal Studs  
 G2-7-1 n2  
 Scale: 1/2" = 1'-0"  
 USPS S&S Issued: 10/2/2017  
 Last Revised: 7/26/2016



**7** Interior Partitions - Type N3 (1 Hour UL #U465) - 6" Metal Studs  
 G2-7-1 n3  
 Scale: 1/2" = 1'-0"  
 USPS S&S Issued: 10/2/2017  
 Last Revised: 7/26/2016



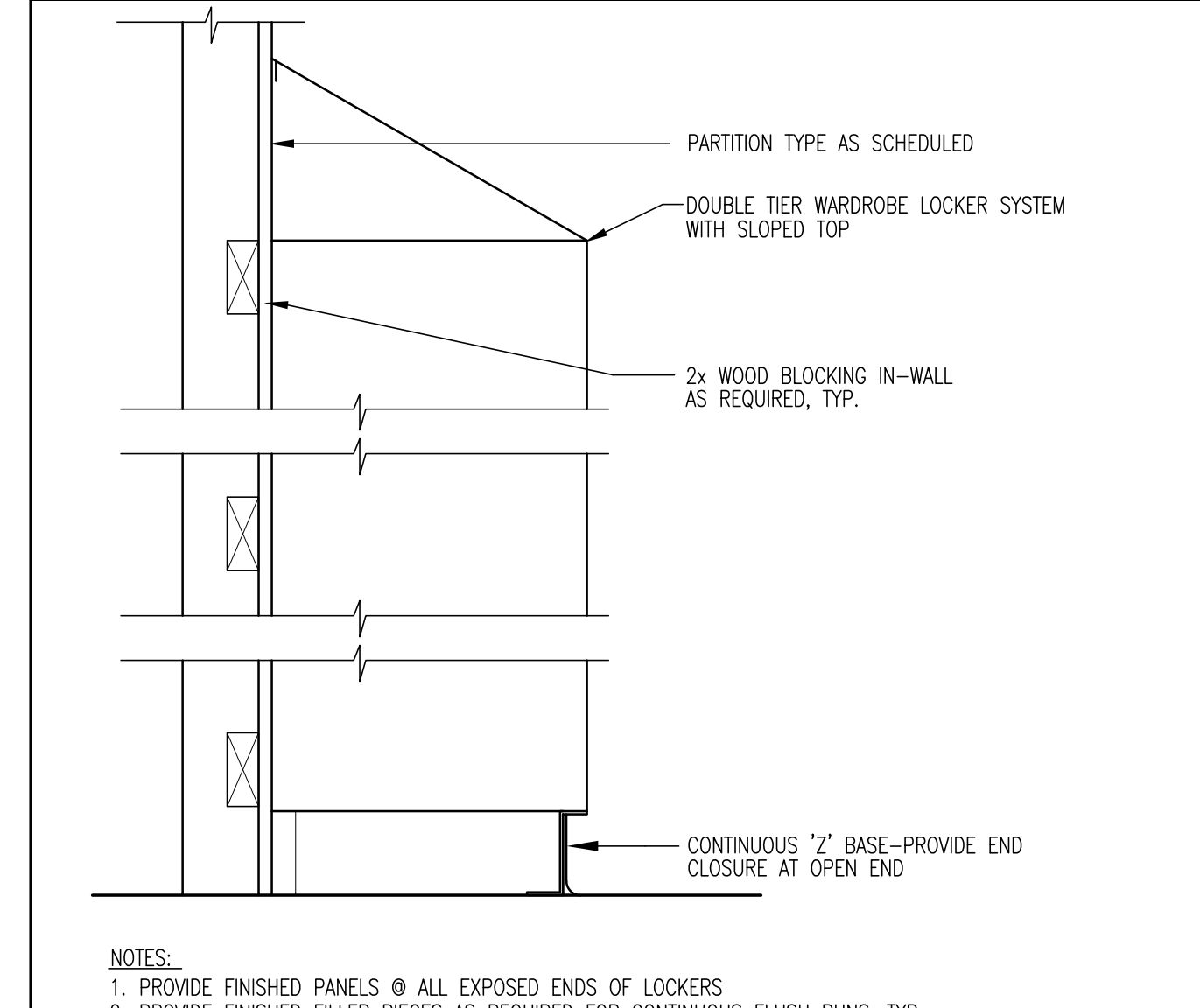
**8** Protective Barriers - Fiberglass Reinforced Plastic (FRP) Panel Detail  
 G2-7-4 e3  
 Scale: 6" = 1'-0"  
 USPS S&S Issued: 10/2/2017  
 Last Revised: 7/26/2016



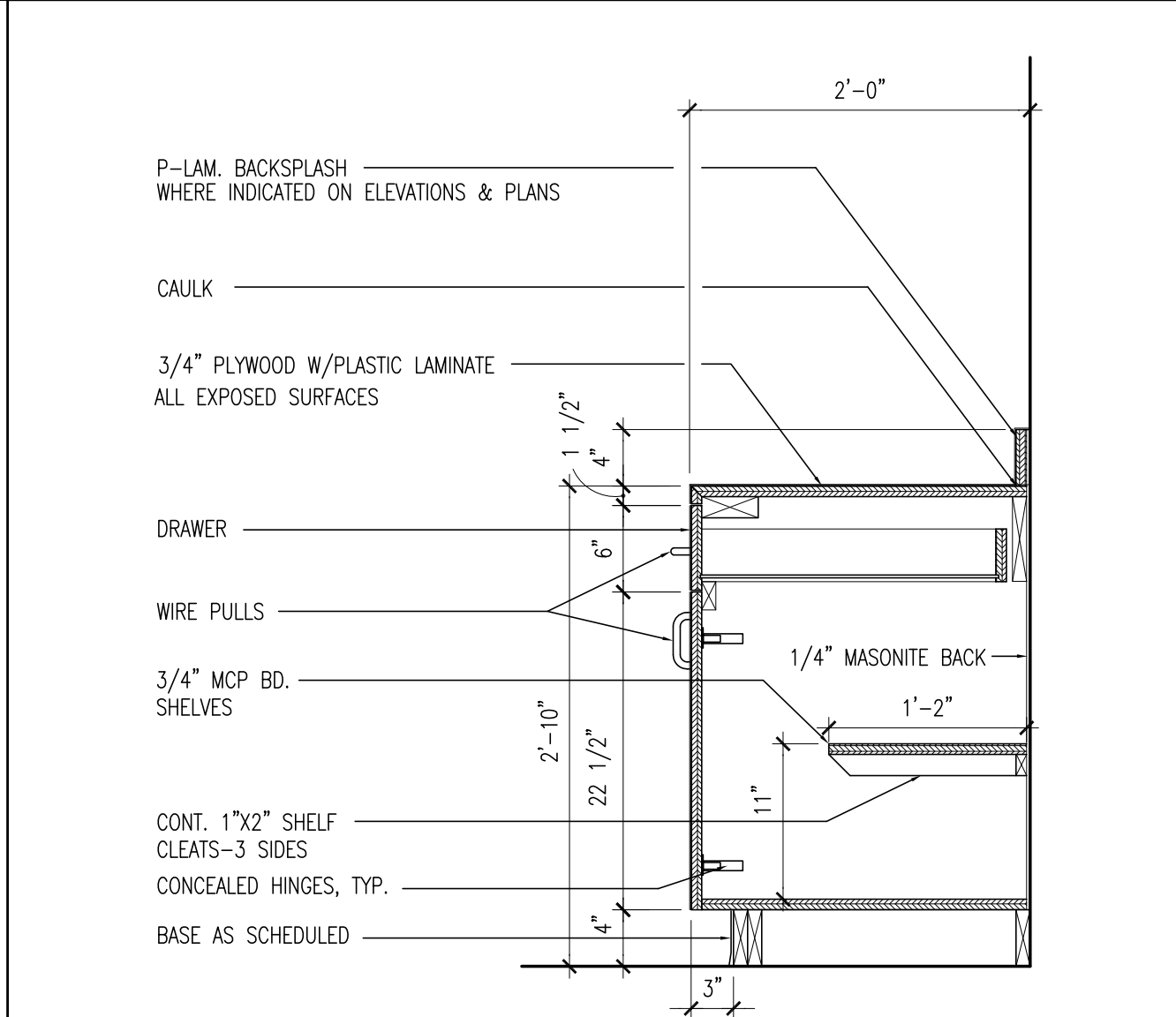
**9** NOT USED



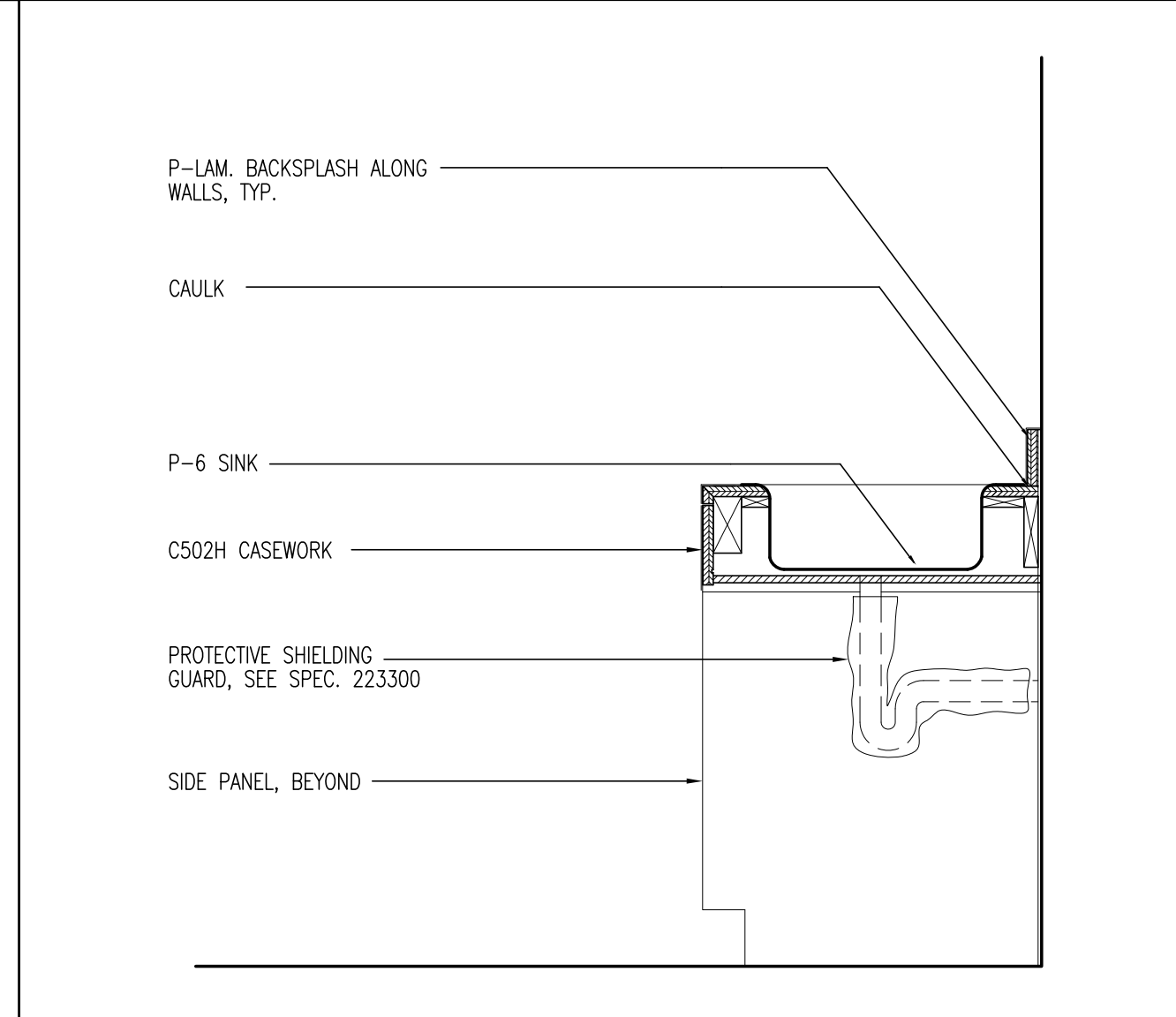
**10** NOT USED



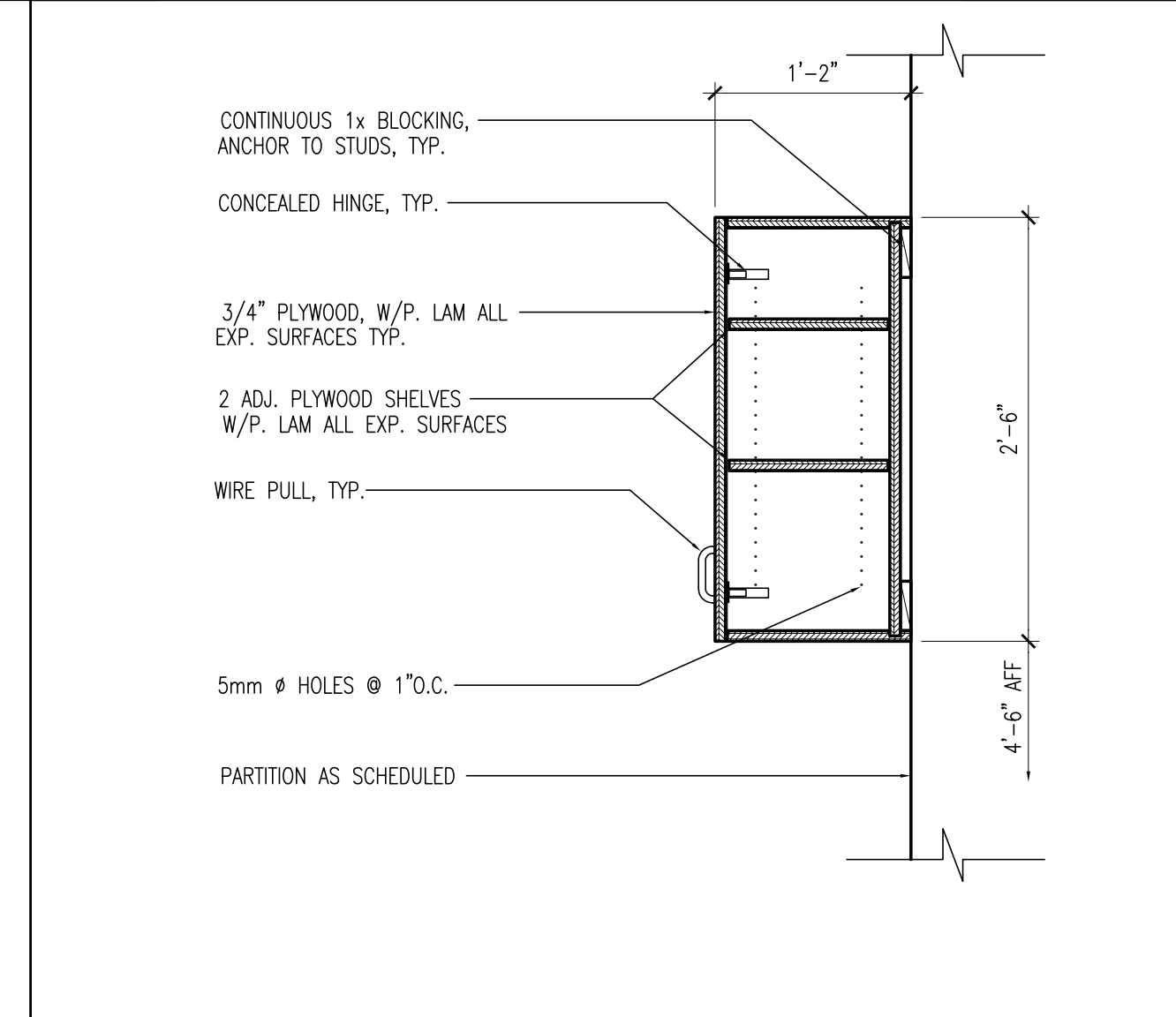
**11** Support Areas - Section of Wardrobe Lockers  
 G2-4-3 a  
 Scale: 1/2" = 1'-0"  
 USPS S&S Issued: 10/2/2017  
 Last Revised: 3/12/1992



**12** Lunchroom/Break Area - Section Through Typ. Base Cabinet  
 G2-4-4 a  
 Scale: 1" = 1'-0"  
 USPS S&S Issued: 10/2/2017  
 Last Revised: 3/12/1992



**13** Lunchroom/Break Area - Section Through Typ. Sink Base  
 G2-4-4 a1  
 Scale: 1/2" = 1'-0"  
 USPS S&S Issued: 10/2/2017  
 Last Revised: 6/26/2010

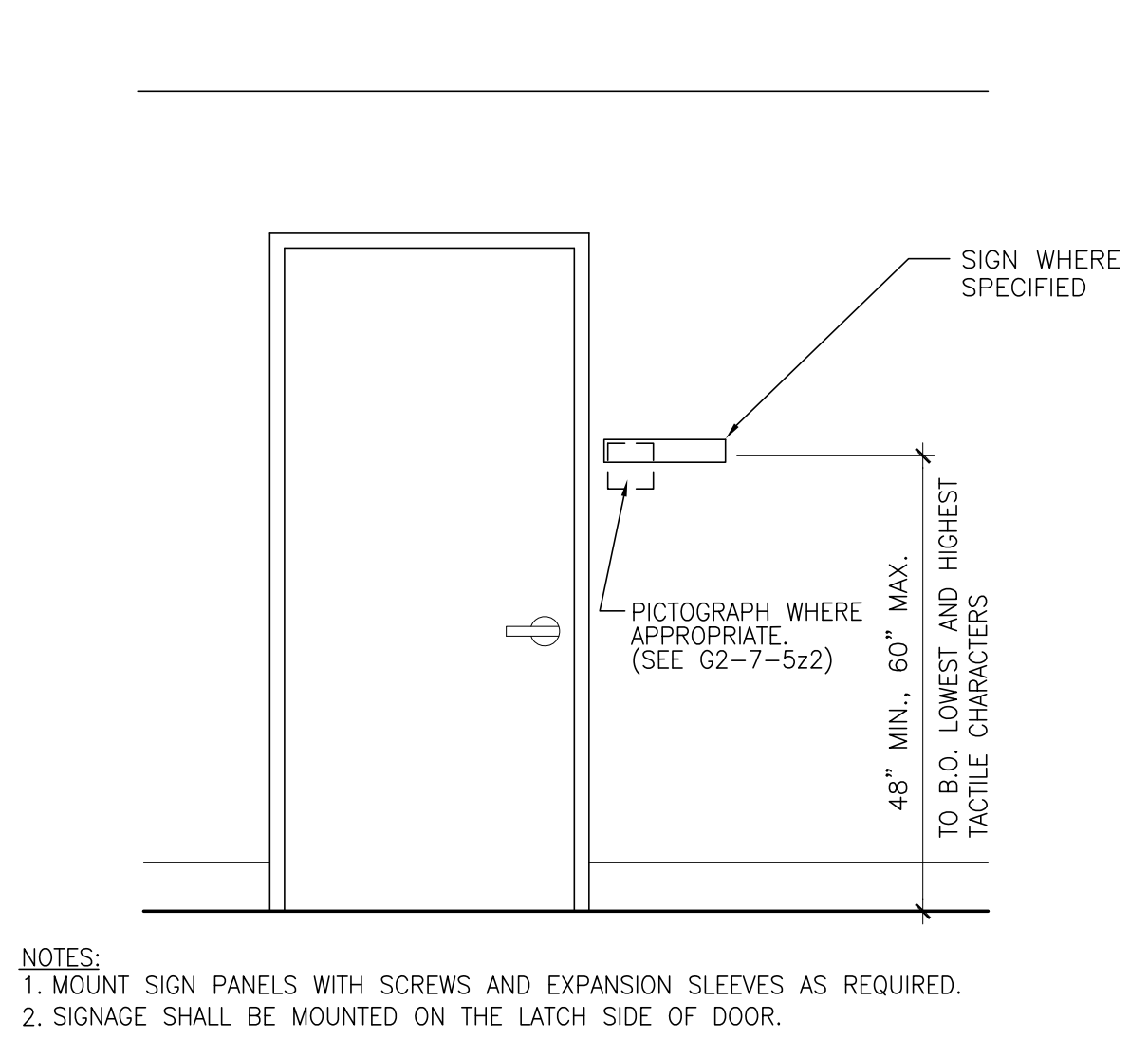


**14** Lunchroom/Break Area - Section of Typical Wall Cabinet  
 G2-4-4 b  
 Scale: 1/2" = 1'-0"  
 USPS S&S Issued: 10/2/2017  
 Last Revised: 3/12/1992

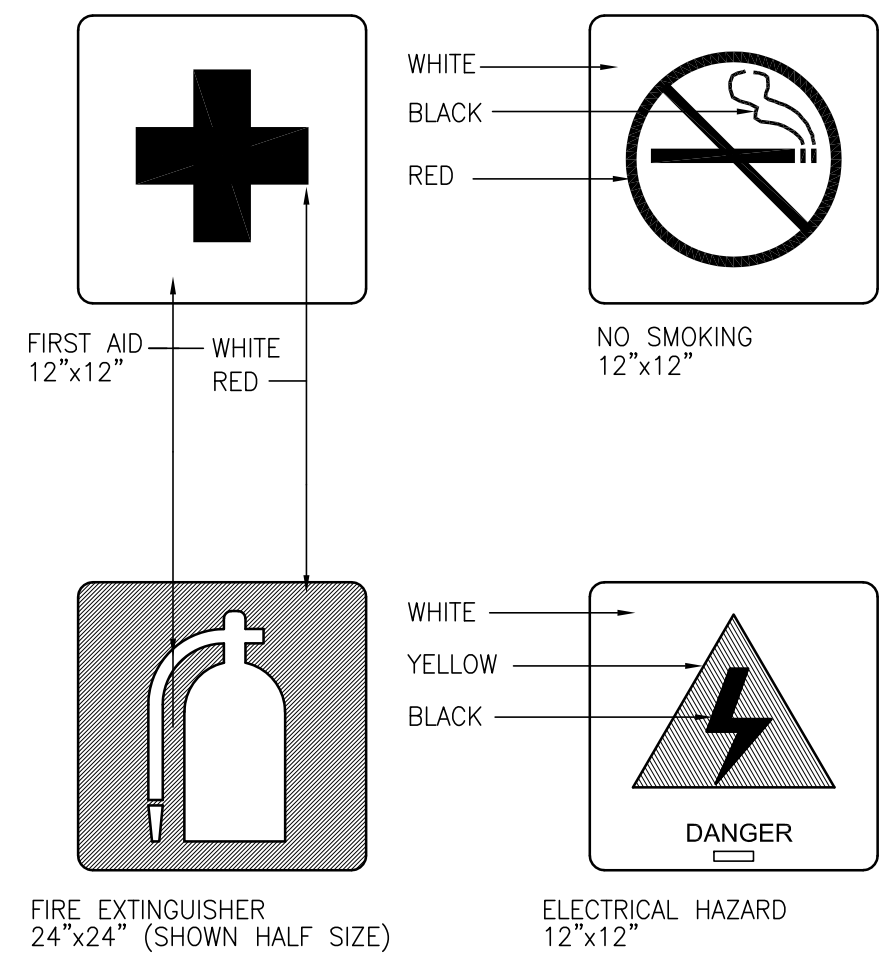


**15** NOT USED

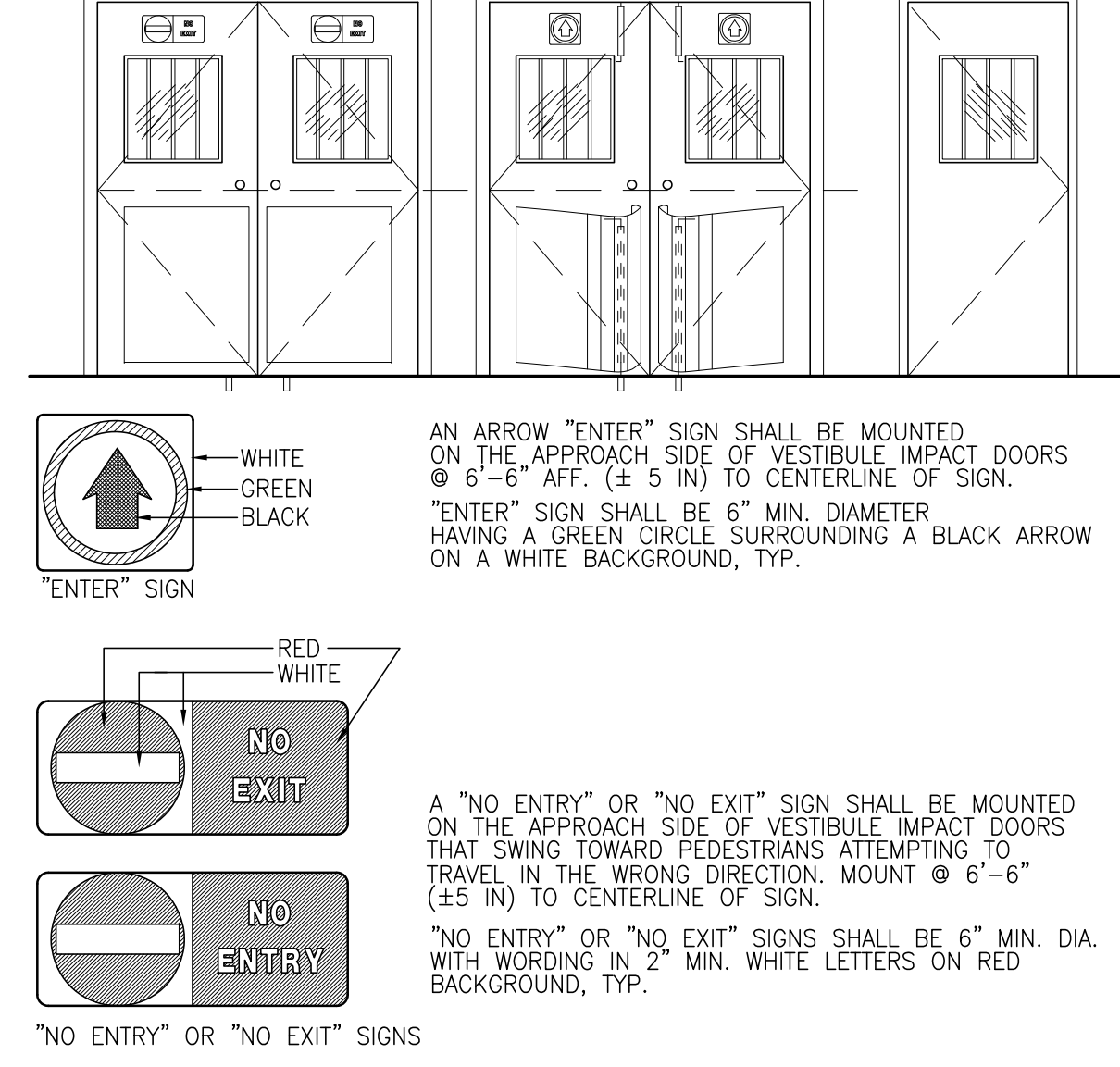
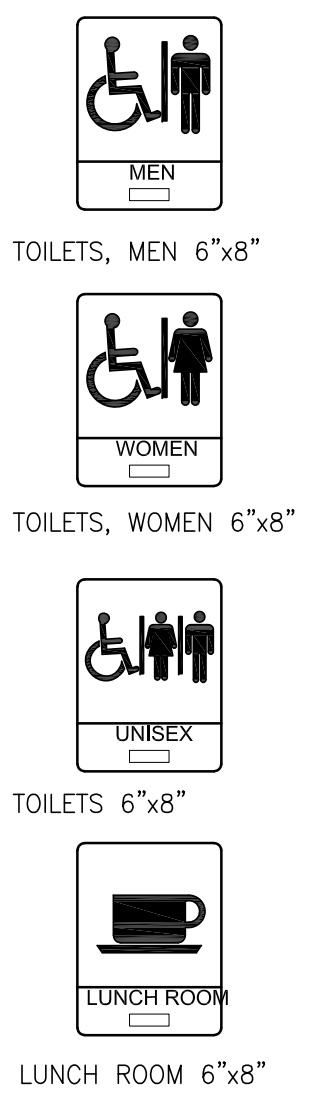




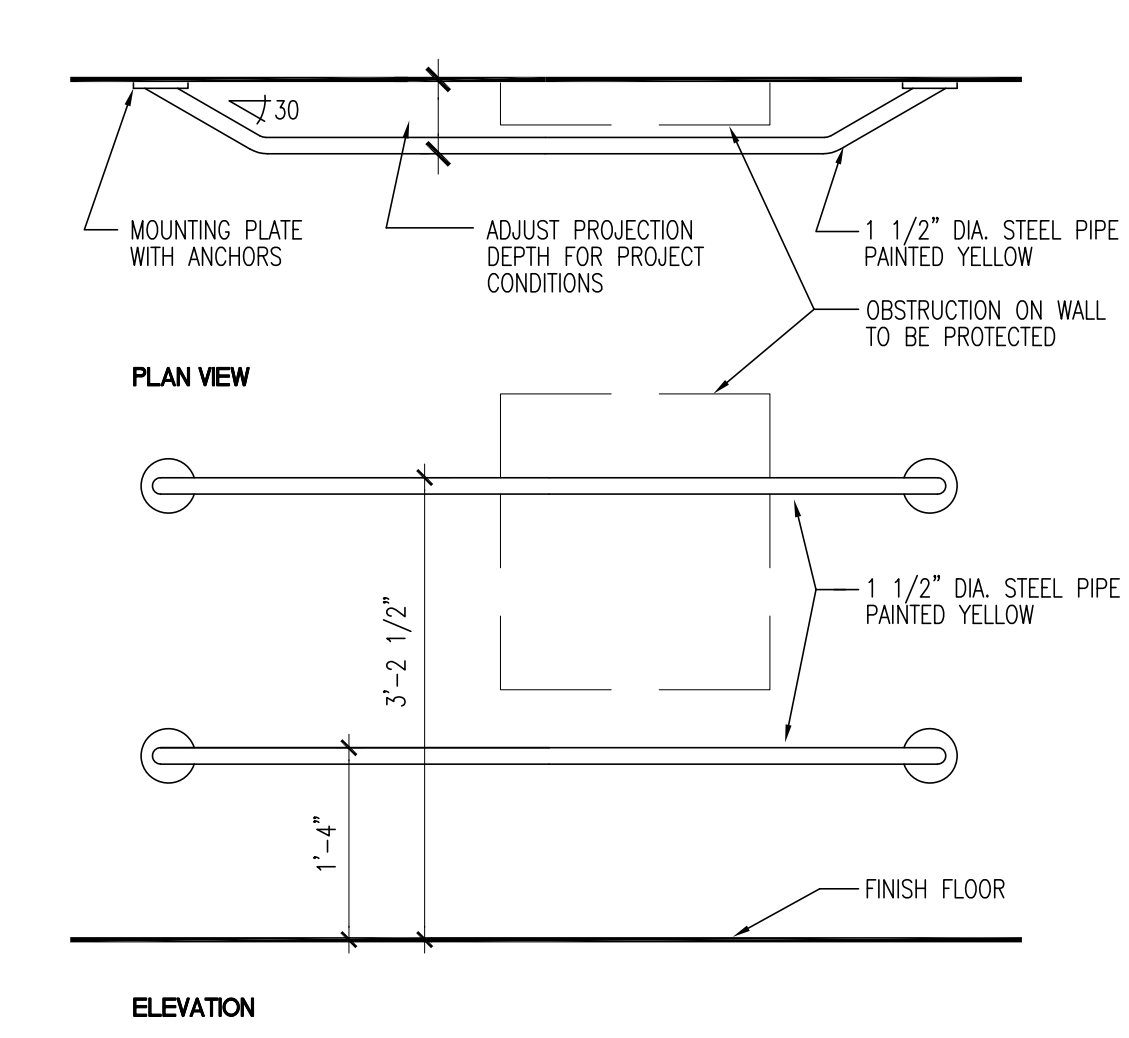
NOTES:  
1. MOUNT SIGN PANELS WITH SCREWS AND EXPANSION SLEEVES AS REQUIRED.  
2. SIGNAGE SHALL BE MOUNTED ON THE LATCH SIDE OF DOOR.



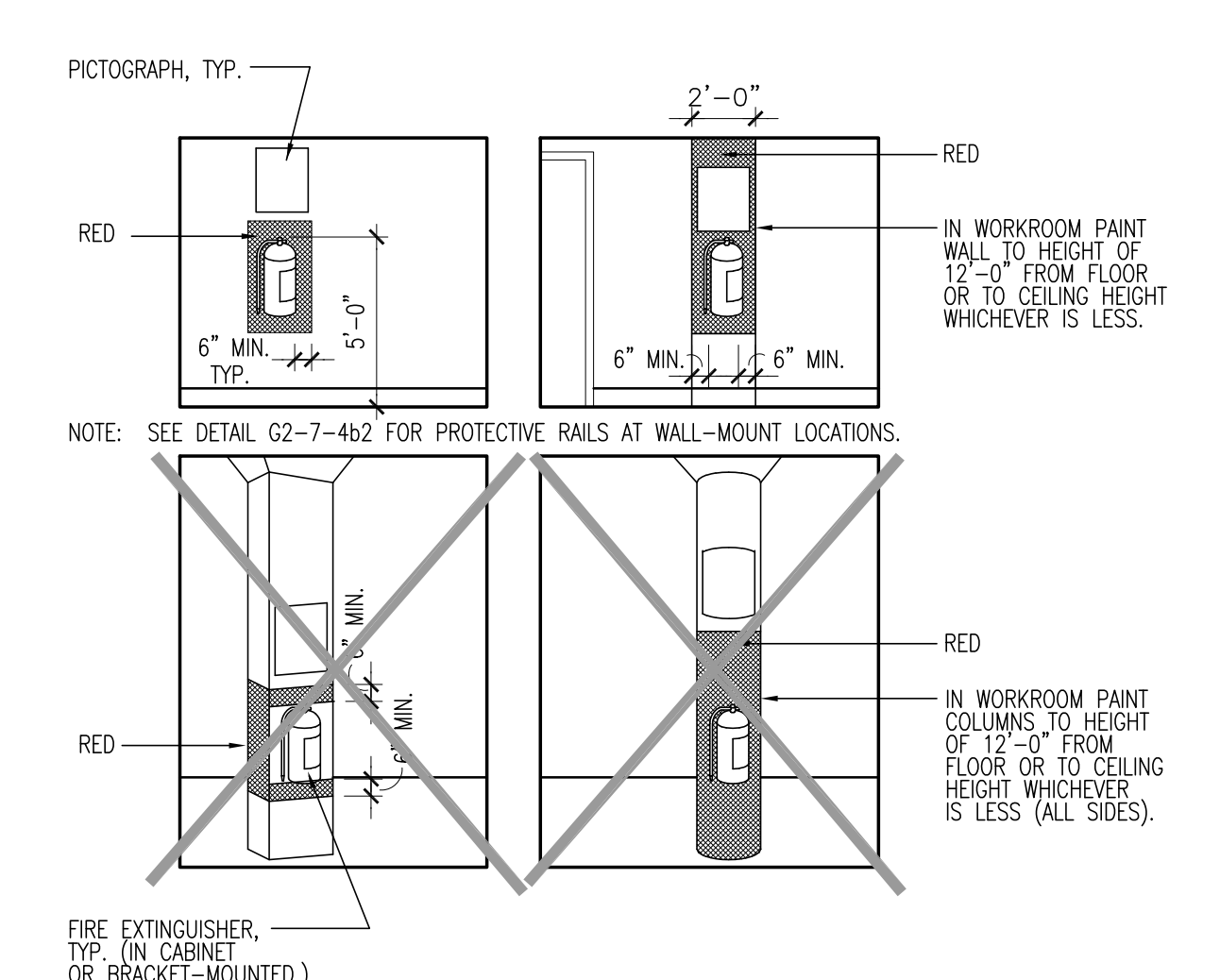
NOTE:  
1. PROVIDE 1/32" RAISED GRAPHIC W/ BRAILLE FOR TOILET ROOMS.



NOTE:  
1. PROVIDE ONE OR TWO RAILS AS REQUIRED TO PROTECT TIME CLOCKS, THERMOSTATS AND OTHER OBSTRUCTIONS IN TRAFFIC AREAS.



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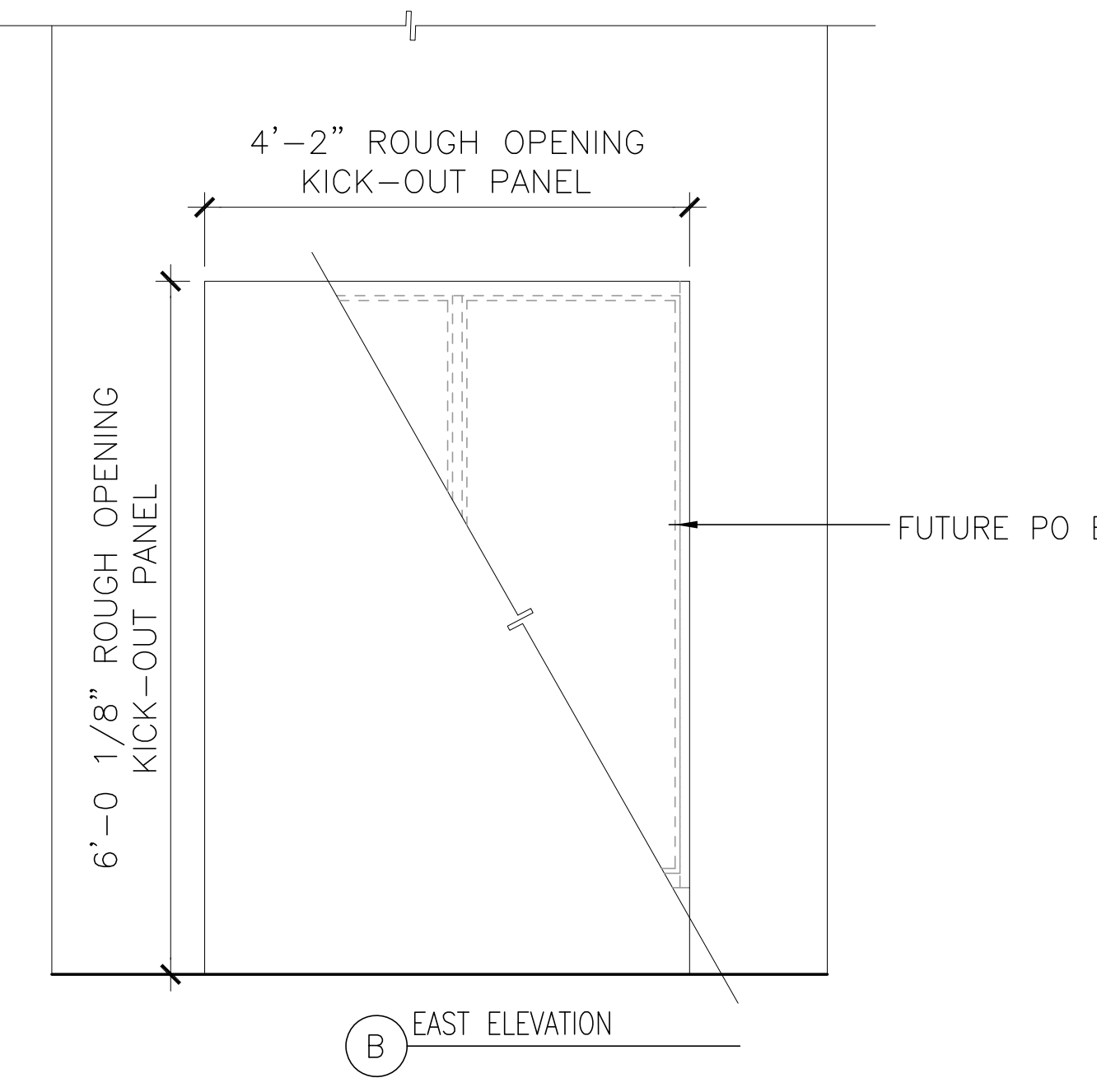
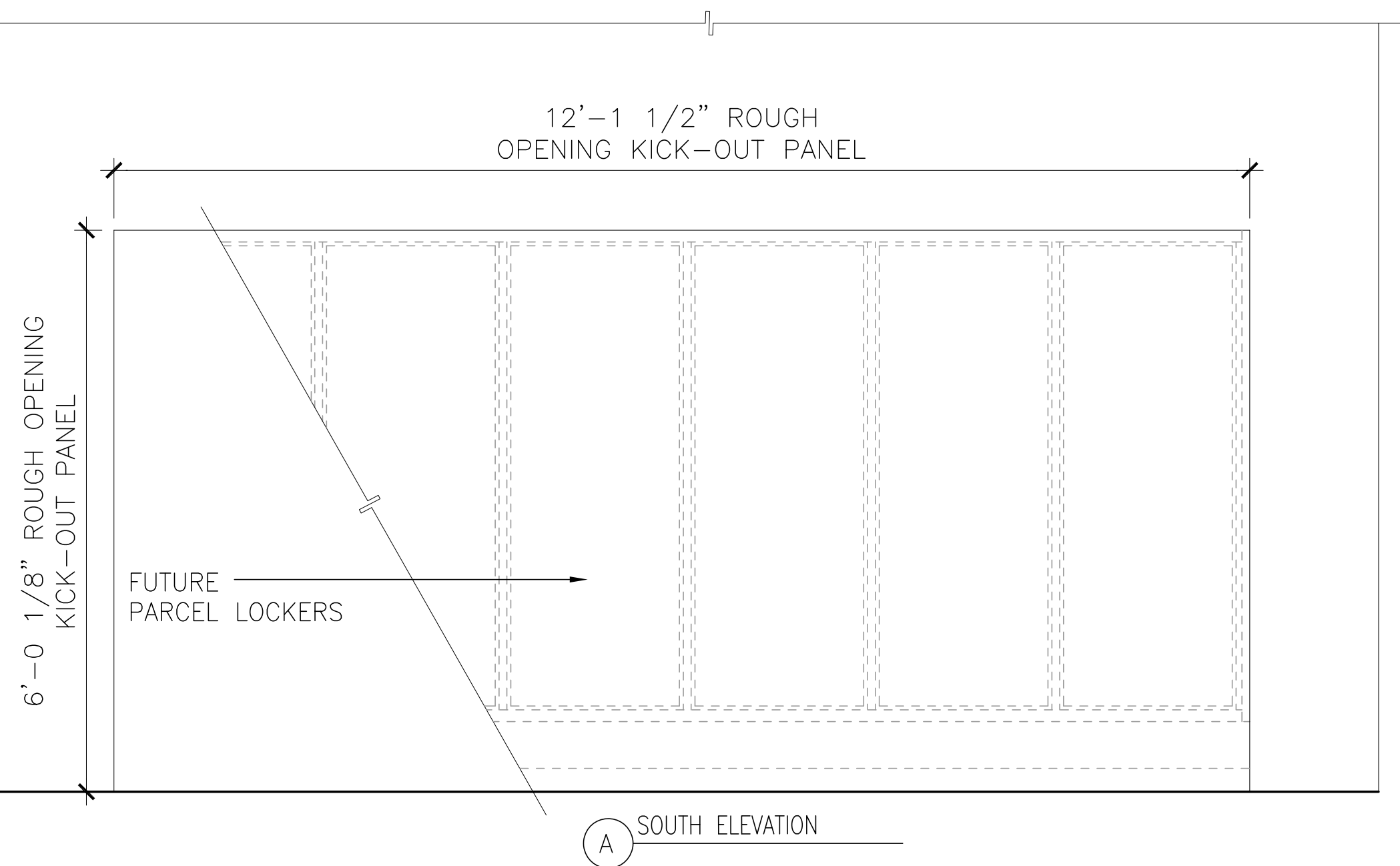
**1 BUILDING IDENTIFICATION - ROOM SIGNAGE**  
G2-7-5z  
Scale: 1/2" = 1'-0"  
USPS SOL Issues: 10/1/2017  
Last Revised: 3/1/2005

**2 BUILDING IDENTIFICATION - ROOM SIGNAGE PICTOGRAPHS**  
G2-7-5z2  
Scale: 1/2" = 1'-0"  
USPS SOL Issues: 10/1/2017  
Last Revised: 3/1/2005

**3 BUILDING IDENTIFICATION - IMPACT DOOR PICTOGRAPHS**  
G2-7-5z3  
Scale: 1/2" = 1'-0"  
USPS SOL Issues: 10/1/2017  
Last Revised: 3/1/2005

**4 PROTECTIVE BARRIERS - DETAIL • PROTECTIVE RAILS**  
G2-7-4b2  
Scale: 3/4" = 1'-0"  
USPS SOL Issues: 10/1/2017  
Last Revised: 3/1/2005

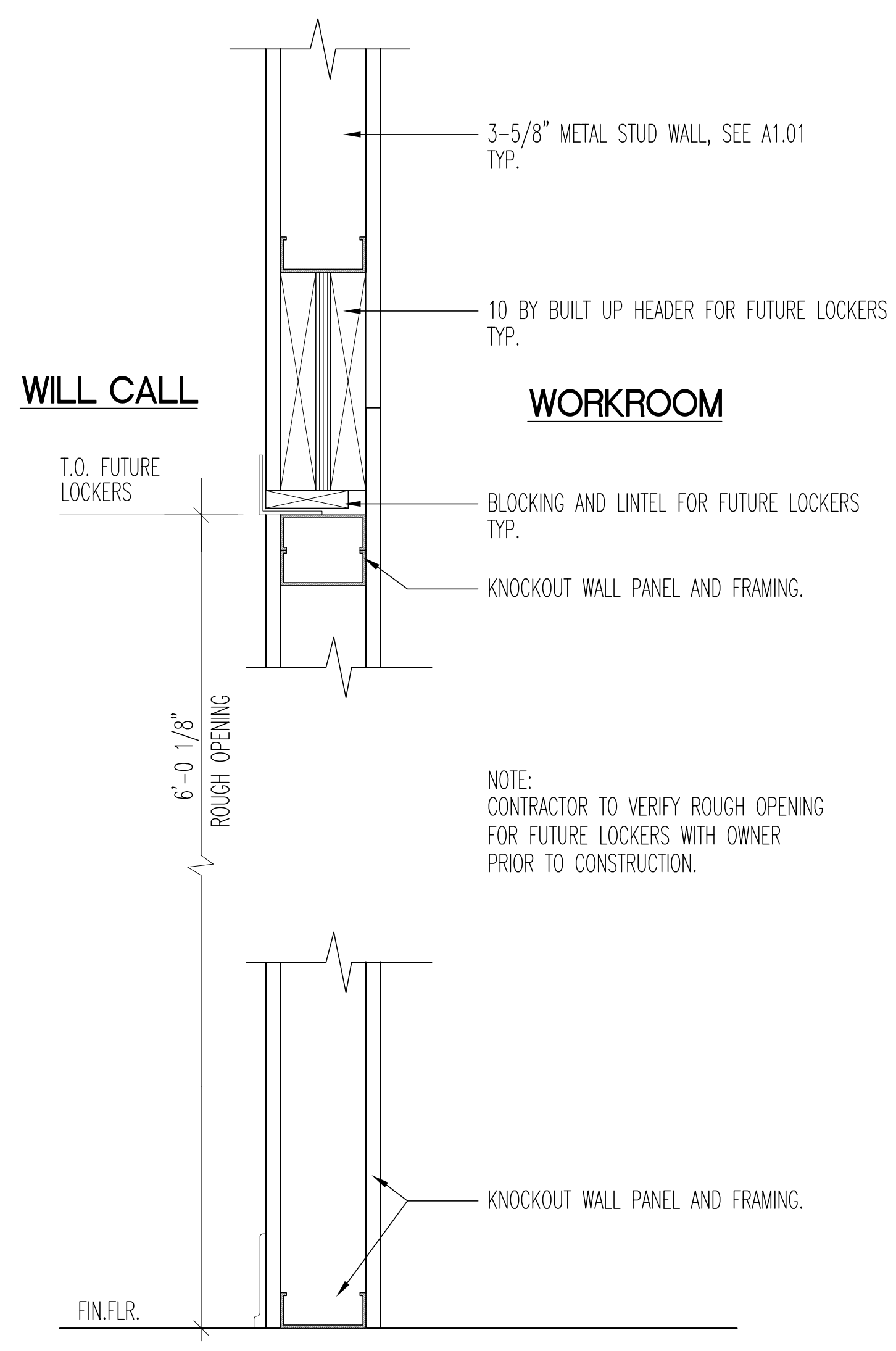
**5 FIRE EXTINGUISHERS - EXTINGUISHER IDENTIFICATION**  
G2-8-2a  
Scale: 3/16" = 1'-0"  
USPS SOL Issues: 10/1/2017  
Last Revised: 3/1/2005



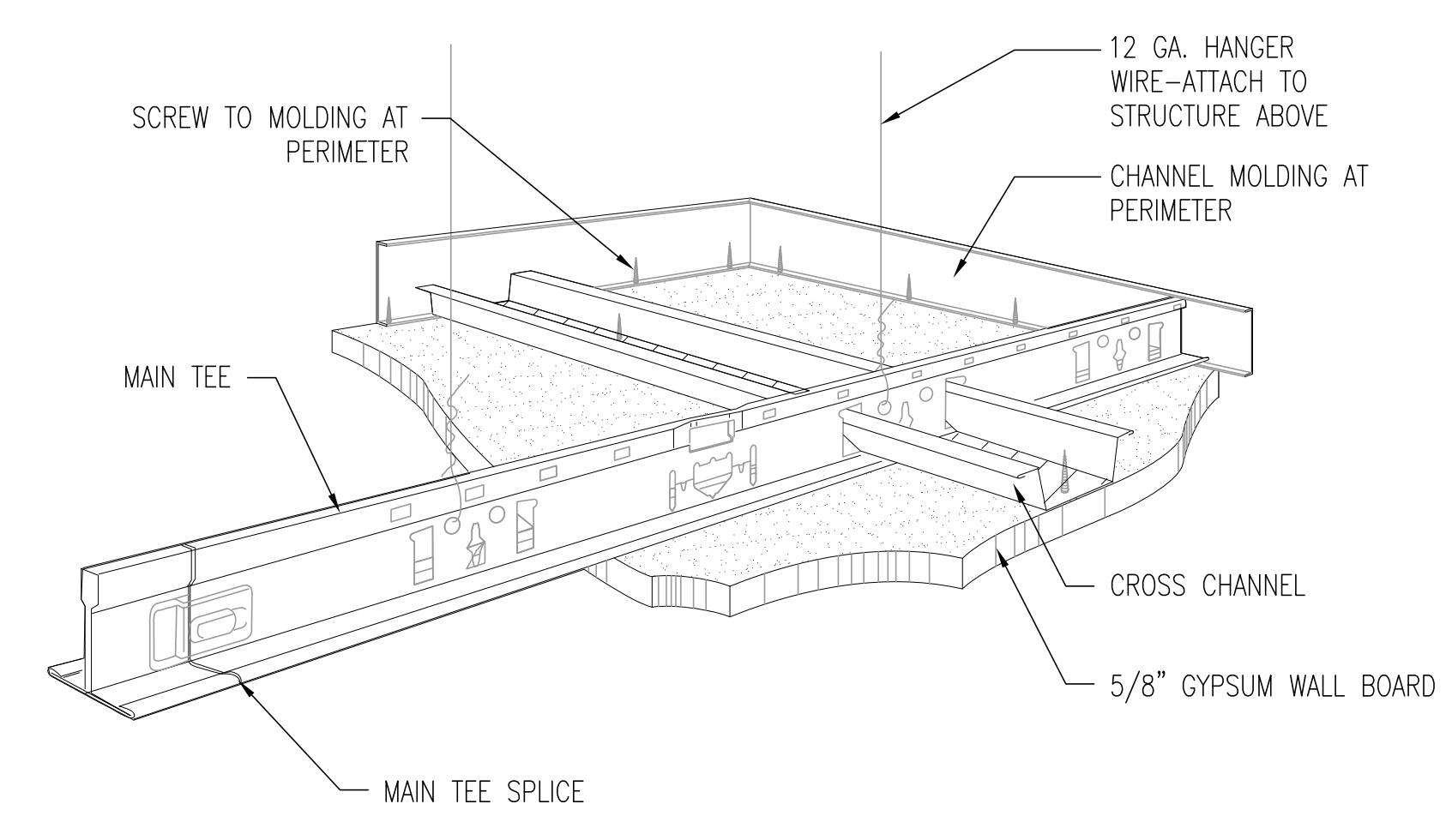
CUT-OUT OPENINGS		
SCHEDULE OF CUT-OUT ROUGH OPNG.		
NO. OF PANELS	WALL LOCATION	ROUGH OPENING SIZE
2	EAST	4'-2"
6	SOUTH	12'-1 1/2"

NOTE:  
CONTRACTOR TO VERIFY REQUIRED ROUGH OPENING SIZES IN THE FIELD WITH OWNER BEFORE CONSTRUCTION.

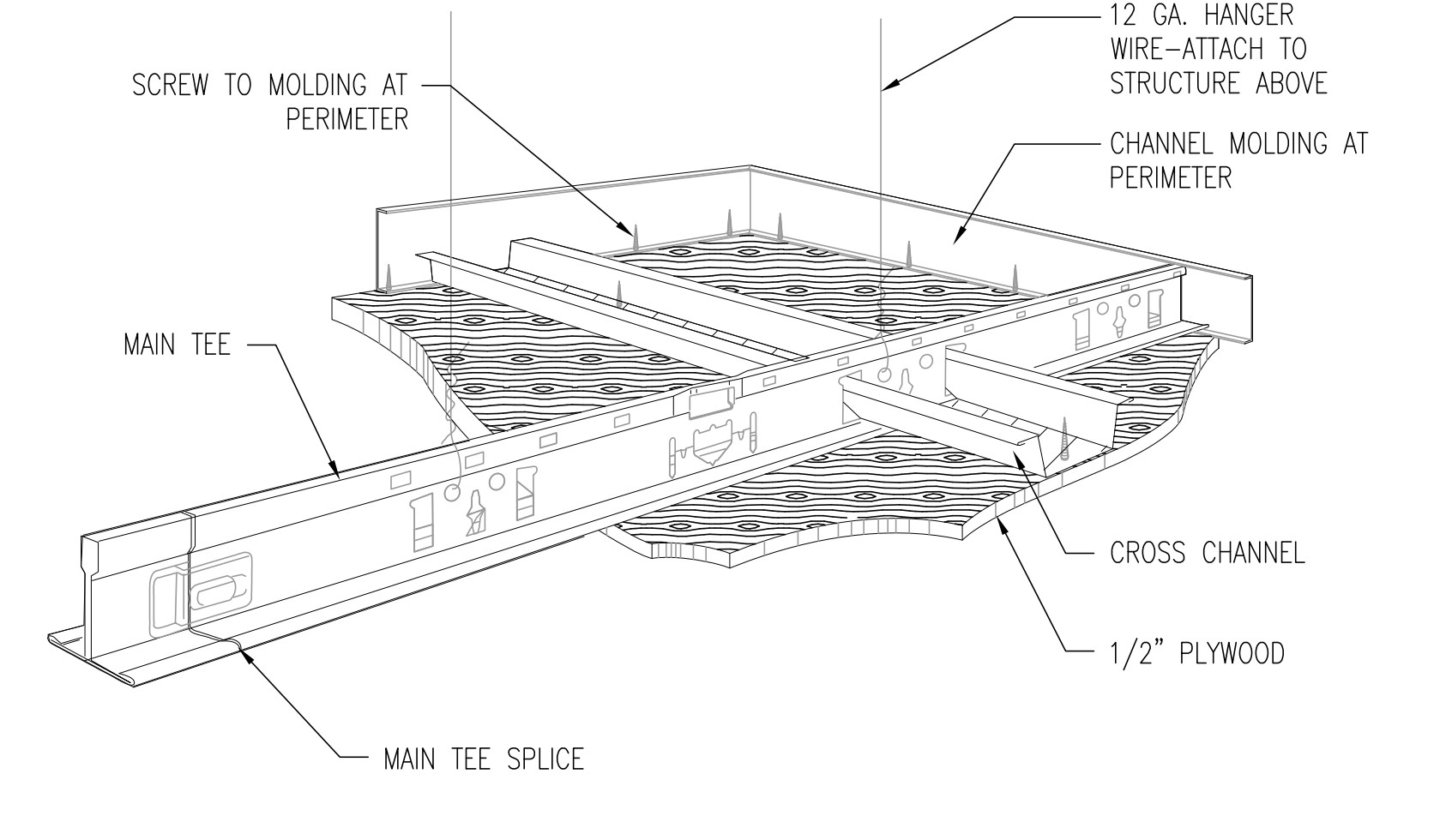
**7 PARCEL LOCKER KNOCK-OUT ELEVATIONS**  
SCALE: N.T.S.



**8 PARCEL LOCKER KNOCK-OUT WALL**  
SCALE: N.T.S.



**6 SUSPENDED GYPSUM BOARD DETAIL**  
SCALE: N.T.S.

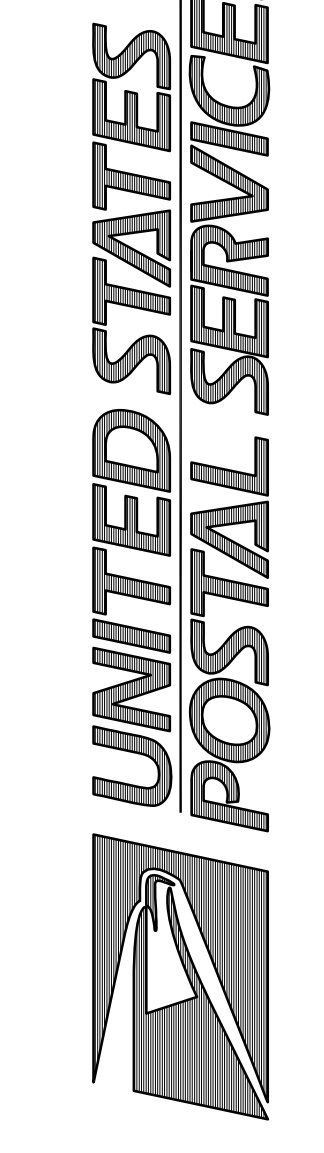


**9 SUSPENDED PLYWOOD CEILING DETAIL**  
SCALE: N.T.S.



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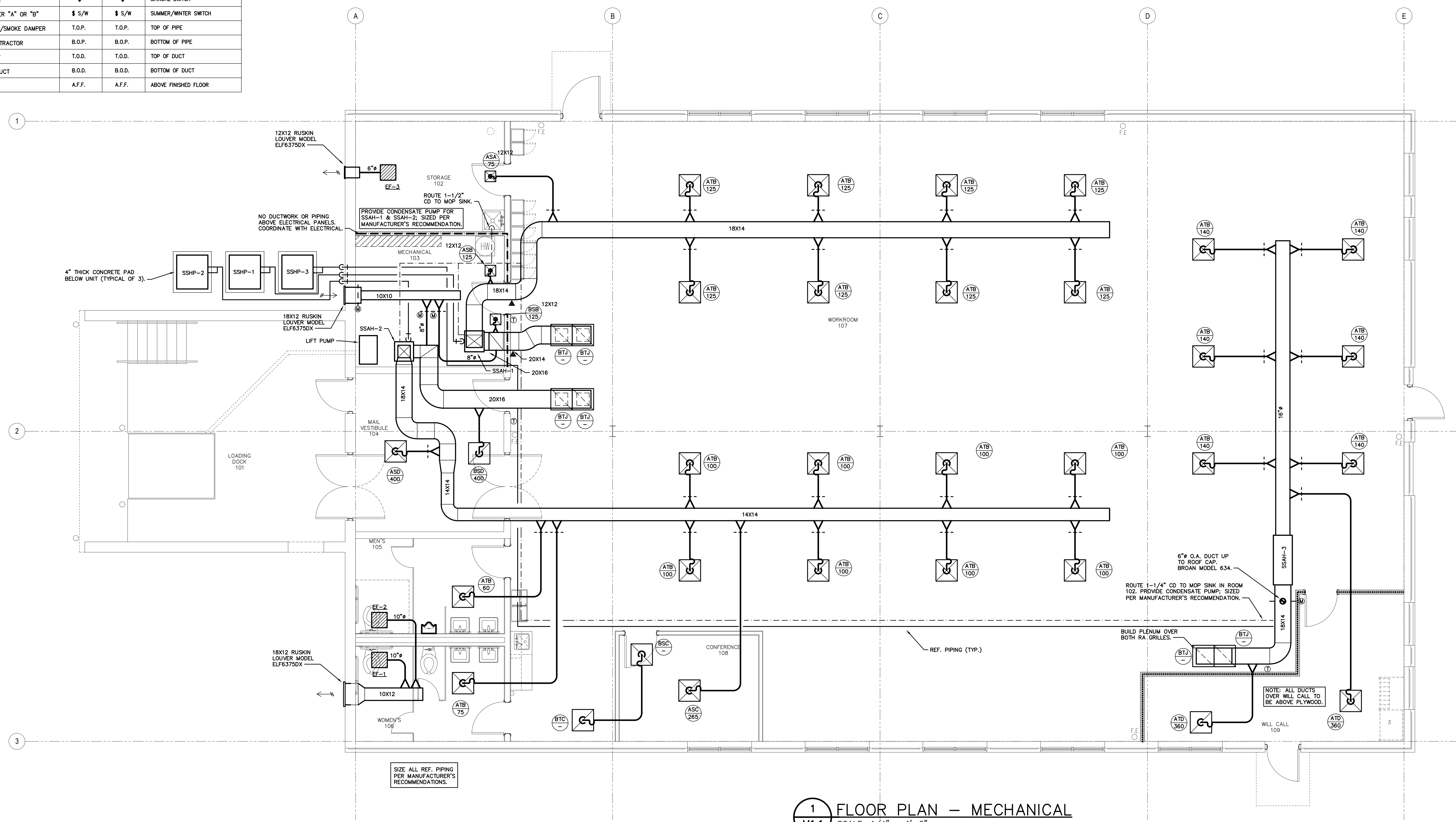
INTERIOR UPFIT  
USPS SPOUT SPRINGS NC CAX  
XXXXXXXXXX  
XXXXXXXXXX



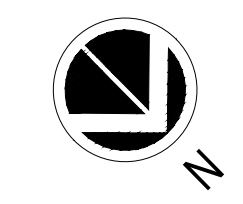
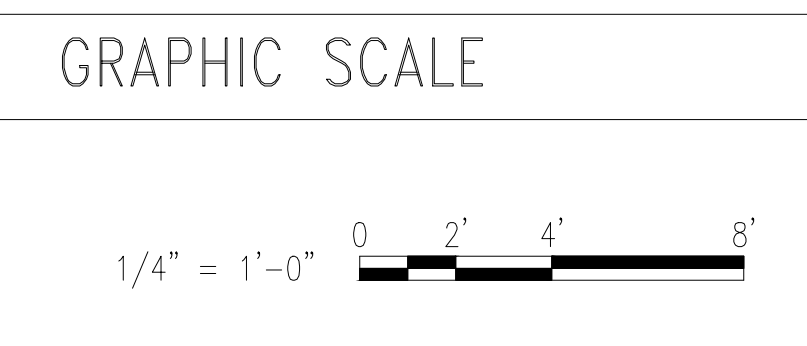
A7.3 Architectural Miscellaneous Details  
Scale: As Indicated Date: 5/17/2018  
Project: SPOUT SPRINGS INTERIOR UPFIT  
USPS File Number: XXXXXX  
USPS Project Number: 097932



MECHANICAL EQUIPMENT LEGEND			
SYMBOL		SYMBOL	
SINGLE LINE	DOUBLE LINE	SINGLE LINE	DOUBLE LINE
<b>LOW OR MEDIUM PRESSURE DUCTWORK</b>			
	10 X 12		DUCT TAKE-OFF: CONICAL
	SQUARE TO ROUND TRANS.		DUCT TAKE-OFF: RECTANGULAR
	FLEX DUCTWORK		TEE: LONG RADIUS
	ELBOW W/TURNING VANES		TEE: W/TURNING VANES
	LONG RADIUS ELBOW	<b>MISCELLANEOUS</b>	
	EXHAUST DUCT SECTION		THERMOSTAT
	SUPPLY DUCT SECTION		HUMIDISTAT
	OUTSIDE AIR DUCT SECTION		TEMPERATURE SENSOR
	RETURN/RELIEF AIR DUCT SECTION		CARBON DIOXIDE SENSOR
	TRANSFER AIR DUCT SECTION		COMBINATION FIRE/SMOKE DAMPER
	SHORT RADIUS VANED ELBOW		FIRE DAMPER
<b>LOW PRESSURE DUCTWORK</b>			
	DUCT TAKE-OFF: CONICAL		SMOKE DAMPER
	DUCT TAKE-OFF: RECTANGULAR		SMOKE DETECTOR
	TEE: LONG RADIUS		CONDENSATE DRAIN
	TEE: W/TURNING VANES		BACKDRAFT DAMPER
	**Y TAKE-OFF WITH SPLITTER DAMPER		MOTOR OPERATED DAMPER
	2-SIDED DUCT		DAMPER
	FIRE DAMPER "A" OR "B"		MANUAL SWITCH
	\$\$\$ S/W		SUMMER/WINTER SWITCH
	T.O.P.		TOP OF PIPE
	B.O.P.		BOTTOM OF PIPE
	T.O.D.		TOP OF DUCT
	B.O.D.		BOTTOM OF DUCT
	A.F.F.		ABOVE FINISHED FLOOR



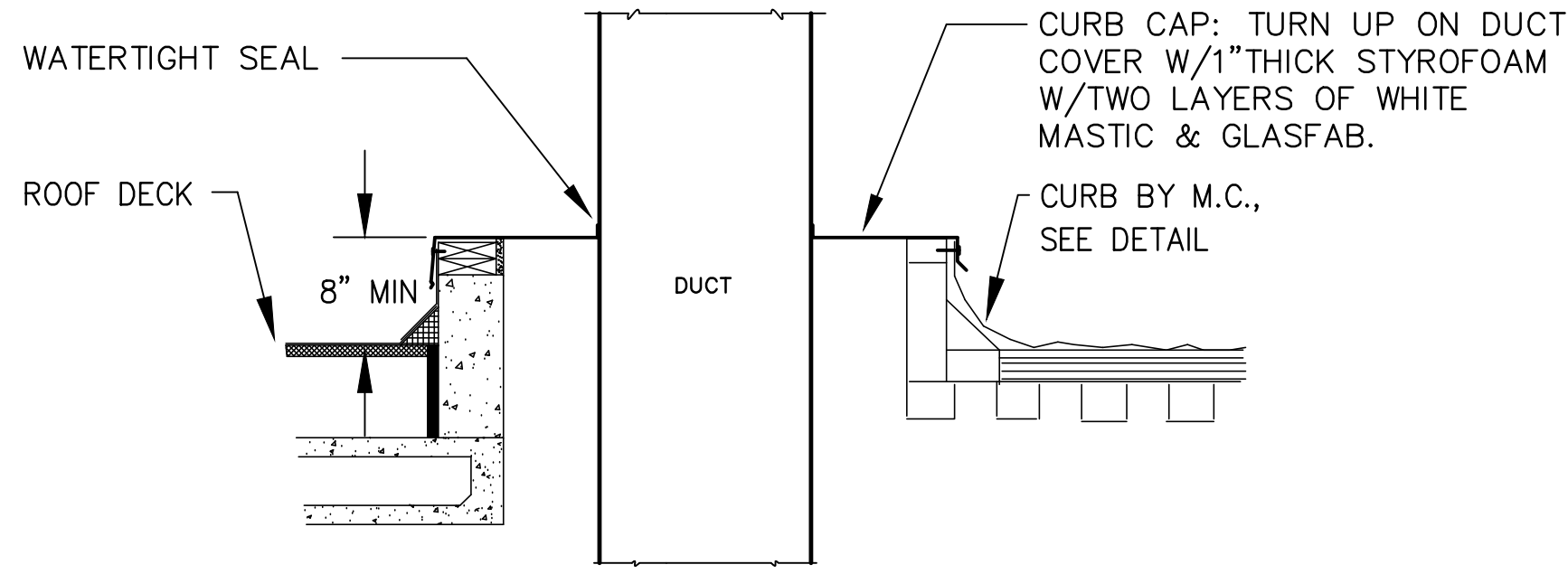
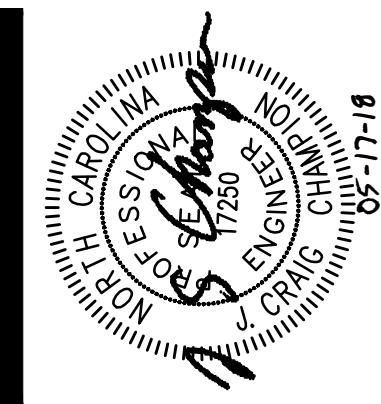
**1 FLOOR PLAN - MECHANICAL**  
M1.1 SCALE: 1/4" = 1'-0"



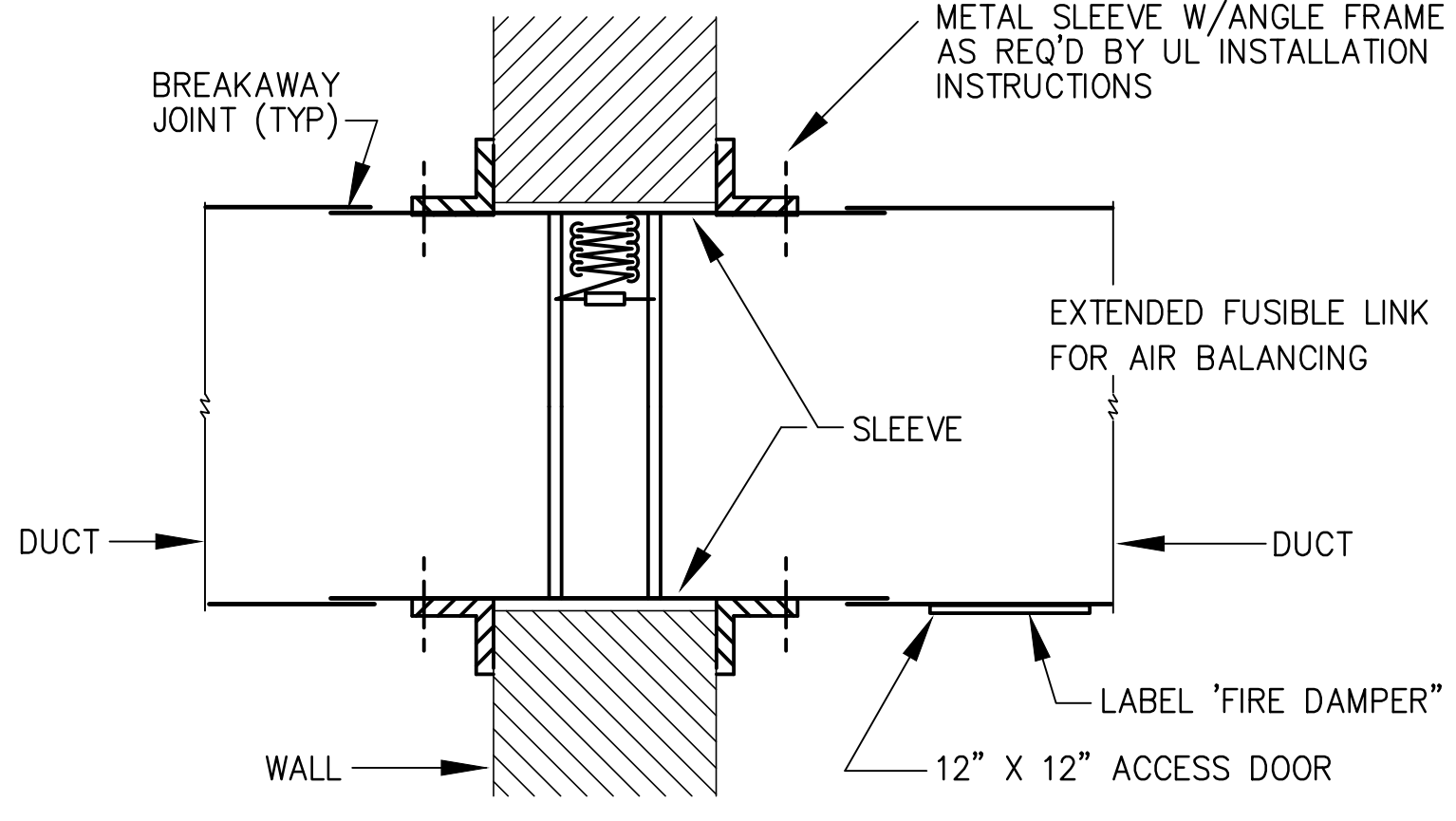




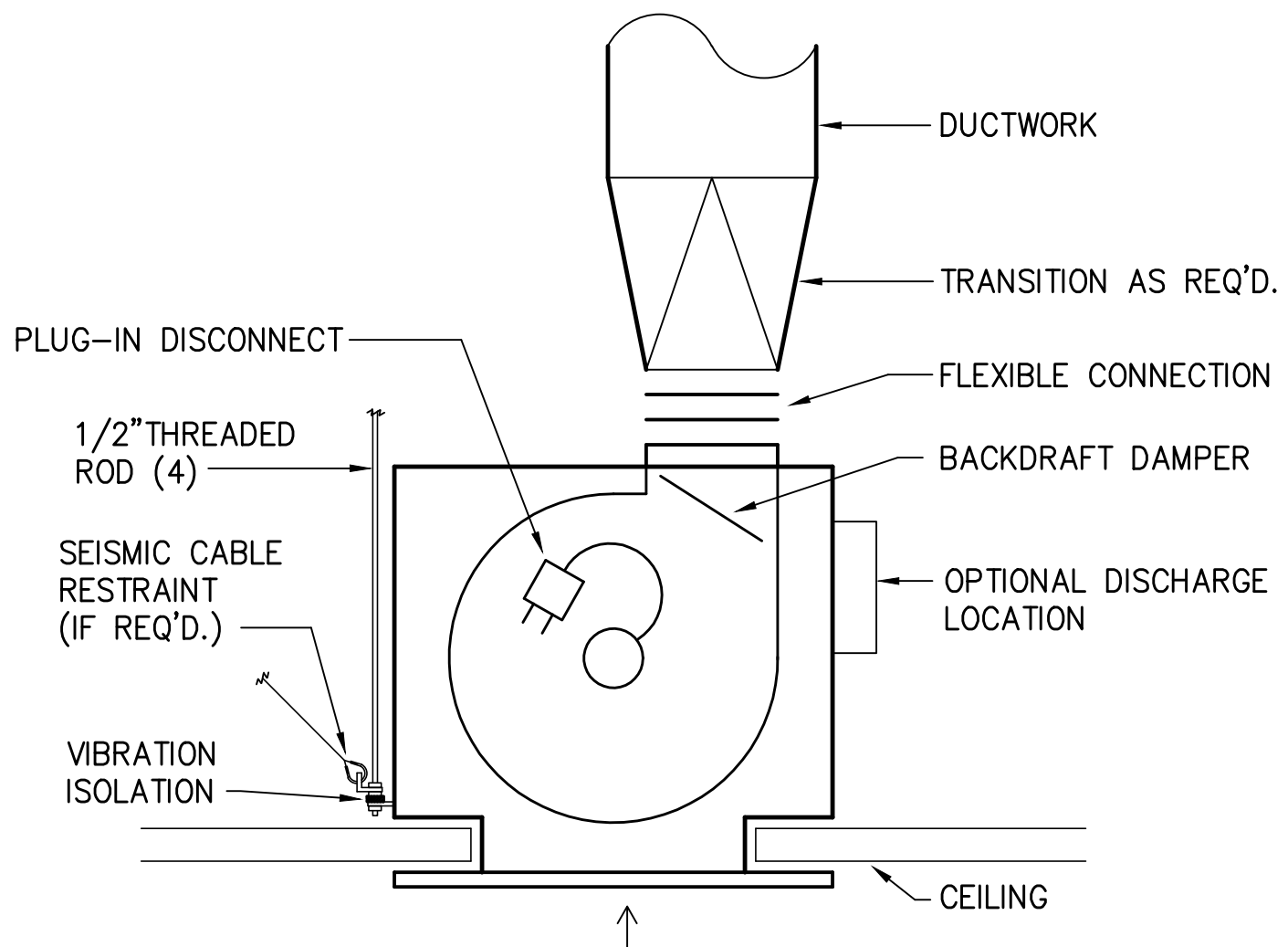




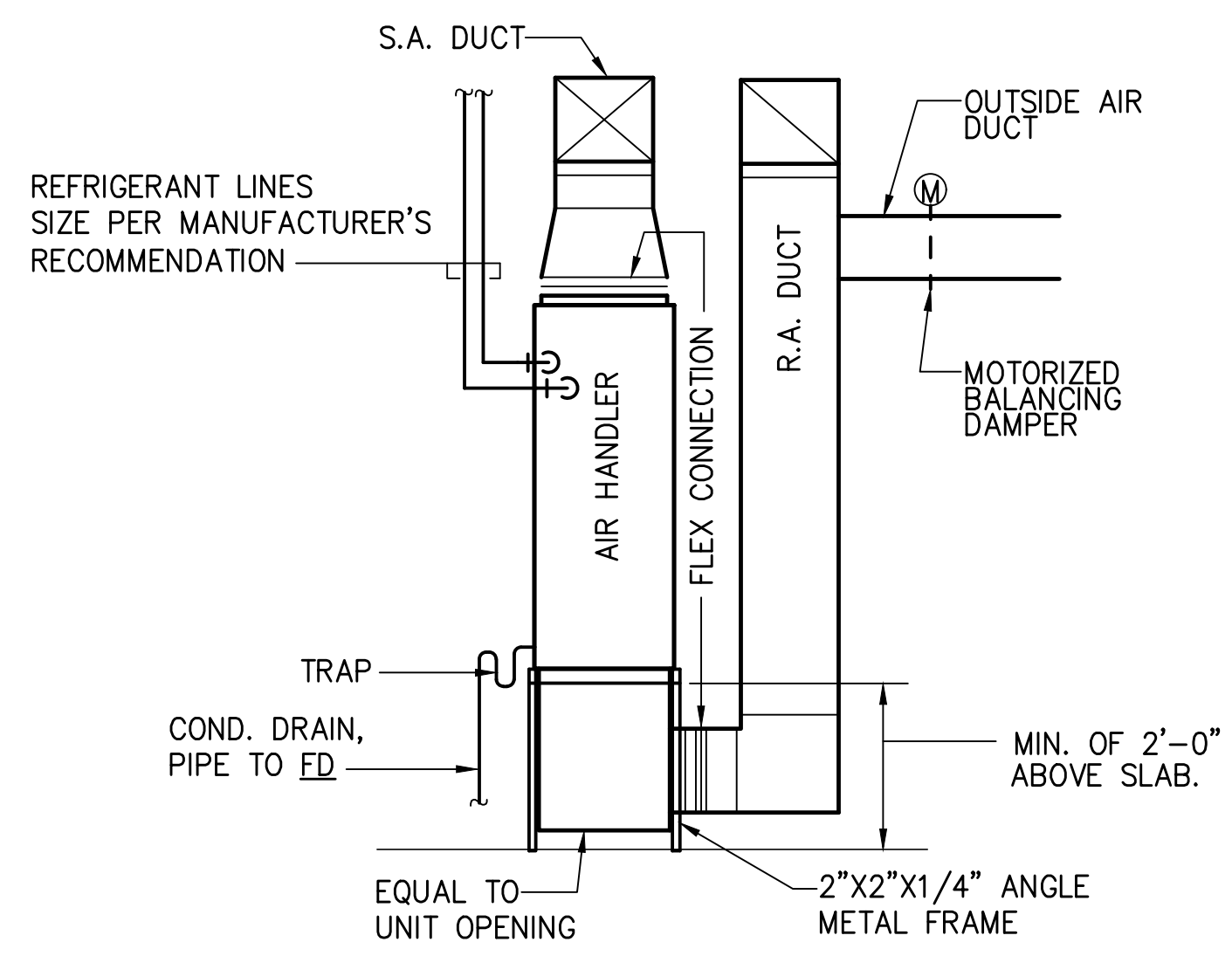
**11** DUCT THROUGH ROOF DETAIL  
M3.1 NTS  
NOTE: M.C. & G.C. TO COORDINATE SIZE & LOCATION OF ROOF OPENING.



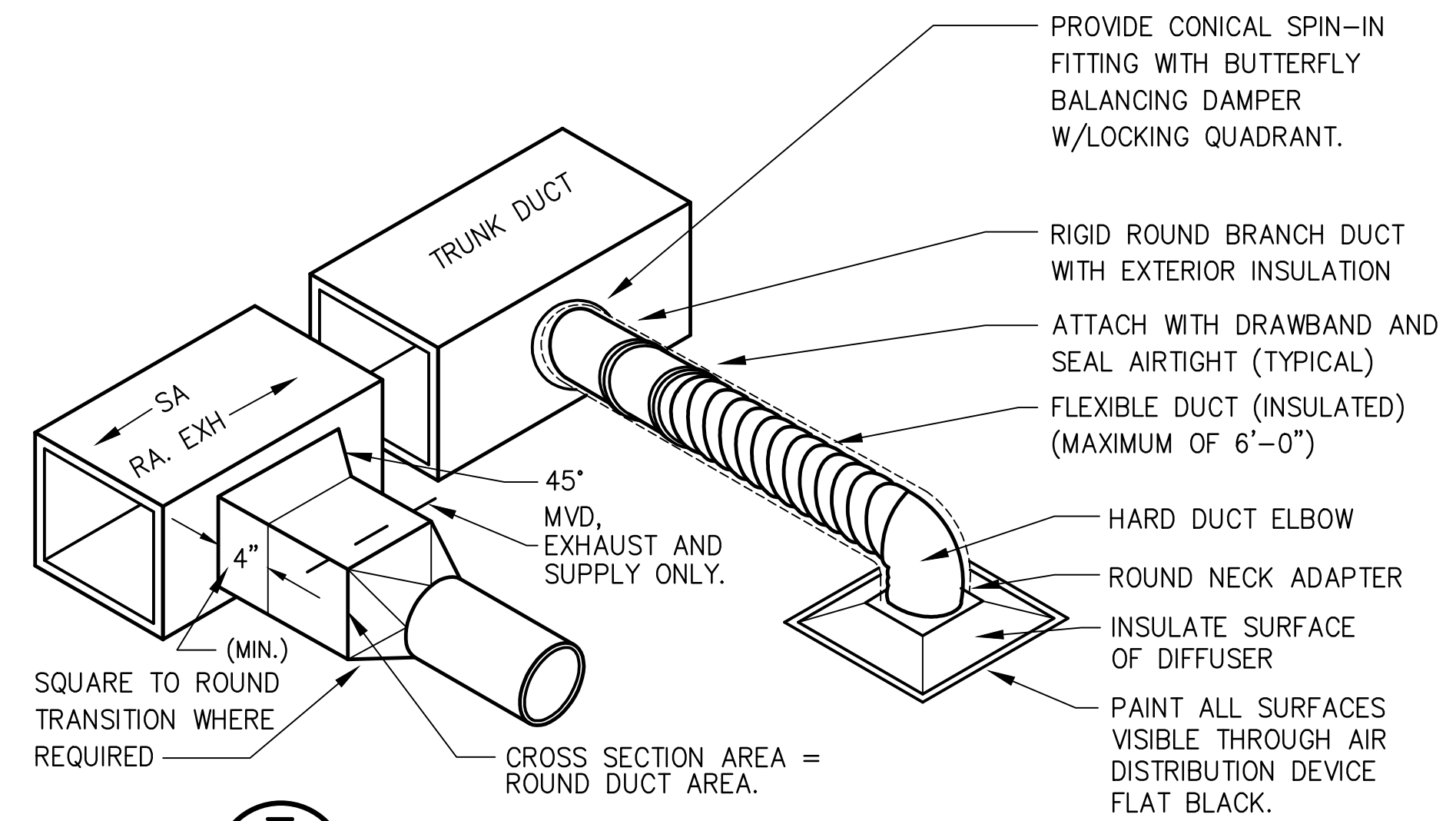
**10** FIRE DAMPER DETAIL (IN AIR STREAM) TYPE "A"  
M3.1 NTS  
NOTES: 1. FD"A" IS USED FOR LOW PRESSURE DUCT PENETRATIONS THRU FIRE-RATED WALLS (SEE SPECS FOR "LOW PRESSURE DUCT" DEFINITION). 2. FIRE-RATED WALLS ARE SHOWN ON PLANS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE THE NUMBER AND SIZE OF ALL DUCT PENETRATIONS THRU FIRE-RATED WALLS. 3. PLAN SYMBOL = . 4. THIS TYPICAL FIRE DAMPER DETAIL IS GENERIC GUIDANCE ONLY. INSTALL FIRE DAMPER IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION DETAILS. DO NOT VARY FROM THOSE INSTRUCTIONS IN ANY WAY. DO NOT FIRE STOP THE GAP BETWEEN THE FIRE DAMPER SLEEVE AND THE PENETRATION UNLESS SPECIFICALLY REQUIRED BY THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.



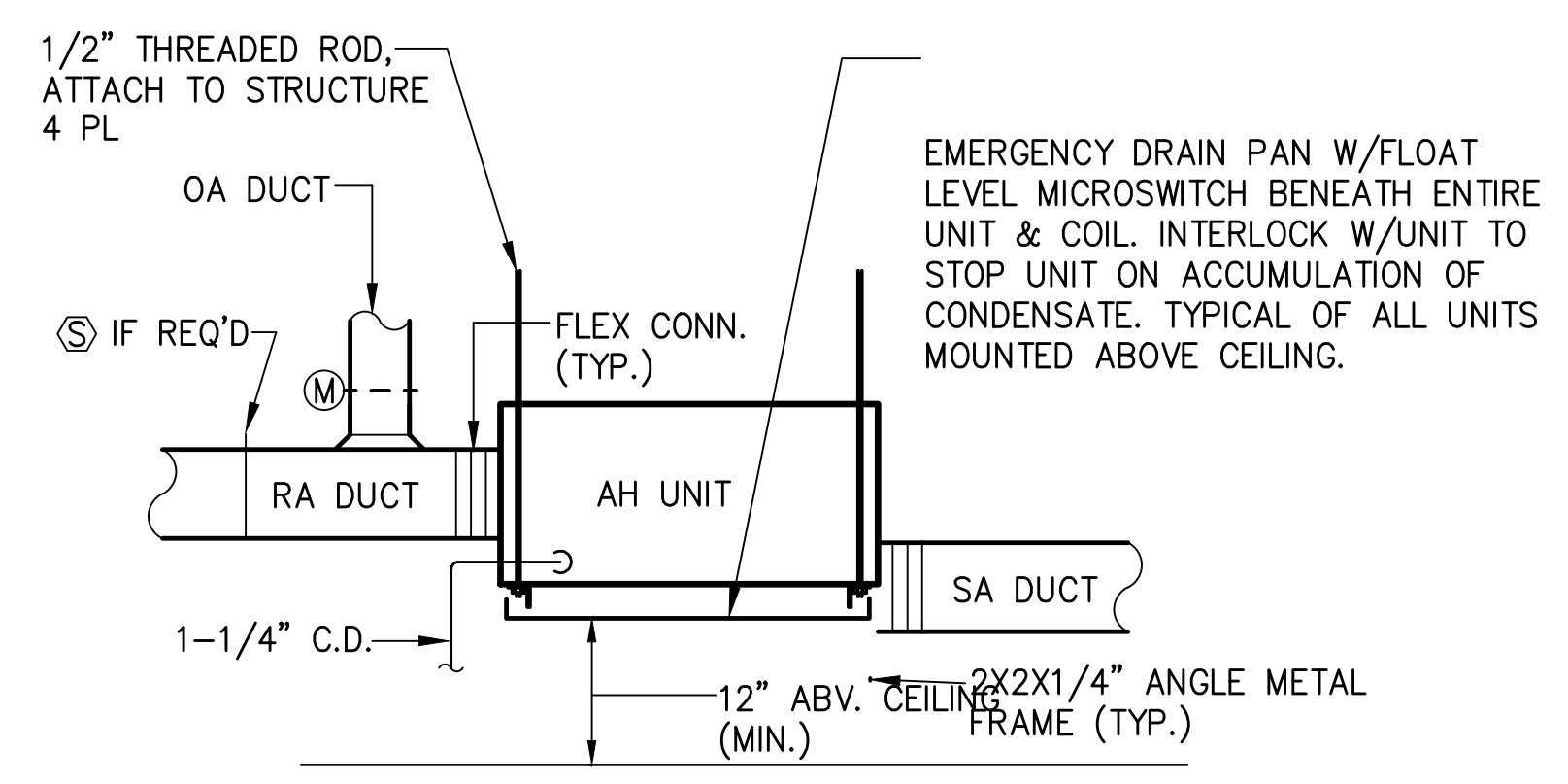
**9** CEILING EXHAUST FAN DETAIL  
M3.1 NTS



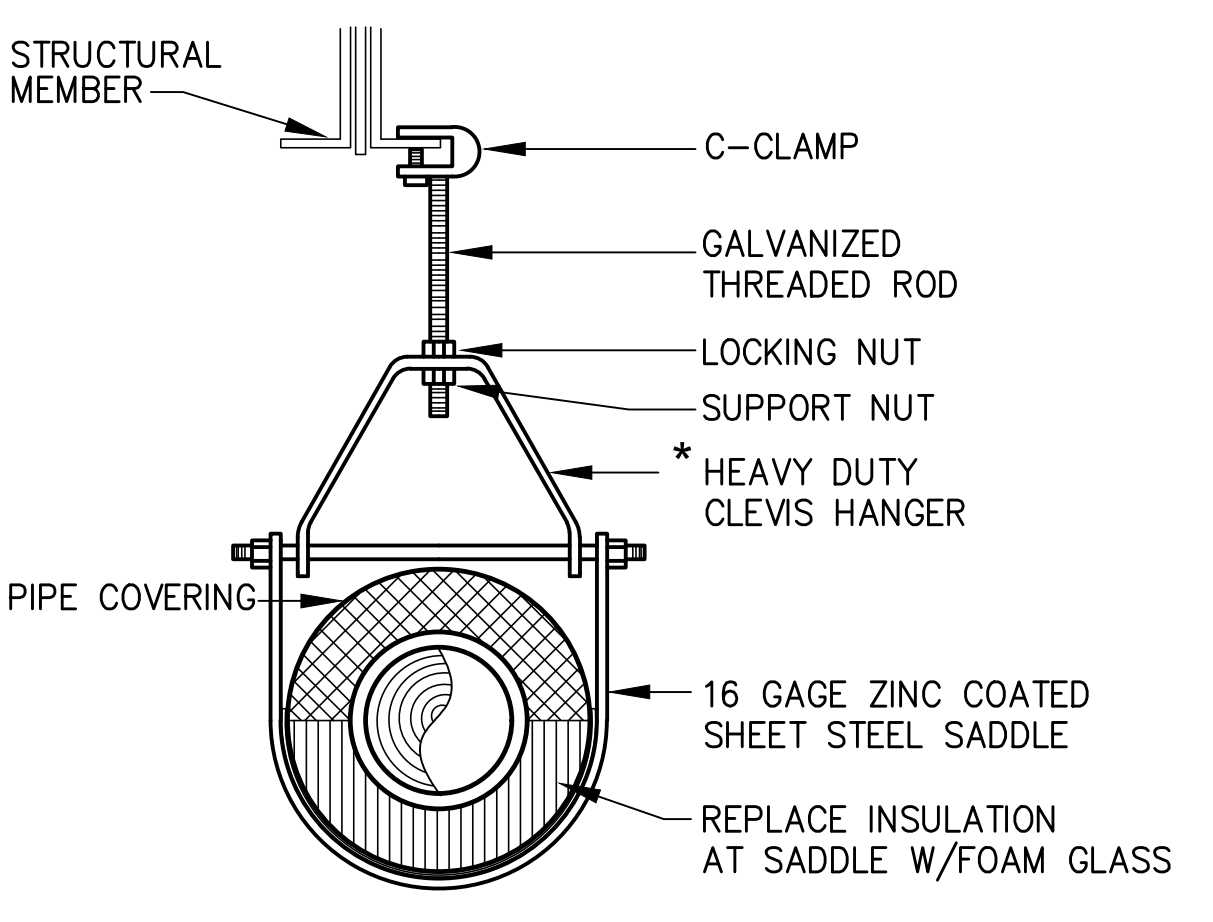
**8** SECTION @ TYPICAL AIR HANDLING UNIT  
M3.1 NTS



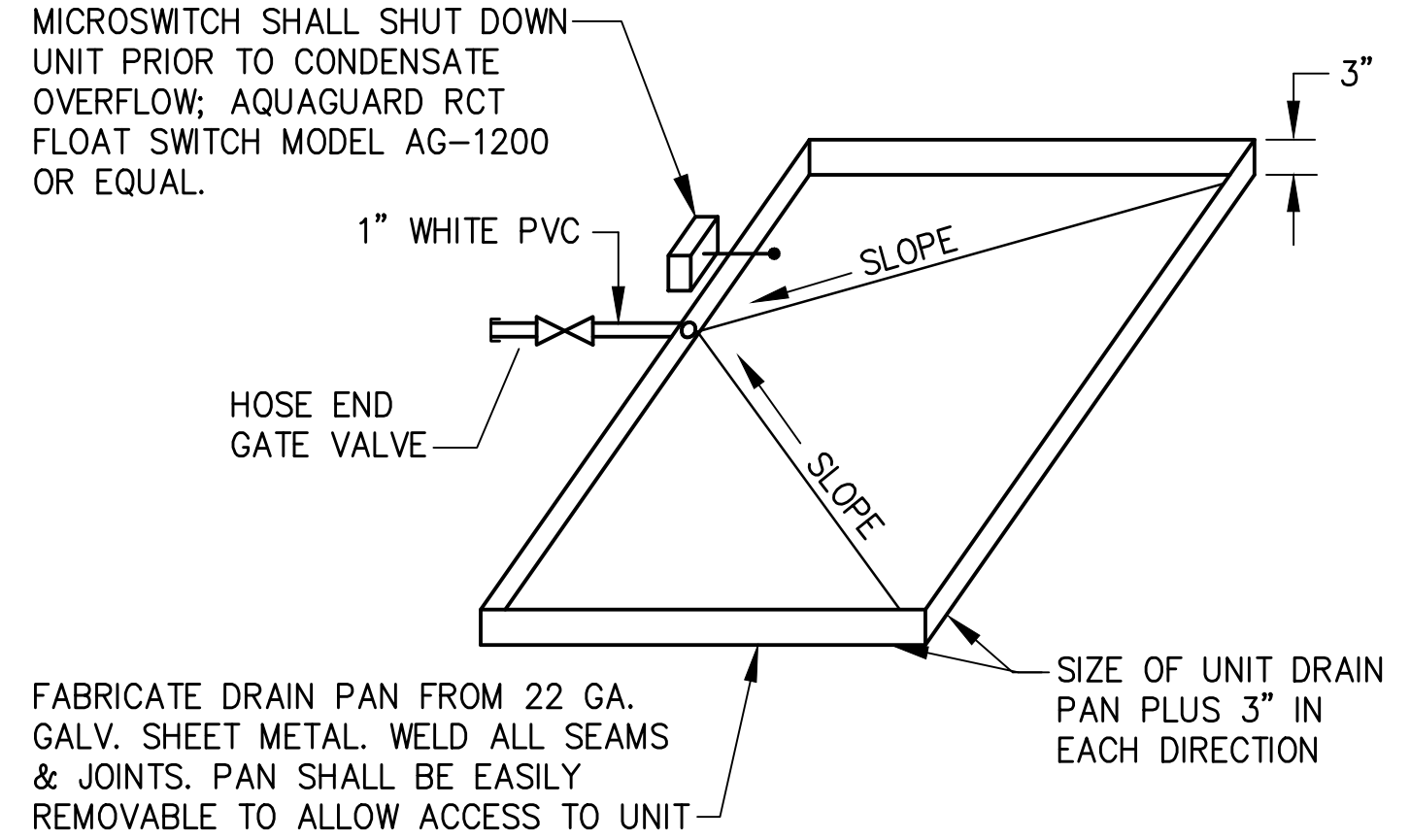
**7** DUCT TAKE-OFF DETAIL  
M3.1 NTS



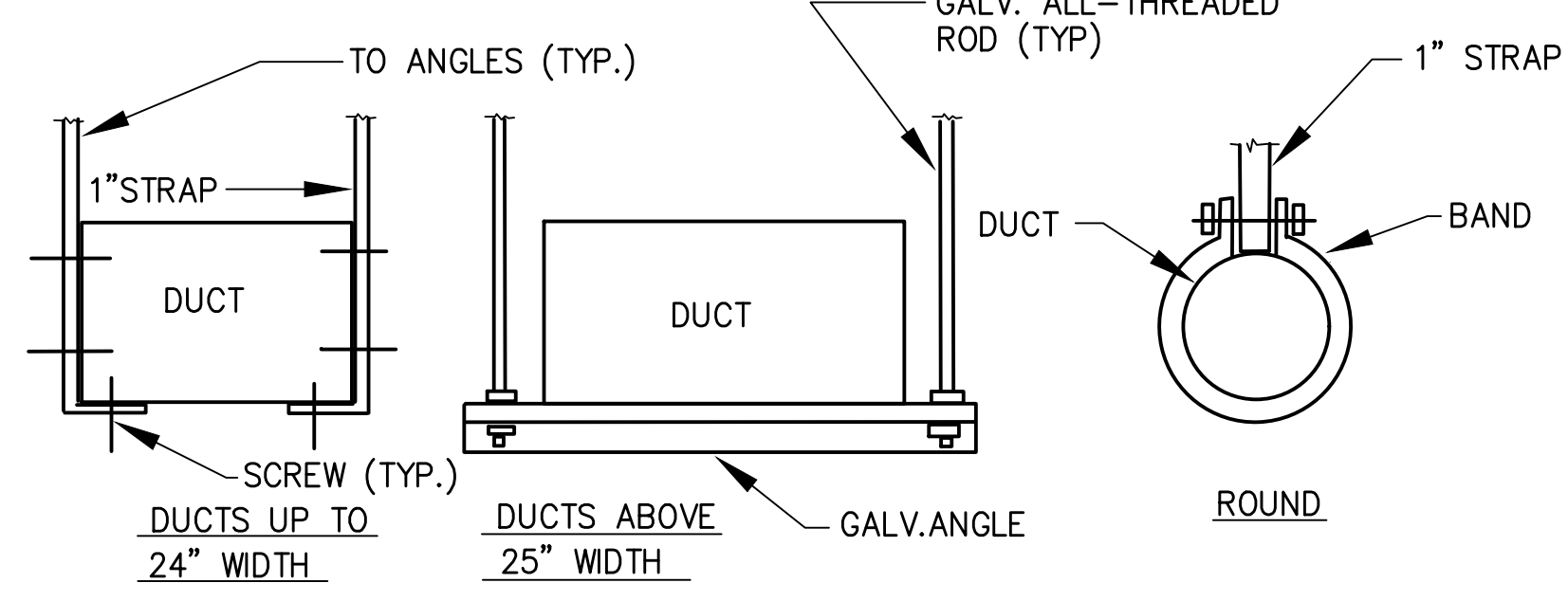
**6** SECTION AT AHU  
M3.1 NTS



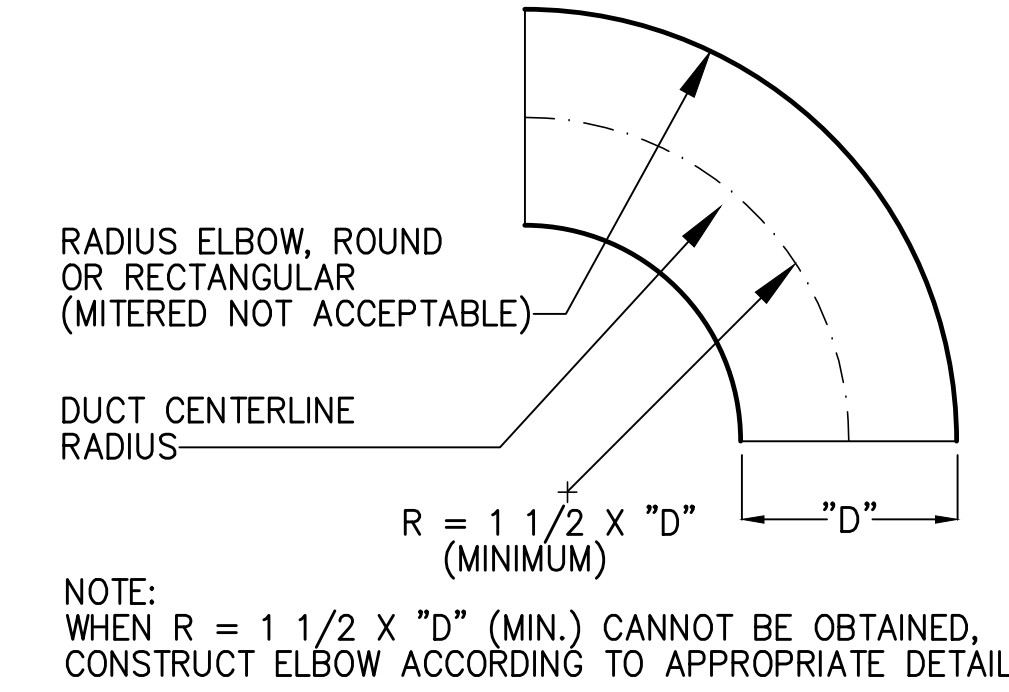
**5** PIPE HANGER DETAIL  
M3.1 NTS  
CONTRACTOR OPTION: MICHIGAN HANGER #403



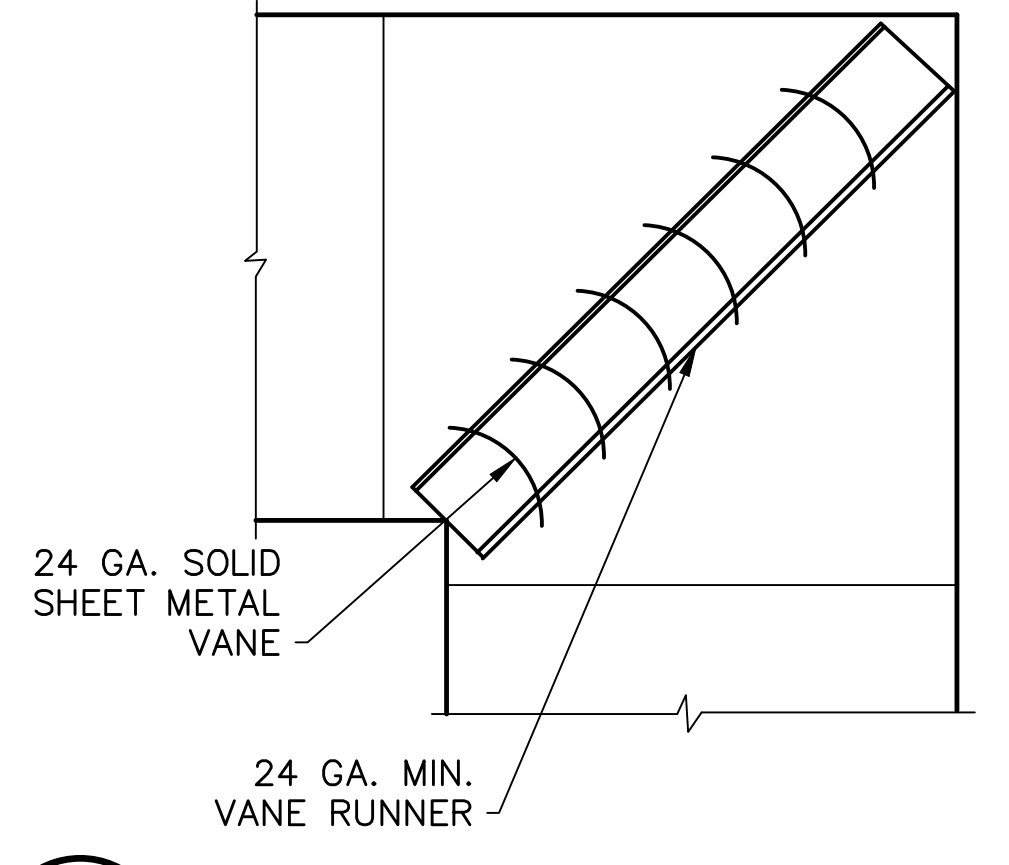
**4** AUXILIARY DRAIN PAN DETAIL  
M3.1 NTS



**3** DUCTWORK HANGER DETAILS  
M3.1 NTS



**2** RADIUS ELBOW DETAIL  
M3.1 NTS  
NOTE: WHEN R = 1 1/2 X "D" (MIN.) CANNOT BE OBTAINED, CONSTRUCT ELBOW ACCORDING TO APPROPRIATE DETAIL.



**1** TURNING VANE DETAIL  
M3.1 NTS  
PERMITTED ONLY WHERE RADIUS ELL WILL NOT FIT.

USPS GENERAL SPECIFICATIONS

(1) Scope

(a) This specification covers work done by the HVAC Contractor. It is the contractor's responsibility to determine which portion is applicable to his trade.

(b) The Contractor shall coordinate the work and equipment of this Division with the work and equipment specified elsewhere in order to assure a complete and satisfactory installation. Work such as flashing, wiring, etc., which is required by the work of this Section shall be performed in accordance with the requirements of the applicable Section of the specifications.

(c) It is the intention of these specifications and drawings to call for finished work, tested and ready for operation. Whenever the word "provide" is used, it shall mean "furnish and install complete and ready for use."

(d) Minor details not usually shown or specified, but necessary for the proper installation and operation, shall be included in the work, the same as in herein specified or shown.

(e) This Contractor is referred to the General Conditions Of The Contract For Construction. This document shall form a part of this specification and shall be binding on this Contractor by reference.

(f) Some items of equipment are specified in the singular; however, the Contractor shall provide and install the number of items of equipment as indicated on the drawings, and as required for complete systems.

(2) Contractor's Qualifications

(a) It is assumed that the Contractor has had sufficient general knowledge and experience to anticipate the needs of a construction of this nature. The Contractor shall furnish all items required to complete the construction in accordance with reasonable interpretation of the intent of the drawings and specifications. Any minor items required by code, law or regulations shall be provided whether or not specified or not specifically shown where it is a part of a major item of equipment, or of the control system specified or shown on the plans.

(3) Duties of Contractor

(a) Contractor shall furnish and install all materials called for in these specifications and accompanying drawings, and must furnish the apparatus complete in every respect. Anything called for in the specifications and not shown on the drawings or shown on the drawings and not called for in the specifications, must be furnished by the Contractor.

(b) Contractor is responsible for familiarizing himself with the details of the construction of the building. Work under these specifications installed improperly or which requires changing due to improper readings or interpretation of building plans shall be corrected and changed as directed by the Architect without additional cost to the Owner.

(c) The Contractor shall follow drawings in laying out work, check drawings of other trades to verify spaces in which work will be installed and maintain maximum headroom and space conditions at all points. Where headroom or space conditions appear inadequate, Architect shall be notified before proceeding with installation.

(d) The plans are diagrammatic and are not intended to show each and every fitting or a complete detail of all the work to be done; but are for the purpose of illustrating the type of system, showing duct sizes, etc., and special conditions considered necessary for the experienced mechanic to take off his materials and lay out his work. This Contractor shall be responsible for taking such measurements as may be necessary at the job and adapting his work to local conditions.

(e) Contractor shall determine the schedule of work as determined by the General Contractor and must schedule his work to maintain the building construction schedule so as not to interfere with or hold up any other Contractors.

(4) Codes, Rules, Permits and Fees

(a) The Contractor shall give all necessary notices, obtain all permits and pay all sales taxes, fees and other costs, including utility connections or extensions, in connection with his work; file all necessary plans, prepare all documents and obtain all necessary approvals of all authorities having jurisdiction, obtain all required certificates of inspection for his work and deliver same to the Architect before request for acceptance and final payment of the work.

(b) The Contractor shall include in his work, without extra cost to the Owner, any labor, materials, service, apparatus, drawings, in order to comply with all applicable laws, ordinances, rules and regulations whether or not shown on drawings and/or specified.

(c) All materials furnished and all work installed shall comply with the National Fire Codes of the National Fire Protection Association, and with the requirements of all governmental departments having jurisdiction.

(d) All work shall be done in accordance with the North Carolina State Building Code, and requirements of governmental agencies having jurisdiction.

(5) Guarantee

(a) The Contractor shall guarantee the complete mechanical system against defect due to faulty materials, faulty workmanship or failure due to negligence of the Contractor. This guarantee will exclude normal wear and tear, maintenance lubrication, replacement of expendable components, or abuse. The guarantee period shall begin on the date of the final acceptance and shall continue for a period of 12 months during which time the Contractor shall make good such defective workmanship and materials and any damage resulting therefrom, within a reasonable time of notice given by the Owner. Refrigeration compressor shall have a five year warranty.

(6) Record Drawings

(a) The Contractor shall furnish record drawings indicating any and all changes in locations of ductwork or equipment from that shown on the Contract Drawings. The drawings shall consist of clean, legible prints of the Contract Drawings, available from the Architect on which the Contractor shall mark all notes, dimensions, sizes and information required. The prints shall be kept for this purpose only. Before final inspection the Contractor shall submit the Record Drawings to the Architect.

(7) Safety Requirements

(a) Comply with all O.S.H.A. requirements.

(8) Materials and Workmanship

(a) All materials and apparatus required for the work, except as specified otherwise, shall be new, of first-class quality, and shall be furnished, delivered, erected, connected and finished in every detail, and shall be so selected and arranged as to fit properly into the building space. Where no specific kind or quality of material is given, a first-class standard article as approved by the Architect shall be furnished.

(b) All work must be done by first-class and experienced mechanics properly supervised and it is understood that the Architect has the right to stop any work that is not being properly done and has the right to demand that any workman deemed incompetent by the Architect be removed from the job and a competent workman substituted therefor.

(9) Equipment Deviations

(a) The Contractor must use the equipment specified in the plans and specifications or equal equipment as supplied by those manufacturers specifically named as equal.

(10) Shop Drawings

(a) The Contractor shall submit for approval four (4) sets of detailed shop drawings of all equipment and all material required to complete the project, and no materials or equipment may be delivered to the job site or installed until the Contractor has in his possession the approved shop drawings for the particular material or equipment. The shop drawings shall be complete as described herein. The Contractor shall furnish the number of copies required by the General and Special Conditions of the Contract, but in no case less than six (6) copies. Shop drawings shall bear approval of Contractor.

(b) Approval rendered on shop drawings shall not be considered as a guarantee of quantities, measurements, or building conditions. Where drawings are approved, said approval does not in anyway relieve the Contractor from his responsibilities or necessity of furnishing material or performing work as required by the Contract Drawings and specifications.

(11) Observation

(a) The project will be observed periodically as construction progresses. The contractor will be responsible for notifying the Architect at least 72 hours in advance when any work to be covered up is ready for inspection. No work will be covered up until after observation has been completed on such items as piping and insulation, etc.

(12) Accessibility

(a) Contractor shall be responsible for the adequate clearance in hung ceilings for the proper installation of his work. He shall cooperate with the General Contractor and all other Contractors whose work is in the same space, and shall advise the General Contractor of his requirements. Such spaces and clearances shall, however, be kept to the minimum size required.

(b) The Contractor shall locate all equipment which must be serviced, operated or maintained in fully accessible positions. If required for better accessibility, furnish access doors for this purpose. Minor deviations from drawings may be allowed for better accessibility and any change shall be submitted for approval.

(13) Protection

(a) The Contractor shall protect all work and material from damage, and shall be liable for all damage during construction.

(14) Foundations, Supports, Piers, Attachments.

(a) All equipment, unless otherwise shown, shall be securely attached to the building structure in an approved manner by this contractor. Attachments shall be of a strong and durable nature and any attachments that are, in the opinion of the architect/engineer not strong enough shall be replaced as directed.

HVAC SPECIFICATIONS

Low Pressure Ductwork.

Ductwork shall be constructed of zinc coated sheet steel and shall conform to the 1st edition of SMACNA HVAC duct construction standards—metal and flexible, 1985 as follows:

Rectangular duct: 1" w.g. Pressure class — table 1-4.

Round duct: 2" w.g. Pressure class — table 3-2.

All ductwork must be sealed in accordance with seal class c as defined in SMACNA HVAC duct construction standards—metal and flexible, 1985.

Duct hangers and supports shall conform to those shown in tables 4-1 and 4-2 of SMACNA HVAC ductwork 1985, 1st edition.

Round Ductwork.

Round ductwork shall be prefabricated spiral lock seam conduit with prefabricated fittings as manufactured by united sheet metal co., inc. Or equal. Construction shall be airtight and shall be manufactured from galvanized steel meeting astm a-517-67. Fittings shall be manufactured to published standards for dimensions and construction details. Installation manuals shall be supplied to the contractor to provide detailed instructions on methods and procedures for assembly. All seams in all fittings are to be continuously welded. Galvanized areas that have been damaged by welding shall be coated with corrosion resistant aluminum paint. Openings for grille mounting shall be factory cut and framed for the grille mounting bracket and the framing shall not have excessive welding that will be noticeable beyond the grille frame. All joints shall be sealed using Benjamin Foster 30-02 sealed between screwed metal seams banded with fiberglass tape.

Double Wall Spiral Duct.

Duct shall be prefabricated spiral lock seam conduit with prefabricated fittings as manufactured by United Sheet Metal co., inc. Or equal.

Construction shall be an airtight, outer pressure shell, a 1" insulation layer, and a perforated metal inner liner that completely covers the insulation throughout the system. The outer shell shall be manufactured from galvanized steel meeting ASTM a-517-67.

Fittings shall be manufactured to published standards for dimensions and construction details. Installation manuals shall be supplied to the contractor to provide detailed instructions on methods and procedures for assembly.

All seams in the pressure shell of all fittings are to be continuously welded. Galvanized areas that have been damaged by welding shall be coated with corrosion resistant aluminum paint.

Inner liners of both duct and fittings are to be adequately supported by metal spacers welded in position to maintain spacing and concentricity.

Provide an inner coupling to align the inner lining to maintain good air flow conditions equivalent to standard round high pressure duct joints.

Openings shall be factory cut and framed for the grille mounting bracket and the framing shall not have excessive welding that will be noticeable beyond the grille frame.

All exposed duct shall be mill phosphatized so as to accept painting by the general contractor.

90 degree elbows shall be 5 piece gored elbows.

All joints shall be sealed using benjamin foster 30-02 sealed between screwed metal seams banded with fiberglass tape.

Ductwork Installation.

All ductwork shall be provided in a neat workmanlike manner. The ducts shall be properly braced and reinforced. All slip joints shall be made in the direction of flow. All ducts shall be true to the dimension indicated and shall be straight and smooth on the inside with neatly finished airtight joints. The ducts shall be securely anchored into the building construction in an approved manner and shall be completely free from vibration under all conditions of operation. All supply, return fresh-air and exhaust systems shall be completely balanced.

No duct transformation shall be of a ratio less than four to one and where possible, shall be of a ratio of six to one. No less than three vertical splitters shall be provided where these ratios cannot be met. No elbow shall have a throat center line radius of less than one and one-half times the duct width at the turn. All turns of less than this amount in rectangular duct shall be provided with duct turning vanes of standard design. Splitters or multi-blade volume dampers, where indicated, shall be provided in all branch.

Turning vanes shall be provided at all tees and square elbows. Turning vanes shall be factory fabricated and designed in accordance with the smacna or ashrae guide for formed vanes. The first set of turning vanes on the leaving side of fans shall be of the acoustical type to aid in the elimination of unit noise with the exception of room fan coil units.

Splitter dampers and volume extractors shall be provided in all low velocity ductwork for proper air distribution. Each damper shall be provided, lubricated bearings at both ends of the shafts, adjustments quadrant, and locking devices and shall be constructed of galvanized iron or steel sheet one gauge heavier than the duct in which they are installed. Access doors shall be located at all splitter dampers.

Handholes of not less than 6" x 6" shall be provided at all points where access is required. Manholes of not less than 18" x 24" shall be provided at all points where it is necessary to clean or remove parts of equipment. All access doors and handholes shall be rubber gasketed insulated type with frame and latches.

Install access doors at each fire damper and smoke detector. Label all access doors.

All ductwork must be sealed in accordance with seal class c as defined in smacna hvac duct construction standards — metal and flexible, 1995.

Duct Hangers and Supports.

Duct hangers and supports shall conform to those shown in tables 4-1 and 4-2 of smacna hvac ductwork 1985, 1st edition.

Duct Leakage Test.

After installation and prior to insulating, the contractor shall perform in the presence of the engineer a duct leakage test on all rigid medium pressure duct. Contractor shall notify the engineer 72 hours in advance when this test shall be applied. The contractor may at his option test portions of the duct system in lieu of testing the entire system at once.

The installed medium pressure duct system shall be tested to 3" wg.

The air leakage at the test pressure shall be measured by a calibrated office type flow meter. Total allowable leakage of the system shall not exceed 1/2 of 1% of the air handling capacity of the system.

If the system is tested in sections, the leakage rates shall be added to give the performance of the whole system.

Leakage concentrated at one point may result in objectionable noise even if the system passes the leakage rate criteria. Noise sources must be corrected to the satisfaction of the engineer.

The orifice flow measurement device must have individually calibrated against a primary standard, and this calibrated curve permanently attached to the orifice tube assembly.

Duct Insulation.

Insulation shall be Owens-Corning, certain-teed/st. Gobain, manville or approved equivalent. Adhesives shall be as manufactured by 3-m foster or insulation manufacturer. Insulation shall have composite (insulation, jacket and adhesive) fire and smoke hazard rating as tested by astm e-84, not exceeding flame spread -25 and smoke developed -50.

All vapor barriers and joints shall be sealed to prevent condensation. Clean and dry all ductwork before installing insulation. All weld joints shall be fire brushed and give one (1) coat of red lead before insulating. Staples will not be permitted in insulation.

All supply duct shall be externally insulated with fiberglass ductwrap insulation, 2" thick, 1.5# density. Ductwrap shall be provided by manufacturer with a white exterior jacket to match existing ductwrap, mechanical contractor to field verify existing ductwrap. Duct insulation system shall meet requirements of nfpca 90a and shall have ul fire hazard classification not to exceed the following: flame spread - 25; fuel contributed - 50; smoke generated -50. Insulation shall be applied to the sheet metal with 100% coverage. On horizontal runs, tops of ducts over 12" in width and sides of 16" in height shall be additionally secured with mechanical fasteners. On spans over 30", fasteners are to be placed at midpoints. On vertical runs, fasteners shall be placed on a maximum of 15" centers on all width dimensions over 12". Fasteners shall be flush with the surface. All ductwork shall be covered with an 8 oz. Canvas jacket or an embossed point grip metal jacket to accept final painting by the g.c.

Controls.

Provide 7 day programmable thermostat for each system.

Testing and Balancing.

Work shall be performed by technicians competent in the trade of testing and balancing environmental systems and shall be done in an organized manner utilizing appropriate test and balance forms. All equipment shall be balanced to within +/- 10% of the scheduled value.

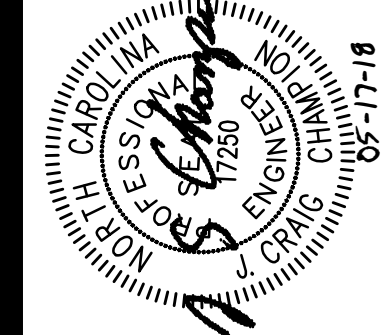
Instruments for use in the test and balancing procedures shall be of first quality and be accurately calibrated at the time of use. All field instruments used in the balance should have been calibrated at least within the previous three months.

Starting date for mechanical system shall be scheduled well in advance of expected completion date and shall be established a minimum of two weeks prior to acceptance date. The system shall be in full operation with all equipment functional prior to acceptance date.

Performance readings shall be taken and recorded on all air distribution devices and the system shall be balanced out prior to acceptance. Balancing of the system shall be accomplished with duct dampers and only minor adjustments made with grille dampers. Record and submit results in table form along side of scheduled quantities.

All controls shall be calibrated by qualified personnel prior to acceptance date. Thermostats shall be in close calibration with one another and shall operate their respective units without interference from adjacent units.

All units shall be checked out thoroughly and the information recorded on each machine. Check sheets shall be included in operating and maintenance instructional manual.



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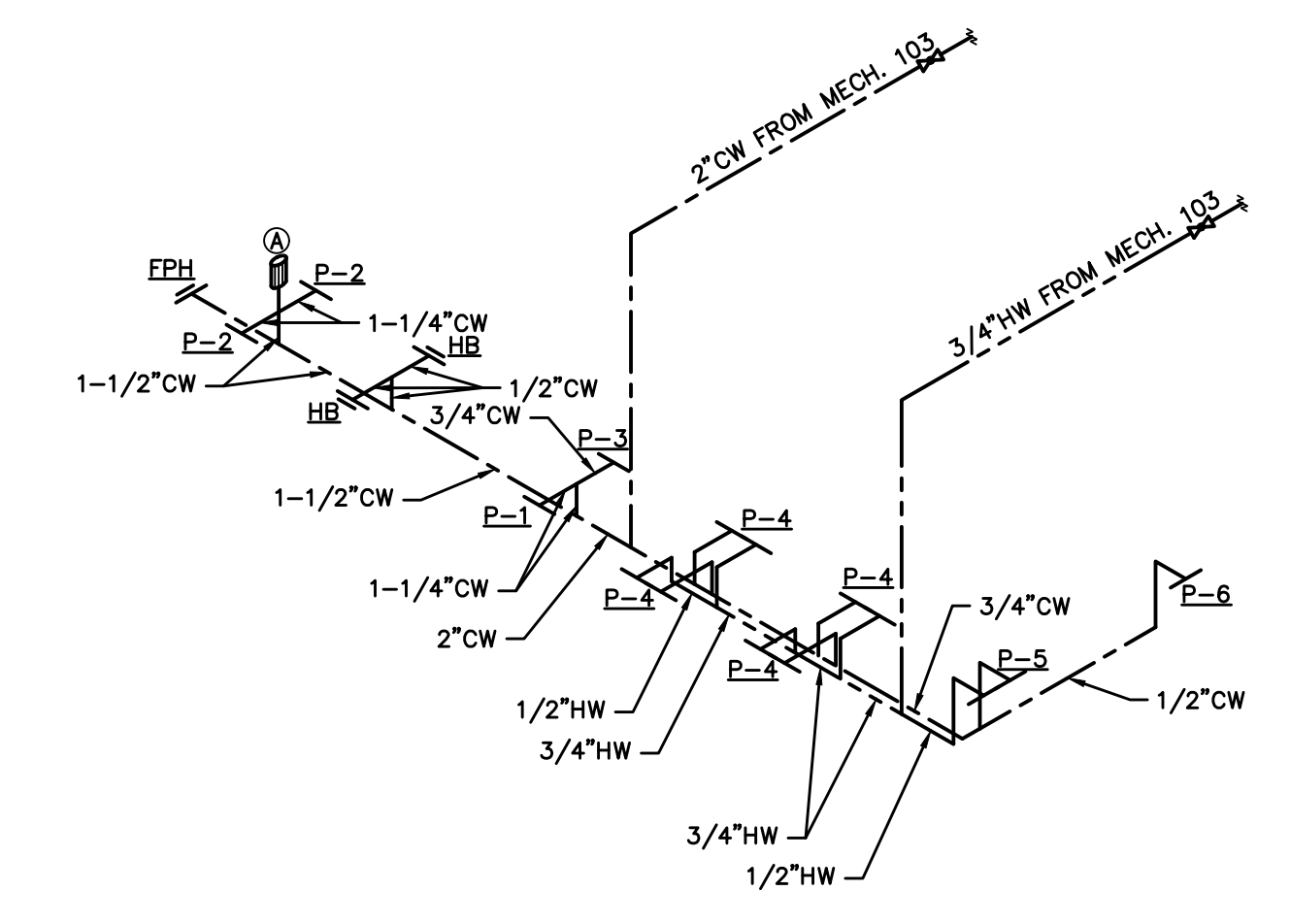
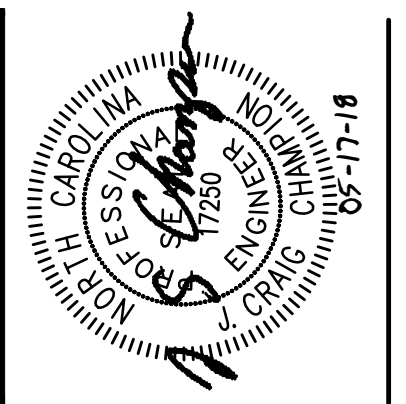
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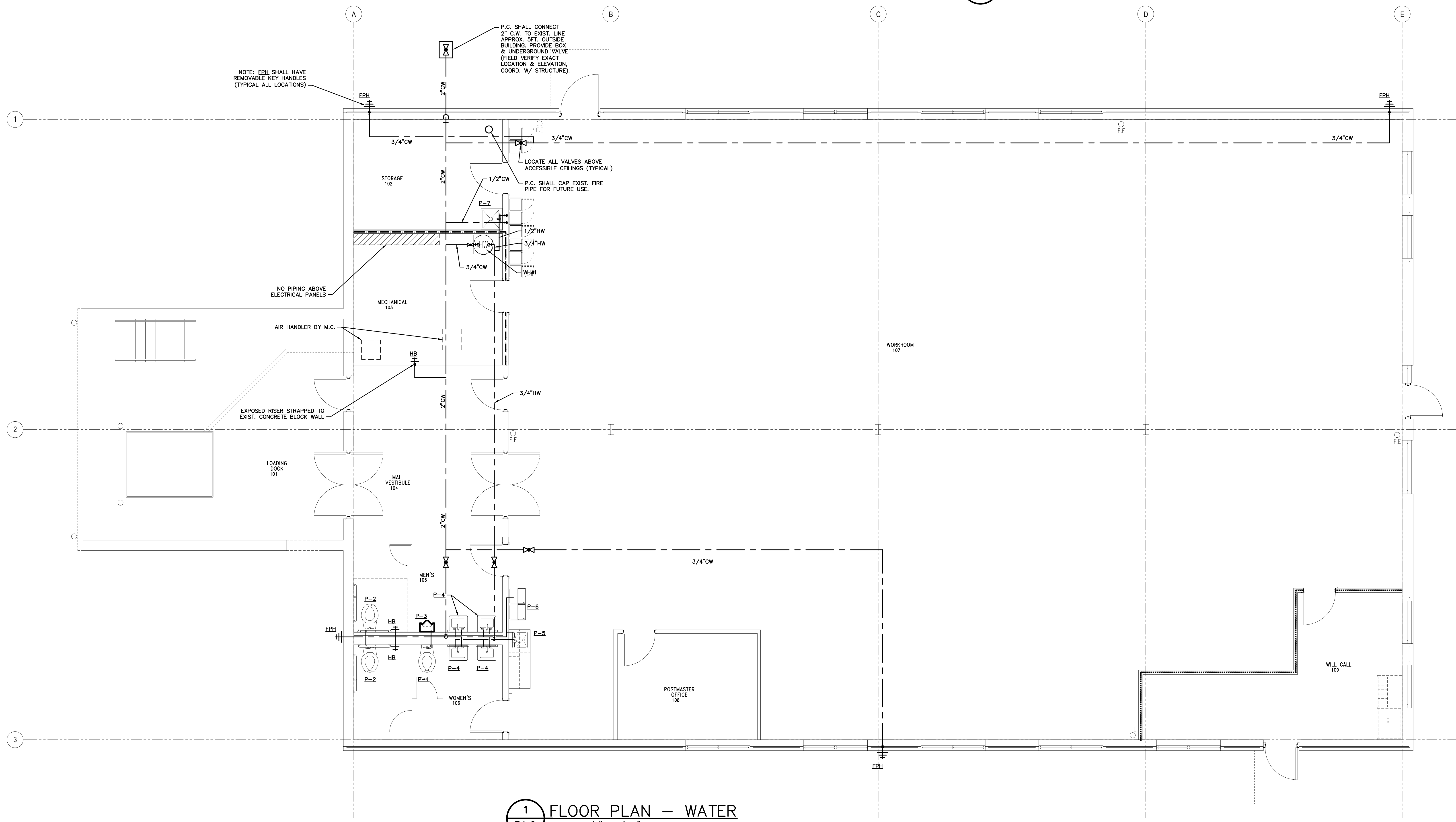
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Columbia, MD 21045-0701

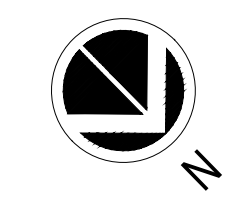
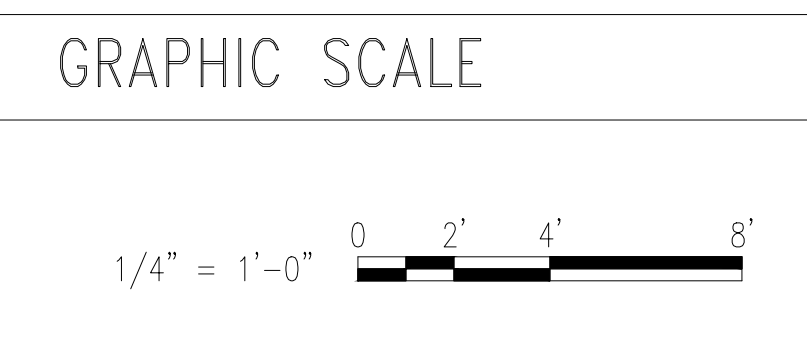




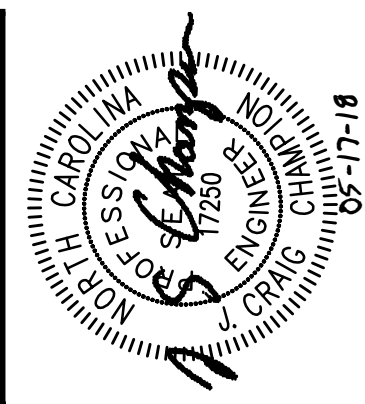
**2 WATER PIPING SCHEMATIC**  
P1.0 NTS



**1 FLOOR PLAN - WATER**  
P1.0 SCALE: 1/4" = 1'-0"







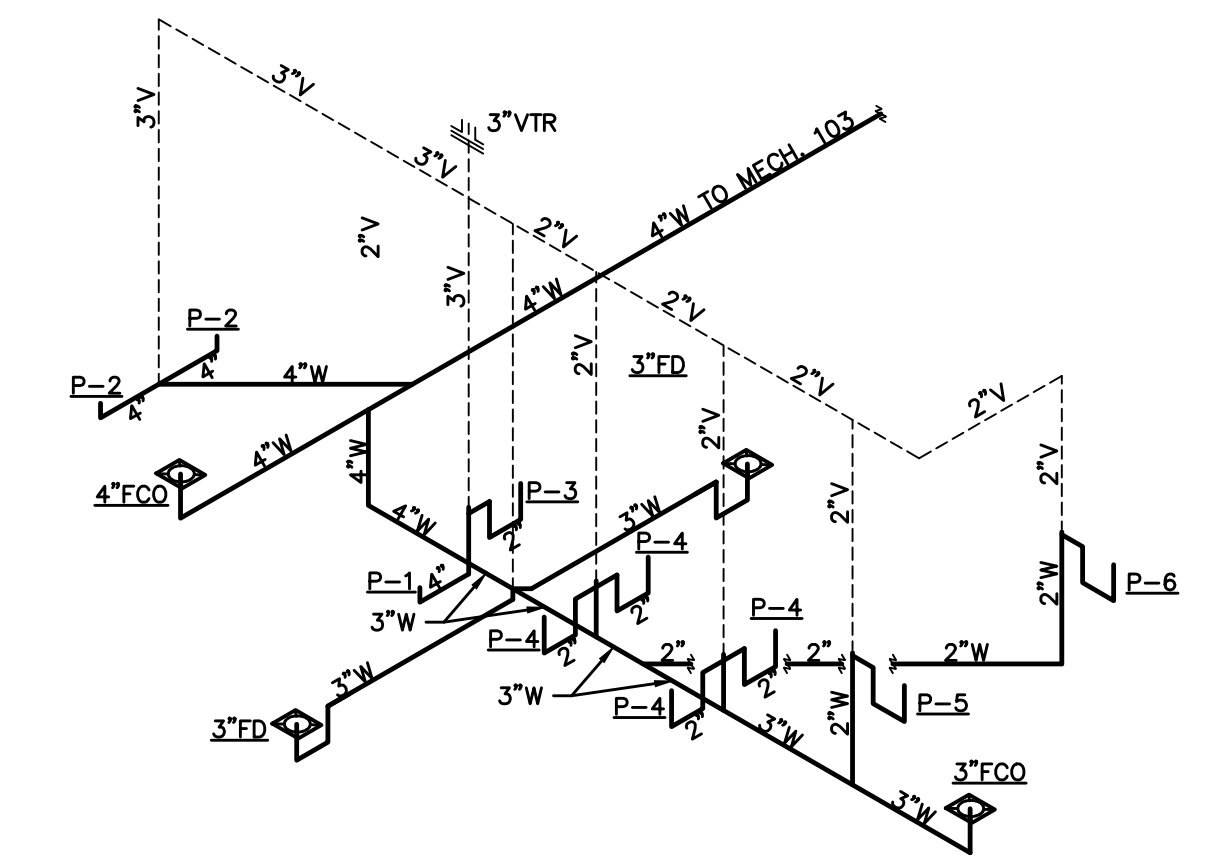
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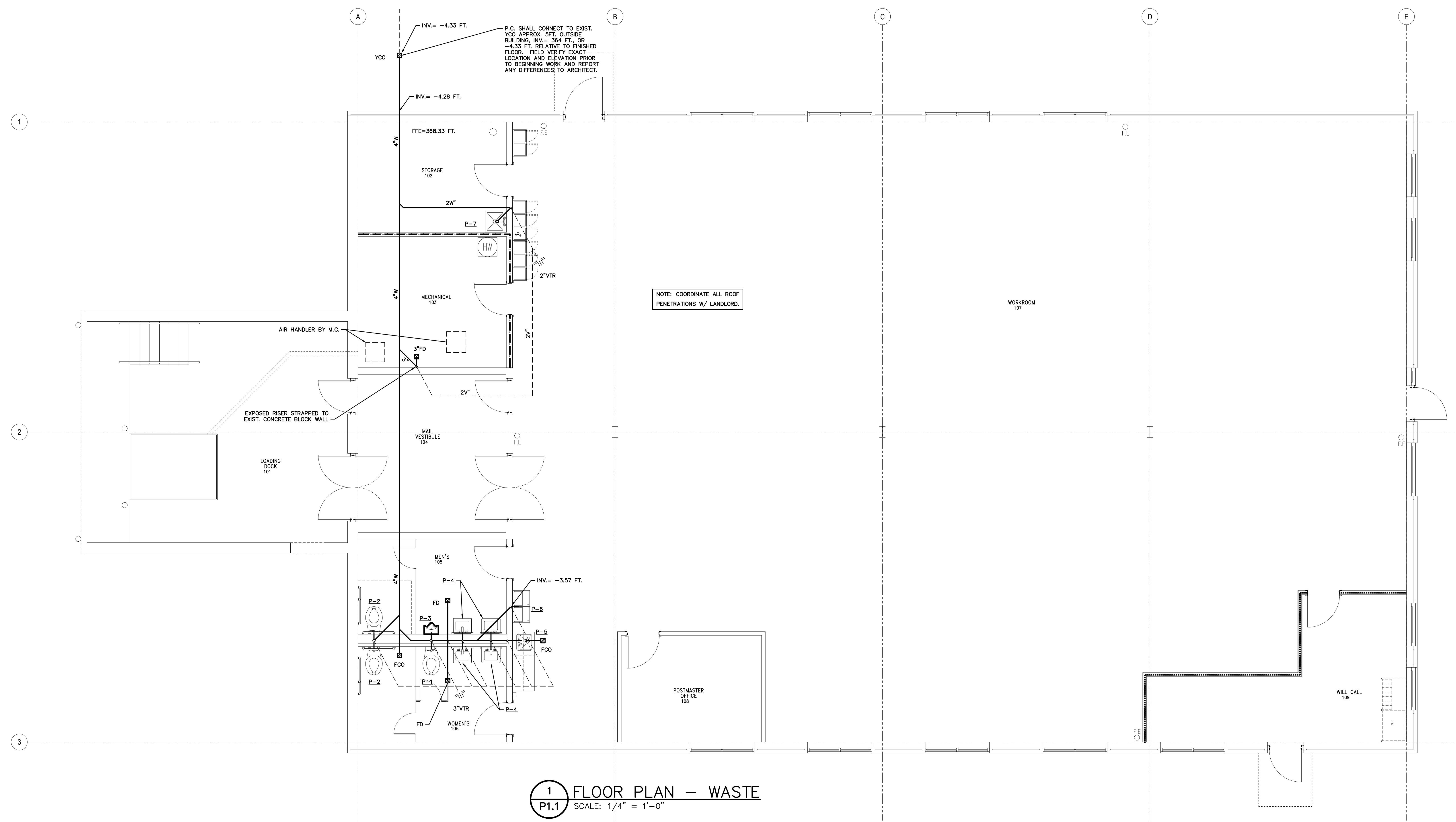
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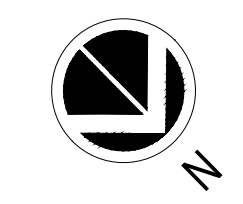
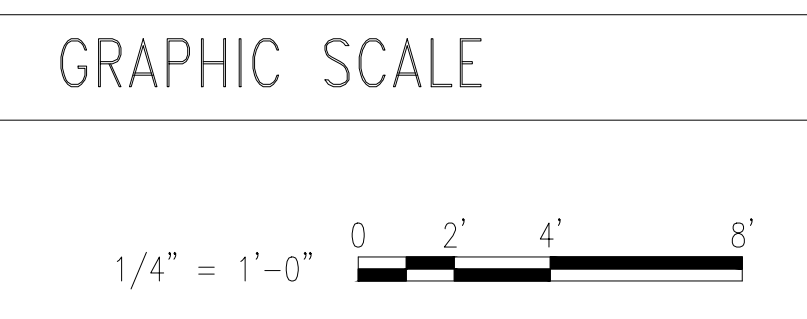
**P1.1** Plumbing Plan + Schematics - Waste  
Scale: As Indicated Date: 5/17/2018  
Project: SPOUT SPRINGS INTERIOR UPFIT  
USPS File Number: XXXXXX  
USPS Project Number: 037932



**2 WASTE PIPING SCHEMATIC**  
P1.1 NTS



**1 FLOOR PLAN - WASTE**  
P1.1 SCALE: 1/4" = 1'-0"



NOTE: COORDINATE ALL ROOF PENETRATIONS W/ LANDLORD.

P.C. SHALL CONNECT TO EXIST. YCO APPROX. 5FT. OUTSIDE BUILDING. INV. = 36.4 FT. OR -4.33 FT. RELATIVE TO FINISHED FLOOR. FIELD VERIFY EXACT LOCATION AND ELEVATION PRIOR TO BEGINNING WORK AND REPORT ANY DIFFERENCES TO ARCHITECT.

AIR HANDLER BY M.C.  
EXPOSED RISER STRAPPED TO EXIST. CONCRETE BLOCK WALL

LOADING DOCK 101

MEN'S 105

WOMEN'S 106

POSTMASTER OFFICE 108

WILL CALL 109

WORKROOM 107

STORAGE 102

MECHANICAL 103

MAIL VESTIBULE 104

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