

BULL STREET TACO BAR

DRAWINGS PREPARED FOR:

JONATHAN MASSEY
BULL STREET TACO
1608 BULL STREET
SAVANNAH, GA 31401
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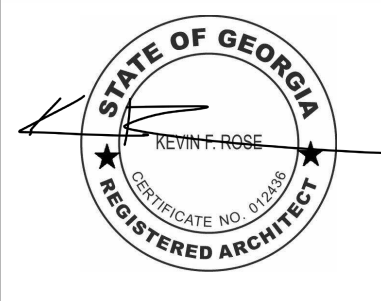
PROJECT TEAM

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EMAIL:



SYMBOLS

Area Tag **Room name**
150 SF

Callout Head SIM

Centerline

Door Tag

Level Head **Name**
Elevation

Room name
101

Room name
101
150 SF

Structural Beam System Tag **Beam Type @ Spacing**

View Reference 1 / A101

Window Tag

Wall Tag

Indicates direction of drawing
Indicates drawing number on sheet
Indicates sheet number where drawn

Interior Elevation Marker Indicates direction of drawing
Indicates drawing number on sheet

Exterior Elevation Marker Indicates sheet number where drawn

BULL STREET TACO EXPANSION
1608 & 1609 BULL STREET, SAVANNAH, GA

BUILDING CODE SUMMARY

1 PROJECT INFORMATION

Name of Project: **Bull Street Taco Bar Expansion**
 Address: **1608 Bull Street Savannah, GA 31401**
 Property PIN #: **20053 30016**
 Proposed Use: **Restaurant Expansion**
 Owner/Authorized Agent: **Jonathan Massey**
 Phone: **912 660 5411** Email: **jon@bullstreettaco.com**

Owned by: City/County Private State
 Code Jurisdiction: City **Savannah** County State

2 PROJECT SUMMARY

Building Description: **Improvements and retrofit of existing street-level retail space on Bull Street in Savannah Georgia. The space will serve as a bar expansion to the adjacent restaurant.**

3 DESIGN CONSULTANTS

CONSULTANT	FIRM	CONTACT / LICENSE #	EMAIL / PHONE
Architectural	Rose Architects	Kevin Rose GA# 012436	kevin@research.co 912 308 4622
Civil	n/a	n/a	n/a
Electrical	Method Engineering	Chris Schaffer GA - PEQ 41545	cschaffer@MethodEG.com 912 963 1611
Fire Alarm	Method Engineering	Chris Schaffer GA - PEQ 41545	cschaffer@MethodEG.com 912 963 1611
Plumbing	Method Engineering	Andrew McKeever GA# 40556	amckeever@MethodEG.com 912 963 1611
Mechanical	Method Engineering	Andrew McKeever GA# 40556	amckeever@MethodEG.com 912 963 1611
Structural	Sapp Structural	Brian Sapp GA - SE000802	bsapp@sappstructural.com 912 963 1611
Landscaping	n/a	n/a	n/a
LEAD DESIGN	n/a	n/a	n/a

4 TYPE OF WORK BEING PERFORMED

New Construction: (A project from the site work through the completion of work required for tenant occupancy) This includes Shell buildings.)
 Addition: (An Existing Building that is adding heated or unheated space. This could be in addition to the footprint or a vertical expansion)
 Upfit: (First Time Interior Completion) (The first time interior completion of a never occupied shell space in a new building.)
 Alteration/Renovation: (Previously Occupied Space)

5 APPLICABLE CODES

Building Code: 2018 International Building Code (IBC) 2020 National Electrical Code
 2018 Life Safety Code (LSC) - NFPA 101 20015 International Energy Conservation Code
 2018 International Mechanical Code 2012 International Fire Code
 2018 International Plumbing Code 2010 ADA Standards for Accessible Design

New Building: New Building Shell Building

6 BASIC BUILDING

Construction Type: I-A II-A III-A IV V-A
 I-B II-B III-B V-B

Sprinklers: No Yes Partial NFPA 13-07 NFPA 13B-07 NFPA 13D-07

Standpipes: No Yes Class: I II III Wet Dry

Gross Building Area:

FLOOR	EXISTING (SQ. FT.)	NEW (SQ. FT.)	SUBTOTAL (SQ. FT.)
LEVEL 01	807	815	1622

7 ALLOWABLE AREA/OCCUPANCY CLASSIFICATION * GROSS SF - 2076 SF

Occupancy: A-1 A-2 A-3 A-4 A-5
 B F-1 Moderate F-2 Low H-1 Health H-5 HPM
 C H-1 Detonate H-2 Deflagrate H-3 Combust H-4 Health H-5 HPM
 D I-1 I-2 I-3 I-4 S
 E L M R-1 R-2 R-3 R-4 High-piled
 F S-1 Moderate S-2 Low Parking Garage Open Enclosed Repair Garage
 G U Util. & Misc. (312)

8 EXIT REQUIREMENTS

NUMBER AND ARRANGEMENT OF EXITS (NFPA 101 7.4 & 7.5)

FLOOR, ROOM OR SPACE DESIGNATION	MINIMUM NUMBER OF EXITS		TRAVEL DISTANCE		ARRANGEMENT MEANS OF EGRESS	
	REQUIRED	SHOWN ON PLANS	ALLOWABLE TRAVEL DISTANCE	ACTUAL TRAVEL DISTANCE SHOWN ON PLANS	REQUIRED DISTANCE BETWEEN EXIT DOORS	ACTUAL DISTANCE BETWEEN EXIT DOORS
ASSEMBLY (A-2)	2	4	200'	26'-10"	N/A	N/A

OCCUPANT LOAD AND EXIT WIDTH (NFPA 101 TABLE 7.3.1.2)

USE GROUP OR SPACE DESCRIPTION	(a)		(b)		(c)		EXIT WIDTH (IN)		
	AREA sq. ft.	AREA per occupant	CALCULATE OCCUPANT LOAD (a/b)	EGRESS WIDTH PER OCCUPANT (b)(7) x c	STAIR LEVEL	STAIR LEVEL	REQUIRED WIDTH (SECTION 1005.1)	STAIR LEVEL	ACTUAL WIDTH SHOWN ON PLANS
BUSINESS	53 SF	100 GROSS	1 PERSON	N/A	0.2"	N/A	2"	N/A	138"
CONCENTRATED SEATING	56 SF	7 NET	8 PEOPLE	N/A	0.2"	N/A	1.6"	N/A	138"
KITCHEN	600 SF	200 GROSS	3 PEOPLE	N/A	0.2"	N/A	6"	N/A	138"
SEATING (less concentrated) + BANQUETTE SEATING	605 SF	15 SF NET	41 PEOPLE	N/A	0.2"	N/A	9.2"	N/A	138"
TOTAL REQ'D WIDTH			58 PEOPLE				11.6" / 4 EXITS		
EXTERIOR DINING	517 SF	15 SF NET	35 PEOPLE				2.9" REQ'D @ EACH EXIT		
			93 PEOPLE						

1. See Table 7.3.1.2 to determine whether net or gross area is applicable.
 2. See definition "Area, Gross" and "Area Net"
 3. Minimum stairway width (Section 7.2.2.2); min. door width (Section 7.2.1.2)
 4. Assembly occupancies (Chapter 12)

9 PLUMBING FIXTURE REQUIREMENTS NO CHANGE

If using fixtures one floor above or one floor below, show calculations to justify the count (TABLE 2902.1)

OCCUPANCY USE GROUP AND/OR SPACE DESIGNATION	WATERCLOSETS		URINALS	LAVATORIES		SHOWERS / TUBS	DRINKING FOUNTAINS
	MALE	FEMALE		MALE	FEMALE		
ASSEMBLY A-2	1 PER 75	1 PER 75	0	1 PER 200	N/A	N/A	N/A

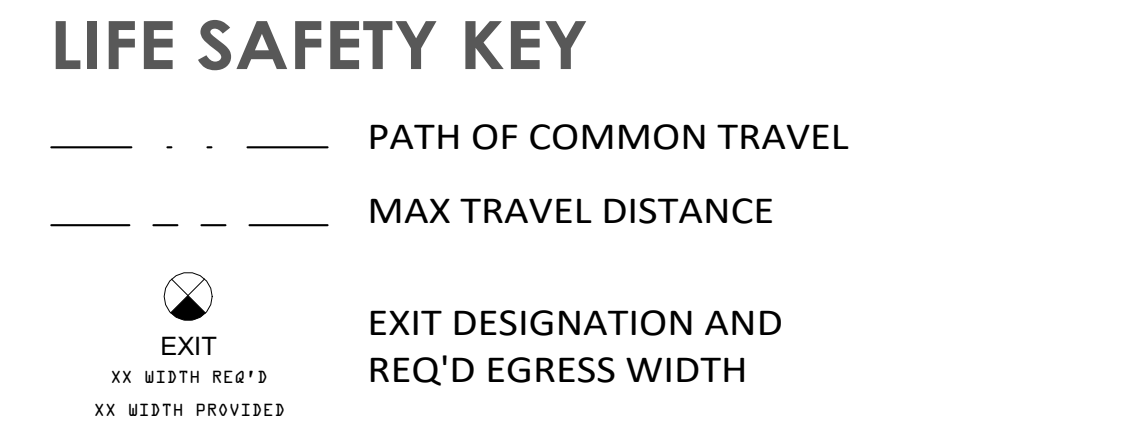
*1 SERVICE SINK SHALL BE PROVIDED

10 PARKING REQUIREMENTS

Lot or Parking Area	Total # of Parking Spaces		# of Accessible Spaces Provided*	
	Required	Provided	Regular w/ 5' Access	Access Aisle 8' Access Aisle
			Total # Accessible Provided: 2195 SF < 3000 SF	

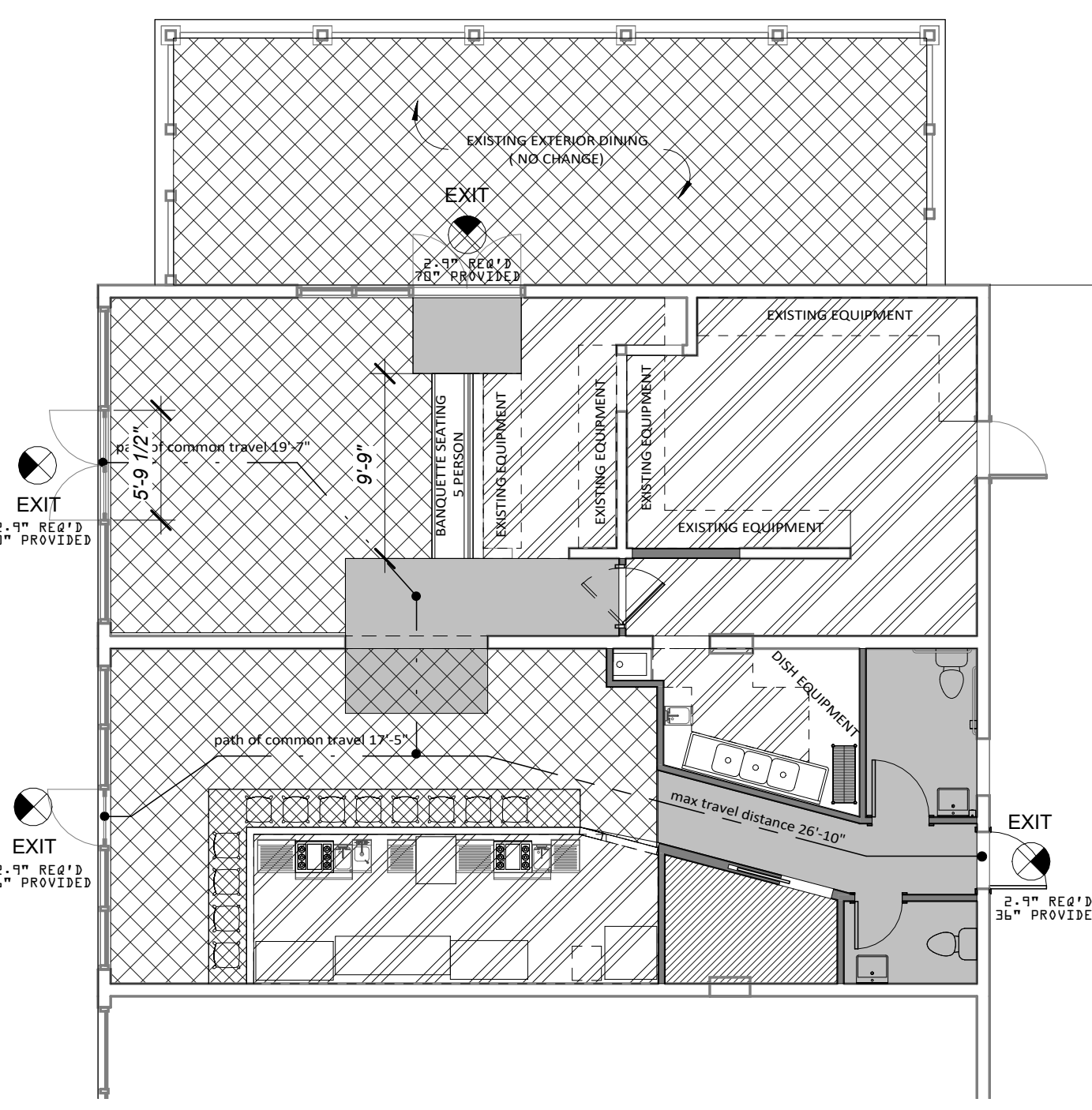
NO MINIMUM OFF-STREET PARKING SPACE REQUIREMENT

- LIFE SAFETY NOTES**
- SEE ELECTRICAL PLANS FOR EMERGENCY LIGHTING LOCATIONS.
 - PROVIDE DOOR CLOSER AND EGRESS PANIC HARDWARE FOR ALL EGRESS DOORS AS SPECIFIED.
 - CONTRACTOR SHALL COORDINATE ALL EXIT LIGHTS AND EMERGENCY LIGHTING WITH E3.1



LIFE SAFETY LEGEND

OFFICE	- 51SF / 100gross = .51	1 PERSON
CIRCULATION/RESTROOMS	- 259 - n/a	
KITCHEN / WORK AREA	600sf / 200gross OLF = 3	3 PEOPLE
UNCONCENTRATED SEATING	- 605 SF / 15net OLF = 40.3	41 PEOPLE + 5 BOOTH
CONCENTRATED SEATING	- 56 / 7net OLF = 8	8 PEOPLE
TOTAL OCCUPANT LOAD		58 PEOPLE
EXTERIOR DINING		+35 PEOPLE
		93 PEOPLE



PROJECT DESCRIPTION

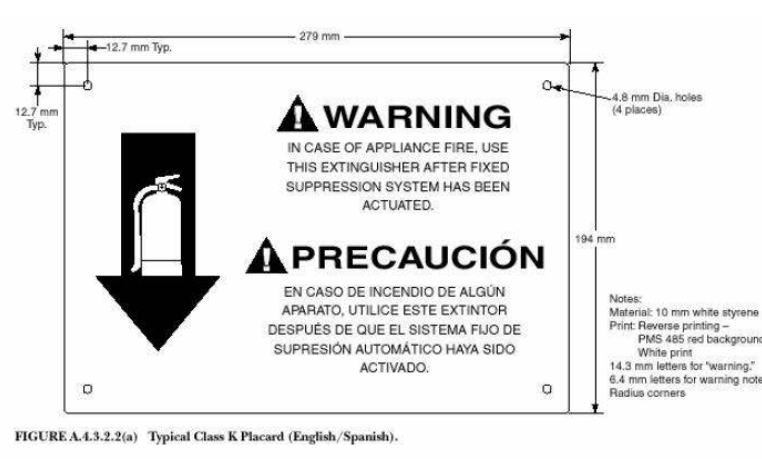
BUILDING IMPROVEMENTS:
 THIS PROJECT CONSIST OF AN EXPANSION OF AN EXISTING COMMERCIAL SPACE. THE SPACE WILL BE USED AS A BAR COMPONENT TO A PREVIOUSLY EXISTING RESTAURANT. RENOVATIONS INCLUDE THE ADDITION OF A BATHROOM DISH AREA, OFFICE AND MODERATE RECONFIGURATION OF EXISTING SPACE.

VICINITY MAP: NTS



EXTINGUISHERS

- PORTABLE FIRE EXTINGUISHER REQUIREMENTS**
- ALL PORTABLE FIRE EXTINGUISHERS SHALL COMPLY WITH THE LOCAL FIRE DEPARTMENT AND THE NFPA 10 STANDARD FOR PORTABLE FIRE EXTINGUISHERS.
 - FIRE EXTINGUISHER SIZE AND PLACEMENT SHALL COMPLY WITH TABLE 5.2.1. OF NFPA 10 UNDER ORDINARY HAZARD.
 - PROVIDE CLASS A MULTIPURPOSE DRY-CHEMICAL TYPE IN STEEL CONTAINER: UL-RATED 4-A-60-B-C, 10-LB NOMINAL CAPACITY, WITH MONOAMMONIUM PHOSPHATE-BASED DRY CHEMICAL IN ENAMELED-STEEL CONTAINER.
 - FIRE EXTINGUISHERS SHALL BE CONSPICUOUSLY LOCATED WHERE THEY WILL BE READILY ACCESSIBLE AND IMMEDIATELY AVAILABLE
 - ALL FIRE EXTINGUISHERS SHALL BE TESTED AND OPERATIONAL PRIOR TO PROJECT COMPLETION.



GENERAL NOTES

- ALL WORK UNDER THIS CONTRACT SHALL CONFORM TO ALL CODES, ORDINANCES, AND REGULATIONS OF ALL AUTHORITIES HAVING JURISDICTION OVER THIS WORK WHETHER SHOWN IN THESE DOCUMENTS OR NOT.
- THE CONTRACTOR SHALL SECURE AND PAY FOR ALL NECESSARY PERMITS AND INSPECTIONS.
- THE CONTRACTOR SHALL SECURE AND PAY FOR ALL INSURANCE CALLED FOR BY LAW AND AS DIRECTED BY THE OWNER OR FUNDING INSTITUTION. COPIES OF INSURANCE CERTIFICATES SHALL BE FILED WITH THE ARCHITECT.
- THE "GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION" A.I.A. DOCUMENT A201, CURRENT ADDITION IS HEREBY MADE A PART OF THIS CONTRACT AND SHALL BE AS BINDING AS IF CONTAINED HEREIN IN FULL. A COPY OF THIS DOCUMENT IS AVAILABLE FOR INSPECTION AT THE ARCHITECTS' OFFICE.
- THE CONTRACTOR SHALL COORDINATE HIS/HER WORK WITH THE WORK OF THE OWNER'S ADDITIONAL CONTRACTORS AS NECESSARY FOR THE UNINTERRUPTED FLOW OF WORK.
- THE MANUFACTURED ITEMS, EQUIPMENT, AND ASSEMBLIES SHALL BE INSTALLED IN STRICT COMPLIANCE WITH THE MANUFACTURER'S PRINTED INSTRUCTIONS FOR INSTALLATION UNLESS OTHERWISE SPECIFICALLY INDICATED IN THESE CONSTRUCTION DOCUMENTS.
- ALL THE DRAWINGS WITHIN THIS SET OF DRAWINGS ARE COMPLEMENTARY. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL THE SUBCONTRACTORS WITH A COMPLETE SET OF DOCUMENTS. DO NOT ISSUE INCOMPLETE SETS OF DRAWINGS.

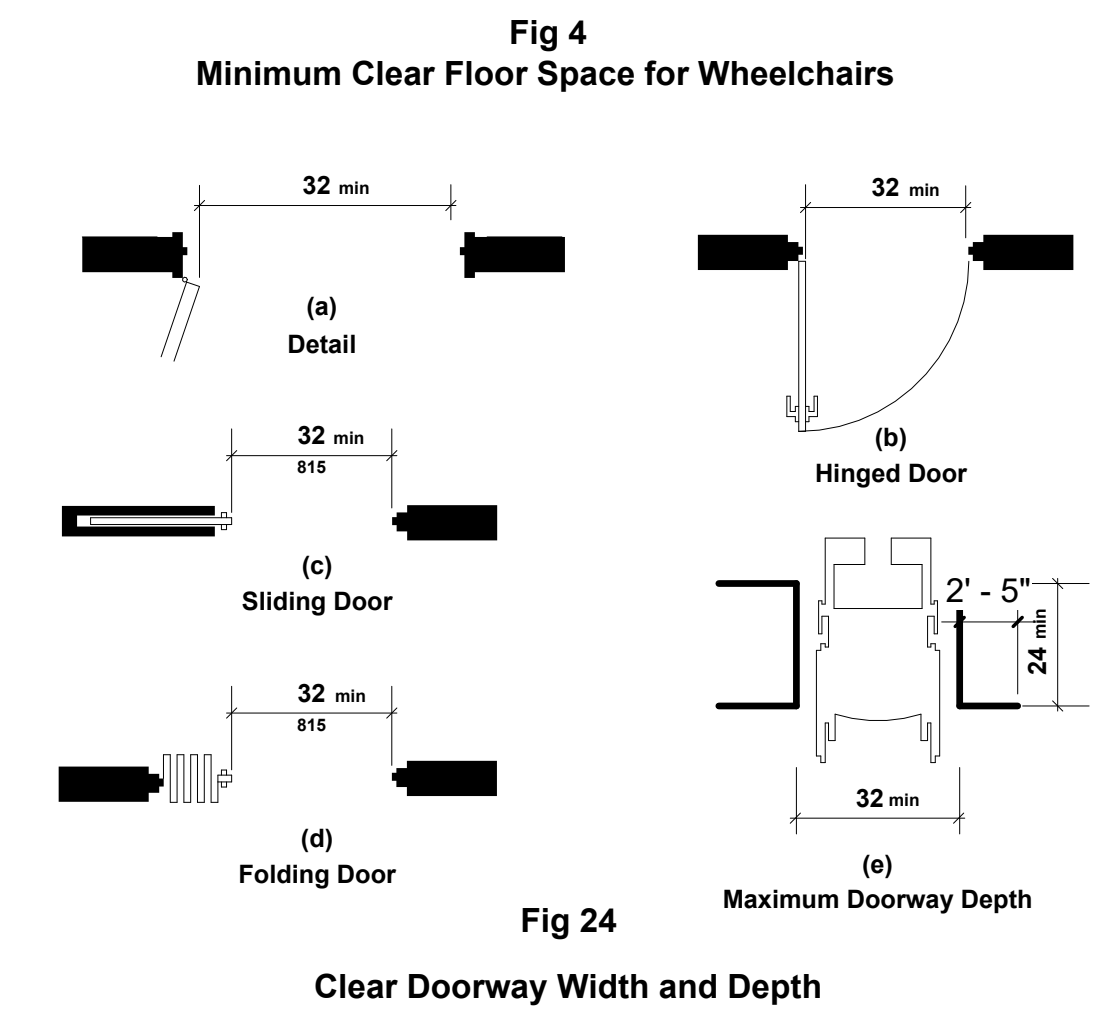
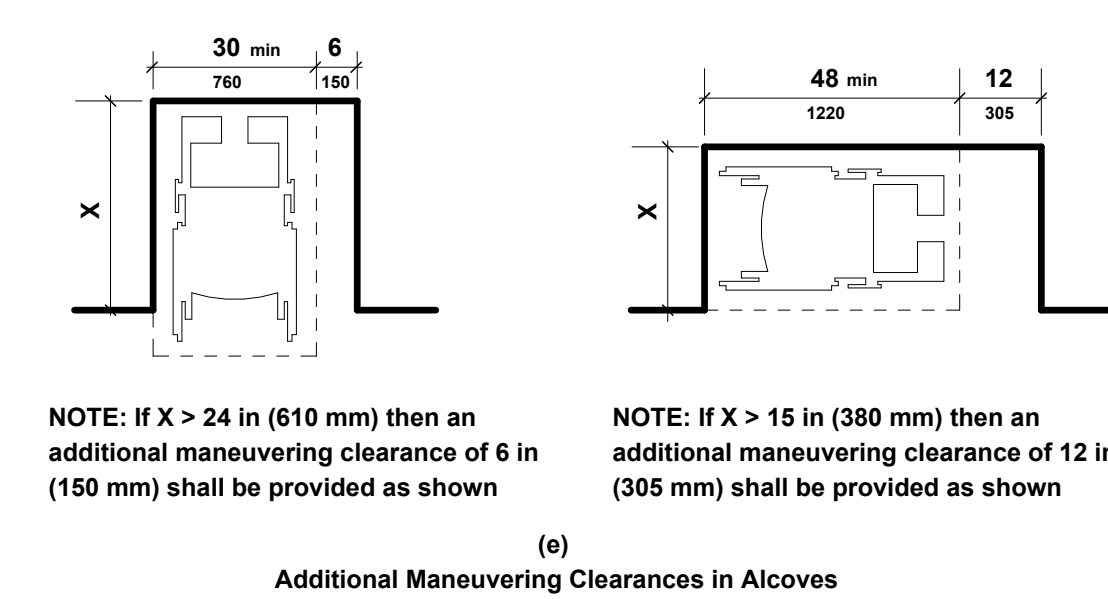
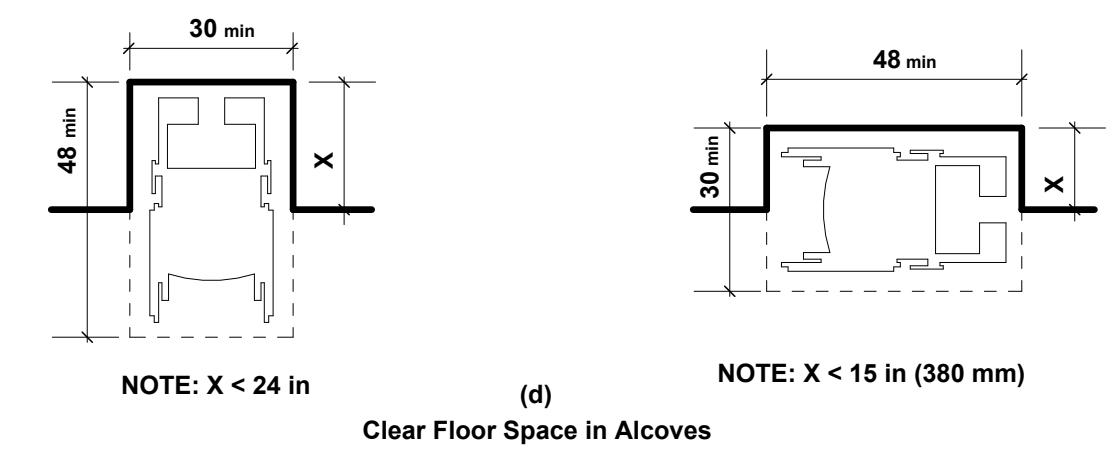
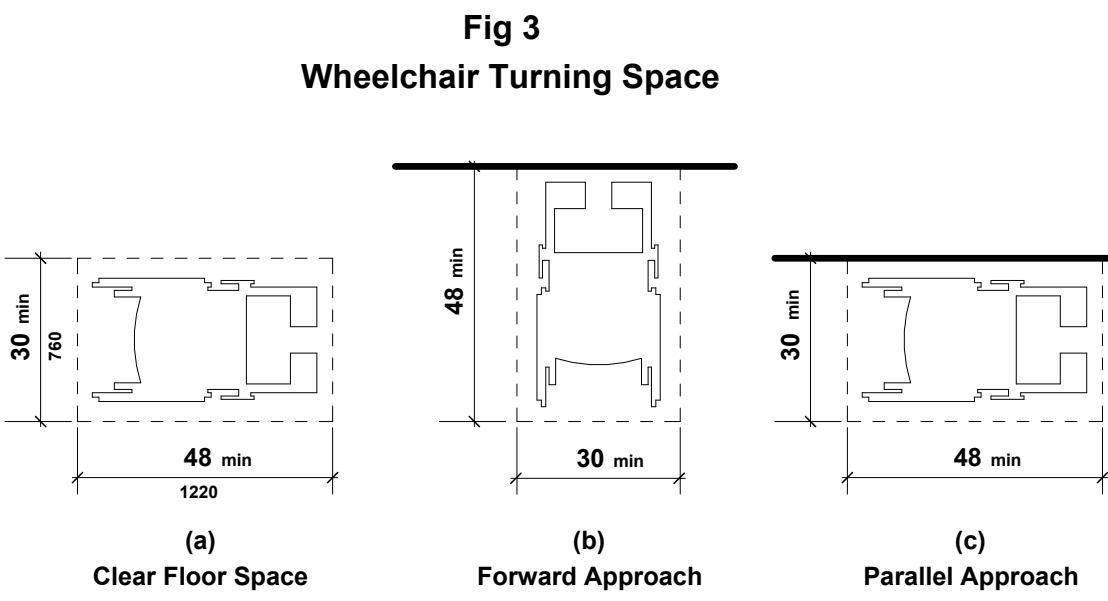
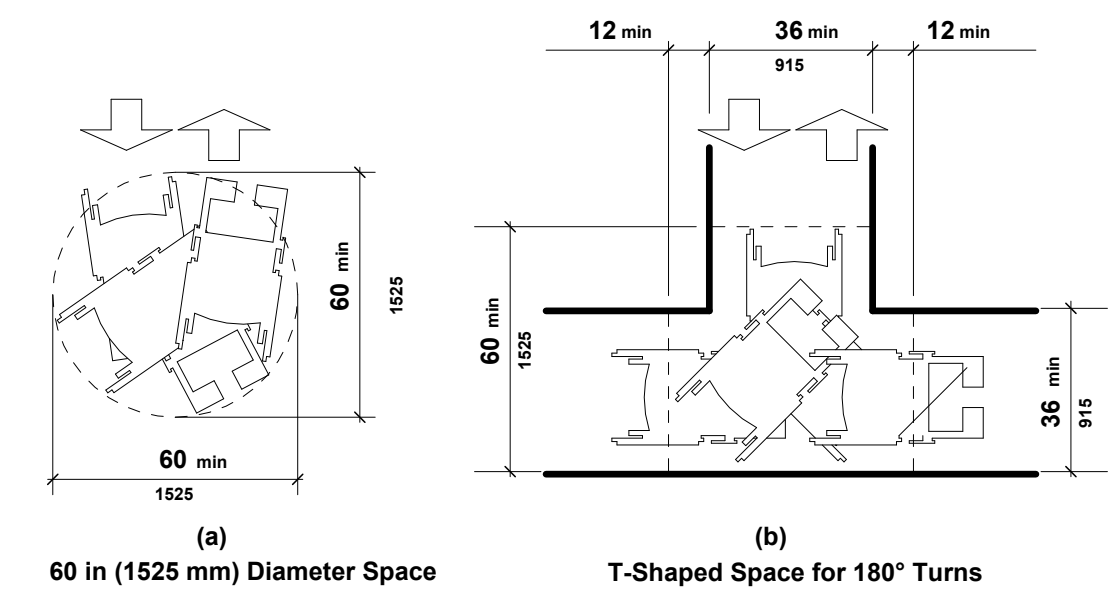


BULL STREET TACO EXPANSION
 1608 & 1609 BULL STREET, SAVANNAH, GA

PROJECT INFORMATION
 2102
 JK
 12 15 22

G1.0

ADA CLEARANCES:



ADA VERTICAL CIRCULATION:

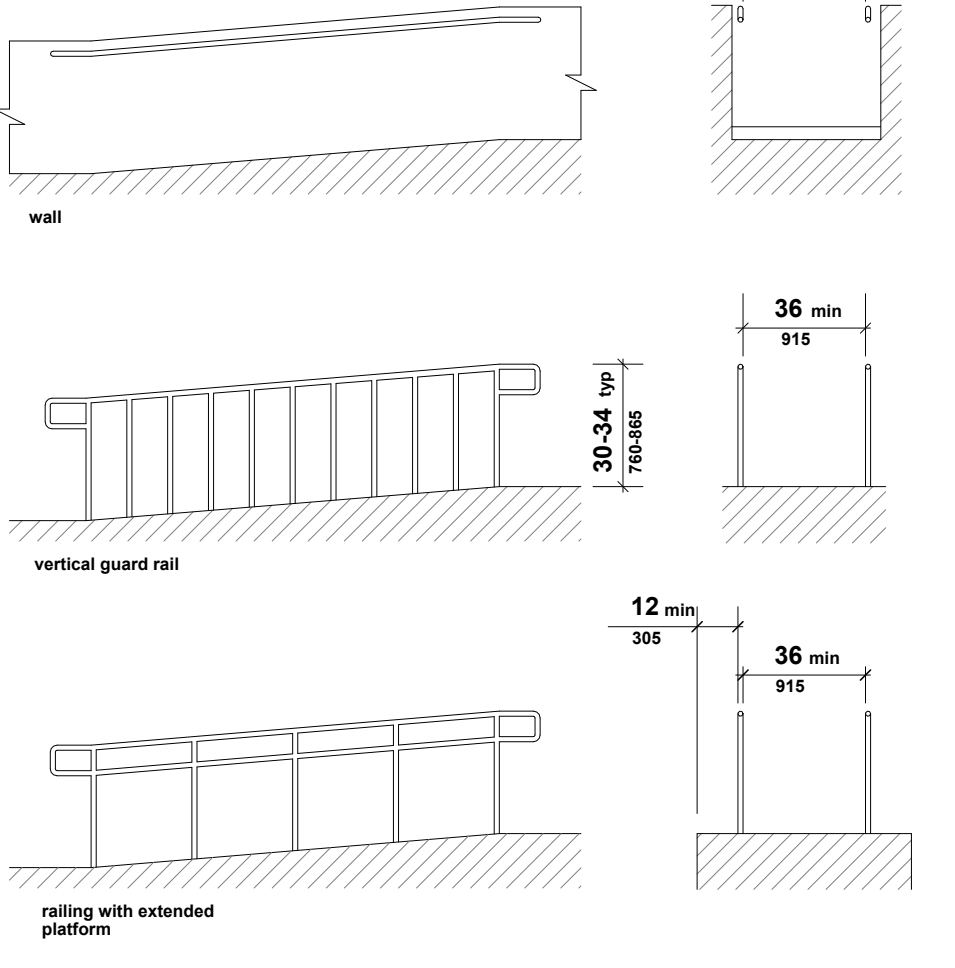
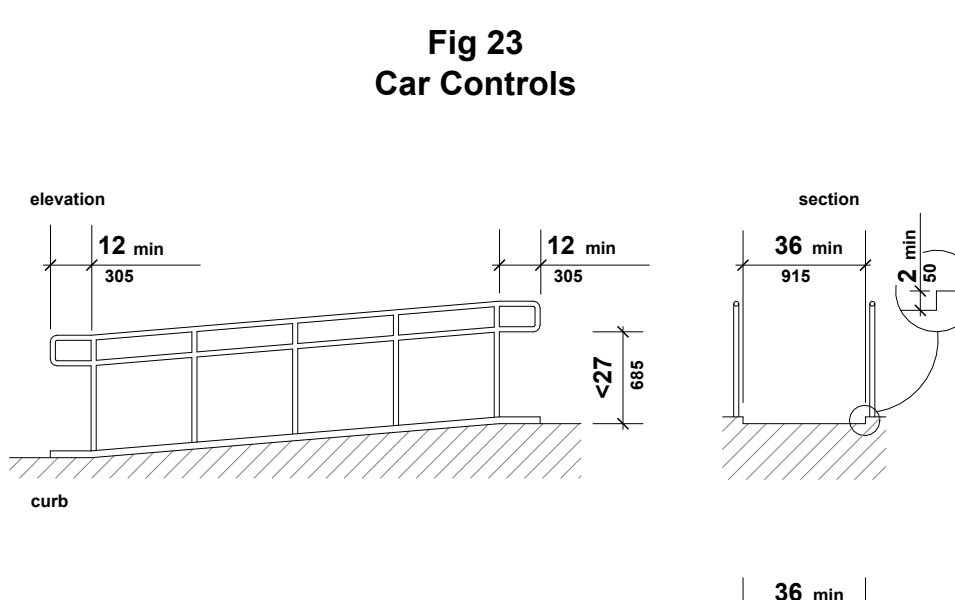
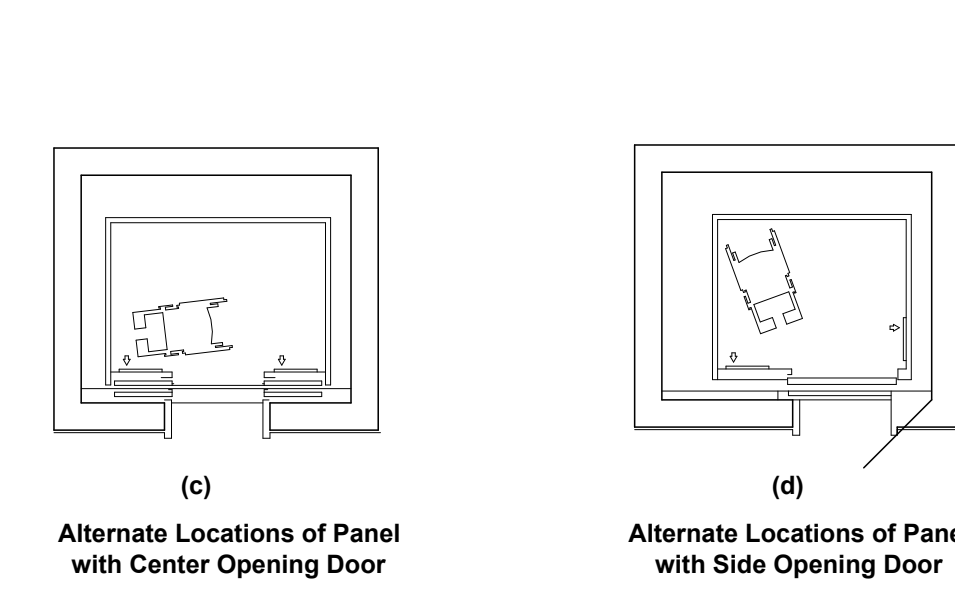
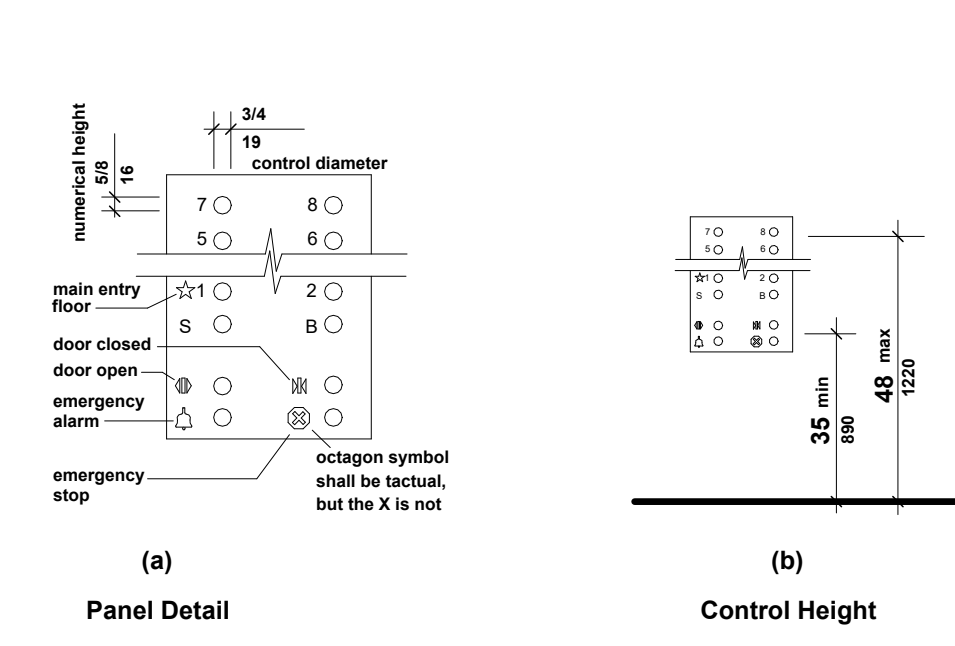
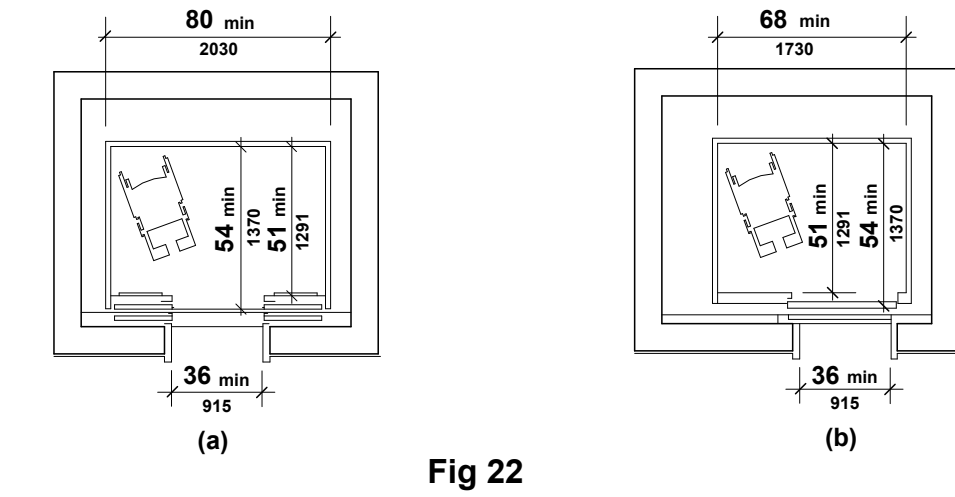
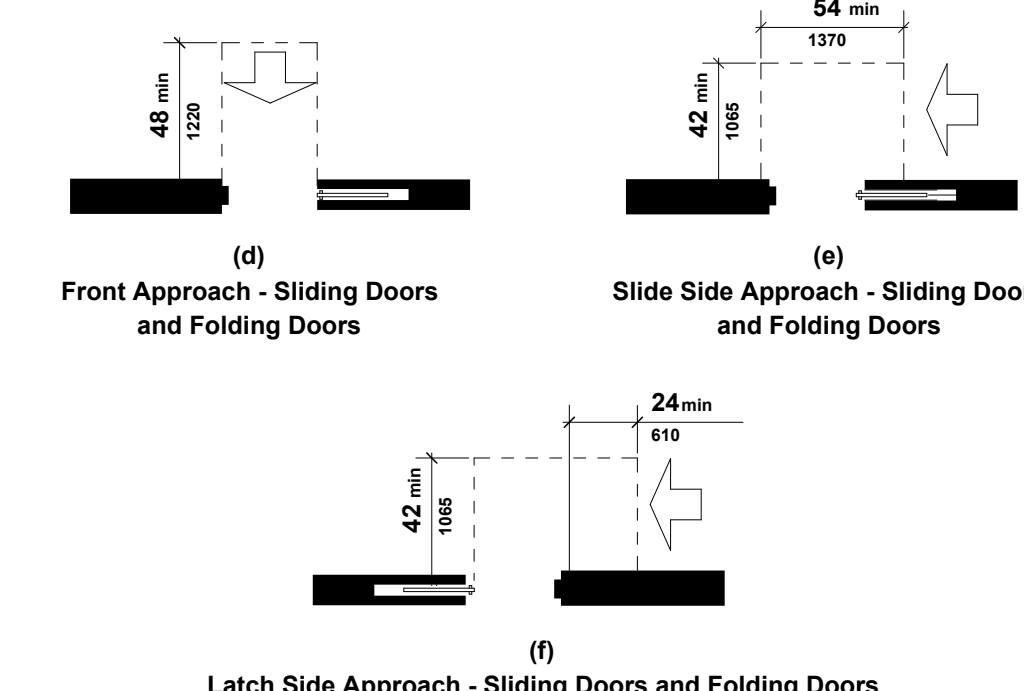
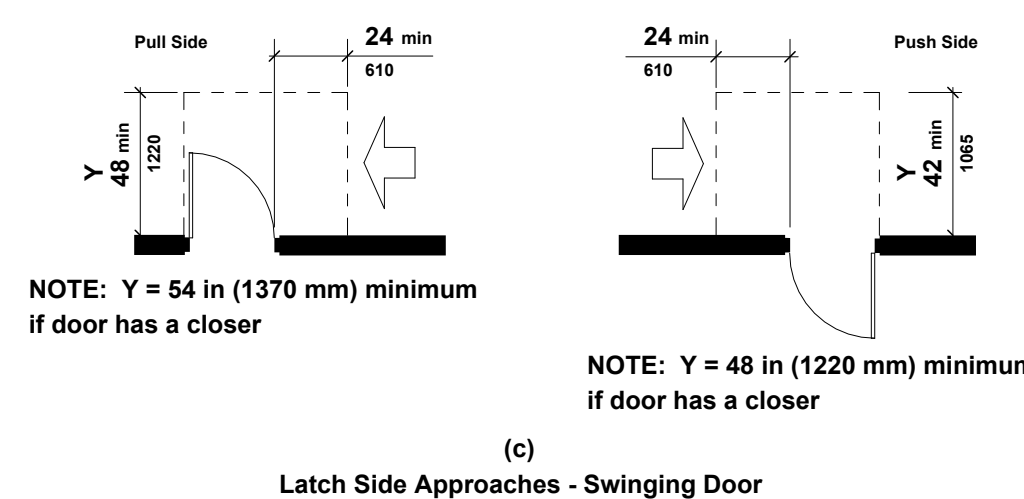
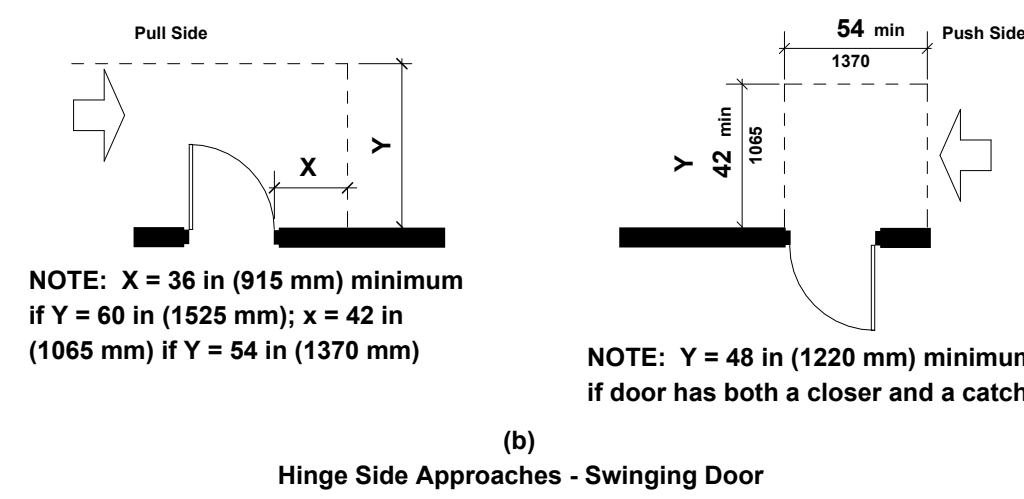
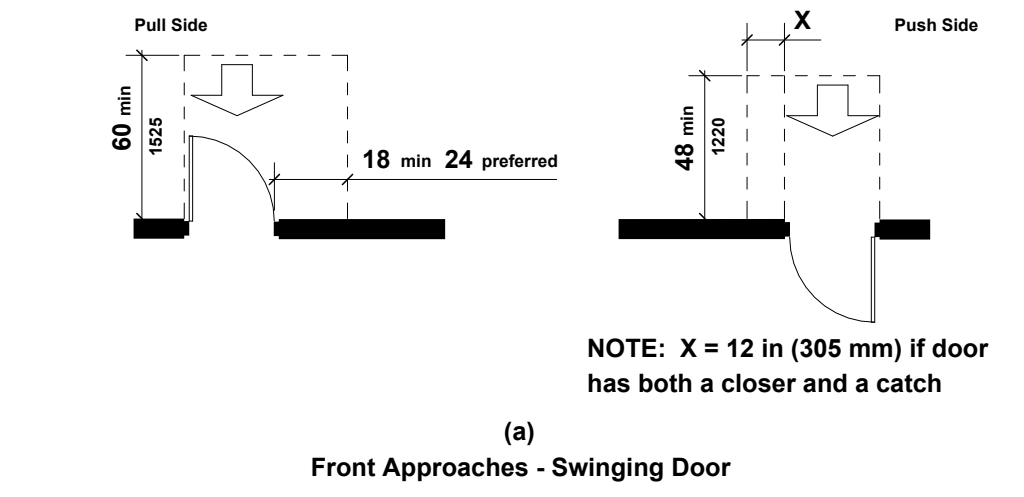


Fig 17
Examples of Edge Protection and Handrail Extensions

ADA RESTROOM REQUIREMENTS:

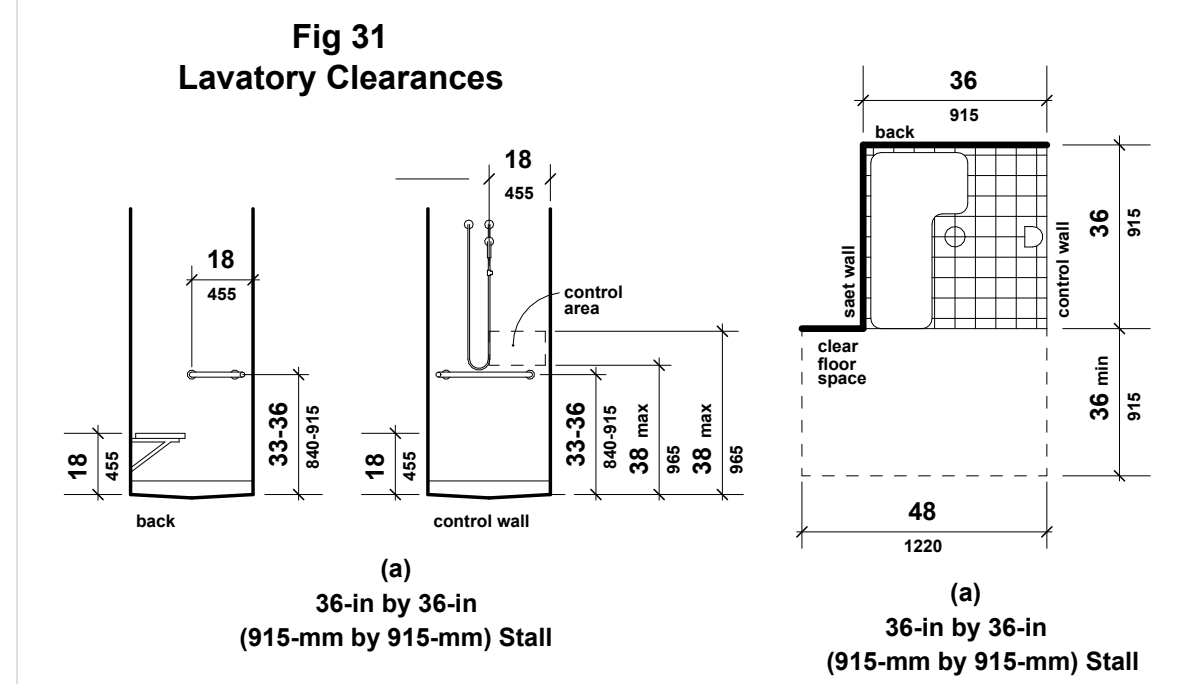
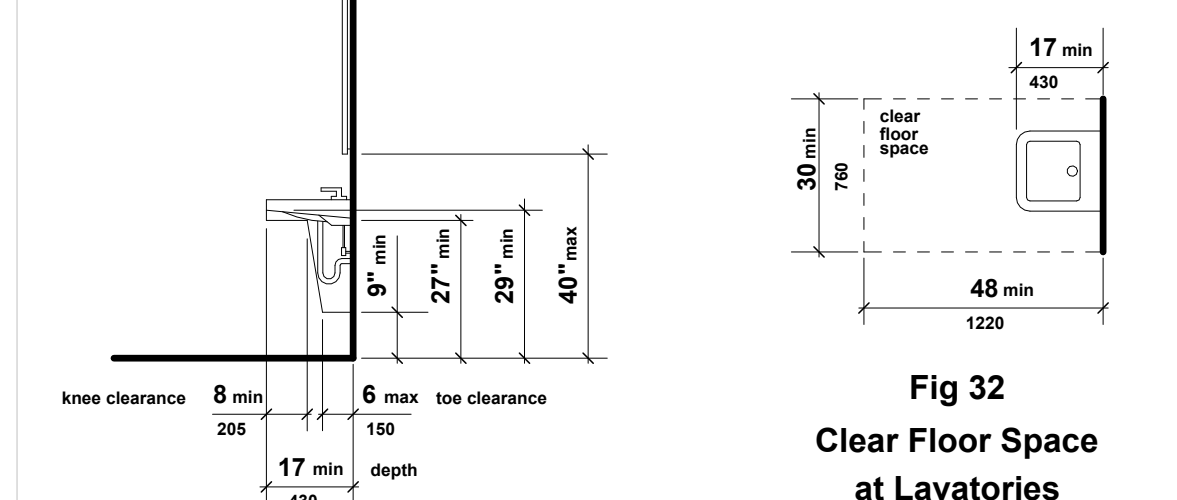
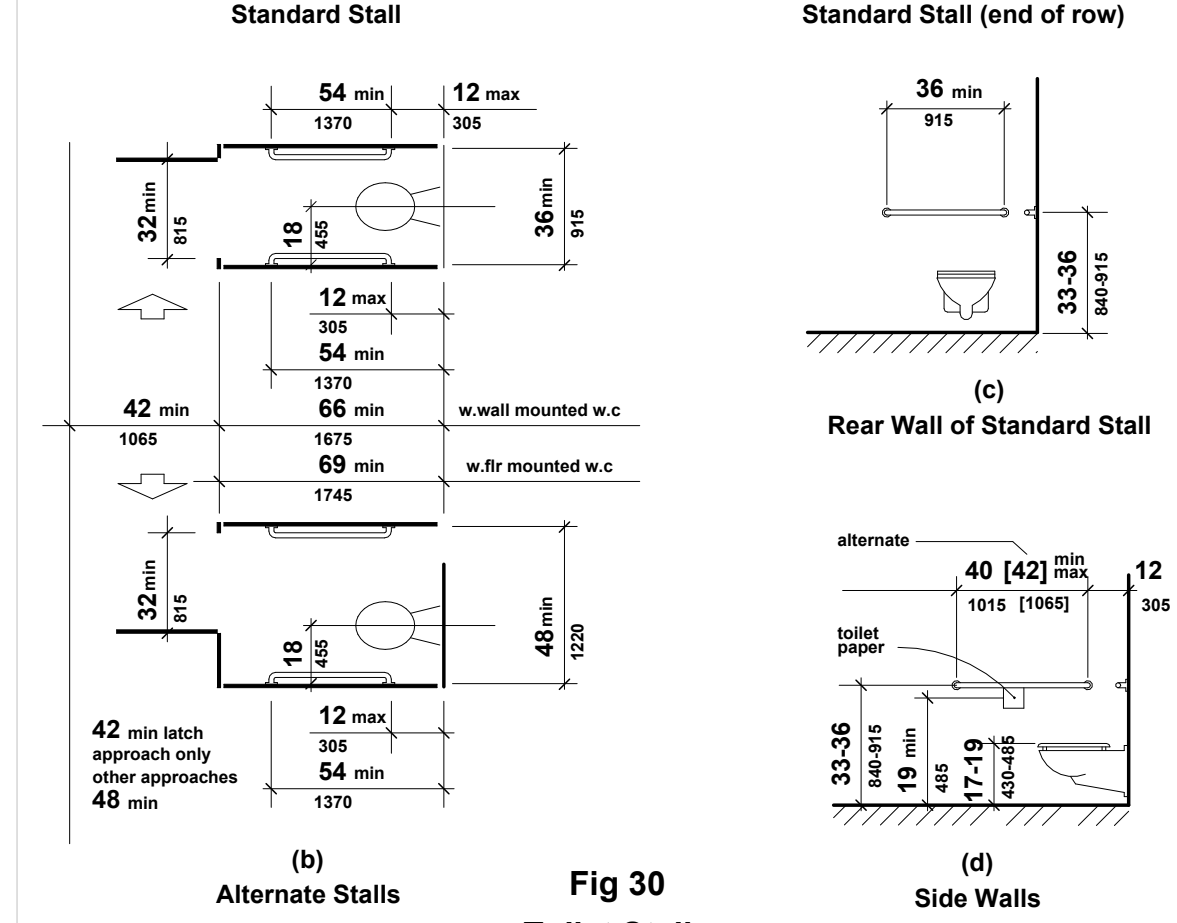
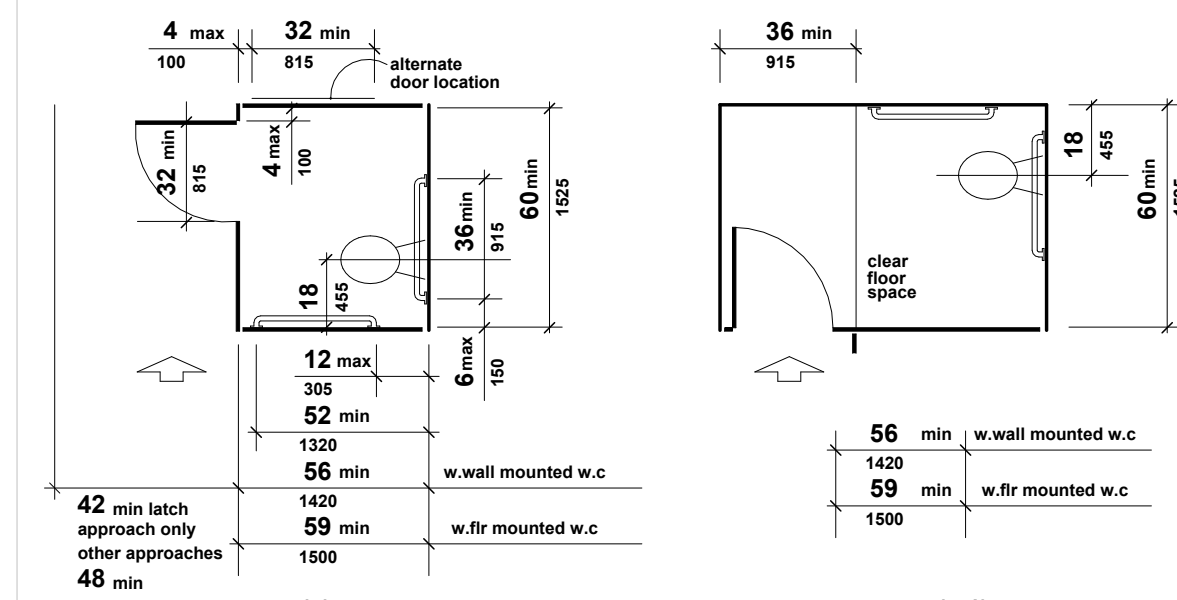
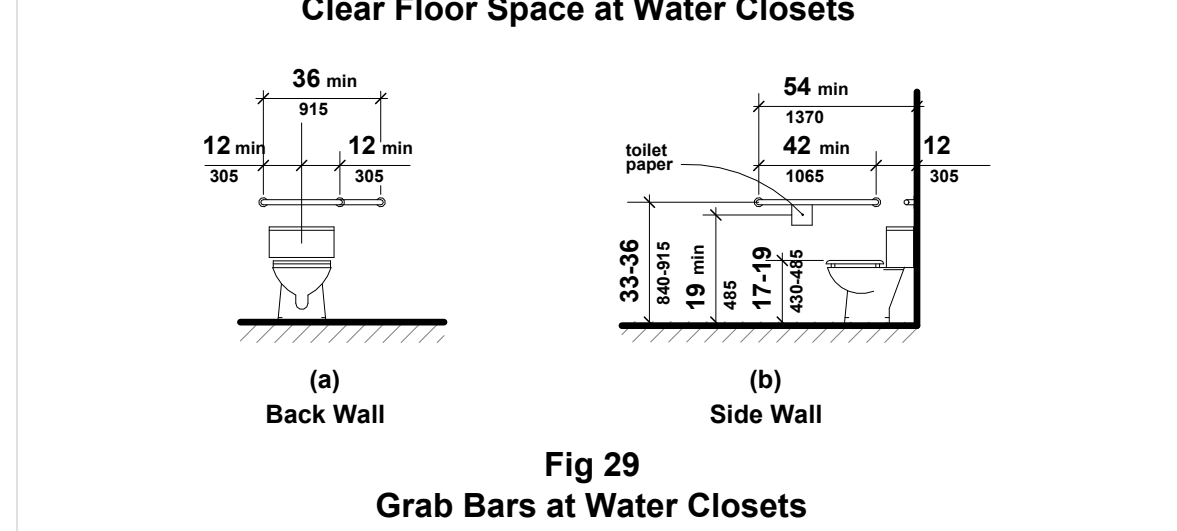
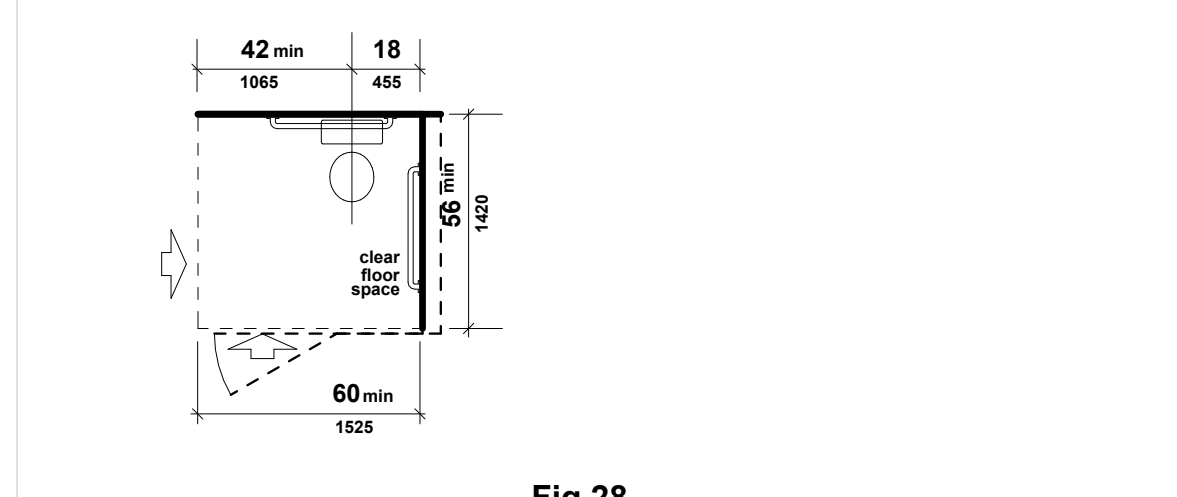


Fig 35
Shower Size and Clearances

GENERAL ADA NOTES:

- GENERAL ADA NOTES:**
- ALL PROPOSED WORK TO COMPLY WITH APPLICABLE REQUIREMENTS OF ADA FOR HANDICAPPED ACCESSIBILITY.
 - CONTROLS AND OPERATING MECHANISMS SHALL BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING OR TWISTING OF THE WRIST, AS PER RS 4-6, 4.25.4.
 - ACCESSIBLE ROUTES TO BE PROVIDED BETWEEN FACILITIES ON THE GROUND FLOOR, PROVIDING A MINIMUM OF 36 INCHES OF WIDTH ALONG THE ACCESSIBLE ROUTE AS PER RS 4-6, 4.3.1 AND A MINIMUM OF 32 INCHES OF WIDTH AT DOORWAYS, AS PER 4-6, 4.13.5.

4.2 SPACE ALLOWANCES AND REACH RANGES

- A CLEAR FLOOR SPACE OF 30"x48" SHALL BE PROVIDED FOR FORWARD AND PARALLEL APPROACHES SEE FIG. 4.
- 60" DIAMETER SPACE SHALL BE PROVIDED FOR WHEELCHAIR TURNING SEE FIG. 3.

4.8 RAMPS

- THE MAXIMUM SLOPE OF A RAMP IN NEW CONSTRUCTION SHALL BE 1:12 THE MAXIMUM RISE OF ANY SLOPE SHALL BE 30"
- THE CLEAR WIDTH (BETWEEN HANDRAILS) SHALL BE 36"
- LANDINGS LOCATED AT THE BOTTOM AND TOP OF EACH RUN SHALL BE AT LEAST AS WIDE AS THE WIDEST PART OF THE RAMP AND THE LENGTH SHALL BE 60" CLEAR.
- DIRECTION CHANGES AT LANDINGS SHALL HAVE A MINIMUM SIZE OF 60"x60".
- IF A DOORWAY IS LOCATED AT A LANDING, THEN THE AREA IN FRONT OF THE DOORWAY SHALL COMPLY WITH 4.13.6.

4.8.5 HANDRAILS

- PROVIDE HANDRAILS ON BOTH SIDES OF RAMP SEGMENTS.
- THE CLEAR SPACE BETWEEN HANDRAIL AND THE WALL SHALL BE 1-1/2".
- THE GRIPPING SURFACE SHALL BE 1-1/4" OR 1-1/2" DIAMETER.
- THE TOP OF THE GRIPPING SURFACE SHALL BE MOUNTED BETWEEN 30" AND 34" ABOVE THE RAMP SURFACE.

4.13 DOORS

- DOORWAYS SHALL HAVE A MINIMUM CLEAR OPENING OF 32" WITH THE DOOR OPEN 90 DEGREES MEASURED BETWEEN THE FACE OF THE DOOR AND THE STOP. FOR CLEARWAY WIDTH AND DEPTH SEE FIG. 24.
- FOR MANEUVERING CLEARANCES AT DOORS SEE FIG. 25.

4.15 DRINKING FOUNTAINS

- THE SPOUT HEIGHT SHALL BE NO HIGHER THAN 36" ABOVE THE FLOOR.

4.16 WATER CLOSETS

- THE HEIGHT OF WATER CLOSETS SHALL BE 17" TO 19" ABOVE THE FLOOR TO THE TOP OF THE TOILET SEAT. FOR HEIGHTS AND CONFIGURATIONS OF GRAB BARS SEE FIG. 29 AND FOR STALLS SEE FIG. 30.

4.19 LAVATORIES AND SINKS

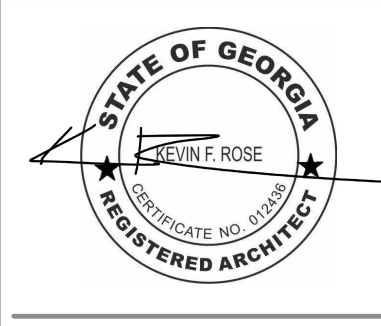
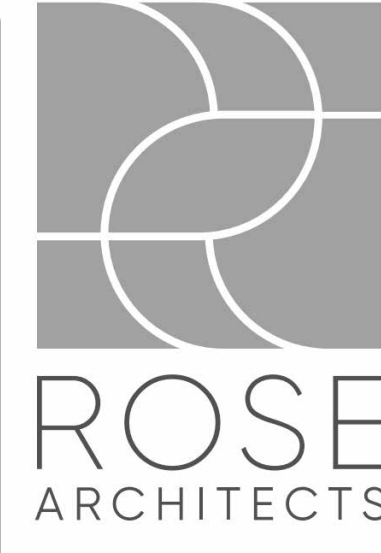
- LAVATORIES SHALL BE MOUNTED WITH A CLEARANCE OF 29" FROM THE FLOOR TO THE BOTTOM OF THE APRON. KNEE AND TOE CLEARANCES TO COMPLY WITH FIG. 31.
- SINKS SHALL BE MOUNTED WITH THE COUNTER OR RIM NO HIGHER THAN 34" FROM THE FLOOR.
- A CLEAR FLOOR SPACE OF 30"x48" SHALL BE PROVIDED IN FRONT OF A LAVATORY OR SINK TO ALLOW A FORWARD APPROACH AND TO COMPLY WITH FIG. 32.
- HOT WATER AND DRAIN PIPES UNDER LAVATORIES OR SINKS SHALL BE INSULATED.

4.21 SHOWER STALLS

- SHOWER STALL SIZE AND CLEAR FLOOR SPACE IN FRONT SHALL COMPLY WITH FIG. 35.
- A SHOWER SEAT SHALL BE PROVIDED IN A STALL 36"x36".
- GRAB BARS SHALL BE PROVIDED AND COMPLY WITH FIG. 37.

FOR CONSTRUCTION

EXTERIOR NOTE: ALL IMPROVEMENTS TO BUILDING TO TAKE PLACE IN THE INTERIOR OF SHELL. NO CHANGE TO EXTERIOR FACADE OF BUILDING SHALL TAKE PLACE. SEPARATE AWNING/SIGNAGE SHALL BE SUBMITTED AT AT LATER DATE



BULL STREET TACO EXPANSION

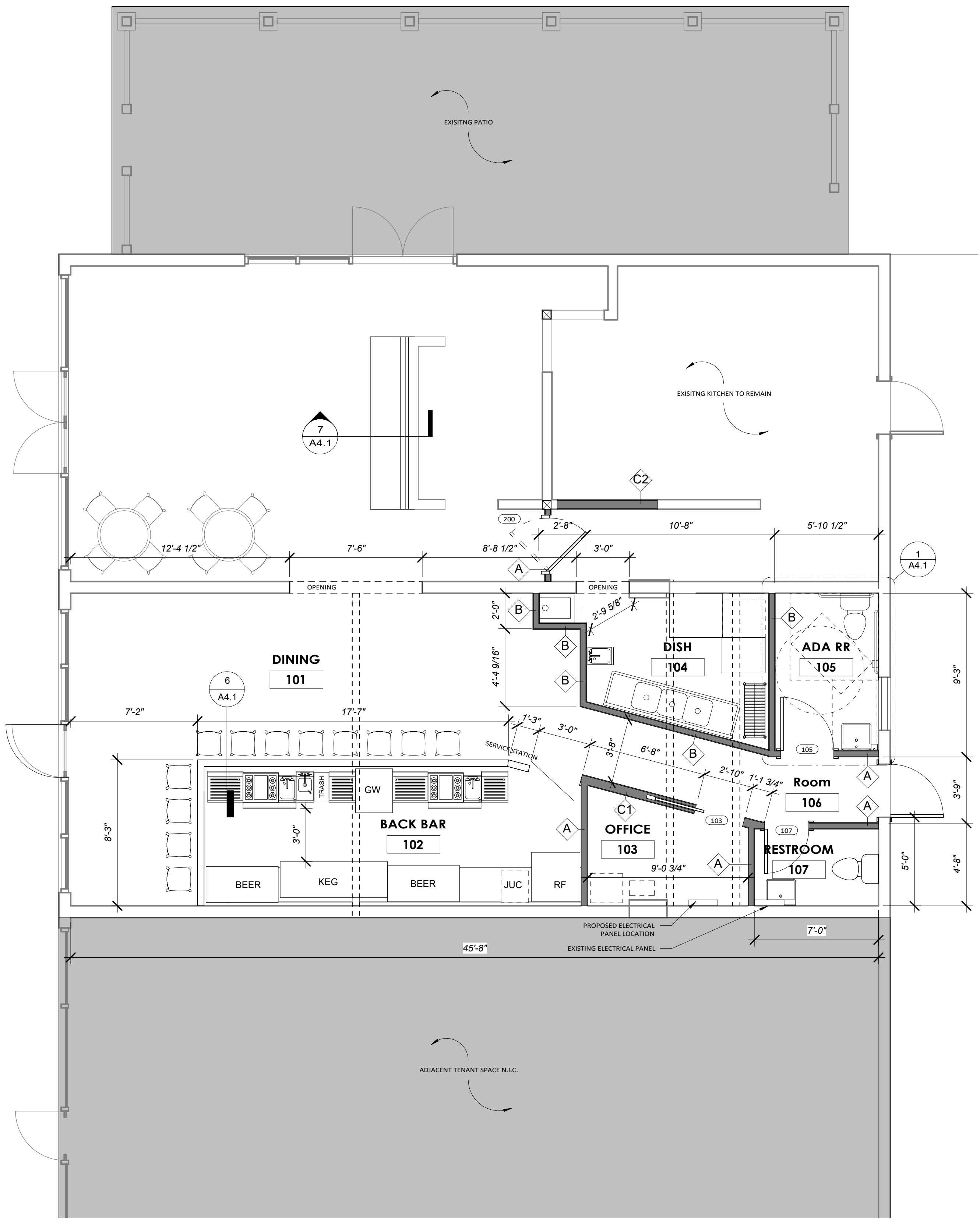
1608 & 1609 BULL STREET, SAVANNAH, GA

1 SITE PLAN
A0.0 1/8" = 1'-0"

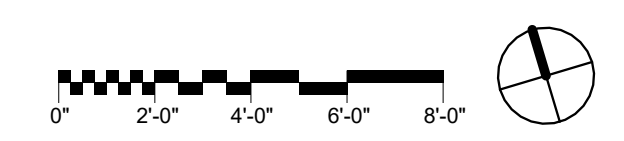


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JK
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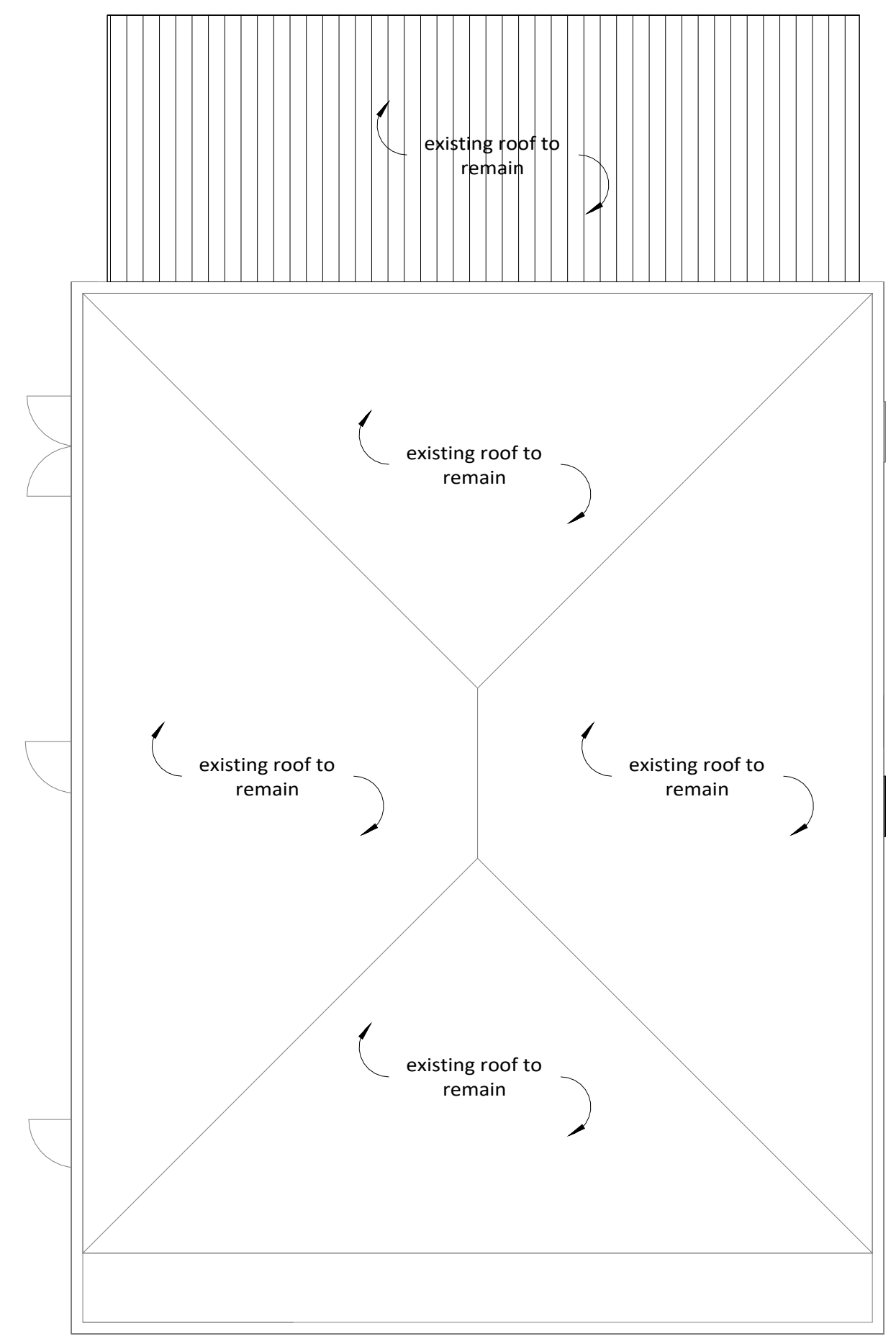


1 1ST FLOOR
A1.0 1/4" = 1'-0"



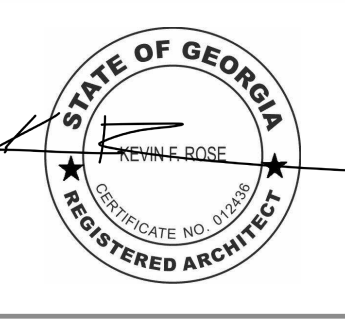
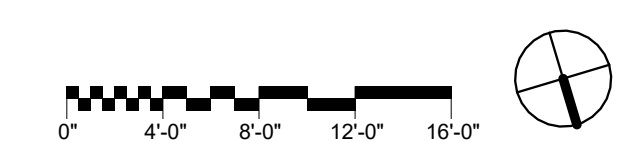
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7. ALL THE DRAWINGS WITHIN THIS SET OF DRAWINGS ARE COMPLEMENTARY. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL THE SUBCONTRACTORS WITH A COMPLETE SET OF DOCUMENTS. DO NOT ISSUE INCOMPLETE SETS OF DRAWINGS.



ROOF NOTE: NO CHANGE TO EXISTING ROOF

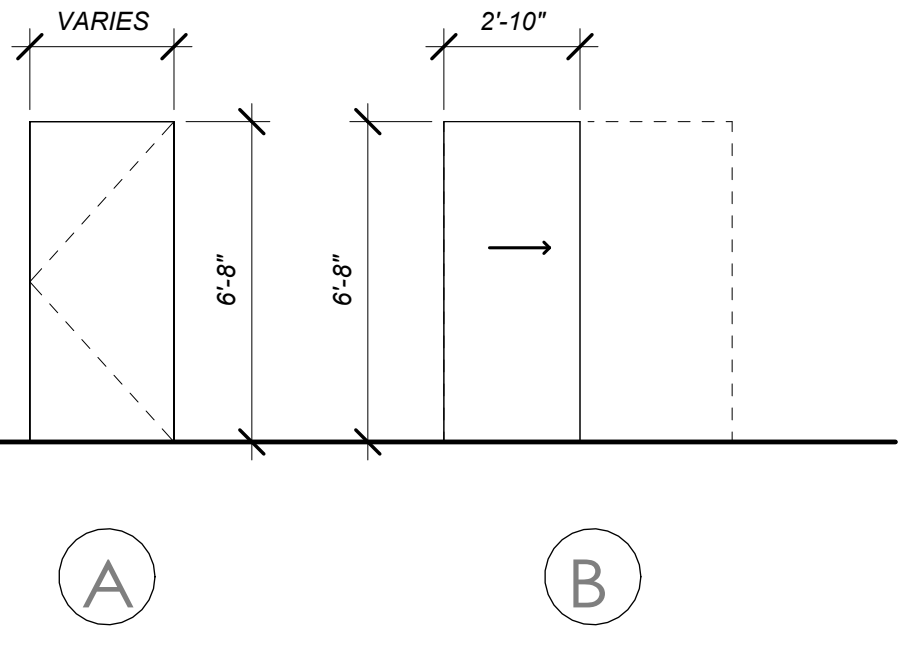
3 ROOF PLAN
A1.0 1/8" = 1'-0"



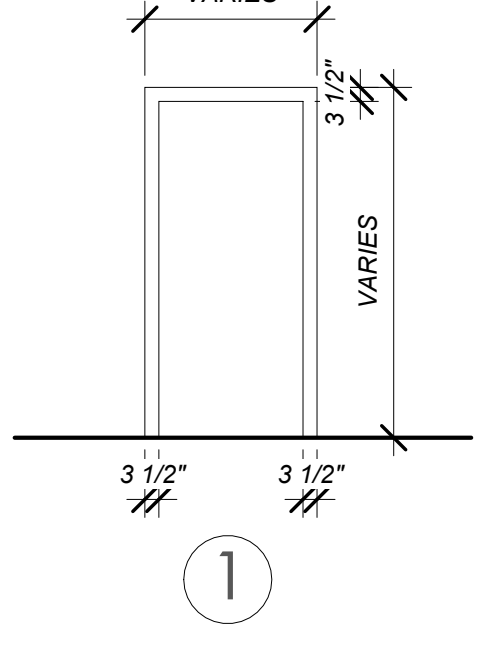
FOR CONSTRUCTION DOOR SCHEDULE

#	Door		Door Type	Finish	Frame		Comments
	Width	Height			Material	Type	
103	2' - 10"	6' - 8"			6' - 8"		
105	3' - 0"	6' - 8"			6' - 8"		
107	2' - 6"	6' - 8"			6' - 8"		
200	3' - 0"	7' - 0"			7' - 0"		

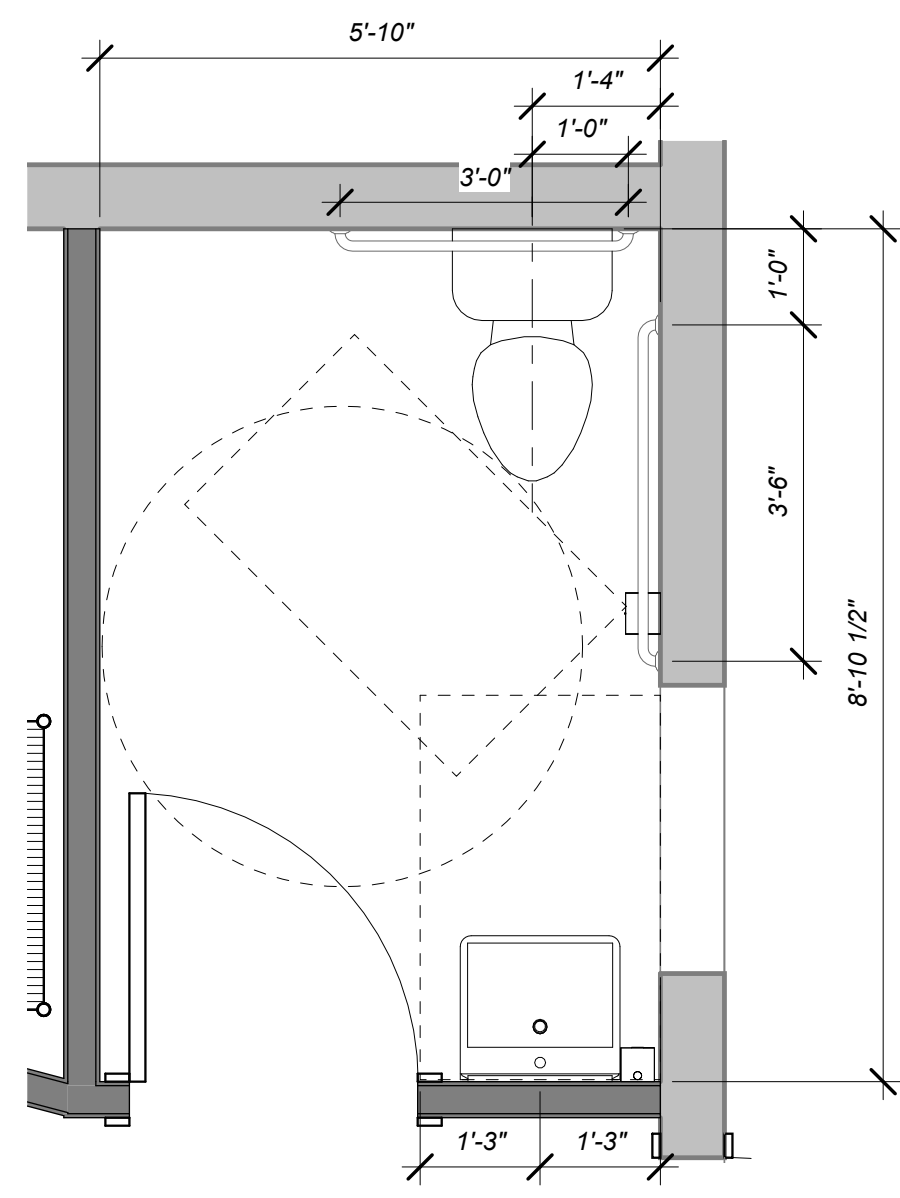
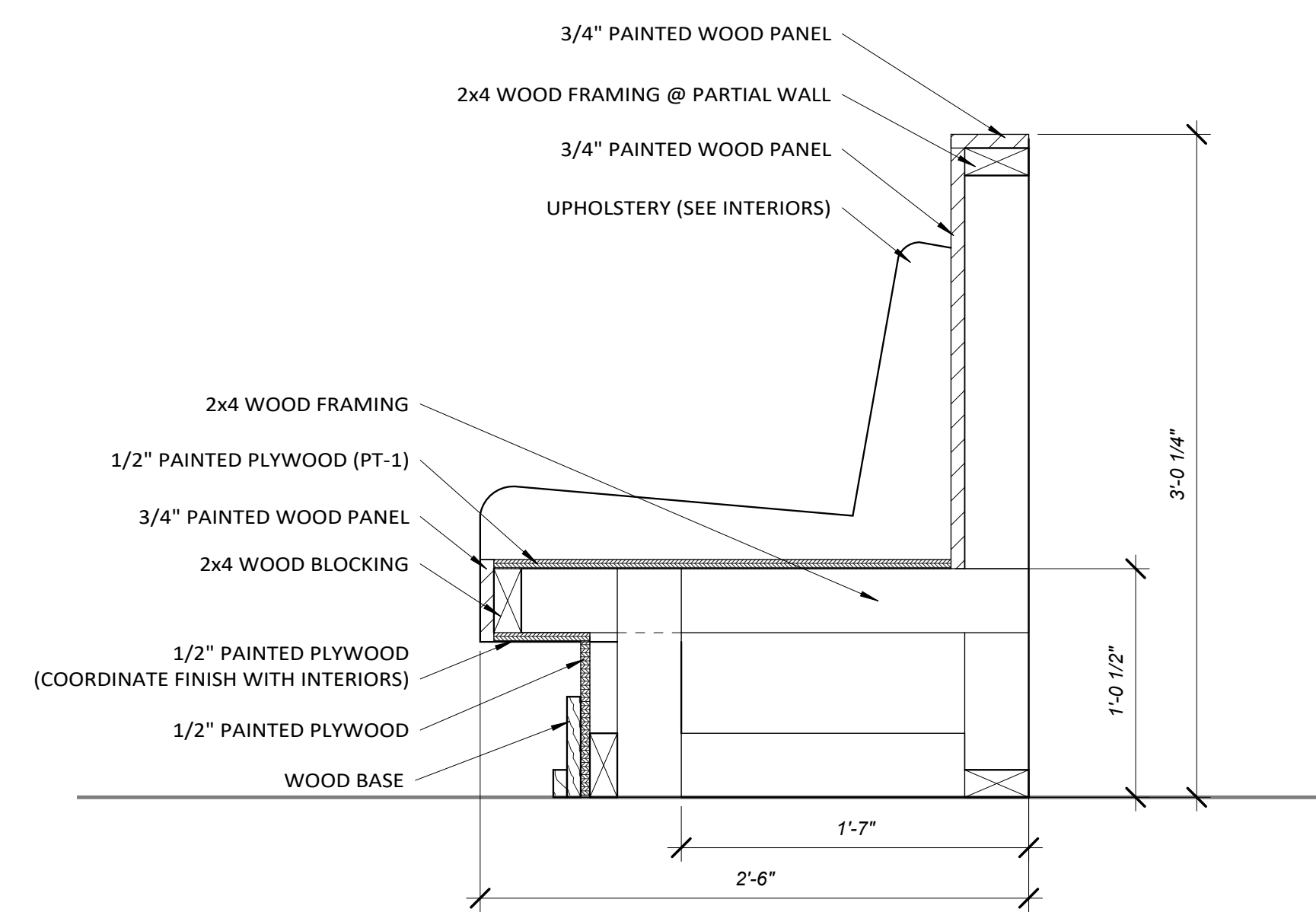
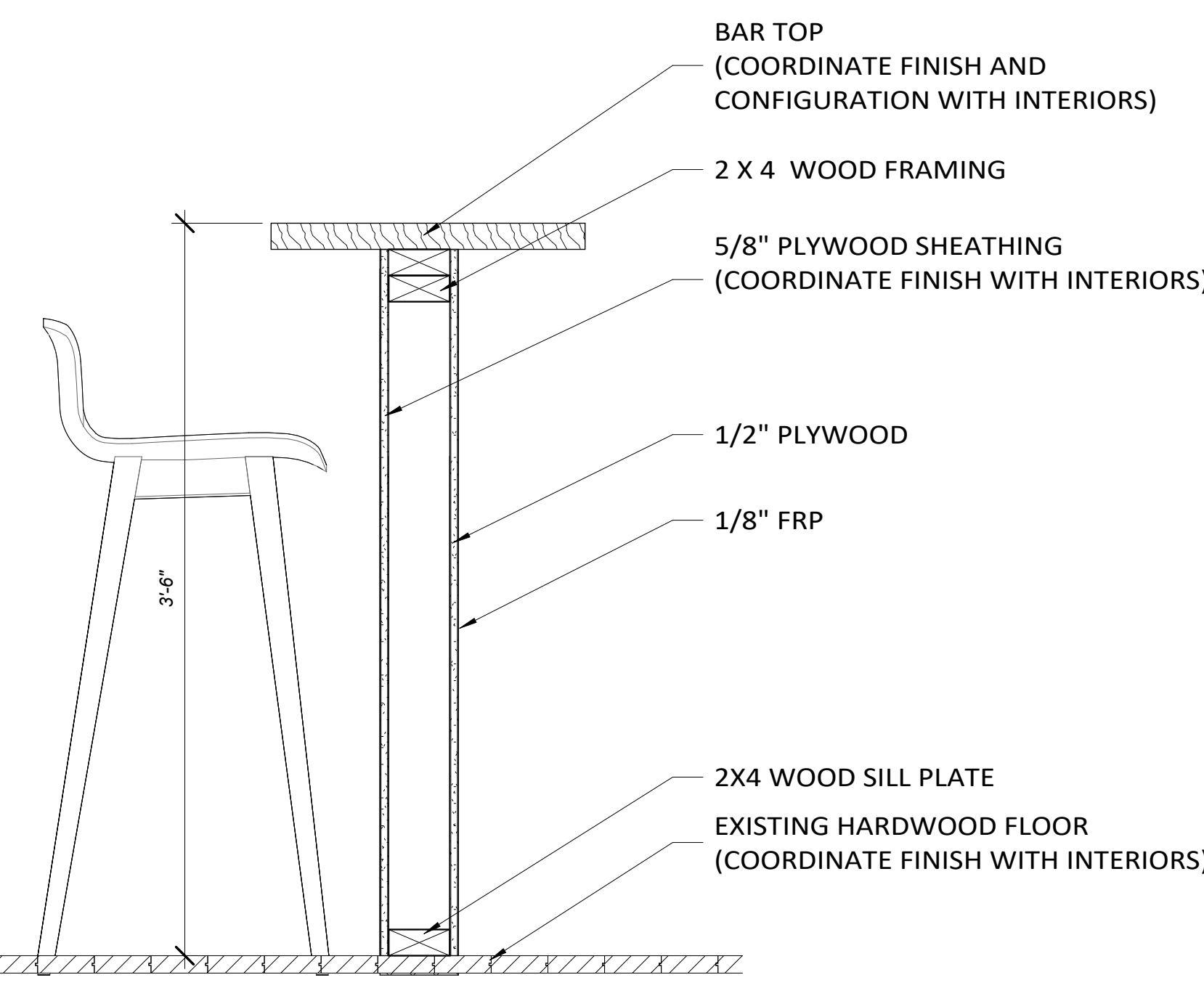
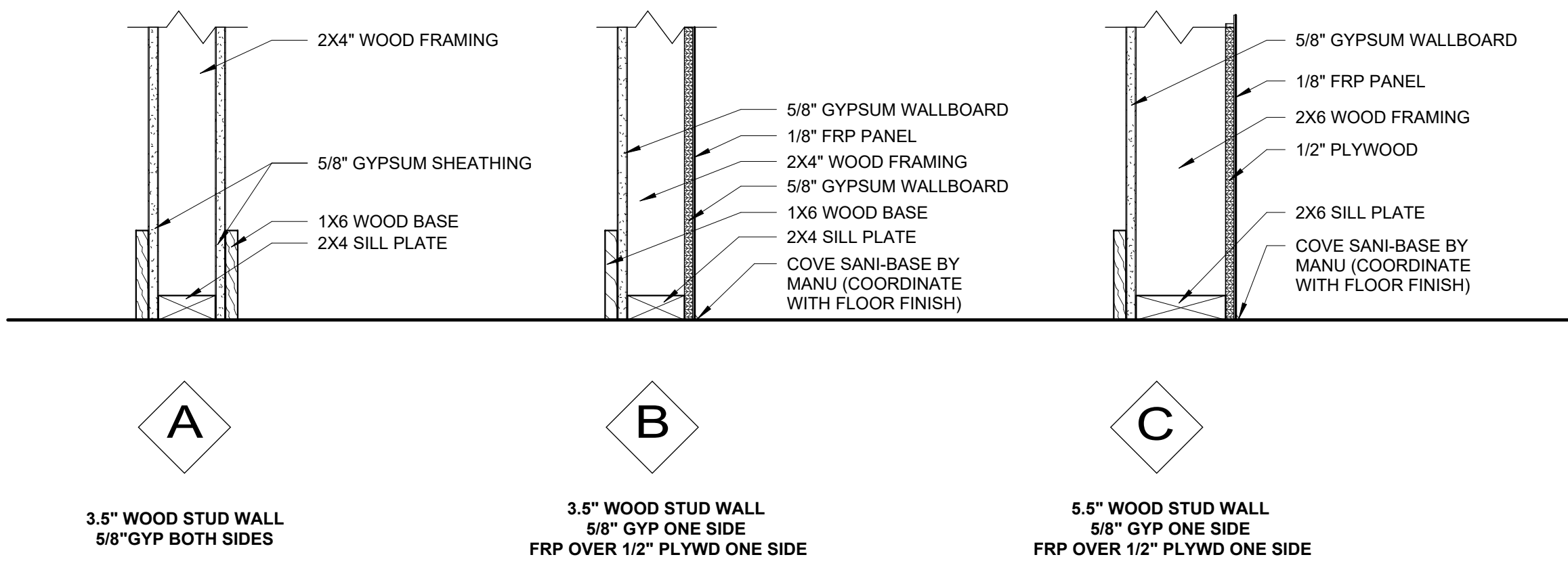
DOOR TYPES



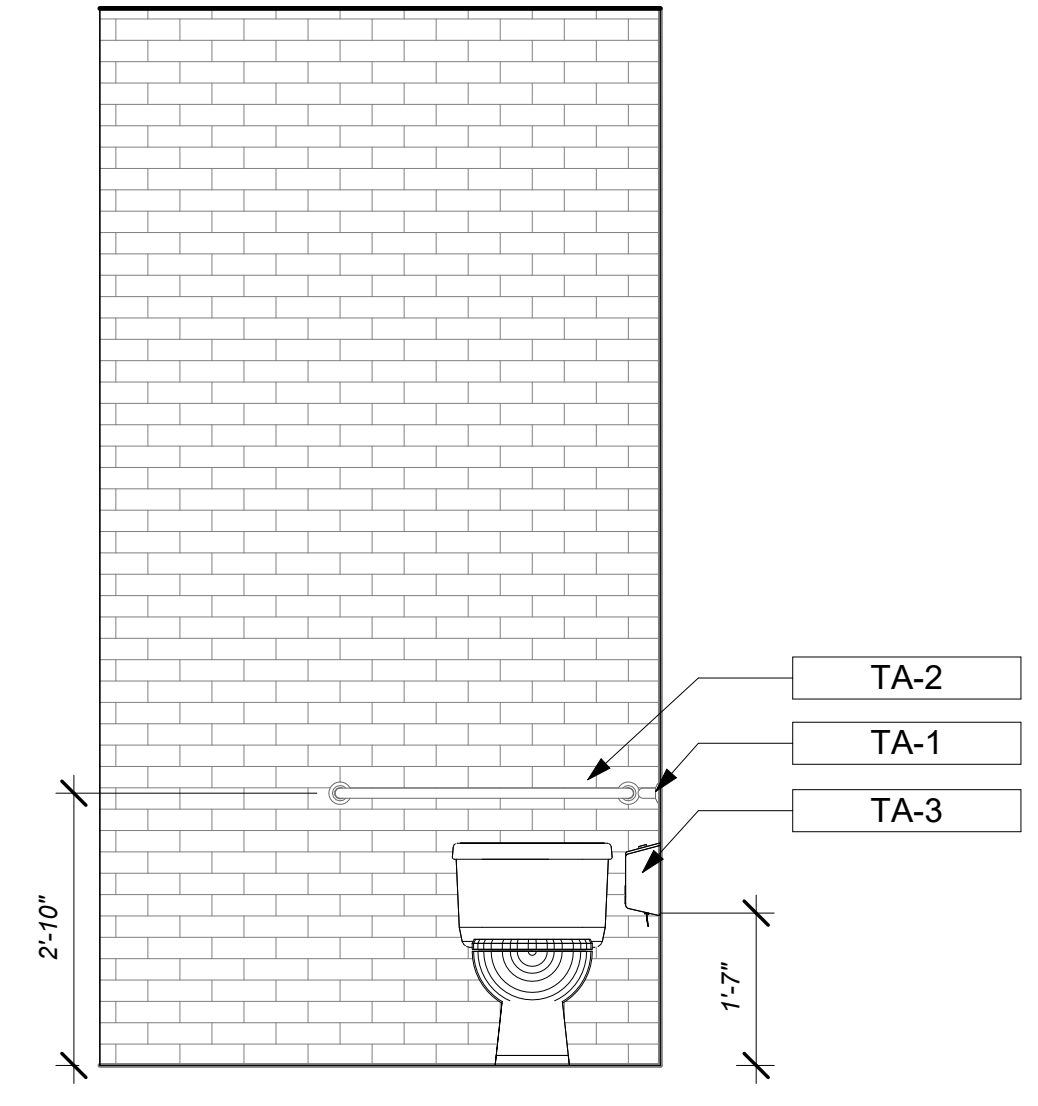
CASEMENT TYPES



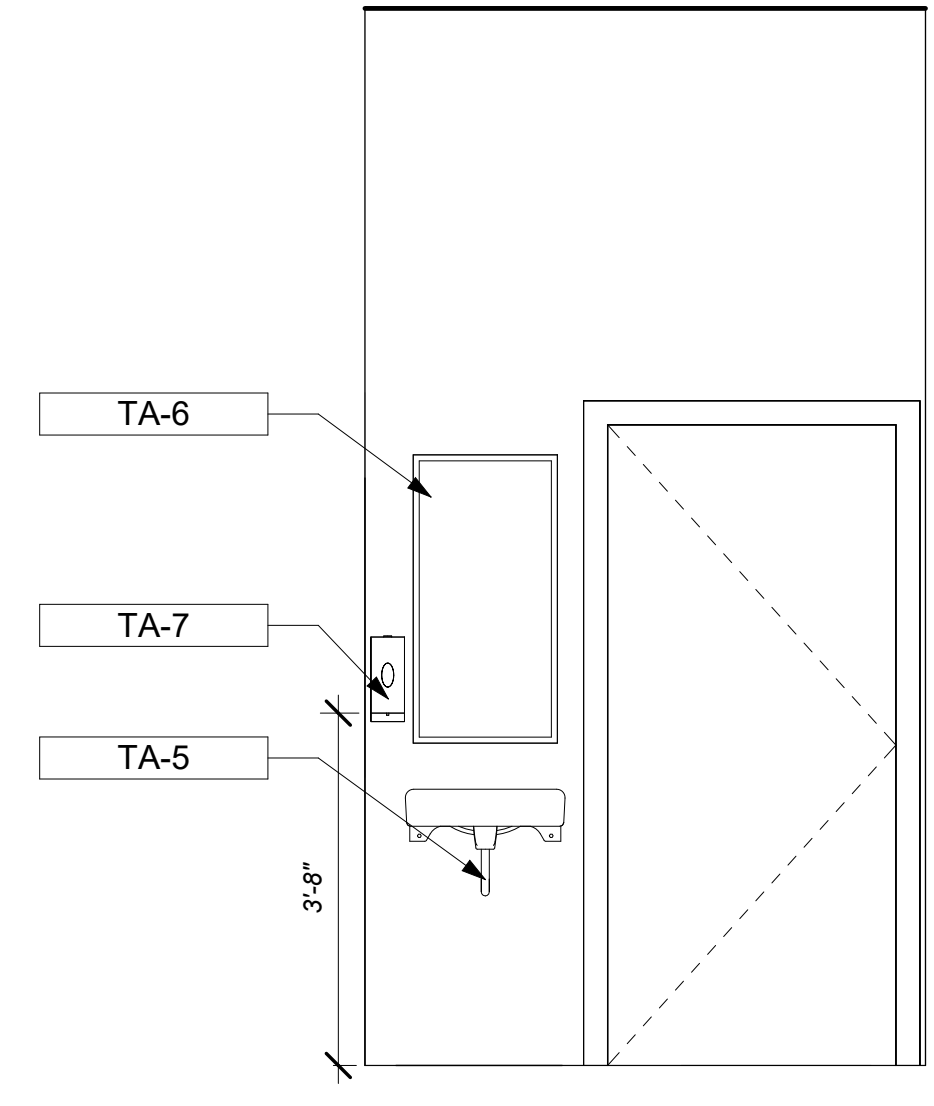
WALL TYPES



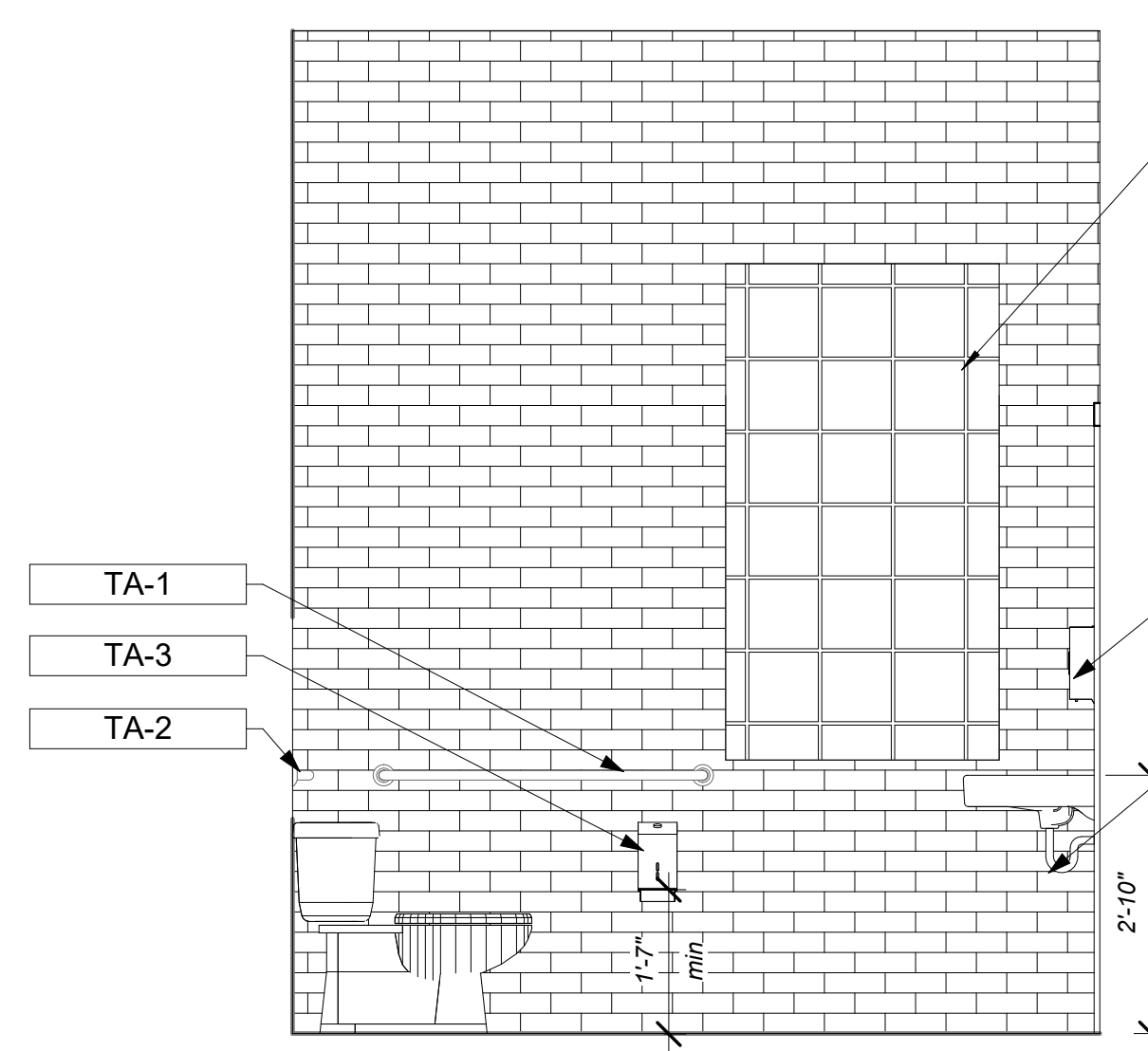
1 ENLARGED PLAN - RESTROOM
1/2" = 1'-0"



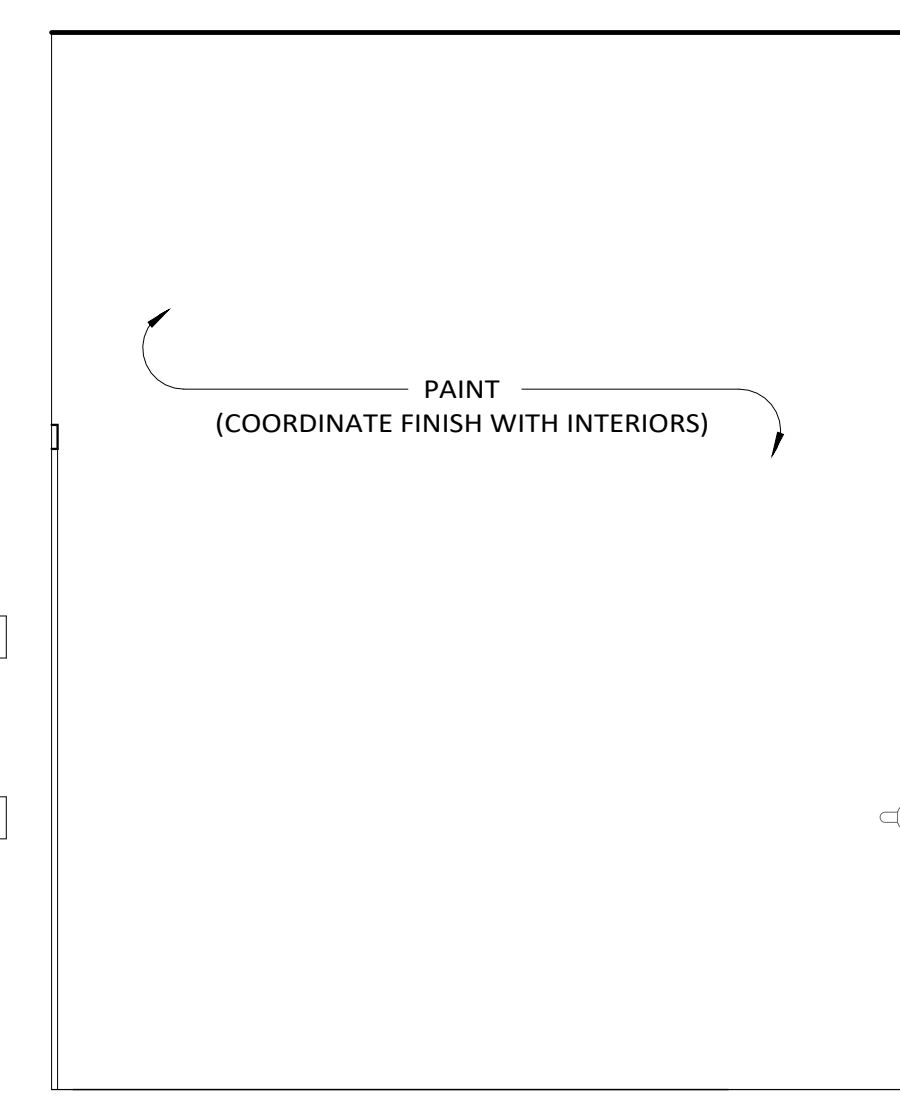
2 ADA RESTROOM 1
1/2" = 1'-0"



3 ADA RESTROOM 2
1/2" = 1'-0"



4 ADA RESTROOM 3
1/2" = 1'-0"



5 ADA RESTROOM 4
1/2" = 1'-0"

RESTROOM ACCESSORIES

Keynote	Description	Model	Comments
TA-1	Traditional 42in ADA compliant grab bar	10545-BS	
TA-2	Traditional 24in ADA compliant grab bar	10544-BS	
TA-3	Bobrick Surface Mounted Toilet Tissue Cabinet - ClassicSeries B-2721	B-2721	
TA-4	NA	NA	
TA-5	ADA UNDERSINK WRAP	TYPICAL	
TA-6	MIRROR W/ ANGLE FRAME	BOBRICK B-290	
TA-7	Bobrick Automatic Wall Mounted Liquid Soap Dispenser - B-2012	B-2012	



REVISIONS

#	DESCRIPTION	DATE

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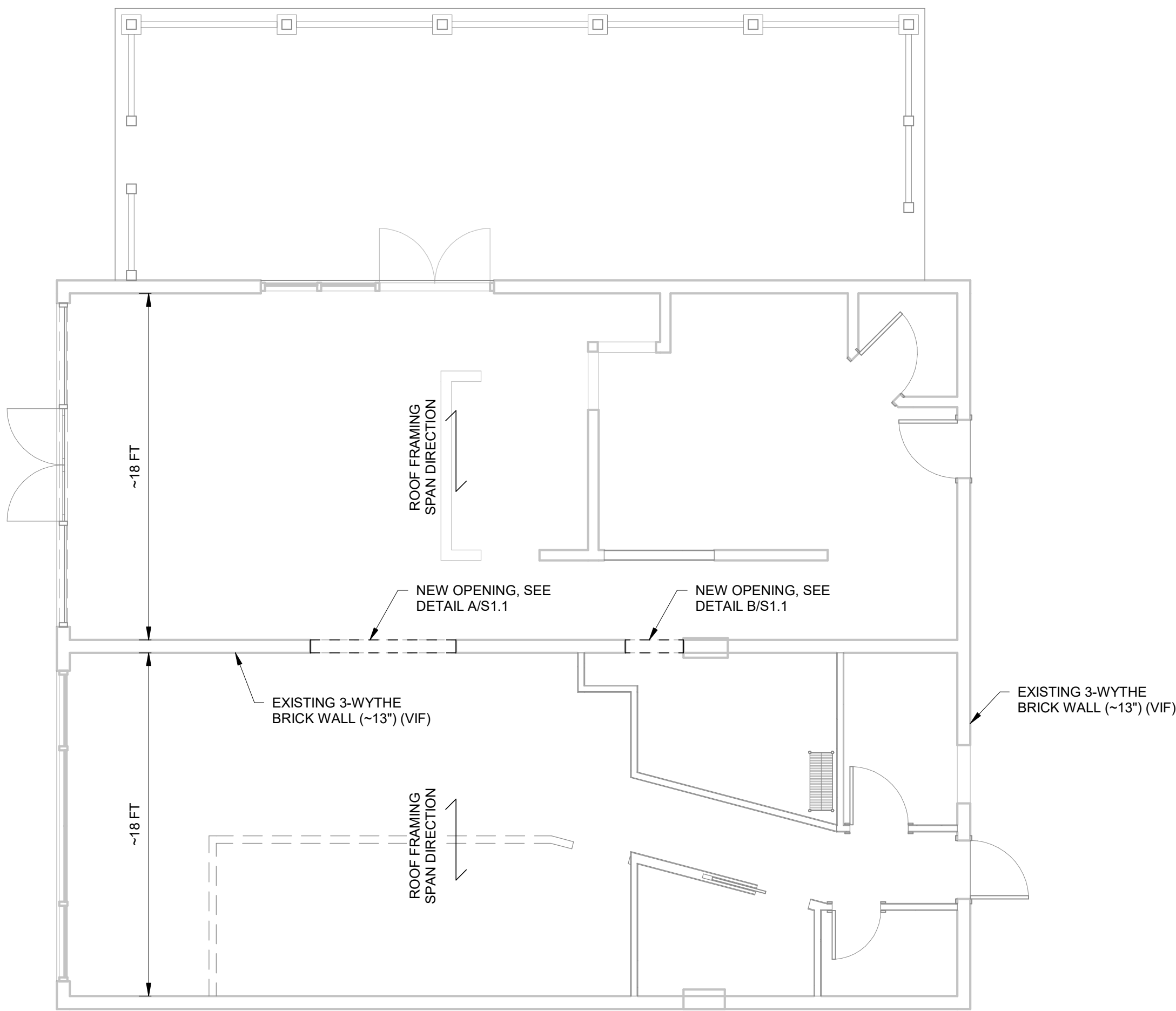
ROSE ARCHITECTS

BULL STREET TACO - MASONRY OPENINGS

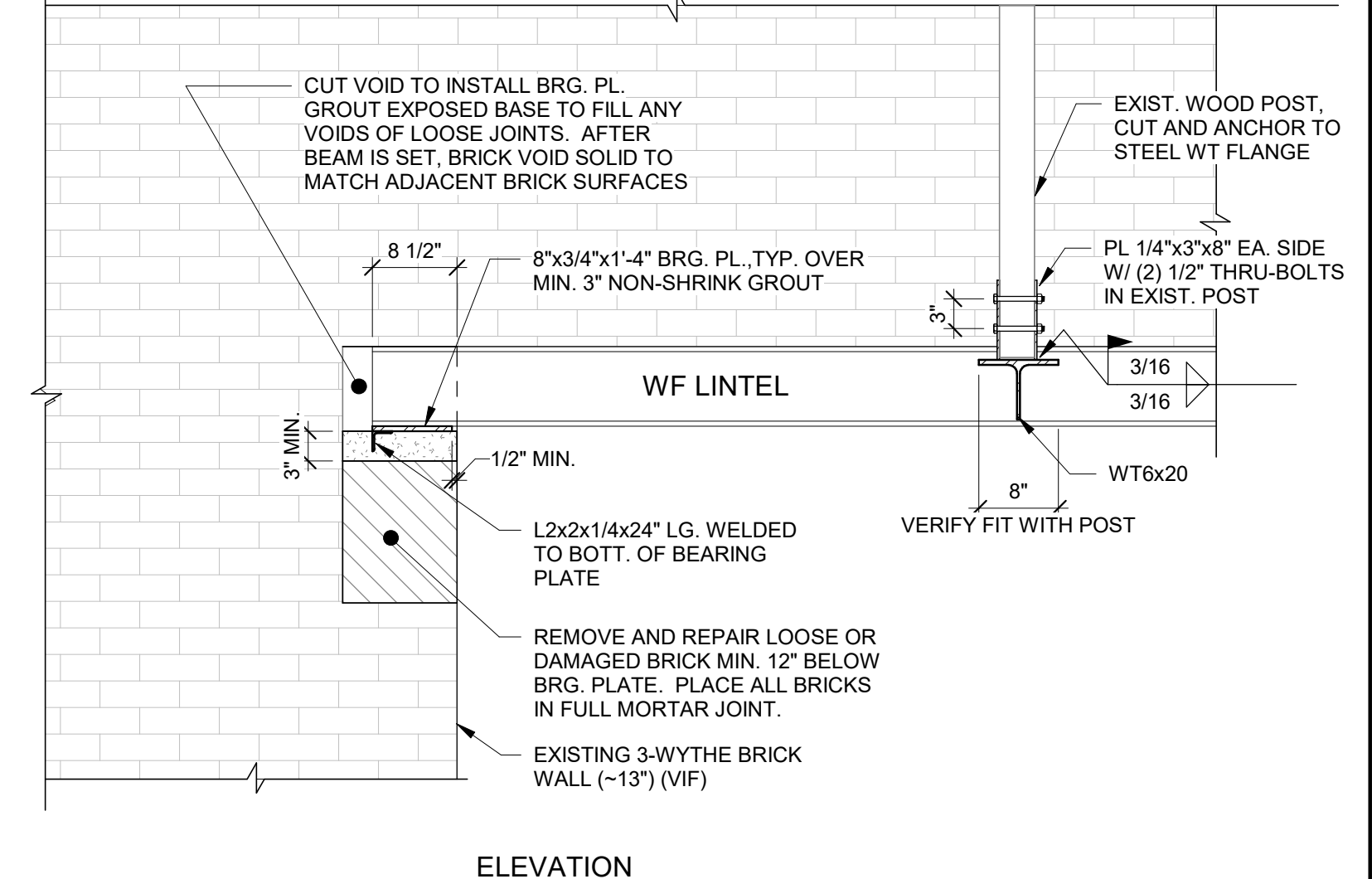
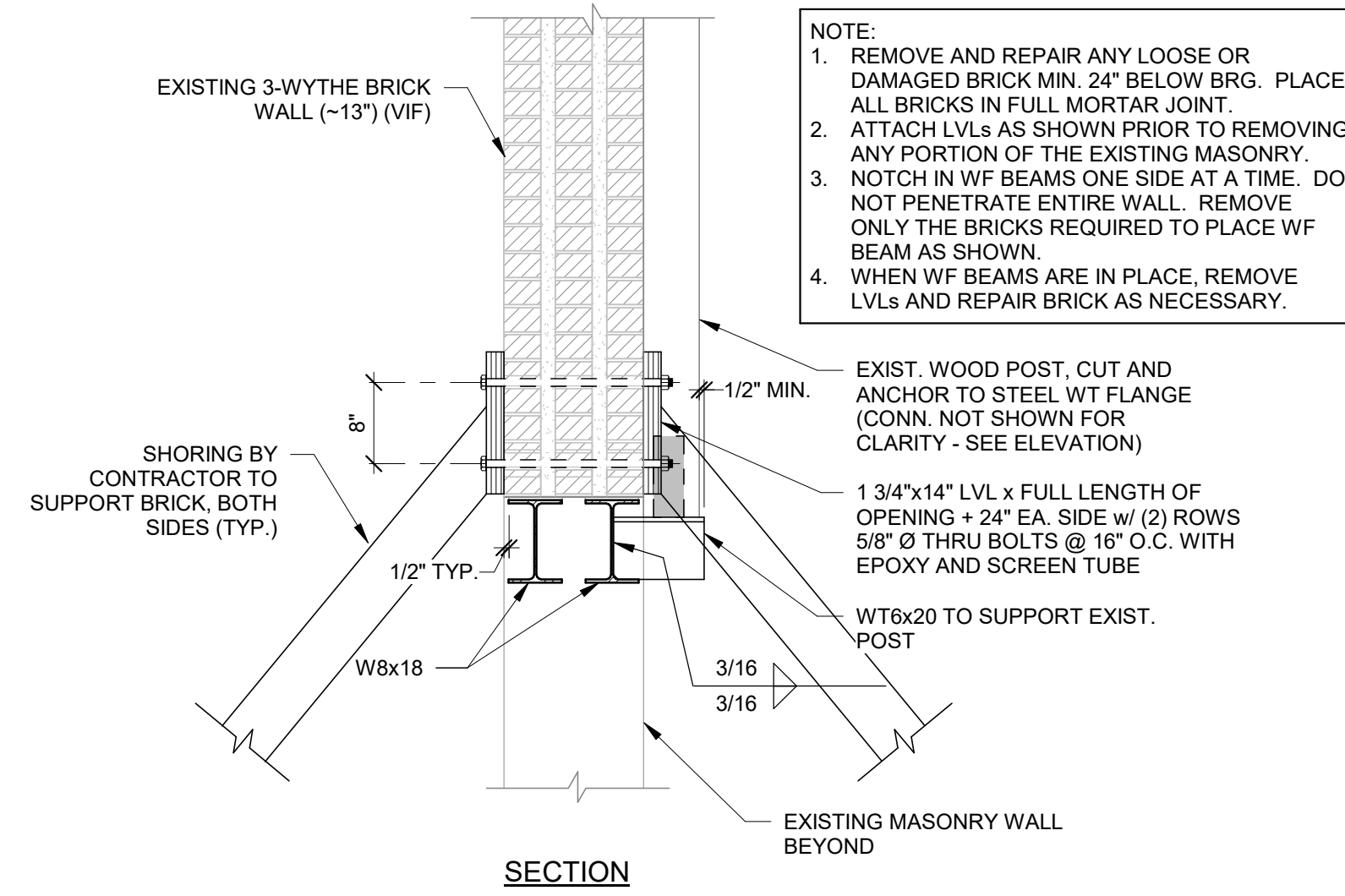
1608 BULL STREET,
SAVANNAH, GA 31401

PROJECT NO.	22.250
DATE	10/31/22
DRAWN BY	RP
CHECKED BY	BKS

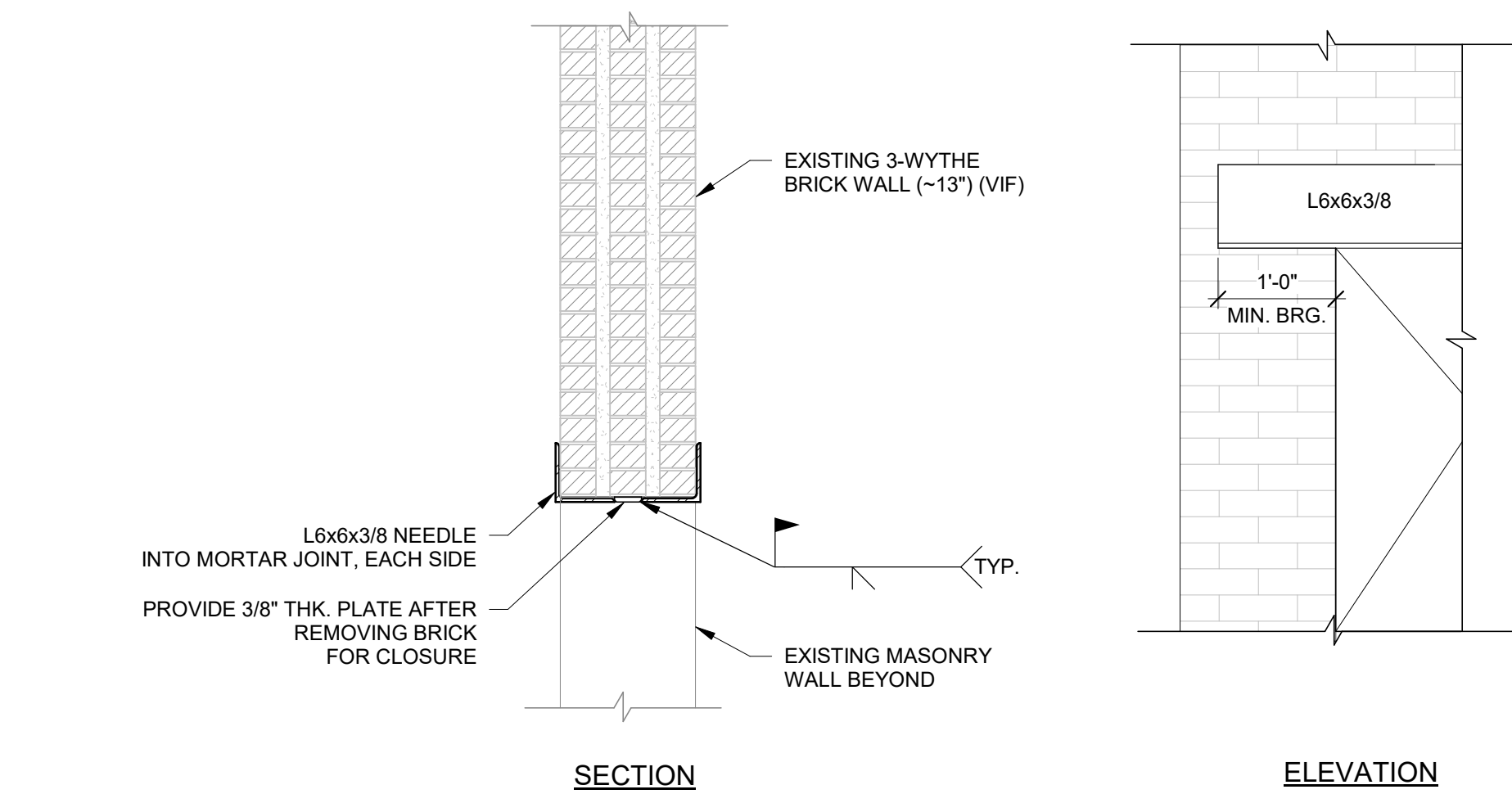
MASONRY OPENINGS



FIRST FLOOR PLAN NOTES:
1. COORDINATE WITH ARCHITECTURAL DRAWINGS FOR NEW OPENING LOCATION.



A NEW WALL OPENING LINTEL DETAIL FOR 8'-0" MAX. OPENING WIDTH



ELEVATION

B NEW WALL OPENING LINTEL DETAIL FOR 3'-4" MAX. OPENING WIDTH

STRUCTURAL DESIGN CRITERIA

BUILDING CODE: 2018 INTERNATIONAL BUILDING CODE (IBC)

- DEAD LOAD:
- ROOF = 30 PSF
 - BRICK WALLS = 120 PSF (3-WYTHE)

- LIVE LOAD:
- ROOF = 20 PSF

GENERAL REQUIREMENTS

1. THE INTENT OF THESE DRAWINGS IS TO SHOW ALL ITEMS NECESSARY TO SUPPORT THE MASONRY OPENINGS. FOR ITEMS, METHODS, AND/OR MATERIALS NOT SHOWN; THE MINIMUM REQUIREMENTS OF THE 2018 INTERNATIONAL BUILDING CODE SHALL GOVERN.
2. THE STRUCTURAL DRAWINGS REPRESENT THE FINISHED STRUCTURE. THEY DO NOT INDICATE THE METHOD OR SEQUENCE OF CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR AND PROVIDE ALL MEASURES NECESSARY TO PROTECT THE STRUCTURE DURING CONSTRUCTION. SUCH MEASURES SHALL INCLUDE, BUT NOT BE LIMITED TO, BRACING AND SHORING. THE STRUCTURAL ENGINEER SHALL NOT BE RESPONSIBLE FOR THE CONTRACTOR MEANS, METHODS, TECHNIQUES AND SEQUENCES FOR PROCEDURE OF CONSTRUCTION, OR THE SAFETY PRECAUTIONS.

EXISTING CONDITIONS

1. THE DESIGN IS BASED ON BASIC FIELD MEASUREMENTS AND ASSUMED CONDITIONS. THE CONTRACTOR SHALL FIELD VERIFY CONDITIONS THAT MAY AFFECT THE STRUCTURAL DESIGN. IF ANY DEVIATIONS ARE DISCOVERED BETWEEN ACTUAL CONDITION AND THE CONDITIONS SHOWN ON THESE DRAWINGS, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT AND ENGINEER IMMEDIATELY, AS MODIFICATIONS MAY BE REQUIRED.
2. ITEMS REQUIRING FIELD VERIFICATION INCLUDE:
 - A. PLAN DIMENSIONS
 - B. SPAN DIRECTIONS
 - C. WALL THICKNESS - 13" (3-WYTHE)
 - D. WALL HEIGHT ABOVE OPENINGS 18 FT MAX

STRUCTURAL STEEL

1. ALL FABRICATION AND ERECTION SHALL CONFORM TO AISC 303-16 - AISC CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES & AISC 360-16 - SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS.
2. MATERIAL REQUIREMENTS FOR STRUCTURAL SHAPES AND PLATES:
 - A. W, WT - ASTM A992
 - B. L PLATES - ASTM A36
3. MATERIAL REQUIREMENTS FOR STRUCTURAL FASTENERS AND WELDING:
 - A. THREADED RODS - ASTM F1554 GR. 36
 - B. NUTS - ASTM A563
 - C. WASHERS - ASTM F436
 - D. WELDING ELECTRODES - AWS D1.1, E70 SERIES
4. SHOP PAINT ALL STEEL SURFACES WITH RUST-INHIBITING PRIMER. AFTER INSTALLATION, PROMPTLY CLEAN, PREPARE, AND REPRIME FIELD CONNECTIONS, RUST SPOTS, AND ABRADED SURFACES WITH A PRIMER OF SAME TYPE AS SHOP PRIMER PER SSPC-SP2 (HAND-TOOL CLEANING).

ANCHOR EPOXY

1. ADHESIVE FOR ANCHORS WITH SCREEN TUBES SHALL BE SIMPSON SET EPOXY ADHESIVE (ICC-ES ESR-1772) WITH 8-INCH LONG SCREEN TUBE (PART # ETS758 OR ETS758P).
2. ALL HOLES SHALL BE DRILLED WITH A 1" DIAMETER CARBIDE-TIPPED DRILL BIT WITH THE DRILL SET IN THE ROTATION-ONLY MODE.
3. INSTALLATION OF ANCHOR EPOXY ADHESIVE SHALL BE PERFORMED BY A QUALIFIED INSTALLER WITH PREVIOUS EXPERIENCE IN APPLICATIONS INTO UNREINFORCED MASONRY.

PLUMBING SPECIFICATIONS

GENERAL PROVISIONS

IMPOSED REGULATIONS: APPLICABLE PROVISIONS OF THE STATE AND LOCAL CODES AND OF THE FOLLOWING CODES AND STANDARDS, IN ADDITION TO THOSE LISTED ELSEWHERE IN THE SPECIFICATIONS, ARE HEREBY IMPOSED ON A GENERAL BASIS FOR PLUMBING WORK:

INTERNATIONAL PLUMBING CODE - 2018 EDITION
INTERNATIONAL FUEL GAS CODE - 2018 EDITION

SCOPE OF WORK: PROVIDE ALL LABOR, MATERIALS, EQUIPMENT AND SUPERVISION TO CONSTRUCT COMPLETE AND OPERABLE PLUMBING SYSTEMS AS INDICATED ON THE DRAWINGS AND SPECIFIED HEREIN. ALL MATERIALS AND EQUIPMENT USED SHALL BE NEW, UNDAMAGED AND FREE FROM ANY DEFECTS.

PRODUCT WARRANTIES: PROVIDE MANUFACTURER'S STANDARD PRINTED COMMITMENT IN REFERENCE TO A SPECIFIC PRODUCT AND NORMAL APPLICATION, STATING THAT CERTAIN ACTS OF RESTITUTION WILL BE PERFORMED FOR THE PURCHASER OR OWNER BY THE MANUFACTURER, WHEN AND IF THE PRODUCT FAILS WITHIN CERTAIN OPERATIONAL CONDITIONS AND TIME LIMITS. WHERE THE WARRANTY REQUIREMENTS OF A SPECIFIC SPECIFICATION SECTION EXCEEDS THE MANUFACTURER'S STANDARD WARRANTY, THE MORE STRINGENT REQUIREMENTS WILL APPLY AND MODIFIED MANUFACTURER'S WARRANTY SHALL BE PROVIDED. IN NO CASE SHALL THE MANUFACTURER'S WARRANTY BE LESS THAN ONE (1) YEAR.

ELECTRICAL WORK: COORDINATE THE PLUMBING AND FIRE PROTECTION WORK WITH ELECTRICAL WORK, AND PROPERLY INTERFACE WITH THE ELECTRICAL SERVICE. IN GENERAL, AND EXCEPT AS OTHERWISE INDICATED, INSTALL MECHANICAL EQUIPMENT READY FOR ELECTRICAL CONNECTION. REFER TO ELECTRICAL SECTIONS OF THE SPECIFICATIONS FOR ELECTRICAL CONNECTION OF MECHANICAL EQUIPMENT.

UTILITY CONNECTIONS: COORDINATE THE CONNECTION OF MECHANICAL SYSTEMS WITH EXTERIOR UNDERGROUND UTILITIES AND SERVICES. COMPLY WITH THE REQUIREMENTS OF GOVERNING REGULATIONS, FRANCHISED SERVICE COMPANIES AND CONTROLLING AGENCIES. PROVIDE A SINGLE CONNECTION FOR EACH SERVICE EXCEPT WHERE MULTIPLE CONNECTION ARE INDICATED.

PLUMBING IDENTIFICATION MATERIALS:

PLASTIC PIPE MARKERS: PROJECT MANUFACTURER'S STANDARD PRE-PRINTED, FLEXIBLE OR SEMI-RIGID, PERMANENT, COLOR-CODED, PLASTIC-SHEET PIPE MARKERS, COMPLYING WITH ANSI A13.1.

PROVIDE FULL BAND PIPE MARKERS, EXTENDING 360 DEGREES AROUND PIPE AT EACH LOCATION, FASTENED BY SNAP-ON APPLICATION OF PRE-TENSIONED SEMI-RIGID PLASTIC PIPE MARKER.

IDENTIFYING SYSTEMS: INSTALL PIPE MARKER ON PIPING OF THE FOLLOWING PIPING SYSTEMS:

DOMESTIC COLD WATER, HOT WATER, AND HOT WATER RETURN PIPING

LOCATE PIPE MARKERS WHEREVER PIPING IS EXPOSED TO VIEW IN MECHANICAL ROOMS, ACCESSIBLE MAINTENANCE SPACES (INCLUDING ACCESSIBLE AREAS ABOVE CEILINGS), NEAR EACH VALVE AND CONTROL DEVICES, NEAR MAJOR EQUIPMENT ITEMS AND OTHER POINTS OF ORIGINATION AND TERMINATION AND SPACED INTERMEDIATELY AT MAXIMUM SPACING OF 25 FEET ALONG EACH PIPING RUN.

DOMESTIC WATER PIPING SYSTEM

WATER DISTRIBUTION PIPING 4" AND SMALLER SHALL BE TYPE L HARD DRAWN COPPER TUBE, ASTM B88-83 WITH WROUGHT COPPER-SOLDER JOINT FITTINGS. CPVC OR PEX IS ALLOWED AT OWNER'S OPTION.

WATER HAMMER ARRESTERS SHALL BE BELLOWS TYPE; PRECHARGED COMPRESSOR CHAMBER; STAINLESS STEEL CASING AND BELLOWS. PROVIDE SIZES COMPLYING WITH PDI STANDARD WH-201, JOSAM 75000 SERIES, JAY R. SMITH FIG 5000, OR ZURN 1700 SERIES.

BALL VALVES: BALL VALVES SHALL HAVE TWO-PIECE BRONZE OR BRASS BODY, MEETING MSS-SP110, FULL OR STANDARD PORT, BLOWOUT-PROOF STEM AND ADJUSTABLE PACKING NUT INDEPENDENT OF HANDLE. VALVES SHALL BE RATED FOR 150 SWP, 600 WOG OR 300 CWP. VALVES SHALL BE BY APOLLO, MILWAUKEE, NIBCO, VICTAULIC, WATTS OR RED-WHITE.

GATE VALVES: VALVES 3 INCHES AND SMALLER SHALL BE ALL BRONZE, MEETING MSS-SP80, INSERTED BONNET, SOLID WEDGE, NON-RISING STEM TYPE AND RATED AT 125 SWP, 200 WOG. HANDLES SHALL BE MALLEABLE IRON WITH BRONZE STEM. VALVES SHALL BE BY MILWAUKEE, NIBCO, WATTS OR RED-WHITE.

GLOBE VALVES: VALVES 3 INCHES AND SMALLER SHALL BE ALL BRONZE, MEETING MSS-SP80, INSERTED BONNET WITH INTEGRAL SEAT AND RENEWABLE DISC. VALVES SHALL BE RATED AT 125 SWP, 200 WOG. HANDLES SHALL BE MALLEABLE IRON WITH BRONZE STEM. VALVES SHALL BE BY MILWAUKEE, NIBCO, WATTS OR RED-WHITE.

CHECK VALVES: VALVES 2 INCHES AND SMALLER SHALL BE BRONZE BODY WITH BRONZE SEAT AND DISC AND SHALL BE RATED AT 125 SWP, 200 WOG. VALVES SHALL BE BY MILWAUKEE, NIBCO, WATTS OR RED-WHITE.

FLOW CONTROL VALVES: VALVES FOR DOMESTIC HOT WATER RETURN SHALL HAVE BRASS AND STAINLESS STEEL BODIES, WITH INTEGRAL BALL VALVE, GROUND JOINT UNION, AND SOLDER ENDS. VALVE SHALL BE RATED FOR 600 PSIG AND FLOW RATE, AS SHOWN ON DRAWINGS. FLOW CONTROL VALVES SHALL BE AUTOFLOW MODEL FU-050, HAYES 2500 OR EQUIVALENT BY GRISWOLD.

SOIL, WASTE AND VENT PIPING SYSTEM

SOIL, WASTE AND VENT PIPING SHALL BE SCHEDULE 40 ABS-DWV (ASTM D2661-82) OR PVC-DWV (ASTM D2665-82) PIPE AND FITTINGS. JOINTS SHALL BE SOLVENT CEMENT SOCKET TYPE. SERVICE WEIGHT HUBLESS CAST IRON PIPE AND FITTINGS, ASTM A74. JOINTS IN UNDERGROUND CAST IRON PIPING SHALL BE MADE USING AN ASTM-C564 NEOPRENE ELASTOMERIC COMPRESSION GASKET CONFORMING TO THE REQUIREMENTS OF ASTM C 1563. DRAINAGE PIPING SUBJECT TO CARRYING WATER IN EXCESS OF 140°F SHALL BE CAST IRON.

GREASE WASTE SHALL BE HUBLESS CAST IRON. HUBLESS CAST IRON PIPE AND FITTINGS SHALL BE MANUFACTURED FROM GRAY CAST IRON AND SHALL CONFORM TO ASTM A 888 AND CISPI STANDARD 301. HUBLESS COUPLINGS SHALL CONFORM TO CISPI STANDARD 310. GASKETS SHALL CONFORM TO ASTM C 564. HEAVY DUTY AND MEDIUM DUTY COUPLINGS SHALL CONFORM TO ASTM C 1540.

FLOOR DRAIN FD: PROVIDE COATED CAST IRON FLOOR DRAINS WITH INTEGRAL PIPE STOPS, FLASHING COLLAR, SEEPAGE FLANGE, 6 INCH DIAMETER ROUND NIKALOY STRAINER. FLOOR DRAINS SHALL BE BY: WADE, JOSAM, ZURN, J.R. SMITH & WATTS.

TESTING: THE PIPING OF THE SOIL, WASTE AND VENT SYSTEM SHALL BE TESTED WITH WATER BEFORE INSTALLING FIXTURES. WATER TEST SHALL BE APPLIED TO THE SOIL, WASTE AND VENTING SYSTEM EITHER IN ITS ENTIRETY OR IN SECTIONS. IF THE TEST IS APPLIED TO THE ENTIRE SYSTEM, ALL OPENINGS IN THE PIPING SHALL BE CLOSED EXCEPT THE HIGHEST OPENING, AND THE SYSTEM SHALL BE FILLED WITH WATER TO THE POINT OF OVERFLOW. IF THE SYSTEM IS TESTED IN SECTIONS, EACH OPENING OF THE SECTION UNDER TEST SHALL BE PLUGGED AND EACH SECTION SHALL BE FILLED WITH WATER AND TESTED WITH AT LEAST A 10 FOOT HEAD OF WATER. IN TESTING SUCCESSIVE SECTIONS, AT LEAST THE UPPER 10 FEET OF THE NEXT PRECEDING SECTION SHALL BE TESTED SO THAT EACH JOINT OR PIPE IN THE BUILDING EXCEPT THE UPPER MOST 10 FEET OF THE SYSTEM HAS BEEN SUBMITTED TO A TEST OF AT LEAST 10 FOOT HEAD OF WATER. THE WATER SHALL BE KEPT IN THE SYSTEM, OR IN THE PORTION UNDER TEST, FOR AT LEAST 30 MINUTES BEFORE THE INSPECTION STARTS; THE SYSTEM SHALL BE TIGHT AT ALL JOINTS. JOINTS THAT FAIL THE TEST SHALL BE REMADE AND RETESTED.

GAS PIPING SYSTEMS

ABOVE GROUND GAS PIPING SHALL BE SCHEDULE 40 BLACK STEEL PIPE OF THE SIZE INDICATED WITH CLASS 150 MALLEABLE IRON THREADED FITTINGS.

GAS PRESSURE REGULATORS SHALL BE DIAPHRAGM ACTUATED WITH CAST IRON BODY, ALUMINUM DIAPHRAGM CHAMBER, AND ALL INTERNAL PARTS DESIGNED FOR USE WITH NATURAL GAS. REGULATORS SHALL BE ADJUSTABLE WITH AUTOMATIC LOADING, AUTOMATIC LOW PRESSURE CUT-OFF, AND FULL INTERNAL RELIEF. THE REGULATOR SHALL BE ADJUSTED FOR OUTLET PRESSURE INDICATED ON THE DRAWINGS. THE OUTLET PRESSURE SHALL NOT VARY MORE THAN 1 INCH W.C. FROM THE SET POINT AT SPECIFIED CAPACITY. THE REGULATOR SHALL BE CAPABLE OF COMPLETE SHUT-OFF IN THE EVENT THE SUPPLY PRESSURE IS INTERRUPTED OR THE GAS DEMAND EXCEEDS THE REGULATOR CAPACITY AND SHALL REMAIN OFF UNTIL THE REGULATOR IS MANUALLY RESET. THE REGULATOR SHALL HAVE A WEATHERPROOF, BUG PROOF, SCREENED VENT CAP INSTALLED IN THE VENT TAPPING. REGULATORS SHALL BE BY SENSUS (ROCKWELL), FISHER, OR SINGER.

GAS SOLENOID VALVES 3 INCHES IN SIZE AND SMALLER SHALL BE 2-WAY, NORMALLY CLOSED TYPE WITH MANUAL RESET FOR LOW PRESSURE SERVICE. THE VALVE SHALL HAVE AN ALUMINUM BODY, BUNA N SEAT, AND BUNA N DISC. MAXIMUM PRESSURE DROP SHALL NOT EXCEED 1" W.C. AT SYSTEM CAPACITY. THE SOLENOID ENCLOSURE SHALL BE NEMA 1 AND HAVE ELECTRICAL CHARACTERISTICS AS SHOWN ON THE DRAWINGS. VALVE SHALL BE UNDERWRITERS LABORATORIES LABELED. VALVES SHALL BE ASCO 8044 COMBUSTION VALVE SERIES OR EQUIVALENT BY SINGER OR FISHER.

PLUG VALVES SHALL HAVE IRON BODY (SEMI-STEEL) LUBRICATED TYPE CAST BRONZE PLUG, AND THREADED ENDS RATED FOR 175 PSIG W.O.G. WORKING PRESSURE. PLUG VALVES SHALL BE ROCKWELL 142, WALWORTH 655, OR POWELL 2200.

SHUTOFF VALVES 2 INCHES AND SMALLER SHALL BE BALL VALVES. VALVES SHALL HAVE THREADED INLET AND OUTLET CONNECTIONS, TWO-PIECE BRASS BODY, MEETING MSS-SP110, FULL OR STANDARD PORT, BLOWOUT-PROOFSTEM AND ADJUSTABLE PACKING NUT INDEPENDENT OF HANDLE. VALVES SHALL BE ASME B16.44 AND UL LISTED FOR USE WITH NATURAL GAS. VALVE SHALL BE RATED FOR 250 PSI, 600 CWP. VALVES SHALL BE BY MAXITROL, APOLLO, HAYS, MILWAUKEE, NIBCO, OR WATTS.

WATER HEATERS

WATER HEATERS SHALL BE CONFIGURED TO OPERATE WITH NATURAL GAS AND A 120 VOL/160 HZ AC POWER SOURCE. UNITS SHALL HAVE A BTU INPUT RANGE OF 15,000 BTU/HR TO 199,500 BTU/HR, A MINIMUM RECOVERY EFFICIENCY RATING OF 82%, A MINIMUM HOT WATER OUTLET CAPACITY OF 6.3 GALLONS PER MINUTE (WITH A 60 °F TEMPERATURE RISE), AND A MINIMUM OPERATING FLOW RATE OF 0.6 GALLON PER MINUTE (WITH A 60 °F TEMPERATURE RISE). WATER HEATERS SHALL BE MICROPROCESSOR CONTROLLED AND UTILIZE A DIRECT ELECTRONIC IGNITION SYSTEM (WITH NO STANDING PILOT), FULLY MODULATING GAS CONTROL VALVE, TURBINE FLOW METER, AUTOMATIC ELECTRO-MECHANICAL WATER FLOW CONTROL VALVE, AND WATER TEMPERATURE THERMOSTATS TO MAINTAIN OUTLET WATER TEMPERATURE BETWEEN ± 2 °F OF SET POINT TEMPERATURE. UNITS SHALL INCORPORATE THE FOLLOWING INTERNAL SAFETY DEVICES: FLAME FAILURE LOCKOUT, BOILING PROTECTION LOCKOUT, THERMAL OVERHEAT PROTECTION, INTERNAL FREEZE PROTECTION FOR AMBIENT TEMPERATURES AS LOW AS -30 °F, AND LOCKOUT PROTECTION IN THE EVENT OF A BLOCK FLOW. WATER HEATERS SHALL UTILIZE A REMOTE TEMPERATURE THERMOSTAT CONTROLLER TO PROVIDE AN ADJUSTABLE SET POINT RANGE OF 96 °F TO 180 °F. UNITS SHALL ALSO BE CAPABLE OF STORING AND DISPLAYING UP TO 9 DIAGNOSTIC MAINTENANCE CODES, VIA THE DISPLAY ON THE REMOTE TEMPERATURE THERMOSTAT CONTROLLER. WATER HEATERS SHALL BE SUITABLE FOR EXTERIOR INSTALLATION.

WATER HEATERS SHALL HAVE AN INTERNALLY COATED COPPER HEAT EXCHANGER. UNITS SHALL HAVE STAINLESS STEEL BURNERS, SOLID BRASS WATER FLOW CONTROL VALVE, AND SOLID BRASS INLET AND OUTLET WATER CONNECTIONS. THESE AND ALL OTHER PARTS SHALL BE WARRANTED AGAINST MATERIAL DEFECTS OR WORKMANSHIP FOR A MINIMUM PERIOD OF 5 YEARS FROM THE DATE OF PURCHASE. WATER HEATERS SHALL BE BY A.O. SMITH, RINNAI, NAVIEN, INTELLIHOT OR HTP.

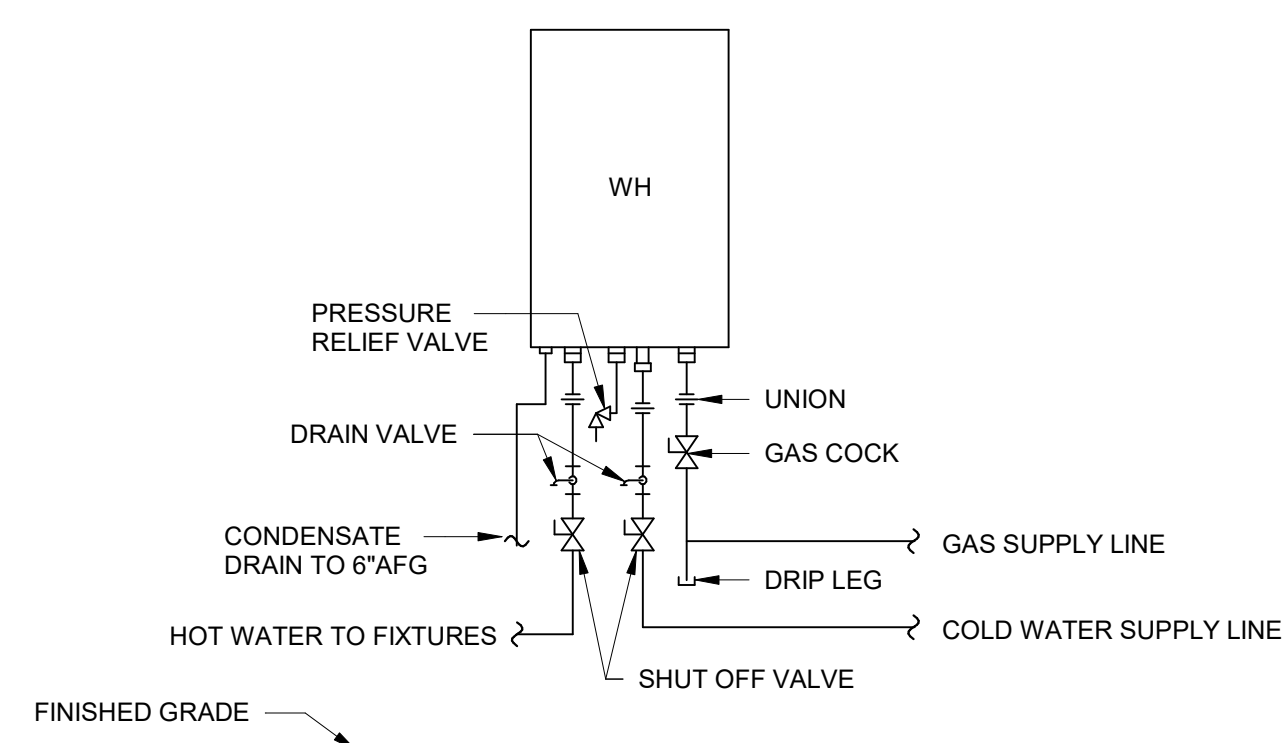
PIPE INSULATION: INSULATION SHALL BE PREFORMED, TWO-PIECE, HEAVY DENSITY FIBERGLASS WITH SELF SEALING ASJ JACKET CONFORMING TO FS HH-1-558 FORM D OR CELLULAR FOAM, TYPE III, CLASS 12. VALVES AND FITTINGS SHALL BE INSULATED WITH FIBERGLASS INSULATION OF THE SAME MATERIAL THICKNESS AS INSULATION ON ADJACENT PIPE AND HAVING A MOLDED PVC JACKET. JACKETS SHALL BE CERTAINTED SNAP-FORM OR ZESTON PVC. INSULATION THICKNESS SHALL BE 1 INCH THICK FOR ALL SIZES OF COLD WATER AND HOT WATER SUPPLY AND RETURN.

STERILIZATION: THE ENTIRE WATER DISTRIBUTION SYSTEM SHALL BE THOROUGHLY STERILIZED WITH A SOLUTION CONTAINING NOT LESS THAN 50 PARTS PER MILLION OF AVAILABLE CHLORINE. THE CHLORINATING MATERIAL SHALL BE LIQUID CHLORINE CONFORMING TO FEDERAL SPECIFICATION BB-C-120. THE STERILIZATION SOLUTION SHALL BE ALLOWED TO REMAIN IN THE SYSTEM FOR A PERIOD OF 6 HOURS, DURING WHICH TIME ALL VALVES AND FAUCETS SHALL BE OPENED AND CLOSED SEVERAL TIMES. AFTER STERILIZATION, THE SOLUTION SHALL BE FLUSHED FROM THE SYSTEM WITH CLEAN WATER UNTIL THE RESIDUAL CHLORINE CONTENT IS NOT GREATER THAN 0.2 PARTS PER MILLION.

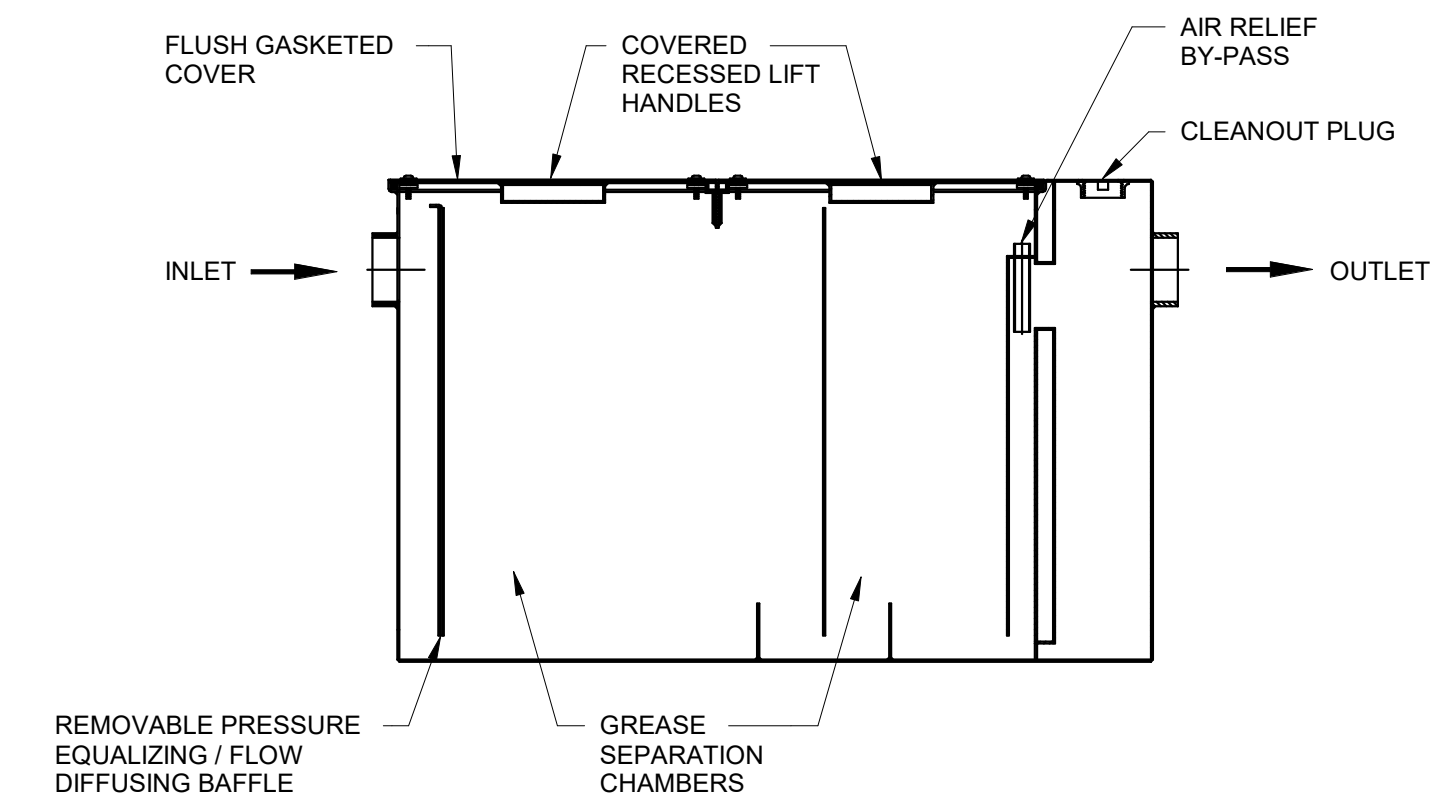
TESTING: THE HYDROSTATIC TEST SHALL BE MADE UPON COMPLETION OF THE ROUGHING-IN AND BEFORE SETTING FIXTURES. THE ENTIRE DOMESTIC COLD WATER AND HOT WATER, AND HOT WATER CIRCULATION PIPING SYSTEM SHALL BE TESTED AT A HYDROSTATIC PRESSURE OF 100 PSIG AND PROVIDE TIGHT AT THIS PRESSURE FOR A PERIOD OF NOT LESS THAN 2 HOURS IN ORDER TO PERMIT INSPECTION OF ALL JOINTS. WHERE A PORTION OF THE WATER PIPING SYSTEM IS TO BE CONCEALED BEFORE COMPLETION, THIS PORTION SHALL BE TESTED SEPARATELY IN A MANNER DESCRIBED FOR THE ENTIRE SYSTEM.

GREASE INTERCEPTOR

ACID RESISTANT COATED INTERIOR AND EXTERIOR FABRICATED STEEL LOW PROFILE, PDI RATE AT: GL-1: 35 GPM AND 70 LBS AND GL-2: 25 GPM AND 50 LBS. GREASE CAPACITY, WITH INTERNAL AIR RELIEF BY-PASS, BRONZE CLEANOUT PLUG AND VISIBLE DOUBLE WALL TRAP SEAL WITH REMOVABLE PRESSURE EQUALIZING/FLOW DIFFUSING INLET BAFFLE, FIXED BOTTOM OUTLET BAFFLE, AND VISIBLE DOUBLE WALL TRAP SEAL. GASKETED NON-SKID SECURED COVER WITH CENTER TIE DOWN ASSEMBLY, COMPLETE WITH EXTERNAL FLOW CONTROL FITTING. FURNISH WITH LOW INLET AND OUTLET, AS NECESSARY. GREASE INTERCEPTOR SHALL BE BY ZURN OR EQUAL.

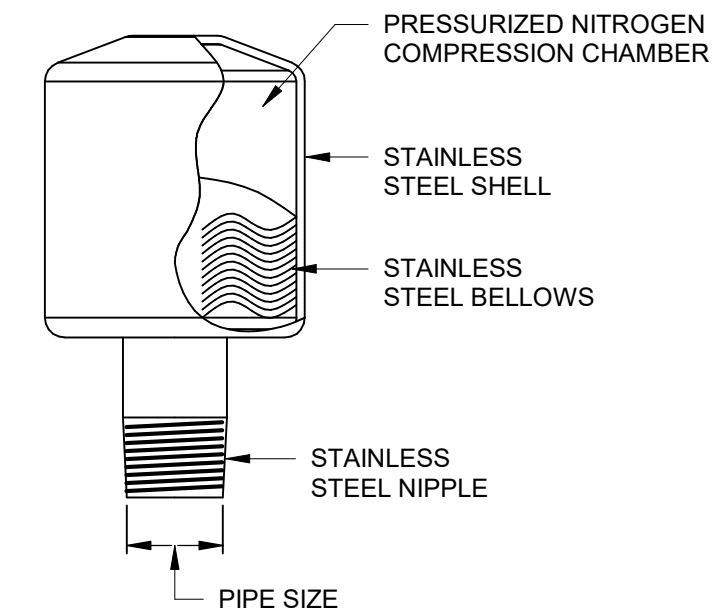


1 EXTERIOR MTD TANKLESS WATER HEATER
P0.1 NOT TO SCALE

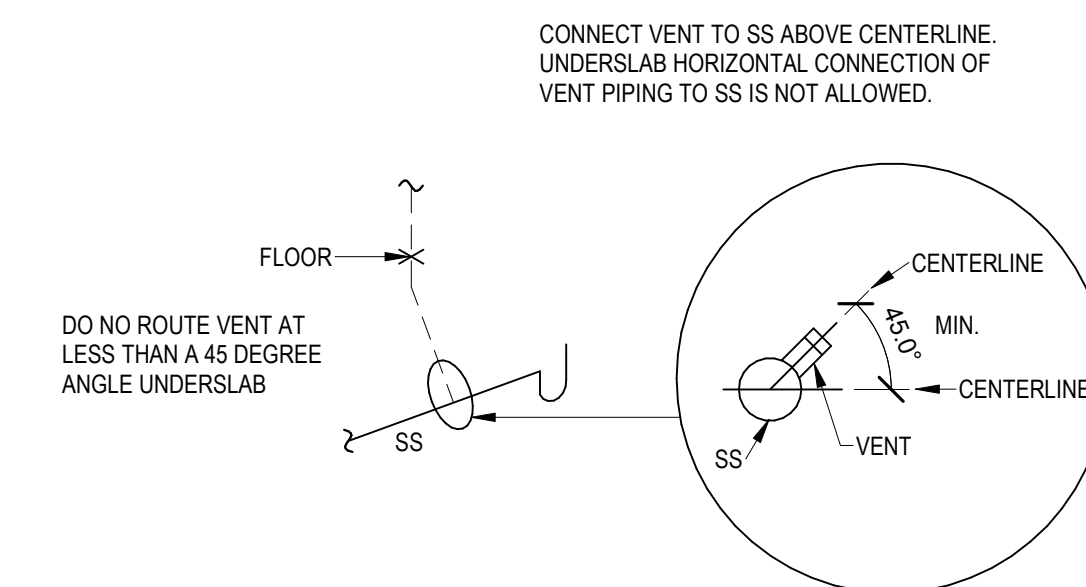


2 GREASE INTERCEPTOR DETAIL
P0.1 NOT TO SCALE

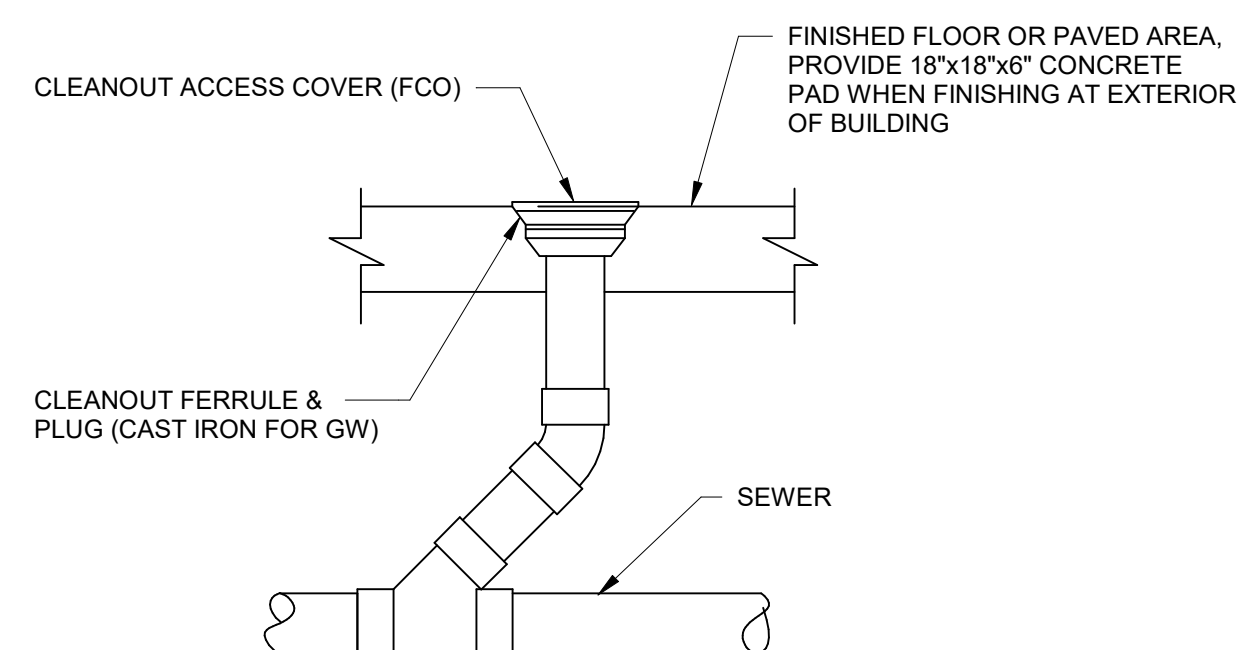
MUST COMPLY WITH PLUMBING AND DRAINAGE INSTITUTE STANDARDS PDI-WH-201 AND ASSE 1010.



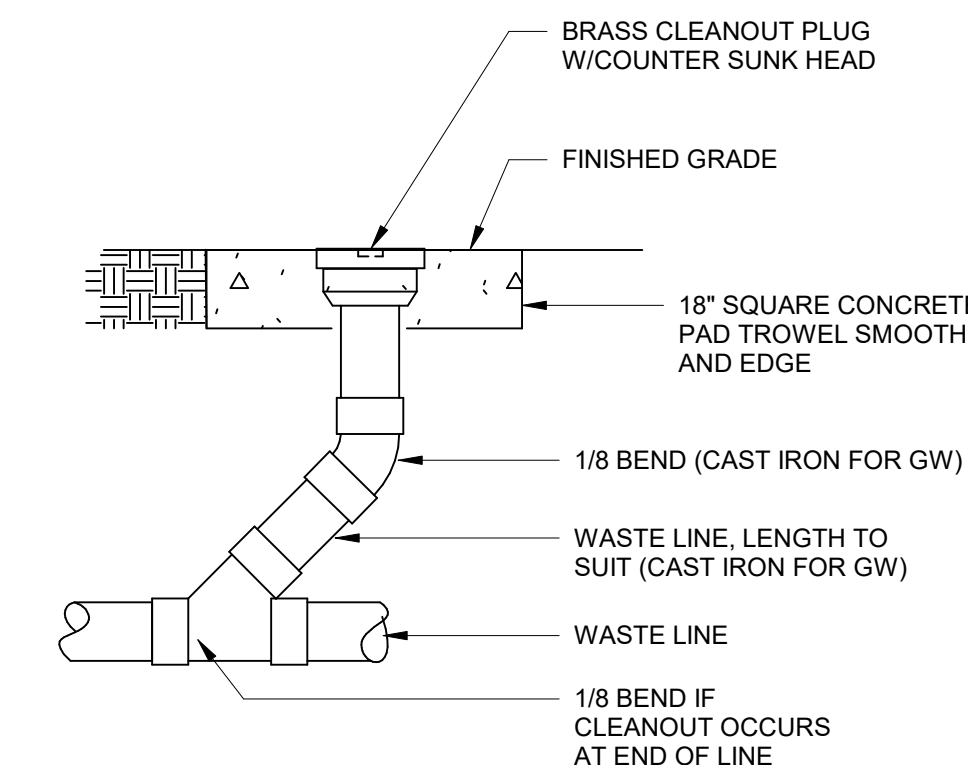
3 HAMMER ARRESTOR DETAIL
P0.1 NOT TO SCALE



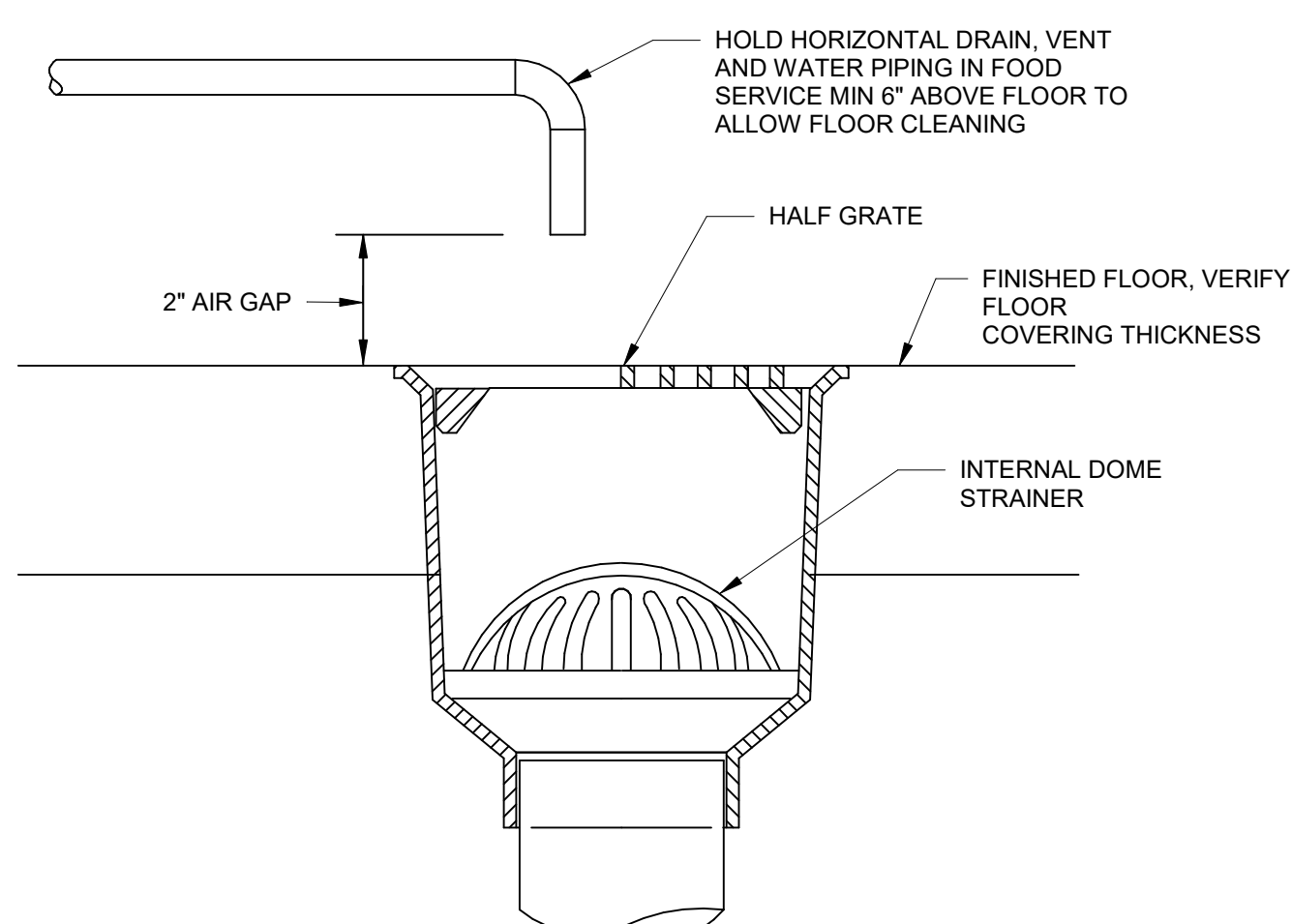
4 VENT INSTALLATION DETAIL
P0.1 NOT TO SCALE



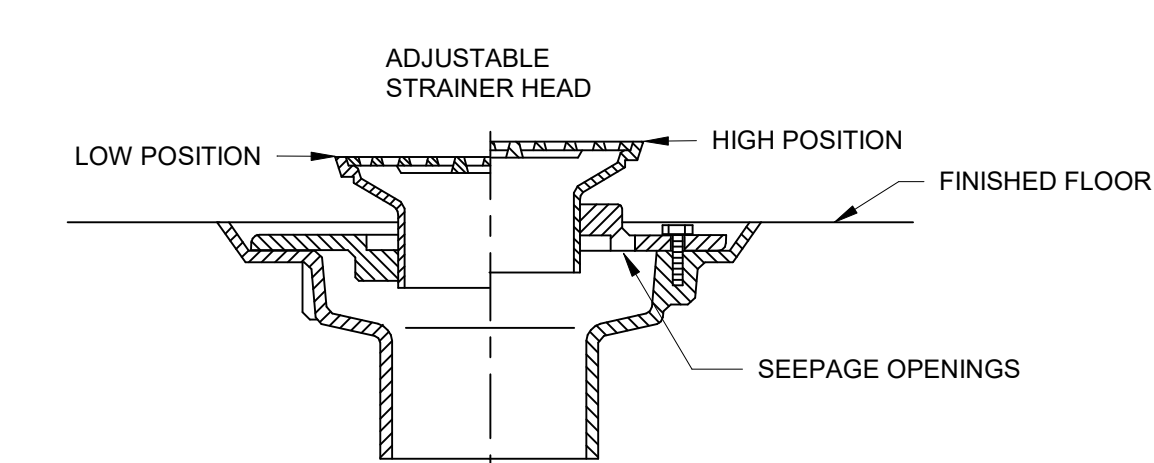
5 CLEANOUT DETAIL
P0.1 NOT TO SCALE



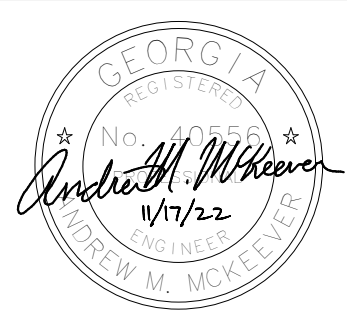
6 CLEANOUT TO GRADE
P0.1 NOT TO SCALE



7 FLOOR SINK
P0.1 NOT TO SCALE

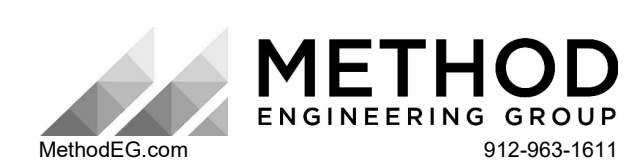


8 FLOOR DRAIN DETAIL
P0.1 NOT TO SCALE



BULL STREET TACO EXPANSION
BULL STREET, SAVANNAH, GA

PLUMBING SPECS & 2102-AILS
Author
11/08/22



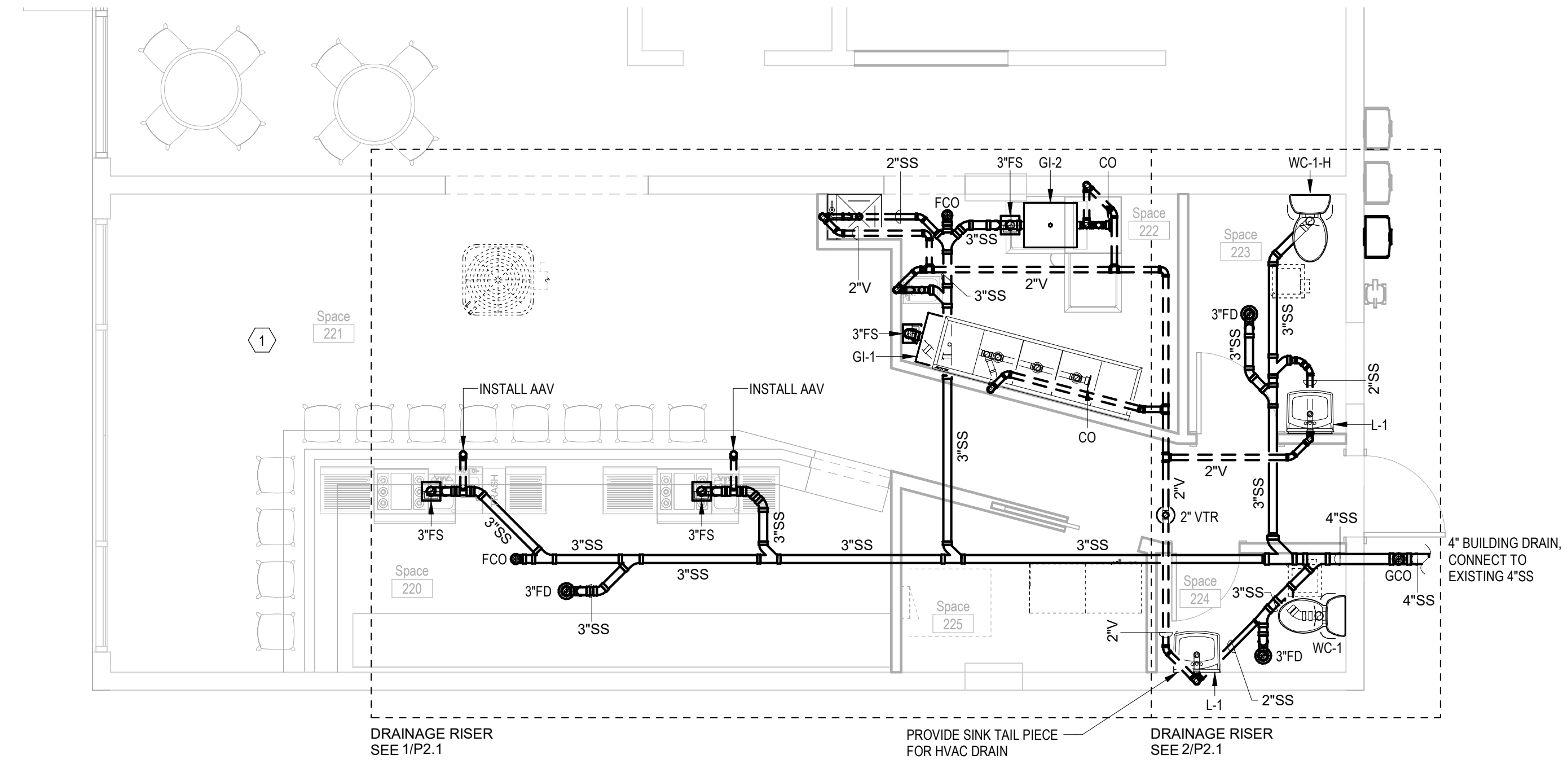
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PLUMBING SHEET NOTES

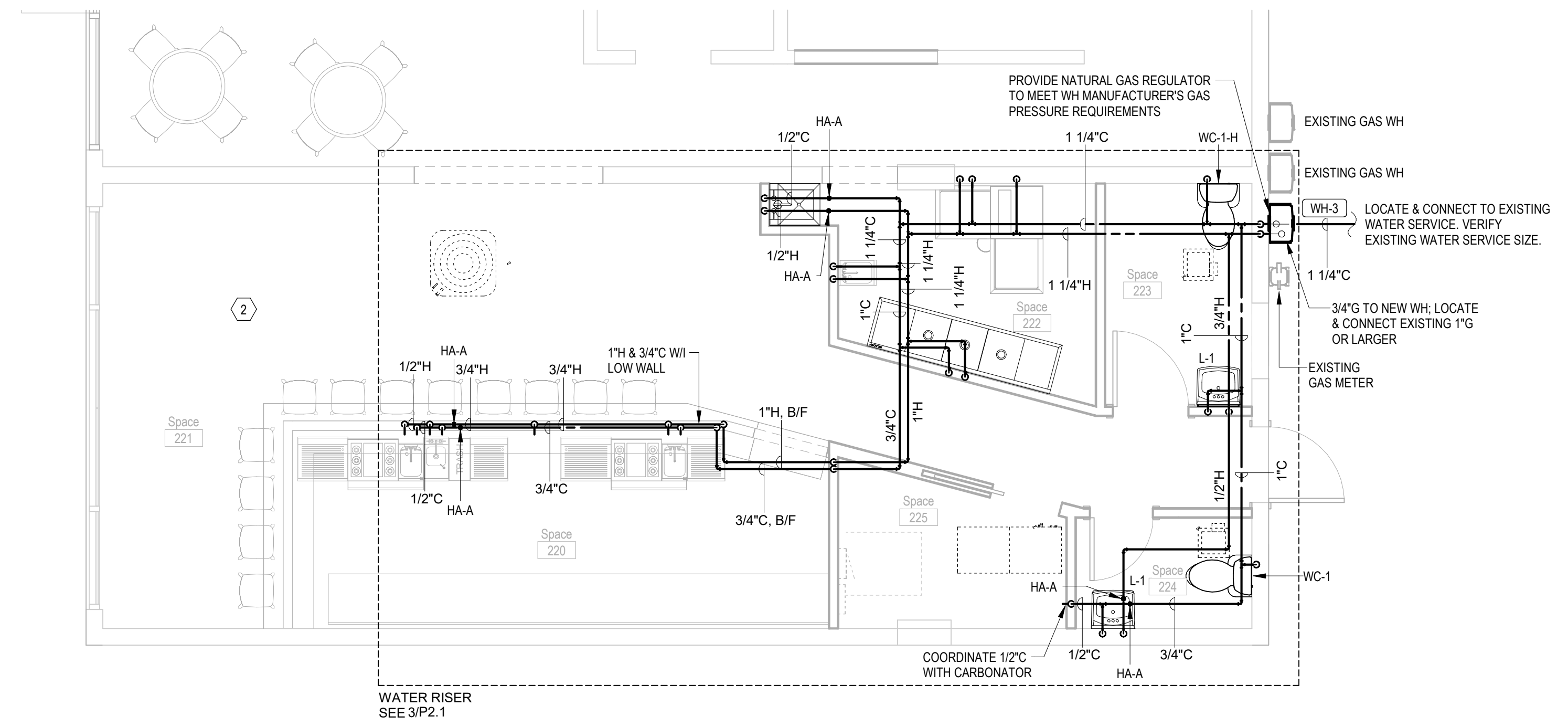
- A THIS PLAN IS DIAGRAMMATIC IN NATURE AND SHALL NOT BE SCALED TO DETERMINE THE LOCATION OR DIMENSION OF THE WORK. CONTRACTOR SHALL VERIFY EXACT LOCATION OF PIPING AND PENETRATIONS.
- B CONTRACTOR SHALL BE RESPONSIBLE TO VERIFY THE LOCATION OF EXISTING BELOW GRADE WASTE PIPING AND REFLECT ANY DEVIATION GREATER THAN 1'-0" FROM THIS PLAN ON THE AS-BUILT DRAWINGS.
- C CUTTING, BORING, SAWCUTTING OR DRILLING THROUGH THE NEW AND EXISTING STRUCTURAL ELEMENTS TO BE DONE ONLY WHEN SO DETAILED IN THE DRAWINGS OR ACCEPTED BY THE APPROVAL THE CITY INSPECTOR.
- D REPAIR WALL SURFACE AFTER INSTALLATION AND INSPECTION OF EACH PLUMBING FIXTURE AND PIPING INSTALLED.
- E ALL WALL-MOUNTED ACCESS PANELS SHALL BE LOCKABLE TYPE.
- F ABOVE-GRADE WASTE PIPE SHALL BE RUN AT 2% GRADE. BELOW-GRADE WASTE PIPE SHALL BE RUN AT 1% GRADE.
- G ALL CONDENSATE DRAIN PIPE SHALL BE RUN AT 1% GRADE.
- H MAINTAIN MINIMUM 10'-0" SEPARATION BETWEEN FLUE AND PLUMBING VENT OUTLETS AND ANY FRESH AIR INTAKE. COORDINATE WITH HVAC CONTRACTOR.
- I FLOORS SHALL SLOPE TO DRAINS AT 1% MINIMUM SLOPE. SEE ARCHITECTURAL PLANS FOR MORE INFORMATION.
- J PROVIDE ALL FLOOR DRAINS, FLOOR SINKS, TRENCH DRAINS, ETC. WITH TRAP GUARD DEVICES (ASSE 1072 COMPLIANT).
- K PROVIDE WALL CLEAN OUTS IN ALL VENT RISERS ON BRANCHES LONGER THAN 5'-0" AND ON BRANCHES SERVING SINKS OR URINALS.

KEYNOTES

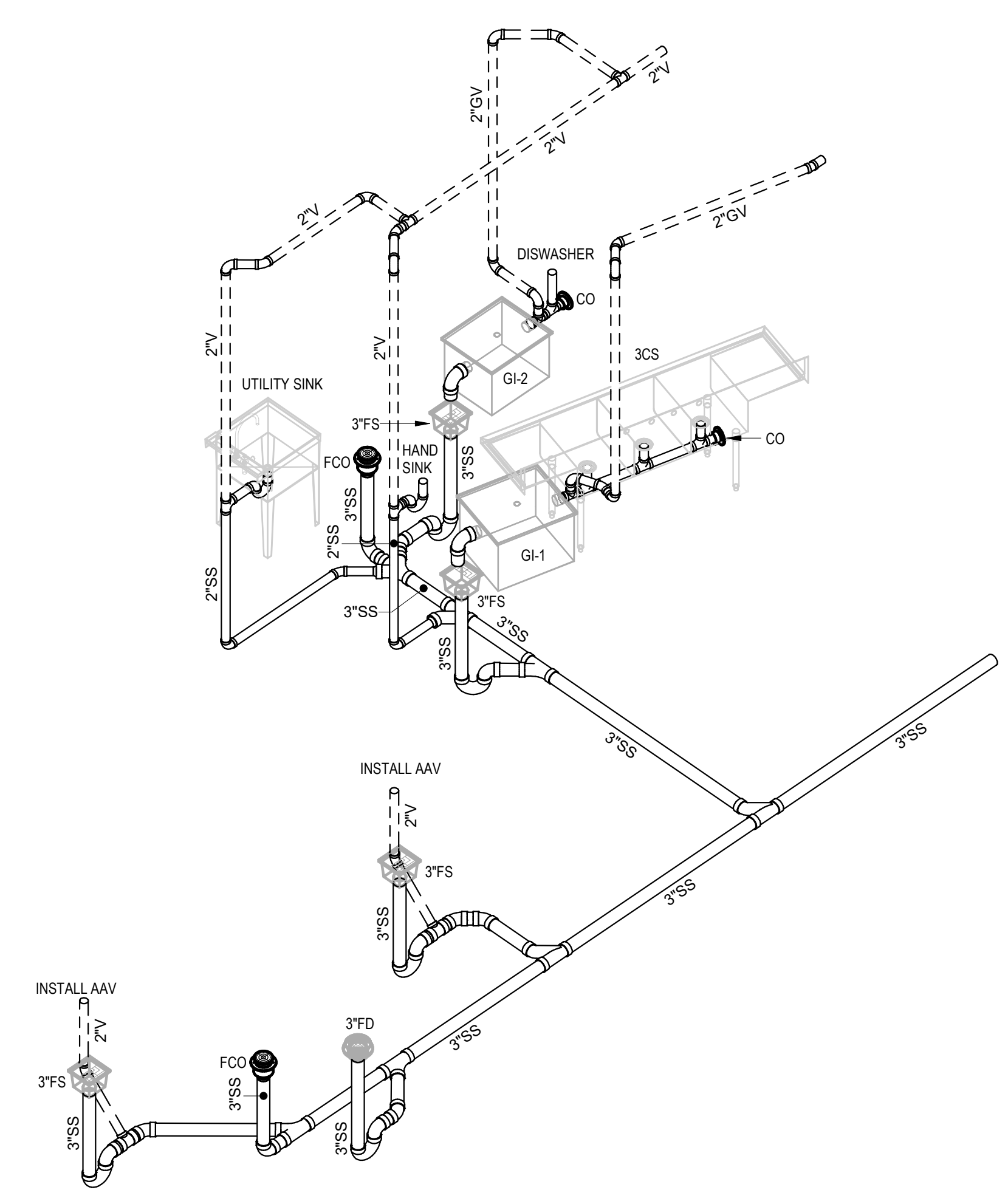
- 1 DEMOLISH EXISTING FIXTURES. CAP SS BELOW FLOOR & VENT A/C.
- 2 DEMOLISH EXISTING FIXTURES, WATER PIPING & ELECTRIC TANKLESS WATER HEATER.



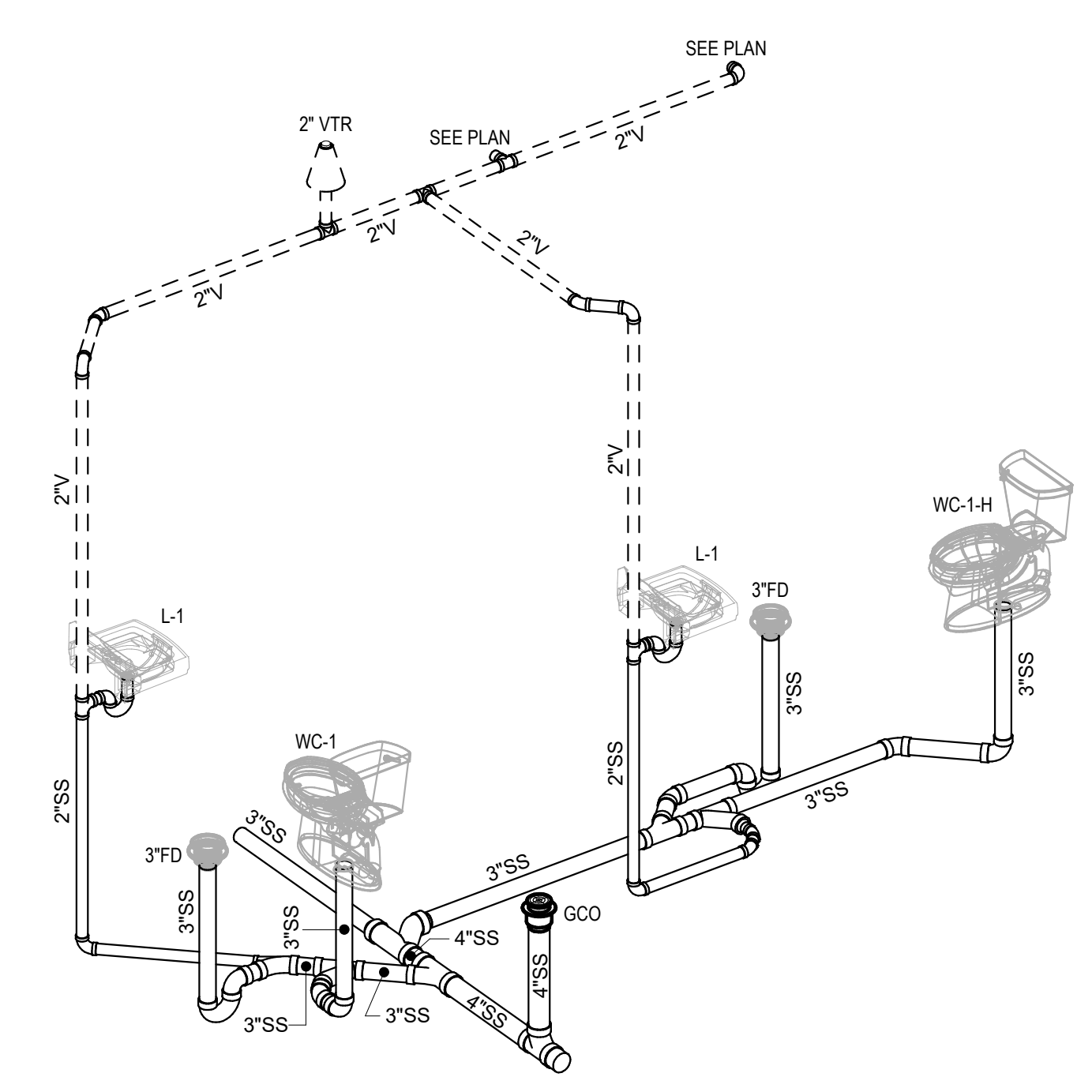
1 WASTE & VENT PLAN
P1.1 1/4" = 1'-0"



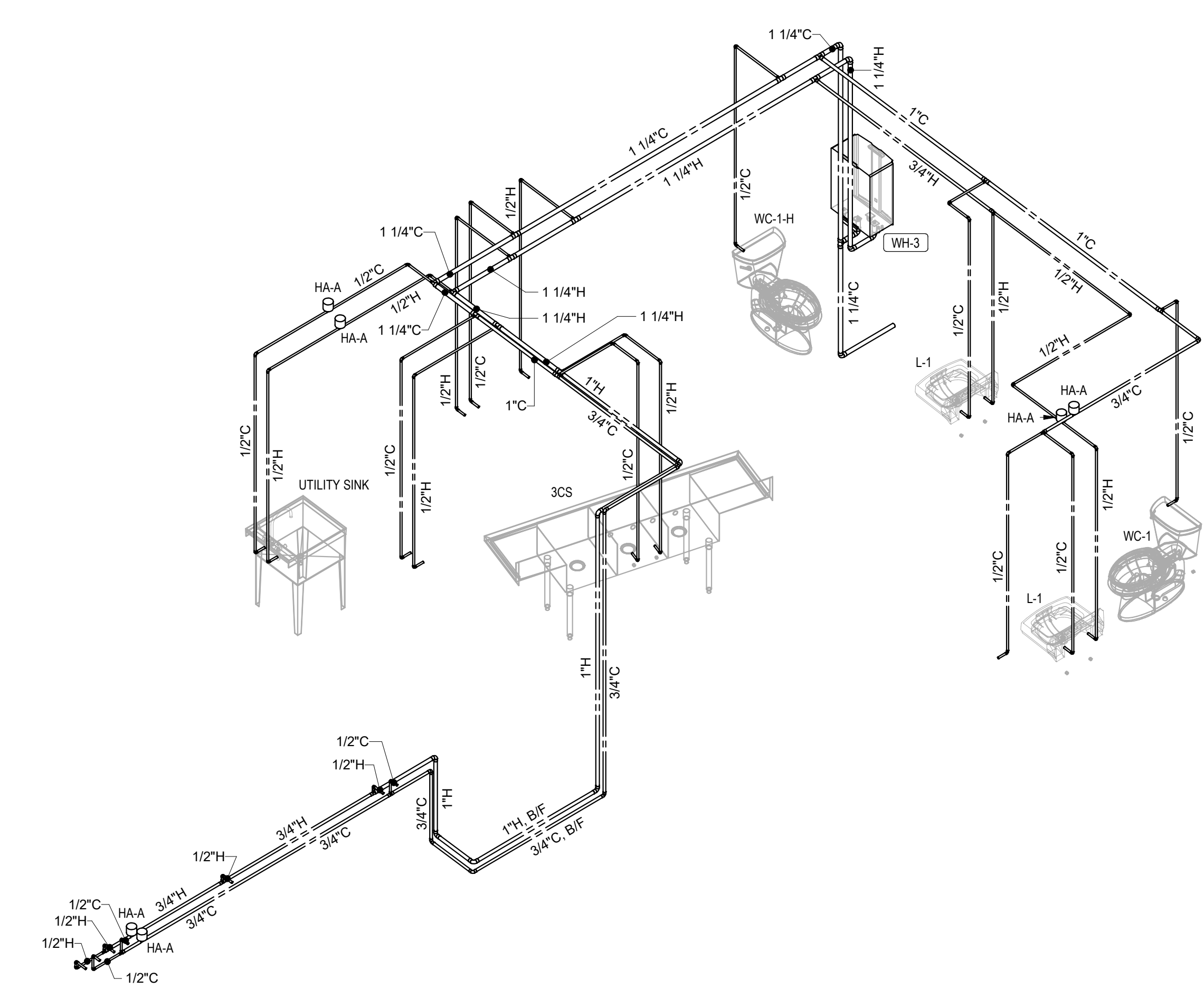
2 HOT & COLD WATER PLAN
P1.1 1/4" = 1'-0"



1 DRAINAGE & VENT RISER DIAGRAM #1
P21

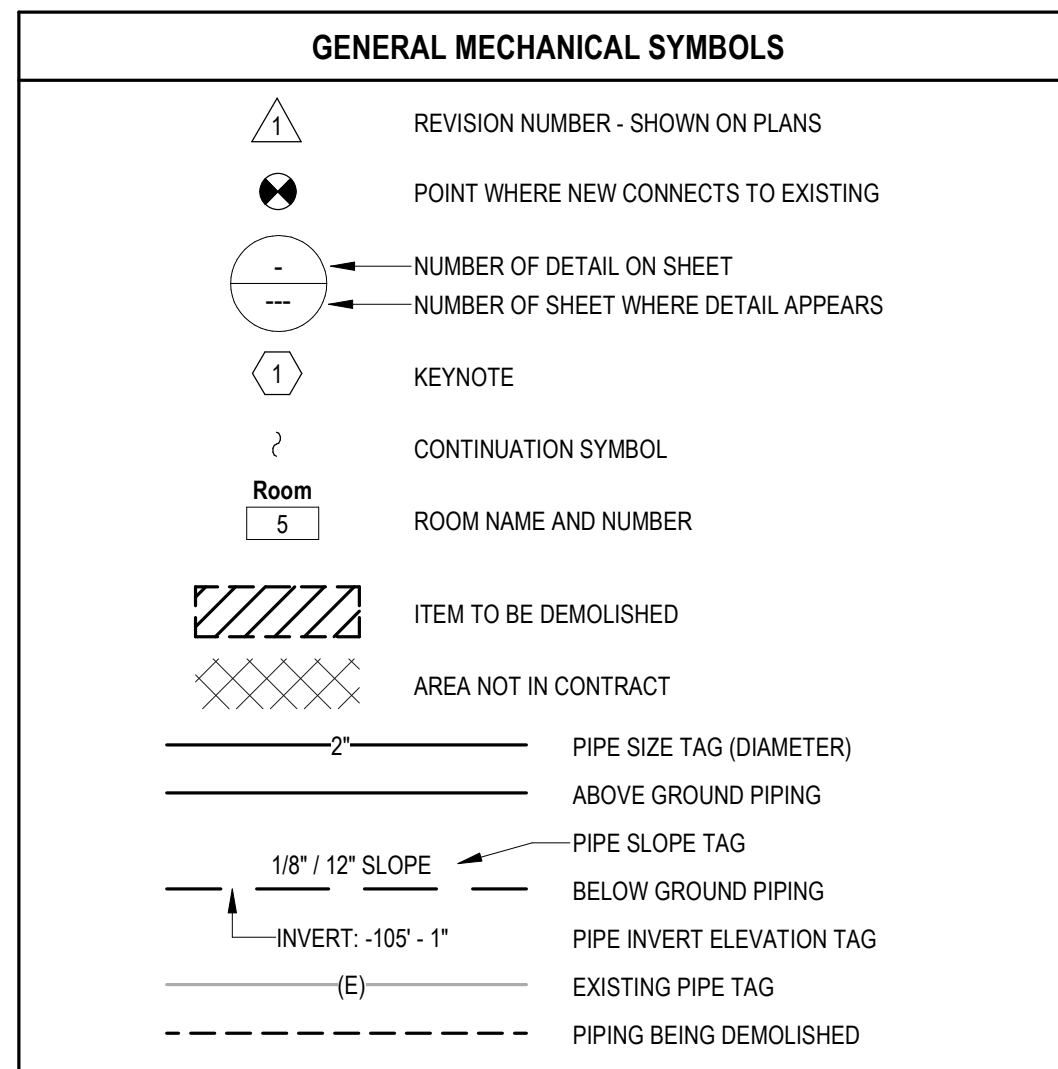


2 DRAINAGE & VENT RISER DIAGRAM #2
P21



3 HOT & COLD WATER RISER DIAGRAM
P21

BULL STREET TACO EXPANSION
BULL STREET, SAVANNAH, GA

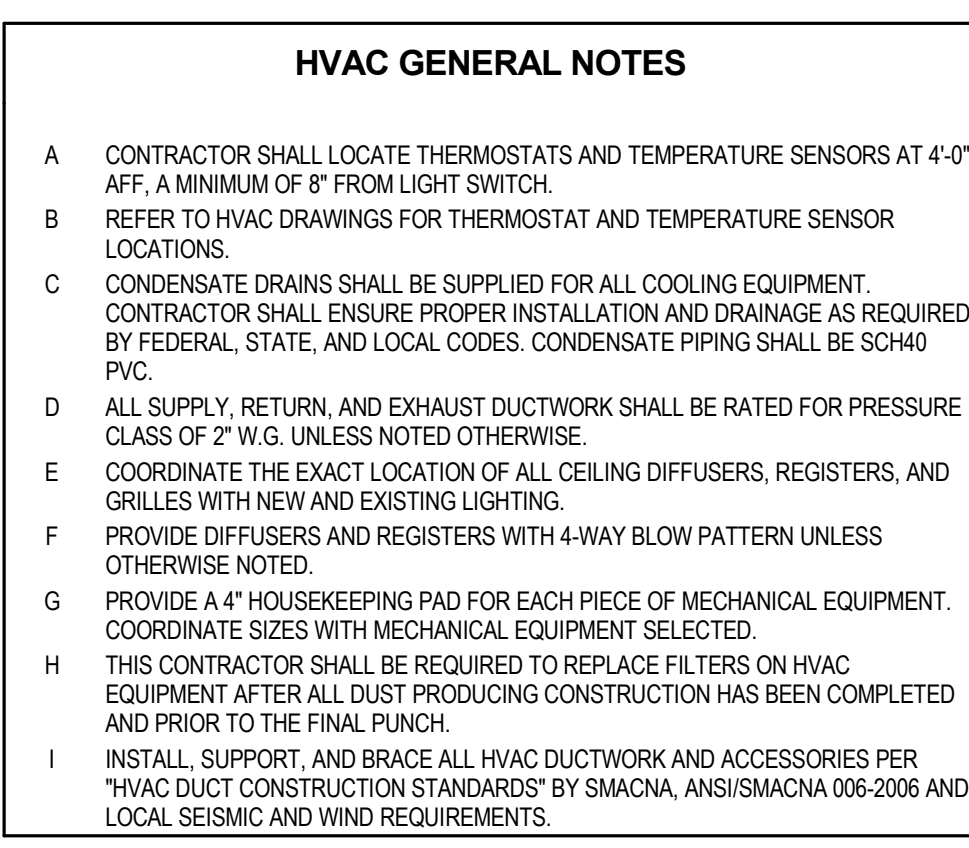
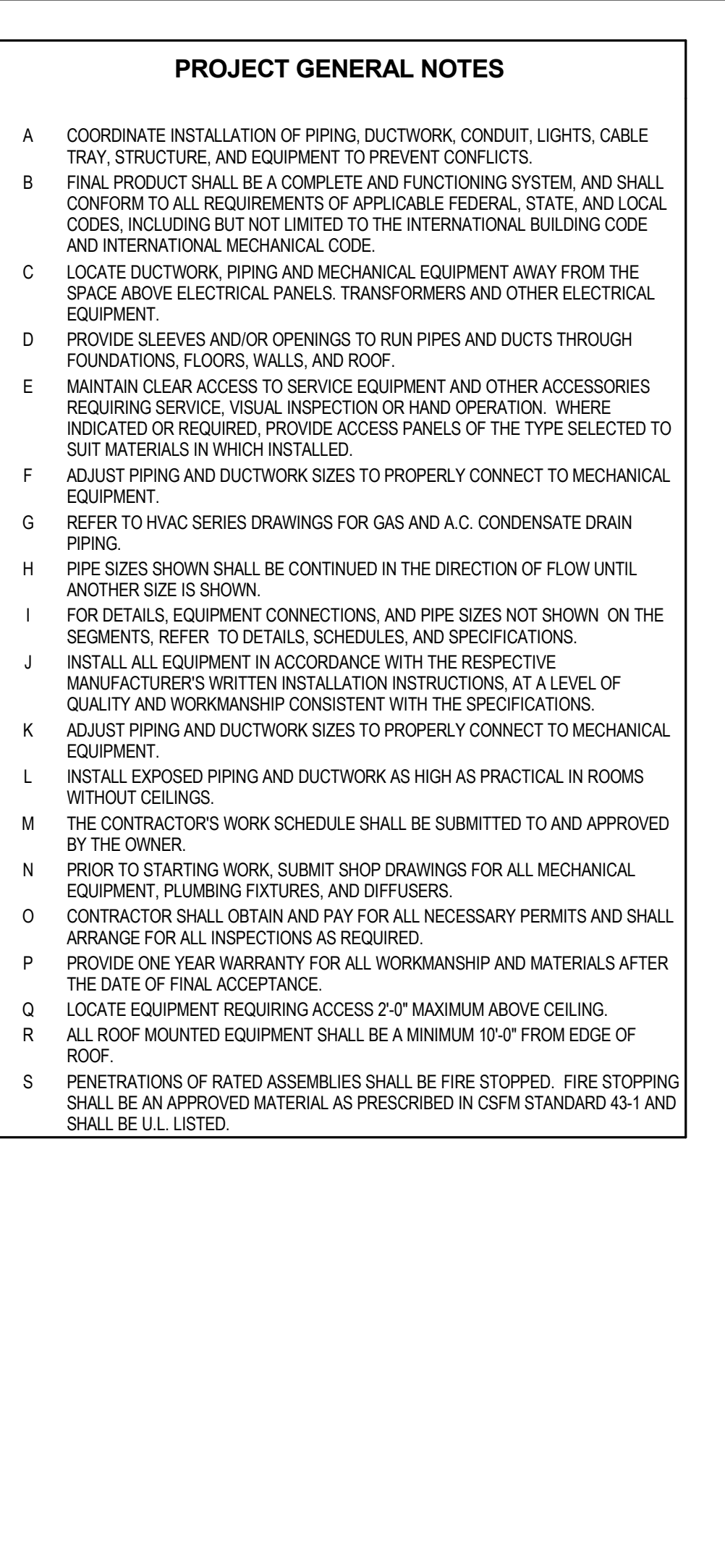
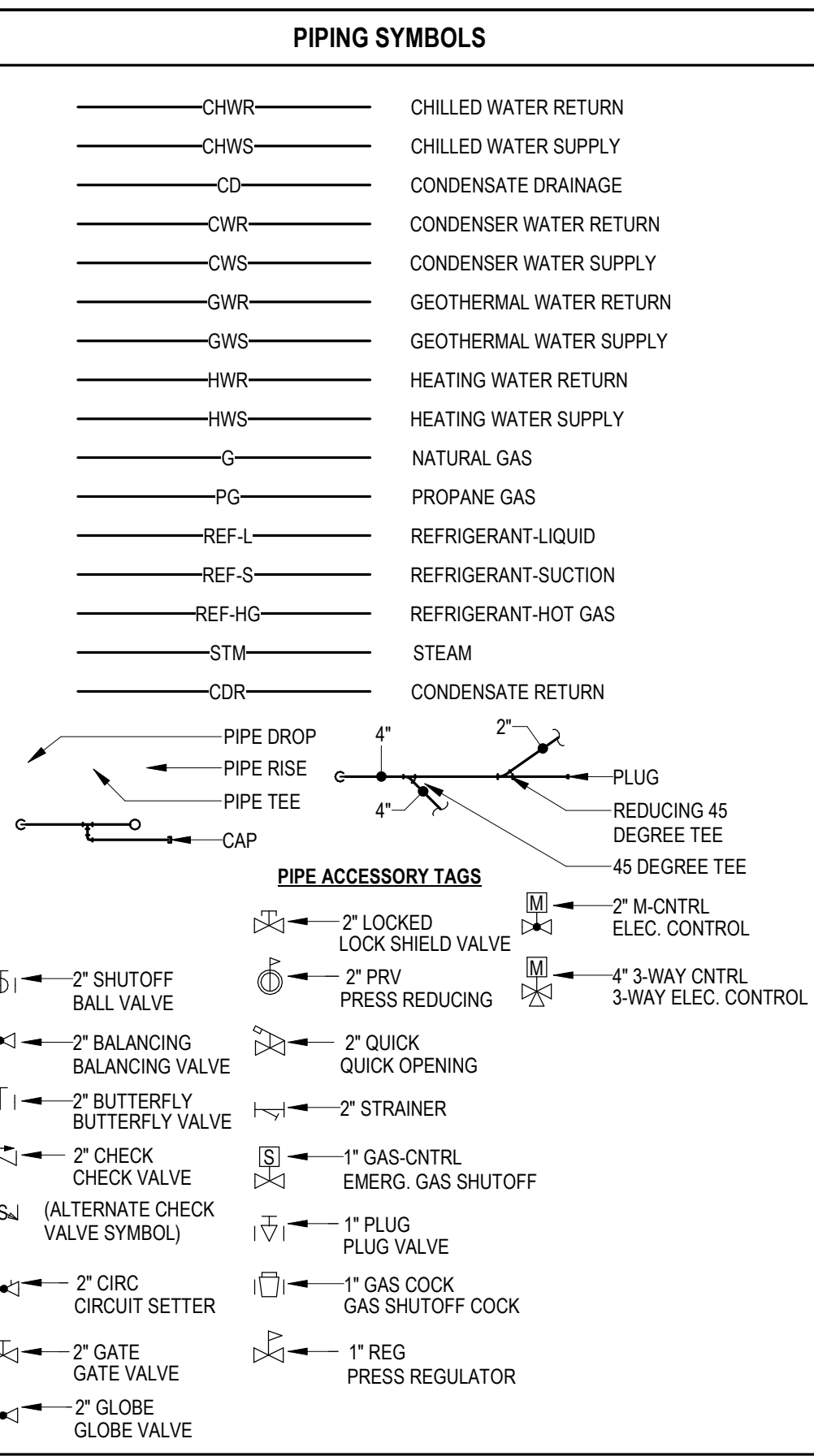
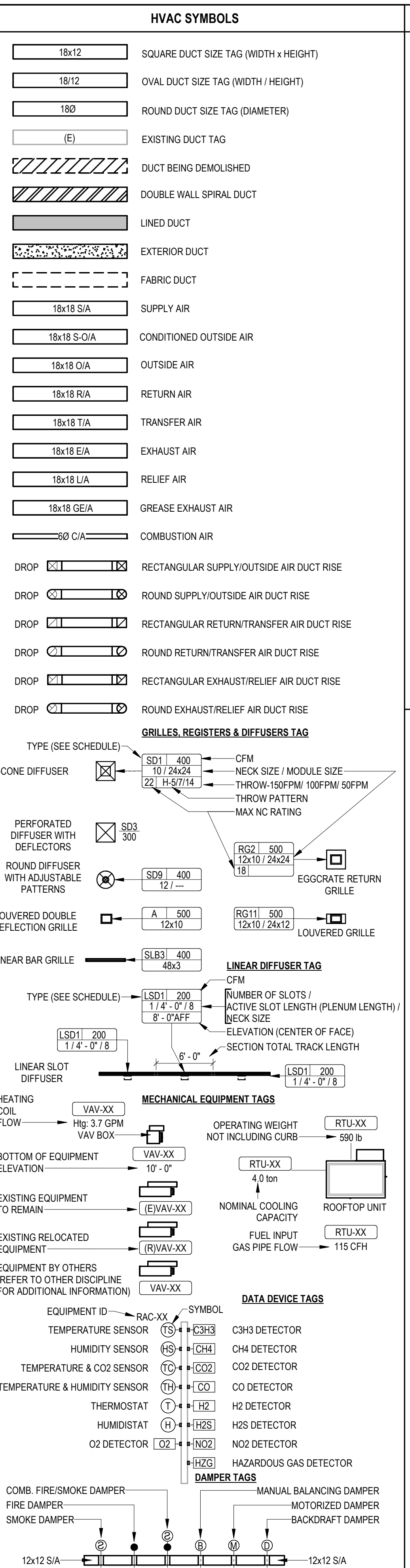


ABBREVIATIONS

Ø	ROUND	LV	LOUVER
ABV	ABOVE	LWT	LEAVING WATER TEMPERATURE
AC	AIR CONDITIONING	M/A	MIXED AIR
AD	AREA DRAIN	MAX	MAXIMUM
ADD	ADDENDUM	MBH	ONE THOUSAND BTU PER HOUR
AFF	ABOVE FINISHED FLOOR	MCF	ONE THOUSAND CUBIC FEET
AFUE	ANNUAL FUEL UTILIZATION EFFICIENCY	MD	MOTORIZED DAMPER
ALT	ALTERNATE	MECH	MECHANICAL
AP	ACCESS PANEL	MFR	MANUFACTURER
ARCH	ARCHITECT/ARCHITECTURAL	MIN	MINIMUM
BFF	BELOW FINISHED FLOOR	MISC	MISCELLANEOUS
BLW	BELOW	MTR	MOTOR
BTU	BRITISH THERMAL UNITS	MU/A	MAKE-UP/AIR
BTUH	BRITISH THERMAL UNITS PER HOUR	NC	NOISE CRITERIA
CAP	CAPACITY	NC	NORMALLY CLOSED
CB	CATCH BASIN	NIC	NOT IN CONTRACT
CFM	CUBIC FEET PER MINUTE	NO	NUMBER
CLG	CEILING	NO	NORMALLY OPEN
CO	CLEAN OUT	NTS	NOT TO SCALE
OW	COLD WATER	O	OXYGEN
D	DEGREE	O/A	OUTSIDE AIR
DB	DRY BULB	ORD	OVERFLOW ROOF DRAIN
DIA	DIAMETER	PD	PRESSURE DROP
DN	DOWN	PIV	POST INDICATOR VALVE
DW	DISTILLED WATER	PLBG	PLUMBING
EA	EACH	PRESS	PRESSURE
EAT	ENTERING AIR TEMPERATURE	PRV	PRESSURE REDUCING VALVE
ELEC	ELECTRICAL	PSI	POUNDS PER SQUARE INCH
EQUIP	EQUIPMENT	PSIG	POUNDS PER SQUARE INCH GAUGE
EWC	ELECTRIC WATER COOLER	PWR	PUMP
EWT	ENTERING WATER TEMPERATURE	R	DUCT RISER
E/A	EXHAUST AIR	RA	RETURN AIR
EXIST	EXISTING	RCP	RADIANT CEILING PANEL
F	DEGREES FAHRENHEIT	RD	ROOF DRAIN
FCO	FLOOR CLEAN OUT	REC	RECESSED
FD	FLOOR DRAIN	RED	REDUCER
FDC	FIRE DEPARTMENT CONNECTION	RH	RELATIVE HUMIDITY
FL	FLOOR	RLA	RELIEF AIR
FO	FUEL OIL	RM	ROOM
FOV	FUEL OIL VENT	RPM	REVOLUTIONS PER MINUTE
FOR	FUEL OIL RETURN	RW	RAIN WATER
FOS	FUEL OIL SUPPLY	SF	SQUARE FOOT
FRM	FEET PER MINUTE	S/A	SUPPLY AIR
FS	FLOOR SINK	SAN	SANITARY
FT	FOOT/FEET	SF	SQUARE FOOT
FTR	FIN TUBE RADIATION	SD	SMOKE DAMPER
GAL	GALLON	SM	SURFACE MOUNT
GF	GAS-FIRED	SP	STANDPIPE
GC	GENERAL CONTRACTOR	SP	STATIC PRESSURE
GW	GALLONS PER MINUTE	STM	STEAM
GW	GREASE WASTE	ST	THERMOSTAT
HB	HOSE BIB	TD	TEMPERATURE DROP
HP	HORSE POWER	TRD	TRENCH DRAIN
HTG	HEATING	TEMP	TEMPERATURE
HTR	HEATER	TYP	TYPICAL
HW	HOT WATER	UG	UNDERGROUND
HYD	HYDRANT	VAC	VACUUM
ID	INDIRECT	V	VENT
IN	INCH	VAV	VARIABLE AIR VOLUME
INV	INVERT	VENT	VENTILATION
LB	POUND	VTR	VENT THROUGH ROOF
LBHR	POUNDS PER HOUR	W	WASTE
LAT	LEAVING AIR TEMPERATURE	WB	WET BULB
LP	LOW PRESSURE	WCO	WALL CLEAN OUT
LPG	LIQUEFIED PETROLEUM GAS	WH	WALL HYDRANT

EQUIPMENT ABBREVIATIONS

AC	AIR CONDITIONOR	FCU	FAN COIL UNIT
AH	AIR HANDLER	FF	FLY FAN
AHU	AIR HANDLING UNIT	GRV	GRAVITY ROOF VENTILATOR
AS	AIR SEPARATOR	HP	HEAT PUMP
B	BOILER	HWP	HEATING WATER PUMP
CH	CHILLER	HRC	HEAT RECOVERY CONTROLLER
CT	COOLING TOWER	KEF	KITCHEN EXHAUST FAN
CUH	CABINET UNIT HEATER	MAU	MAKEUP AIR UNIT
CHWP	CHILLED WATER PUMP	RAC	ROOFTOP AIR CONDITIONER
DAH	DUCTLESS AIR HANDLER	RHP	ROOFTOP HEAT PUMP
DHP	DUCTLESS HEAT PUMP	SF	SUPPLY FAN
DOAS	DEDICATED OUTDOOR AIR SYSTEM	TF	TRANSFER FAN
EF	EXHAUST FAN	UH	UNIT HEATER
EH	ELECTRIC HEATER	VAH	VRF AIR HANDLER
ERV	ENERGY RECOVERY VENTILATOR	VHP	VRF HEAT PUMP
ET	EXPANSION TANK	VRF	VARIABLE REFRIGERANT FLOW



HVAC SHEET INDEX

M0.0	HVAC TITLE SHEET
M0.1	HVAC SPECIFICATIONS
M1.1	HVAC PLAN
M2.1	HVAC DETAILS

MECHANICAL SPECIFICATIONS

GENERAL PROVISIONS

IMPOSED REGULATIONS: APPLICABLE PROVISIONS OF THE STATE AND LOCAL CODES AND OF THE FOLLOWING CODES AND STANDARDS, IN ADDITION TO THOSE LISTED ELSEWHERE IN THE SPECIFICATIONS, ARE HEREBY IMPOSED ON A GENERAL BASIS FOR MECHANICAL WORK:

INTERNATIONAL MECHANICAL CODE - 2018 EDITION
INTERNATIONAL ENERGY CONSERVATION CODE - 2015 EDITION
INTERNATIONAL FUEL GAS CODE - 2018 EDITION

SCOPE OF WORK: PROVIDE ALL LABOR, MATERIALS, EQUIPMENT AND SUPERVISION TO CONSTRUCT COMPLETE AND OPERABLE MECHANICAL SYSTEMS AS INDICATED ON THE DRAWINGS AND SPECIFIED HEREIN. ALL MATERIALS AND EQUIPMENT USED SHALL BE NEW, UNDAMAGED AND FREE FROM ANY DEFECTS.

PRODUCT WARRANTIES: PROVIDE MANUFACTURER'S STANDARD PRINTED COMMITMENT IN REFERENCE TO A SPECIFIC PRODUCT AND NORMAL APPLICATION, STATING THAT CERTAIN ACTS OF RESTITUTION WILL BE PERFORMED FOR THE PURCHASER OR OWNER BY THE MANUFACTURER, WHEN AND IF THE PRODUCT FAILS WITHIN CERTAIN OPERATIONAL CONDITIONS AND TIME LIMITS. WHERE THE WARRANTY REQUIREMENTS OF A SPECIFIC SPECIFICATION SECTION EXCEEDS THE MANUFACTURER'S STANDARD WARRANTY, THE MORE STRINGENT REQUIREMENTS WILL APPLY AND MODIFIED MANUFACTURER'S WARRANTY SHALL BE PROVIDED. IN NO CASE SHALL THE MANUFACTURER'S WARRANTY BE LESS THAN ONE (1) YEAR.

ELECTRICAL WORK: COORDINATE THE MECHANICAL WORK WITH ELECTRICAL WORK, AND PROPERLY INTERFACE WITH THE ELECTRICAL SERVICE. IN GENERAL, AND EXCEPT AS OTHERWISE INDICATED, INSTALL MECHANICAL EQUIPMENT READY FOR ELECTRICAL CONNECTION. REFER TO ELECTRICAL SECTIONS OF THE SPECIFICATIONS FOR ELECTRICAL CONNECTION OF MECHANICAL EQUIPMENT.

THE PLANS SHOW THE GENERAL ARRANGEMENT AND LOCATIONS OF MECHANICAL WORK. THE CONTRACTOR SHALL COORDINATE THE MECHANICAL INSTALLATION WITH THE STRUCTURE AND ALL OTHER TRADES. PERFORM ALL WORK IN ACCORDANCE WITH CURRENT STATE AND LOCAL CODES. SUBMIT PDF FILES OF MANUFACTURER'S DATA PRIOR TO EQUIPMENT PURCHASES.

COORDINATE THE ACTUAL LOCATION OF ALL MECHANICAL WORK VISIBLE IN FINISHED SPACES WITH THE ARCHITECT. THIS INCLUDES AIR DISTRIBUTION DEVICES, EXPOSED DUCTWORK, THERMOSTATS, HUMIDISTATS, SWITCHES, SENSORS, ETC. ALL THERMOSTATS AND WALL-MOUNTED SENSORS SHALL BE INSTALLED A MAXIMUM OF 48" AFF.

THE CONTRACTOR SHALL FURNISH DETAILED SHOP DRAWINGS OF ALL FIRESTOPPING DETAILS TO BE USED FOR BOTH PIPING AND DUCTWORK. ALL FIRESTOPPING DETAILS SHALL BE U.L. LISTED AND SUBJECT TO APPROVAL BY THE AUTHORITY HAVING JURISDICTION.

WIND ANCHORAGE REQUIREMENTS SHALL BE SUBMITTED FOR ALL CURB MOUNTED EQUIPMENT AND ROOF MOUNTED EQUIPMENT. FASTENERS SHALL BE SELECTED AND DETAILED ON A PROJECT-SPECIFIC BASIS BY A REGISTERED DESIGN PROFESSIONAL. PROVIDE CALCULATIONS FOR UNIT CONNECTIONS TO SUPPORT/CURB, AND FOR SUPPORT/CURB TO STRUCTURE. THE DESIGN WIND SPEED IS 148 MPH.

PROVIDE A TEST AND BALANCE REPORT BY A NEBB CERTIFIED TAB FIRM.

SUBMIT O&M MANUAL AND EQUIPMENT WARRANTIES UPON COMPLETION OF WORK.

MECHANICAL IDENTIFICATION MATERIALS:

ENGRAVED PLASTIC-LAMINATE LABELS: PROVIDE ENGRAVING STOCK MELAMINE PLASTIC LABELS FOR PERMANENT MOUNTING ON MECHANICAL EQUIPMENT. INDICATE UNIT NAME, NUMBER, AND ELECTRICAL PANEL SERVING THE EQUIPMENT.

PIPING:

PROVIDE PIPING, FITTINGS, HANGERS, AND SUPPORTS AS REQUIRED, AS INDICATED ON DESIGN DOCUMENTS, AND AS FOLLOWS:

REFRIGERANT PIPING: REFRIGERANT PIPING SHALL BE SEAMLESS COPPER SUITABLE FOR A WORKING PRESSURE OF 300 PSIG. FITTINGS SHALL BE WROUGHT COPPER OR BRASS SUITABLE FOR USE WITH HIGH TEMPERATURE SOLDER AND DESIGNED FOR 300 PSIG WORKING PRESSURE. REFRIGERANT PIPING INSULATION SHALL BE INSTALLED AS RECOMMENDED BY THE MANUFACTURER, WITH MINIMUM THICKNESSES AS REQUIRED BY IECC TABLE 403.2.10. PIPE INSULATION EXPOSED OUTDOORS SHALL BE COVERED WITH ALUMINUM METAL JACKETS. SUSPEND REFRIGERANT PIPING ON COPPER CLEVIS HANGERS WITH INSULATION SHIELDS. TRAPEZE-MOUNTED PIPING SHALL USE METAL STRUT CLAMPS THAT PROVIDE A CONTINUOUS INSULATION BARRIER AND/OR CUSH-A-CLAMP OR EQUAL. PLASTIC STRUT CLAMPS ARE NOT ACCEPTABLE.

HVAC DRAIN PIPING: HVAC DRAIN LINES SHALL BE SCHEDULE 40 PVC WITH SOCKET TYPE FITTINGS AND SOLVENT CEMENT. INDOOR HVAC DRAIN LINES INDOORS SHALL HAVE 1" FIBERGLASS PIPE INSULATION WITH VAPOR BARRIER. SUSPEND INDOOR HVAC DRAIN PIPING ON CLEVIS HANGERS WITH INSULATION SHIELDS. SUPPORT OUTDOOR HVAC DRAIN PIPING ON NON-PENETRATING PIPE PEDESTALS. LOCATE EQUIPMENT AND ASSOCIATED DUCTWORK AND PIPING TO PROVIDE MANUFACTURER'S RECOMMENDED SERVICE CLEARANCES. PVC HVAC DRAIN LINES OUTDOORS SHALL RECEIVE 2 COATS OF WHITE LATEX PAINT TO PREVENT UV DEGRADATION.

DUCTWORK AND ACCESSORIES:

DUCTWORK SHOWN ON THE PLANS IS SIZED AND ROUTED BASED ON INFORMATION AVAILABLE DURING THE DESIGN PHASE FOR CEILING HEIGHTS, STRUCTURAL MEMBERS, ETC. ALL DUCT SIZES AND ROUTINGS MUST BE CONFIRMED IN THE FIELD BY THE CONTRACTOR PRIOR TO FABRICATION AND INSTALLATION. WHERE CONFLICTS ARISE, REFER TO THE ENGINEER.

SUPPLY AIR DUCTS AND RETURN AIR DUCTS SHALL BE G90 GALVANIZED STEEL AND INSULATED WITH 2" THICK R-6.7 FIBERGLASS DUCT WRAP WITH VAPOR BARRIER. WHERE INDICATED ON PLANS, DUCTWORK SHALL ALSO BE LINED WITH 1" FIBERGLASS DUCT LINER FOR NOISE REDUCTION, BASIS OF DESIGN *JOHNS MANVILLE LIMAACOUSTIC*. EXTERIOR DUCTWORK SHALL BE INSULATED WITH 1.5" THICK POLYISOCYANURATE FOAM BOARD WITH MINIMUM R-8.0 VALUE, BASIS OF DESIGN *JOHNS MANVILLE X-SPECT ISOFOAM AFF BOARD*. ALL EXTERIOR DUCTWORK SHALL BE JACKETED WITH .016" ALUMINUM FOR WEATHERPROOFING, OR ALTERNATIVELY WITH *ALUMAGUARD ALL WEATHER FLEXIBLE JACKET*. PROVIDE FLEXIBLE CONNECTIONS AT ALL UNIT SUPPLY AIR AND RETURN AIR TRUNK DUCTS. ALL DUCTS SHALL BE FABRICATED AND INSTALLED PER SMACNA STANDARDS FOR 2" STATIC PRESSURE RATING.

HVAC DUCT SMOKE DETECTORS SHALL BE FURNISHED BY ELECTRICAL CONTRACTOR AND INSTALLED BY MECHANICAL CONTRACTOR. ALL DUCT SMOKE DETECTORS MUST BE COMPATIBLE WITH THE FIRE ALARM SYSTEM AND MUST BE CONNECTED TO THE FIRE ALARM SYSTEM FOR NOTIFICATION. ALL FIRE ALARM WIRING AND ASSOCIATED DEVICES SHALL BE FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR. EACH SMOKE DETECTOR SHALL BE WIRED BY MECHANICAL CONTRACTOR INTO THE RESPECTIVE FAN CONTROL CIRCUIT TO AUTOMATICALLY SHUT DOWN THE FAN UPON SENSING PRODUCTS OF COMBUSTION.

AIR DISTRIBUTION DEVICES:

AIR DISTRIBUTION DEVICES SHALL BE ALUMINUM BY *TITUS, KRUEGER, METALAIRE* OR *PRICE* AND SHALL BE SUBMITTED FOR APPROVAL BEFORE ORDERING. ARCHITECT SHALL APPROVE COLOR AND FINISH OF ALL AIR DISTRIBUTION DEVICES. ALL DEVICES SHALL BE SELECTED FOR NC-20 MAXIMUM NOISE CRITERIA.

AUTOMATIC BALANCING DAMPERS (ABD):

AUTOMATIC BALANCING DAMPERS SHALL BE SUPPLIED FOR LOW AIRFLOW DIFFUSERS WHERE INDICATED ON PLANS. DEVICES SHALL BE CAPABLE OF ADJUSTING AIRFLOW WITH ADJUSTABLE COLLAR IN PLENUM BOX BEHIND DIFFUSER. PROVIDE ABD FROM *GREENHECK, RUSKIN*, OR EQUAL SUBJECT TO APPROVAL.

FANS:

EXHAUST FANS SHALL BE BY *GREENHECK, COOK* OR *PEW*. PROVIDE DISCONNECT SWITCH, ROOF CURB, AND BACKDRAFT DAMPER. ALL CURB MOUNTED EQUIPMENT SHALL BE INSTALLED TO MEET SPECIFIED WIND RATING.

AIR TREATMENT SYSTEMS:

ALL AIR HANDLERS AND ROOFTOP UNITS SHALL BE EQUIPPED WITH BIPOLAR IONIZATION AIR TREATMENT DEVICES INSTALLED AT THE SUPPLY FAN INLET. AIR TREATMENT DEVICES SHALL BE BY *GLOBAL PLASMA SOLUTIONS, PLASMA AIR* OR *BIOCLIMATIC*. DEVICES SHALL BE 24 VAC AND BE CONNECTED TO THE EQUIPMENT CONTROL CIRCUIT.

HEAT PUMPS:

SPLIT SYSTEM HEAT PUMPS SHALL BE BY *CARRIER, TRANE* OR *DAIKIN*. REFER TO THE EQUIPMENT SCHEDULE FOR CAPACITIES. PROVIDE PROGRAMMABLE THERMOSTATS, BUILT-IN ELECTRIC HEATER, AND SINGLE POINT POWER SUPPLY. PROVIDE 4-YEAR EXTENDED WARRANTY ON COMPRESSOR PARTS. PROVIDE CONTROLS AND ALL ACCESSORIES NEEDED FOR COMPLETE, OPERABLE SYSTEMS.

OUTDOOR HP UNITS ON GRADE SHALL BE MOUNTED TO 4" THICK REINFORCED HOUSEKEEPING PADS. HP UNITS ON ROOFS SHALL BE ANCHORED TO WELDED ALUMINUM EQUIPMENT STANDS, BASIS OF DESIGN *PRECISION ALUMINUM PRODUCTS*. PROVIDE 1" THICK NEOPRENE VIBRATION ISOLATION PADS FOR ALL OUTDOOR HP UNITS. REFRIGERANT LINE ROOF PENETRATIONS SHALL BE MADE THROUGH PREFABRICATED PIPE PORTALS. EXTEND COPPER REFRIGERANT LINES FROM OUTDOOR UNITS TO INDOOR UNITS.

INDOOR AH UNITS LOCATED ABOVE THE CEILING SHALL BE SUSPENDED ON THREADED HANGER RODS HVAC WITH VIBRATION ISOLATORS. FLOOR MOUNTED INDOOR UNITS SHALL BE MOUNTED ON WELDED EQUIPMENT STANDS WITH NEOPRENE PAD ISOLATION. SUSPEND A 3" DEEP WATERTIGHT EMERGENCY DRAIN PAN BENEATH EACH UNIT. DRAIN PANS SHALL BE SLIGHTLY SLOPED TO DRAIN WITH 1" EMERGENCY DRAIN LINES. PRIMARY DRAINS SHALL BE FULL SIZE WITH A HVAC DRAIN TRAPS. SECONDARY HVAC DRAIN OPENINGS SHALL BE PLUGGED. ALL AIR HANDLERS SHALL BE PROVIDED WITH RETURN FILTER RACK FOR 2" PLEATED FILTER WITH FILTER DRAWER OR HINGED FILTER DOOR.

SPLIT SYSTEM AIR SOURCE HEAT PUMP														
UNIT ID	OUTSIDE AIRFLOW (CFM)	FAN			EVAPORATOR COOLING COOL @ 95°F O.A.			ELECTRIC HEATER (KW)	VOLT	PH	HSPF	SEER	SEACOAST PROTECTION	BASIS OF DESIGN
		DESIGN AIRFLOW (CFM)	ESP (IN. WG)	TOTAL (MBH)	SENSIBLE (MBH)	ENTERING AIR								
AH-1 HP-1	120	1200	1.00	34	26	80	67	4.0	208	1	8.5	15	Yes	CARRIER FX4D / 29HCE

- REFER TO ELECTRICAL PLANS FOR POWER INFORMATION.
- PROVIDE AIR TREATMENT DEVICES FOR EACH AH UNIT.
- MOUNT HEAT PUMP ON WIND RATED EQUIPMENT STAND WITH NEOPRENE PAD ISOLATION.
- SUSPEND AIR HANDLING UNIT WITH SPRING ISOLATORS.
- PROVIDE AIR HANDLING UNIT WITH AUXILIARY PAN WITH FLOAT SWITCH.

FAN SCHEDULE										
UNIT ID	UNIT TYPE	DESIGN AIRFLOW (CFM)	ESP (IN. WG)	DRIVE TYPE	RPM	MOTOR POWER (HP)	INLET SONE	VOLT	PH	BASIS OF DESIGN
EF-A	CEILING	70	0.25	DIRECT	700	0.1	2	120	1	SP-B

- REFER TO ELECTRICAL PLANS FOR POWER INFORMATION.
- EF-A SHALL INTERLOCK WITH ASSOCIATED WALL SWITCH IN TOILET ROOM.

GRILLES, REGISTERS AND DIFFUSERS SCHEDULE								
ID	DESCRIPTION	FACE SIZE	NECK			INSTALLATION TYPE	MATERIAL	BASIS OF DESIGN
			SIZE	WIDTH	HEIGHT			
A	LOUVERED DOUBLE DEFLECTION GRILLE			6	6	SURFACE MOUNT INSTALLATION	ALUMINUM	TITUS 300FL
A	LOUVERED DOUBLE DEFLECTION GRILLE			12	6	SURFACE MOUNT INSTALLATION	ALUMINUM	TITUS 300FL
B	PLAQUE FACE DIFFUSER	24x24	6			LAY-IN INSTALLATION	ALUMINUM	TITUS OMNI-AA
C	LOUVERED DOUBLE DEFLECTION GRILLE	24x24		6	6	LAY-IN INSTALLATION	ALUMINUM	TITUS 300FL
R	LOUVERED FILTER GRILLE			24	14	SURFACE MOUNT INSTALLATION	ALUMINUM	TITUS 350FSF

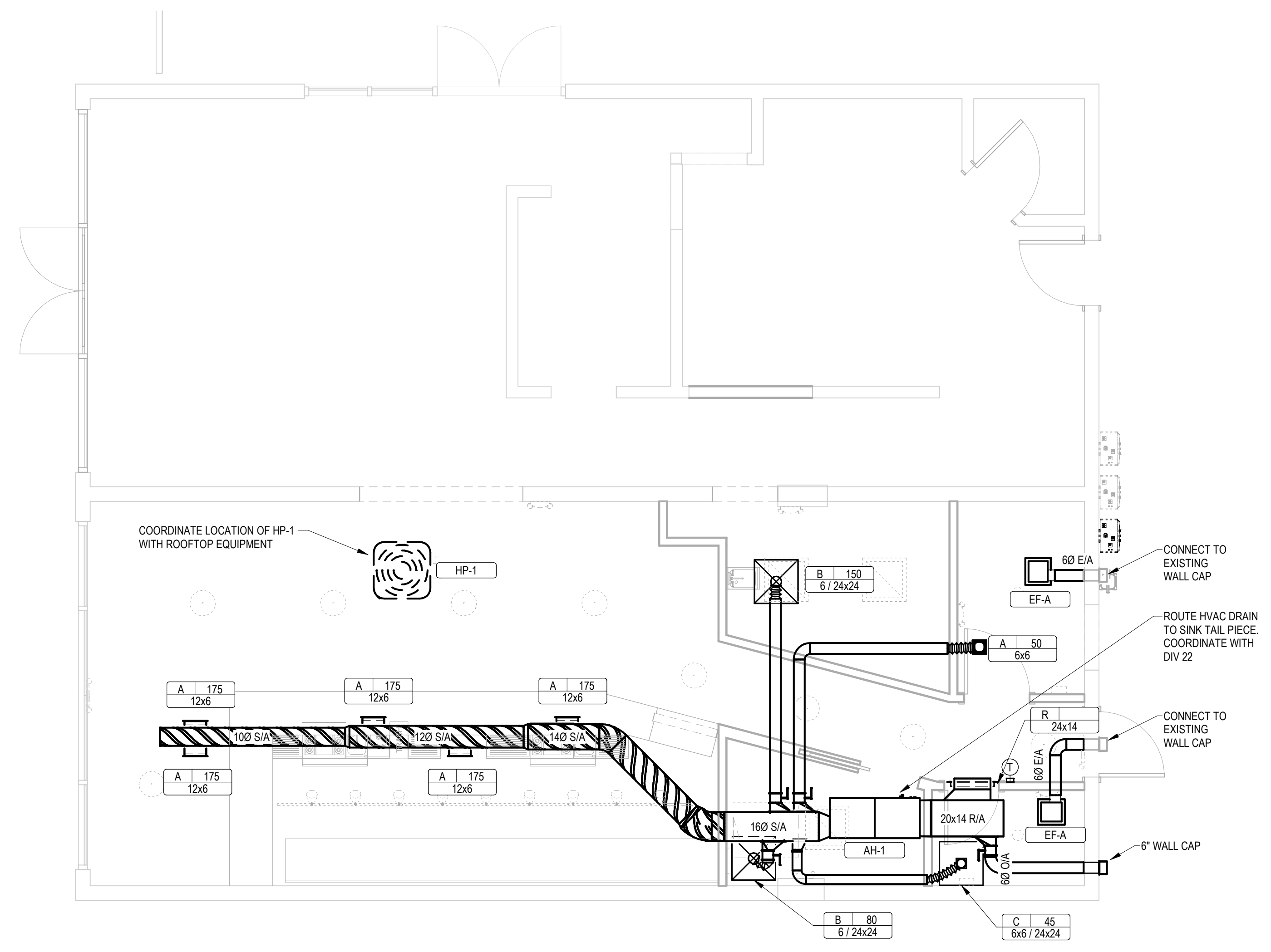


BULL STREET TACO EXPANSION
BULL STREET, SAVANNAH, GA

HVAC SPECIFICATIONS
2102
BCB
11/08/22

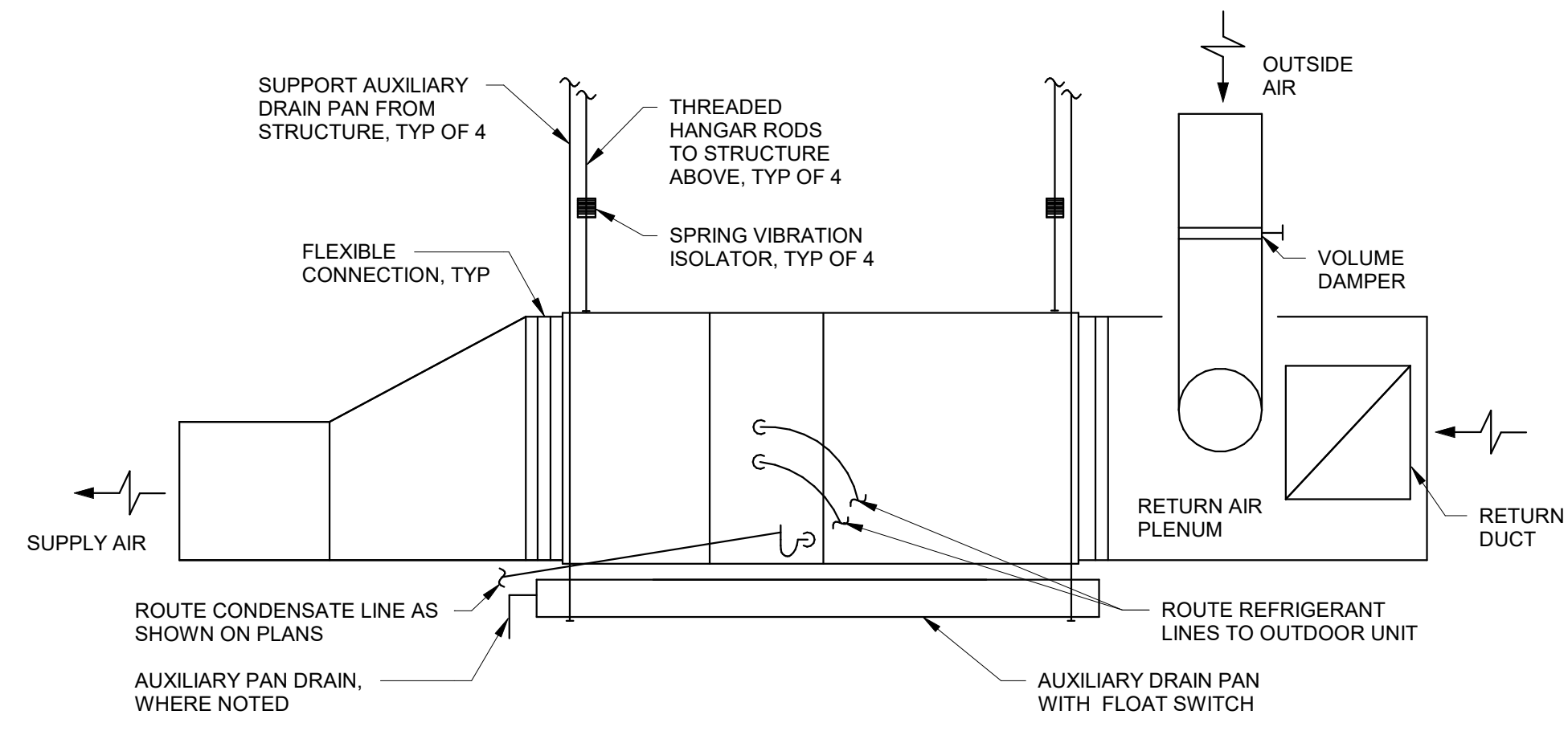
HVAC SHEET NOTES

- A CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE A COMPLETE AND WORKING SYSTEM.
- B INSTALL, SUPPORT, & BRACE NEW DUCTWORK AND ACCESSORIES PER SMACNA GUIDELINES.
- C DUCT SIZES SHOWN ARE CLEAR INSIDE DIMENSIONS. CONTRACTOR SHALL MAKE ALLOWANCE FOR ANY INTERIOR LINING, INSULATION, ETC.
- D ALL NEW DUCT ELBOWS SHALL BE RADIUS TYPE. WHERE NECESSARY, CONTRACTOR MAY SUBSTITUTE MITERED ELBOWS WITH TURNING VANES.
- E PROVIDE FLAT BLADE MANUAL VOLUME DAMPERS AT ALL TERMINAL DUCT BRANCHES AND AS INDICATED.
- F INSTALL EQUIPMENT PER MANUFACTURER'S RECOMMENDATIONS. ROOFTOP EQUIPMENT SHALL BE LOCATED NO CLOSER THAN 10'-0" FROM THE ROOF EDGE.
- G ALL PRIMARY CONDENSATE DRAIN PIPING SHALL BE INSULATED TO A MINIMUM THICKNESS OF 1/2" AND SHALL INCLUDE A VAPOR RETARDANT OUTSIDE THE INSULATION. SEAL ALL JOINTS AND PENETRATIONS.
- H COORDINATE ALL EXTERIOR PENETRATIONS INCLUDING ROOF PENETRATIONS WITH OTHER TRADES TO PROVIDE A COMPLETE AND FULLY WEATHER-PROOF INSTALLATION.
- I ALL TRANSFER DUCTWORK SHALL BE INTERNALLY LINED WITH MINIMUM 1/2" ACOUSTIC LINING.
- J CONTRACTOR SHALL ENGAGE A TESTING AND BALANCE FIRM CERTIFIED BY AABC TO PERFORM TESTING AND BALANCING PROCEDURES ON EACH SYSTEM ACCORDING TO THE PROCEDURES CONTAINED IN AABC'S "NATIONAL STANDARDS FOR TESTING AND BALANCING HEATING, VENTILATING, AND AIR CONDITIONING SYSTEMS" AND PROVIDE TWO COPIES OF THE CERTIFIED TAB REPORTS.

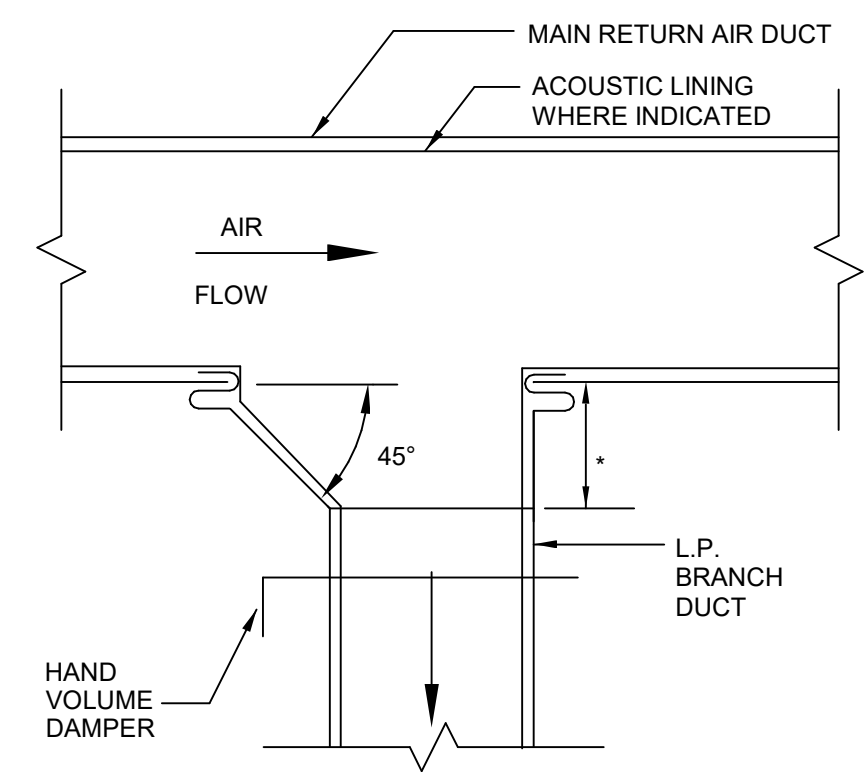


1 HVAC PLAN
M1.1 1/4" = 1'-0"

BULL STREET TACO EXPANSION
BULL STREET, SAVANNAH, GA

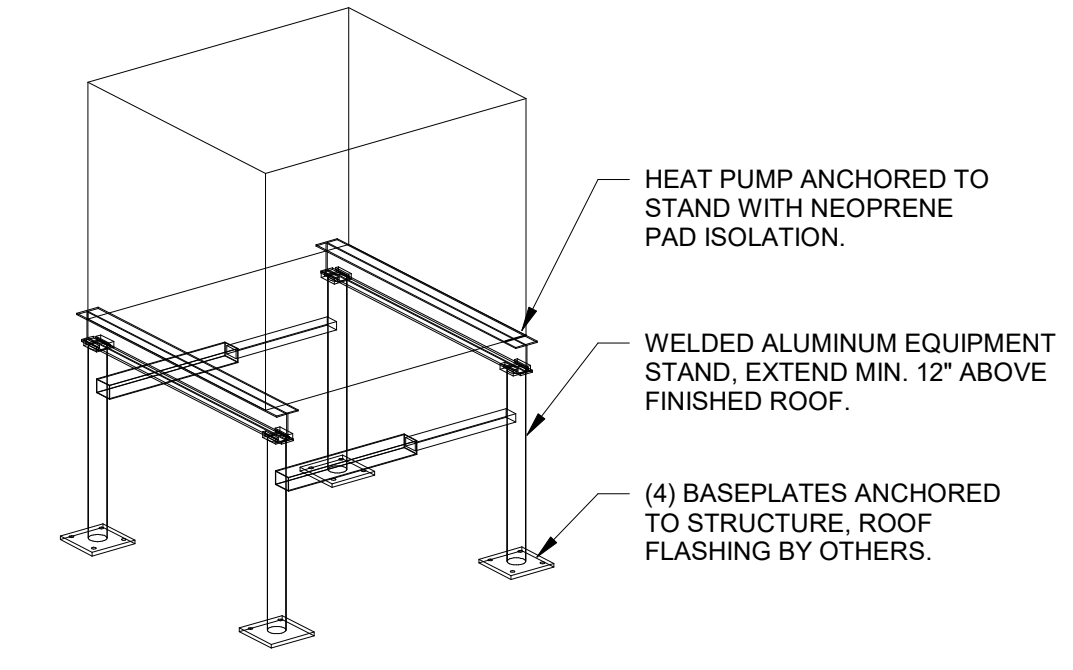


1 HORIZONTAL AIR HANDLER DETAIL
M2.1 NOT TO SCALE

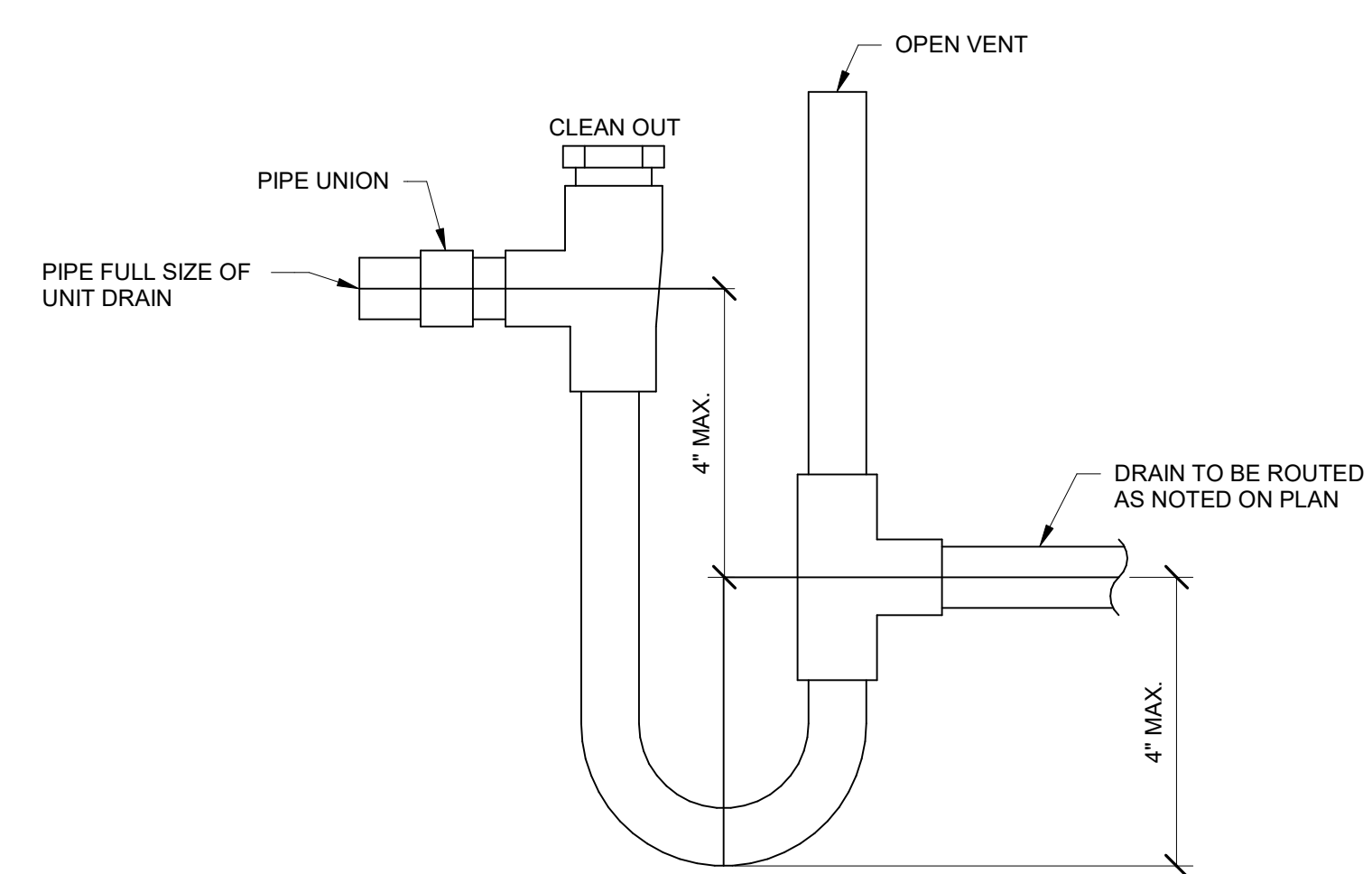


*EQUALS WIDTH OF BRANCH DUCT UP TO 12".
12" FOR ALL BRANCH DUCTS LARGER THAN 12".

2 DUCT TAKEOFF DETAIL
M2.1 NOT TO SCALE

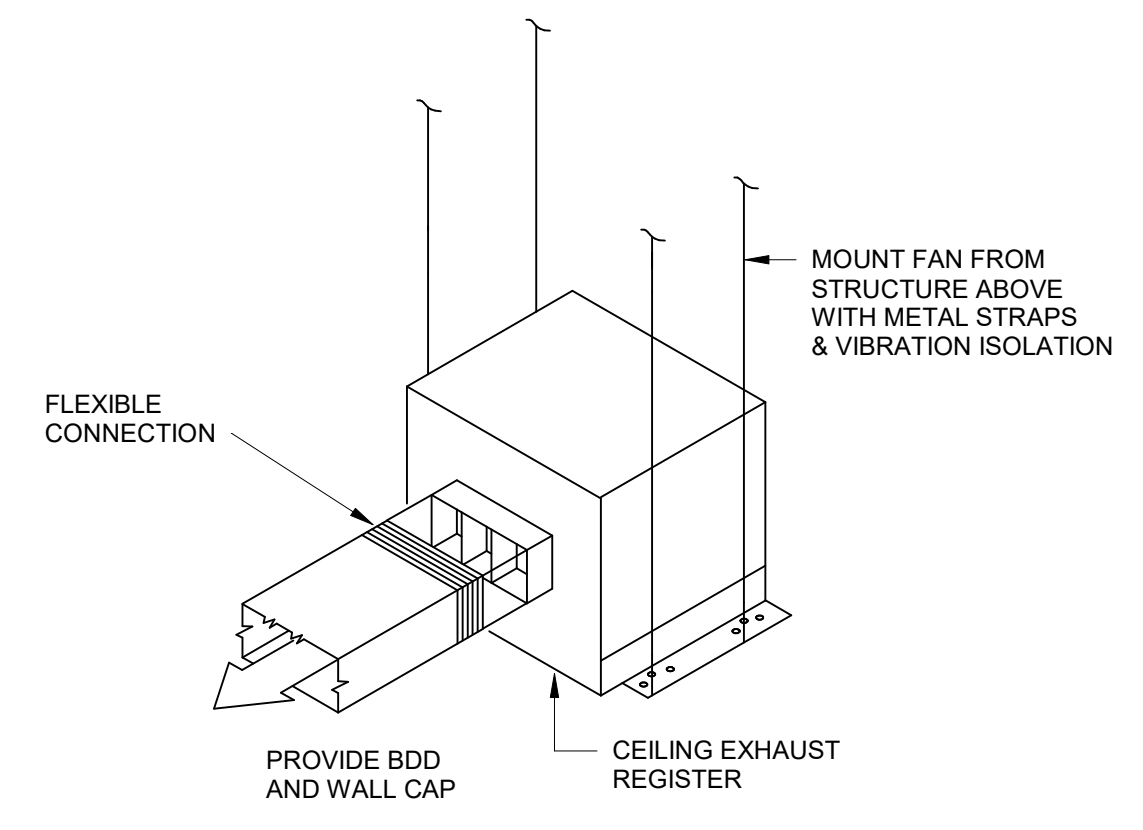


3 HEAT PUMP EQUIPMENT STAND
M2.1 NOT TO SCALE

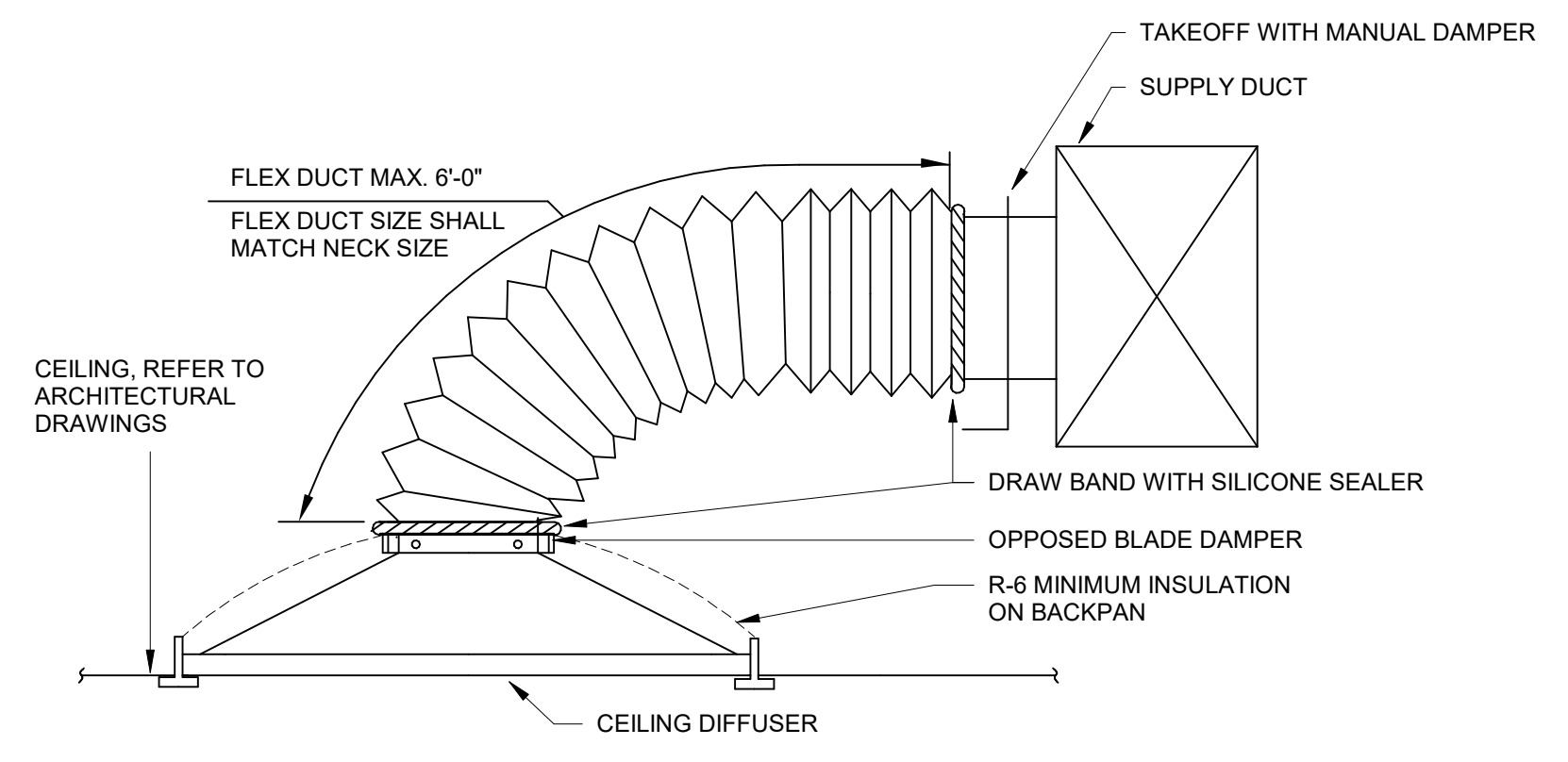


- NOTES:
1. PIPING SHALL MAINTAIN A MINIMUM SLOPE OF 1/8" PER FOOT IN THE DIRECTION OF DISCHARGE.
 2. LOCATE TRAPS SO AS TO BE ACCESSIBLE FOR CLEANING.

4 HVAC - HVAC DRAIN DETAIL
M2.1 NOT TO SCALE



5 CEILING EXHAUST FAN DETAIL
M2.1 NOT TO SCALE



6 TYPICAL DIFFUSER CONNECTION (SIDE)
M2.1 NOT TO SCALE

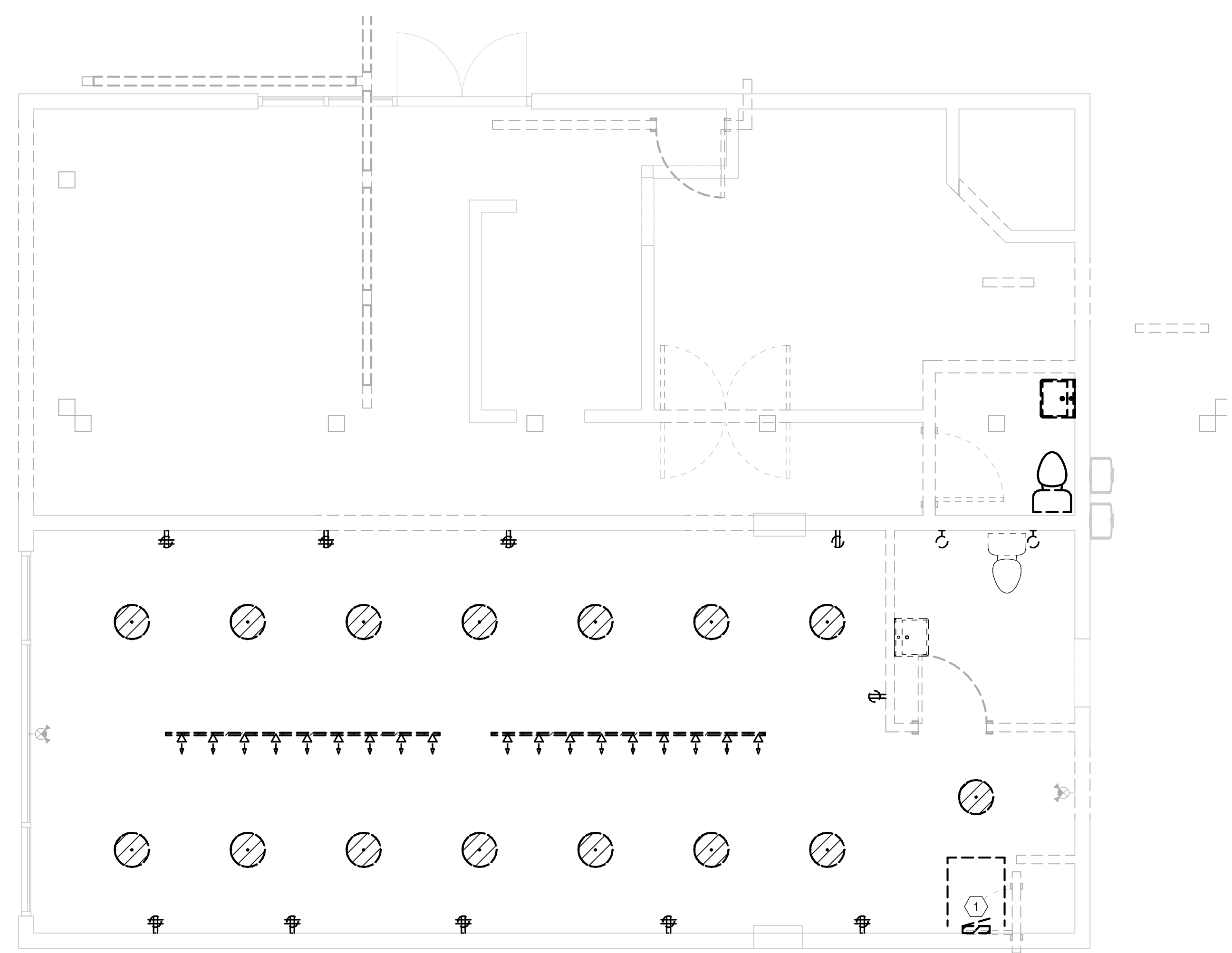
BULL STREET TACO EXPANSION
BULL STREET, SAVANNAH, GA

DEMOLITION SHEET NOTES

- A SEE ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR PHASES OF DEMOLITION AND CONSTRUCTION. COORDINATE WITH GENERAL CONSTRUCTION.
- B DISCONNECT AND REMOVE ALL ELECTRICAL DEVICES AND LIGHTING FIXTURES IN DEMOLITION AREAS UNLESS NOTED OTHERWISE.
- C DISCONNECT AND REMOVE ALL ELECTRICAL DEVICES IN WALLS TO BE DEMOLISHED. WALLS TO BE DEMOLISHED ARE SHOWN DASHED. DISCONNECT AND REMOVE ASSOCIATED CONDUIT AND WIRE BACK TO LAST REMAINING DEVICE. FURNISH AND INSTALL CONDUIT AND WIRE AS NECESSARY FOR CONTINUITY OF CIRCUIT(S) TO ANY EXISTING DEVICES TO REMAIN. COORDINATE AND VERIFY REQUIREMENTS WITH NEW WORK IN AREA.
- D FURNISH AND INSTALL CONDUIT AND WIRE AS NECESSARY FOR CONTINUITY OF ANY FEEDERS OR BRANCH CIRCUITS ORIGINATING OUTSIDE THE DEMOLITION AREA THAT SERVES ANY ELECTRICAL EQUIPMENT OR DEVICES TO REMAIN AFTER DEMOLITION. MODIFY OR REPLACE AS REQUIRED.
- E FURNISH AND INSTALL CONDUIT AND/OR COMMUNICATIONS/DATA WIRING AS NECESSARY FOR CONTINUITY OF ANY WIRING ORIGINATING OUTSIDE THE DEMOLITION AREA THAT SERVES ANY COMMUNICATIONS/DATA EQUIPMENT OR DEVICES TO REMAIN AFTER DEMOLITION. MODIFY OR REPLACE AS REQUIRED.
- F DISCONNECT AND REMOVE LIGHT SWITCHES IN DEMOLITION AREAS AS NECESSARY TO ACCOMMODATE NEW DOOR CONFIGURATIONS.
- G DISCONNECT AND REMOVE ANY EXISTING ELECTRICAL DEVICES AND BACK BOXES AS NECESSARY WHERE NEW WALL CONSTRUCTION WILL INTERSECT AN EXISTING WALL. FURNISH AND INSTALL CONDUIT AND WIRE AS REQUIRED FOR CONTINUITY OF CIRCUIT(S).
- H FURNISH AND INSTALL BLANK COVER PLATES OVER ALL EXISTING UNUSED OPENINGS.

KEYNOTES

- 1 EXISTING PANEL TO BE RELOCATED AS SHOWN ON NEW PLAN. PROVIDE NEW BREAKERS AS SHOWN IN NEW PANEL SCHEDULE.



1 ELECTRICAL DEMOLITION PLAN
E1.1 1/4" = 1'-0"

BULL STREET TACO EXPANSION
BULL STREET, SAVANNAH, GA

ELECTRICAL
2102
DEMOLITION PLAN
Author
11/08/22

LIGHTING SHEET NOTES

- A ALL RECESSED LIGHTING FIXTURES IN LAY-IN CEILINGS SHALL BE INSTALLED WITH 6' LONG FLEXIBLE METAL CONDUIT.
- B ALL MOUNTING HEIGHTS FOR LIGHTING FIXTURES ARE TO THE BOTTOM OF THE FIXTURES UNLESS INDICATED OTHERWISE.
- C SEE ARCHITECTURAL EXTERIOR ELEVATIONS FOR MOUNTING HEIGHTS OF EXTERIOR LIGHTING FIXTURES.
- D CIRCUIT WIRING IS NOT SHOWN. PROVIDE PROPER NUMBER OF CONDUCTORS TO ACHIEVE CIRCUITING AND SWITCHING SHOWN.
- E CIRCUIT NUMBERS AT DEVICES CORRESPOND TO PANELBOARD BREAKERS (SEE PANELBOARD SCHEDULE). BRANCH CIRCUITS SHALL BE SIZED ACCORDING TO THE CIRCUIT BREAKER RATING, UNLESS INDICATED OTHERWISE ON THE ELECTRICAL EQUIPMENT SCHEDULE.
- F WHERE WALL MOUNTED FIXTURES REQUIRE A LARGER BACKBOX FOR ELECTRONIC ITEMS SUCH AS AN EMERGENCY BATTERY, PROVIDE THE SAME LARGER SIZE BACKBOX FOR ALL FIXTURES OF THE SAME TYPE IN THE SPACE.

KEYNOTES

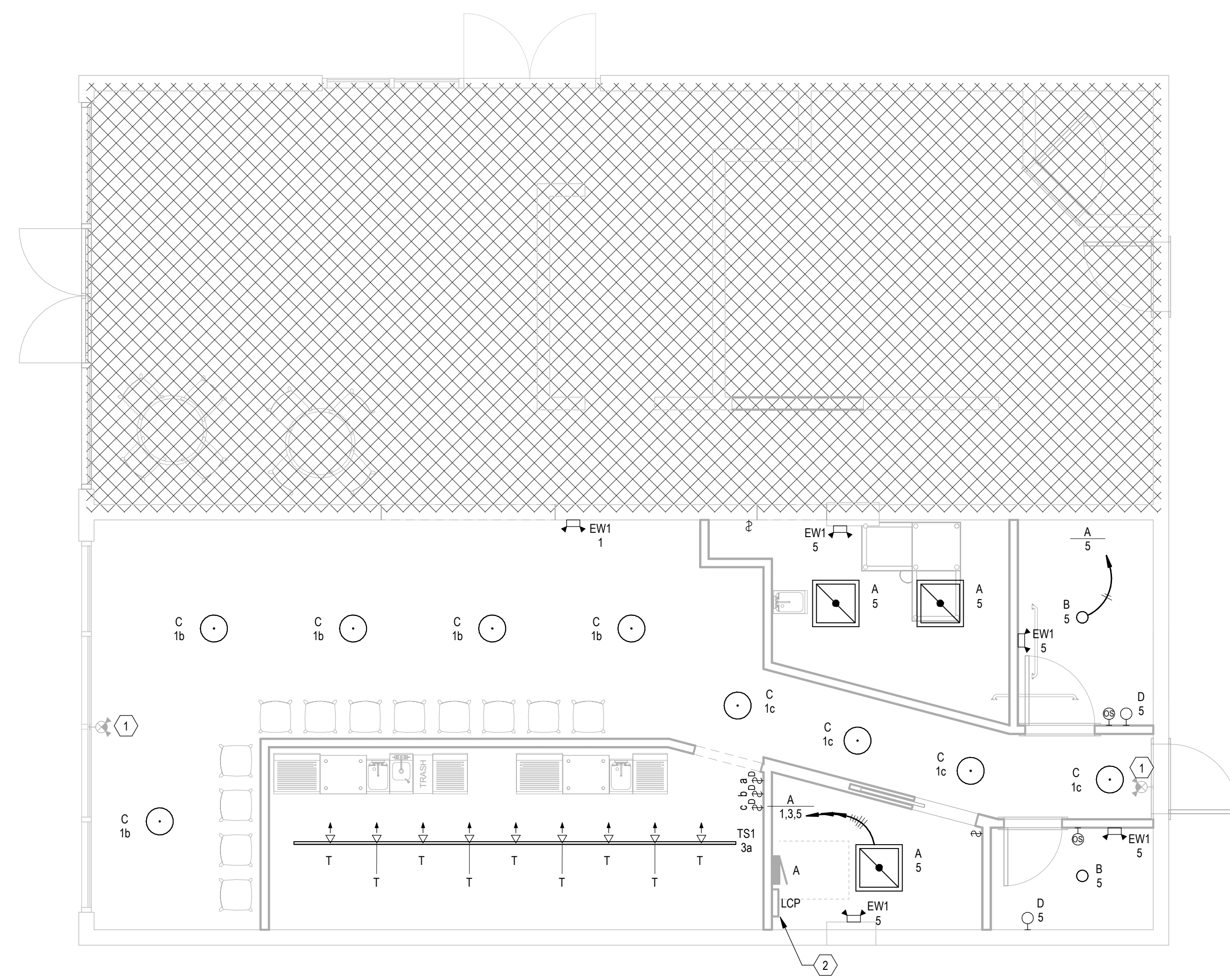
- 1 EXISTING EXIT SIGN TO REMAIN. RECIRCUIT TO LIGHTING CIRCUIT IN SAME SPACE.
- 2 4 POLE LIGHTING CONTACTOR PANEL WITH ASTRONIMICAL TIMECLOCK FOR AUTO SHUT OFF OF INTERIOR FIXTURES TO COMPLY WITH ENERGY CODE.

POWER SHEET NOTES

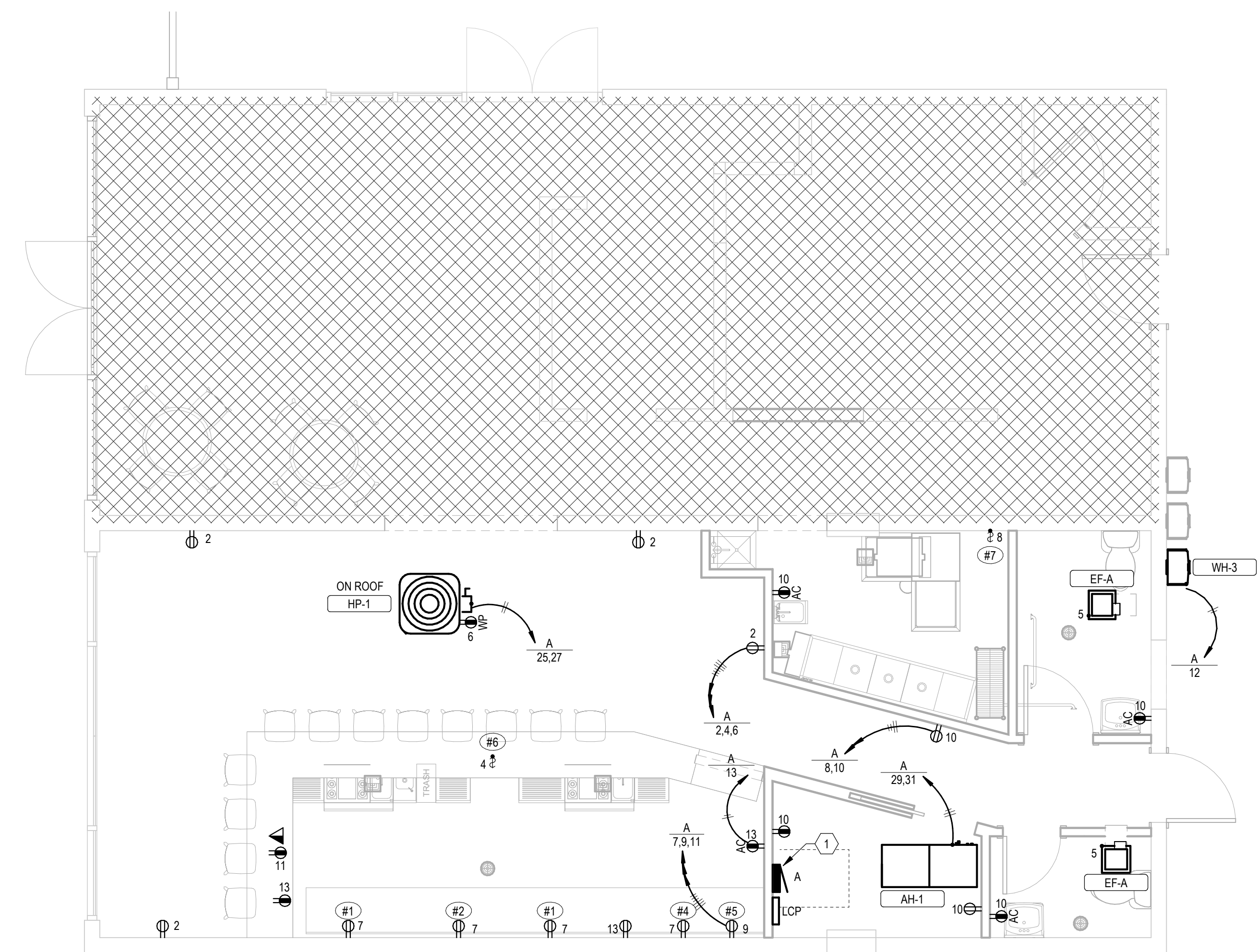
- A WHERE CONNECTED TO A 20A BRANCH CIRCUIT SUPPLYING AN INDIVIDUAL RECEPTACLE (SIMPLEX OR DUPLEX), THE RECEPTACLE SHALL BE RATED AT 20A.
- B CIRCUIT WIRING IS NOT SHOWN. PROVIDE PROPER NUMBER OF CONDUCTORS TO ACHIEVE CIRCUITING AND SWITCHING SHOWN.
- C CIRCUIT NUMBERS AT DEVICES CORRESPOND TO PANELBOARD BREAKERS (SEE PANELBOARD SCHEDULE). BRANCH CIRCUITS SHALL BE SIZED ACCORDING TO THE CIRCUIT BREAKER RATING, UNLESS INDICATED OTHERWISE ON THE ELECTRICAL EQUIPMENT SCHEDULE.
- D PROVIDE HOUSEKEEPING PADS FOR ALL FLOOR MOUNTED AND GRADE MOUNTED ELECTRICAL EQUIPMENT. MINIMUM REQUIREMENTS: 4" HIGH, 4% AIR ENTRAINED, POLYFIBER REINFORCED CONCRETE, 4" WIDER AND 4" LONGER THAN EQUIPMENT TO BE PLACED ON IT. REFER TO ELECTRICAL DETAIL DRAWINGS FOR TRANSFORMER, GENERATOR, OR SWITCHGEAR PADS THAT MAY EXCEED THESE REQUIREMENTS.

KEYNOTES

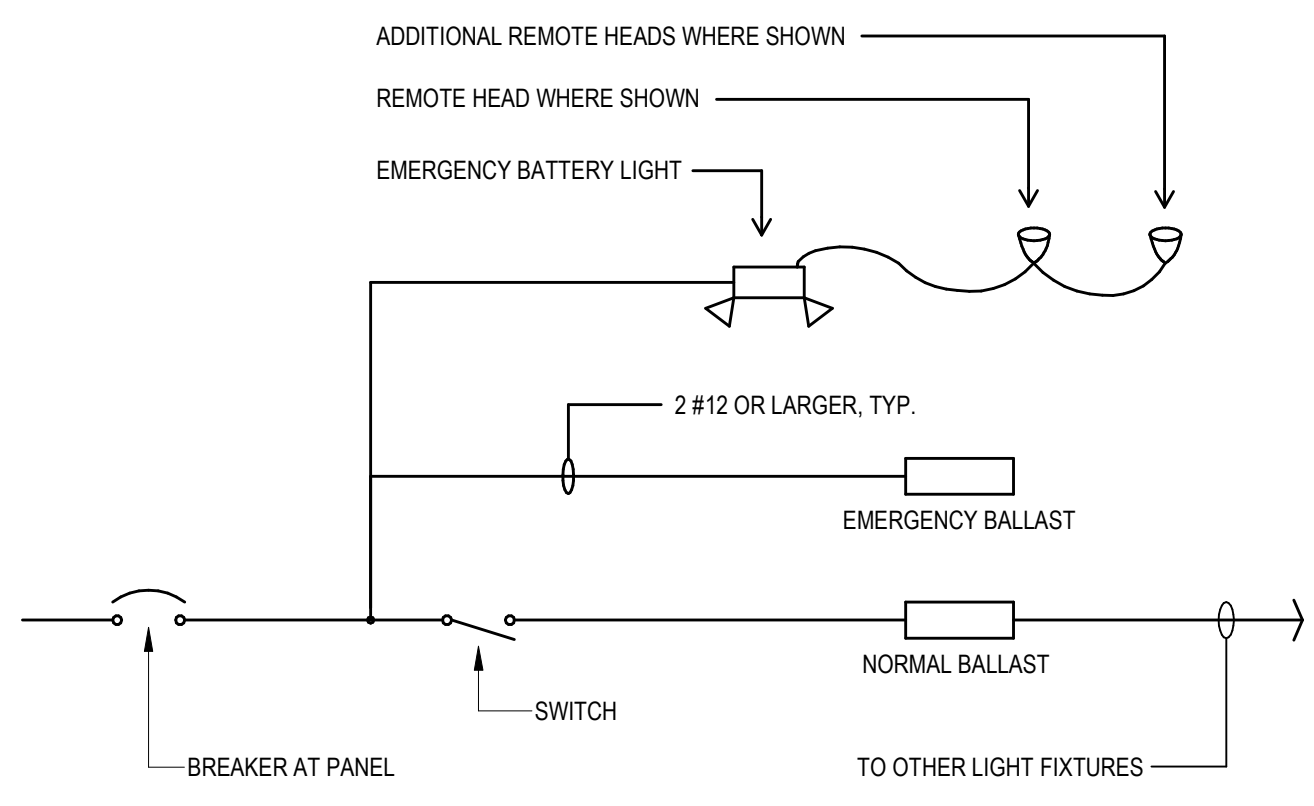
- 1 RELOCATED EXISTING LOAD CENTER.



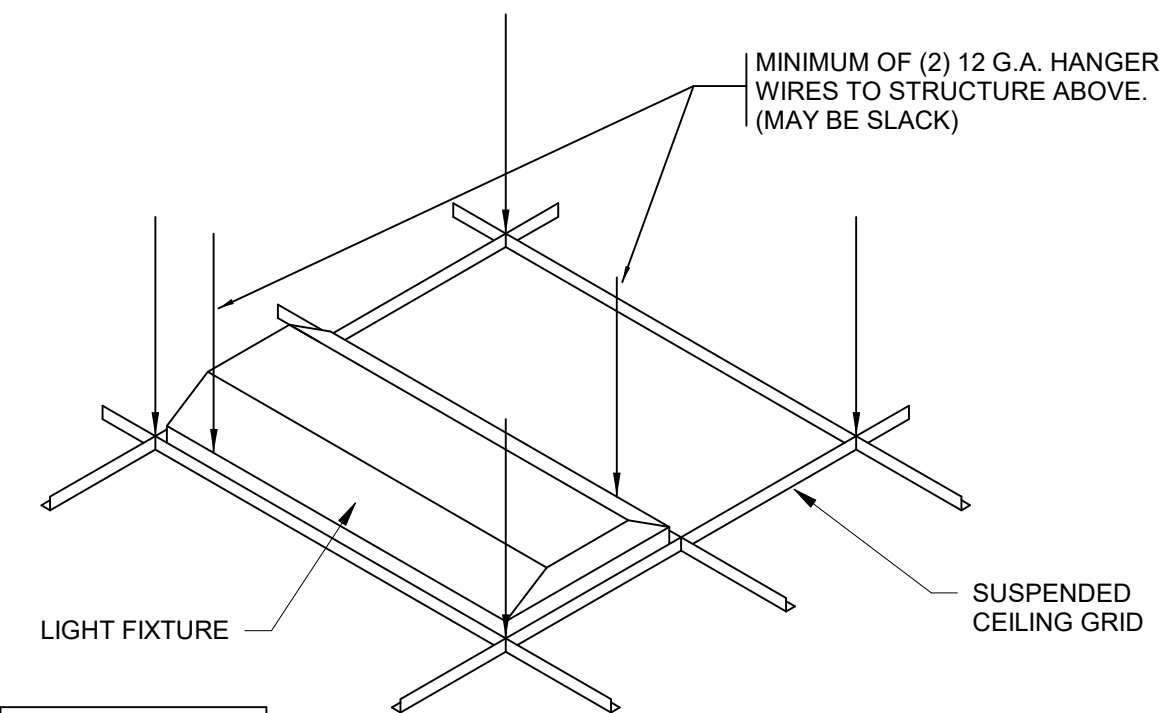
1 LIGHTING PLAN
E2.1 1/4" = 1'-0"



2 POWER PLAN
E2.1 1/4" = 1'-0"



1 EMERGENCY LIGHTING WIRING DIAGRAM
E3.1 NOT TO SCALE

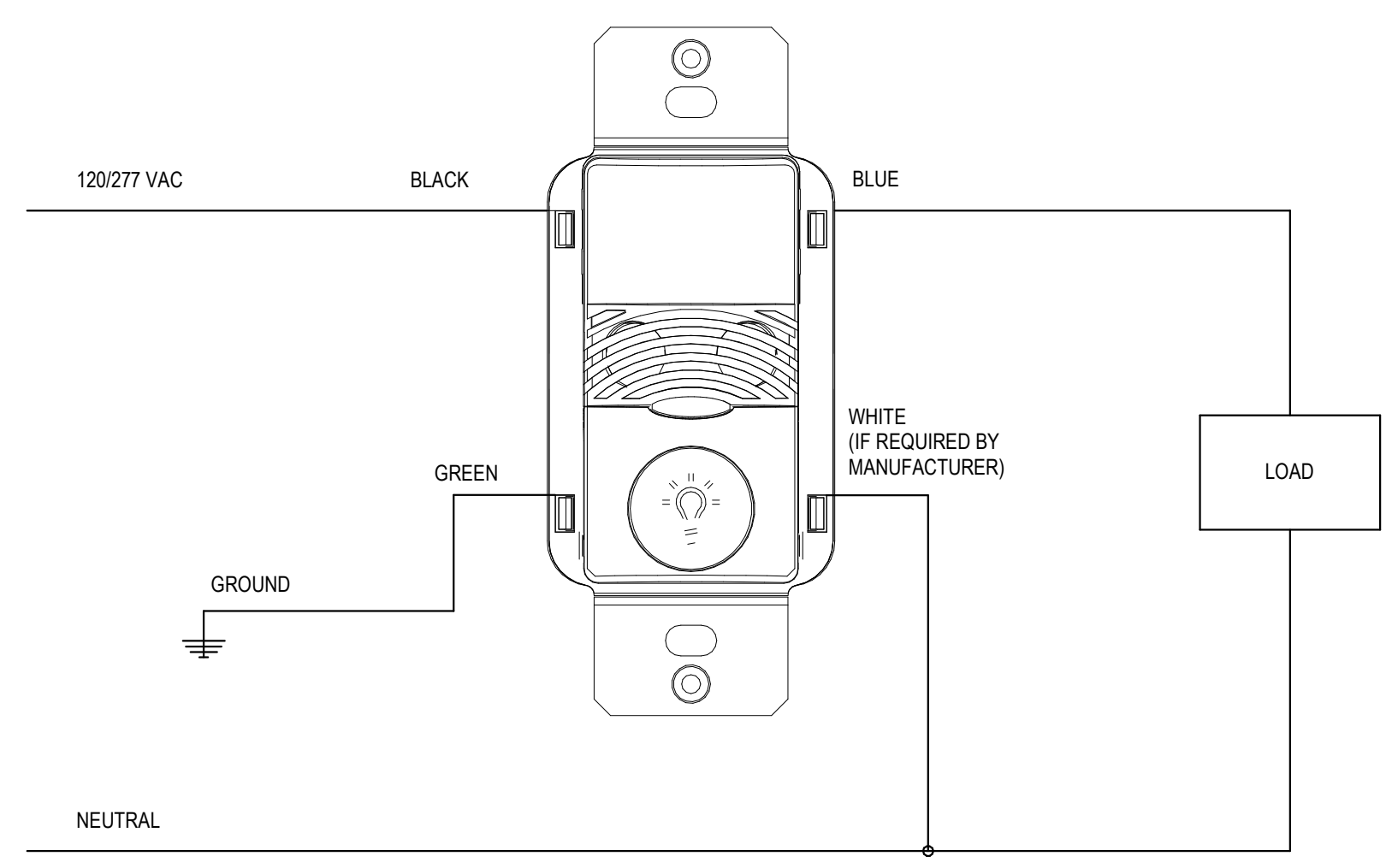


NOTE:
TYPICAL FOR 2'X4'
LUMINARIES.

2 LIGHT SUPPORT DETAIL
E3.1 NOT TO SCALE

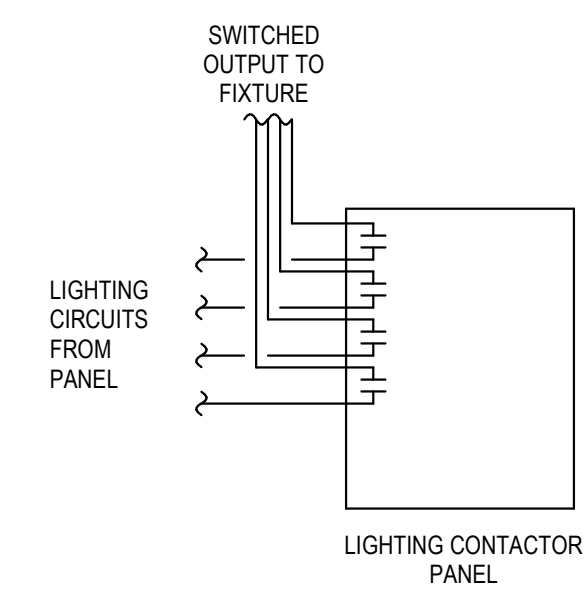
VACANCY (MANUAL ON/AUTO OFF) MODE
1. SWITCH IS REQUIRED TO TURN LOAD ON.
2. LOAD TURNS OFF WHEN SENSOR TIMES OUT OR WITH SWITCH.

OCCUPANCY (AUTO ON/AUTO OFF) MODE
1. WHEN SENSOR ACTIVATES, LOAD TURNS ON.
2. SWITCH CAN BE USED TO TURN LOAD ON OR OFF.



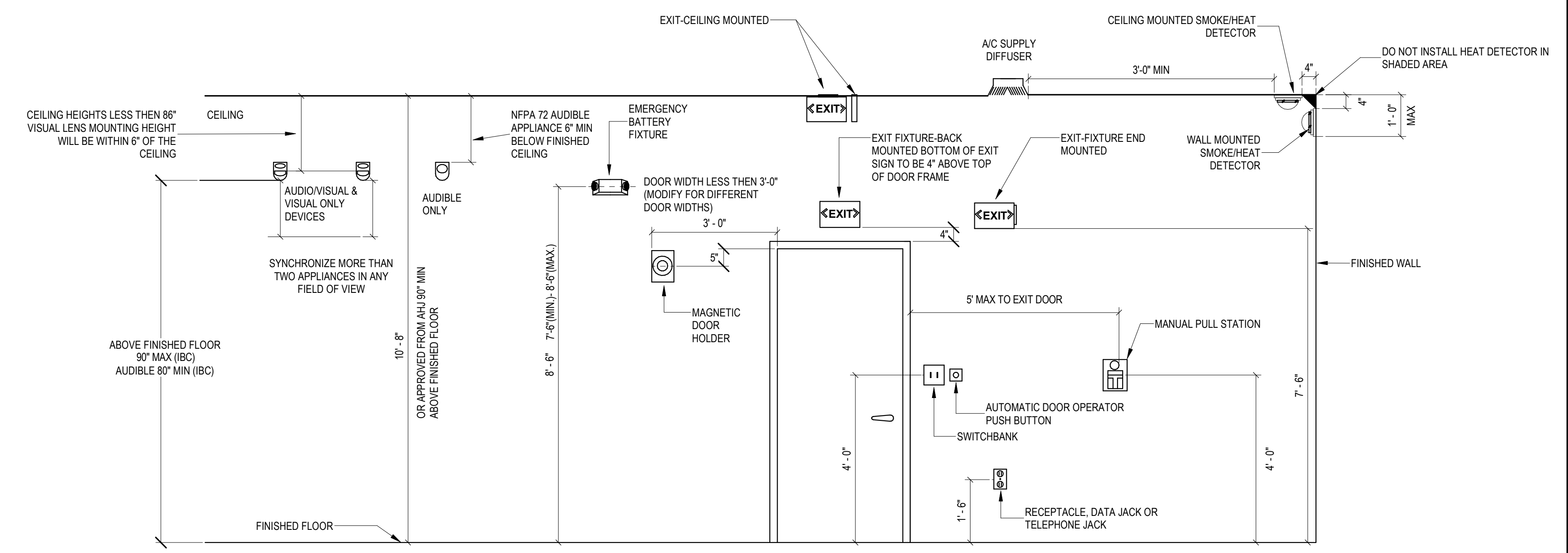
4 WALL MOUNTED OCCUPANCY/VACANCY SENSOR
E3.1 NOT TO SCALE

LIGHTING CONTROL SCHEDULE				
ZONE	DESCRIPTION	CIRCUIT	CONTROL TYPE	NOTES
1	INTERIOR LIGHTING	A-1	TIME-ON / TIME-OFF	
2	INTERIOR LIGHTING	A-3	TIME-ON / TIME-OFF	
3	INTERIOR LIGHTING	A-5	TIME-ON / TIME-OFF	
4	SPARE			



NOTES
1. LIGHTING CONTROL PANEL SHALL HAVE ASTRONOMICAL TIMECLOCK. COORDINATE PROGRAMMING OF TIME-ON/TIME-OFF WITH OWNER PRIOR TO TURN OVER.

5 LIGHTING CONTROL DETAIL
E3.1 NOT TO SCALE



3 TYPICAL MOUNTING HEIGHTS
E3.1 1/2" = 1'-0"

BULL STREET TACO EXPANSION
BULL STREET, SAVANNAH, GA