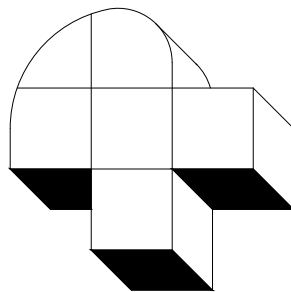


ZONING
BUILDING ADDRESS: 713 INDIANA
OWNER: WILL KILTY, 713 INDIANA, LLC OWNERS ADDRESS: 719 SCOTT AVE, STE. 712, WICHITA FALLS, TX 76301 OWNERS PHONE NO.: 323-252-8699 PROPERTY LEGAL DISCRIPTION: LOT 11 BLK. 163 ORGINAL TOWN, WF PROPERTY ZONED: CBD PROPERTY EXISTING USE: REBUILT FROM RETAIL PROPERTY PROPOSED USE: ASSEMBLY / RESTAURANT / BREWERY LANDSCAPING: UNDETERMINED BUFFERING: N/A IRRIGATION: N/A PAVING:N/A FLOOD ZONE: BUILDING DOES NOT LIE WITHIN THE 100 FLOOD PLAIN PARKING: CENTRAL BUSINESS DISTRICT STORM WATER DETENTION: N/A
2015 INTERNATIONAL BUILDING CODE
BUILDING ADDRESS: 713 INDIANA AVE.
CHAPTER 3: USE AND OCCUPANCY CLASSIFICATIONS: BUILDING STATUS (NEW/EXIST): EXISTING BUILDING BUILDING SQUARE FOOTAGE: FIRST FLOOR = 7,250, SECOND FLOOR = 3,522 TOTAL G.S.F. = 10,772 BUILDING CLASSIFIED USES: PROPOSED GROUP "A-2" THIS OCCUPANCY GROUP: WHITE BOX FOR FUTURE OCCUPANCY GROUP "A-2" (RESTAURANT/BREWERY)
CHAPTER 5: GENERAL BUILDING HEIGHTS AND AREAS : CONSTRUCTION TYPE III-B TABLE 504.3 ALLOWABLE HEIGHT: 75' , BUILDING < 35' HIGH TABLE 504.4 STORIES ALLOWED 3 - BUILDING IS TWO STORY TABLE 506.2 ALLOWABLE AREA THIS OCCUPANCY: 28,500 G.S.F. (TOTAL THIS BUILDING IS 10,772 G.S.F.) SECTION 508 MIXED USE AND OCCUPANCY 508.2 ACCESSORY OCCUPANCIES: N/A 503.3 NON SEPARATED OCCUPANCIES - N/A
AREA MODIFICATIONS DUE TO FRONTAGE INCREASE 506.2 - NOT UTILIZED
CHAPTER 6: TYPES OF CONSTRUCTION: BUILDING CONSTRUCTION TYPE: III-B TABLE 601: FIRE RESISTANCE RATING REQUIREMENTS FOR BUILDING ELEMENTS, FOR TYPE III-B = 0 HR, EXTERIOR BEARING WALL = 2HRS TABLE 602: FIRE RESISTANCE RATING REQUIREMENTS FOR EXT.WALLS BASED UPON SEPARATION DISTANCE: FOR TYPE III-B, X < 5 = 1 HR. FOR GROUP A
CHAPTER 7: FIRE RESISTANCE RATINGS 707.3.9 FIRE BARRIER - SEPARATED OCCUPANCIES - N/A 708.1 FIRE PARTITIONS - CORRIDOR WALLS AS PER 1020.1 - GROUP "A" SPRINKLED BUILDING - 0 HRS. FLOOR TO FLOOR SEPARATION: N/A TENANT SEPARATION: N/A STAIR COMPARTMENT PROTECTION: N/A
CHAPTER 8: INTERIOR WALL AND CEILING FINISH REQUIREMENTS BY OCCUPANCY FOR GROUP-"A-2" (SPRINKLED BUILDING): EXIT ENCLOSURES AND EXIT PASSAGEWAYS: CLASS - B CORRIDORS: CLASS - B (LOBBY AREAS SHALL NOT BE LESS THAN CLASS B MATERIALS) ROOMS AND ENCLOSED SPACES: CLASS - C
CHAPTER 9: FIRE PROTECTION SYSTEMS: 903.2.1.3 - GROUP "A-2" - REQUIRED (S.F. GREATER THAN 5,000 S.F., OCCUPANT LOAD GREATER THAN 100 AND FIRE AREA IS ON A FLOOR OTHER THAN THE LEVEL OE EXIT DISCHARGE) 906.1 FIRE EXTINGUISHERS AND TABLE 903.6 (1), TABLE 906.3: REQUIRED AND PROVIDED: 2 - GENERAL 2A, 10B, C TYPE "K" TO BE PROVIDED IN KITCHEN BY TENANT. SECTION 907 FIRE ALARM AND DETECTION SYSTEMS: 907.2 WHERE REQUIRED - NOT REQUIRED IN SPRINKLED BUILDINGS 907.2.1 GROUP "B": MANUAL ALARM SYSTEM IS NOT REQUIRED IN GROUP "B" (DOES NOT MEET THRESHOLD STATED) 907.2.11 SINGLE - AND MULTIPLE - STATION SMOKE ALARMS NOT REQUIRED BUT WILL BE PROVIDED THROUGH OUT MEETING UL217
CHAPTER 10 - MEANS OF EGRESS (FROM OCCUPANCY TABLE 1004.1.1): SEE TABULATION ON SHEET NO. 12 SECTION 1004 OCCUPANT LOAD 1004.1 DESIGN OCCUPANT LOAD. SECTION 1004.1.2 DINING AREAS FIRST FLOOR DINING AREA = 207 SECOND FLOOR DINING AREA = 166 TOTAL OCCUPANCY = 273 1004.1 TOTAL CALCULATED OCCUPANCY LOAD FOR DETERMINING MEANS OF EGRESS PURPOSES = 273 PERSONS BY CALCULATION ****ACTUAL OCCUPANCY TO BE DETERMINED BY TENANT FINISH OUT
SECTION 1005 - MEANS OF EGRESS SIZING: SECTION 1005.3.2 - OTHER EGRESS COMPONENTS: 273 PERSONS x .20 in = 54.6 in. (144 IN PROVIDED x 50% LOSS = 72 IN.) TABLE 1006.2.1 NUMBER OF EXITS REQUIRED BY OCCUPANT LOAD TABLE 1006.3.1: 2 NUMBER PROVIDED: 3 SECTION 1007 - EXIT AND EXIT ACCESS DOORWAY CONFIGURATION: DOORS MEET REQUIRED SEPARATION (> THAN 1/2 DIAGONAL) SECTION 1008 - MEANS OF EGRESS ILLUMINATION: REQUIRED AND PROVIDED W/ 90 MIN. BATTERY BACKUP SECTION 1009 - ACCESSIBLE MEANS OF EGRESS: COMPLIANCE W/ ADAG SECTION 1010 - DOORS, GATES AND TURNSTILES. SECTION 1013 EXIT SIGNS: REQUIRED AND PROVIDED (LIGHTED W/ 90 MIN. BATTERY BACKUP) MORE MAY BE ADDED BY UNDER TENANT FINISH OUT TABLE 1017.2 EXIT ACCESS TRAVEL DISTANCE: GROUP "A" = 250' (ALLOWED IN SPRINKLERED SPACES) 72' THIS SPACE TABLE 1020.1 CORRIDOR EGRESS PROTECTION = N/R (0 HR WHEN SPRINKLED BUILDING)
CHAPTER 11: ACCESSABILITY IN COMPLIANCE WITH: TAS, ICC AND ADAG
CHAPTER 29: PLUMBING SYSTEMS PLUMBING FIXTURES REQUIRED (TABLE 2902.1): TOILETS - A-2: 1 PER 40 MALE, 1 PER 40 PER FEMALE 273/2 = 137 / 40 = 3 TOILETS EACH LAVATORIES - 1 PER 200 MALE/FEMALE 273 / 2 = 137 / 100 = 1.3 1 DRINKING FOUNTAIN: N/R IN RESTAURANTS SERVING WATER 1 SERVICE SINK PLUMBING FIXTURES PROVIDED: FIRST FLOOR: MENS TOILET - 2 TOILETS (1H.C.) + 1 URINAL WOMENS TOILET 3 TOILETS (1 H.C.) SECOND FLOOR: MENS TOILET- 1 H.C. TOILET + 1 URINAL WOMENS TOILET - 2 TOILETS (1 H.C.) 2 LAVATORIES EA. MALE/FEMALE PER FLOOR (TOTAL 8 LAVATORIES) 2 SERVICE SINK (1 PER FLOOR)
HANDICAP ACCESSABILITY: ADAG AND ICC BUILDING CODE: 2015 I- CODES "INTERNATIONAL BUILDING CODE***" (W/AMENDMENTS) AND 2005 NEC (W/AMENDMENTS) LIFE SAFETY CODE: NFPA 101, 2012 & NFPA 70, 2008

SCOPE OF WORK:

THIS PERMIT APPLICATION IS FOR A "WHITE BOX" PREPARATION BY THE OWNER/LANDLORD FOR A TENANT.



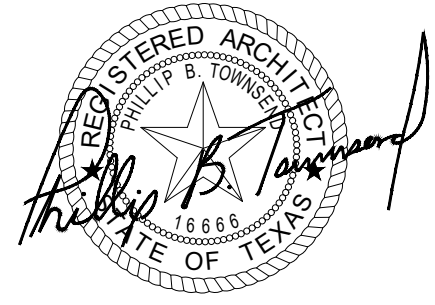
Phillip B. Townsend, R.A.

Architect, Interior Design, Programmer,
Planner, Building Code Consultant
4613 Misty Valley West
Wichita Falls, Texas 76310

940-642-3590

SHEET INDEX

No.	Title
1	Cover Sheet - Drawing Index - Code Review
2	First Floor - Demo
3	Concrete Demo/Repair @ Entry - Area "A"
4	1st Floor Plan - Dimension - Area "A"
5	1st Floor Plan - Dimension - Area "B"
6	Not Used
7	1st Floor Plan - Life Safety
8	Not Used
9	Interior Elevations
10	Not Used
11	Exterior Elevation - Front (West) Exterior
12	West Elevation @ Middle Wall
13	West Elevation @ Rear Wall
14	Not Used
15	Section
16	Not Used
17	1st Floor - Water Distribution - Area "A"
18	1st Floor - Sanitary Sewer - Area "A"
19	1st Floor - Sanitary Sewer - Area "B"
20	Not Used
21	1st Floor - HVAC - Area "A"
22	1st Floor - HVAC - Area "B"
23	Not Used
24	1st Floor - Electrical - Area "A"
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26	Not Used
27	Electrical Riser & Panel Schedule
28	Texas Accessibility 1 of 3
29	Texas Accessibility 2 of 3
30	Texas Accessibility 3 of 3



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✕ Matthew 7:7

Rom 1:16 1 Cor. 15:1-4 Rom 6:3-6

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A White Box Renovation
for
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713 Indiana
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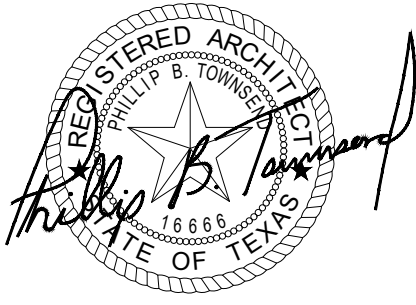
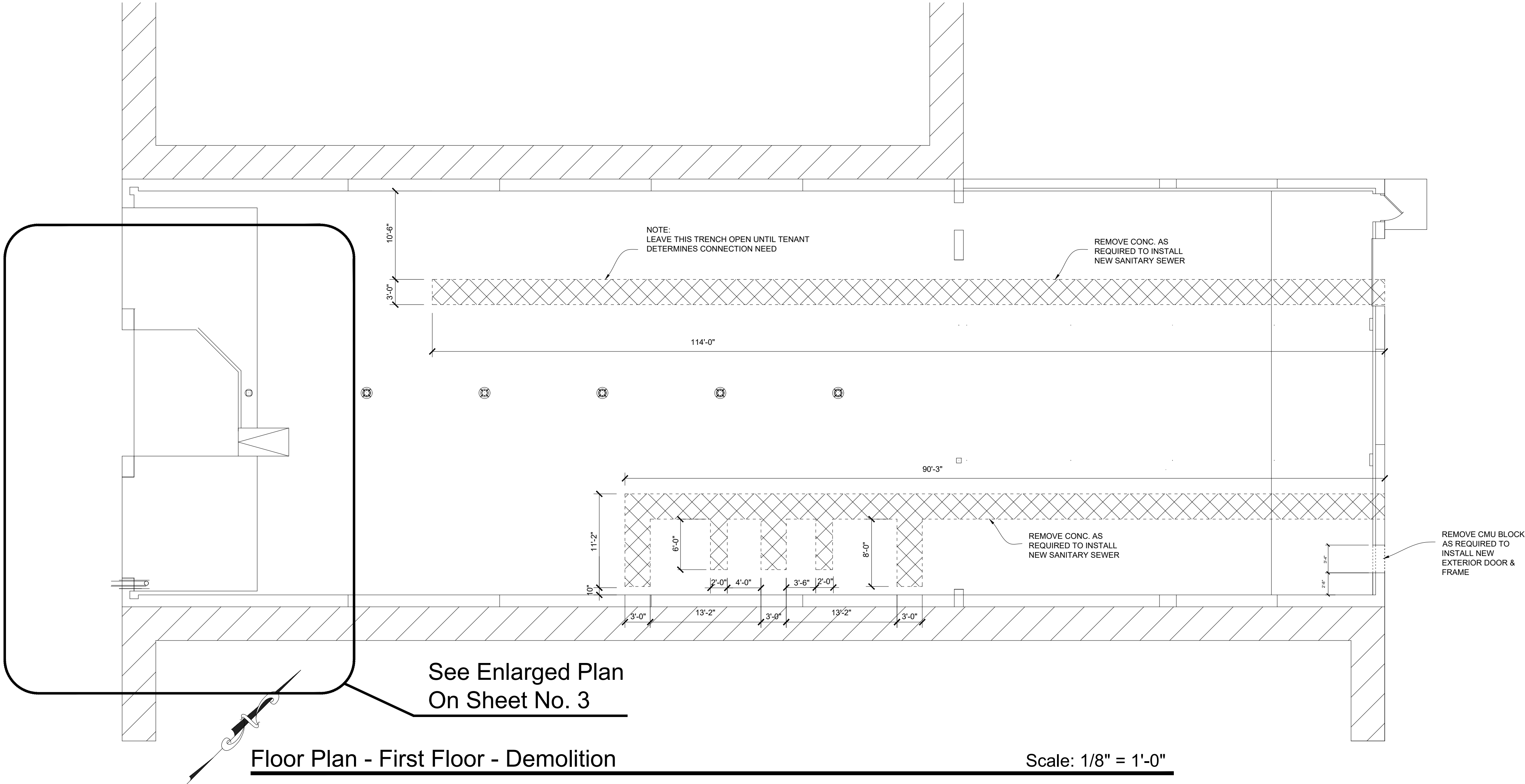
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Dwg. Index &
Code Review

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A White Box Renovation
for
713 Indiana, LLC
713 Indiana
Wichita Falls, TX

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Date:
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Sheet Title:
1st Floor
Demolition
Sheet No.
2 of 30

SAW CUT AND REMOVE SLOPED
CONCRETE AS REQUIRED TO
RESTRUCTURE ENTRY AREA

Concrete Demolition @ Entry

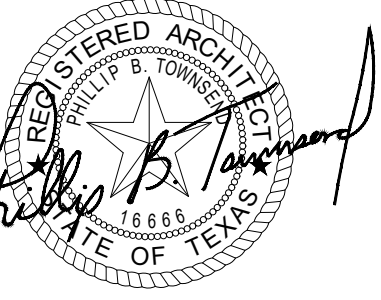
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POUR NEW CONC. TO LEVEL OUT WITH
EXISTING FINISH FLOOR DOWELL INTO
EXISTING SLAB W/#3 BARSx12" @ 16" O.C.
REINFORCE CONC. W/ 2 LAYERS OF
6"x6"x10/10 W.W.F. @ 4" O.C. (TROWEL
FINISH)

POUR NEW CONC. TO LEVEL OUT WITH
EXISTING FINISH FLOOR DOWELL INTO
EXISTING SLAB W/#3 BARSx12" @ 16" O.C.
REINFORCE CONC. W/ 2 LAYERS OF
6"x6"x10/10 W.W.F. @ 4" O.C. (TROWEL
FINISH)

Concrete Repair @ Entry

Scale: 14" = 1'-0"



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@ Entry

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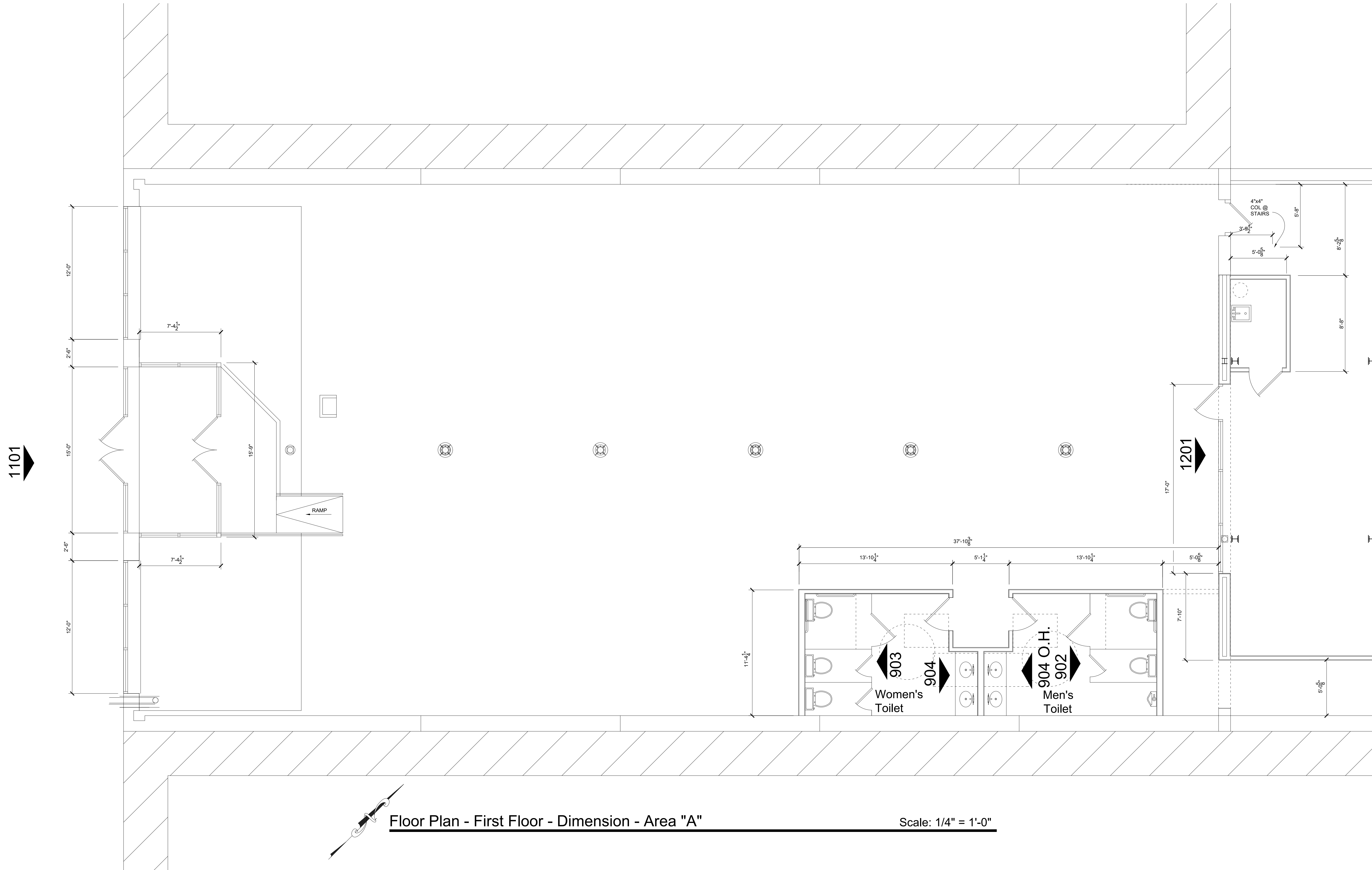

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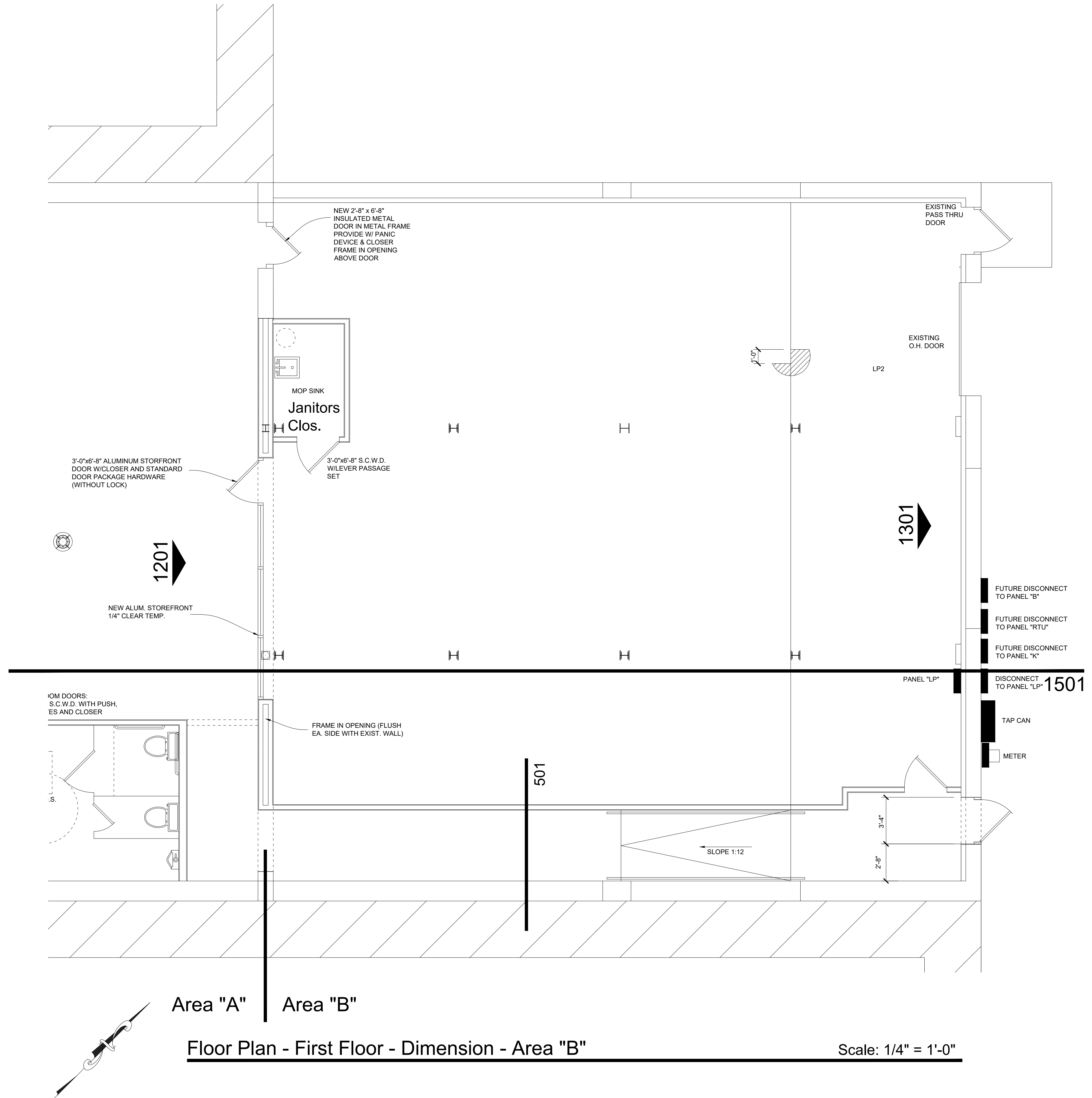
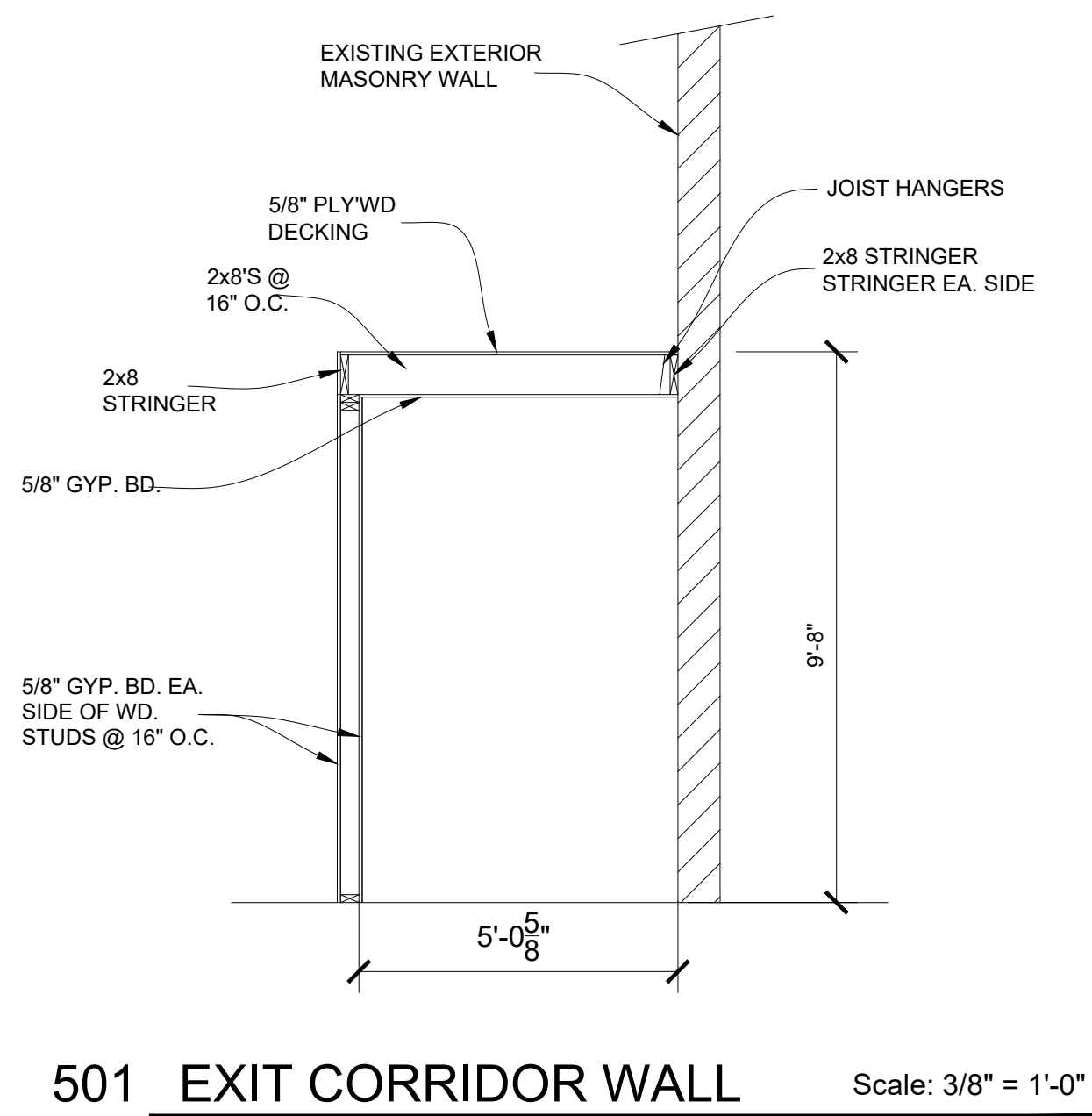
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713 Indiana
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1st Flr. Dim
Area "A"

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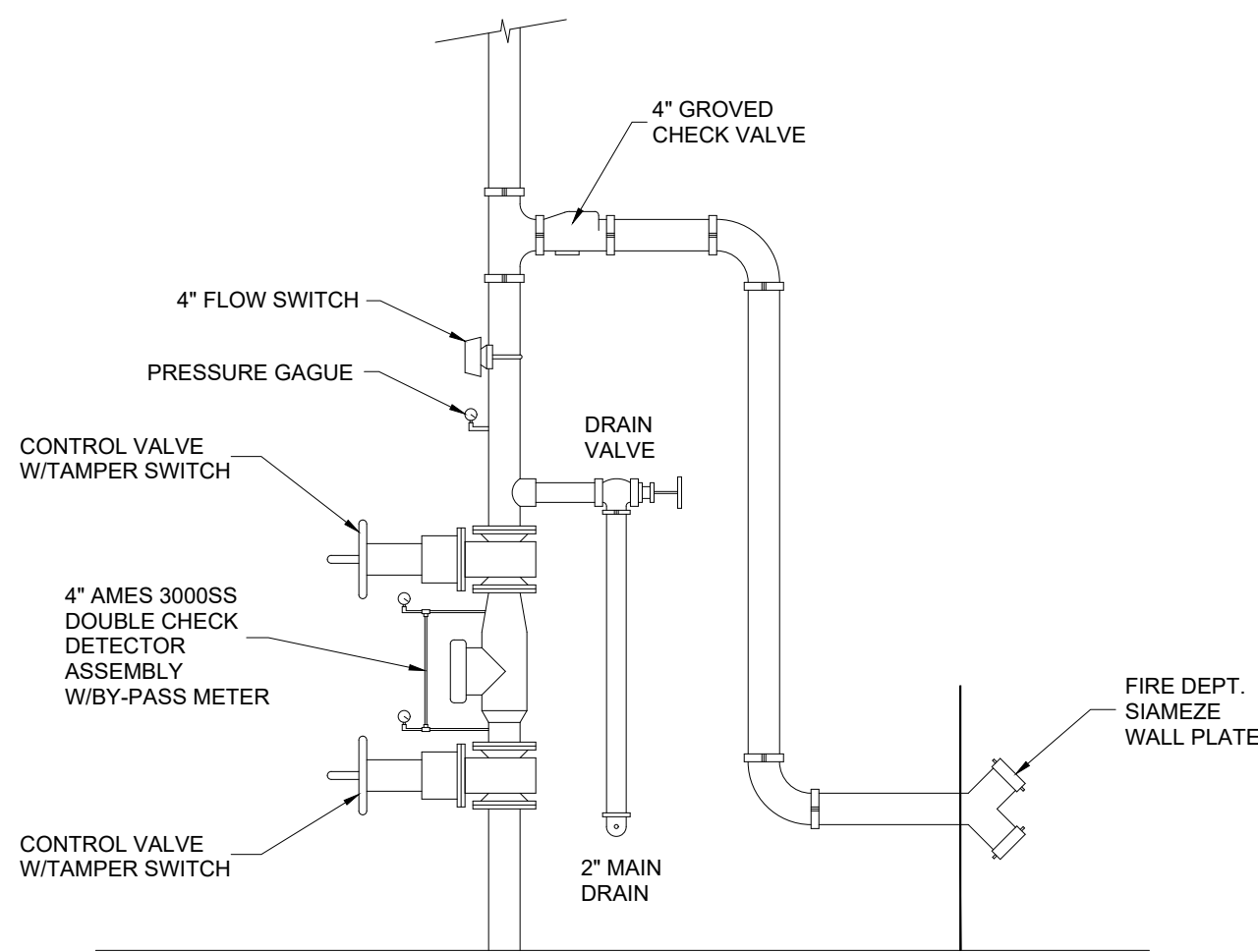
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Area "B"
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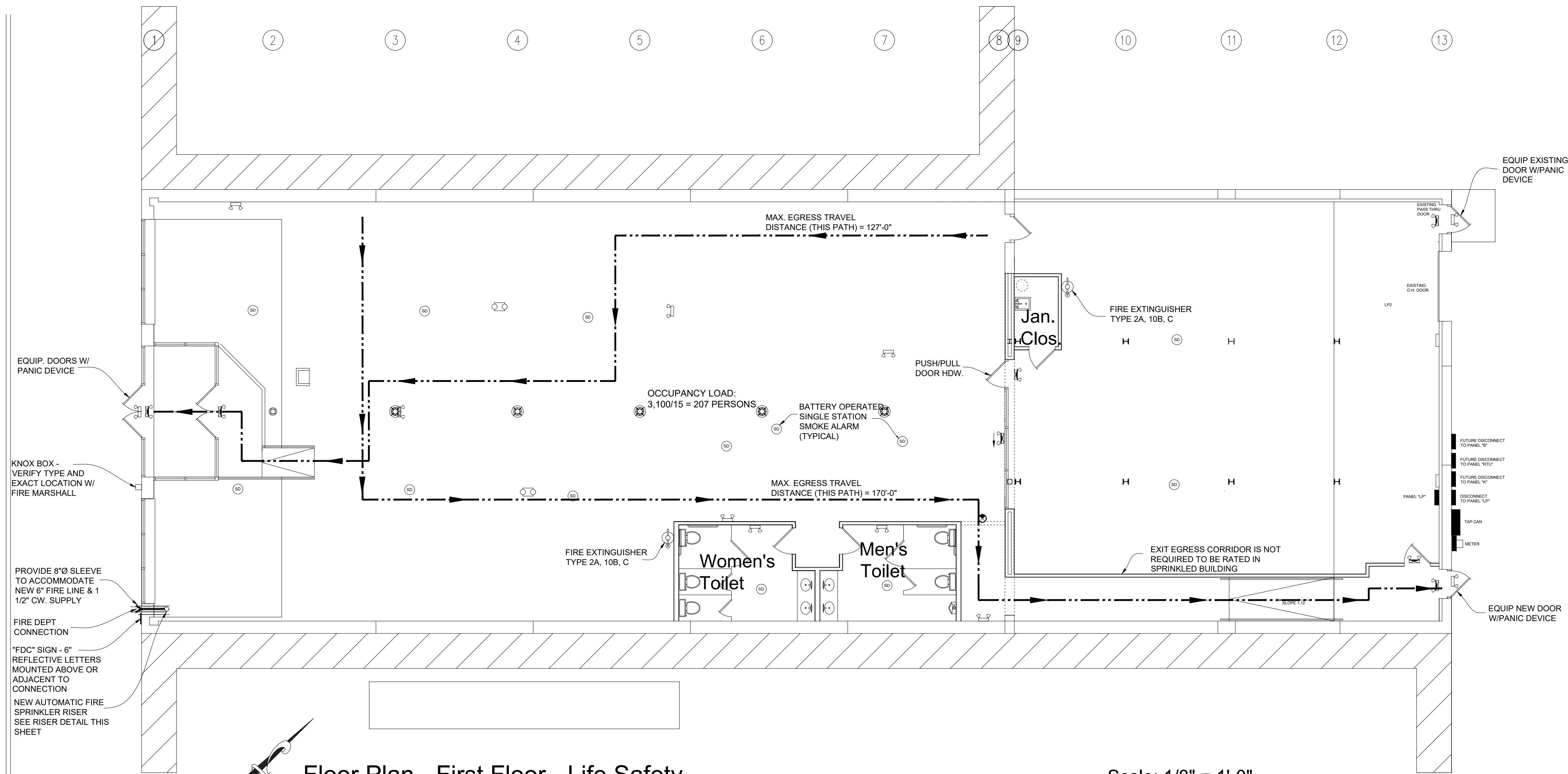


FIRE PROTECTION SYSTEM

BUILDING TO BE FULLY PROTECTED BY AN AUTOMATIC SPRINKLER SYSTEM) DESIGN AND INSTALLATION OF THE SPRINKLER SYSTEM SHALL BE PERFORMED BY A LICENSED SPRINKLER CONTRACTOR AND SHALL MEET THE REQUIREMENTS OF NFPA 13. DETAILS MUST BE PROVIDED INDICATING THE EXTENT OF COVERAGE, TYPE OF SYSTEM TO BE EMPLOYED AND THE AGENT TO BE USED. SHOP DRAWINGS SHALL BE SUBMITTED FOR APPROVAL. DRAWINGS SHALL INCLUDE BUT NOT BE LIMITED TO PIPE MATERIAL, SIZES, LENGTHS, WATER SUPPLY SPECIFICATIONS AND HYDRAULIC CALCULATIONS, ALARMS AND SYSTEM SUPERVISION INFORMATION. THE AUTOMATIC FIRE SUPPRESSION SYSTEM FOR THIS BUILDING SHALL BE CONNECTED TO AN APPROVED CENTRAL STATION, APPROVED PROPRIETARY SYSTEM, REMOTE-STATION SYSTEM OR SUPERVISORY SERVICE IN ACCORDANCE WITH NFPA 72. ALL HANGERS TO BE U.L. LISTED AND F.M. APPROVED HANGER SPACING TO BE IN COMPLIANCE WITH NFPA #13 UPRIGHT SPRINKLER DEFLECTORS ARE NOT TO EXCEED 12" BELOW DECK LINE PRIOR TO STARTING WORK, THIS CONTRACTOR SHALL NOTIFY G.C. IF SPRINKLER HEAD LOCATIONS WILL CONFLICT W/ ELECTRICAL, HVAC OR PLUMBING WORK.

LEGEND

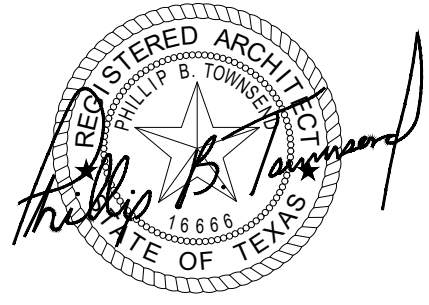
- WALL MOUNTED EMERGENCY EGRESS LIGHT ON 90 BATTERY BACKUP (MTG. HT. MIN. 7'-0" +/- A.F.F.) EXTERIOR LIGHTS SHALL BE WATER PROOF
- WALL MOUNTED EXIT LIGHT W/ EMERG. EGRESS LIGHT ON 90 BATTERY BACKUP (DIRECTIONAL ARROW WHERE INDICATED) MTD. HT. MIN. 7'-0" +/- A.F.F.)
- SURFACE MTD. EGRESS LIGHT ON 90 BATTERY BACKUP
- SURFACE MTD. EXIT LIGHT ON 90 BATTERY BACKUP
- BATTERY OPERATED, SINGLE STATION SMOKE ALARM
- EACH AIR HANDLER UNIT (RTU) SHALL BE EQUIPPED WITH A SMOKE DETECTOR IN THE SUPPLY AIR DUCT THAT WILL SHUT DOWN THE UNIT UPON DETECTION OF SMOKE NOTE: THIS SHALL BE PROVIDE AND INCORPORATED UNDER TENANT FINISH OUT
- FIRE EXTINGUISHERS - STANDARD -TYPE 2A, 10B, C (MAX DISTANCE 75') KITCHEN - TYPE "K" (TO BE PROVIDED UNDER TENANT FINISH OUT)



Floor Plan - First Floor - Life Safety

This Floor 7,250 G.S.F.

Scale: 1/8" = 1'-0"



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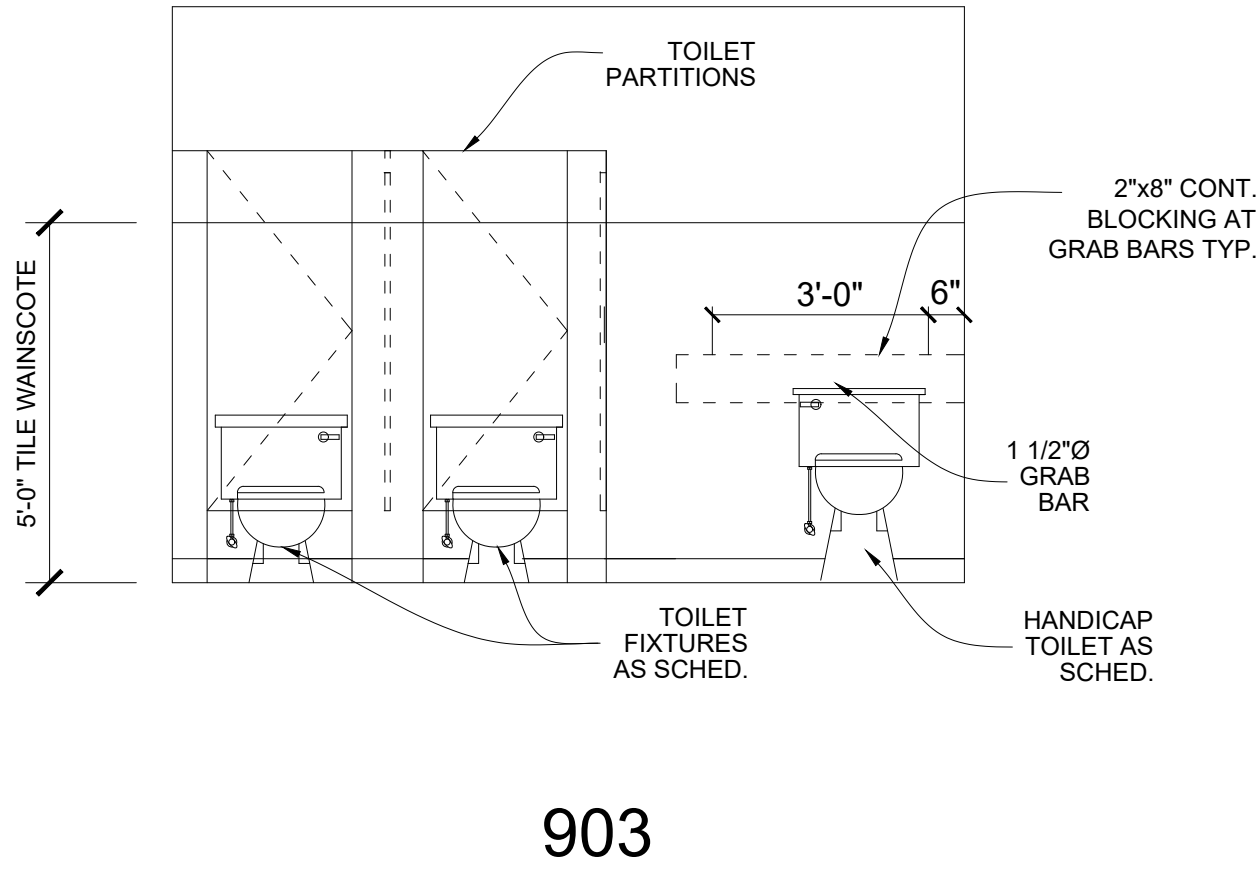
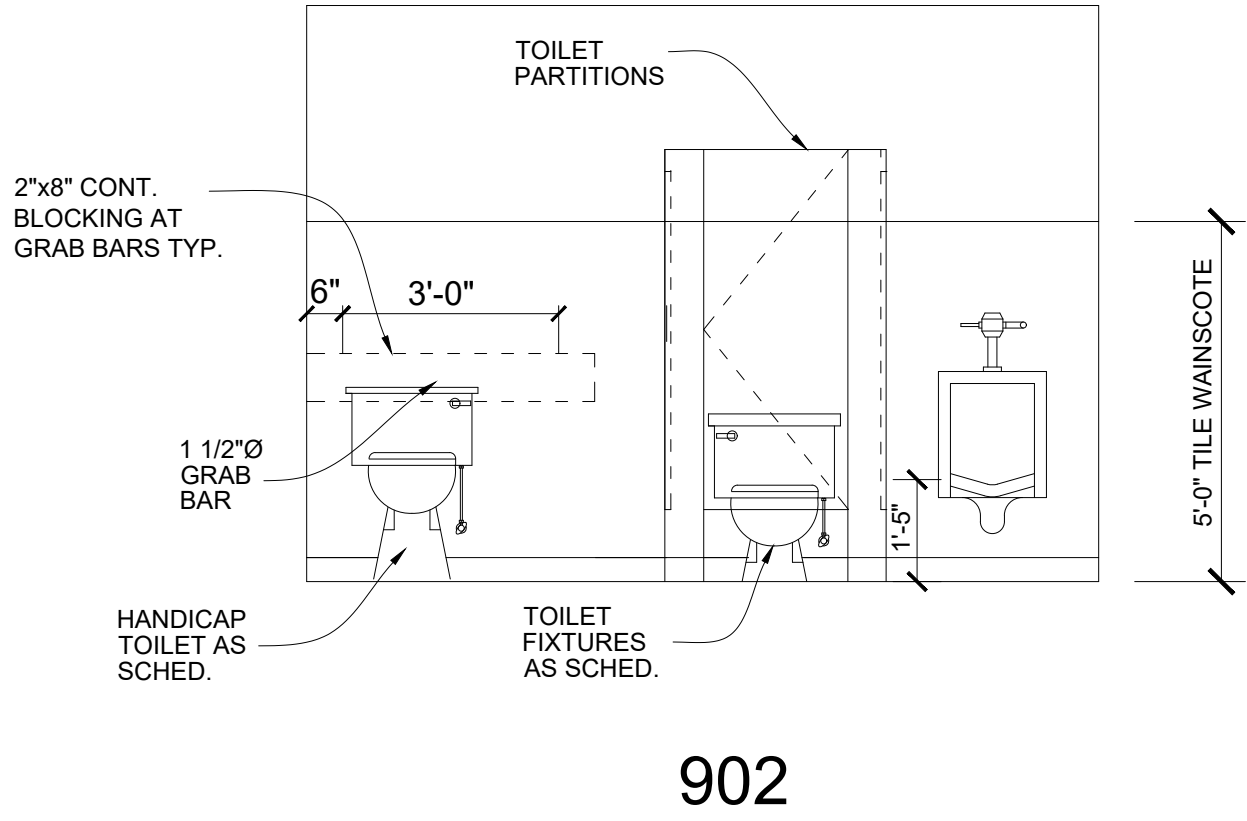
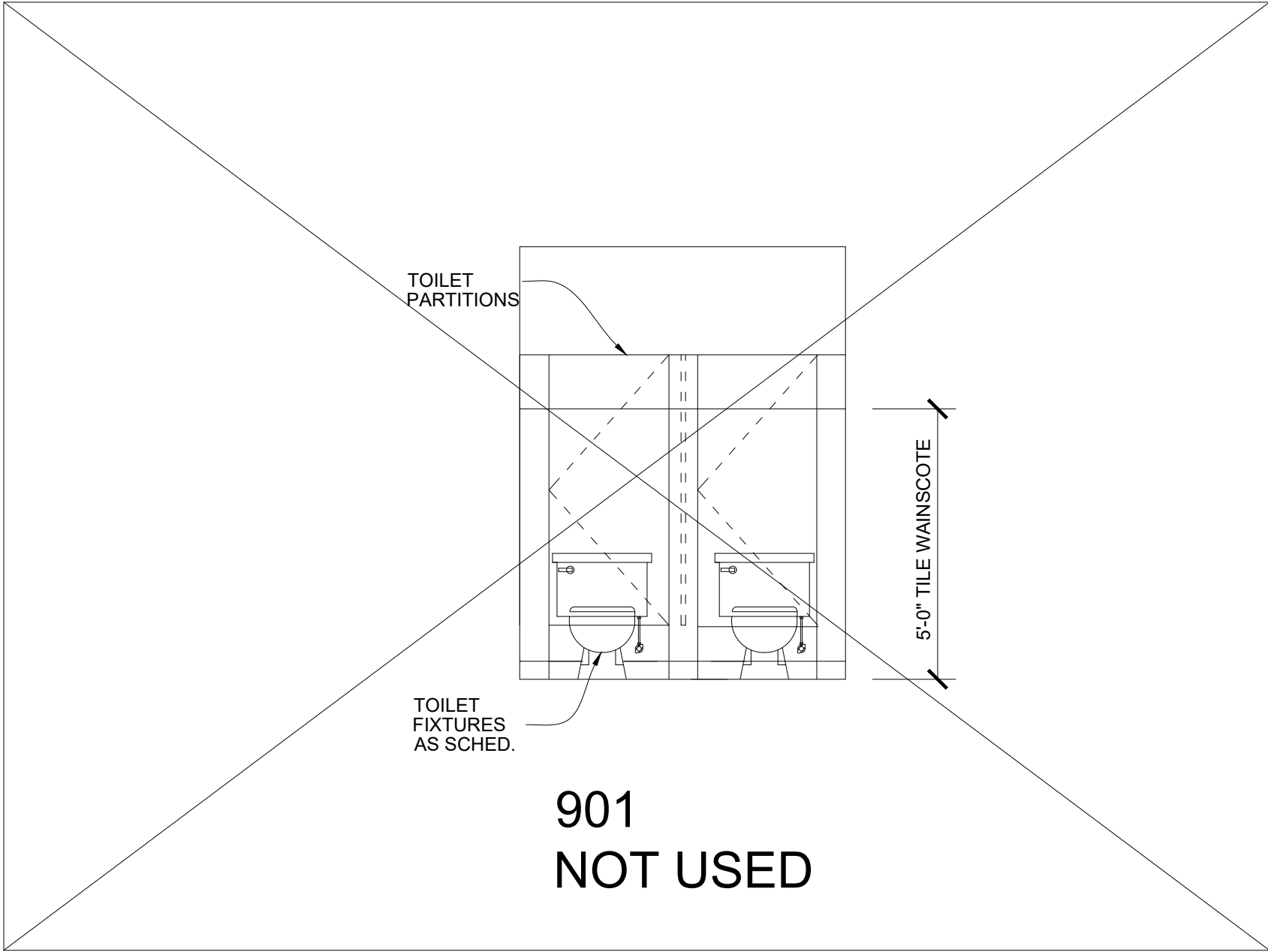
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A White Box Renovation
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713 Indiana
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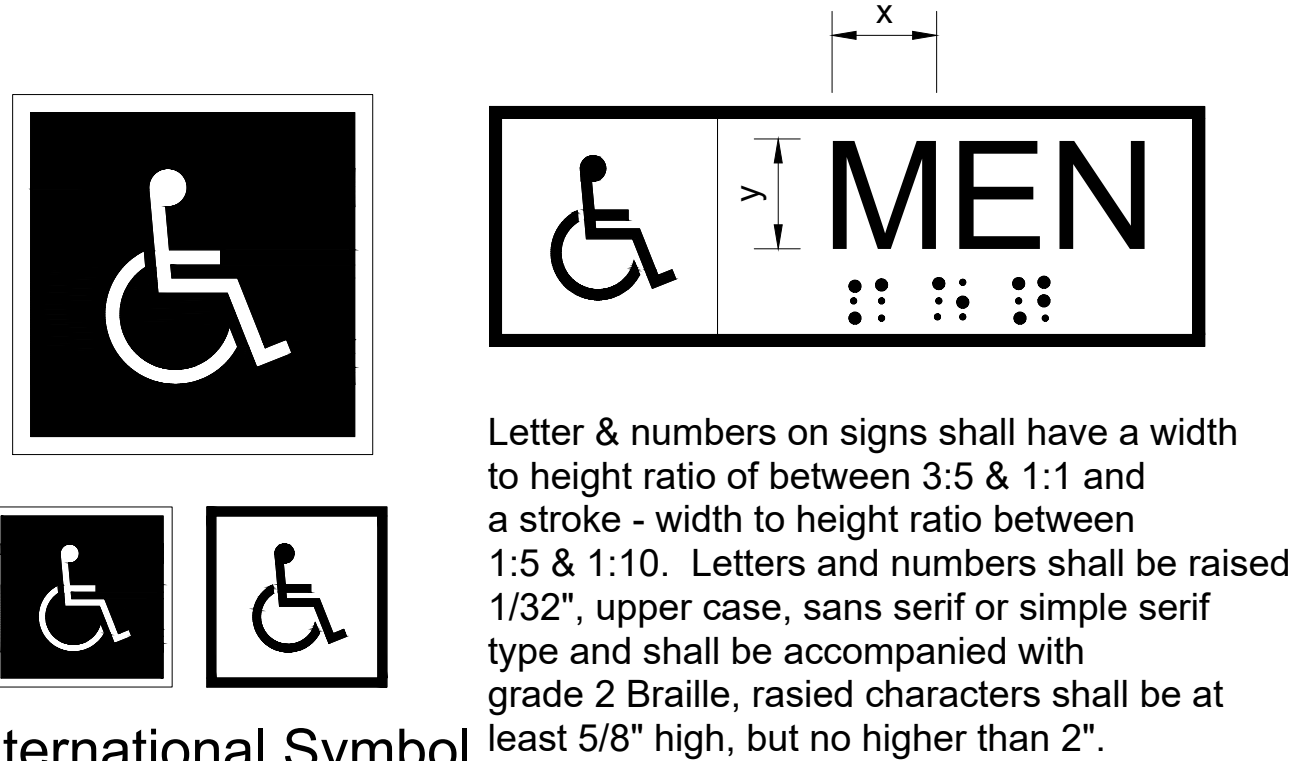
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1st Floor
Life Safety
Sheet No.
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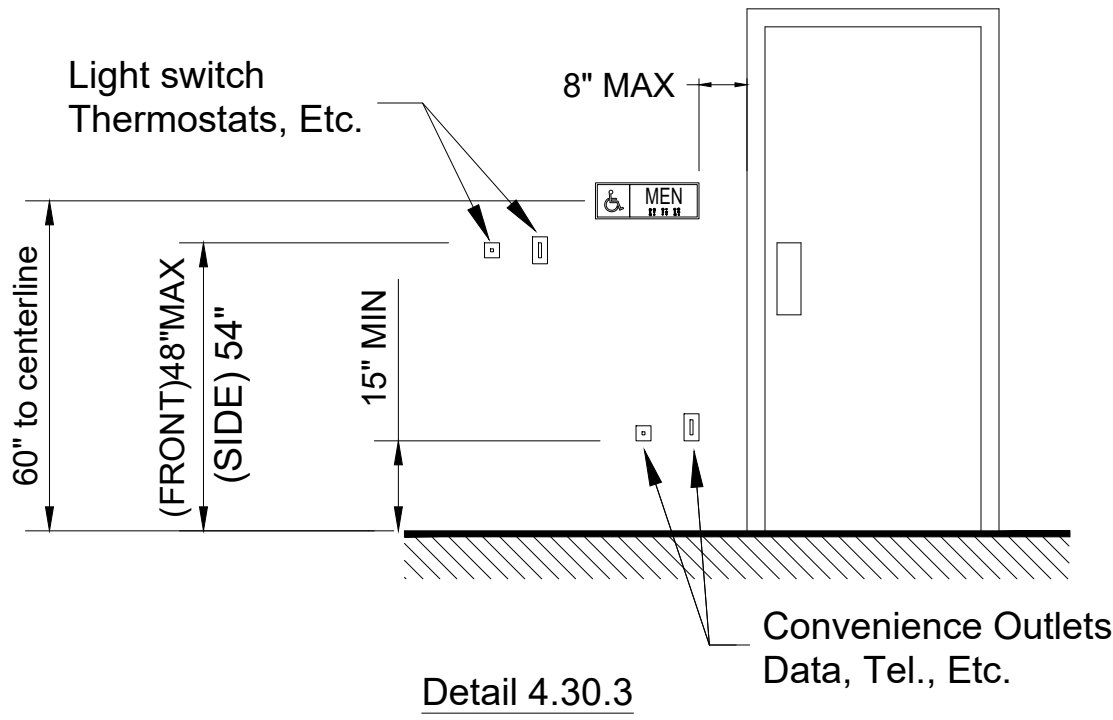
TAS SECTION 4.30.6 - MOUNTING LOCATION AND HEIGHT (REFERENCE DETAIL 4.30.3)

- A. Where permanent identification is provided for rooms and spaces, signs shall be installed on the wall adjacent to the latch side of the door.
- B. Where there is no wall space to the latch side of the door, including at double-leaf doors, signs shall be placed on the nearest adjacent wall.
- C. Mounting height shall be 60" above the finished floor to the centerline of the sign.
- D. Mounting location for such signage shall be so that a person may approach within 3" of signage without encountering protruding objects or standing within the swing of a door.



Detail 4.30.1

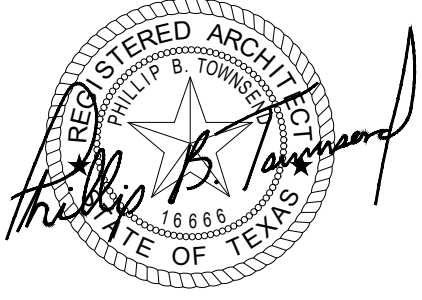
Detail 4.30.2



Detail 4.30.3

Interior Elevations @ Toilet Rooms

Scale: 3/8" = 1'-0"



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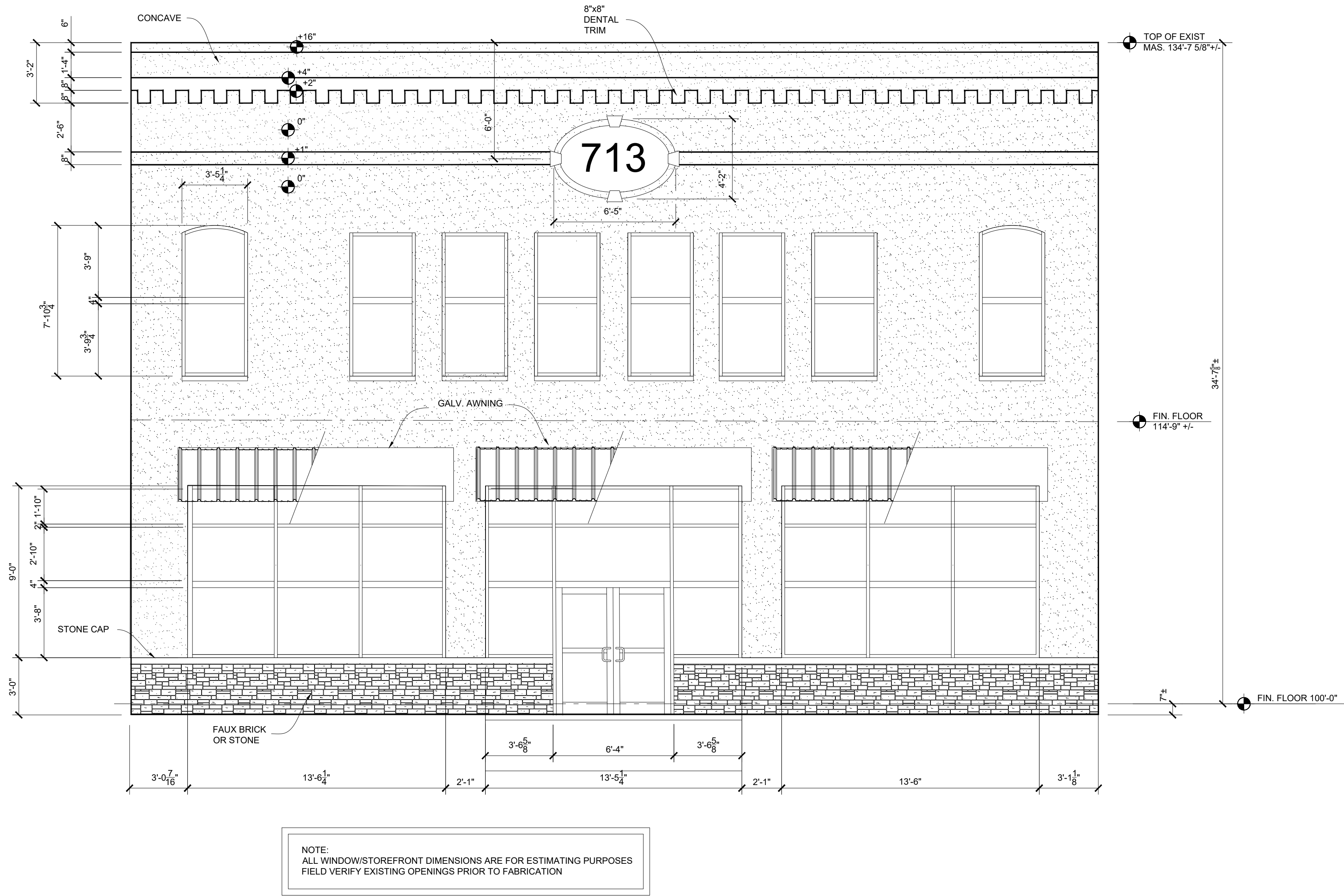
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940-642-3590
Email: pl@vrf.net

A White Box Renovation
for
713 Indiana, LLC
713 Indiana
Wichita Falls, TX

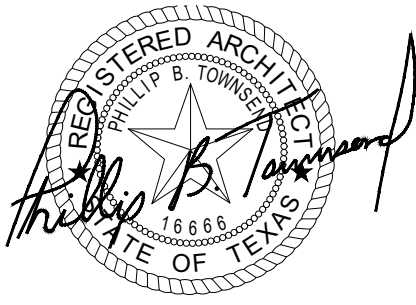
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Sheet Title:
Interior
Elevations
Sheet No.
9 of 30



1101 West (Front) Exterior Elevation

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



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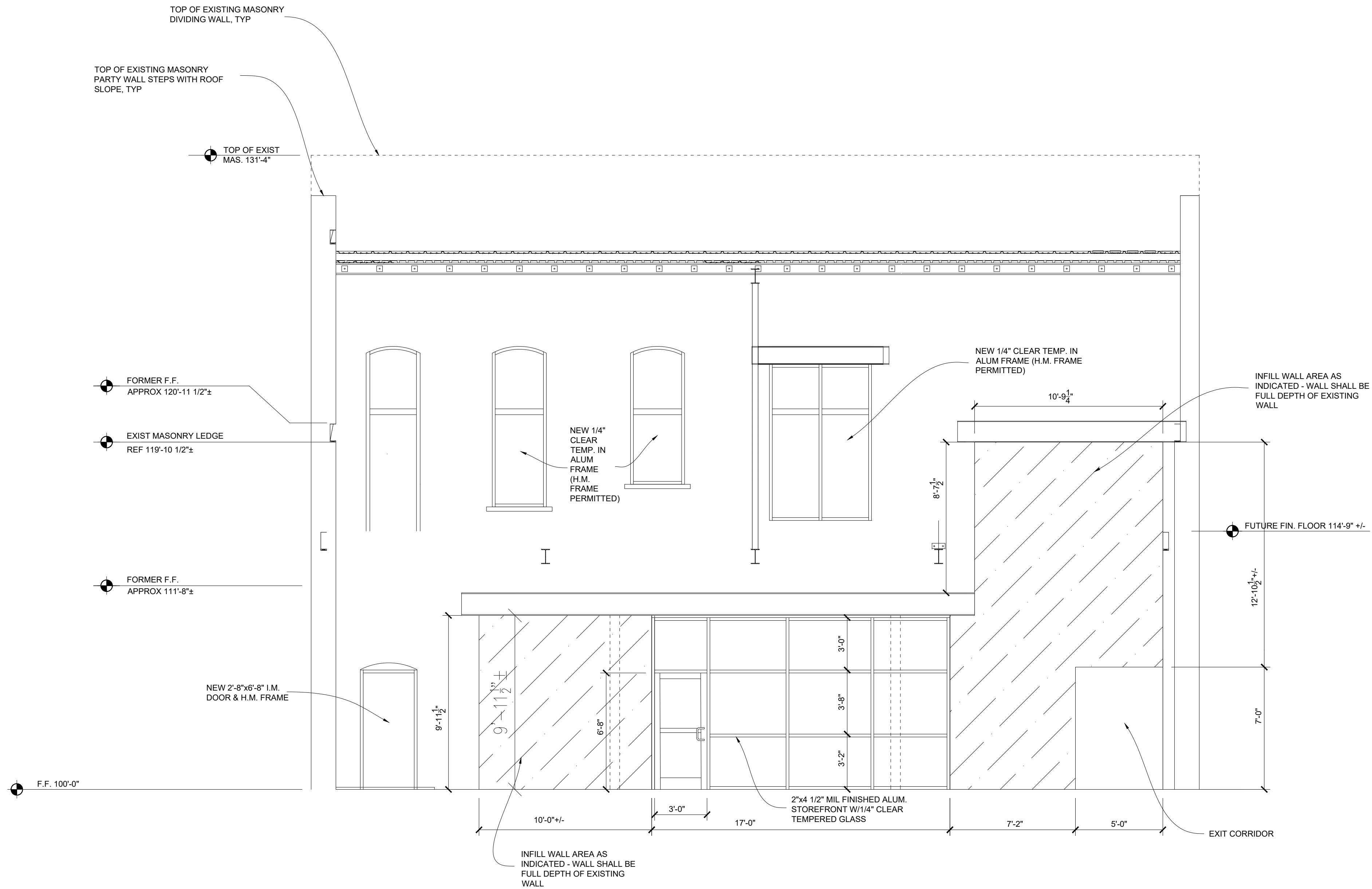
Matthew 7:7
Rom 1:16 1 Cor. 15:1-4 Rom 6:3-6

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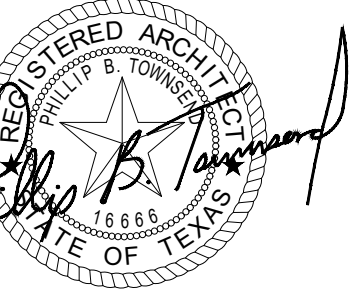
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Sheet Title:
West Elev. @
Front
Sheet No.
11 of 30



1201 West Elevation @ Middle Wall

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



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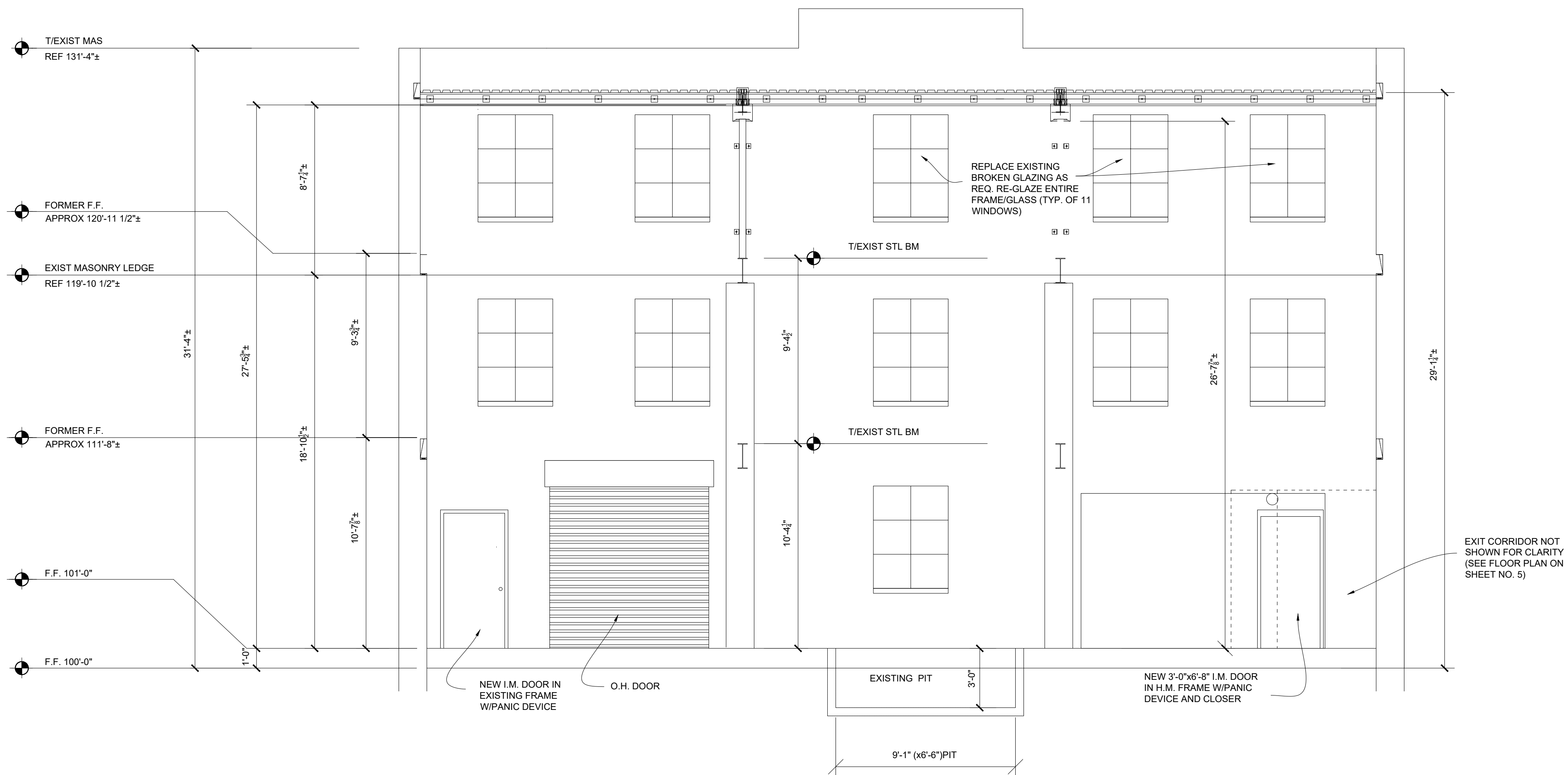
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Matthew 7.7

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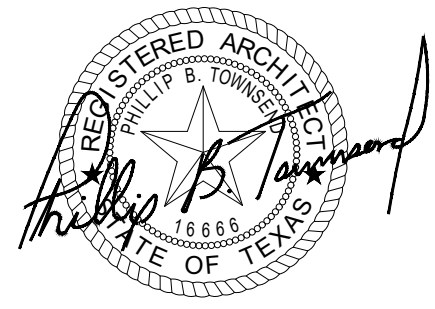
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Sheet Title:
West Elev. @
Middle Wall
Sheet No.
12 of 30



1301 West Elevation of Rear Wall @ Alley

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



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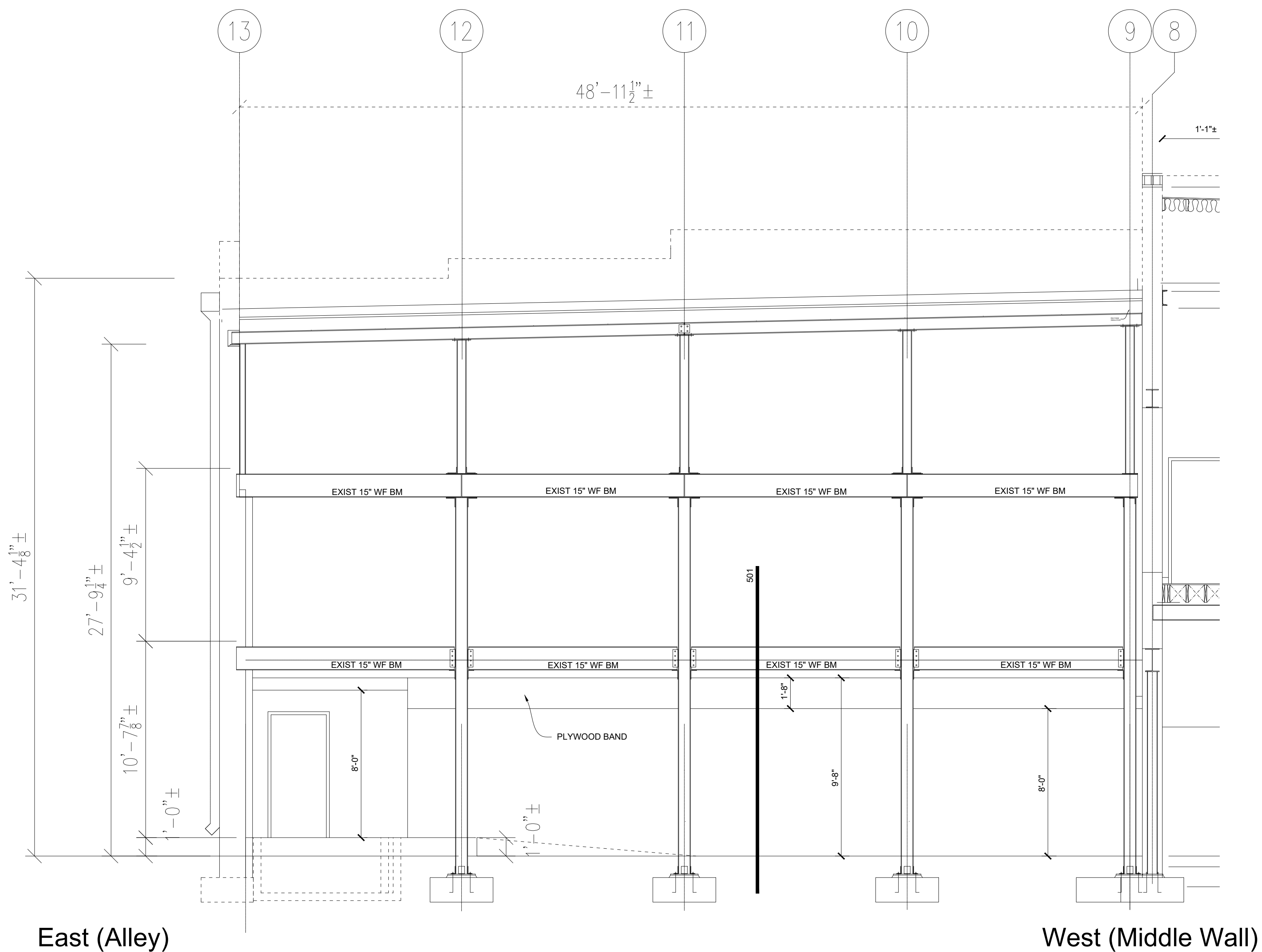
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Sheet Title:
West Elev @
Rear Wall
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13 of 30



1501 Building Section (West to East from Middle Wall Looking South) Scale: 1/4" = 1'-0"



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for
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713 Indiana
Wichita Falls, TX

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Building
Section
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15 of 30



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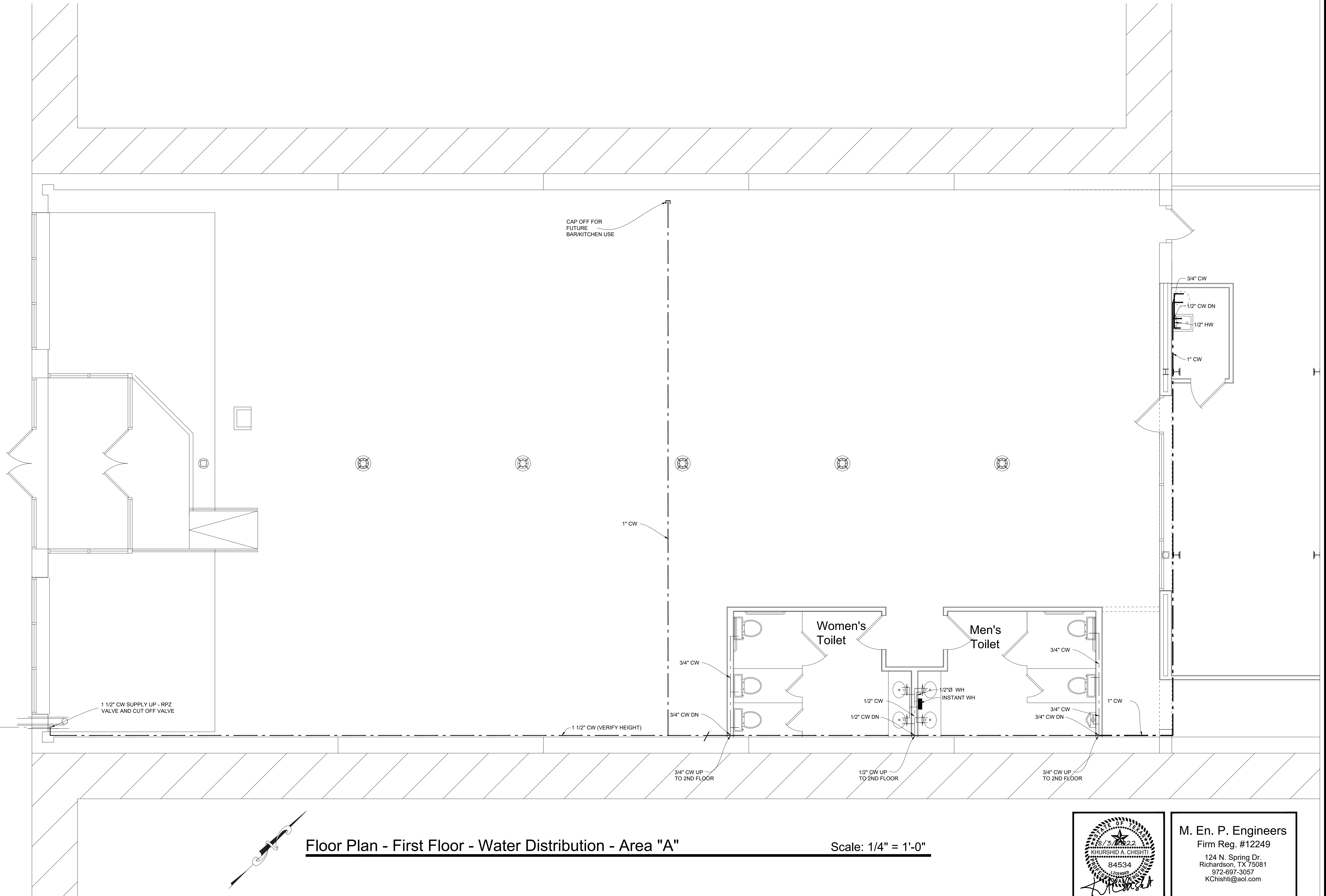
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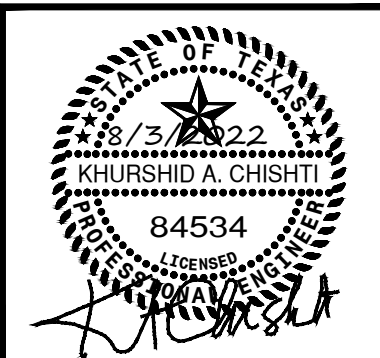
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1st Flr. Water
Area "A"
Sheet No.
17 of 30

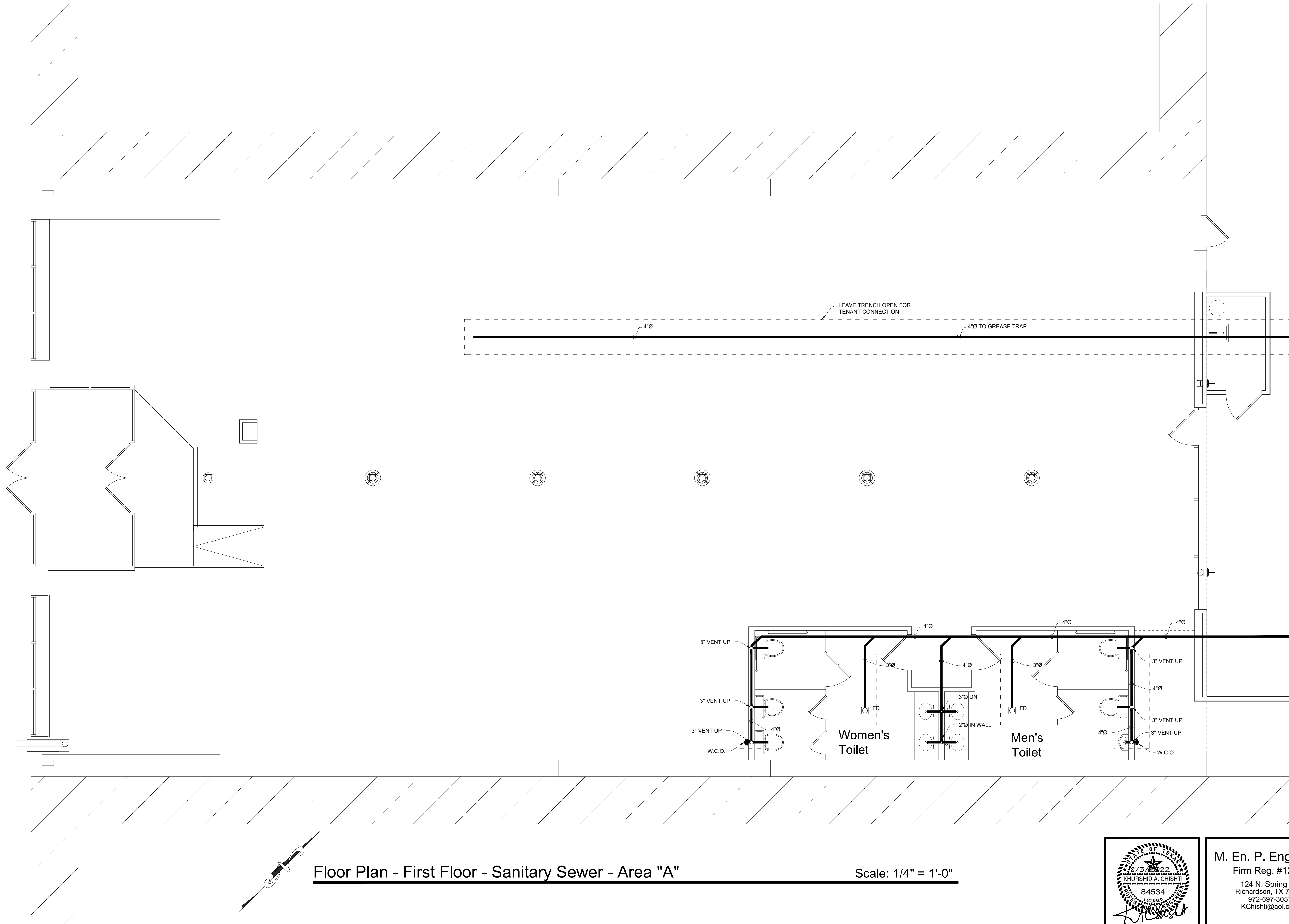


Floor Plan - First Floor - Water Distribution - Area "A"

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



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KChishti@aol.com



Floor Plan - First Floor - Sanitary Sewer - Area "A"

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



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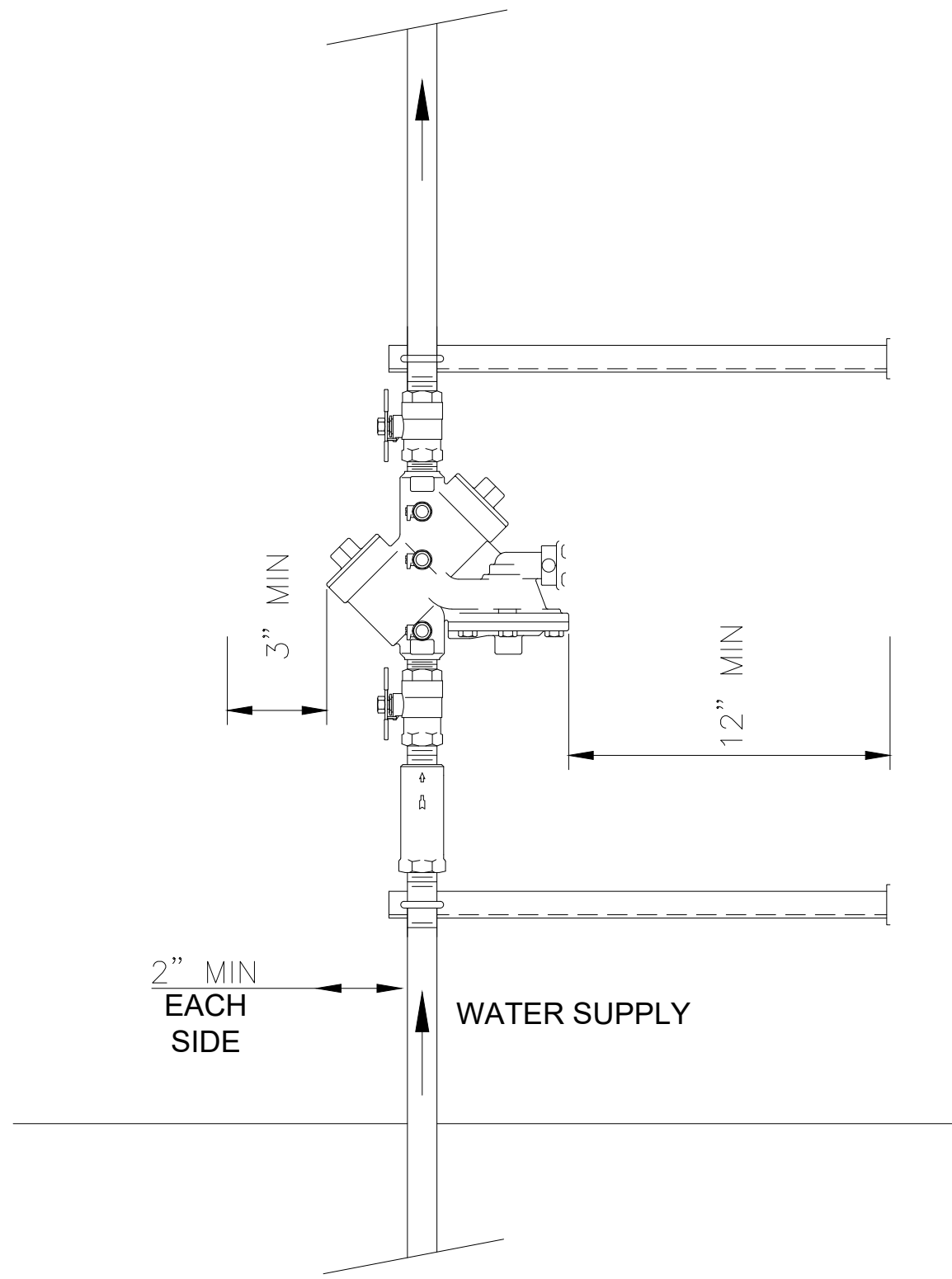
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713 Indiana
Wichita Falls, TX

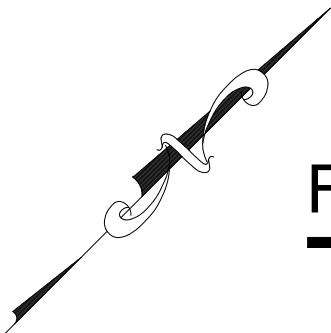
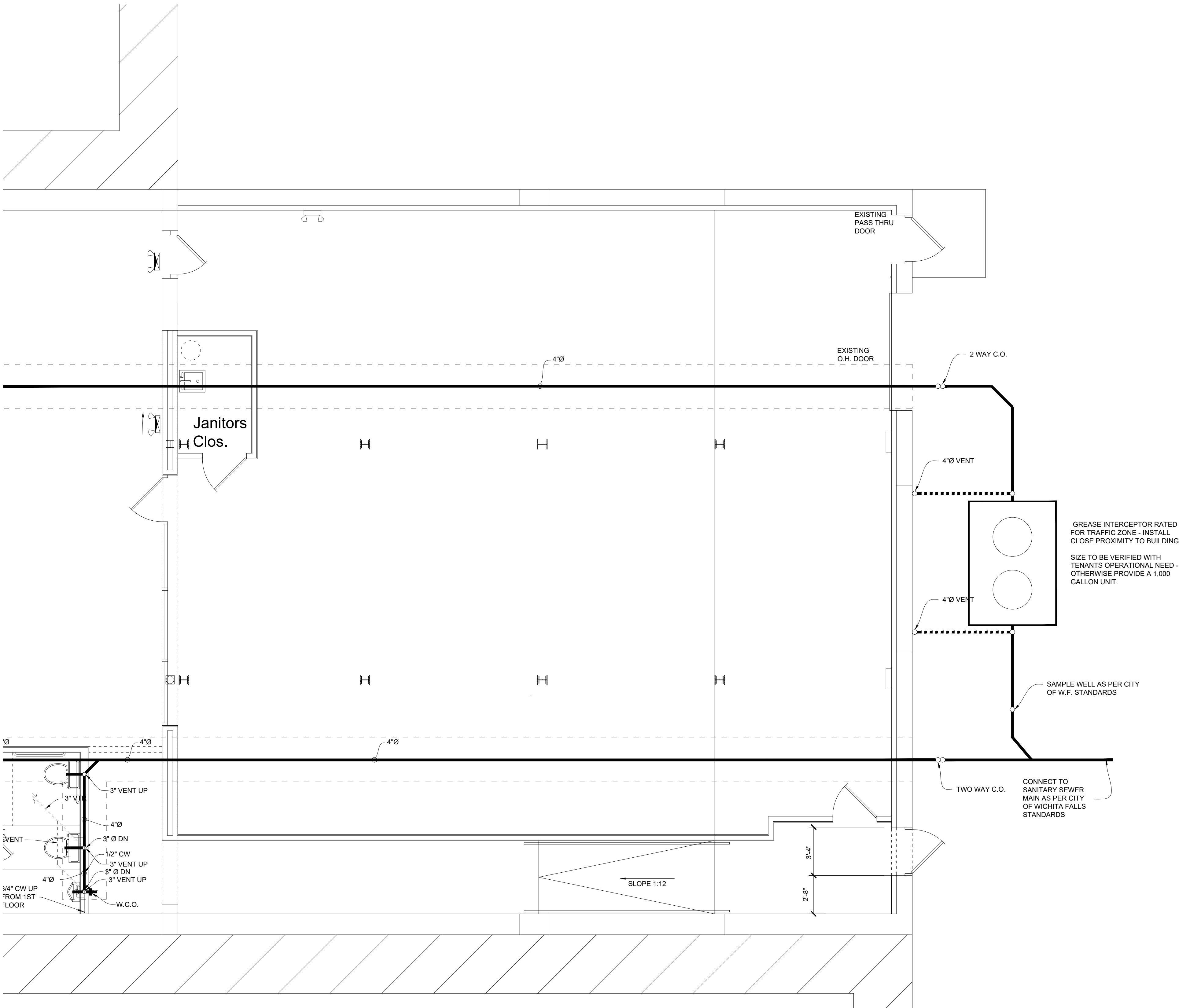
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Sheet Title:
1st. Flr. Sewer
Area "A"
Sheet No.
18 of 30



RPZ Valve Detail

- GENERAL NOTES:**
1. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CITY OF WICHITA FALLS STANDARD SPECIFICATIONS FOR WATER & SEWER CONSTRUCTION, LATEST EDITION.
 2. THE ASSEMBLY SHALL MEET THE REQUIREMENTS OF ASSE 1013, REDUCED PRESSURE ZONE (RPZ) BACKFLOW PREVENTER ASSEMBLY(BPA);IN A SIZE TO MATCH THAT OF THE REQUIRED METER AND/OR SERVICE PIPING, AND SHALL CONFORM TO ALL CURRENT REQUIREMENTS OF THE UNIVERSITY OF SOUTHERN CALIFORNIA, FOUNDATION FOR CROSS-CONNECTION CONTROL & HYDRAULIC RESEARCH (USC-CCCHR).
 3. ANY VARIATIONS FROM THIS DETAIL MUST BE APPROVED BY WICHITA FALLS WATER UTILITIES.
 4. IF THIS BACKFLOW ASSEMBLY IS FOR CONTAINMENT, OR PREMISE ISOLATION, OWNER ACKNOWLEDGES THAT IT'S PRESENCE ON THE PROPERTY DOES NOT DIMINISH, MITIGATE OR REMOVE OWNER'S OBLIGATION TO SATISFY THE ISOLATION OR POINT OF USE REQUIREMENTS LAID OUT IN TITLE 30, CHAPTER 290 OF THE ADMINISTRATIVE CODE AND OR OTHER RELEVANT GUIDELINES REQUIRED BY THE STATE OF TEXAS OR THE CITY OF WICHITA FALLS.
 5. IT IS THE RESPONSIBILITY OF ANY PERSON WHO OWNS OR CONTROLS PROPERTY TO ELIMINATE THE POSSIBILITY OF THERMAL EXPANSION IF A CLOSED SYSTEM HAS BEEN CREATED BY THE INSTALLATION OF A BACKFLOW ASSEMBLY.
- LOCATION:**
6. THE ENCLOSURE SHALL BE LOCATED ON THE OWNER'S PROPERTY IN ACCORDANCE WITH DETAIL BF-H OR DETAIL BF-I IN A LOCATION ACCESSIBLE TO CITY PERSONNEL FOR INSPECTION.
 7. THERE SHALL BE NO TAPS, PIPE BRANCHES, UNAPPROVED BYPASS PIPING, HYDRANTS, FIRE DEPARTMENT CONNECTION POINTS, OF OTHER WATER-USING APPURTENANCES CONNECTED TO THE SUPPLY LINE BETWEEN ANY WATER METER AND ITS COA REQUIRED BPA.
- INSTALLATION:**
1. PIPE MATERIAL AND FITTINGS SHALL BE AS SPECIFIED IN CITY OF WICHITA FALLS STANDARDS AND SPECIFICATIONS.
 2. ISOLATION VALVES ARE SPECIFIC TO EACH APPROVED BPA AND NO SUBSTITUTION OF ISOLATION VALVES ARE PERMITTED.
 3. SUPPORT FOR ASSEMBLY SHALL BE DESIGNED BY OWNER SUCH THAT ASSEMBLY WEIGHT DOES NOT DESTABILIZE STRUCTURAL INTEGRITY AND SHALL NOT BLOCK RELIEF VALVE ON DRAIN PORT.
- TESTING**
4. EACH REQUIRED BACKFLOW PREVENTER MUST BE TESTED BY A CITY OF WICHITA FALLS -APPROVED CERTIFIED TESTER PRIOR TO PLACING THE WATER SYSTEM IN SERVICE.
 5. ALL RPZ-BFP ASSEMBLIES SHALL BE TESTED AT TIME OF INSTALLATION AND AT LEAST ANNUALLY THEREAFTER. A COPY OF ALL TEST AND MAINTENANCE REPORTS MUST BE SUBMITTED TO THE CITY OF WICHITA FALLS WATER DEPARTMENT.
- MAINTENANCE**
6. MAINTENANCE AND UPKEEP OF ALL BACKFLOW PREVENTION EQUIPMENT SHALL BE THE RESPONSIBILITY OF THE PROPERTY OWNER.

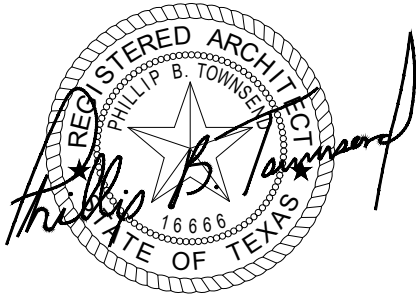


Floor Plan - First Floor - Sanitary Sewer - Area "B"

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



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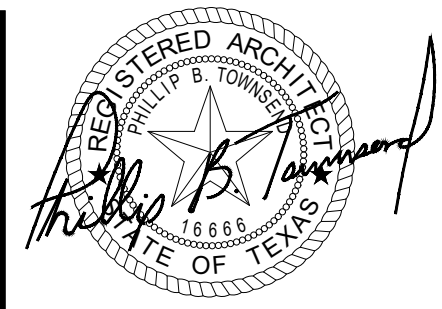
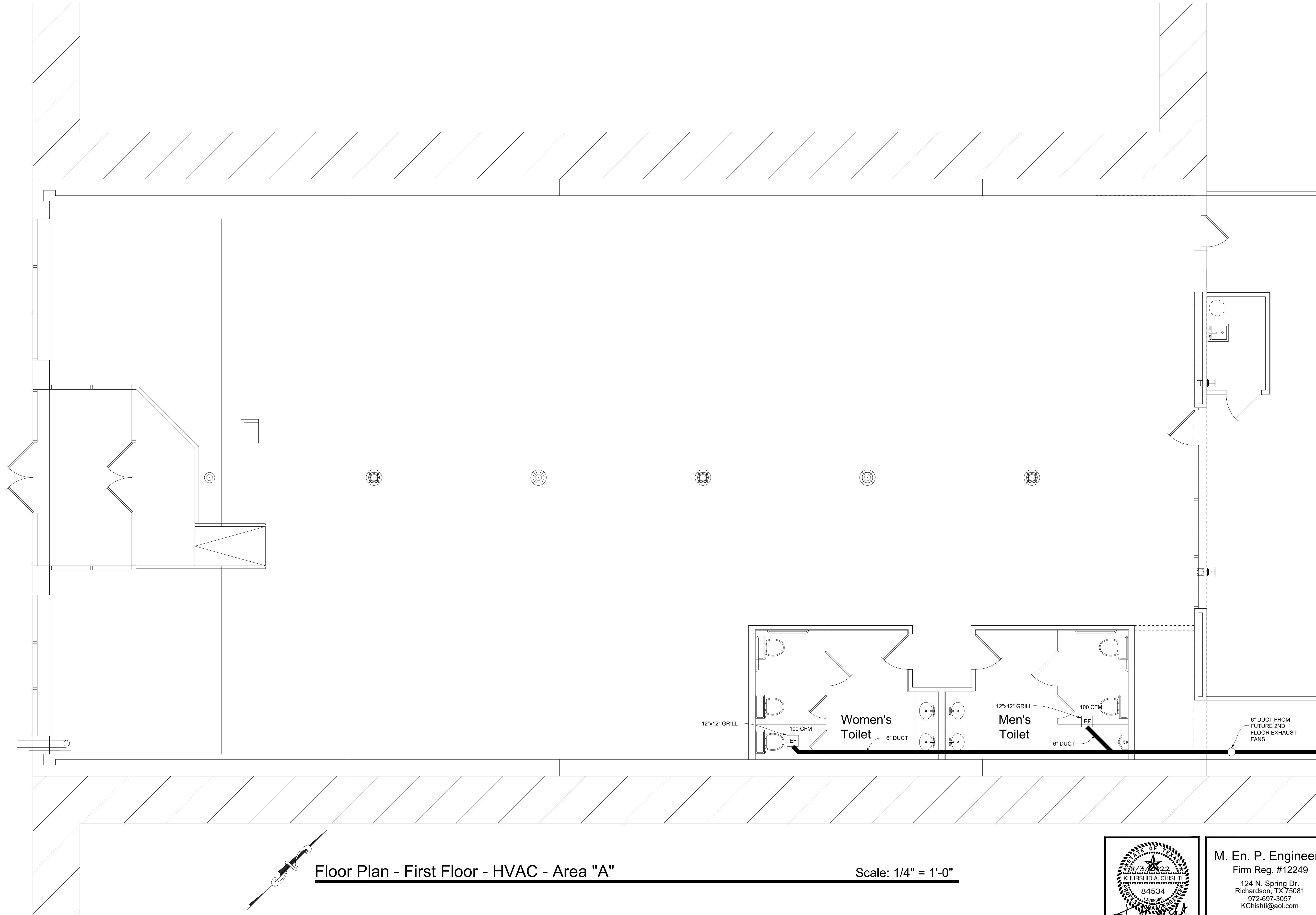
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Sheet Title:
1st. Flr. Sewer
Area "B"
Sheet No.
19 of 30



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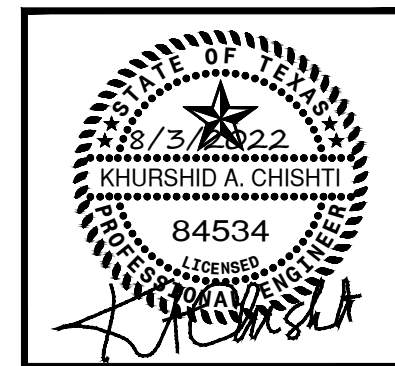
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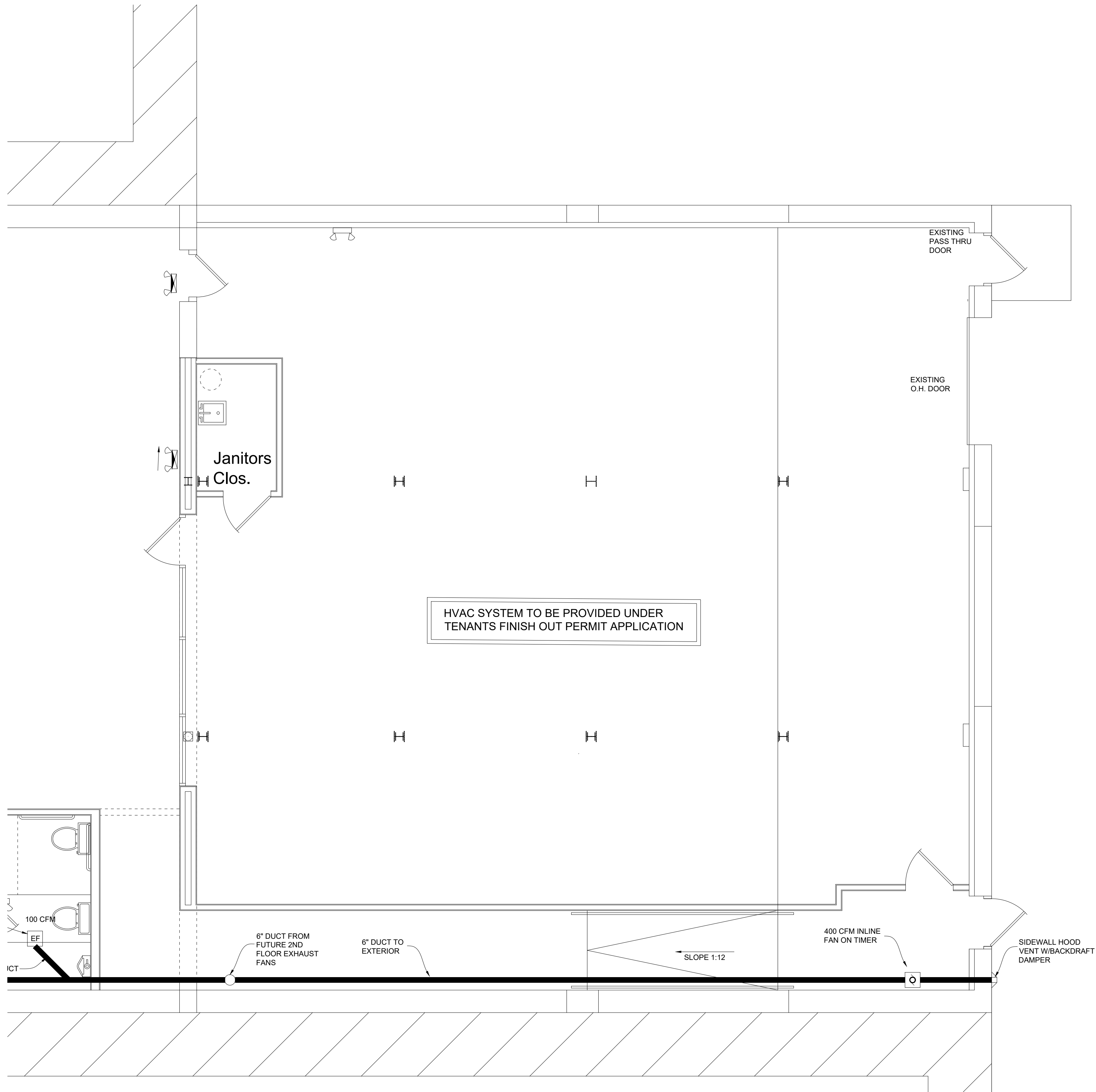
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Date: July 2022
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Sheet Title:
1st Flr. HVAC
Area "A"
Sheet No.
21 of 30

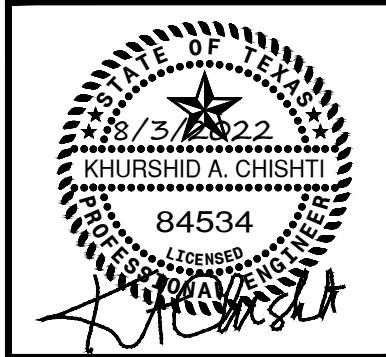


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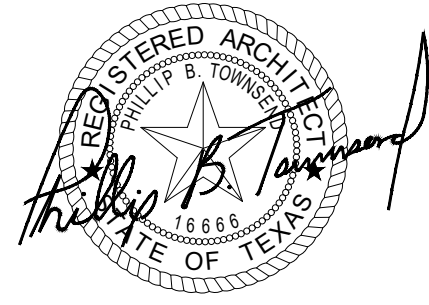


Floor Plan - First Floor - HVAC - Area "B"

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



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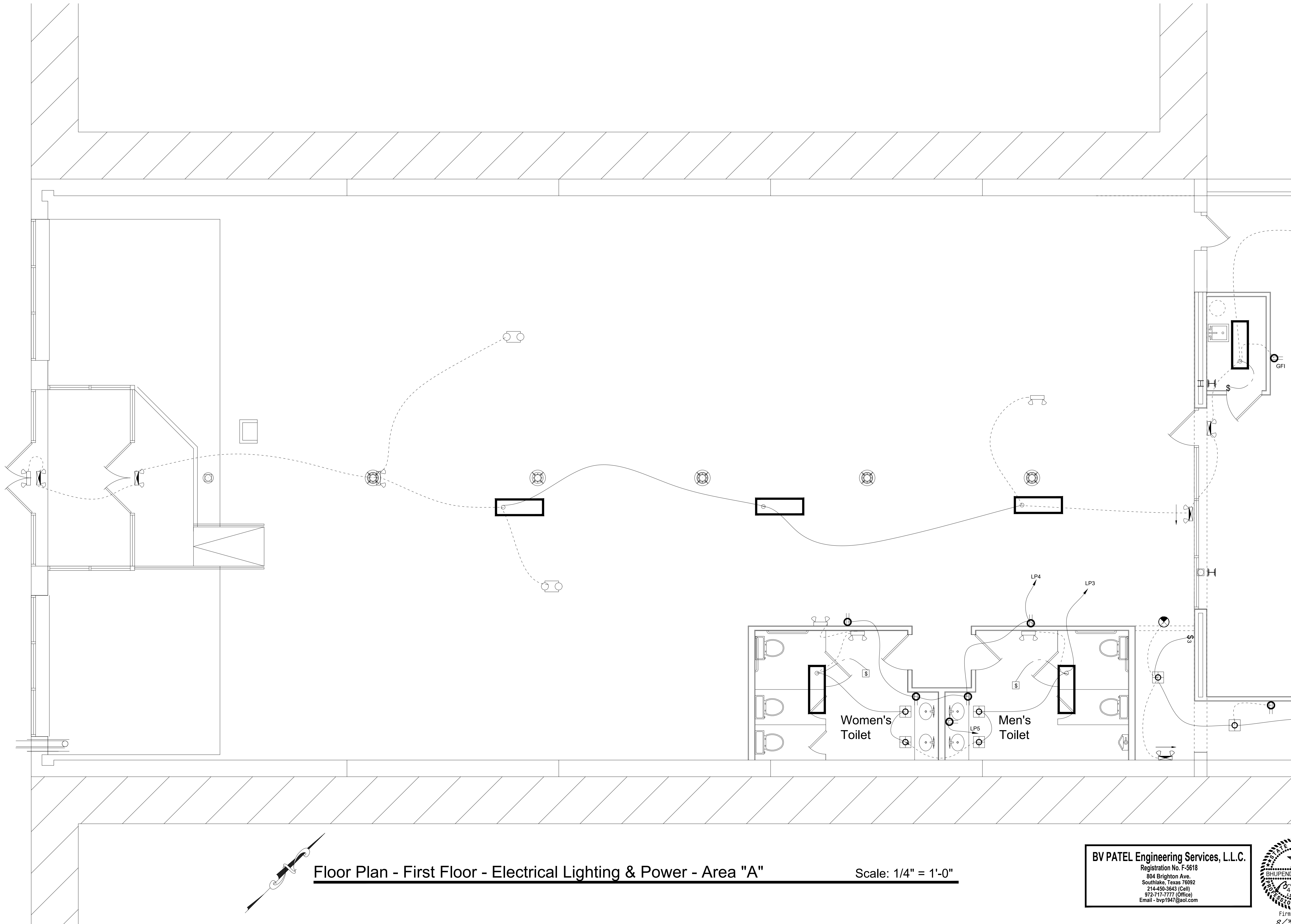
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Area "B"

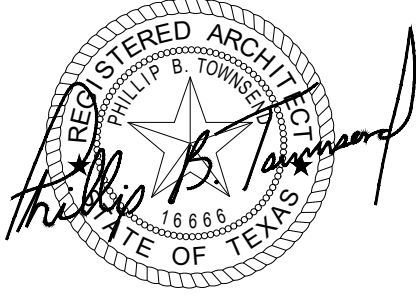
Sheet No.
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Floor Plan - First Floor - Electrical Lighting & Power - Area "A"

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

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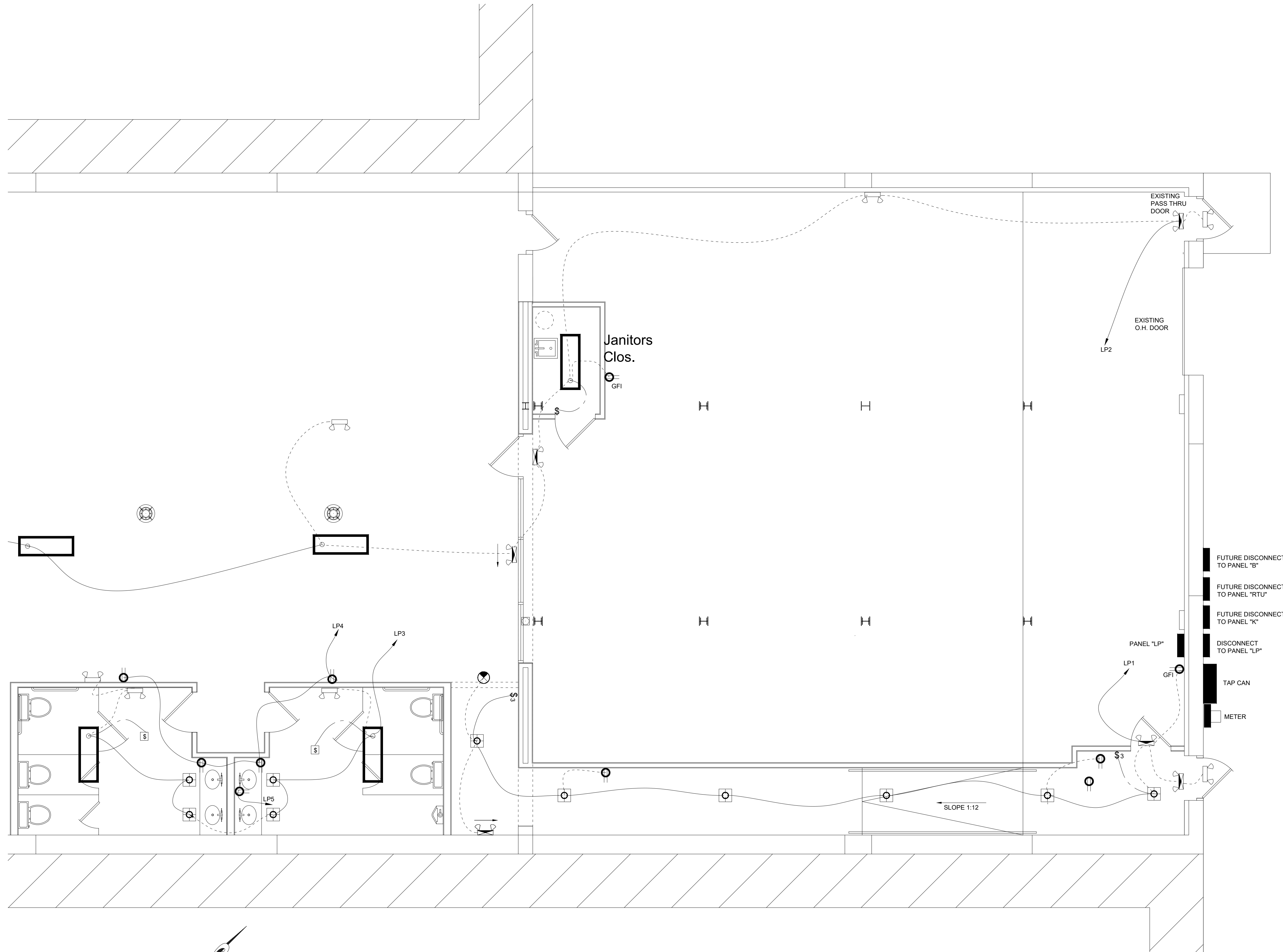
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Sheet Title:
1st Flr. Light
& Pwr Area "A"
Sheet No.
24 of 30



Floor Plan - First Floor - Electrical Lighting & Power - Area "B"

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

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8/3/2022

7/25/2022

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Matthew 7.7
Rom 1:16 1 Cor. 15:1-4 Rom 6:3-6

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A White Box Renovation
for
713 Indiana, LLC
713 Indiana
Wichita Falls, TX

Matthew 7.7

Job No.

Date:
July 2022
Drawn By:
PT

Sheet Title:
1st Flr. Light
& Pwr Area "B"

Sheet No.
25 of 30



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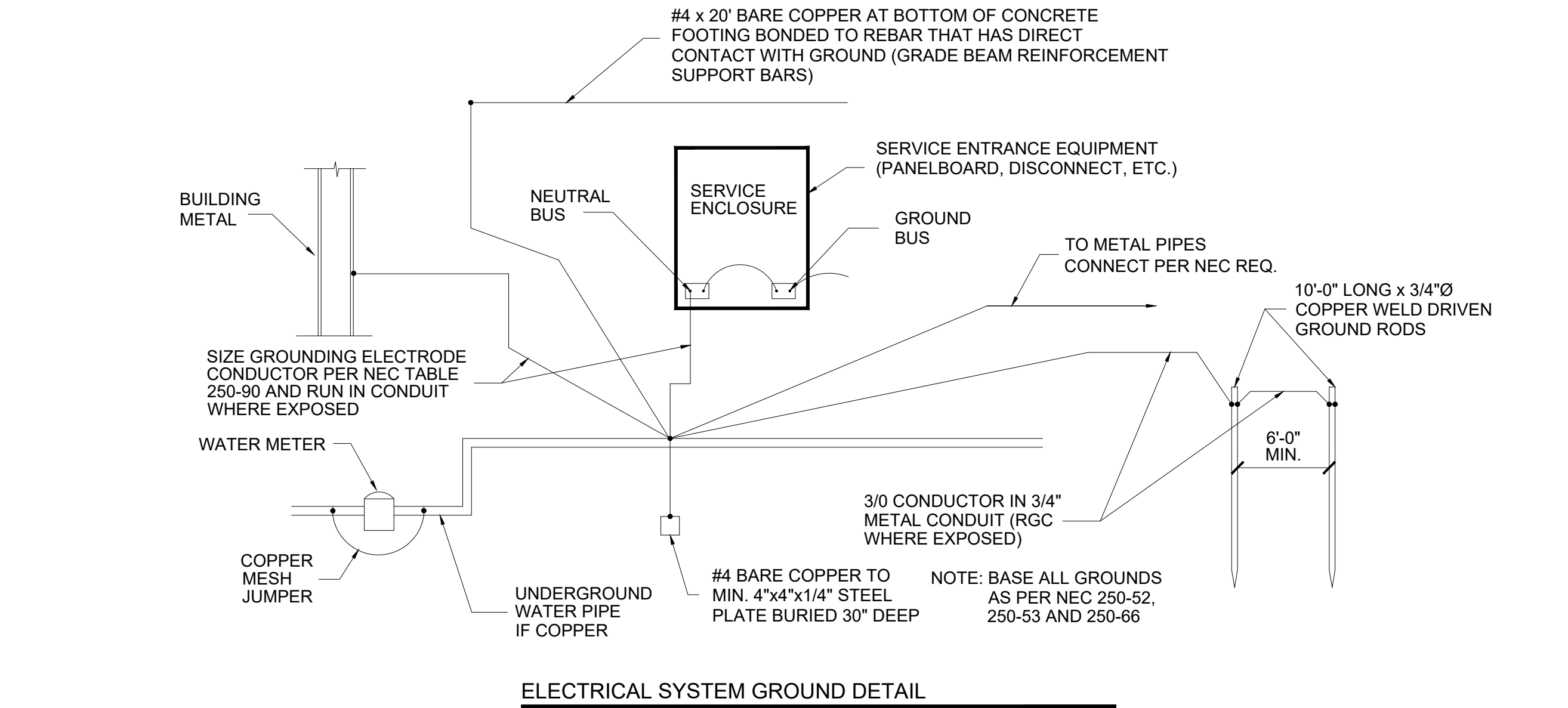
Phillip B. Townsend, R.A.
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940-642-3590
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A White Box Renovation
for
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Job No. ---
Date: July 2022
Drawn By: PT

Sheet Title:
Panel Sched. & Riser
Sheet No.
27 of 30

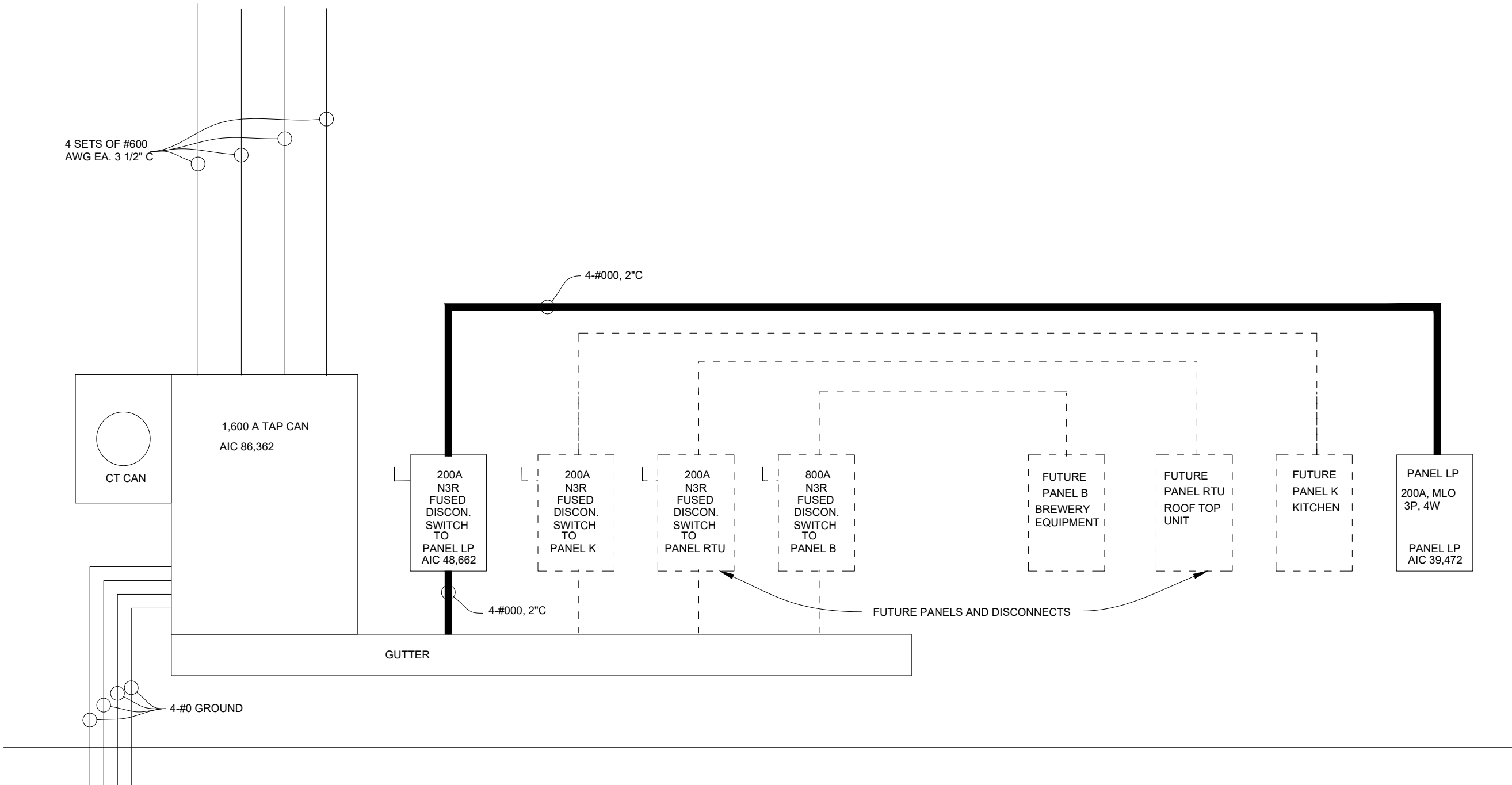
Sheet Title:
Panel Sched. & Riser
Sheet No.
27 of 30



GROUNDING NOTES:

- A. ALL CONDUCTORS SHALL BE MIN. #4 BARE COPPER (RUN IN METAL CONDUIT WHERE REQ'D)
- B. GROUND AND NEUTRAL SHALL BE COPPER
- C. RESISTANCE OF MADE ELECTRODES A SINGLE ELECTRODE CONSISTING OF A ROD, PIPE, OR PLATE THAT DOES NOT HAVE A RESISTANCE TO GROUND OF 25 OHMS OR LESS SHALL BE AUGMENTED BY ONE ADDITIONAL ELECTRODE

ALL WORK SHALL BE IN ACCORDANCE WITH 2005 NATIONAL ELECTRICAL CODE INCLUDING LATEST LOCAL AMENDMENTS ADOPTED BY THE CITY OF WICHITA FALLS



Electrical Riser

Panel "LP" 713 Indiana, LLC													
Circuit No.	Description	Watts	Feeders	Breaker	Phase "A" kw	Phase "B" kw	Phase "C" kw	Breaker	Feeders	Watts	Description	Circuit No.	
1	Lights, Plugs	1,200	2 #12, 1/2"	20A	1.20	1.00		20A	2 #12, 1/2"	1,000	Lights, Plugs	2	
3	Lights, Plugs	1,200	2 #12, 1/2"	20A		1.20	1.20	20A	2 #12, 1/2"	1,200	Lights, Plugs	4	
5	Instand W.H.	1,600	2 #12, 1/2"	20A			1.60	20A	2 #12, 1/2"	1,200	Lights, Plugs	6	
7	Lights	1,000	2 #12, 1/2"	20A	1.00	1.20		20A	2 #12, 1/2"	1,200	Lights, Plugs	8	
9	Instant W.H.	1,600	2 #12, 1/2"	20A		1.60	0.00					10	
11							0.00	0.00				12	
13					0.00	0.00						14	
15						0.00	0.00					16	
17							0.00	0.00				18	
19					0.00	0.00						20	
21						0.00	0.00					22	
23							0.00	0.00				24	
25					0.00	0.00						26	
27						0.00	0.00					28	
29							0.00	0.00				30	
31					0.00	0.00						32	
33						0.00	0.00					34	
35							0.00	0.00				36	
37					0.00	0.00						38	
39						0.00	0.00					40	
41							0.00	0.00				42	
					4.40	4.00	2.80	a					
Total load in kw =					11.20								
Total load in kva =					12.44								
12.44 kva/ 208/ 1.73=					34.58 Amps								
<div>200A MLO 24 Ckts 120/208 - 3 Phase, 4 Wire #000, #4 Ground 2"C</div>													

BV PATEL Engineering Services, L.L.C.
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CHAPTER 3: BUILDING BLOCKS

302 Floor or Ground Surfaces

302.2 Carpet. Carpet or carpet tile shall be securely attached and shall have a firm cushion, pad, or backing or no cushion or pad. Carpet or carpet tile shall have a level loop, textured loop, level cut pile, or level cut/uncut pile texture. Pile height shall be 1/2 inch (13 mm) maximum. Exposed edges of carpet shall be fastened to floor surfaces and shall have trim on the entire length of the exposed exposed edge. Carpet edge trim shall comply with 303.

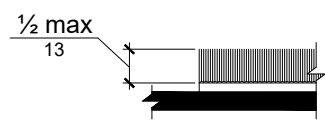


Figure 302.2 Carpet Edge Height

302.3 Opening. Floor or ground surfaces shall not allow passage of a sphere more than 1/2 inch (13 mm) diameter except as allowed in 407.4.3, 409.4.3, 410.4, 810.5.3 and 810.10. Elongated openings shall be placed so that the long dimension is perpendicular to the dominant direction of travel.

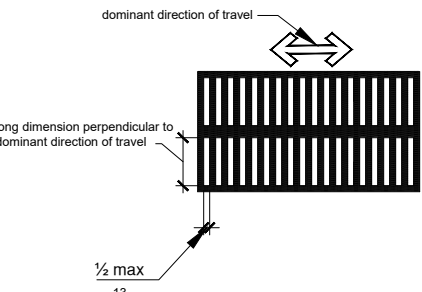


Figure 302.3 Elongated Openings in Floor or Ground Surfaces

302.3 Vertical Change in Level. A vertical change in level shall be permitted to be vertical. A vertical change in level shall be permitted to be vertical. A vertical change in level shall be permitted to be vertical.

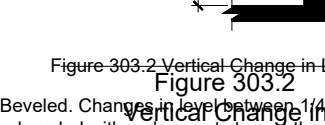


Figure 302.3 Beveled Change in Level

302.3 Beveled Change in Level. A beveled change in level shall be permitted to be beveled with a slope no steeper than 1:2. A beveled change in level shall be permitted to be beveled with a slope no steeper than 1:2. A beveled change in level shall be permitted to be beveled with a slope no steeper than 1:2.

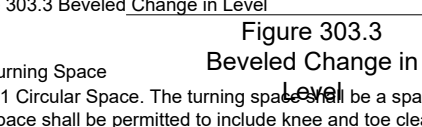


Figure 302.3 Beveled Change in Level

304 Turning Space. The turning space shall be a space of 60 inches (1525 mm) diameter minimum. The space shall be permitted to include knee and toe clearance complying with 306.

304.3.1 Circular Space. The turning space shall be a circular space of 60 inches (1525 mm) diameter minimum. The space shall be permitted to include knee and toe clearance complying with 306.

304.3.2 T-Shaped Space. The turning space shall be a T-shaped space within a 60 inch (1525 mm) square minimum with arms and base 36 inches (915 mm) wide minimum. Each arm of the T shall be clear of obstructions 12 inches (305 mm) minimum in each direction and the base shall be clear of obstructions 24 inches (610 mm) minimum. The space shall be permitted to include knee and toe clearance complying with 306 only at the end of either the base or one arm.

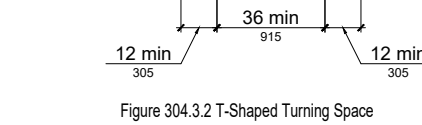


Figure 304.3.2 T-Shaped Turning Space

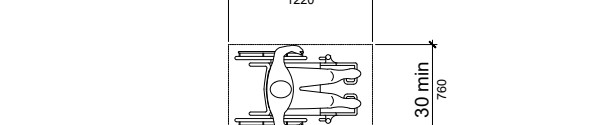


Figure 305.3 Clear Floor or Ground Space

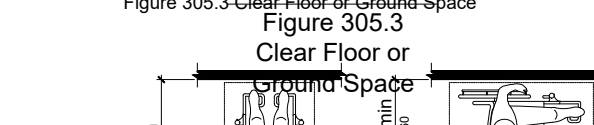


Figure 305.3 Clear Floor or Ground Space

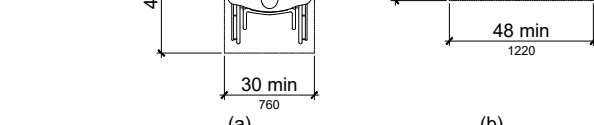


Figure 305.3 Clear Floor or Ground Space

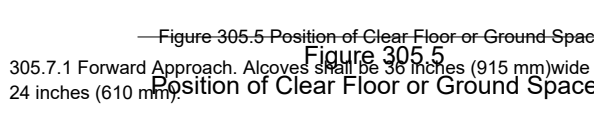


Figure 305.3 Clear Floor or Ground Space

305.7.1 Forward Approach. A forward approach shall be provided where the depth exceeds 24 inches (610 mm) minimum where the depth exceeds 24 inches (610 mm) minimum where the depth exceeds 24 inches (610 mm) minimum.

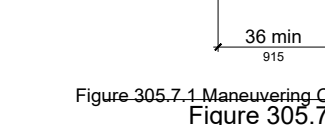


Figure 305.7.1 Forward Approach

305.7.2 Parallel Approach. A parallel approach shall be provided where the depth exceeds 15 inches (380 mm) minimum where the depth exceeds 15 inches (380 mm) minimum where the depth exceeds 15 inches (380 mm) minimum.



Figure 305.7.2 Parallel Approach

306 Knee and Toe Clearance. A knee and toe clearance shall be provided where the depth exceeds 15 inches (380 mm) minimum where the depth exceeds 15 inches (380 mm) minimum where the depth exceeds 15 inches (380 mm) minimum.

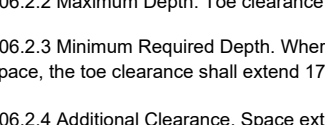


Figure 306.2 Knee and Toe Clearance

306.2.1 General. A knee and toe clearance shall be provided where the depth exceeds 15 inches (380 mm) minimum where the depth exceeds 15 inches (380 mm) minimum where the depth exceeds 15 inches (380 mm) minimum.

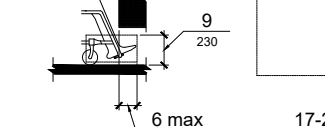


Figure 306.2.1 General

306.2.2 Maximum Depth. A knee and toe clearance shall be provided where the depth exceeds 15 inches (380 mm) minimum where the depth exceeds 15 inches (380 mm) minimum where the depth exceeds 15 inches (380 mm) minimum.



Figure 306.2.2 Maximum Depth

306.2.3 Minimum Required Depth. A knee and toe clearance shall be provided where the depth exceeds 15 inches (380 mm) minimum where the depth exceeds 15 inches (380 mm) minimum where the depth exceeds 15 inches (380 mm) minimum.

Figure 306.2.3 Minimum Required Depth

306.2.4 Additional Clearance. A knee and toe clearance shall be provided where the depth exceeds 15 inches (380 mm) minimum where the depth exceeds 15 inches (380 mm) minimum where the depth exceeds 15 inches (380 mm) minimum.

Figure 306.2.4 Additional Clearance

306.2.5 Width. A knee and toe clearance shall be provided where the depth exceeds 15 inches (380 mm) minimum where the depth exceeds 15 inches (380 mm) minimum where the depth exceeds 15 inches (380 mm) minimum.

Figure 306.2.5 Width

306.3 Knee Clearance

306.3.1 General. A knee clearance shall be provided where the depth exceeds 15 inches (380 mm) minimum where the depth exceeds 15 inches (380 mm) minimum where the depth exceeds 15 inches (380 mm) minimum.

306.3.2 Maximum Depth. A knee clearance shall be provided where the depth exceeds 15 inches (380 mm) minimum where the depth exceeds 15 inches (380 mm) minimum where the depth exceeds 15 inches (380 mm) minimum.

306.3.3 Minimum Required Depth. A knee clearance shall be provided where the depth exceeds 15 inches (380 mm) minimum where the depth exceeds 15 inches (380 mm) minimum where the depth exceeds 15 inches (380 mm) minimum.

306.3.4 Clearance Reduction. A knee clearance shall be provided where the depth exceeds 15 inches (380 mm) minimum where the depth exceeds 15 inches (380 mm) minimum where the depth exceeds 15 inches (380 mm) minimum.

306.3.5 Width. A knee clearance shall be provided where the depth exceeds 15 inches (380 mm) minimum where the depth exceeds 15 inches (380 mm) minimum where the depth exceeds 15 inches (380 mm) minimum.

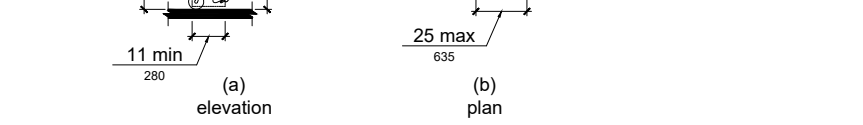


Figure 306.3 Knee Clearance

307 Protruding Objects. A protruding object shall be provided where the depth exceeds 15 inches (380 mm) minimum where the depth exceeds 15 inches (380 mm) minimum where the depth exceeds 15 inches (380 mm) minimum.

307.2 Protrusion Limits. A protruding object shall be provided where the depth exceeds 15 inches (380 mm) minimum where the depth exceeds 15 inches (380 mm) minimum where the depth exceeds 15 inches (380 mm) minimum.

EXCEPTION: Handrails shall be permitted to protrude 4 1/2 inches (115 mm) maximum.

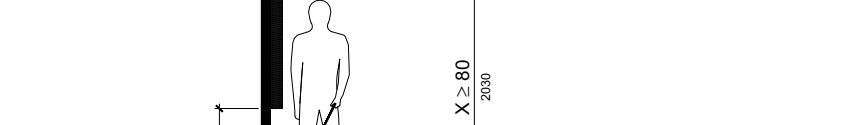


Figure 307.2 Limits of Protruding Objects

307.3 Post-Mounted Objects. A post-mounted object shall be provided where the depth exceeds 15 inches (380 mm) minimum where the depth exceeds 15 inches (380 mm) minimum where the depth exceeds 15 inches (380 mm) minimum.

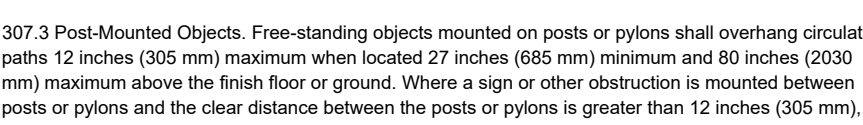


Figure 307.3 Post-Mounted Objects

307.4 Vertical Clearance. A vertical clearance shall be provided where the depth exceeds 15 inches (380 mm) minimum where the depth exceeds 15 inches (380 mm) minimum where the depth exceeds 15 inches (380 mm) minimum.



Figure 307.4 Vertical Clearance

EXCEPTION: Door closers and door stops shall be permitted to be 78 inches (1980 mm) minimum above the finish floor or ground.

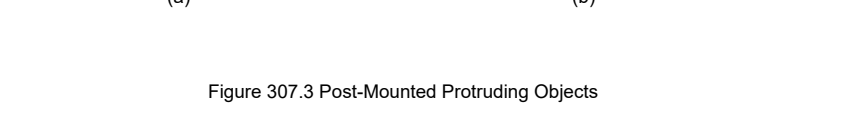


Figure 307.4 Vertical Clearance

EXCEPTION: Door closers and door stops shall be permitted to be 78 inches (1980 mm) minimum above the finish floor or ground.

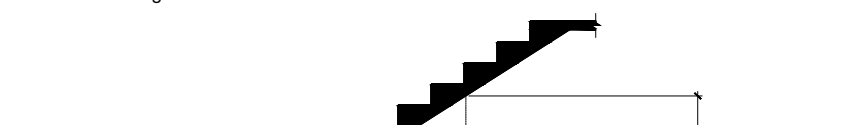


Figure 307.4 Vertical Clearance

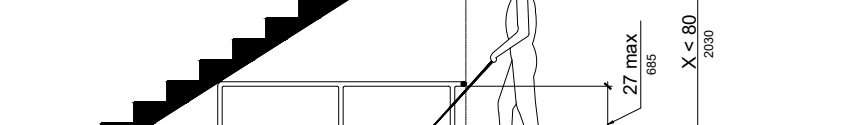


Figure 307.4 Vertical Clearance

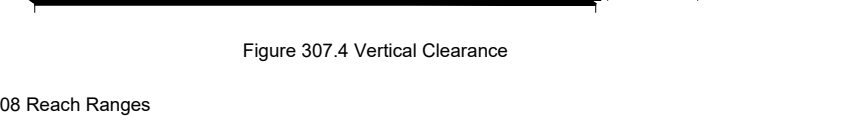


Figure 307.4 Vertical Clearance

308 Reach Ranges. A reach range shall be provided where the depth exceeds 15 inches (380 mm) minimum where the depth exceeds 15 inches (380 mm) minimum where the depth exceeds 15 inches (380 mm) minimum.

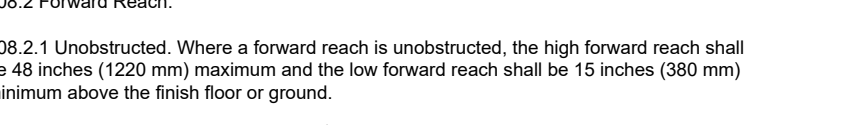


Figure 308.2 Reach Range

308.2.1 Unobstructed. A reach range shall be provided where the depth exceeds 15 inches (380 mm) minimum where the depth exceeds 15 inches (380 mm) minimum where the depth exceeds 15 inches (380 mm) minimum.

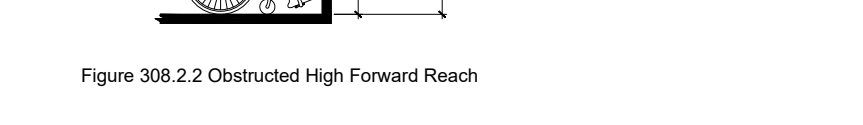


Figure 308.2.1 Unobstructed

308.2.2 Obstructed High Reach. A reach range shall be provided where the depth exceeds 15 inches (380 mm) minimum where the depth exceeds 15 inches (380 mm) minimum where the depth exceeds 15 inches (380 mm) minimum.

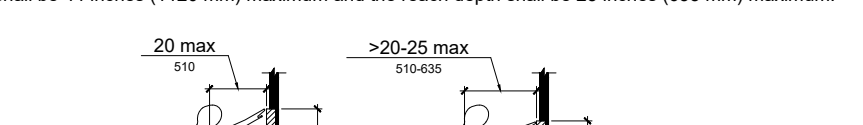


Figure 308.2.2 Obstructed High Reach

308.2.3 Obstructed High Reach. A reach range shall be provided where the depth exceeds 15 inches (380 mm) minimum where the depth exceeds 15 inches (380 mm) minimum where the depth exceeds 15 inches (380 mm) minimum.



Figure 308.2.3 Obstructed High Reach

308.2.4 Obstructed High Reach. A reach range shall be provided where the depth exceeds 15 inches (380 mm) minimum where the depth exceeds 15 inches (380 mm) minimum where the depth exceeds 15 inches (380 mm) minimum.



Figure 308.2.4 Obstructed High Reach

308.2.5 Obstructed High Reach. A reach range shall be provided where the depth exceeds 15 inches (380 mm) minimum where the depth exceeds 15 inches (380 mm) minimum where the depth exceeds 15 inches (380 mm) minimum.

308.3 Side Reach

308.3.1 Unobstructed. A side reach shall be provided where the depth exceeds 15 inches (380 mm) minimum where the depth exceeds 15 inches (380 mm) minimum where the depth exceeds 15 inches (380 mm) minimum.

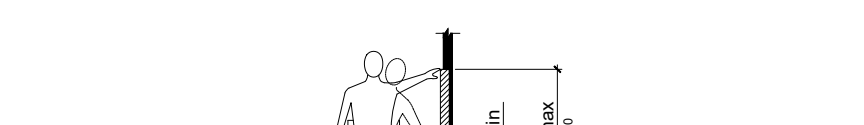


Figure 308.3.1 Unobstructed

308.3.2 Obstructed High Reach. A side reach shall be provided where the depth exceeds 15 inches (380 mm) minimum where the depth exceeds 15 inches (380 mm) minimum where the depth exceeds 15 inches (380 mm) minimum.

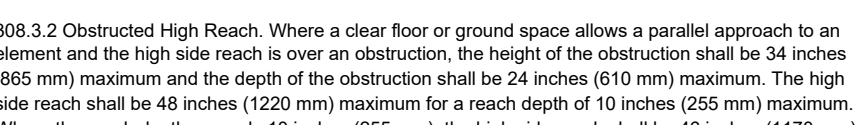


Figure 308.3.2 Obstructed High Reach

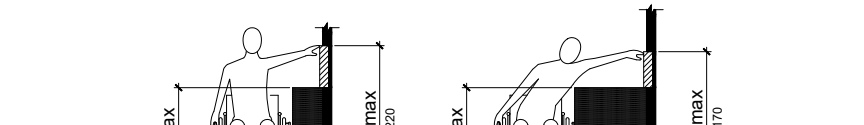


Figure 308.3.2 Obstructed High Reach



Figure 308.3.2 Obstructed High Reach

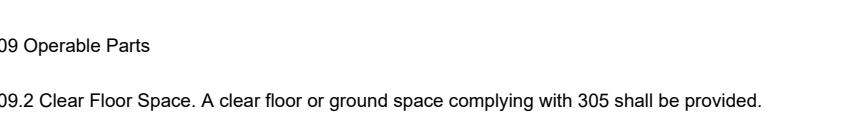


Figure 308.3.2 Obstructed High Reach

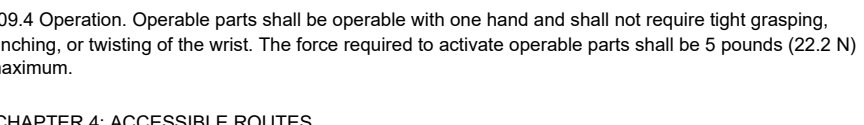


Figure 308.3.2 Obstructed High Reach

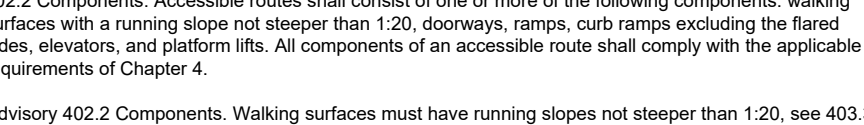


Figure 308.3.2 Obstructed High Reach

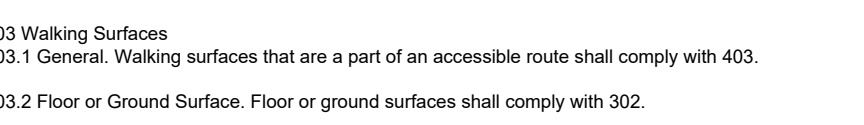


Figure 308.3.2 Obstructed High Reach

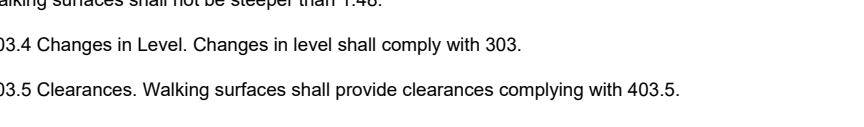


Figure 308.3.2 Obstructed High Reach

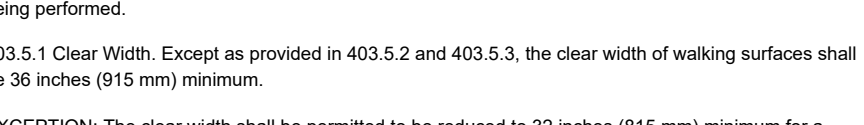


Figure 308.3.2 Obstructed High Reach

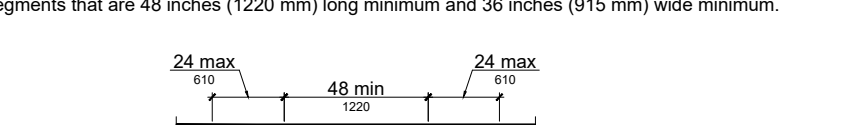


Figure 308.3.2 Obstructed High Reach



Figure 308.3.2 Obstructed High Reach

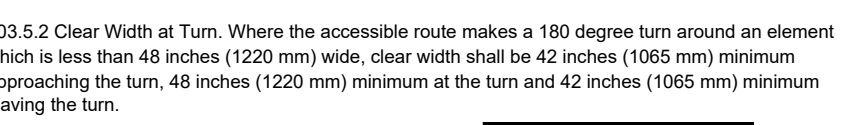


Figure 308.3.2 Obstructed High Reach

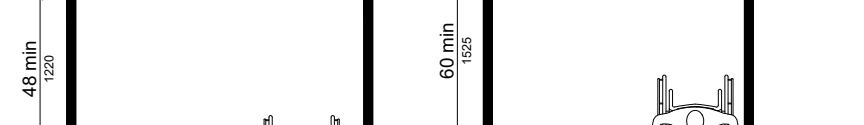


Figure 308.3.2 Obstructed High Reach

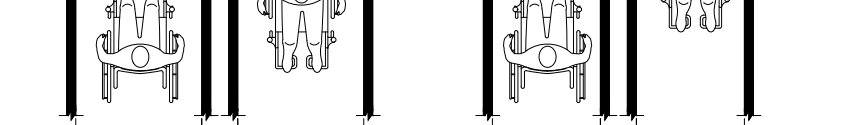


Figure 308.3.2 Obstructed High Reach



Figure 308.3.2 Obstructed High Reach

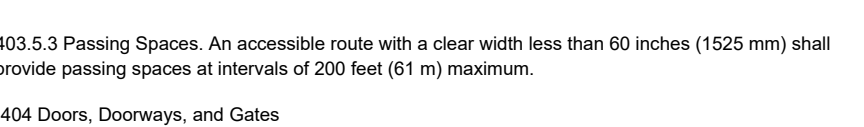


Figure 308.3.2 Obstructed High Reach

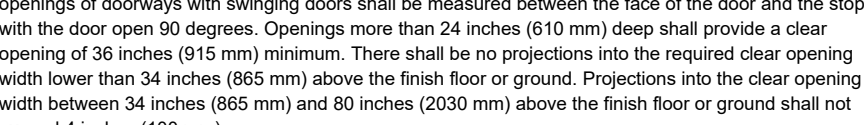


Figure 308.3.2 Obstructed High Reach



Figure 308.3.2 Obstructed High Reach

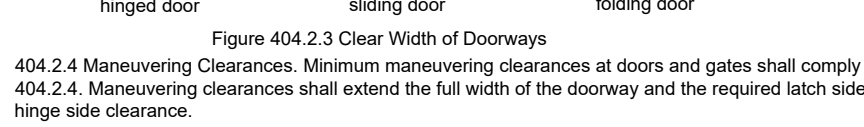


Figure 308.3.2 Obstructed High Reach

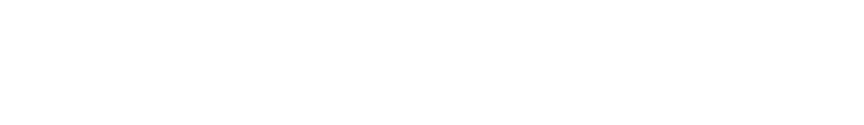


Figure 308.3.2 Obstructed High Reach



Figure 308.3.2 Obstructed High Reach

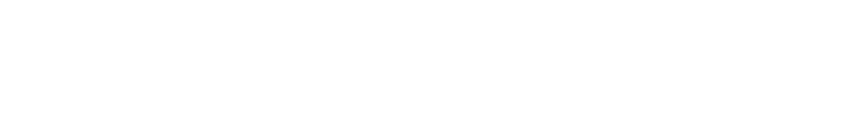


Figure 308.3.2 Obstructed High Reach



Figure 308.3.2 Obstructed High Reach

308.3.3 Obstructed High Reach. A side reach shall be provided where the depth exceeds 15 inches (380 mm) minimum where the depth exceeds 15 inches (380 mm) minimum where the depth exceeds 15 inches (380 mm) minimum.

404.2.4.3 Recessed Doors and Gates. A side reach shall be provided where the depth exceeds 15 inches (380 mm) minimum where the depth exceeds 15 inches (380 mm) minimum where the depth exceeds 15 inches (380 mm) minimum.



Figure 404.2.4.3 Recessed Doors and Gates

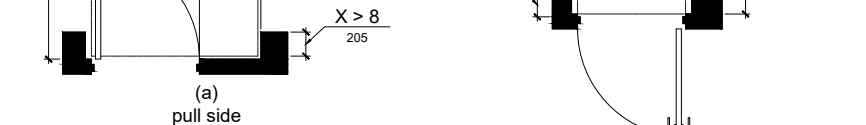


Figure 404.2.4.3 Recessed Doors and Gates

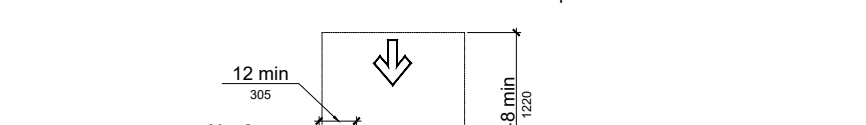


Figure 404.2.4.3 Recessed Doors and Gates

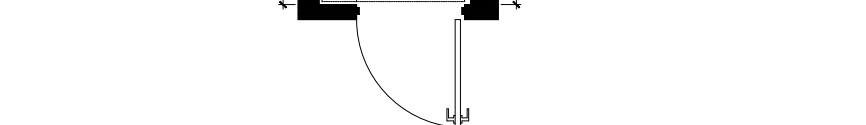


Figure 404.2.4.3 Recessed Doors and Gates

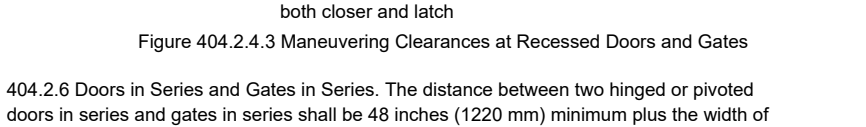


Figure 404.2.4.3 Recessed Doors and Gates

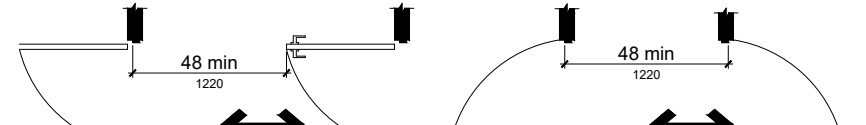


Figure 404.2.4.3 Recessed Doors and Gates



Figure 404.2.4.3 Recessed Doors and Gates

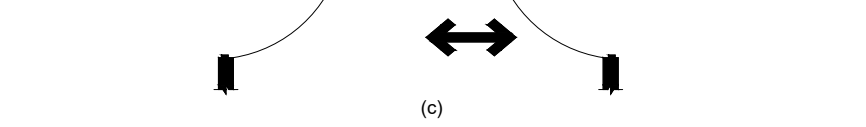


Figure 404.2.4.3 Recessed Doors and Gates

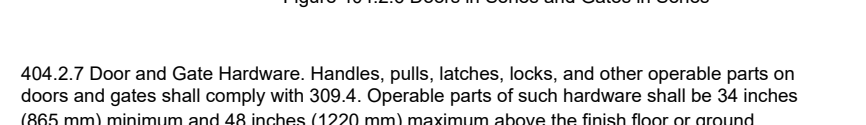


Figure 404.2.4.3 Recessed Doors and Gates

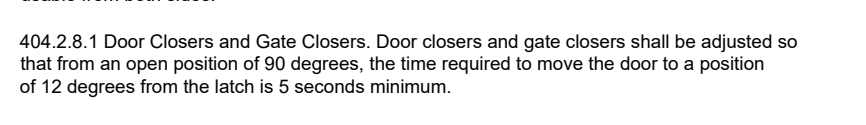


Figure 404.2.4.3 Recessed Doors and Gates

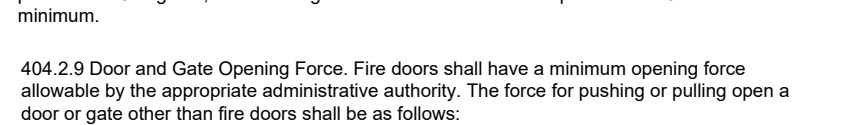


Figure 404.2.4.3 Recessed Doors and Gates

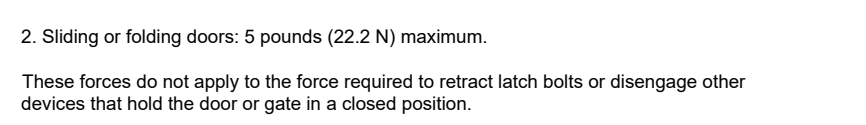
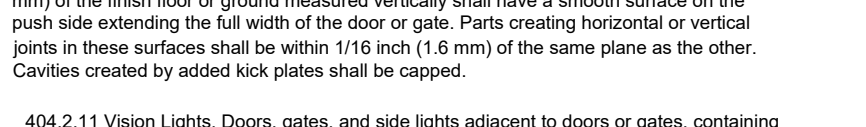
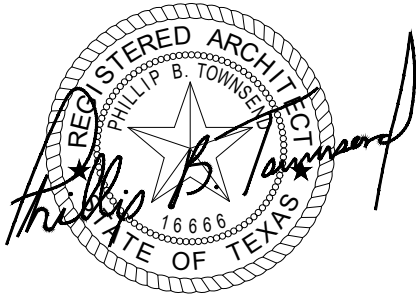


Figure 404.2.4.3 Recessed Doors and Gates





Date of Issue for Review Only
NOT for Regulatory Approval
Permitting or Construction

Date of Issue for Regulatory,
TAS and/or Permitting Approval
FOR Construction

7/25/2022

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I HEREBY CERTIFY THAT THIS PLAN AND SPECIFICATION WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED ARCHITECT UNDER THE LAWS OF THE STATE OF TEXAS AS SIGNIFIED BY MY HAND AND SEAL

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Matthew 7.7
Rom 1:16 1 Cor. 15:14 Rom 6:3-6

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for
713 Indiana, LLC
713 Indiana
Wichita Falls, TX

Job No.

Date:
July 2020
Drawn By:
PT

Sheet Title:
TX Access.
Standards
Sheet No.
29 of 30

604.8.1.4 Toe Clearance. The front partition and at least one side partition shall provide a toe clearance of 9 inches (230 mm) minimum above the finish floor and 6 inches (150 mm) deep minimum beyond the compartment-side face of the partition, exclusive of partition support members. Compartments for children's use shall provide a toe clearance of 12 inches (305 mm) minimum above the finish floor.

EXCEPTION: Toe clearance at the front partition is not required in a compartment greater than 62 inches (1575 mm) deep with a wall-hung water closet or 65 inches (1650 mm) deep with a floor-mounted water closet. Toe clearance at the side partition is not required in a compartment greater than 65 inches (1675 mm) wide. Toe clearance at the front partition is not required in a compartment for children's use that is greater than 65 inches (1650 mm) deep.

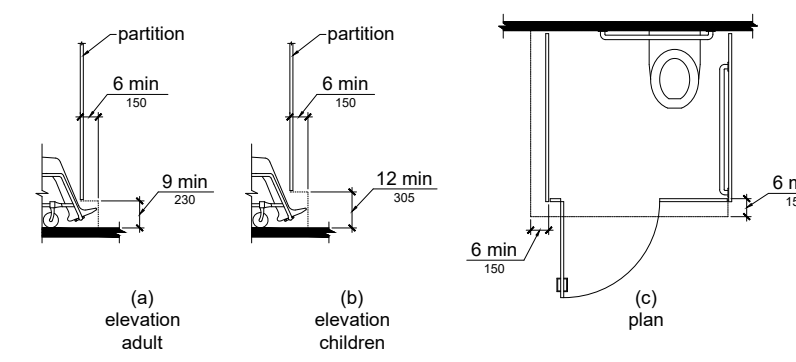


Figure 604.8.1.4 Wheelchair Accessible Toilet Compartment Toe Clearance
604.8.1.5 Grab Bars. Grab bars shall comply with 603. A side-wall grab bar complying with 604.5.1 shall be provided and shall be located on the wall closest to the water closet. In addition, a rear-wall grab bar complying with 604.5.2 shall be provided.

604.8.2 Ambulatory Accessible Compartments. Ambulatory accessible compartments shall comply with 604.8.2.

604.8.2.1 Size. Ambulatory accessible compartments shall have a depth of 60 inches (1525 mm) minimum and a width of 35 inches (890 mm) minimum and 37 inches (940 mm) maximum.

604.8.2.2 Doors. Toilet compartment doors, including door hardware, shall comply with 404, except that if the approach is to the latch side of the compartment door, clearance between the door side of the compartment and any obstruction shall be 42 inches (1065 mm) minimum. The door shall be self-closing. A door pull complying with 404.2.7 shall be placed on both sides of the door near the latch. Toilet compartment doors shall not swing into the minimum required compartment area.

604.8.2.3 Grab Bars. Grab bars shall comply with 603. A side-wall grab bar complying with 604.5.1 shall be provided on both sides of the compartment.

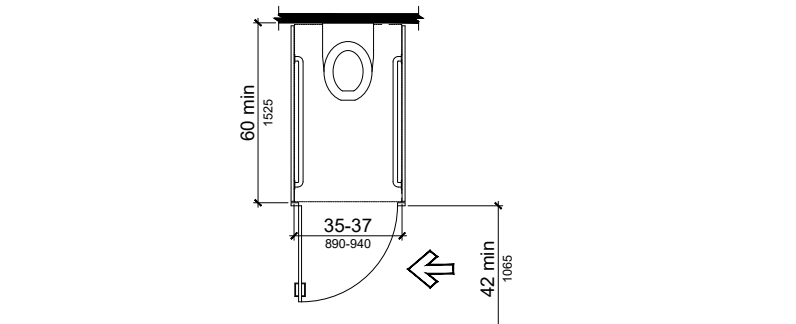


Figure 604.8.2 Ambulatory Accessible Toilet Compartment

604.8.3 Coat Hooks and Shelves. Coat hooks shall be located within one of the reach ranges specified in 308. Shelves shall be located 40 inches (1015 mm) minimum and 48 inches (1220 mm) maximum above the finish floor.

604.8.4 Grab Bars. Grab bars for water closets shall comply with 603. A side-wall grab bar complying with 604.5.1 shall be provided on both sides of the compartment.

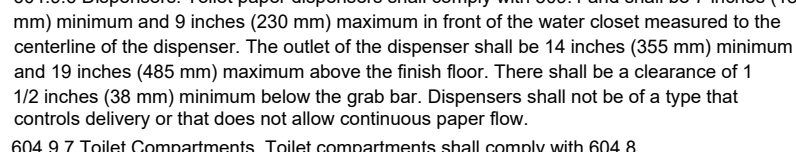
604.8.5 Flush Controls. Flush controls shall be hand operated or automatic. Hand operated flush controls shall comply with 309. Flush controls shall be located on the open side of the water closet except in ambulatory accessible compartments complying with 604.8.2.

604.8.6 Dispensers. Toilet paper dispensers shall comply with 309.4 and shall be 7 inches (180 mm) minimum and 9 inches (230 mm) maximum in front of the water closet measured to the centerline of the dispenser. The outlet of the dispenser shall be 14 inches (355 mm) minimum and 19 inches (485 mm) maximum above the finish floor. There shall be a clearance of 1 1/2 inches (38 mm) minimum below the grab bar. Dispensers shall not be of a type that controls delivery of paper that does not allow continuous paper flow.

604.8.7 Toilet Compartments. Toilet compartments shall comply with 604.8.

605 Urinals

605.2 Height and Depth. Urinals shall be the stall-type or the wall-hung type with the rim 17 inches (430 mm) maximum above the finish floor or ground. Urinals shall be 12 1/2 inches (315 mm) deep minimum measured from the outer face of the urinal rim to the back of the fixture.



605.3 Clear Floor Space. A clear floor or ground space complying with 305 positioned for forward approach shall be provided.

605.4 Flush Controls. Flush controls shall be hand operated or automatic. Hand operated flush controls shall comply with 309.

605.5 Exposed Pipes and Surfaces. Water supply and drain pipes under lavatories and sinks shall be insulated or otherwise configured to protect against contact. There shall be no sharp or abrasive surfaces under lavatories and sinks.

606 Bathrooms

607.2 Clearance. Clearance in front of bathtubs shall extend the length of the bathtub and shall be 30 inches (760 mm) wide minimum. A lavatory complying with 605 shall be permitted at the control end of the clearance. Where a permanent seat is provided at the head end of the bathtub, the clearance shall extend 12 inches (305 mm) minimum beyond the wall at the head end of the bathtub.

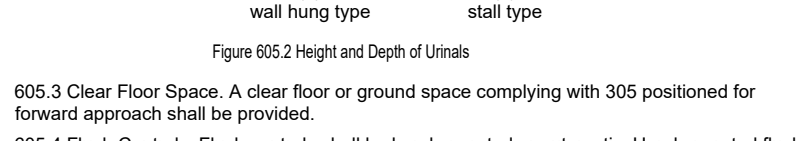


Figure 607.2 Clearance for Bathtubs

607.3 Seat. A permanent seat at the head end of the bathtub or a removable in-tub seat shall be provided. Seats shall comply with 610.

607.4 Grab Bars. Grab bars for bathtubs shall comply with 609 and shall be provided in accordance with 607.4.1 or 607.4.2.

607.4.1 Bathtubs With Permanent Seats. For bathtubs with permanent seats, grab bars shall be provided in accordance with 607.4.1.

603 Toilet and Bathing Rooms

603.2 Clearances. Clearances shall comply with 603.2.

603.2.1 Turning Space. Turning space complying with 304 shall be provided within the room.

603.2.2 Overlap. Required clear floor space, clearance at fixtures, and turning space shall be permitted to overlap.

603.2.3 Door Swing. Doors shall not swing into the clear floor space or clearance required for any fixture. Doors shall be permitted to swing into the required turning space.

603.3 Mirrors. Mirrors located above lavatories or countertops shall be installed with the bottom edge of the reflecting surface 40 inches (1015 mm) maximum above the finish floor or ground. Mirrors not located above lavatories or countertops shall be installed with the bottom edge of the reflecting surface 35 inches (890 mm) maximum above the finish floor or ground.

603.4 Coat Hooks and Shelves. Coat hooks shall be located within one of the reach ranges specified in 308. Shelves shall be located 40 inches (1015 mm) minimum and 48 inches (1220 mm) maximum above the finish floor.

604 Water Closets and Toilet Compartments

604.2 Location. The water closet shall be positioned with a wall or partition to the rear and to one side. The centerline of the water closet shall be 16 inches (405 mm) minimum to 18 inches (455 mm) maximum from the side wall or partition, except that the water closet shall be 17 inches (430 mm) minimum and 19 inches (485 mm) maximum from the side wall or partition in the ambulatory accessible toilet compartment specified in 604.8.2. Water closets shall be arranged for a left-hand or right-hand approach.

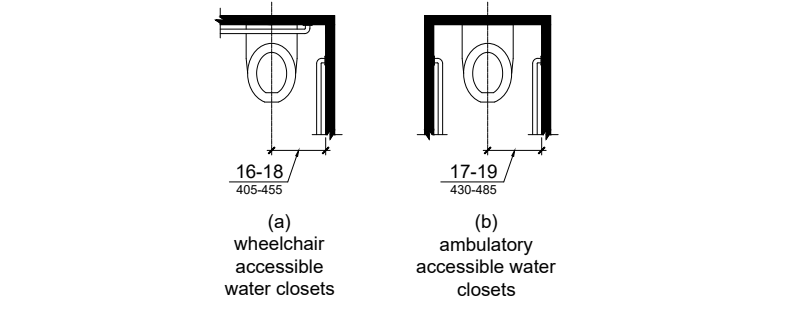


Figure 604.2 Water Closet Location

604.3.1 Size. Clearance around a water closet shall be 60 inches (1525 mm) minimum measured perpendicular from the side wall and 56 inches (1420 mm) minimum measured perpendicular from the rear wall.

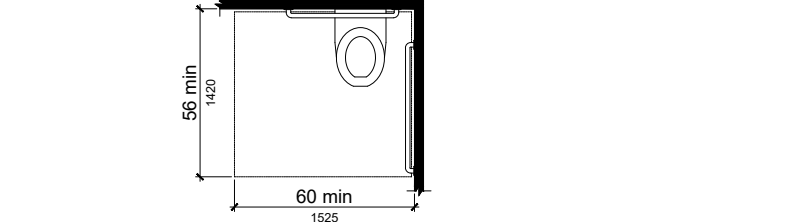


Figure 604.3.1 Size of Clearance at Water Closets

604.3.2 Overlap. The required clearance around the water closet shall be permitted to overlap the water closet, associated grab bars, dispensers, sanitary napkin disposal units, coat hooks, shelves, accessible routes, clear floor space and clearances required at other fixtures, and the turning space. No other fixtures or obstructions shall be located within the required water closet clearance.

604.4 Seats. The seat height of a water closet above the finish floor shall be 17 inches (430 mm) minimum and 19 inches (485 mm) maximum measured to the top of the seat. Seats shall not be sprung to return to a lifted position.

604.5 Grab Bars. Grab bars for water closets shall comply with 609. Grab bars shall be provided on the side wall closest to the water closet and on the rear wall.

604.5.1 Side Wall. The side wall grab bar shall be 42 inches (1065 mm) long minimum, located 1 1/2 inches (38 mm) maximum from the rear wall and extending 54 inches (1370 mm) minimum from the rear wall.

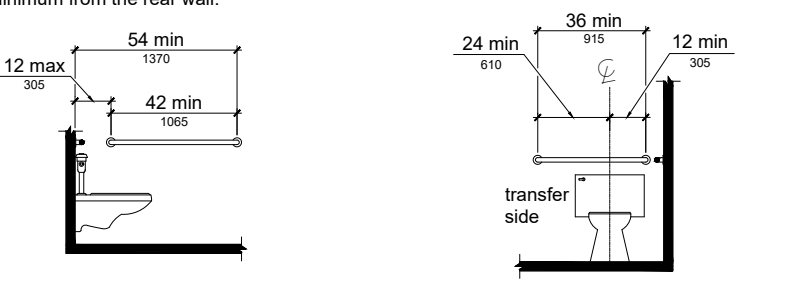


Figure 604.5.1 Side Wall Grab Bar at Water Closets

604.5.2 Rear Wall. The rear wall grab bar shall be 36 inches (915 mm) long minimum and extend from the centerline of the water closet 12 inches (305 mm) minimum on one side and 24 inches (610 mm) minimum on the other side.

604.6 Flush Controls. Flush controls shall be hand operated or automatic. Hand operated flush controls shall comply with 309. Flush controls shall be located on the open side of the water closet except in ambulatory accessible compartments complying with 604.8.2.

604.7 Dispensers. Toilet paper dispensers shall comply with 309.4 and shall be 7 inches (180 mm) minimum and 9 inches (230 mm) maximum in front of the water closet measured to the centerline of the dispenser. The outlet of the dispenser shall be 14 inches (355 mm) minimum and 19 inches (485 mm) maximum above the finish floor. There shall be a clearance of 1 1/2 inches (38 mm) minimum below the grab bar. Dispensers shall not be of a type that controls delivery of paper that does not allow continuous paper flow.

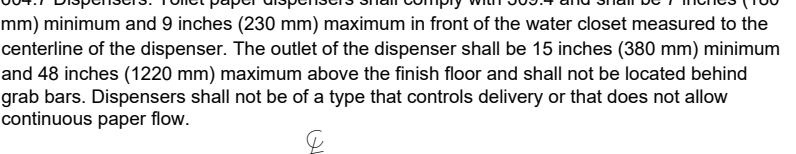


Figure 604.7 Dispenser Outlet Location

604.8 Toilet Compartments. Wheelchair accessible toilet compartments shall meet the requirements of 604.8.1 and 604.8.3. Compartments containing more than one plumbing fixture shall comply with 603. Ambulatory accessible compartments shall comply with 604.8.2 and 604.8.3.

604.8.1 Wheelchair Accessible Compartments. Wheelchair accessible compartments shall comply with 604.8.1.

604.8.1.1 Size. Wheelchair accessible compartments shall be 60 inches (1525 mm) wide minimum measured perpendicular to the side wall and 56 inches (1420 mm) deep minimum for wall-hung water closets and 59 inches (1500 mm) deep minimum for floor-mounted water closets measured perpendicular to the rear wall. Wheelchair accessible compartments for children's use shall be 60 inches (1525 mm) wide minimum measured perpendicular to the side wall, and 59 inches (1500 mm) deep minimum for wall-hung and floor-mounted water closets measured perpendicular to the rear wall.

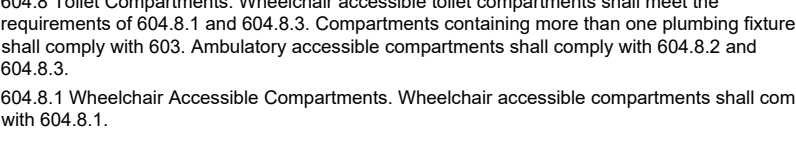


Figure 604.8.1.1 Size of Wheelchair Accessible Toilet Compartment

604.8.1.2 Doors. Toilet compartment doors, including door hardware, shall comply with 404 except that if the approach is to the latch side of the compartment door, clearance between the door side of the compartment and any obstruction shall be 42 inches (1065 mm) minimum. Doors shall be located in the front partition or in the side wall or partition farthest from the water closet. Where located in the front partition, the door opening shall be 4 inches (100 mm) maximum from the side wall or partition farthest from the water closet. Where located in the side wall or partition, the door opening shall be 4 inches (100 mm) maximum from the front partition. The door shall be self-closing. A door pull complying with 404.2.7 shall be placed on both sides of the door near the latch. Toilet compartment doors shall not swing into the minimum required compartment area.

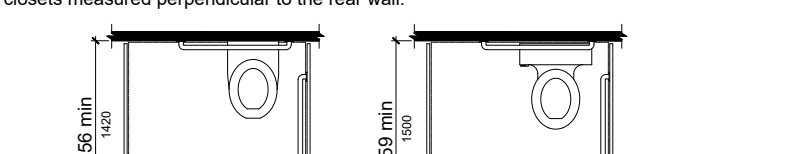


Figure 604.8.1.2 Doors

604.8.2.1 Size. Wheelchair accessible compartments shall be 60 inches (1525 mm) wide minimum measured perpendicular to the side wall and 56 inches (1420 mm) deep minimum for wall-hung water closets and 59 inches (1500 mm) deep minimum for floor-mounted water closets measured perpendicular to the rear wall.

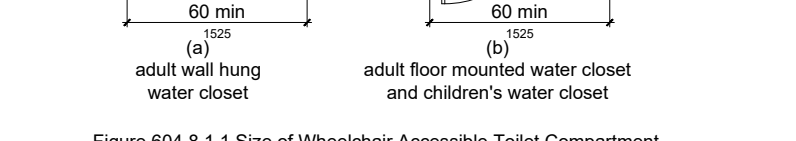


Figure 604.8.2.1 Size of Wheelchair Accessible Toilet Compartment

604.8.2.2 Doors. Toilet compartment doors, including door hardware, shall comply with 404 except that if the approach is to the latch side of the compartment door, clearance between the door side of the compartment and any obstruction shall be 42 inches (1065 mm) minimum. Doors shall be located in the front partition or in the side wall or partition farthest from the water closet. Where located in the front partition, the door opening shall be 4 inches (100 mm) maximum from the side wall or partition farthest from the water closet. Where located in the side wall or partition, the door opening shall be 4 inches (100 mm) maximum from the front partition. The door shall be self-closing. A door pull complying with 404.2.7 shall be placed on both sides of the door near the latch. Toilet compartment doors shall not swing into the minimum required compartment area.

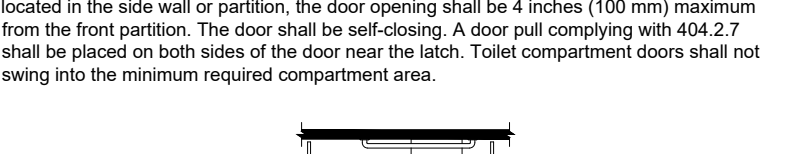


Figure 604.8.2.2 Doors

604.8.3.1 Approach. Compartments shall be arranged for left-hand or right-hand approach to the water closet.

504 Stairways

504.1 General. Stairs that are part of the means of egress is required to comply with 504.

504.2 Treads and Risers. All steps on a flight of stairs shall have uniform riser heights and uniform tread depths. Risers shall be 4 inches (100 mm) high minimum and 7 inches (180 mm) high maximum. Treads shall be 11 inches (280 mm) deep minimum.

504.3 Open Risers. Open risers are not permitted.

504.4 Tread Surface. Tread stairs shall comply with 302. Changes in level are not permitted.

504.5 Nosings. The radius of curvature at the leading edge of the tread shall be 1/2 inch (13 mm) maximum. Nosings that project beyond risers shall have the underside of the leading edge curved or beveled. Risers shall be permitted under the tread at an angle of 30 degrees maximum from vertical. The permitted projection of the nosing shall extend 1 1/2 inches (38 mm) maximum over the tread below.

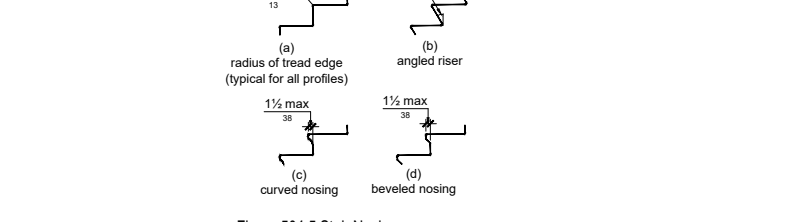


Figure 504.5 Stair Nosings

504.6 Handrails. Stairs shall have handrails complying with 505.

504.7 Wet Conditions. Stairs and landings subject to wet conditions shall be designed to prevent the accumulation of water.

505 Handrails

505.1 General. Handrails provided along walking surfaces complying with 403, required at ramps complying with 405, and required at stairs complying with 504 shall comply with 505.

Advisory 505.1 General. Handrails are required on ramp runs with a rise greater than 6 inches (150 mm) (see 405.6) and on certain stairways (see 504). Handrails are not required on walking surfaces with running slopes less than 1:20. However, handrails are required to comply with 505 when they are provided on walking surfaces with running slopes less than 1:20 (see 403.6).

Sections 505.2, 505.3, and 505.10 do not apply to handrails provided on walking surfaces with running slopes less than 1:20 as these sections only reference requirements for ramps and stairs.

505.2 Where Required. Handrails shall be provided on both sides of stairs and ramps.

505.3 Continuity. Handrails shall be continuous within the full length of each stair flight or ramp run. Inside handrails on switchback or dogleg stairs and ramps shall be continuous between flights or runs.

505.4 Height. Top of gripping surfaces of handrails shall be 34 inches (865 mm) minimum and 38 inches (965 mm) maximum vertically above walking surfaces, stair nosings, and ramp surfaces. Handrails shall be at a consistent height above walking surfaces, stair nosings, and ramp surfaces.

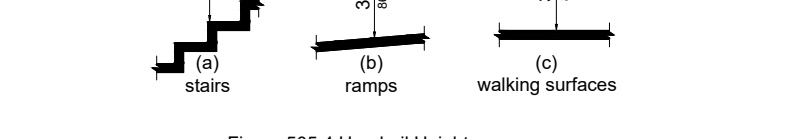


Figure 505.4 Handrail Height

505.5 Clearance. Clearance between handrail gripping surfaces and adjacent surfaces shall be 1 1/2 inches (38 mm) minimum.

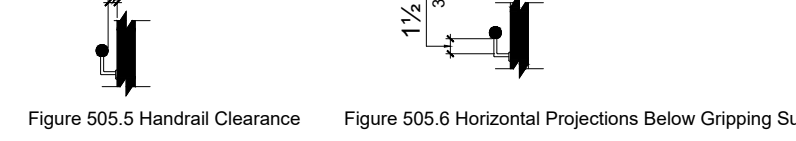


Figure 505.5 Clearance

505.6 Horizontal Projections Below Gripping Surface

505.6.1 General. Handrail gripping surfaces shall be continuous along their length and shall not be obstructed along their tops or sides. The bottoms of handrail gripping surfaces shall not be obstructed for more than 20 percent of their length. Where provided, horizontal projections shall occur at 1 1/2 inches (38 mm) minimum below the bottom of the handrail gripping surface.

505.7.1 Circular Cross Section. Handrail gripping surfaces with a circular cross section shall have an outside diameter of 1 1/4 inches (32 mm) minimum and 2 inches (51 mm) maximum.

505.7.2 Non-Circular Cross Sections. Handrail gripping surfaces with a non-circular cross section shall have a perimeter dimension of 4 inches (100 mm) minimum and 6 1/4 inches (160 mm) maximum, and a cross-section dimension of 2 1/4 inches (57 mm) maximum.

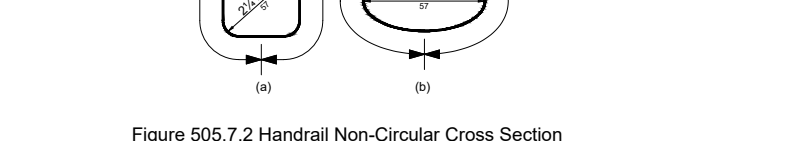


Figure 505.7.2 Handrail Non-Circular Cross Section

505.8 Surfaces. Handrail gripping surfaces and any surfaces adjacent to them shall be free of sharp or abrasive elements and shall have rounded edges.

505.9 Fittings. Handrails shall not rotate within their fittings.

505.10 Handrail Extensions. Handrail gripping surfaces shall extend beyond and in the same direction of stair flights and ramp runs in accordance with 505.10.

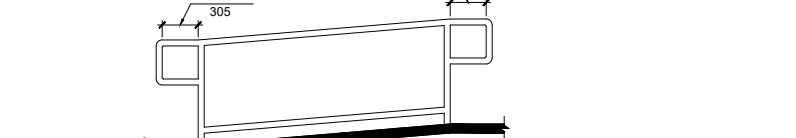


Figure 505.10.1 Top and Bottom Handrail Extension at Ramps

505.10.2 Top Extension at Stairs. At the top of a stair flight, handrails shall extend horizontally above the landing for 12 inches (305 mm) minimum beyond the top and bottom of ramp runs. Extensions shall return to a wall, guard, or the landing surface, or shall be continuous to the handrail of an adjacent stair flight.

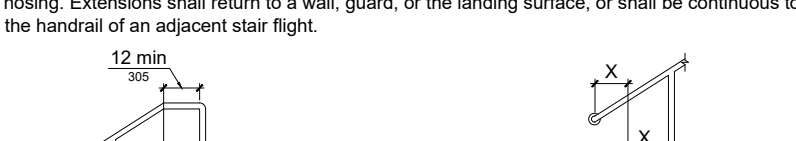


Figure 505.10.2 Top Extension at Stairs

505.10.3 Bottom Extension at Stairs. At the bottom of a stair flight, handrails shall extend at the slope of the stair flight for a horizontal distance at least equal to one tread depth beyond the last riser nosing. Extension shall return to a wall, guard, or the landing surface, or shall be continuous to the handrail of an adjacent stair flight.

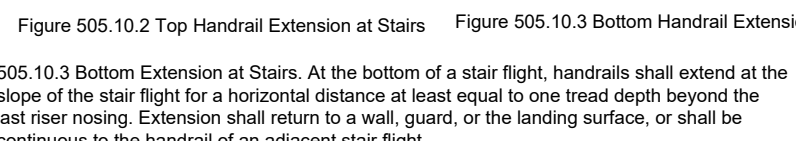


Figure 505.10.3 Bottom Extension at Stairs

CHAPTER 6 PLUMBING ELEMENTS AND FACILITIES

602 Drinking Fountains

602.2 Clear Floor Space. Units shall have a clear floor or ground space complying with 305 positioned for a forward approach and centered on the unit. Knee and toe clearance complying with 308 shall be provided.

EXCEPTION: A parallel approach complying with 305 shall be permitted at units for children's use where the spout is 30 inches (760 mm) maximum above the finish floor or ground and is 3 1/2 inches (90 mm) maximum from the front edge of the unit, including bumpers.

602.3 Operable Parts. Operable parts shall comply with 309.

602.4 Spout Height. Spout outlets shall be 36 inches (915 mm) maximum above the finish floor or ground.

602.5 Spout Location. The spout shall be located 15 inches (380 mm) minimum from the vertical support and 5 inches (125 mm) maximum from the front edge of the unit, including bumpers.

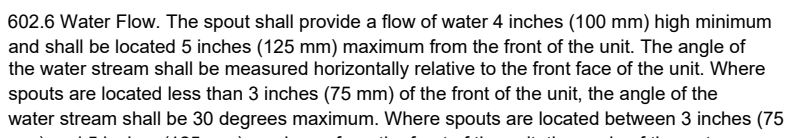


Figure 602.5 Drinking Fountain Spout Location

602.6 Water Flow. The spout shall provide a flow of water 4 inches (100 mm) high minimum and shall be located 5 inches (125 mm) maximum from the front of the unit. The angle of the water stream shall be measured horizontally relative to the front face of the unit. Where spouts are located less than 3 inches (75 mm) of the front of the unit, the angle of the water stream shall be 30 degrees maximum. Where spouts are located between 3 inches (75 mm) and 5 inches (125 mm) maximum from the front of the unit, the angle of the water stream shall be 15 degrees maximum.

602.7 Drinking Fountains for Standing Persons. Spout outlets of drinking fountains for standing persons shall be 38 inches (965 mm) minimum and 43 inches (1090 mm) maximum above the finish floor or ground.

The ADA and other Federal civil rights laws require that accessible features be maintained in working order so that they are accessible to and usable by those people they are intended to benefit. Building owners are reminded that the ASME A18 Safety Standard for Platform Lifts and Stairway Chairlifts requires routine maintenance and inspections. Isolated or temporary interruptions in service due to maintenance or repairs may be unavoidable; however, failure to take prompt action to effect repairs could constitute a violation of Federal laws and these requirements.

410.2 Floor Surfaces. Floor surfaces in platform lifts shall comply with 302 and 303.

410.3 Clear Floor Space. Clear floor space in platform lifts shall comply with 305.

410.4 Platform to Runway Clearance. The clearance between the platform sill and the edge of any runway landing shall be 1 inch (32 mm) minimum.

410.5 Operable Parts. Controls for platform lifts shall comply with 309.

410.6 Doors and Gates. Platform lifts shall have low-energy power-operated doors or gates complying with 404.3. Doors shall remain open for 20 seconds minimum. End doors and gates shall provide a clear width 32 inches (815 mm) minimum. Side doors and gates shall provide a clear width 42 inches (1065 mm) minimum.

EXCEPTION: Platform lifts serving two landings maximum and having doors or gates on opposite sides shall be permitted to have self-closing manual doors or gates.

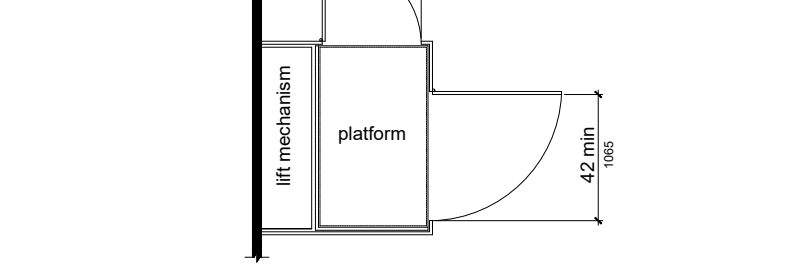


Figure 410.6 Platform Lift Doors and Gates

501 General

501.1 Scope. The provisions of Chapter 5 shall apply where required by Chapter 2 or where referenced by a requirement in this document.

502 Parking Spaces

502.1 General. Car and van parking spaces shall comply with 502. Where parking spaces are marked with lines, width measurements of parking spaces and access aisles shall be made from the centerline of the markings.

EXCEPTION: Where parking spaces or access aisles are not adjacent to another parking space or access aisle, measurements shall be permitted to include the full width of the line defining the parking space or access aisle.

502.2 Vehicle Spaces. Car parking spaces shall be 96 inches (2440 mm) wide minimum and van parking spaces shall be 132 inches (3350 mm) wide minimum, shall be marked to define the width, and shall have an adjacent access aisle complying with 502.3.

EXCEPTION: Van parking spaces shall be permitted to be 96 inches (2440 mm) wide minimum where the access aisle is 96 inches (2440 mm) wide minimum.

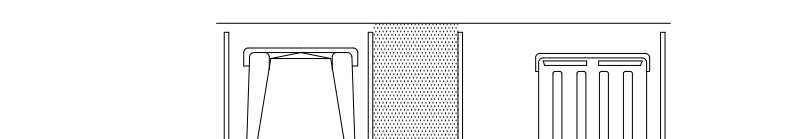
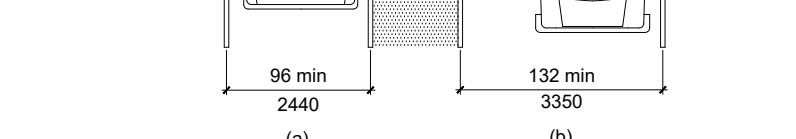


Figure 502.2 Vehicle Parking Spaces

502.3 Access Aisle. Access aisles serving parking spaces shall comply with 502.3. Access aisles shall adjoin an accessible route. Two parking spaces shall be permitted to share a common access aisle.



607.4.1.1 Back Wall. Two grab bars shall be installed on the back wall, one located in accordance with 609.4 and the other located 8 inches (205 mm) minimum and 10 inches (255 mm) maximum above the rim of the bathtub. Each grab bar shall be installed 15 inches (380 mm) maximum from the head end wall and 12 inches (305 mm) maximum from the control end wall.

607.4.2 Control End Wall. A grab bar 24 inches (610 mm) long minimum shall be installed on the control end wall at the front edge of the bathtub.

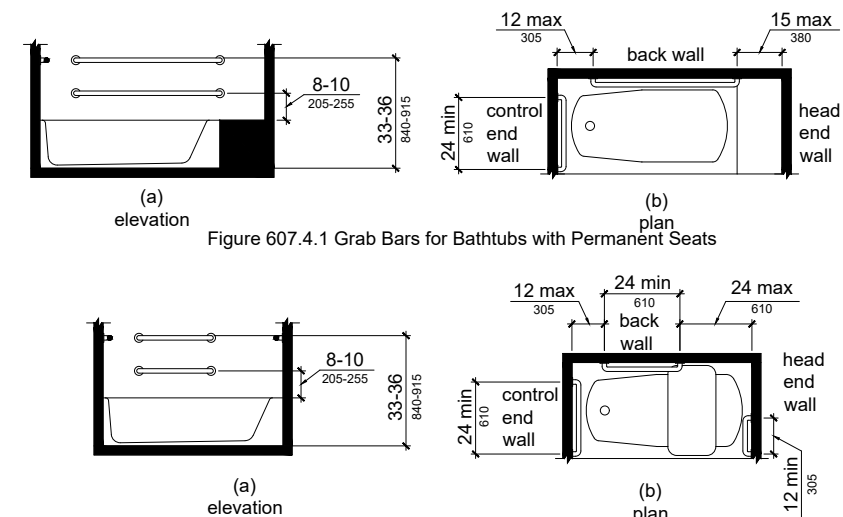


Figure 607.4.1 Grab Bars for Bathtubs with Permanent Seats

607.4.2 Bathtubs Without Permanent Seats. For bathtubs without permanent seats, grab bars shall comply with 607.4.2.

607.4.2.1 Back Wall. Two grab bars shall be installed on the back wall, one located in accordance with 609.4 and other located 8 inches (205 mm) minimum and 10 inches (255 mm) maximum above the rim of the bathtub. Each grab bar shall be 24 inches (610 mm) long minimum and shall be installed 24 inches (610 mm) maximum from the head end wall and 12 inches (305 mm) maximum from the control end wall.

607.4.2.2 Control End Wall. A grab bar 24 inches (610 mm) long minimum shall be installed on the control end wall at the front edge of the bathtub.

607.4.2.3 Head End Wall. A grab bar 12 inches (305 mm) long minimum shall be installed on the head end wall at the front edge of the bathtub.

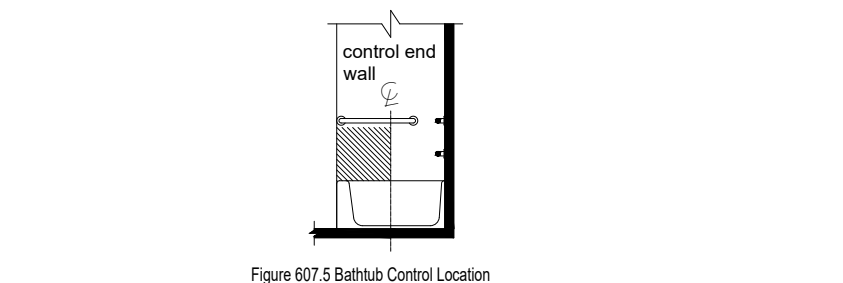


Figure 607.4.2 Bathtub Control Location

607.5 Controls. Controls, other than drain stoppers, shall be located on an end wall. Controls shall be between the bathtub rim and grab bar, and between the open side of the bathtub and the centerline of the width of the bathtub. Controls shall comply with 309.4.

607.6 Shower Spray Unit and Water. A shower spray unit with a hose 59 inches (1500 mm) long minimum that can be used both as a fixed-position shower head and as a hand-held shower shall be provided. The shower spray unit shall have an on/off control with a non-positive shut-off. If an adjustable-height shower head on a vertical bar is used, the bar shall be installed so as not to obstruct the use of grab bars. Bathtub shower spray units shall deliver water that is 120°F (49°C) maximum.

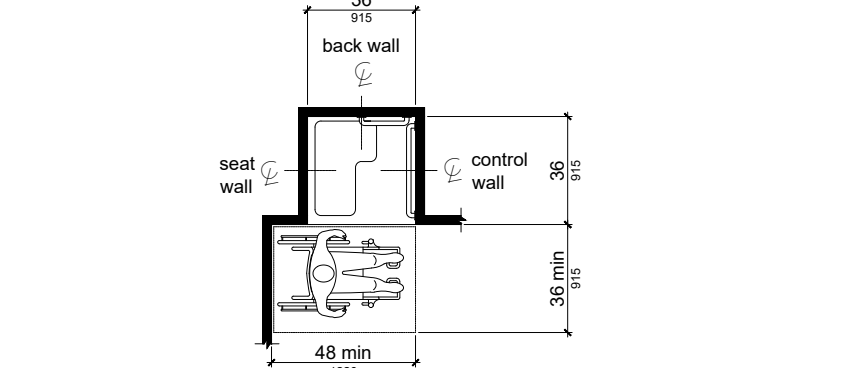
607.7 Bathtub Enclosures. Enclosures for bathtubs shall not obstruct controls, faucets, shower and spray units or obstruct transfer from wheelchairs onto bathtub seats or into bathtubs. Enclosures on bathtubs shall not have tracks installed on the rim of the open face of the bathtub.

608 Shower Compartments

608.2 Size and Clearances for Shower Compartments. Shower compartments shall have sizes and clearances complying with 608.2.

608.2.1 Transfer Type Shower Compartments. Transfer type shower compartments shall be 36 inches (915 mm) wide minimum and 60 inches (1525 mm) deep minimum clear inside dimensions measured at the center points of opposing sides and shall have a 60 inches (1525 mm) wide minimum entry on the face of the shower compartment.

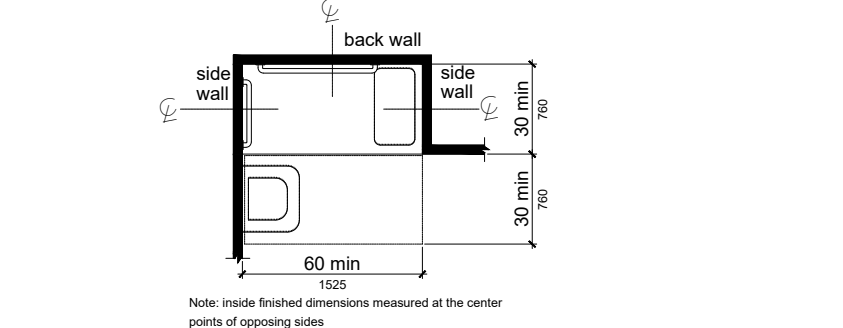
608.2.2 Clearance. A 30 inch (760 mm) wide minimum by 60 inch (1525 mm) long minimum clearance shall be provided adjacent to the open face of the shower compartment.



Note: inside finished dimensions measured at the center points of opposing sides

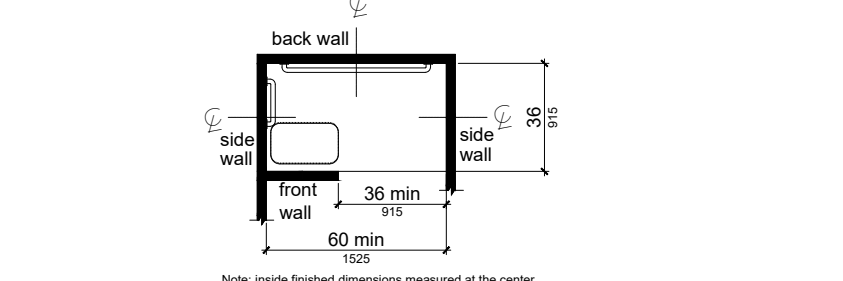
608.2.2 Standard Roll-In Type Shower Compartments. Standard roll-in type shower compartments shall be 30 inches (760 mm) wide minimum by 60 inches (1525 mm) deep minimum clear inside dimensions measured at center points of opposing sides and shall have a 60 inches (1525 mm) wide minimum entry on the face of the shower compartment.

608.2.2.1 Clearance. A 30 inch (760 mm) wide minimum by 60 inch (1525 mm) long minimum clearance shall be provided adjacent to the open face of the shower compartment.



Note: inside finished dimensions measured at the center points of opposing sides

608.2.3 Alternate Roll-In Type Shower Compartments. Alternate roll-in type shower compartments shall be 36 inches (915 mm) wide and 60 inches (1525 mm) deep minimum clear inside dimensions measured at center points of opposing sides. A 36 inch (915 mm) wide minimum entry shall be provided at one of the long side of the compartment.



Note: inside finished dimensions measured at the center points of opposing sides

608.3 Grab Bars. Grab bars shall comply with 609 and shall be provided in accordance with 608.3. Where multiple grab bars are used, required horizontal grab bars shall be installed at the same height above the finish floor.

608.3.1 Transfer Type Shower Compartments. In transfer type compartments, grab bars shall be provided across the control wall and back wall to a point 18 inches (455 mm) from the control wall.

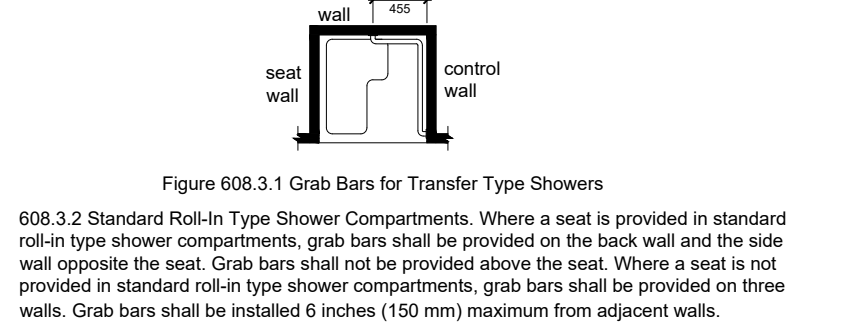


Figure 608.3.1 Grab Bars for Transfer Type Showers

608.3.2 Standard Roll-In Type Shower Compartments. Where a seat is provided in standard roll-in type shower compartments, grab bars shall be provided on the back wall and the side wall opposite the seat. Grab bars shall not be provided above the seat. Where a seat is not provided in standard roll-in type shower compartments, grab bars shall be provided on three walls. Grab bars shall be installed 6 inches (150 mm) maximum from adjacent walls.

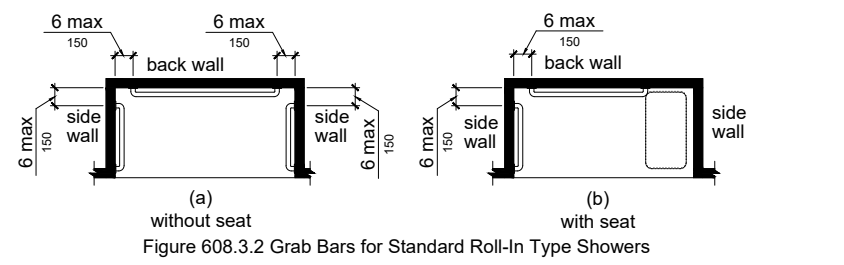


Figure 608.3.2 Grab Bars for Standard Roll-In Type Showers

608.3.3 Alternate Roll-In Type Shower Compartments. In alternate roll-in type shower compartments, grab bars shall be provided on the back wall and the side wall farthest from the compartment entry. Grab bars shall not be provided above the seat. Grab bars shall be installed 6 inches (150 mm) maximum from adjacent walls.

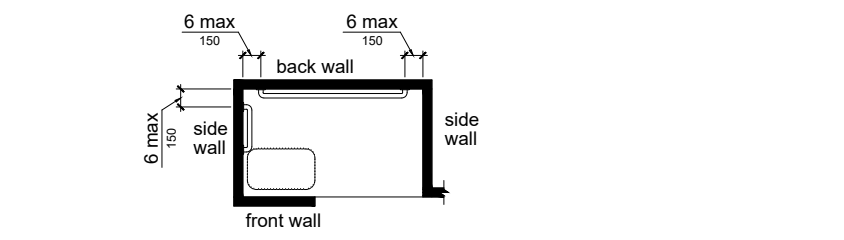


Figure 608.3.3 Grab Bars for Alternate Roll-In Type Showers

608.4 Seats. A folding or non-folding seat shall be provided in transfer type shower compartments. A folding seat shall be provided in roll-in type showers required in transient lodging guest rooms with mobility features complying with 806.2. Seats shall comply with 610.608.5 Controls. Controls, faucets, and shower spray units shall comply with 309.4.

608.5.1 Transfer Type Shower Compartments. In transfer type shower compartments, the controls, faucets, and shower spray unit shall be installed on the side wall opposite the seat 38 inches (965 mm) minimum and 48 inches (1220 mm) maximum above the shower floor and shall be located on the control wall 15 inches (380 mm) maximum from the centerline of the seat toward the shower opening.

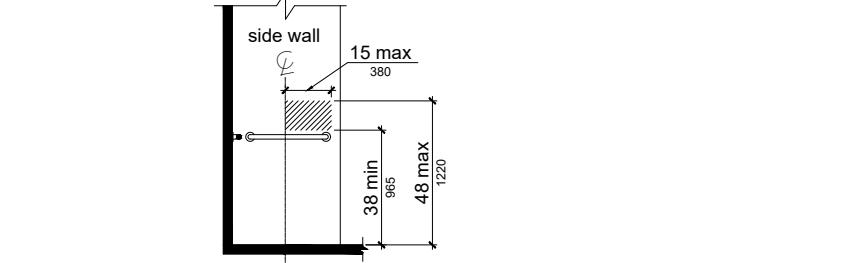


Figure 608.5.1 Transfer Type Shower Compartment Control Location

608.5.2 Standard Roll-In Type Shower Compartments. In standard roll-in type shower compartments, the controls, faucets, and shower spray unit shall be located above the grab bar, but no higher than 48 inches (1220 mm) above the shower floor. Where a seat is provided, the controls, faucets, and shower spray unit shall be installed on the back wall adjacent to the seat wall and shall be located 27 inches (685 mm) maximum from the seat wall.

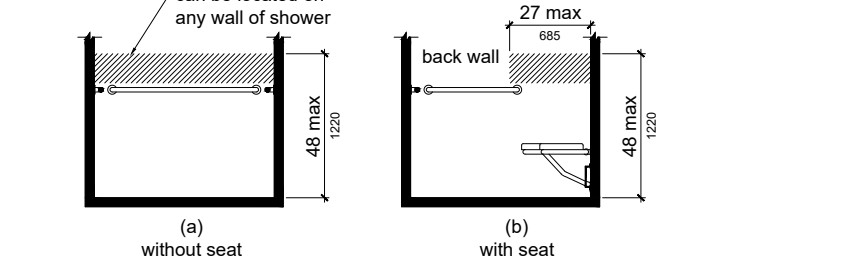


Figure 608.5.2 Standard Roll-In Type Shower Compartment Control Location

608.5.3 Alternate Roll-In Type Shower Compartments. In alternate roll-in type shower bar, but no higher than 48 inches (1220 mm) above the shower floor. Where a seat is provided, the controls, faucets, and shower spray unit shall be located on the side wall

shower spray unit shall be installed on the side wall farthest from the compartment entry.

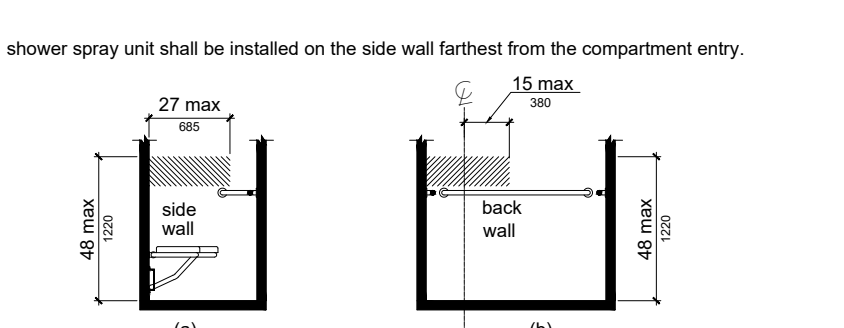


Figure 608.5.3 Alternate Roll-In Type Shower Compartment Control Location

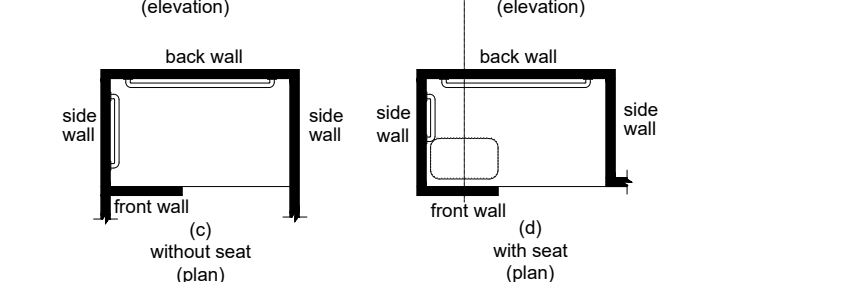


Figure 608.5.3 Alternate Roll-In Type Shower Compartment Control Location

608.6 Shower Spray Unit and Water. A shower spray unit with a hose 59 inches (1500 mm) long minimum that can be used both as a fixed-position shower head and as a hand-held shower shall be provided. The shower spray unit shall have an on/off control with a non-positive shut-off. If an adjustable-height shower head on a vertical bar is used, the bar shall be installed so as not to obstruct the use of grab bars. Shower spray units shall deliver water that is 120°F (49°C) maximum.

608.7 Thresholds. Thresholds in roll-in type shower compartments shall be 1/2 inch (13 mm) high maximum in accordance with 303. In transfer type shower compartments, thresholds 1/2 inch (13 mm) high maximum shall be beveled, rounded, or vertical.

608.8 Shower Enclosures. Enclosures for shower compartments shall not obstruct controls, faucets, and shower spray units or obstruct transfer from wheelchairs onto shower seats.

609 Grab Bars

609.1 General. Grab bars in toilet facilities and bathing facilities shall comply with 609.

609.2 Cross Section. Grab bars shall have a cross section complying with 609.2.1 or 609.2.2.

609.2.1 Circular Cross Section. Grab bars with circular cross sections shall have an outside diameter of 1 1/4 inches (32 mm) minimum and 2 inches (51 mm) maximum.

609.2.2 Non-Circular Cross Section. Grab bars with non-circular cross sections shall have a cross-section dimension of 2 inches (51 mm) maximum and a perimeter dimension of 4 inches (100 mm) minimum and 4.8 inches (120 mm) maximum.

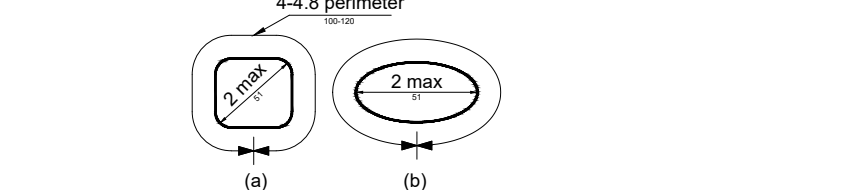


Figure 609.2.2 Non-Circular Cross Section

609.3 Spacing. The space between the wall and the grab bar shall be 1 1/2 inches (38 mm). The space between the wall and the grab bar and projecting objects below and at the ends shall be 1 1/2 inches (38 mm) minimum. The space between the grab bar and projecting objects above shall be 12 inches (305 mm) minimum.

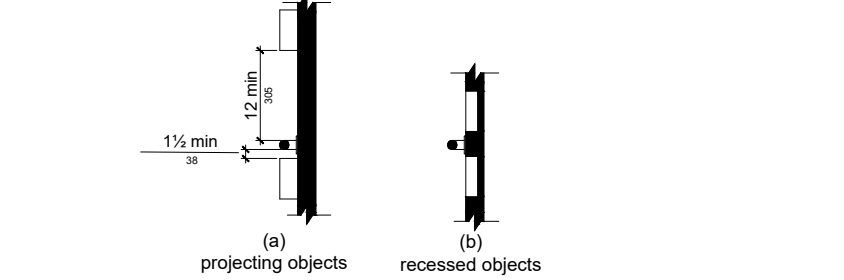


Figure 609.3 Spacing of Grab Bars

609.4 Position of Grab Bars. Grab bars shall be installed in a horizontal position, 33 inches (840 mm) minimum and 36 inches (915 mm) maximum above the finish floor measured to the top of the gripping surface, except that at water closets for children's use complying with 604.9, grab bars shall be installed in a horizontal position 18 inches (455 mm) minimum and 27 inches (685 mm) maximum above the finish floor measured to the top of the gripping surface. The height of the lower grab bar on the back wall of a bathtub shall comply with 607.4.1.1 or 607.4.2.1.

609.5 Surface Hazards. Grab bars and any wall or other surfaces adjacent to grab bars shall be free of sharp or abrasive elements and shall have rounded edges.

609.6 Fittings. Grab bars shall not rotate within their fittings.

609.7 Installation. Grab bars shall be installed in any manner that provides a gripping surface at the specified locations and that does not obstruct the required clear floor space.

609.8 Structural Strength. Allowable stresses shall not be exceeded for materials used when a vertical or horizontal force of 250 pounds (1112 N) is applied at any point on the grab bar, fastener, mounting device, or supporting structure.

610 Seats

610.2 Bathtub Seats. The top of bathtub seats shall be 17 inches (430 mm) minimum and 19 inches (485 mm) maximum above the bathroom finish floor. The depth of a removable in-tub seat shall be 15 inches (380 mm) minimum and 16 inches (405 mm) maximum. The seat shall be capable of secure placement. Permanent seats at the head end of the bathtub shall be 15 inches (380 mm) deep minimum and shall extend from the back wall to or beyond the outer edge of the bathtub.

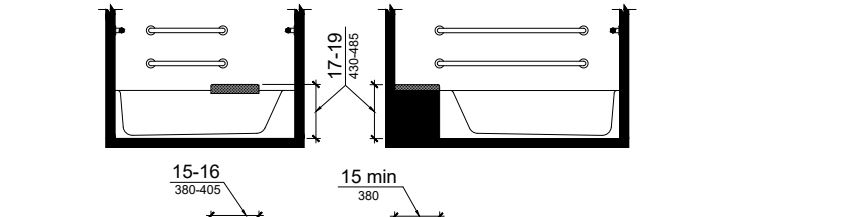


Figure 610.2 Bathtub Seats

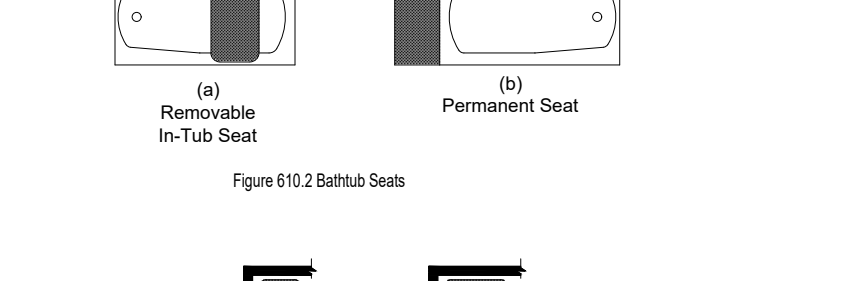


Figure 610.3 Extent of Seat

610.3.1 Rectangular Shower Seats. Where a seat is provided in a standard roll-in shower compartment, it shall be a folding type, shall be installed on the side wall adjacent to the controls, and shall extend from the back wall to a point within 3 inches (75 mm) of the compartment entry. Where a seat is provided in an alternate roll-in type shower compartment, it shall be a folding type, shall be installed on the front wall opposite the back wall, and shall extend from the adjacent side wall to a point within 3 inches (75 mm) of the compartment entry. In transfer-type showers, the seat shall extend from the back wall to a point within 3 inches (75 mm) of the compartment entry. The top of the seat shall be 17 inches (430 mm) minimum and 19 inches (485 mm) maximum above the bathroom finish floor. Seats shall comply with 610.3.1 or 610.3.2.

610.3.2 L-Shaped Seats. The rear edge of an L-shaped seat shall be 2 1/2 inches (64 mm) maximum and the front edge 15 inches (380 mm) minimum and 16 inches (405 mm) maximum from the seat wall. The rear edge of the "L" portion of the seat shall be 1 1/2 inches (38 mm) maximum from the wall and the front edge shall be 14 inches (355 mm) minimum and 15 inches (380 mm) maximum from the wall. The end of the "L" shall be 22 inches (560 mm) minimum and 23 inches maximum (585 mm) from the main seat wall.

610.4 Structural Strength. Allowable stresses shall not be exceeded for materials used when a vertical or horizontal force of 250 pounds (1112 N) is applied at any point on the seat, fastener, mounting device, or supporting structure.

611 Washing Machines and Clothes Dryers

611.2 Clear Floor Space. A clear floor or ground space complying with 305 positioned for parallel approach shall be provided. The clear floor or ground space shall be centered on the appliance.

611.3 Operable Parts. Operable parts, including doors, lint screens, and detergent and bleach compartments shall comply with 309.

611.4 Height. Top loading machines shall have the door to the laundry compartment located 36 inches (915 mm) maximum above the finish floor. Front loading machines shall have the bottom of the opening to the laundry compartment located 15 inches (380 mm) minimum and 36 inches (915 mm) maximum above the finish floor.

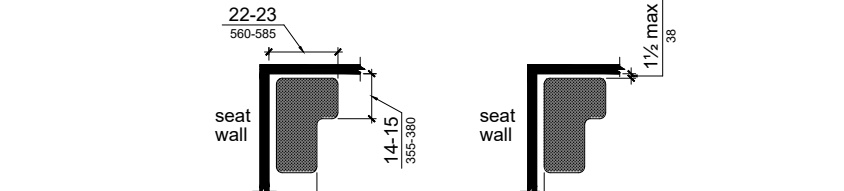


Figure 611.4 Height of Laundry Compartment Opening

612 Saunas and Steam Rooms

612.2 Bench. Where seating is provided in saunas and steam rooms, at least one bench shall comply with 803. Doors shall not swing into the clear floor space required by 803.2.

612.3 Turning Space. A turning space complying with 304 shall be provided within saunas and steam rooms

CHAPTER 7: COMMUNICATION ELEMENTS AND FEATURES

702 Fire Alarm Systems

702.1 General. Fire alarm systems shall have permanently installed audible and visible alarms complying with NFPA 72 (1999 or 2002 edition) (incorporated by reference, see "Referenced Standards" in Chapter 1), except that the maximum allowable sound level of audible notification appliances complying with section 4-3.2.1 of NFPA 72 (1999 edition) shall have a sound level no more than 110 dB at the minimum hearing distance from the audible appliance. In addition, alarms in guest rooms required to provide communication features shall comply with sections 4-3 and 4-4 of NFPA 72 (1999 edition) or sections 7.4 and 7.5 of NFPA 72 (2002 edition).

703 Signs

703.1 General. Signs shall comply with 703. Where both visual and tactile characters are required, either one sign with both visual and tactile characters, or two separate signs, one with visual, and one with tactile characters, shall be provided.

703.2 Raised Characters. Raised characters shall comply with 703.2 and shall be duplicated in braille complying with 703.3. Raised characters shall be installed in accordance with 703.4.

703.2.1 Depth. Raised characters shall be 1/32 inch (0.8 mm) minimum above their background.

703.2.2 Case. Characters shall be uppercase.

703.2.3 Style. Characters shall be sans serif. Characters shall not be italic, oblique, script, highly decorative, or of other unusual forms.

703.2.4 Character Proportions. Characters shall be selected from fonts where the width of the uppercase letter "O" is 55 percent minimum and 110 percent maximum of the height of the uppercase letter "Y".

703.2.5 Character Height. Character height measured vertically from the baseline of the character shall be 5/8 inch (16 mm) minimum and 2 inches (51 mm) maximum based on the height of the uppercase letter "Y".

703.2.6 Stroke Thickness. Stroke thickness of the uppercase letter "Y" shall be 15 percent maximum of the height of the character.

703.2.7 Character Spacing. Character spacing shall be measured between the two closest points of adjacent raised characters within a message, excluding word spaces. Where characters have rectangular cross sections, spacing between individual raised characters shall be 10 percent minimum and 35 percent maximum of character height.

703.2.8 Line Spacing. Spacing between the baselines of separate lines of characters within a message shall be 135 percent minimum and 170 percent maximum of the character height.

703.2.9 Braille. Braille shall be contracted (Grade 2) and shall comply with 703.3 and 703.4.

703.3.1 Dimensions and Capitalization. Braille dots shall have a domed or rounded shape and shall comply with Table 703.3.1. The indication of an uppercase letter or letters shall only be used before the first word of sentences, proper nouns and names, individual letters of the alphabet, initials, and acronyms.

703.3.2 Position. Braille shall be positioned below the corresponding text. If text is multi-lined, braille shall be placed below the entire text. Braille shall be separated 3/8 inch (9.5 mm) maximum from any other tactile characters and 3/8 inch (9.5 mm) minimum from raised borders and decorative elements.

703.3.3 Braille Measurement. Braille measurement shall be taken from the center of the Braille cell to the center of the next Braille cell.

703.3.4 Installation Height and Location. Signs with tactile characters shall comply with 703.4.

703.4.1 Height Above Finish Floor or Ground. Tactile characters on signs shall be located 48 inches (1220 mm) minimum above the finish floor or ground surface, measured from the baseline of the lowest tactile character and 60 inches (1525 mm) maximum above the finish floor or ground surface, measured from the baseline of the highest tactile character.

703.4.2 Location. Where a tactile sign is provided at a door, the sign shall be located alongside the door at the latch side. Where a tactile sign is provided at double doors with one active leaf, the sign shall be located on the inactive leaf. Where a tactile sign is provided at double doors with two active leaves, the sign shall be located to the right of the right hand door. Where there is no wall space at the latch side of a single door or at the right side of double doors, signs shall be located on the nearest adjacent wall. Signs containing tactile characters shall be located so that a clear floor space of 18 inches (455 mm) minimum by 18 inches (455 mm) minimum, centered on the tactile characters, is provided beyond the arc of any door swing between the closed position and 45 degree open position.

703.4.3 Location. Where a tactile sign is provided at a door, the sign shall be located alongside the door at the latch side. Where a tactile sign is provided at double doors with one active leaf, the sign shall be located on the inactive leaf. Where a tactile sign is provided at double doors with two active leaves, the sign shall be located to the right of the right hand door. Where there is no wall space at the latch side of a single door or at the right side of double doors, signs shall be located on the nearest adjacent wall. Signs containing tactile characters shall be located so that a clear floor space of 18 inches (455 mm) minimum by 18 inches (455 mm) minimum, centered on the tactile characters, is provided beyond the arc of any door swing between the closed position and 45 degree open position.

703.4.4 Location. Where a tactile sign is provided at a door, the sign shall be located alongside the door at the latch side. Where a tactile sign is provided at double doors with one active leaf, the sign shall be located on the inactive leaf. Where a tactile sign is provided at double doors with two active leaves, the sign shall be located to the right of the right hand door. Where there is no wall space at the latch side of a single door or at the right side of double doors, signs shall be located on the nearest adjacent wall. Signs containing tactile characters shall be located so that a clear floor space of 18 inches (455 mm) minimum by 18 inches (455 mm) minimum, centered on the tactile characters, is provided beyond the arc of any door swing between the closed position and 45 degree open position.

703.4.5 Location. Where a tactile sign is provided at a door, the sign shall be located alongside the door at the latch side. Where a tactile sign is provided at double doors with one active leaf, the sign shall be located on the inactive leaf. Where a tactile sign is provided at double doors with two active leaves, the sign shall be located to the right of the right hand door. Where there is no wall space at the latch side of a single door or at the right side of double doors, signs shall be located on the nearest adjacent wall. Signs containing tactile characters shall be located so that a clear floor space of 18 inches (455 mm) minimum by 18 inches (455 mm) minimum, centered on the tactile characters, is provided beyond the arc of any door swing between the closed position and 45 degree open position.

703.4.6 Location. Where a tactile sign is provided at a door, the sign shall be located alongside the door at the latch side. Where a tactile sign is provided at double doors with one active leaf, the sign shall be located on the inactive leaf. Where a tactile sign is provided at double doors with two active leaves, the sign shall be located to the right of the right hand door. Where there is no wall space at the latch side of a single door or at the right side of double doors, signs shall be located on the nearest adjacent wall. Signs containing tactile characters shall be located so that a clear floor space of 18 inches (455 mm) minimum by 18 inches (455 mm) minimum, centered on the tactile characters, is provided beyond the arc of any door swing between the closed position and 45 degree open position.

703.4.7 Location. Where a tactile sign is provided at a door, the sign shall be located alongside the door at the latch side. Where a tactile sign is provided at double doors with one active leaf, the sign shall be located on the inactive leaf. Where a tactile sign is provided at double doors with two active leaves, the sign shall be located to the right of the right hand door. Where there is no wall space at the latch side of a single door or at the right side of double doors, signs shall be located on the nearest adjacent wall. Signs containing tactile characters shall be located so that a clear floor space of 18 inches (455 mm) minimum by 18 inches (455 mm) minimum, centered on the tactile characters, is provided beyond the arc of any door swing between the closed position and 45 degree open position.

703.4.8 Location. Where a tactile sign is provided at a door, the sign shall be located alongside the door at the latch side. Where a tactile sign is provided at double doors with one active leaf, the sign shall be located on the inactive leaf. Where a tactile sign is provided at double doors with two active leaves, the sign shall be located to the right of the right hand door. Where there is no wall space at the latch side of a single door or at the right side of double doors, signs shall be located on the nearest adjacent wall. Signs containing tactile characters shall be located so that a clear floor space of 18 inches (455 mm) minimum by 18 inches (455 mm) minimum, centered on the tactile characters, is provided beyond the arc of any door swing between the closed position and 45 degree open position.

703.4.9 Location. Where a tactile sign is provided at a door, the sign shall be located alongside the door at the latch side. Where a tactile sign is provided at double doors with one active leaf, the sign shall be located on the inactive leaf. Where a tactile sign is provided at double doors with two active leaves, the sign shall be located to the right of the right hand door. Where there is no wall space at the latch side of a single door or at the right side of double doors, signs shall be located on the nearest adjacent wall. Signs containing tactile characters shall be located so that a clear floor space of 18 inches (455 mm) minimum by 18 inches (455 mm) minimum, centered on the tactile characters, is provided beyond the arc of any door swing between the closed position and 45 degree open position.

703.4.10 Location. Where a tactile sign is provided at a door, the sign shall be located alongside the door at the latch side. Where a tactile sign is provided at double doors with one active leaf, the sign shall be located on the inactive leaf. Where a tactile sign is provided at double doors with two active leaves, the sign shall be located to the right of the right hand door. Where there is no wall space at the latch side of a single door or at the right side of double doors, signs shall be located on the nearest adjacent wall. Signs containing tactile characters shall be located so that a clear floor space of 18 inches (455 mm) minimum by 18 inches (455 mm) minimum, centered on the tactile characters, is provided beyond the arc of any door swing between the closed position and 45 degree open position.

703.4.11 Location. Where a tactile sign is provided at a door, the sign shall be located alongside the door at the latch side. Where a tactile sign is provided at double doors with one active leaf, the sign shall be located on the inactive leaf. Where a tactile sign is provided at double doors with two active leaves, the sign shall be located to the right of the right hand door. Where there is no wall space at the latch side of a single door or at the right side of double doors, signs shall be located on the nearest adjacent wall. Signs containing tactile characters shall be located so that a clear floor space of 18 inches (455 mm) minimum by 18 inches (455 mm) minimum, centered on the tactile characters, is provided beyond the arc of any door swing between the closed position and 45 degree open position.

703.4.12 Location. Where a tactile sign is provided at a door, the sign shall be located alongside the door at the latch side. Where a tactile sign is provided at double doors with one active leaf, the sign shall be located on the inactive leaf. Where a tactile sign is provided at double doors with two active leaves, the sign shall be located to the right of the right hand door. Where there is no wall space at the latch side of a single door or at the right side of double doors, signs shall be located on the nearest adjacent wall. Signs containing tactile characters shall be located so that a clear floor space of 18 inches (455 mm) minimum by 18 inches (455 mm) minimum, centered on the tactile characters, is provided beyond the arc of any door swing between the closed position and 45 degree open position.

703.4.13 Location. Where a tactile sign is provided at a door, the sign shall be located alongside the door at the latch side. Where a tactile sign is provided at double doors with one active leaf, the sign shall be located on the inactive leaf. Where a tactile sign is provided at double doors with two active leaves, the sign shall be located to the right of the right hand door. Where there is no wall space at the latch side of a single door or at the right side of double doors, signs shall be located on the nearest adjacent wall. Signs containing tactile characters shall be located so that a clear floor space of 18 inches (455 mm) minimum by 18 inches (455 mm) minimum, centered on the tactile characters, is provided beyond the arc of any door swing between the closed position and 45 degree open position.

703.2.6 Stroke Thickness. Stroke thickness of the uppercase letter "Y" shall be 15 percent maximum of the height of the character.

703.2.7 Character Spacing. Character spacing shall be measured between the two closest points of adjacent raised characters within a message, excluding word spaces. Where characters have rectangular cross sections, spacing between individual raised characters shall be 1/8 inch (3.2 mm) minimum and 4 times the raised character stroke width maximum. Where characters have other cross sections, spacing between individual raised characters shall be 1/16 inch (1.6 mm) minimum and 4 times the raised character stroke width maximum at the base of the cross sections, and 1/8 inch (3.2 mm) minimum and 4 times the raised character stroke width maximum at the top of the cross sections. Characters shall be separated from raised borders and decorative elements 3/8 inch (9.5 mm) minimum.

703.2.8 Line Spacing. Spacing between the baselines of separate lines of raised characters within a message shall be 135 percent minimum and 170 percent maximum of the raised character height.

703.3 Braille. Braille shall be contracted (Grade 2) and shall comply with 703.3 and 703.4.

703.3.1 Dimensions and Capitalization. Braille dots shall have a domed or rounded shape and shall comply with Table 703.3.1. The indication of an uppercase letter or letters shall only be used before the first word of sentences, proper nouns and names, individual letters of the alphabet, initials, and acronyms.

703.3.2 Position. Braille shall be positioned below the corresponding text. If text is multi-lined, braille shall be placed below the entire text. Braille shall be separated 3/8 inch (9.5 mm) maximum from any other tactile characters and 3/8 inch (9.5 mm) minimum from raised borders and decorative elements.

703.3.3 Braille Measurement. Braille measurement shall be taken from