

# OFFICE WAREHOUSE

101 Orange St, La Marque, TX 77568

The drawings and specifications as instruments of service are and shall remain the property of the Designer. They are not to be used on other projects or extensions to this project except by agreement in writing and with appropriate compensation to the Designer. Contractor is responsible for confirming and verifying dimensions at job site; the Designer will not be responsible for construction means, methods, techniques, sequences or procedures; or for safety precautions and programs in connection with the project.

CONSULTANTS:

CIVIL:

STRUCTURAL:

MEP:

**OFFICE WAREHOUSE**  
 101 Orange St, La Marque, TX 77568

ISSUED FOR:

REVISIONS:



**DIAZ GROUP LLC**

SHEET TITLE:

**COVER SHEET**

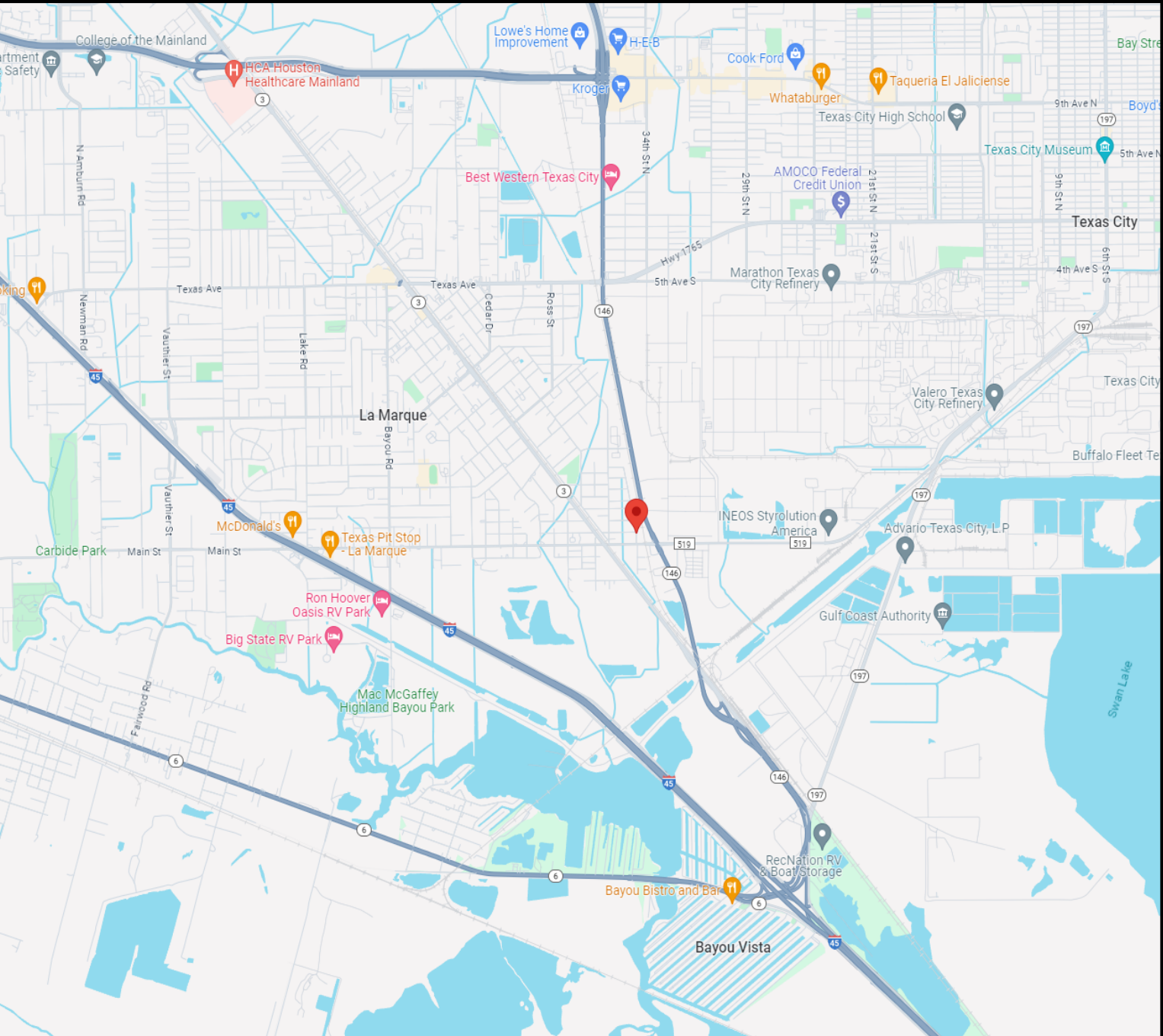
SCALE:

DATE: 2/4/2025 12:43:05 PM

JOB No.: Project Number

SHEET No.:

**CS**

CODE SUMMARY	DRAWING INDEX	PROJECT DATA	PROJECT INFO.
<p><b>BUILDING CODE</b></p> <ul style="list-style-type: none"> <li>- 2018 INTERNATIONAL BUILDING CODE</li> <li>- 2018 INTERNATIONAL FIRE CODE</li> <li>- 2017 NATIONAL ELECTRICAL CODE</li> <li>- 2018 INTERNATIONAL PLUMBING CODE</li> <li>- 2018 INTERNATIONAL ENERGY CONSERVATION CODE</li> </ul> <p><b>TYPE OF CONSTRUCTION</b></p> <ul style="list-style-type: none"> <li>- TYPE II-B</li> </ul> <p><b>MEP PERMITS</b></p> <ul style="list-style-type: none"> <li>- TO BE THE RESPONSIBILITY OF THE GEN. CONTRACTOR &amp; LICENSED SUB-CONTRACTORS.</li> </ul> <p><b>OCUPPANT LOAD</b></p> <p>GROUP B (BUSINESS)= 2,400 SQ.FT.</p> <p><b>WAREHOUSE</b> 2,058/500 GROSS= 5 OCC.</p> <p><b>BUSINESS</b> 342/150 GROSS= 3 OCC.</p> <p>TOTAL= 8 OCC.</p> <p><b>PLUMBING FIXTURES COUNT</b></p> <p><b>BUSINESS</b></p> <p>WATER CLOSET 1 per 25 (1 PROPOSED)</p> <p>LAVATORIES 1 per 40 (1 PROPOSE)</p> <p><b>EGRESS WIDTH REQUIRED</b></p> <p>8 OCC @ 0.2" OCC= <b>1.6" REQUIRED</b></p> <p><b>EGRESS WIDTH PROVIDED</b></p> <p>1 EXITS FRONT 3'-0" 1 EXIT REAR 3'-0" <b>TOTAL= 72"</b></p>	<p><b>ARCHITECTURAL</b></p> <p>A100 - SITE PLAN A101 - ARCITECTURAL FINISH FLOOR A102 - RCP A103 - ROOF PLAN &amp; SECTIONS A104 - CONSTRUCTIONS SPECS. A105 - ELEVATIONS A200 - ADA ARCHITECTURAL SPECS. A201 - ADA ARCHITECTURAL SPECS.</p>	<p><b>LEGAL JURISDICTION</b> -CITY OF LA MARQUE</p> <p><b>NUMBER OF BUILDINGS:</b> - 01</p> <p><b>NUMBER OF FLOORS:</b> - 01</p> <p><b>OCCUPANCY GROUP(S) CLASSIFICATION:</b> - GROUP B (BUSINESS)</p> <p><b>FIRE SPRINKLERED:</b> - NOT REQUIRED</p> <p><b>FIRE ALARM:</b> - NOT REQUIRED</p> <p><b>OCCUPANT LOAD:</b> - 8 OCC</p> <p><b>ALLOWABLE BUILDING AREA:</b> - 23,000 SQ.FT.</p> <p><b>ACTUAL BUILDING AREA:</b> - 2,400 SQ.FT.</p> <p><b>ALLOWABLE BUILDING HEIGHT:</b> - 55'-0"</p> <p><b>ACTUAL BUILDING HEIGHT:</b> - 19'-0"</p>	<p><b>DESIGNER</b> <u>SEAL:</u></p> <p><b>DIAZ GROUP LLC</b> 11215 SAGEWAY DR HOUSTON, TEXAS 77089 (281)901-9373 diazgrouph@gmail.com</p> <p><b>MEP ENGINEERING:</b> <u>SEAL:</u></p> <p><b>VICINITY MAP</b></p> 
<p><b>GENERAL CONTRACTOR NOTE:</b> CONTRACTOR SHALL NOTIFY DIAZ GROUP LLC AND OWNER FOR ANY DISCREPANCY, ERRORS OR OMISSIONS BETWEEN DRAWINGS BEFORE CONSTRUCTION OR TO ORDER ANY SUPPLY RELATED TO THIS PROJECT.</p>			

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CIVIL:

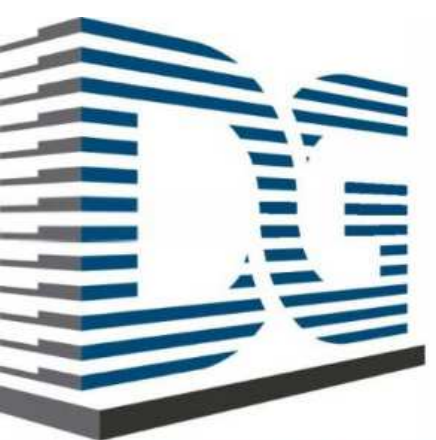
STRUCTURAL:

MEP:

**OFFICE WAREHOUSE**  
101 Orange St, La Marque, TX 77568

ISSUED FOR:

REVISIONS:



**DIAZ GROUP LLC**

SHEET TITLE:

**SITE PLAN**

SCALE: As indicated

DATE: 2/4/2025 12:43:05 PM

JOB No.: Project Number

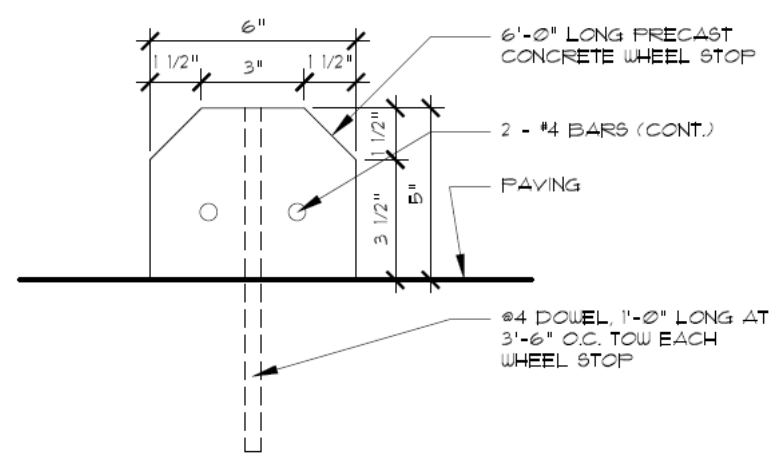
SHEET No.:

**A100**

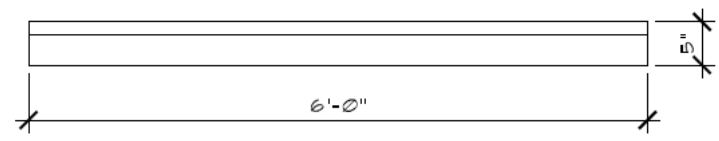
**ORANGE STREET**  
(80' R.O.W.)

PROPOSED AREA ANALYSIS	
BUILDING:	2,400 SQ.FT.
PAVING:	2,280 SQ.FT.
TOTAL:	4,680 SQ.FT.
LOT SIZE:	12,250 SQ.FT.
IMPERVIOUS COVERED:	45.65%

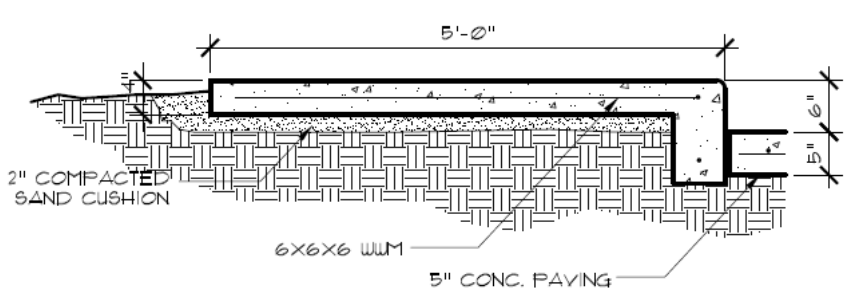
WHEEL STOP DETAIL (SECTION)



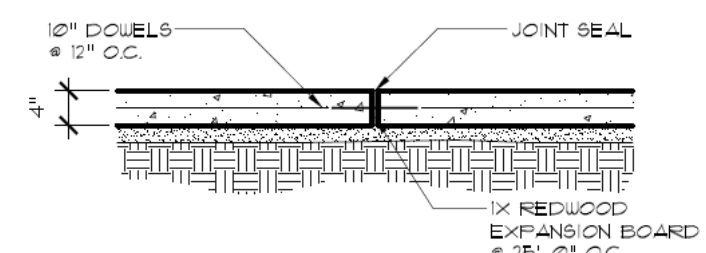
WHEEL STOP DETAIL (TOP)



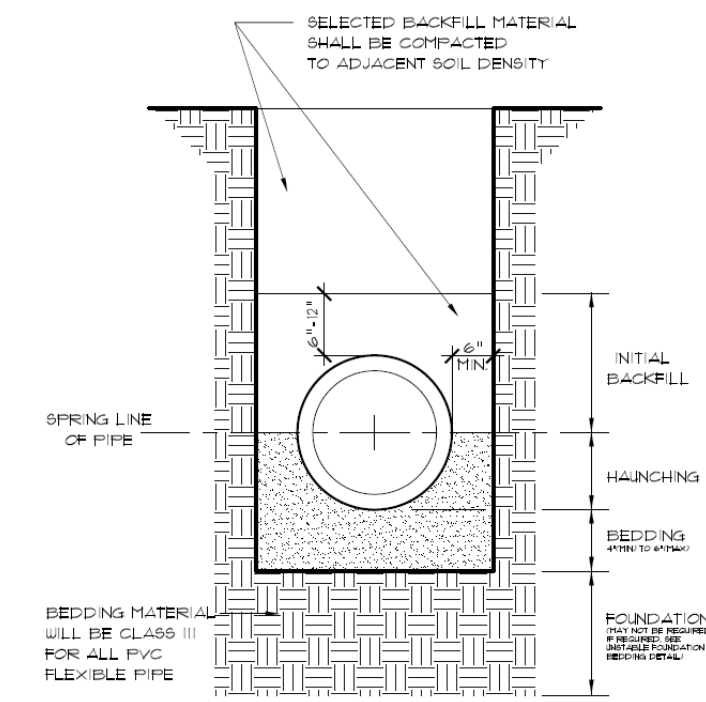
SIDEWALK DETAIL



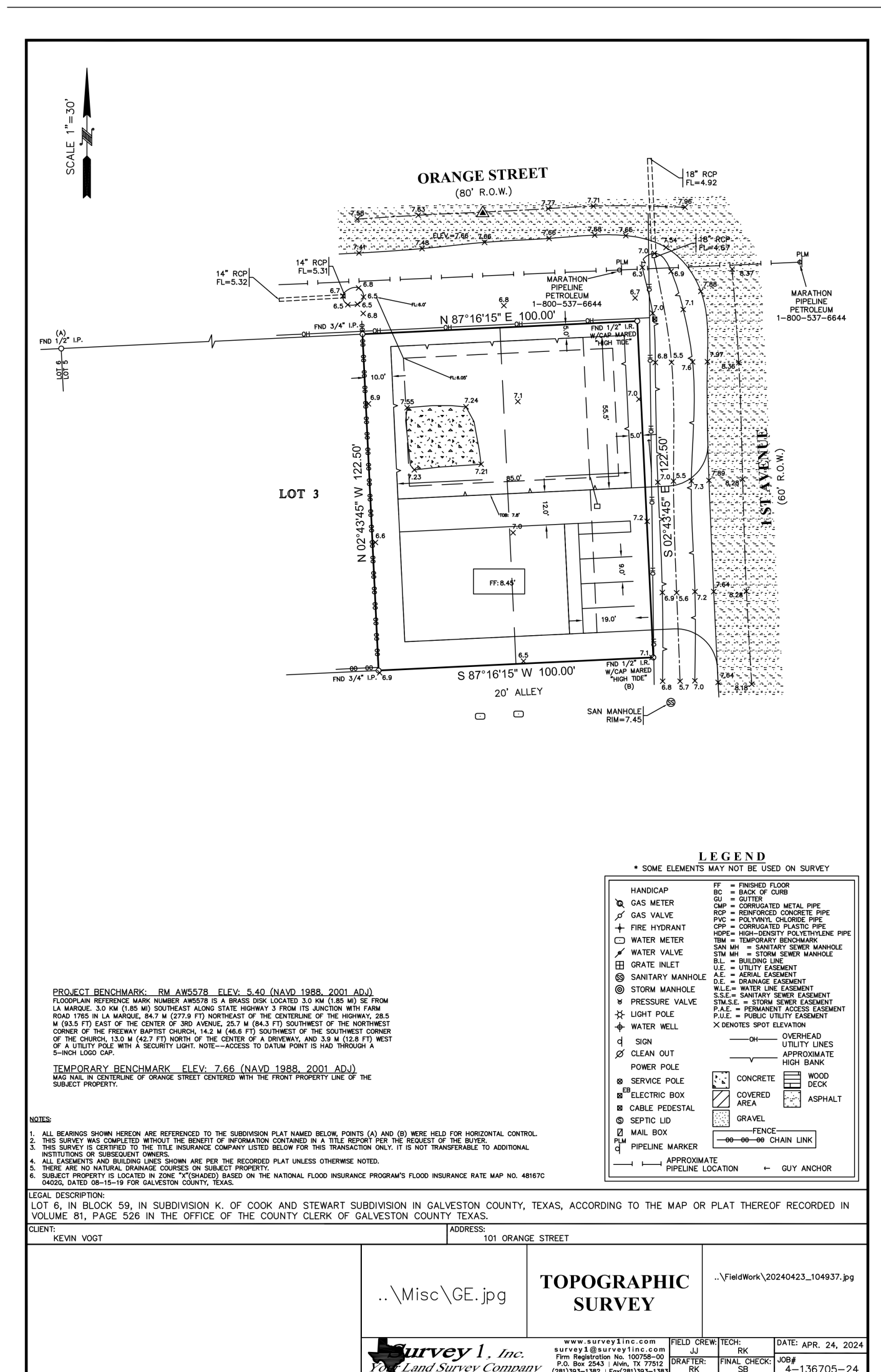
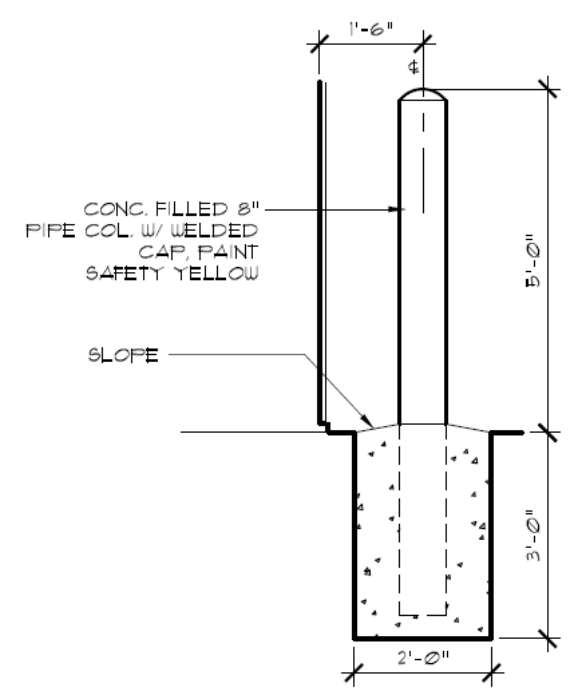
CONTROL JOIN DETAIL



BEDDING DETAIL



BOLLARD DETAIL



LEGEND

○ HANDICAP	○ 12" RCP
○ GAS METER	○ 14" RCP
○ GAS VALVE	○ 18" RCP
○ FIRE HYDRANT	○ MARATHON PIPELINE
○ WATER METER	○ MARATHON PIPELINE
○ WATER VALVE	○ MARATHON PIPELINE
○ GRAPE VINE	○ MARATHON PIPELINE
○ SANITARY MANHOLE	○ MARATHON PIPELINE
○ STORM MANHOLE	○ MARATHON PIPELINE
○ PRESSURE VALVE	○ MARATHON PIPELINE
○ WATER WELL	○ MARATHON PIPELINE
○ SIGN	○ MARATHON PIPELINE
○ CLEAN OUT	○ MARATHON PIPELINE
○ POWER POLE	○ MARATHON PIPELINE
○ SERVICE BOX	○ MARATHON PIPELINE
○ ELECTRIC BOX	○ MARATHON PIPELINE
○ CABLE PRESTAL	○ MARATHON PIPELINE
○ SPECTRUM	○ MARATHON PIPELINE
○ MAIL BOX	○ MARATHON PIPELINE
○ PIPELINE MARKER	○ MARATHON PIPELINE
○ PIPELINE LOCATION	○ MARATHON PIPELINE
○ GUY ANCHOR	○ MARATHON PIPELINE

1 Site  
1" = 10'-0"

NOTE: ALTERATION, MODIFICATION, AND/OR REPRODUCTION OF THIS DRAWING IS STRICTLY PROHIBITED BY ANYONE OTHER THAN DIAZ GROUP

**WALL, WATER RESISTANCE NOTE:**

GYPSUM BOARD USED IN AREAS SUBJECT TO SPLASH SUCH AS WATER CLOSETS, TUBS, SHOWERS TO BE WATER RESISTANCE GYPSUM BOARD OR EQUIVALENT MATERIALS AS REQUIRED PER COH AMENDMENTS OF THE IBC.

**INTERIOR FINISHES**

PER TABLE 803.5

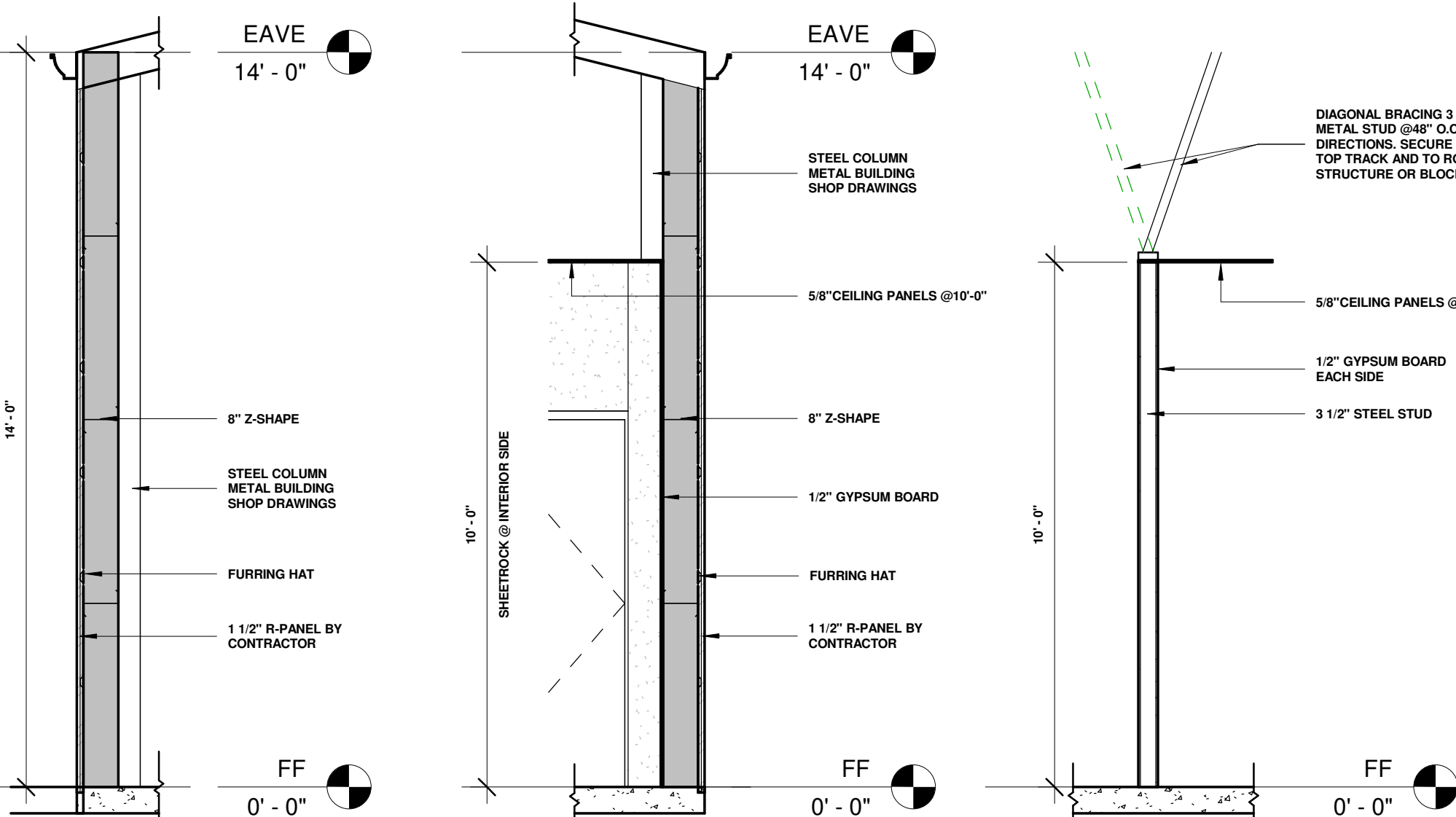
OCCUPANCY TYPE	EXIT ENCL.	CORRIDORS	ROOMS & ENCLOSED SPACES
B BUSSINES	A	B	C
S-2 STORAGE	B	B	C

INTERIOR WALL AND CEILING FINISHES SHALL BE CLASSIFIED IN ACCORDANCE WITH ASTM E 84. SUCH INTERIOR FINISHES MATERIALS SHALL BE GROUPED IN THE FOLLOWING CLASSES IN ACCORDANCE WITH THEIR FLAME SPREAD AND SMOKE-DEVELOPED INDEXES.

CLASS A: FLAME SPREAD 0-25; SMOKE-DEVELOPED 0-450  
 CLASS B: FLAME SPREAD 26-75; SMOKE-DEVELOPED 0-450  
 CLASS C: FLAME SPREAD 76-200; SMOKE-DEVELOPED 0-450

**NOTE:**  
 IN TOILETS AND BATHING ROOMS, THE FLOOR FINISH MATERIAL SHALL HAVE A SMOOTH, HARD, NONABSORBENT SURFACE. THE INTERSECTIONS OF THE SMOOTH, HARD, NONABSORBENT FLOOR SURFACE WITH THE WALL SHALL HAVE A SMOOTH, HARD, NONABSORBENT VERTICAL BASE THAT EXTENDS UPWARD ONTO THE WALLS NOT LESS THAN 4 INCHES.

**CONTRACTOR SHALL REVIEW TAS SHEETS A200 & A201 FOR ADA REQUIREMENTS.**



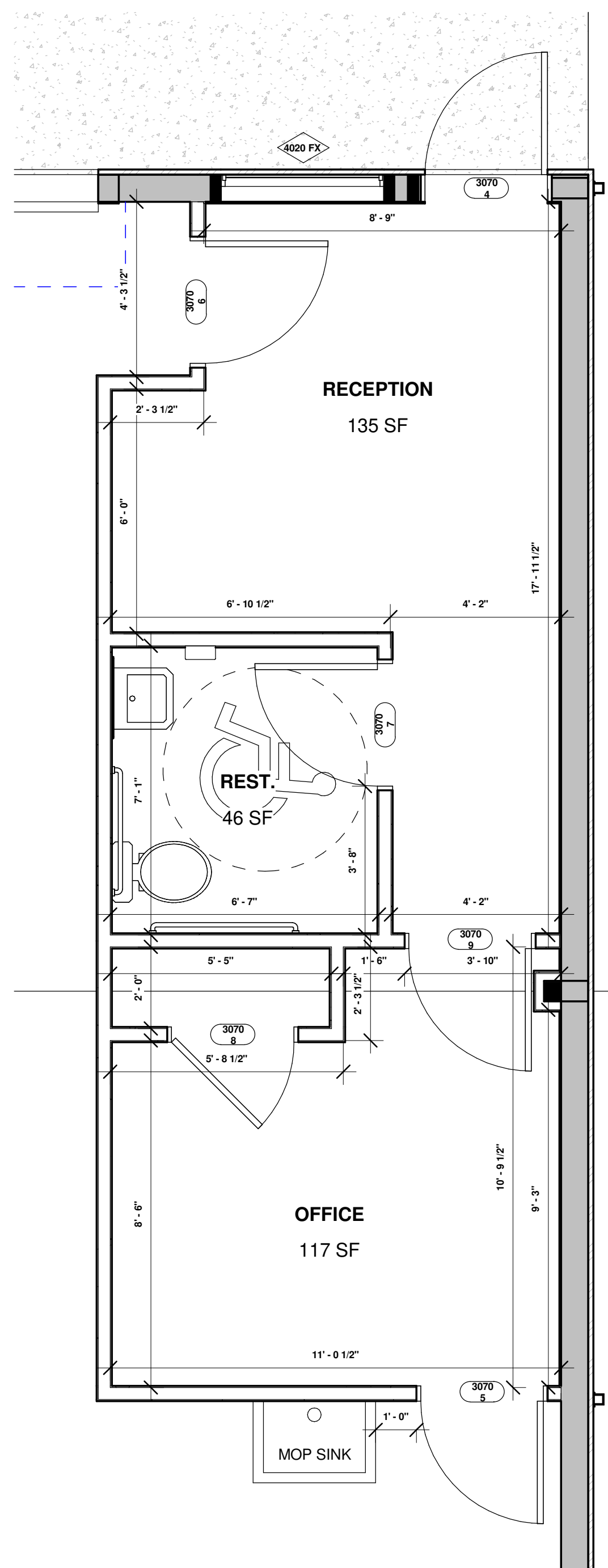
- 3 W-101 3/8" = 1'-0"
- 4 W-102 3/8" = 1'-0"
- 5 W-103 3/8" = 1'-0"

FINISHES & ROOM SCHEDULE				
NAME	BASE FINISH	WALL FINISH	CLG. FINISH	AREA
RECEPTION	TILE/RB	PAINTED SHEETROCK	2X4 PANELS	135 SF
OFFICE	TILE/RB	PAINTED SHEETROCK	2X4 PANELS	117 SF
WAREHOUSE	CONCRETE/RB	OPEN	OPEN	1,943 SF
REST.	TILE/SMOOTH	TILE/SMOOTH @48" AFF	2X4 PANELS	46 SF
				2,241 SF

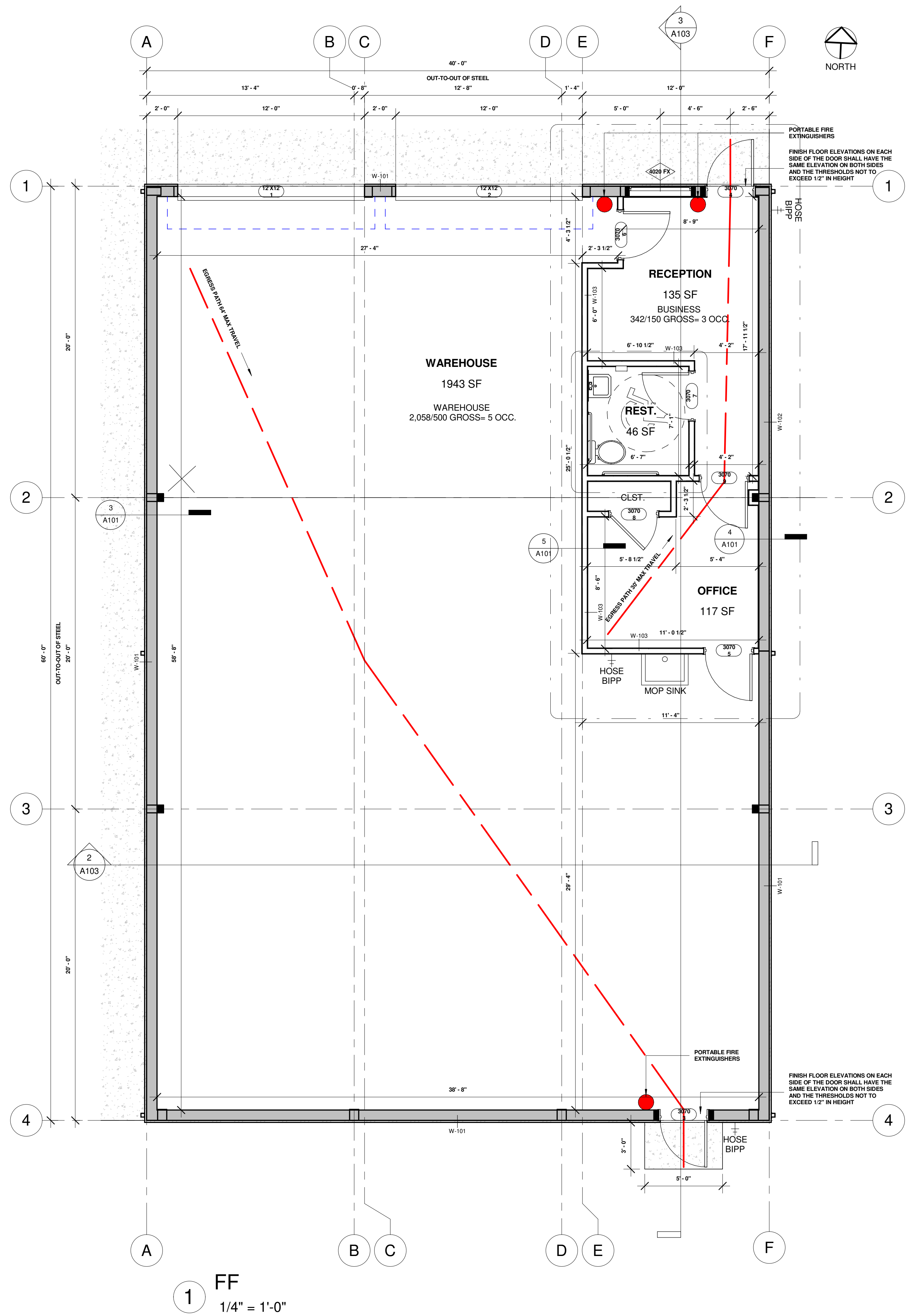
WINDOW SCHEDULE			
Type Mark	Type	Width	Height
A	4020 FX	4'-0"	2'-0"

DOOR SCHEDULE				
MARK	WIDTH	HEIGHT	FAMILY	HARDWARE
1	12'-0"	12'-0"	Door-Overhead-Rolling	NA
2	12'-0"	12'-0"	Door-Overhead-Rolling	NA
3	3'-0"	7'-0"	Door-Exterior-Single-Two_Lite	LOCK & LATCH PANIC HARDWARE
4	3'-0"	7'-0"	Door-Exterior-Single-Two_Lite	LOCK & LATCH PANIC HARDWARE
5	3'-0"	7'-0"	Door-Passage-Single-Flush	PASSAGE SET
6	3'-0"	7'-0"	Door-Passage-Single-Flush	PASSAGE SET
7	3'-0"	7'-0"	Door-Passage-Single-Flush	PRIVACY SET
8	3'-0"	7'-0"	Door-Passage-Single-Flush	DUMMY SET
9	3'-0"	7'-0"	Door-Passage-Single-Flush	PASSAGE SET

TYPE	DESCRIPTION	ASSEMBLY	DETAIL
W-101	EXTERIOR-R-PANEL WALL Thickness (in.) 1 1/2"	R-PANEL LAYER, BY CONTRACTOR Z-SHAPE, 8" DEEP Steel Studs-3/4 in. deep 25 ga. spaced max. 24 in. OC	
W-102	EXTERIOR-R-PANEL WALL Steel Stud (Non-load-bearing) Thickness (in.) 1 1/2"	R-PANEL LAYER, BY CONTRACTOR Z-SHAPE, 8" DEEP Gypsum Board - 1/2 in. thick gypsum board applied horizontally or vertically	
W-103	INTERIOR PARTITIONS Non-load-bearing Thickness (in.) 1 1/2"	Gypsum Board - 1/2 in. thick gypsum board applied horizontally or vertically Steel Studs-3/4 in. deep 25 ga. spaced max. 24 in. OC Gypsum Board - 1/2 in. thick gypsum board applied horizontally or vertically	



2 OFFICE DETAILS  
 3/8" = 1'-0"



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

METAL FRAME DIMENSION TO BE VERIFIED WITH METAL BUILDING SHOP DRAWINGS

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STRUCTURAL:

MEP:

**OFFICE WAREHOUSE**  
 101 Orange St, La Marque, TX 77568

ISSUED FOR:

REVISIONS:



SHEET TITLE:

**ARCHITECTURAL FINISH FLOOR**

SCALE: As indicated

DATE: 2/4/2025 12:43:05 PM

JOB No.: Project Number

SHEET No.:

**A101**

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**ELECTRICAL NOTE:**

THE INSTALLATION SHALL COMPLY WITH AND BE INSTALLED IN ACCORDANCE WITH ALL LEGALLY CONSTITUTED AUTHORITIES AND CODE HAVING JURISDICTION.

1. VERIFY ALL ELECTRICAL LOCATIONS WITH OWNER.
2. EXTERIOR SPOTLIGHTS TO BE ON PHOTO-ELECTRIC CELL W/ TIMER.
3. ELECTRICAL OUTLET PLATE GASKETS SHALL BE INSTALLED ON RECEPTACLE, SWITCH, AND ANY OTHER BOXES IN EXTERIOR WALL.
4. PROVIDE SEPARATE CIRCUIT FOR MICROWAVE OVEN.
5. PROVIDE SEPARATE CIRCUIT FOR PERSONAL COMPUTER. VERIFY LOCATIONS WITH OWNER.
6. ALL WIRING SHALL BE CONCEALED IN WALLS, UNDER SLAB, OR ABOVE SUSPENDED CEILING SPACE.
7. PROVIDE LIGHT AND LIGHT SWITCH AT ATTIC SPACE.

**GROUND-FAULT PROTECTION NOTE:**

PROVIDE GROUND FAULT CIRCUIT INTERRUPTER PROTECTION AS FOLLOWS:

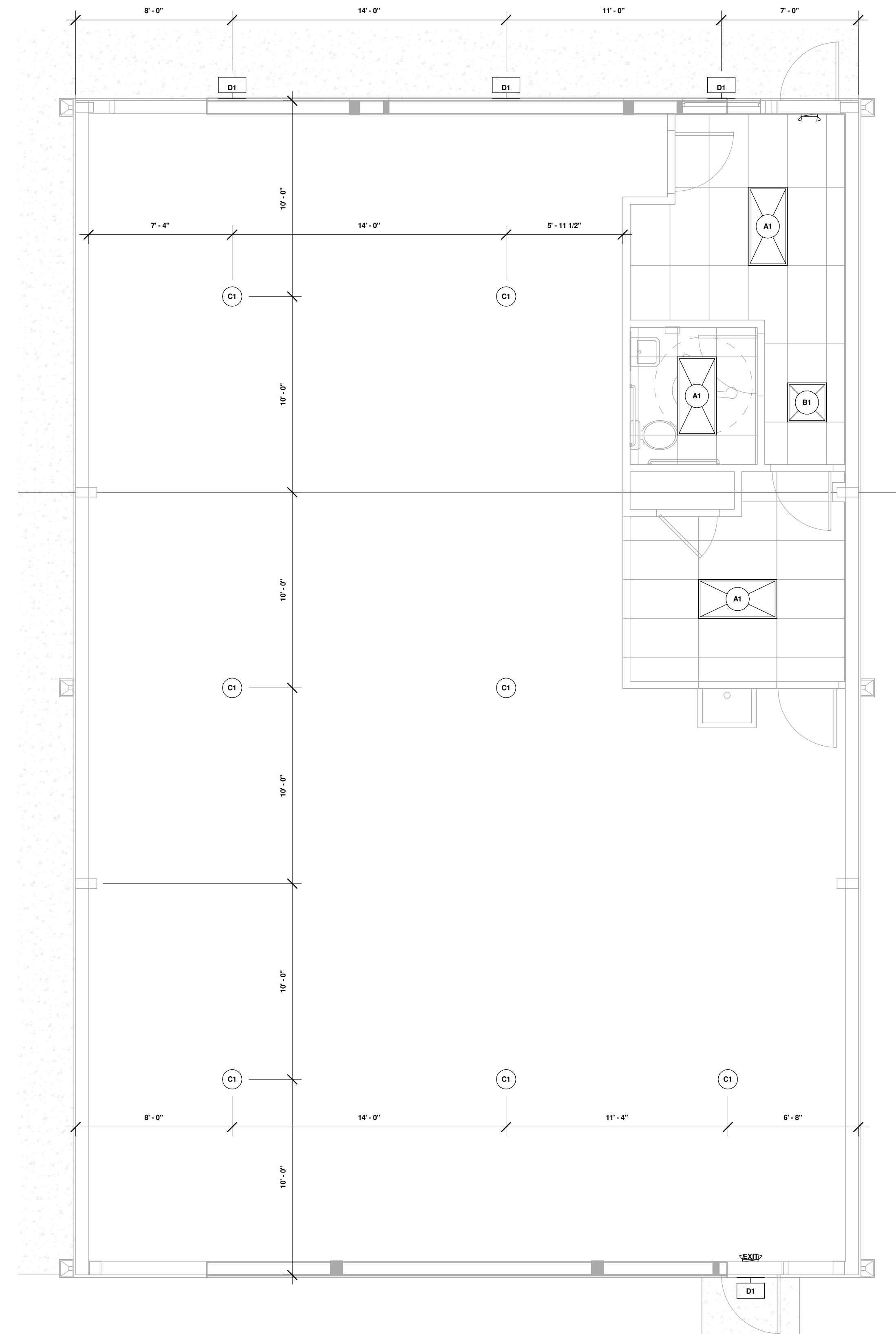
1. ALL BATHROOM OUTLETS.
2. ALL GARAGE OUTLETS.
3. ALL EXTERIOR OUTLETS.
4. ALL KITCHEN COUNTER OUTLETS WITHIN 6 FEET OF A SINK.

**SMOKE & CO DETECTOR NOTE:**

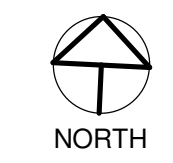
PROVIDE SMOKE & CO DETECTOR AS FOLLOWS:

1. INSTALL ALL DETECTOR IN COMPLIANCE WITH LOCAL CODE.
2. ALL DETECTORS SHALL BE HARD WIRED TO POWER SUPPLY.
3. ALL DETECTORS SHALL HAVE A BATTERY BACK UP.

ELECTRICAL SYMBOLS	
	Lighting Fixtures : LED Light - 2x4 Parabolic - 2x4(2 Lamp) - 120V
	Lighting Fixtures : LED Light - 2x2 Parabolic - 2x4(2 Lamp) - 120V
	Lighting Fixtures : Lighting Pendant Mount Delay Lighting Industrial_LED 18/7600 - 120V 18W Incandescent
	Lighting Fixtures : Wall Pack Light - Exterior - 120V
	Lighting Fixtures : Emergency Wall Light - 120V
	Electrical Fixtures : 110V DUPLEX RECEPTACLE
	Electrical Fixtures : 220V DUPLEX RECEPTACLE
	Electrical Fixtures : LIGHT SWITCH



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



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CIVIL:

STRUCTURAL:

MEP:

**OFFICE WAREHOUSE**  
101 Orange St, La Marque, TX  
77568

ISSUED FOR:

REVISIONS:



**DIAZ GROUP LLC**

SHEET TITLE:

RCP

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

DATE: 2/20/2025 10:05:49 AM

JOB No.: Project Number

SHEET No.:

**A102**

METAL FRAME DIMENSION TO BE VERIFIED WITH METAL BUILDING SHOP DRAWINGS

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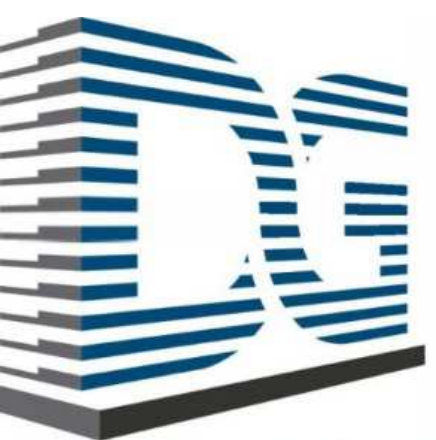
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WAREHOUSE**  
101 Orange St, La Marque, TX  
77568

ISSUED FOR:

REVISIONS:



**DIAZ GROUP LLC**

SHEET TITLE:

**ROOF PLAN &  
SECTIONS**

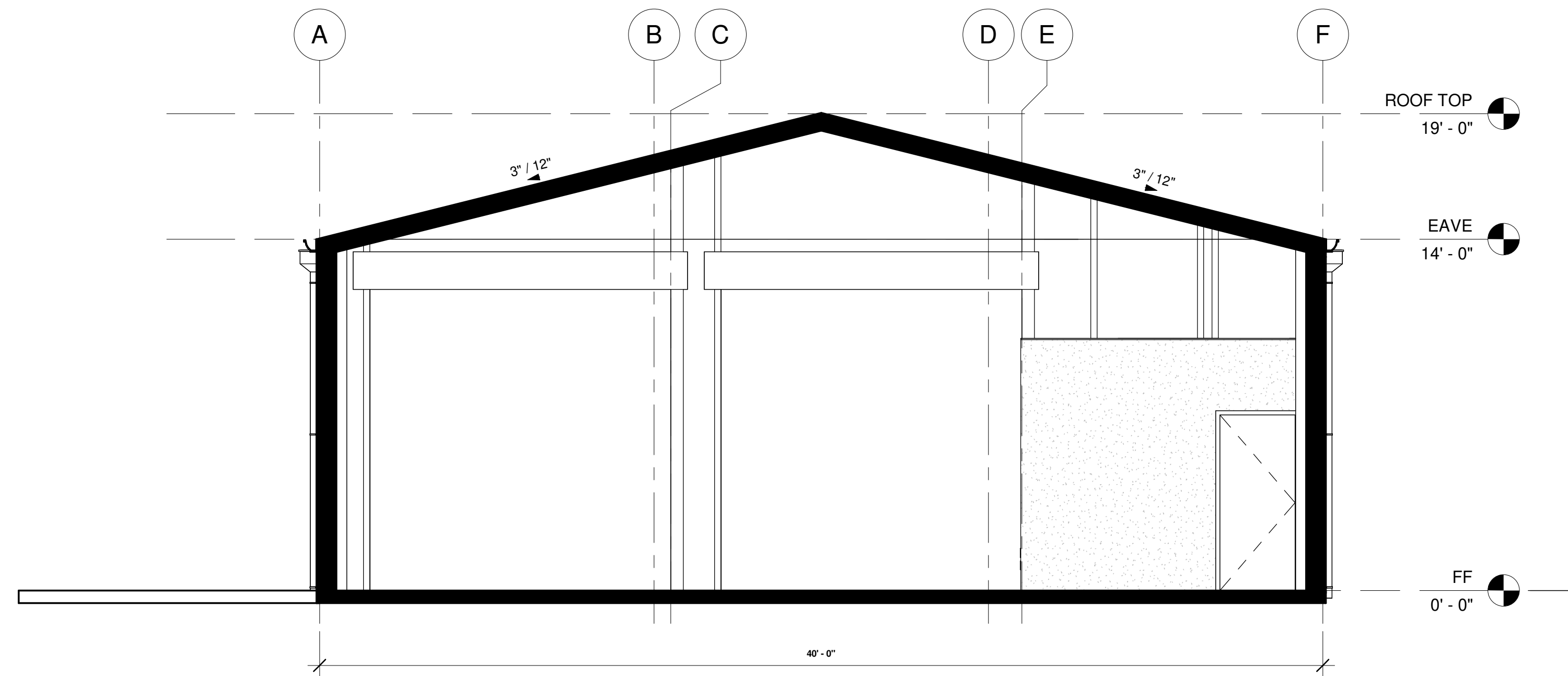
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DATE: 2/4/2025 12:43:06 PM

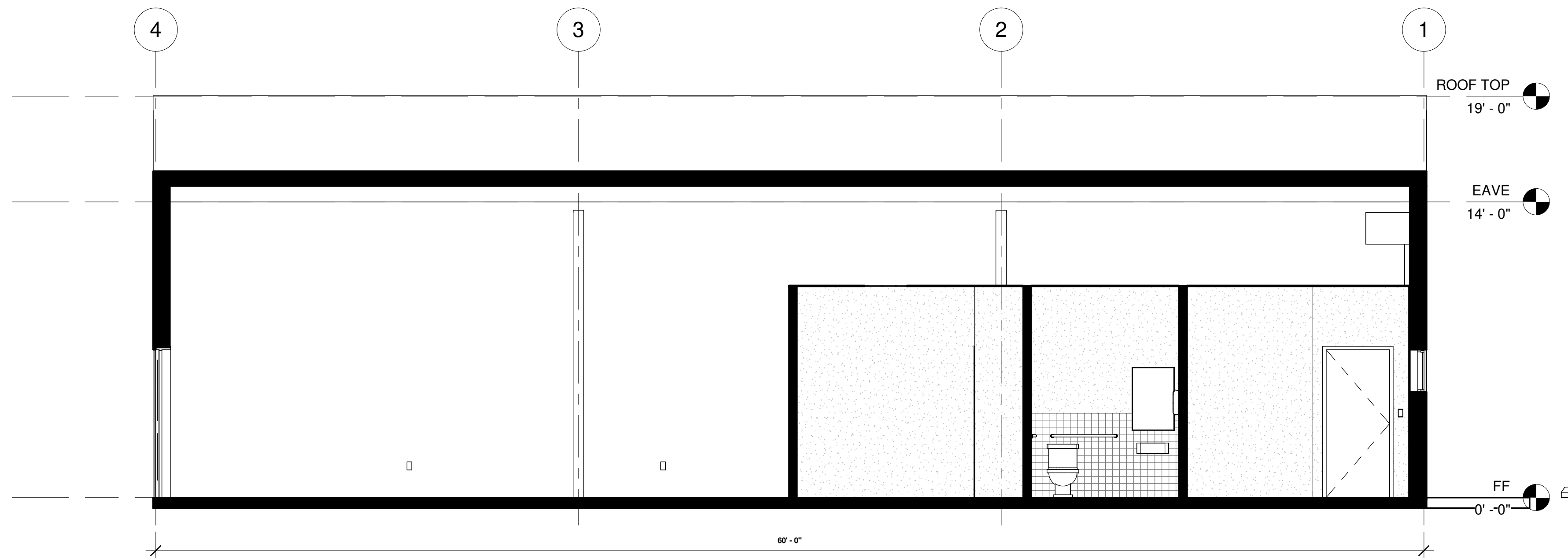
JOB No.: Project Number

SHEET No.:

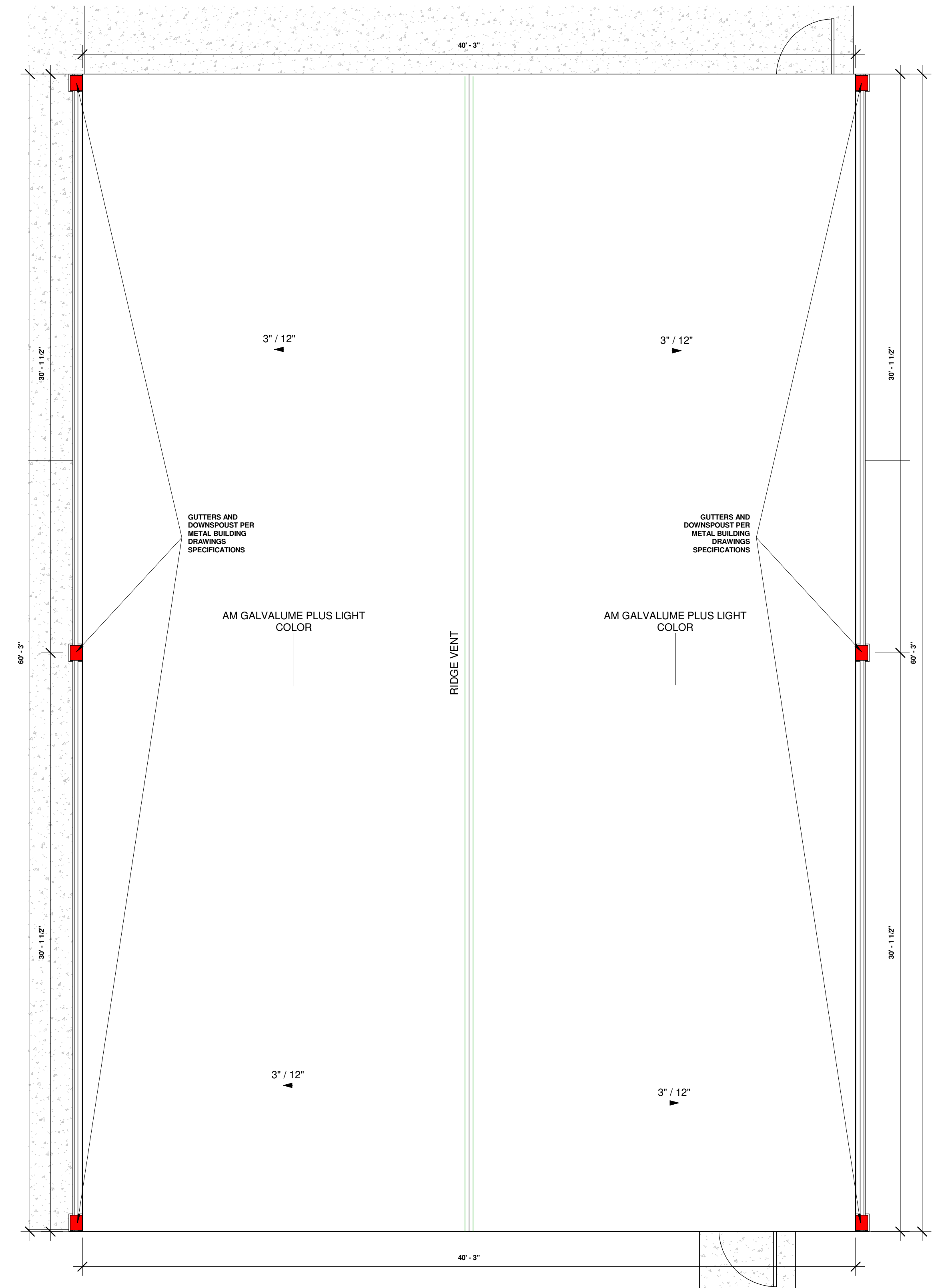
**A103**



**2 A1**  
1/4" = 1'-0"



**3 B1**  
1/4" = 1'-0"



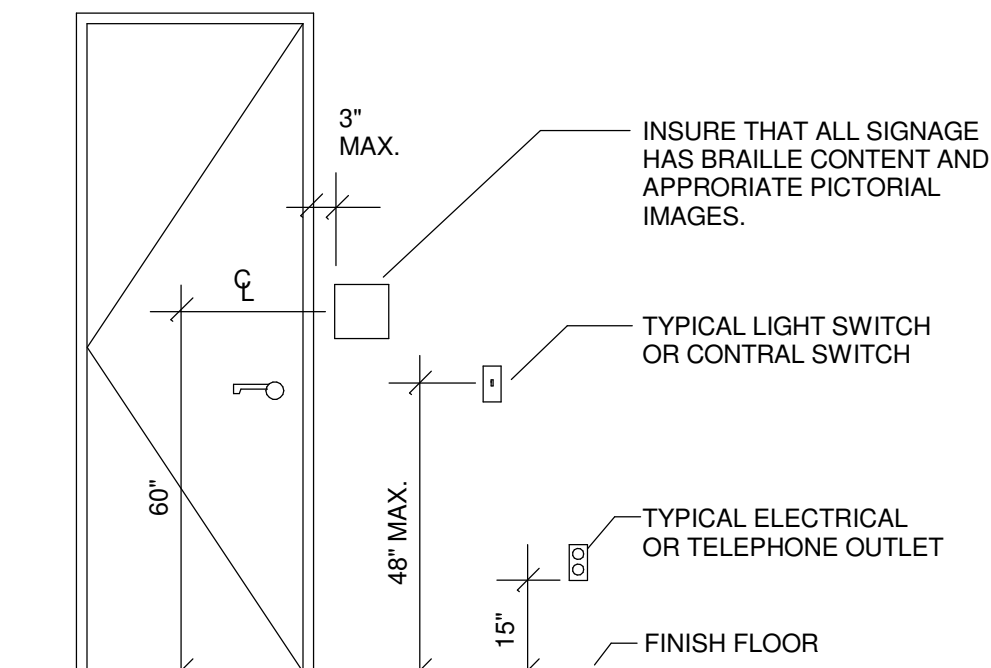
**1 ROOF PLAN**  
1/4" = 1'-0"

Product	Solar Reflectance (Initial)	Thermal Emissivity (E)	Solar Reflectance (3 Year)	Solar Reflectance Index (Initial)	Solar Reflectance Index (3 Year)
AM Galvalume Plus	0.71	0.08	0.55	62	28

METAL FRAME DIMENSION TO BE VERIFIED WITH METAL BUILDING SHOP DRAWINGS

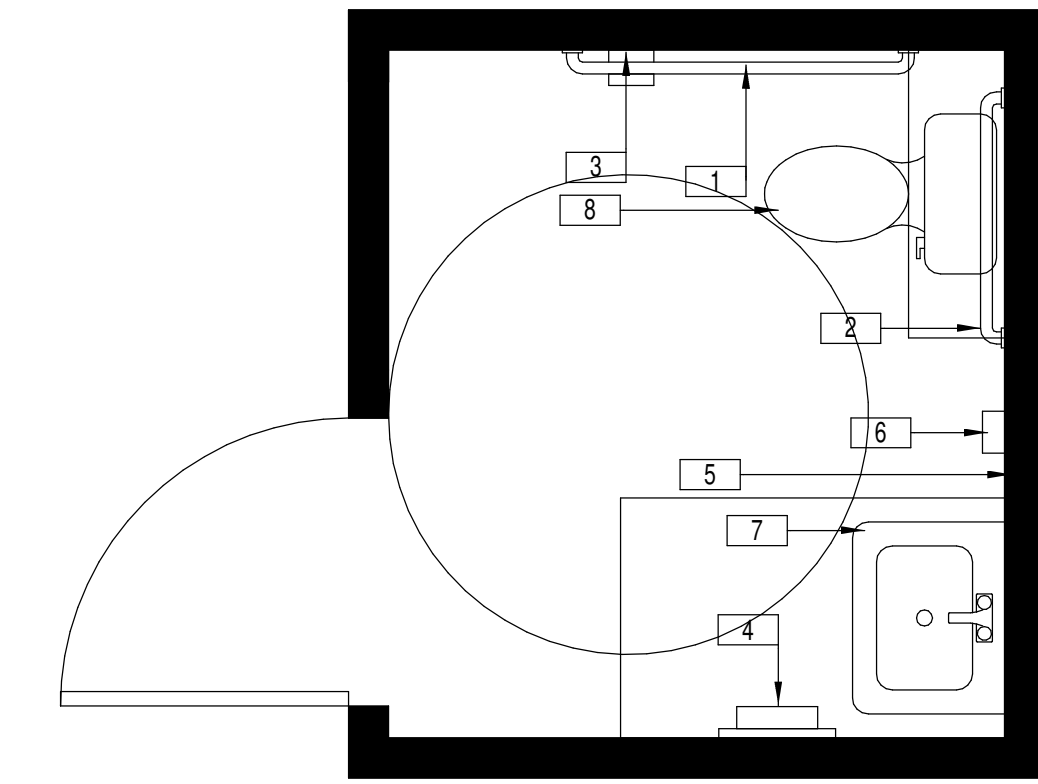
HARDWARE SCHEDULE										
MARK	HINGES	LOCK SET	CLOSER	PULL	PUSH BAR	PUSH PLATE	KICK PLATE	SWEEP	THRESHOLD	REMARKS
1	3 HINGES PER DOOR. B8179 4.5"x4.5" US26DNRP	DOUPBLE CYLINDER LOCKING DEADBOLT HARDWARE KEYPED ALIKE, B462P6 X 626	DORMA 7601 DSTHO X ALUM. SET FOR 110° SWING AND BACK CHECK AT 95°	HAGER H11G US32D 8" CENTERS, 1" BACK TO BACK PUSH 3'-4" A.F.F.	P-007 PUSH BAR W/ CHOUSE OF INSERTS US ALUM. CORP.	HAGER US32D	NONE	VISTA WALL U-231 HARDCOAT BRONZE ANODIZED	MIL-FIN. ALUM. ZERO INTL. INC. #101	NON-REMOVABLE PINS
2	STANLEY FB8179 BUTT HINGES (3 PER DOOR)	HARNEY HARDWARE, LEVER LOCK, PRIVACY/ BATHROOM FUNCTION #86501	DORMA #TS83 x ALUM.	HAGER H11G US32D	NONE	HAGER US32D	NONE	NONE	NONE	
3	McKENNY 4.5"x4.5" 3 HINGES PER DOOR W/ NON REMOVABLE PINS	PANIC HARDWARE ONLY	YALE # TJ-4420T-BFX315 SET FOR 110° SWING AND BACK CHECK AT 95°	HAGER H11G US32D 8" CENTERS, 1" BACK TO BACK PUSH 3'-4" A.F.F.	PANIC HARDWARE ONLY	NONE	NONE	VISTA WALL U-231 HARDCOAT BRONZE ANODIZED	MIL-FIN. ALUM. ZERO INTL. INC. #101	NON-REMOVABLE PINS

NOTE:  
ALL DOORS HARDWARE SHALL HAVE LEVER OR EQUIVALENT MOUNTED NOT MORE THAN 42" A.F.F. EXCEPT AT ACCESSIBLE STALLS WHICH SHALL BE MOUNTED 34" TO 36" A.F.F.  
THE MAX. OPENING FORCE FOR EXTERIOR DOORS WITH CLOSER SHALL NOT EXCEED 8.5 POUNDS.  
THE MAX. OPENING FORCE FOR INTERIOR DOORS WITH CLOSER SHALL NOT EXCEED 5.0 POUNDS.



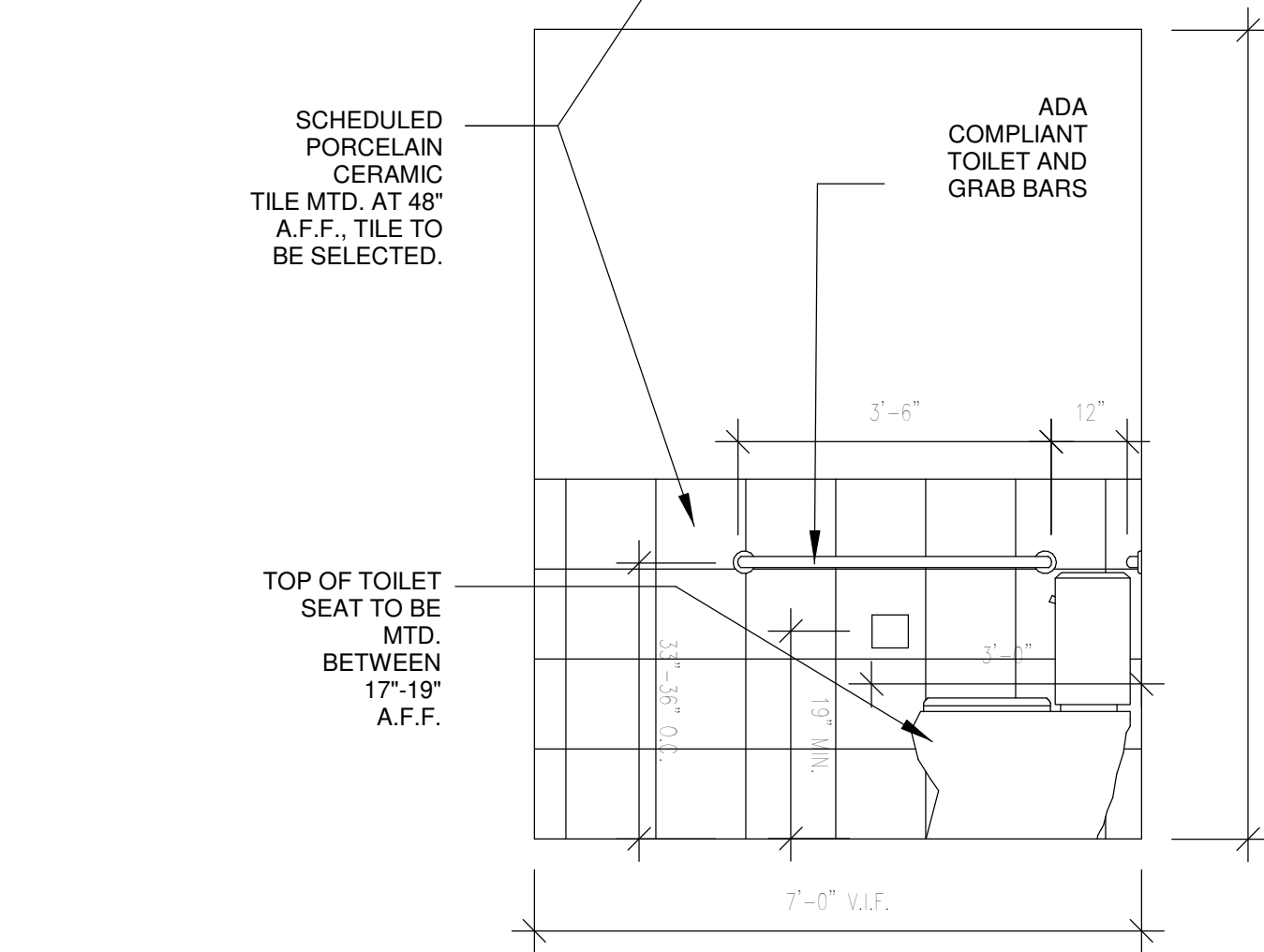
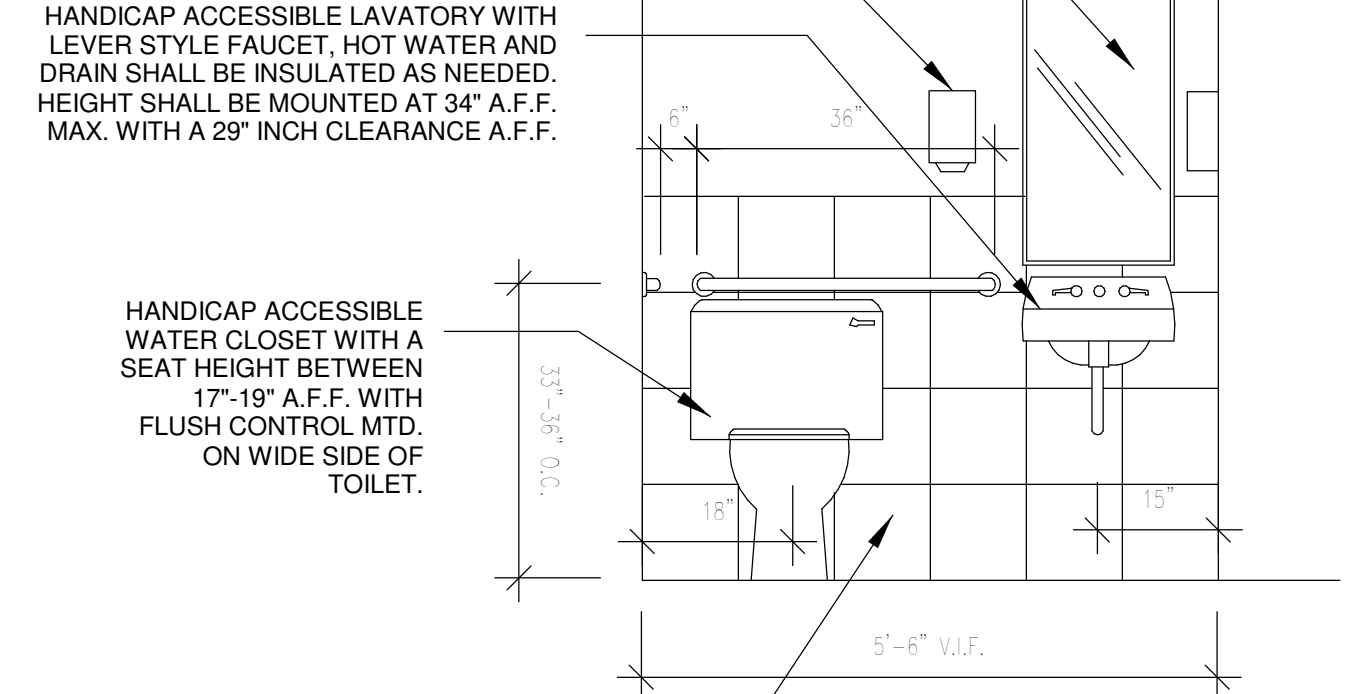
- PROVIDE A CLEAR SPACE OF 30"x48" AT SWITCHES/OUTLETS.
- CONTRALS & OPERATING MECHANISMS SHALL BE OPERABLE WITH ONE HAND, AND SHALL NOT REQUIRE TIGHT GRASPING OR TWISTING OF THE WRIST. THE FORCE SHALL BE NO GREATER THAN 5 LBS.

TOILET FIXTURES/ACCESSORIES LEGEND	
MARK	KEYED NOTES
1	36" GRAB BAR W/ SLIP RESISTANT SURFACE. DESIGNED TO RESIST A SINGLE LOAD OF 250 POUNDS APPLIED IN ANY DIRECTION AT ANY POINT.
2	42" GRAB BAR W/ SLIP RESISTANT SURFACE. DESIGNED TO RESIST A SINGLE LOAD OF 250 POUNDS APPLIED IN ANY DIRECTION AT ANY POINT.
3	TOILET PAPER DISPENSER.
4	SEMI-RECESSED PAPER TOWEL DISPENSER. DISPENSER TO PROJECT NO MORE THAN 4" FROM WALL SURFACE.
5	44"x30" MIRROR.
6	WALL MOUNTED LIQUID SOAP DISPENSER PROVIDED AND INSTALLED BY OWNER.
7	SINK (RE-PLUMBING)
8	WATER CLOSET (RE-PLUMBING)

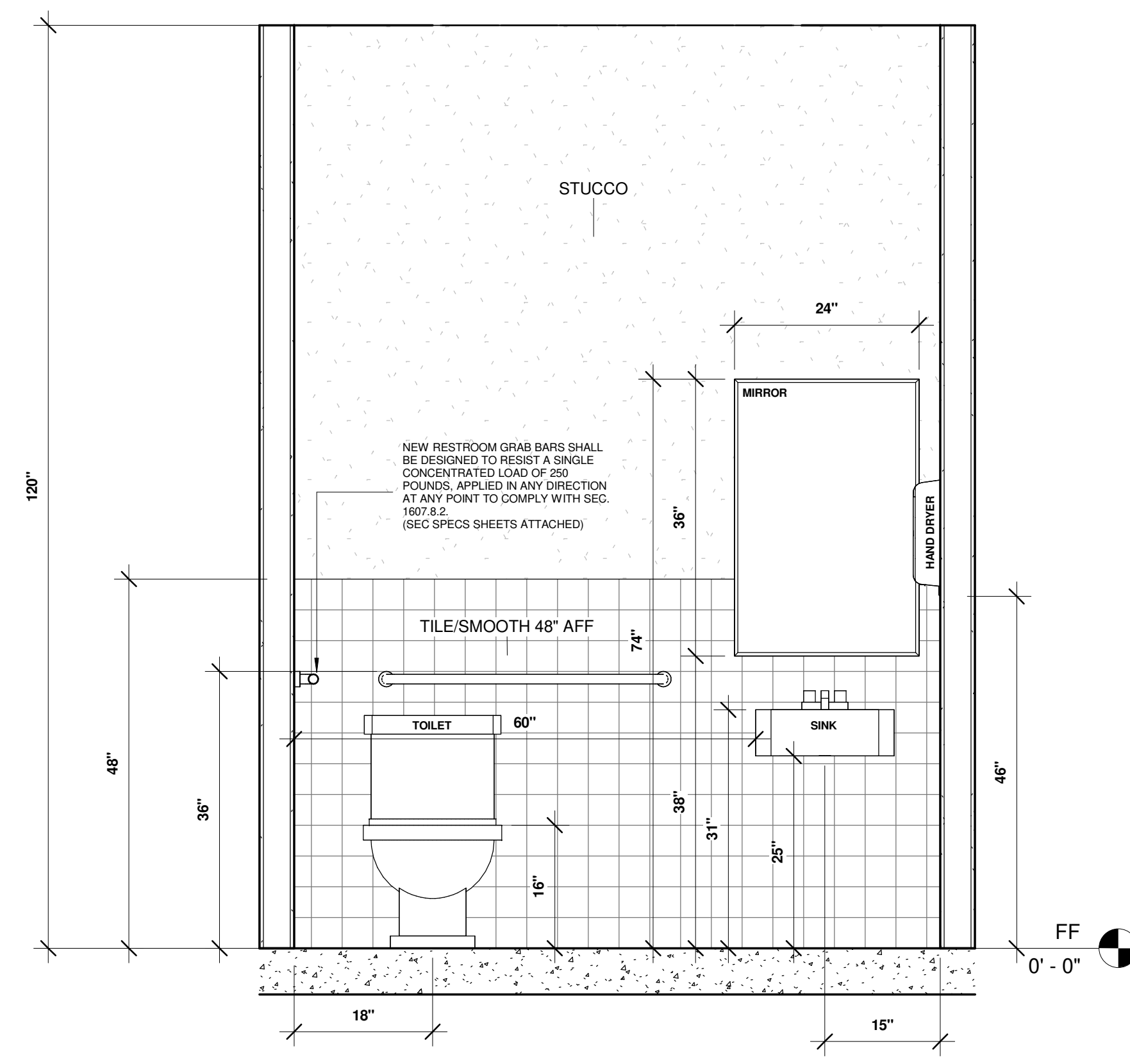


MIRROR SHALL BE MTD. WITH THE REFLECTIVE SURFACE NO HIGHER THAN 40" A.F.F. AND TOP OF MIRROR 74" A.F.F.

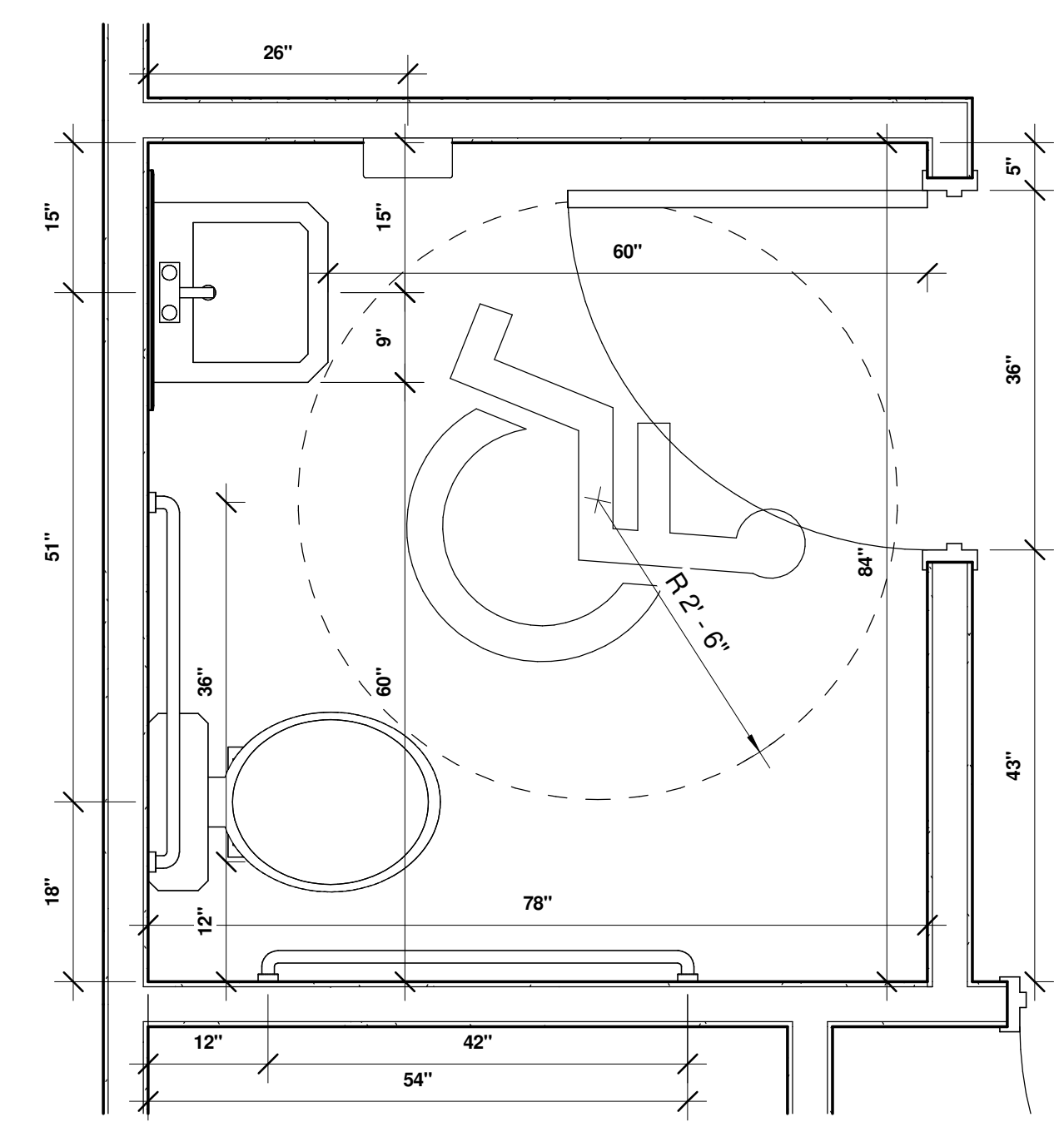
SOAP AND PAPER TOWEL DISPENSER SHALL BE MTD. SO OPERATING CONTROLS ARE MTD. 48" A.F.F. MAX. AND 4" PROJECTION MAX.



BATH TYPICAL  
1/2" = 1'-0"



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



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

METAL FRAME DIMENSION TO BE VERIFIED WITH METAL BUILDING SHOP DRAWINGS

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CONSULTANTS:

CIVIL:

STRUCTURAL:

MEP:

**OFFICE WAREHOUSE**  
101 Orange St, La Marque, TX 77568

ISSUED FOR:

REVISIONS:



SHEET TITLE:

CONSTRUCTIONS SPECS.

SCALE: As indicated

DATE: 2/4/2025 12:43:06 PM

JOB No.: Project Number

SHEET No.:

**A104**

The drawings and specifications as instruments of service are and shall remain the property of the Designer. They are not to be used on other projects or extensions to this project except by agreement in writing and with appropriate compensation to the Designer. Contractor is responsible for confirming and verifying dimensions at job site; the Designer will not be responsible for construction means, methods, techniques, sequences or procedures; or for safety precautions and programs in connection with the project.

CONSULTANTS:

CIVIL:

STRUCTURAL:

MEP:

**OFFICE  
WAREHOUSE**  
101 Orange St, La Marque, TX  
77568

ISSUED FOR:

REVISIONS:



**DIAZ GROUP LLC**

SHEET TITLE:

**ELEVATIONS**

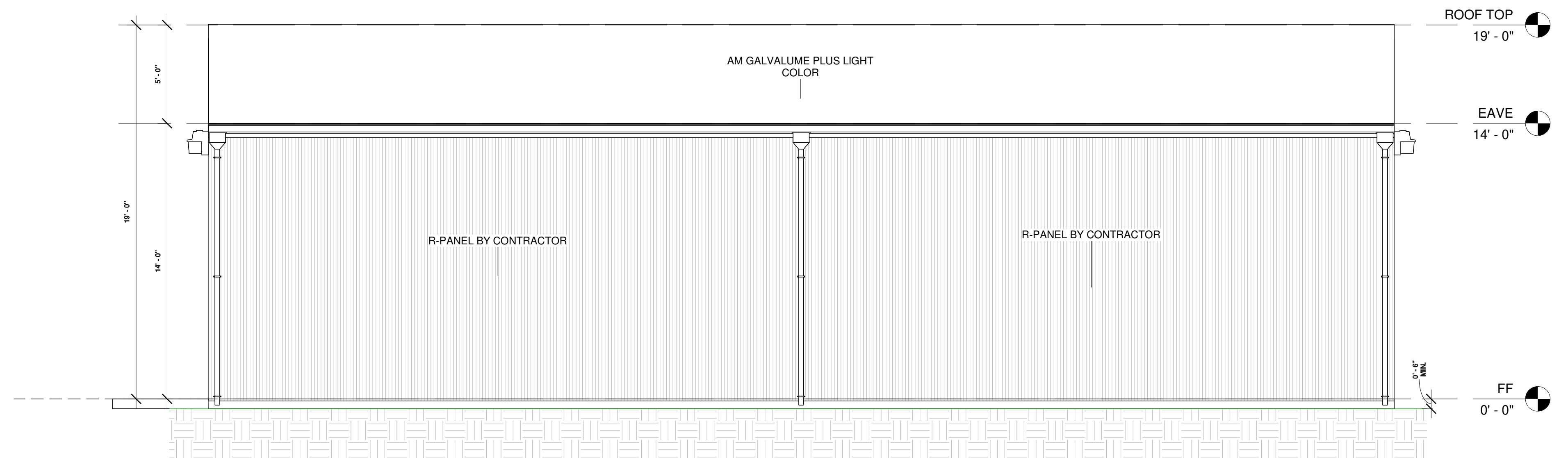
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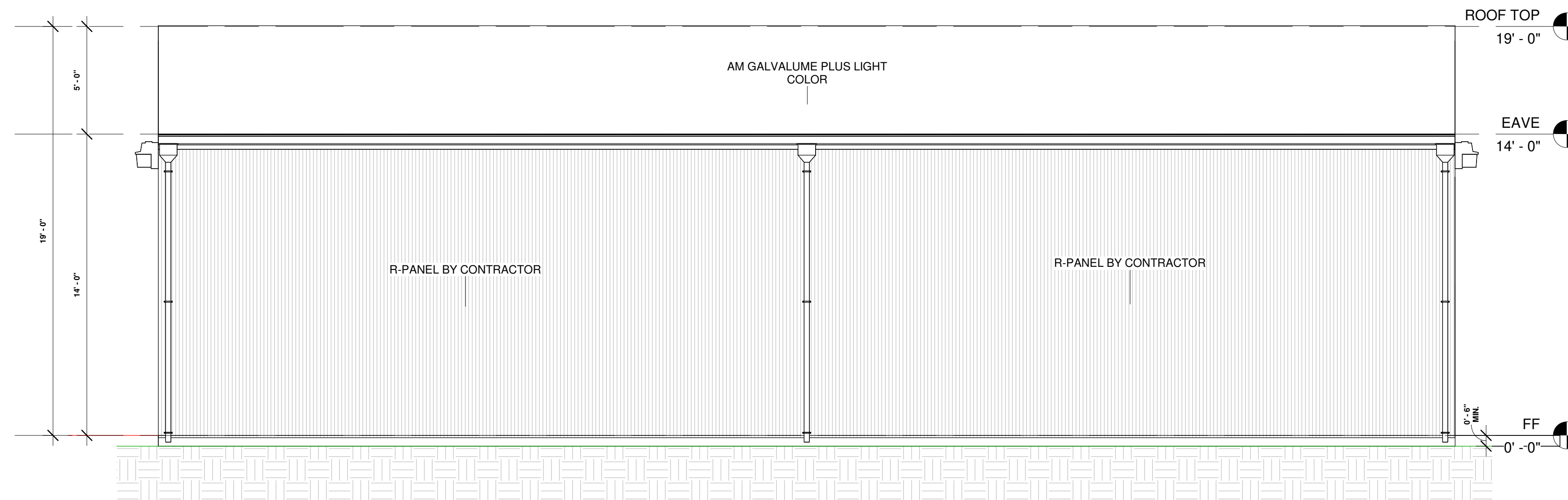
JOB No.: Project Number

SHEET No.:

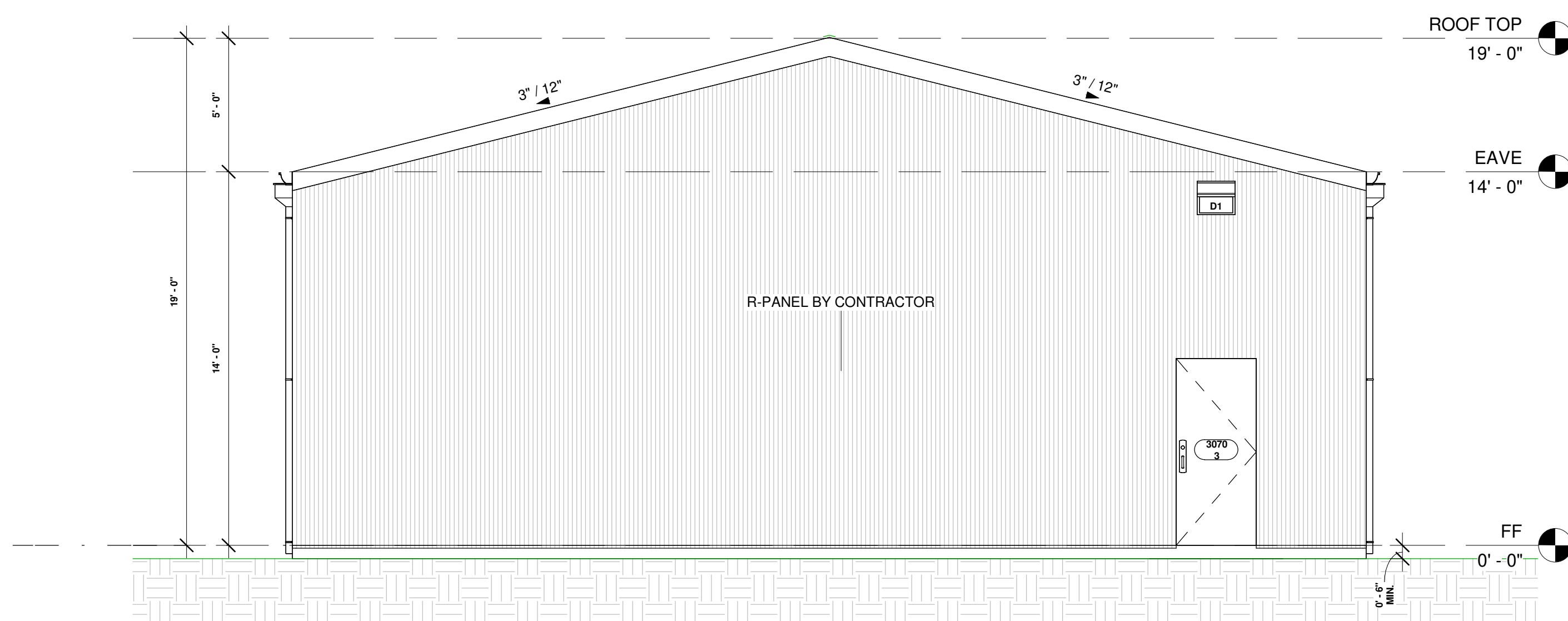
**A105**



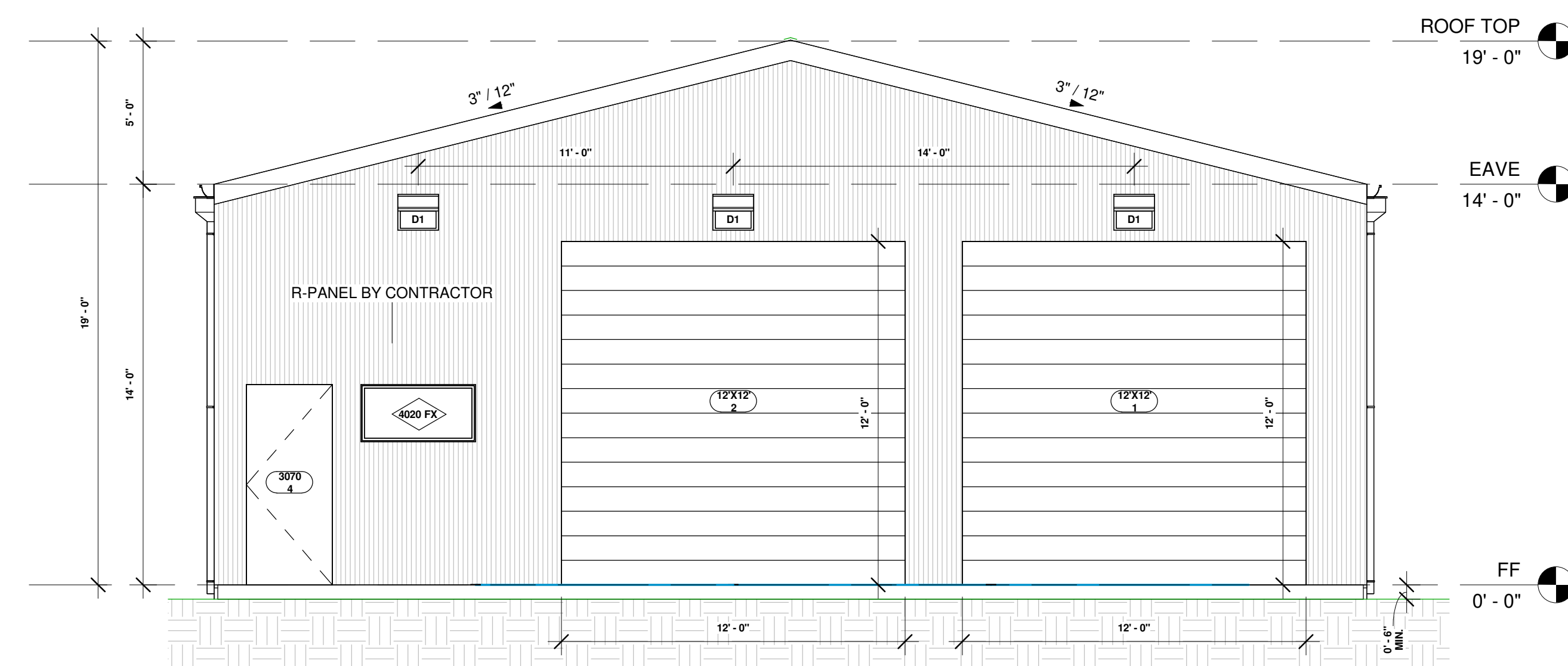
2 RIGHT  
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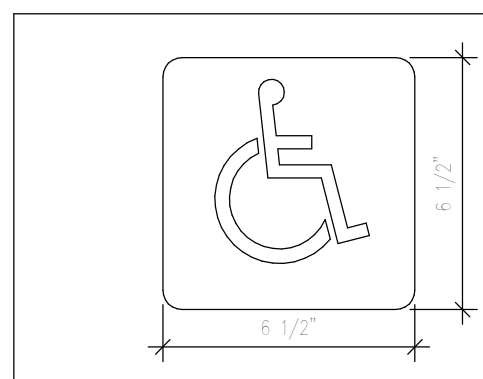
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3 REAR  
1/4" = 1'-0"



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

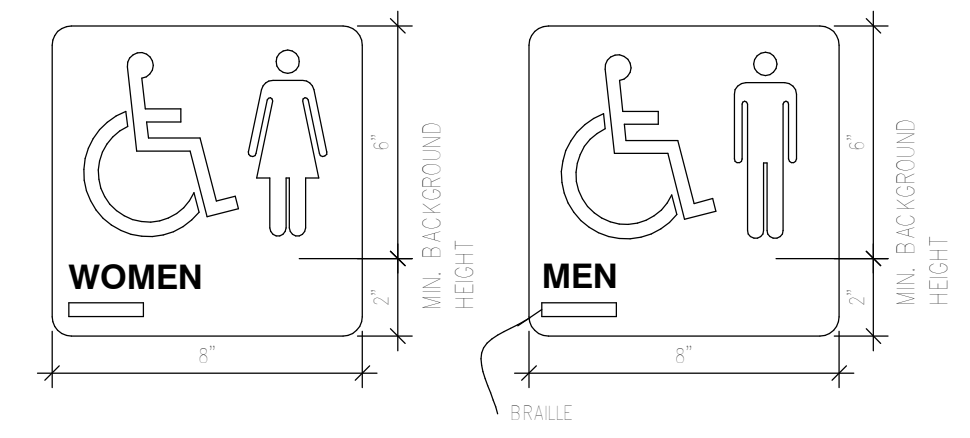


LOCATE - AT ALL FACILITIES AND ELEMENTS REQUIRED TO BE IDENTIFIED AS ACCESSIBLE BY ADA 4.30.7  
 - AT ALL AREAS FOR EVACUATION ASSISTANCE  
 - AT ALL ACCESSIBLE TOILET AND BATHING FACILITIES  
 - AT ALL PUBLIC PHONES

INTERNATIONAL SYMBOL OF ACCESSIBILITY

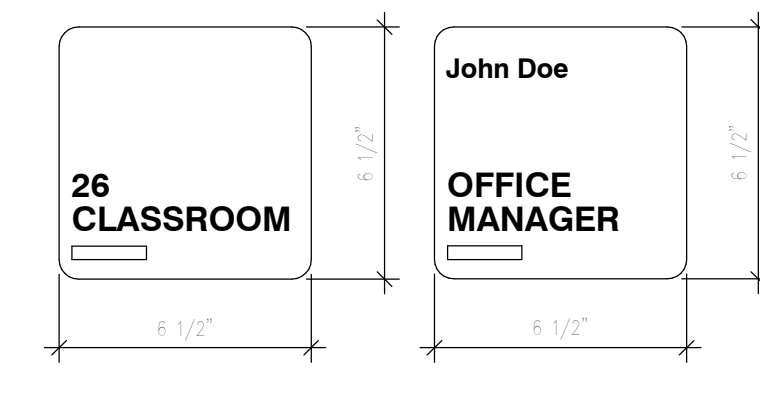
**SIGNAGE: SIZES**

SEE SECTION 4.30 OF THE TAS FOR ADDITIONAL REQUIREMENTS ON SIGNAGE.

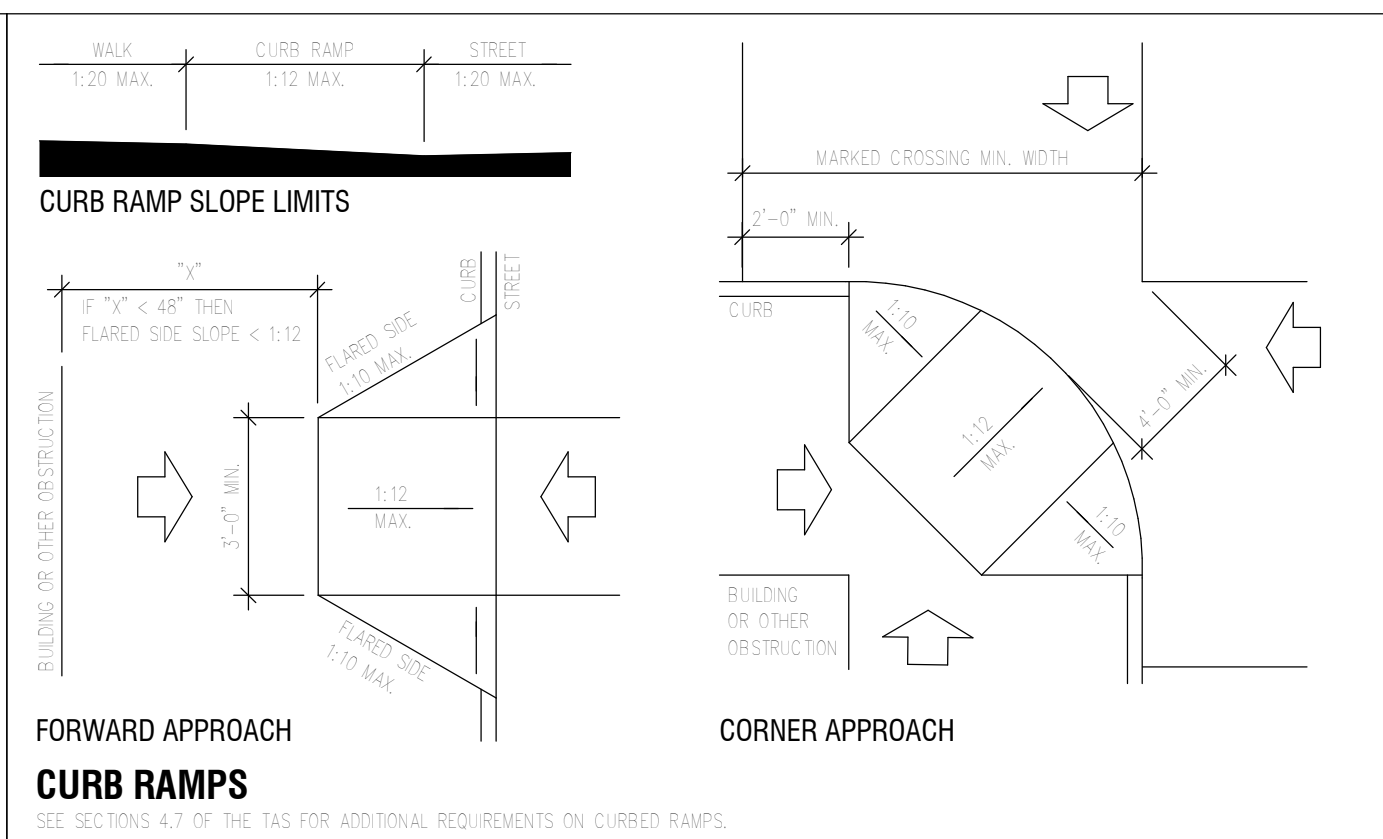


LOCATE AT ALL MEN'S AND WOMEN'S TOILETS AND BATHING FACILITIES

MENS AND WOMENS SIGNAGE

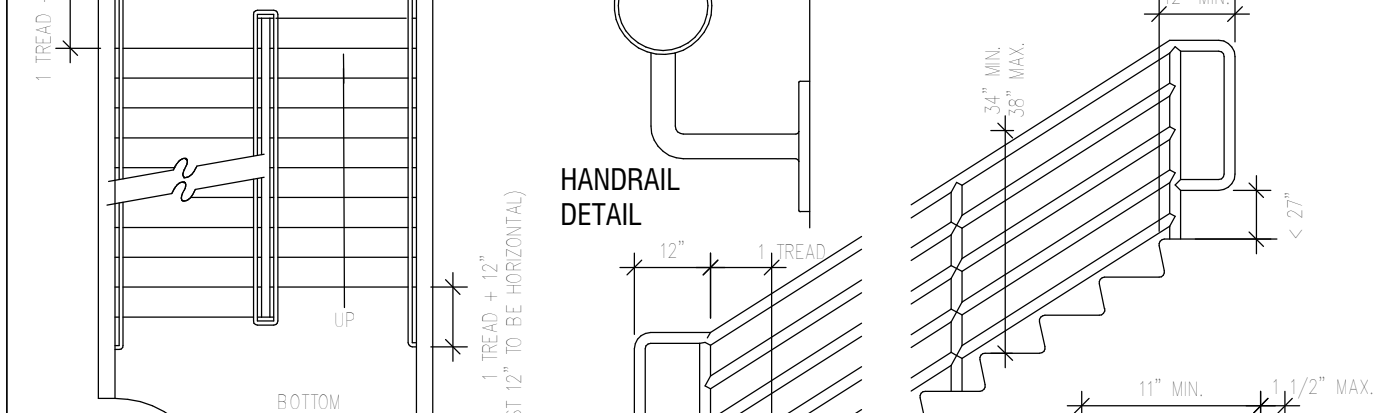


TYPICAL INTERIOR SIGNAGE



**SPECIAL ACCESSIBILITY REQUIREMENTS**

**DOOR HARDWARE:**



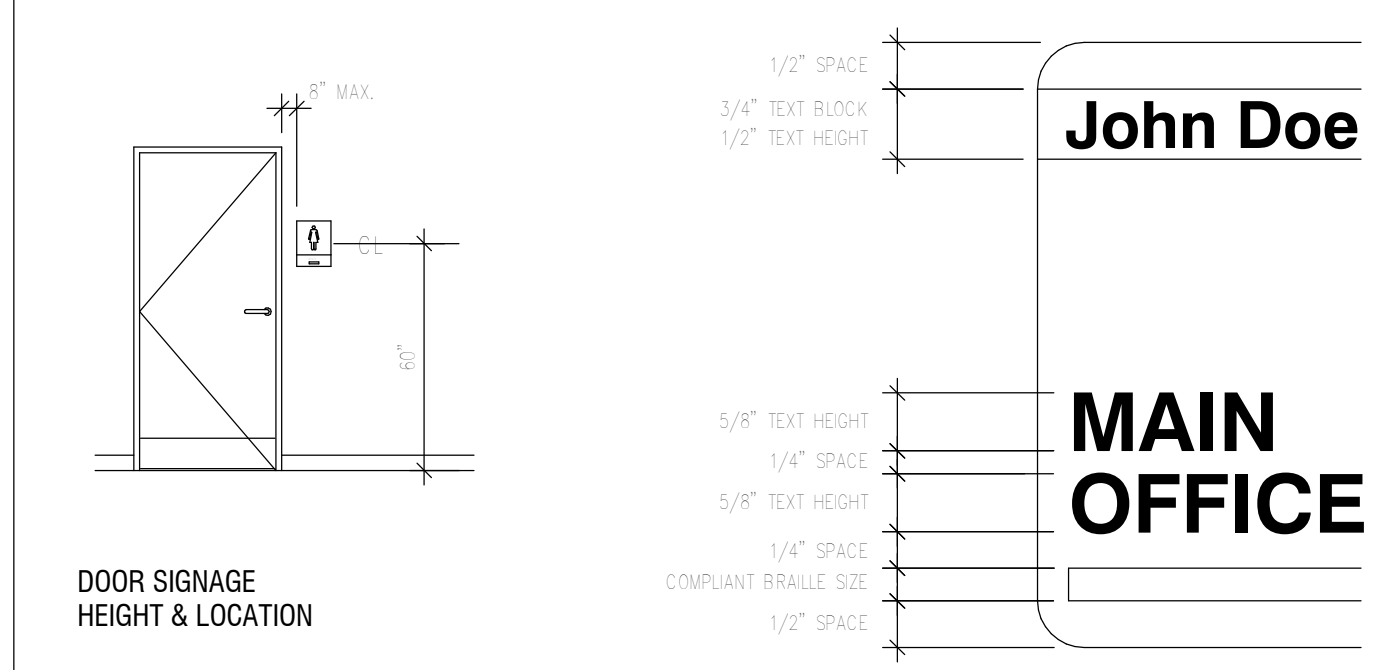
**DOOR HARDWARE:**

Doors shall have Lever-operated mechanisms, push-type mechanisms, or U-shaped handles.  
 Handles, pulls, latches, locks, and other operating devices on accessible doors shall have a shape that is easy to grasp with one hand and does not require tight grasping, light pinching, or twisting of the wrist to operate.  
 Sliding doors, if any, when fully open shall have operating hardware exposed and usable from both sides.  
 Mounting Height: Hardware required for accessible door passage shall be mounted no higher than 48\"/>

Door Opening Force: The maximum force for pushing or pulling open a door shall be as follows:  
 1. Fire doors shall have the minimum opening force allowable by the appropriate administrative authority.  
 2. Other Doors:  
 (a) Exterior hinged doors: No requirement.  
 (b) Interior hinged doors: 5 lbf.  
 (c) Sliding or folding doors: 5 lbf.

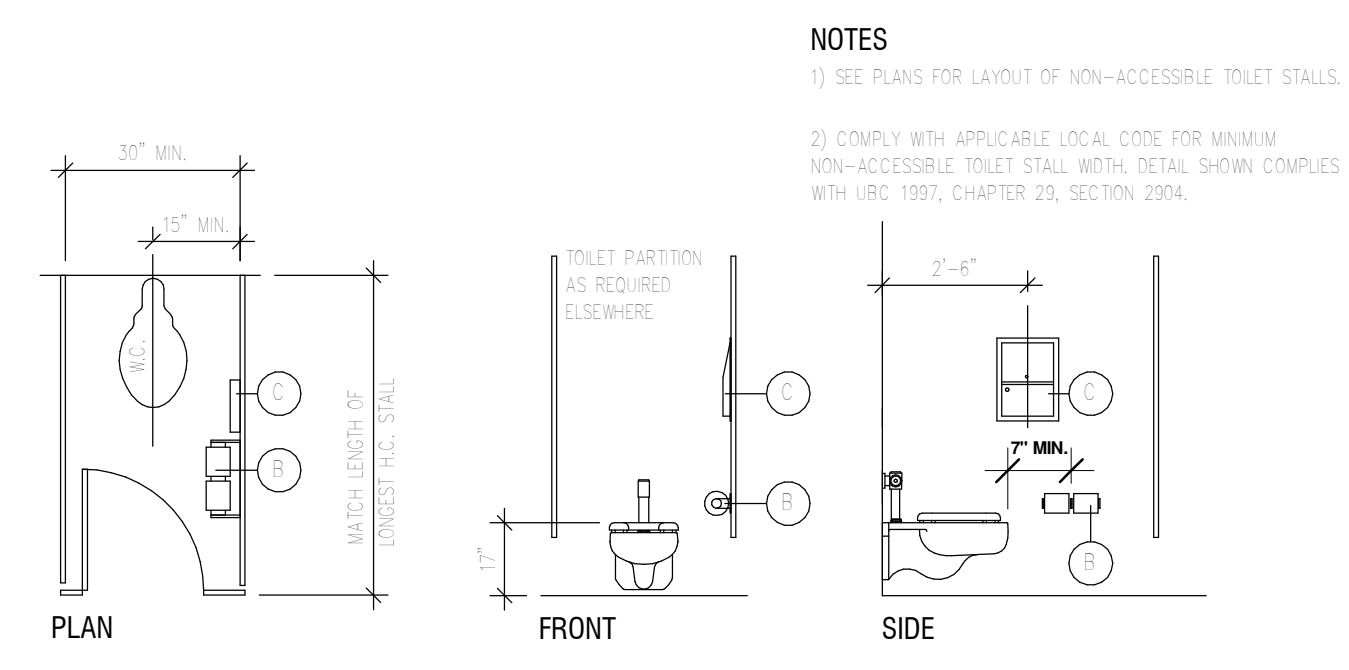
These forces do not apply to the force required to retract latch bolts or disengage other devices that may hold the door in a closed position.

Automatic doors, if any, shall comply with ANSI/BHMA A156.10-1995. Slowly opening, low powered, automatic doors shall comply with ANSI A156.19-1984. Such doors shall not open to back check faster than 3 seconds and shall require no more than 15 lbf (66.6N) to stop door movement. If user-operated controls are provided they shall comply with Texas Accessibility Standards Section 4.27.



**SIGNAGE: LOCATION & TEXT HEIGHTS**

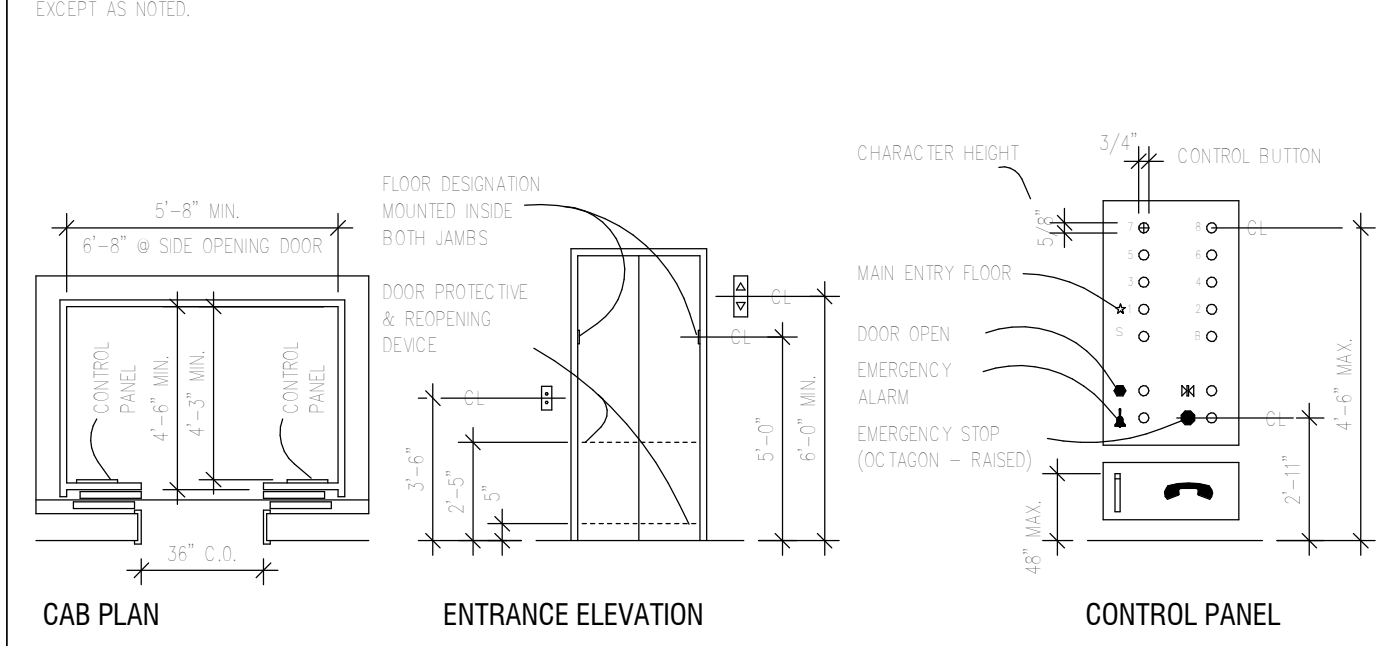
SEE SECTION 4.30 OF THE TAS FOR ADDITIONAL REQUIREMENTS ON SIGNAGE.



**NON-ACCESSIBLE STALL PLAN AND ELEVATIONS**

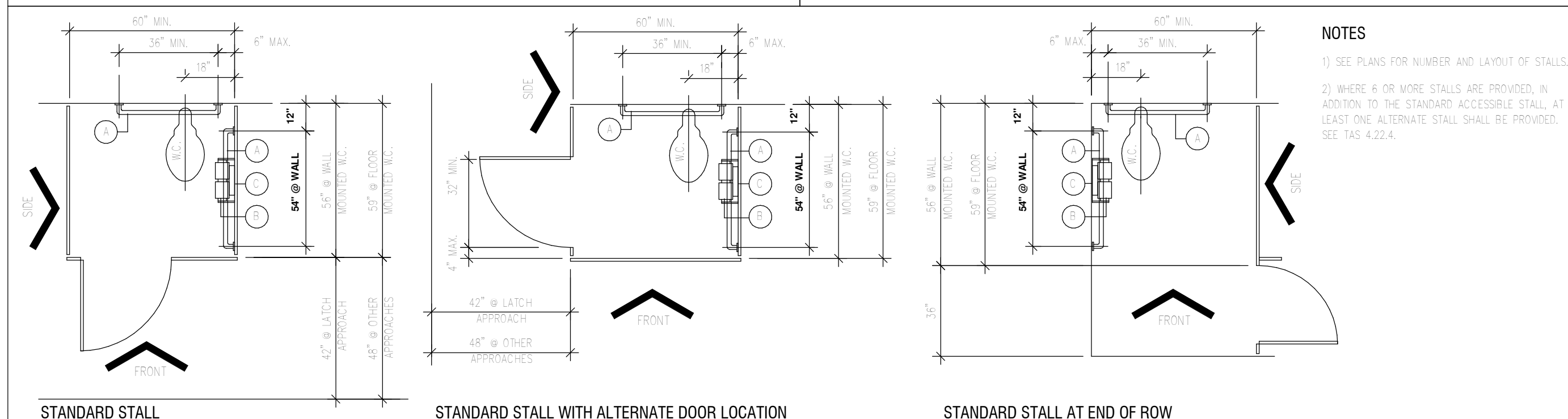
SEE PLANS FOR TOILET STALL LAYOUTS.

**GRAB BARS, AND TUB AND SHOWER SEATS:**



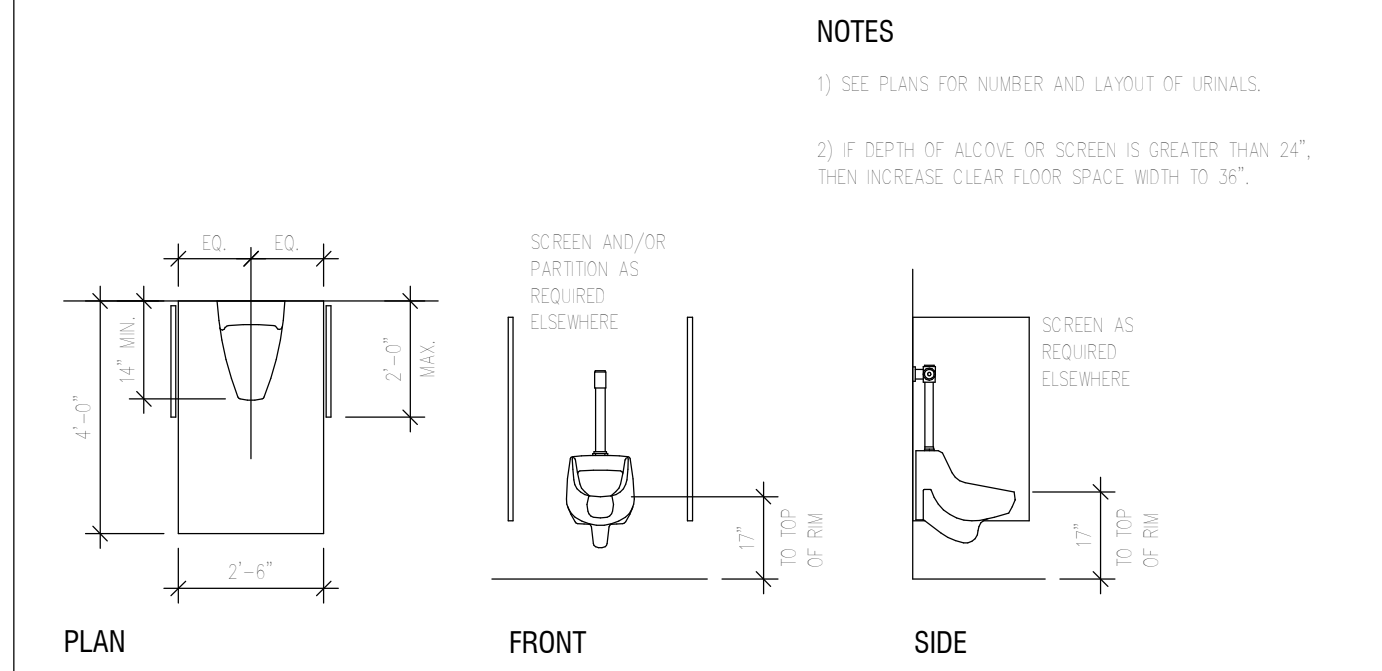
**ELEVATORS**

SEE SECTION 4.9 OF THE TAS FOR ADDITIONAL REQUIREMENTS ON ELEVATORS.



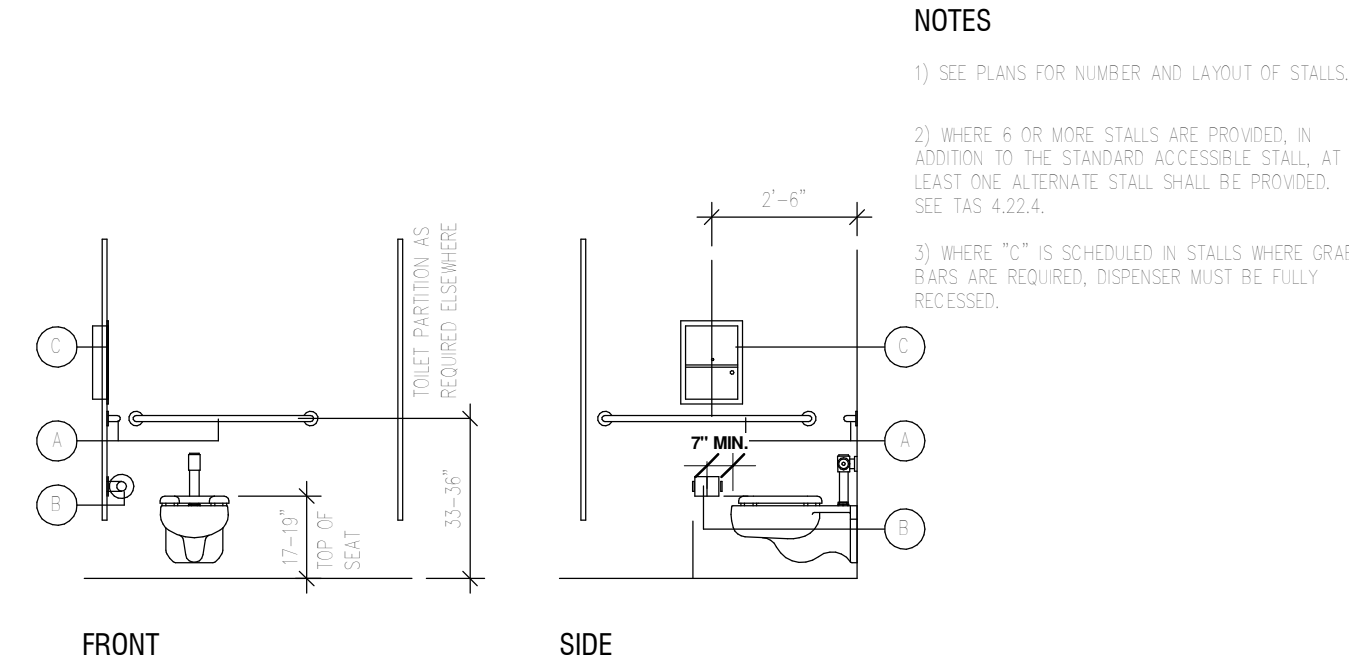
**ACCESSIBLE STALL PLANS**

SEE SECTION 4.17 FOR ADDITIONAL REQUIREMENTS ON ACCESSIBLE STALLS.



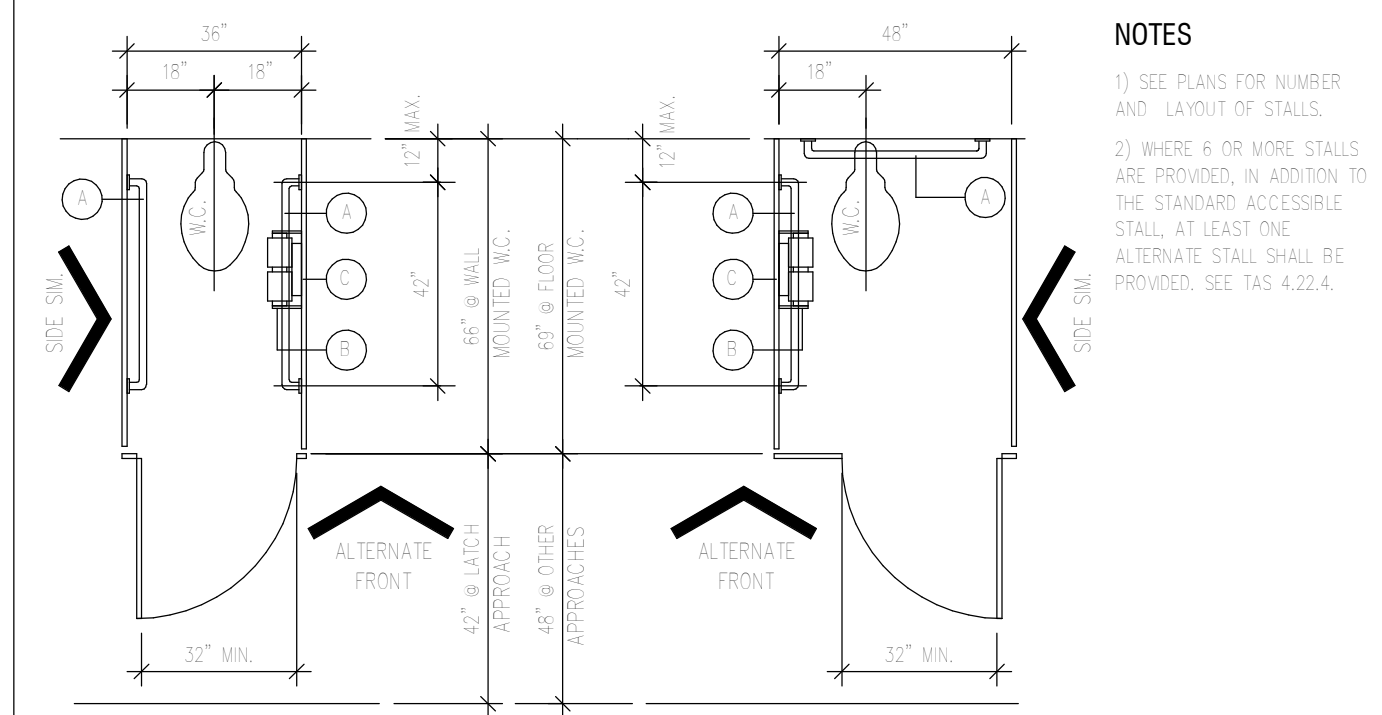
**ACCESSIBLE URINALS**

SEE TAS SECTION 4.18 FOR ADDITIONAL REQUIREMENTS ON ACCESSIBLE URINALS.



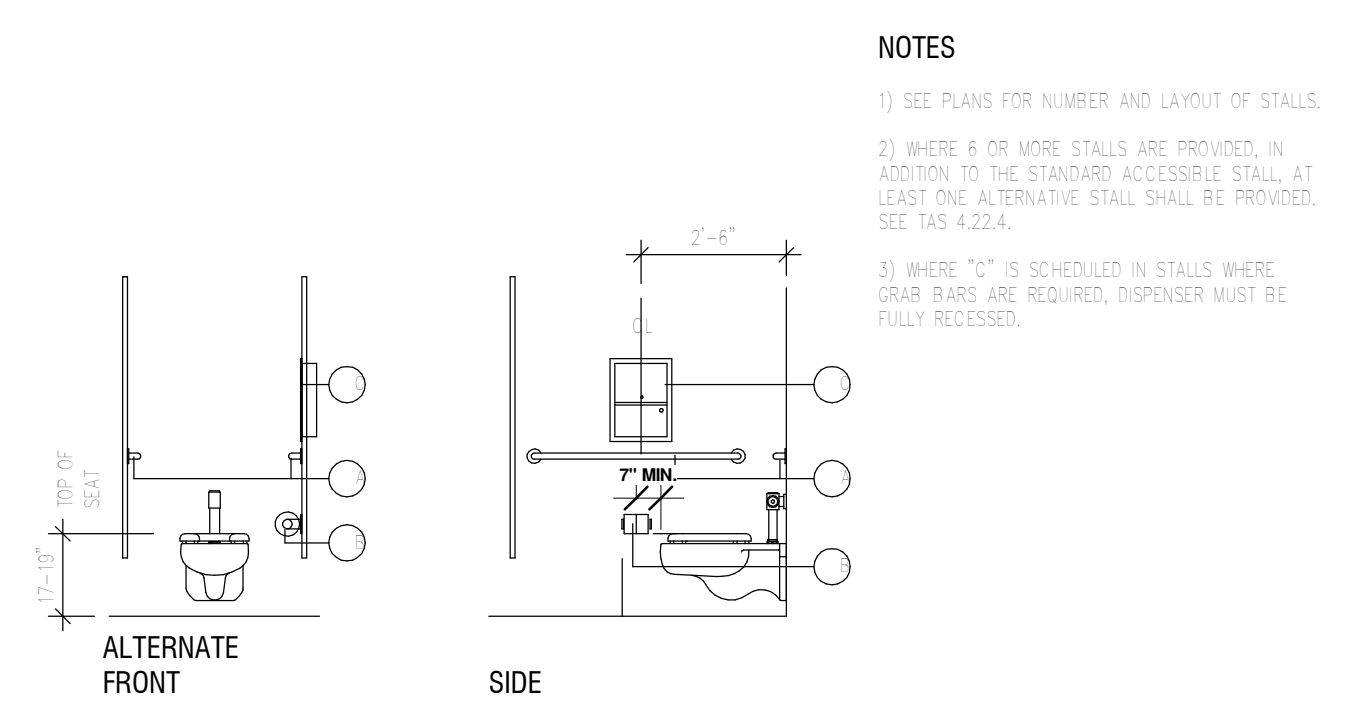
**ACCESSIBLE STALL ELEVATIONS**

SEE TAS SECTION 4.17 FOR ADDITIONAL REQUIREMENTS ON ACCESSIBLE STALLS.



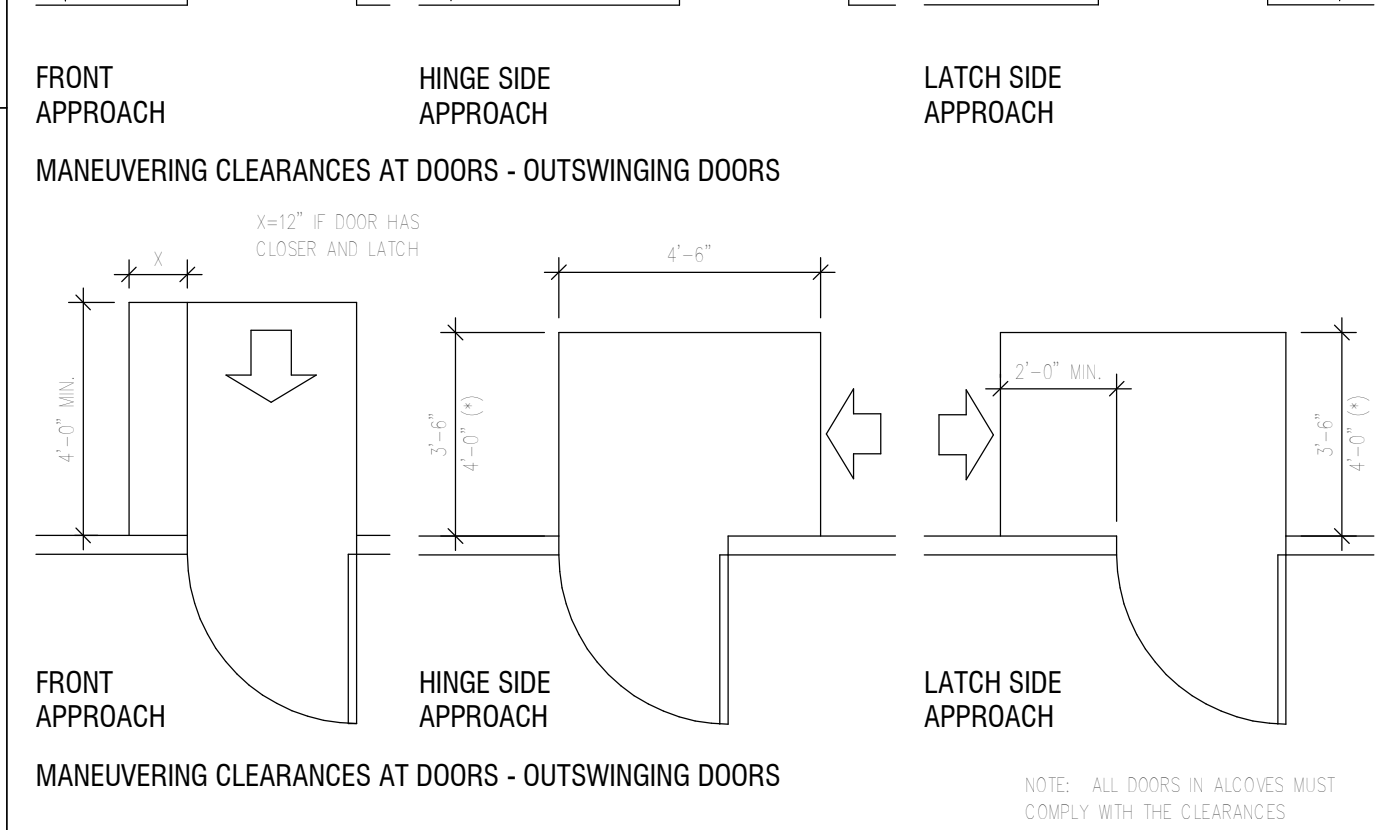
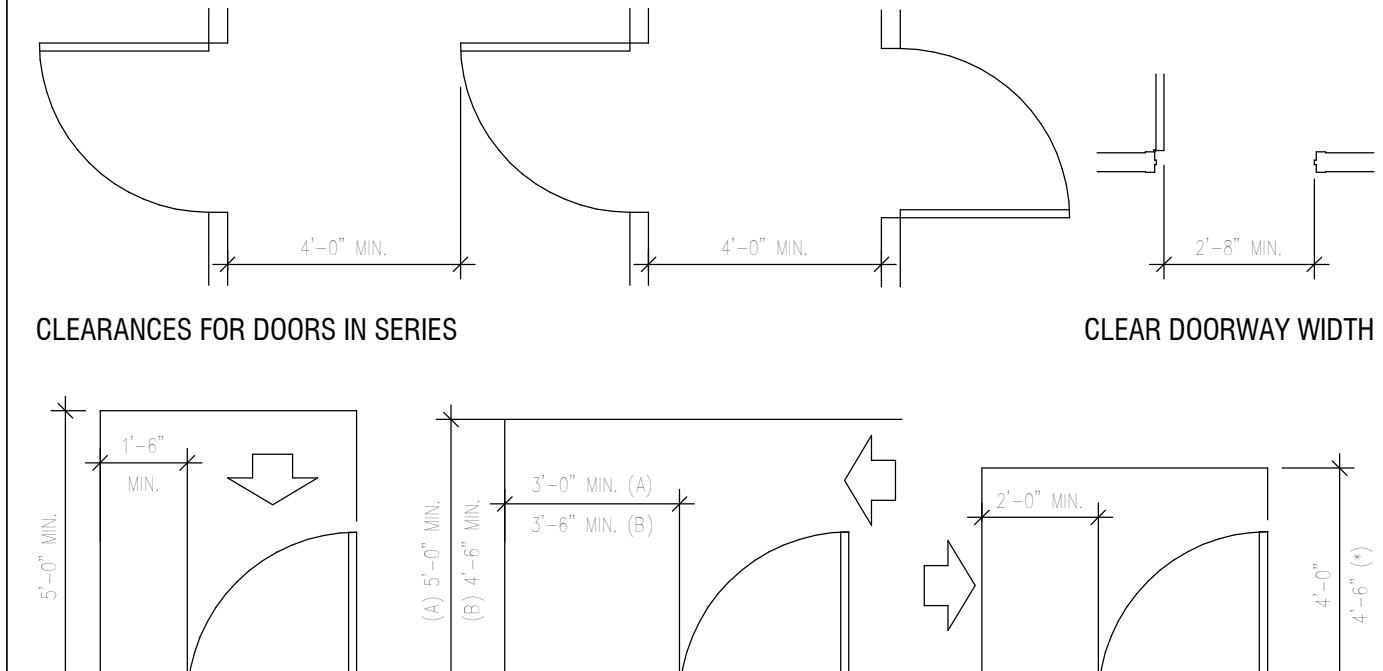
**ACCESSIBLE ALTERNATE STALL PLANS**

SEE TAS SECTION 4.22.4 FOR ADDITIONAL REQUIREMENTS ON ALTERNATE STALLS.



**ACCESSIBLE ALTERNATE STALL ELEVATIONS**

SEE TAS SECTION 4.22.4 FOR ADDITIONAL REQUIREMENTS ON ALTERNATE STALLS.



**DOORS**

SEE SECTION 4.33 OF THE TAS FOR ADDITIONAL REQUIREMENTS ON DOORS.

Requirements shown are the minimum required for Texas Accessibility Standards (TAS) & Americans with Disabilities Act Accessibility Guidelines for Buildings and Facilities (ADAAG) compliance. The information shown is for reference only and is not intended to be comprehensive, refer to TAS and ADAAG for all applicable requirements.

Information shown may not be relevant to the subject project. See Architectural drawings for scope of work and specific project requirements.

Dimensions indicated are the minimum clear dimensions required by TAS. The Contractor is responsible for verifying existing conditions and layout of construction elements to ensure that clearances required are provided.

Diagrams shown are only for the purpose of illustrating minimum TAS/ADAAG requirements and are not construction drawing details. See Architectural drawings for construction details, specifications and other notes.

Notify the Architect immediately of any discrepancies or conflicts between the Architectural drawings and the information shown on this sheet. In the event of conflicting requirements, the most stringent requirements shall apply. The Architect shall determine what is most stringent.

Do not scale these drawings.

Refer to Texas Accessibility Standards (TAS) of the Architectural Barriers Act, Article 9102, Texas Civil Statutes, Effective April 1, 1994 as prepared and administered by the Texas Department of Licensing and Regulation, Policies and Standards Division, Architectural Barriers Section. Also refer to federal publication "Americans with Disabilities Act, Title III, Public Accommodations" (latest edition) and project local governing regulations for complete project accessibility requirements.

**SPECIAL ACCESSIBILITY REQUIREMENTS**

**DOOR HARDWARE:**

Doors shall have Lever-operated mechanisms, push-type mechanisms, or U-shaped handles.

Handles, pulls, latches, locks, and other operating devices on accessible doors shall have a shape that is easy to grasp with one hand and does not require tight grasping, light pinching, or twisting of the wrist to operate.

Sliding doors, if any, when fully open shall have operating hardware exposed and usable from both sides.

Mounting Height: Hardware required for accessible door passage shall be mounted no higher than 48\"/>

Door Operation: The sweep period of a closer shall be adjusted so that from an open position of 70\", the door will take at least 3 seconds to move to a point 3\"/>

Door Opening Force: The maximum force for pushing or pulling open a door shall be as follows:  
 1. Fire doors shall have the minimum opening force allowable by the appropriate administrative authority.  
 2. Other Doors:  
 (a) Exterior hinged doors: No requirement.  
 (b) Interior hinged doors: 5 lbf.  
 (c) Sliding or folding doors: 5 lbf.

These forces do not apply to the force required to retract latch bolts or disengage other devices that may hold the door in a closed position.

Automatic doors, if any, shall comply with ANSI/BHMA A156.10-1995. Slowly opening, low powered, automatic doors shall comply with ANSI A156.19-1984. Such doors shall not open to back check faster than 3 seconds and shall require no more than 15 lbf (66.6N) to stop door movement. If user-operated controls are provided they shall comply with Texas Accessibility Standards Section 4.27.

**GRAB BARS, AND TUB AND SHOWER SEATS:**

The outside diameter or width of the gripping surfaces of a handrail or grab bar shall be 1-1/4\"/>

If handrails or grab bars are mounted adjacent to a wall, the space between the wall and the grab bar shall be 1-1/2\"/>

Bending stress in a grab bar or seat induced by the maximum bending moment from the application of 250 lbf shall be less than the allowable stress for the material of the grab bar or seat.

Shear stress induced in a grab bar or seat by the application of 250 lbf shall be less than the allowable shear stress for the material of the grab bar or seat.

Shear force induced in a fastener or mounting device from the application of 250 lbf shall be less than the allowable lateral load of either the fastener or mounting device or the supporting structure, whichever is the smaller allowable load.

Tension force induced in a fastener by a direct tension force of 250 lbf plus the maximum moment from the application of 250 lbf shall be less than the allowable withdrawal load between the fastener and the supporting structure.

Rotation of grab bars within their fittings is not acceptable.

Sharp or abrasive elements are not acceptable for a handrail or grab bar or any wall or other surface adjacent to it. Edges shall have a minimum radius of 1/8\"/>

**CONTROLS AND OPERATING MECHANISMS**

Clear Floor Space: Clear floor space complying with Texas Accessibility Standards (TAS) that allows a forward or a parallel approach by a person using a wheelchair shall be provided at controls, dispensers, receptacles, and other operable equipment. Controls and operating mechanisms located in alcoves deeper than 24\"/>

Height: Switches, thermostats, controls, dispensers, receptacles, and the highest operable part of other operable equipment shall be placed no higher than 48\"/>

EXCEPTION: These requirements do not apply where the use of special equipment dictates otherwise or where electrical and communications systems receptacles are not normally intended for use by building occupants.

Flush controls shall be hand operated or automatic. Controls for flush valves shall be mounted on the wide side of toilet areas no more than 44\"/>

Operation: Controls and operating mechanisms shall be operable with one hand and shall not require tight grasping, pinching, or twisting of the wrist. The force required to activate controls shall be no greater than 5 lbf.

**SIGNAGE**

The width-to-height ratio of letters and numbers on signs shall be between 3:5 and 1:1 and a stroke-width-to-height ratio between 1:5 and 1:10 using an upper-case "X" for measurement. Lower case letters are permitted.

Overhead sign characters and numbers shall be sized according to the viewing distance from which they are to be read. For suspended or projected overhead signs, the minimum character height is 3\"/>

Brailed characters and pictorial symbol signs (pictograms) shall be raised 1/32\", upper case, sans serif or simple serif type and shall be accompanied with Grade 2 Braille. Raised characters shall be at least 5/8\"/>

Finish: The characters and background of signs shall be eggshell, matte, or other non-gloss finish. Characters and symbols shall contrast with their background.

Permanent identification signs shall be installed on the wall adjacent to the latch side of the door. Where there is no wall space to the latch side of the door, including double leaf doors, signs shall be placed on the nearest adjacent wall. Mounting height shall be 60\"/>

Mounting location for such signage shall be so that a person may approach within 3\"/>

Telephones required to have a volume control by 4.1.3(17)(b) shall be identified by a sign containing a depiction of a telephone handset with radiating sound waves.

Text telephones shall be identified by the international TDD symbol, and if a facility has a public text telephone, directional signage indicating location of the nearest text telephone shall be placed adjacent to all banks of telephones. Such directional signage shall include the international TDD symbol.

Accessible parking space signs shall be designated as reserved by a vertically mounted or suspended sign showing the symbol of accessibility.

Van accessible spaces shall have an additional sign mounted below the symbol of accessibility.

Characters and symbols on such signs shall be located 60\"/>

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CIVIL:

**STRUCTURAL:**

**MEP:**

**OFFICE WAREHOUSE**  
 101 Orange St, La Marque, TX 77568

**ISSUED FOR:**

**REVISIONS:**



DIAZ GROUP LLC

SHEET TITLE:

**ADA ARCHITECTURAL SPECS**

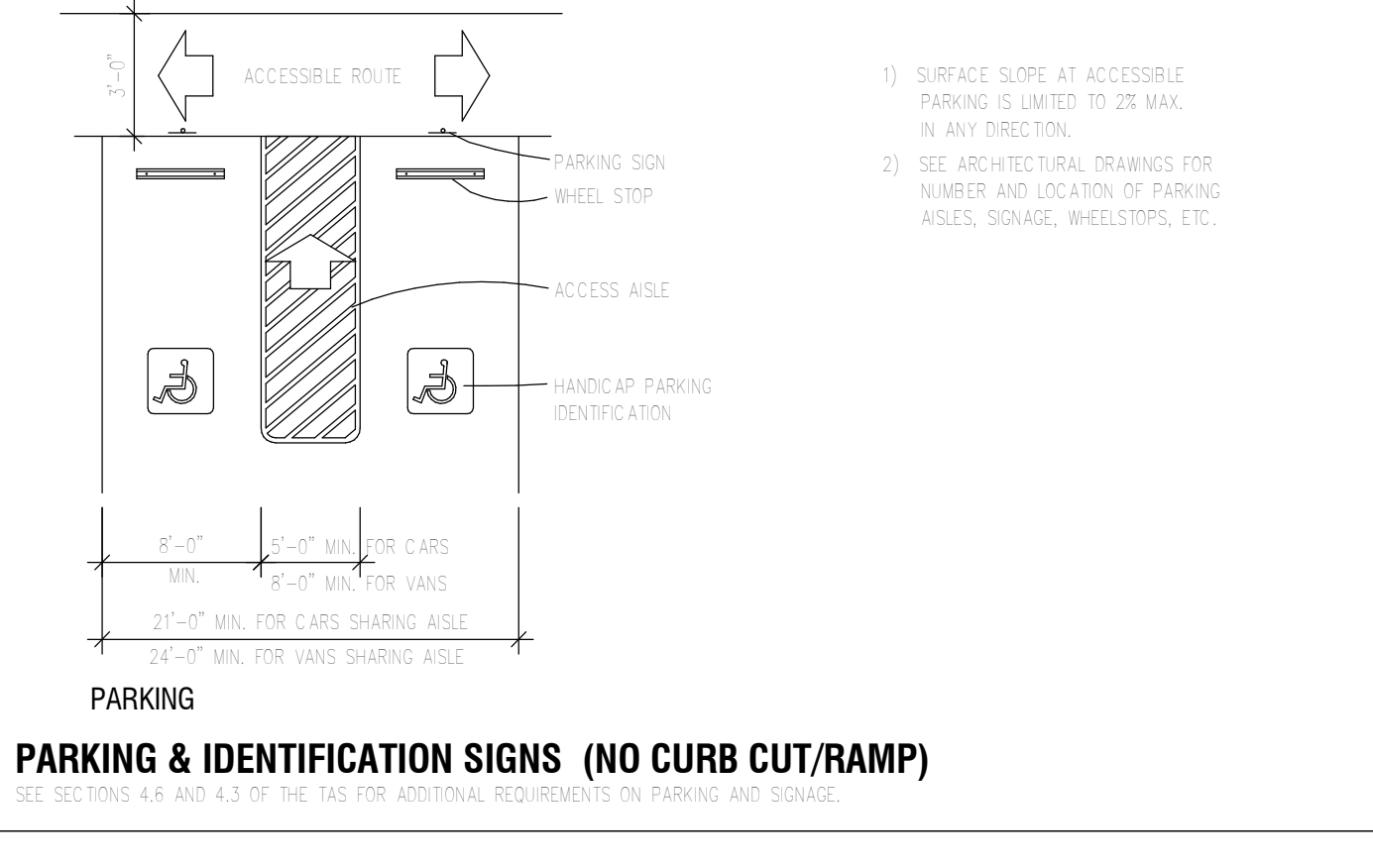
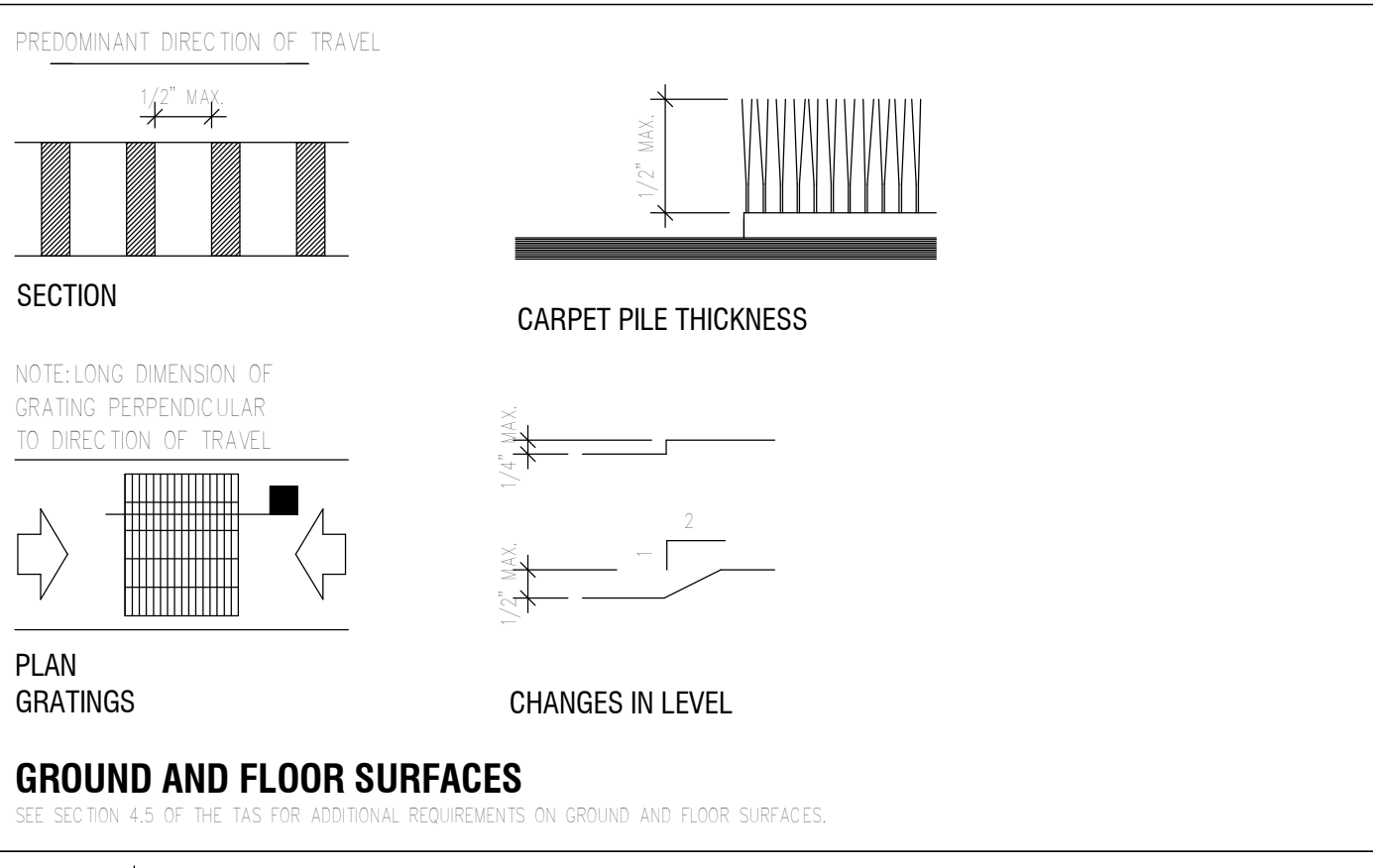
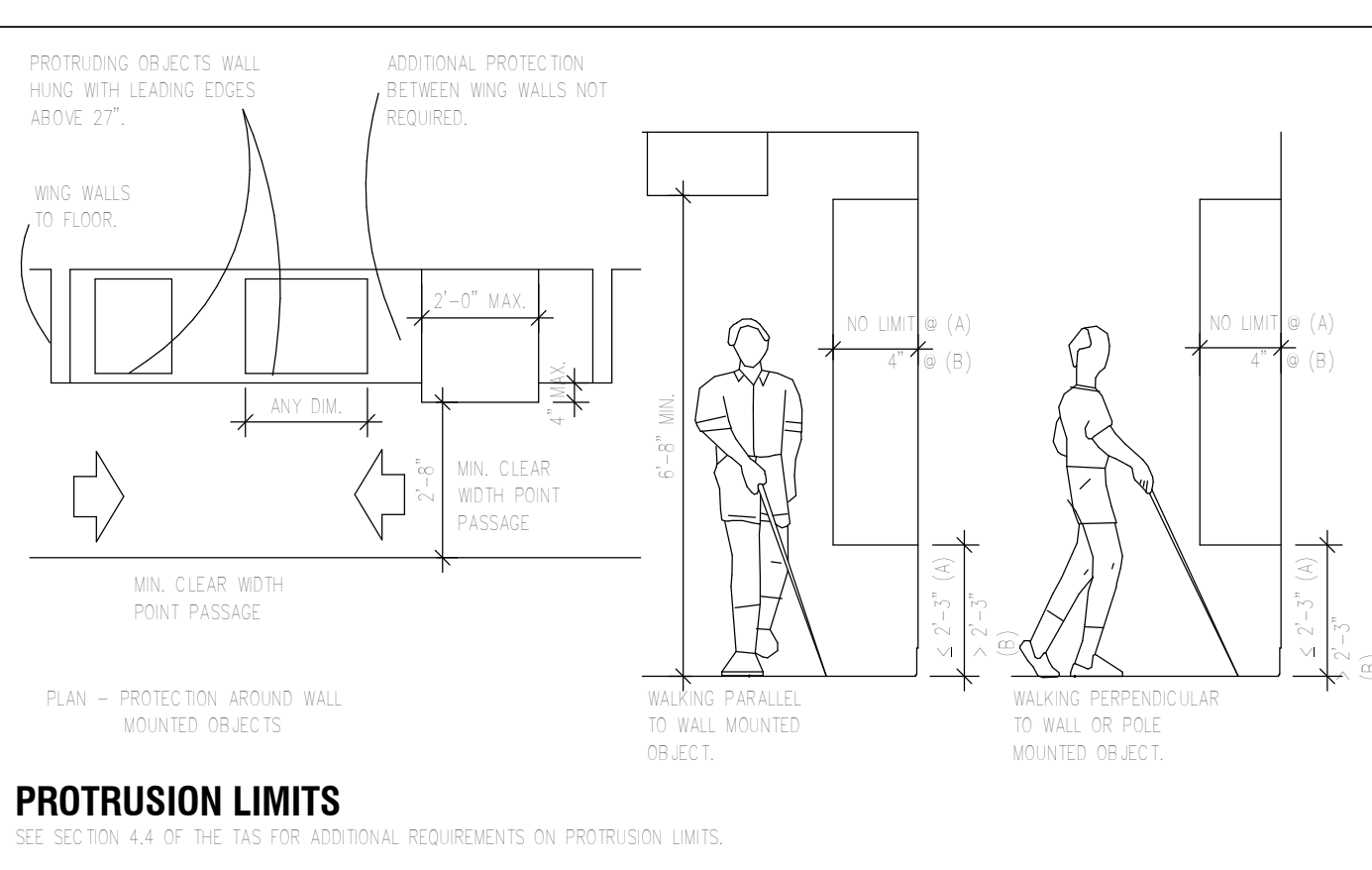
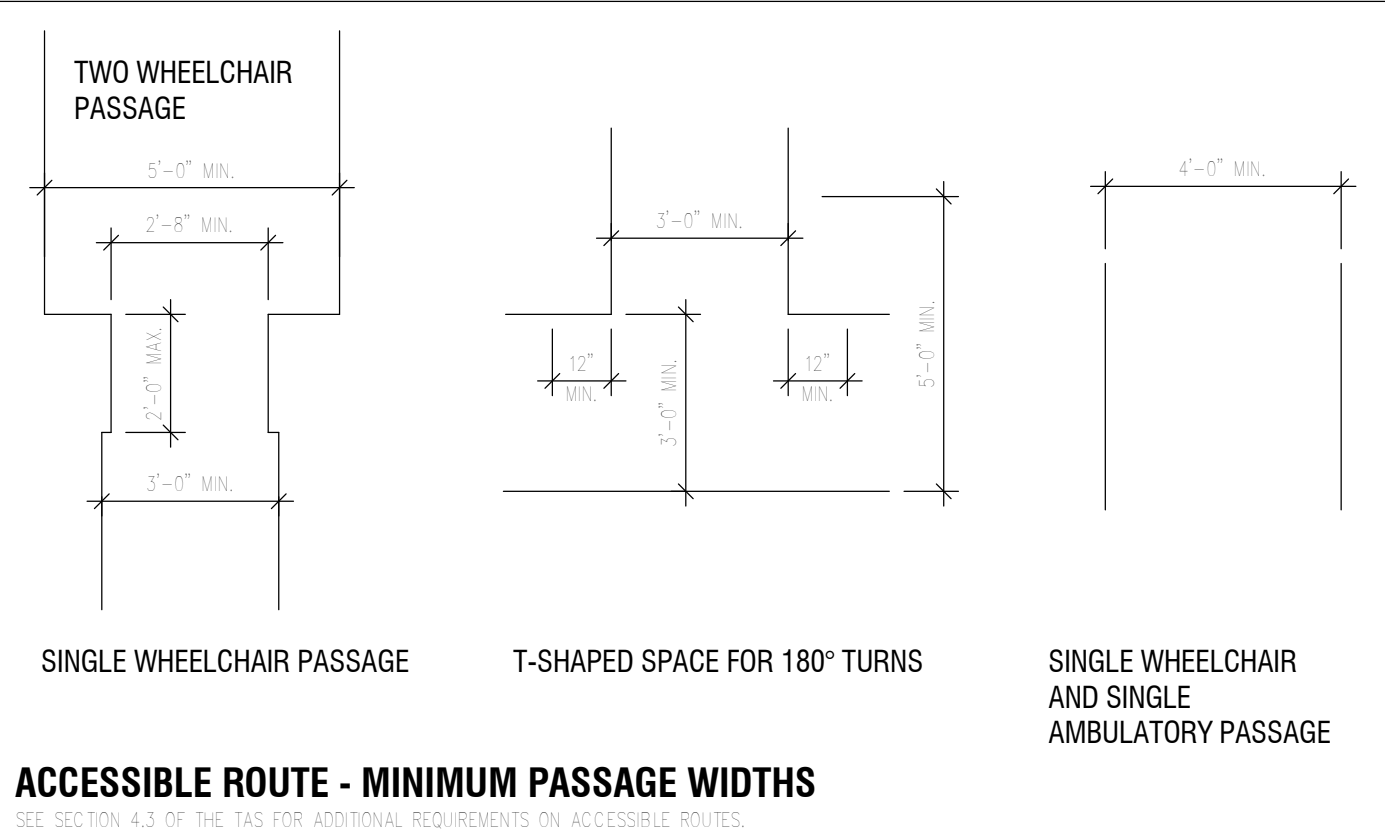
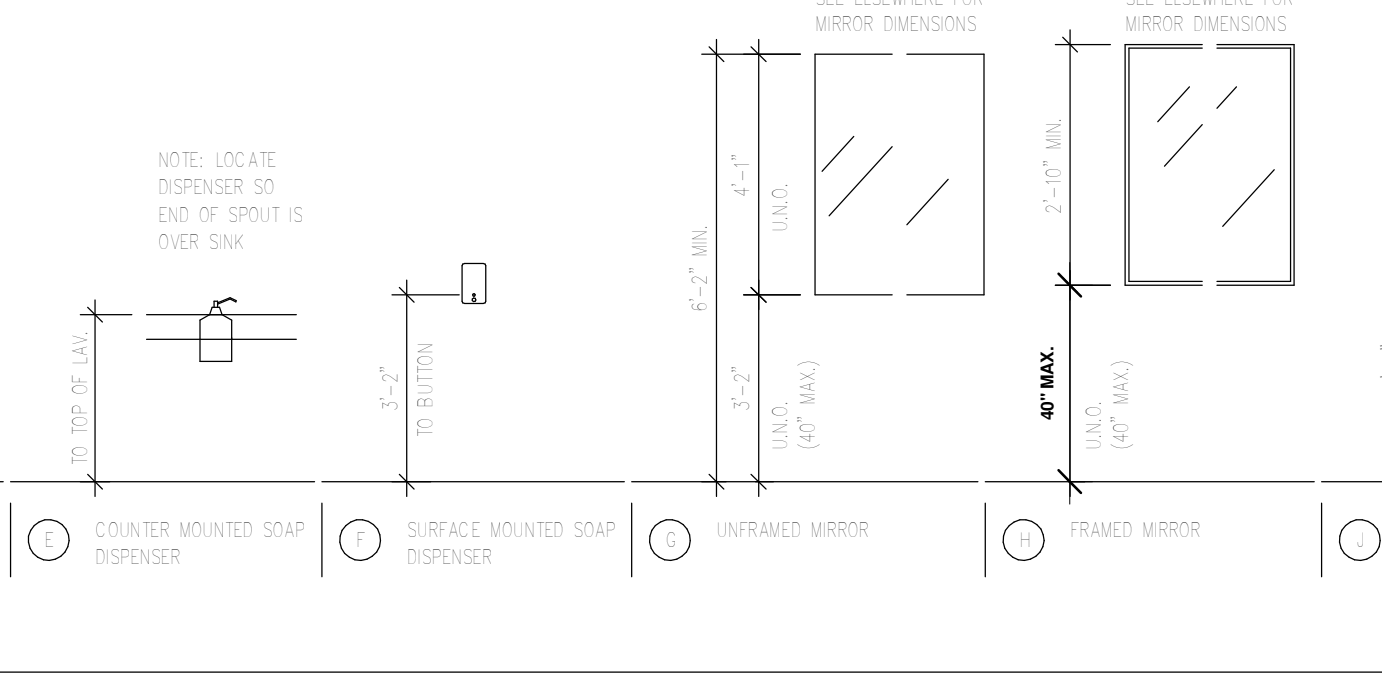
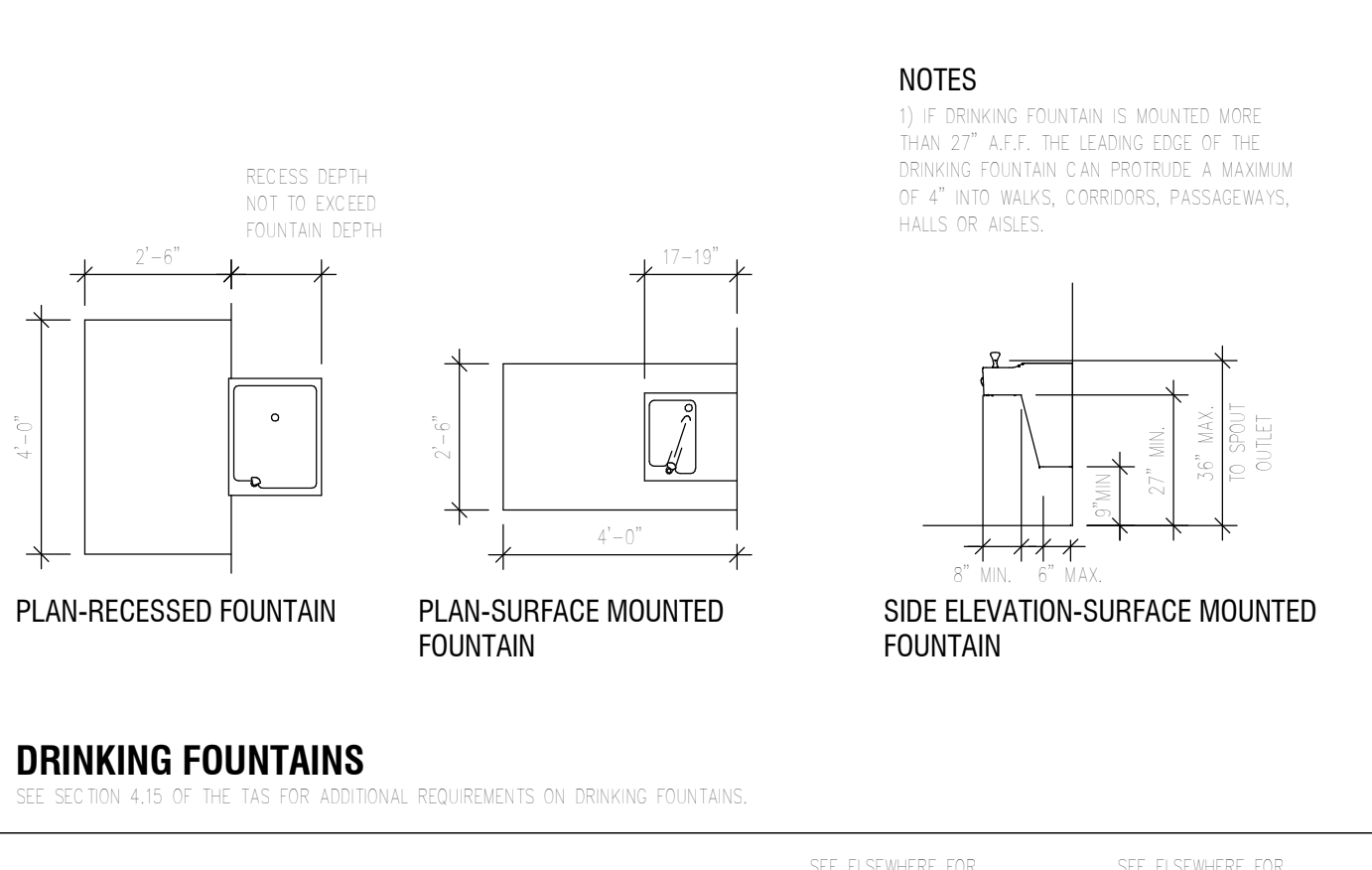
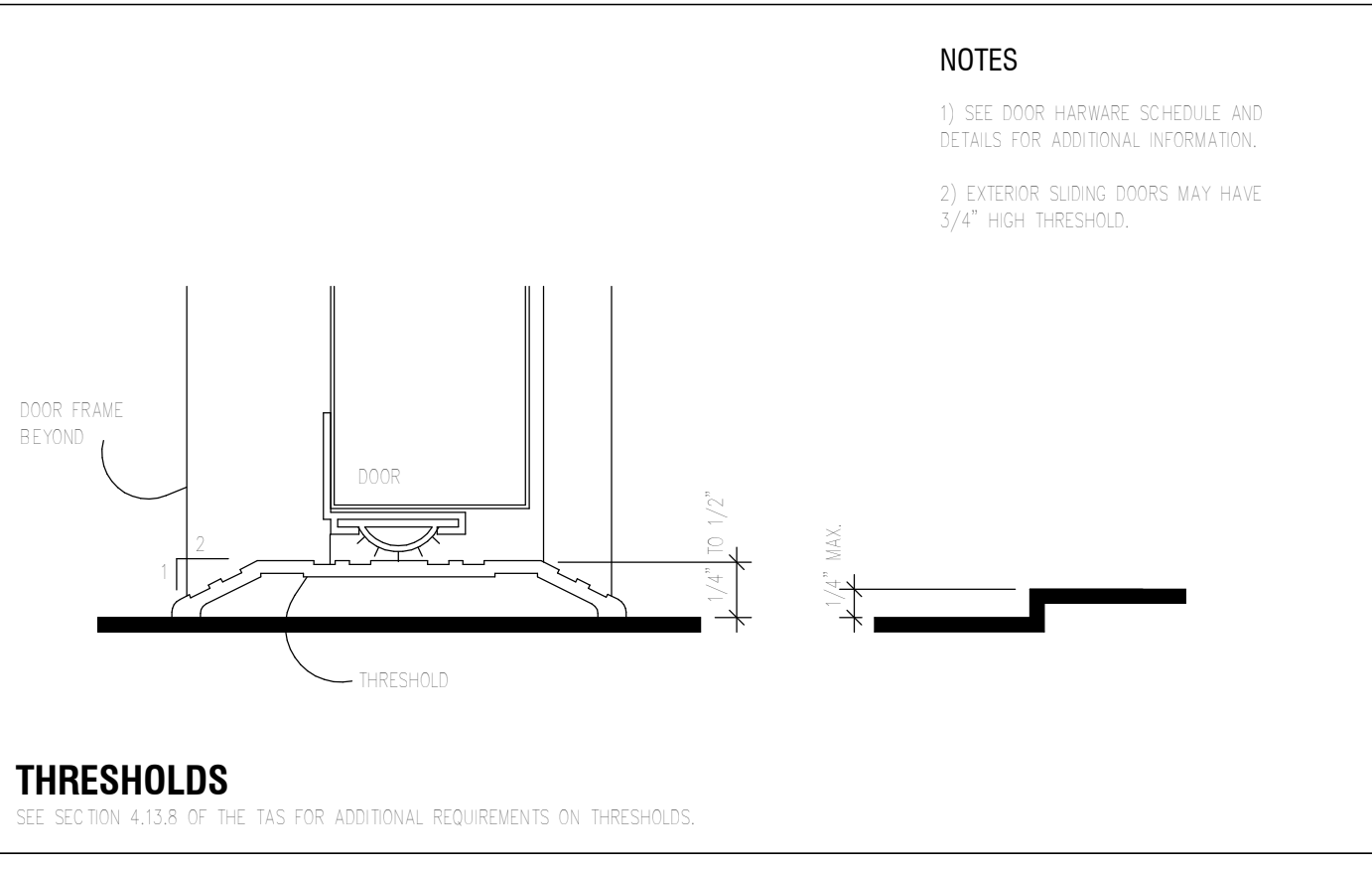
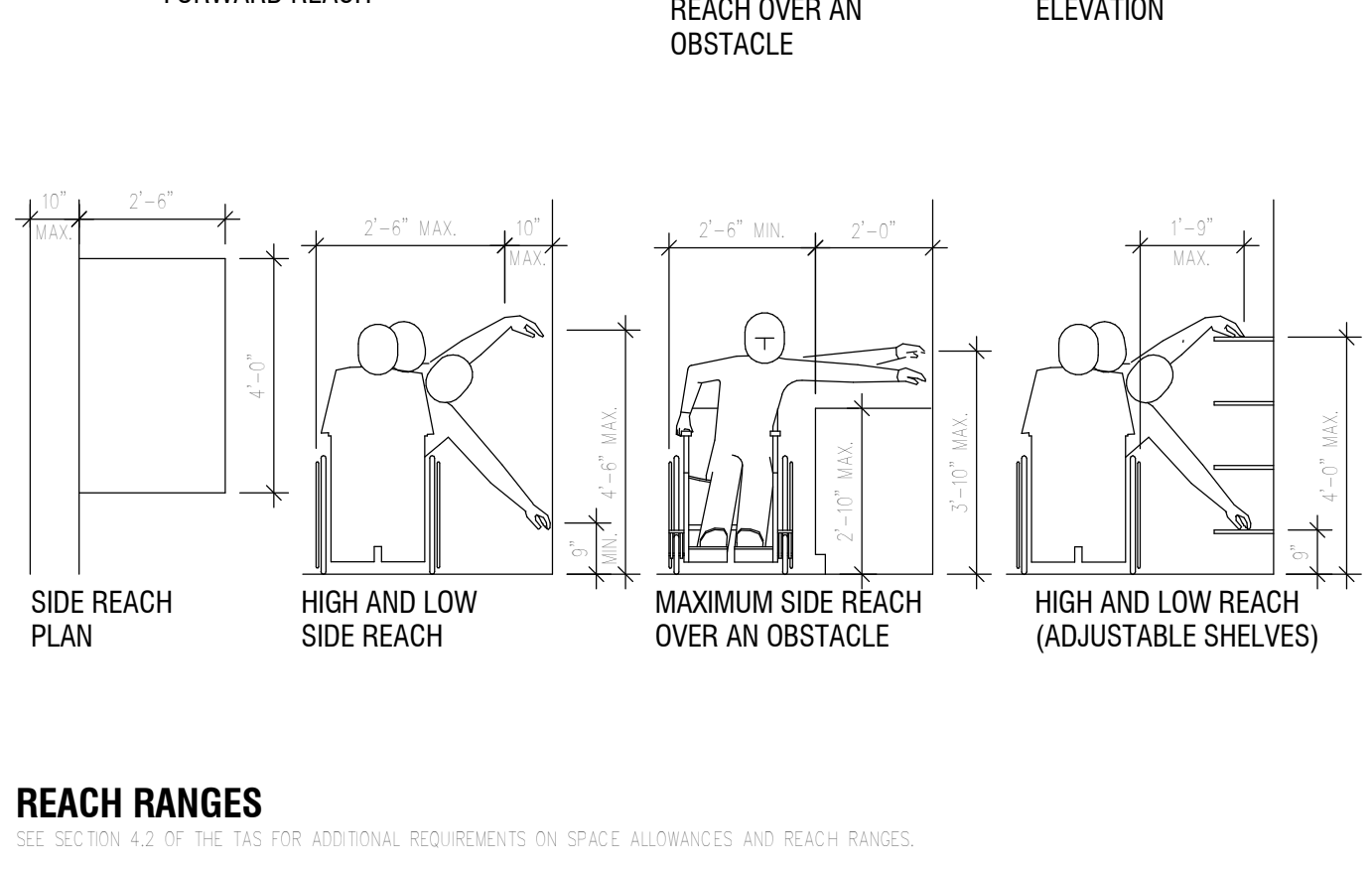
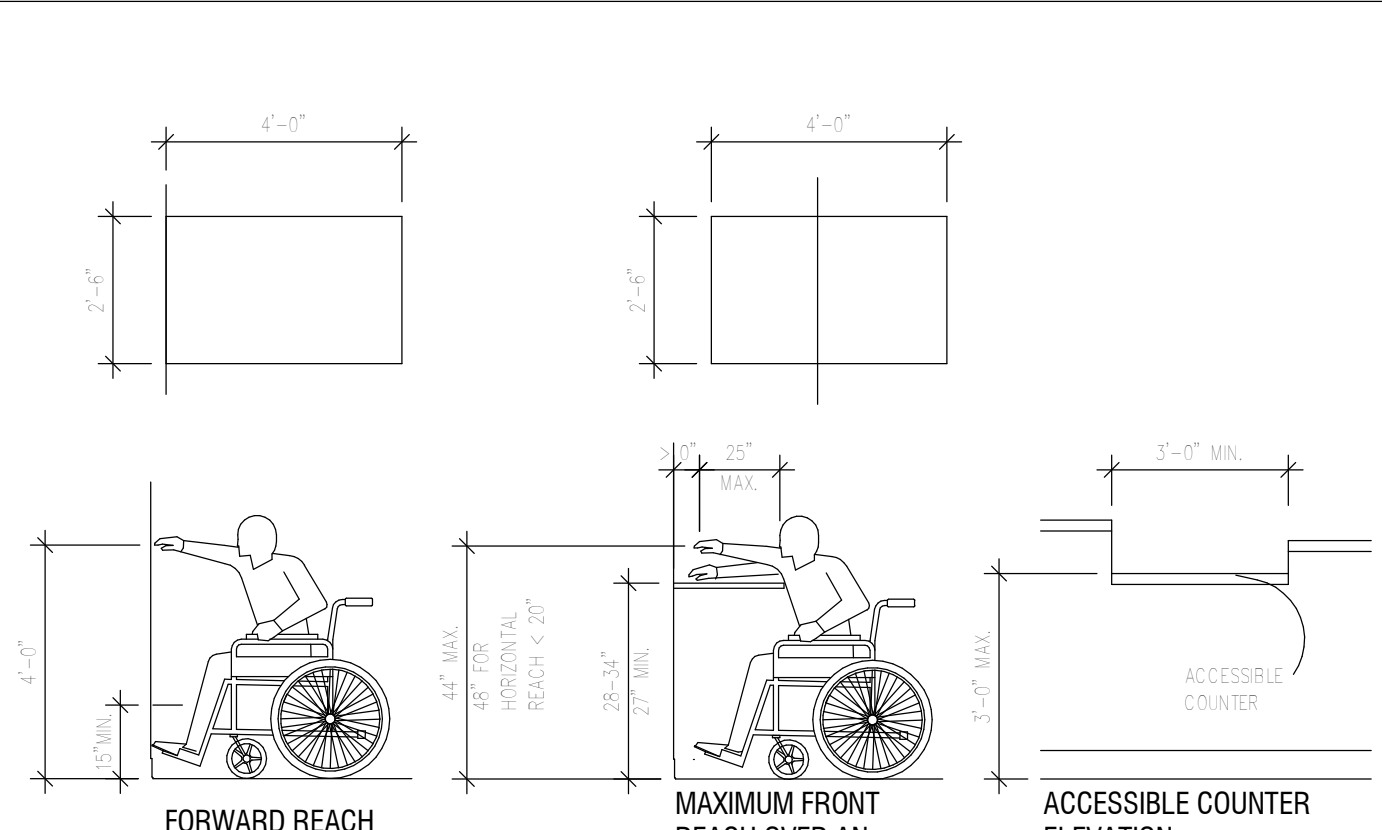
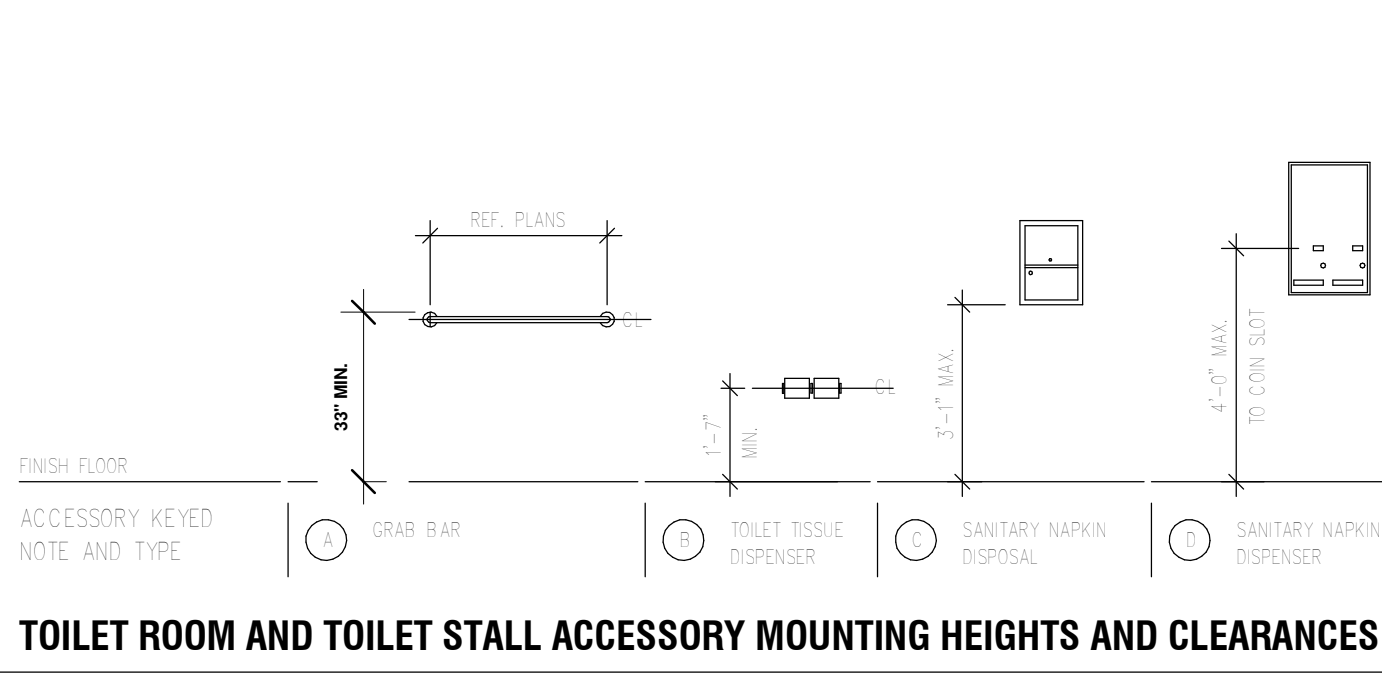
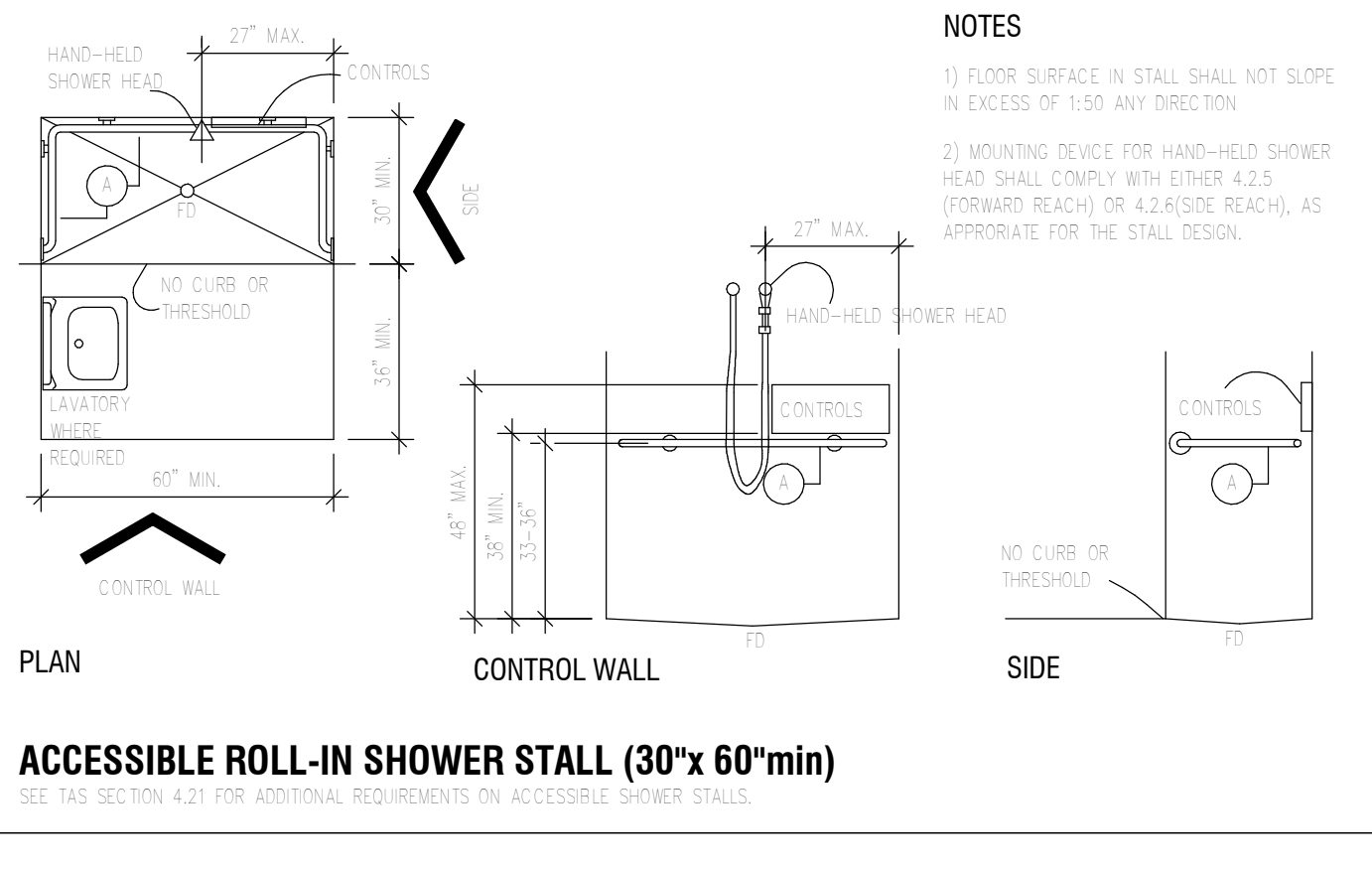
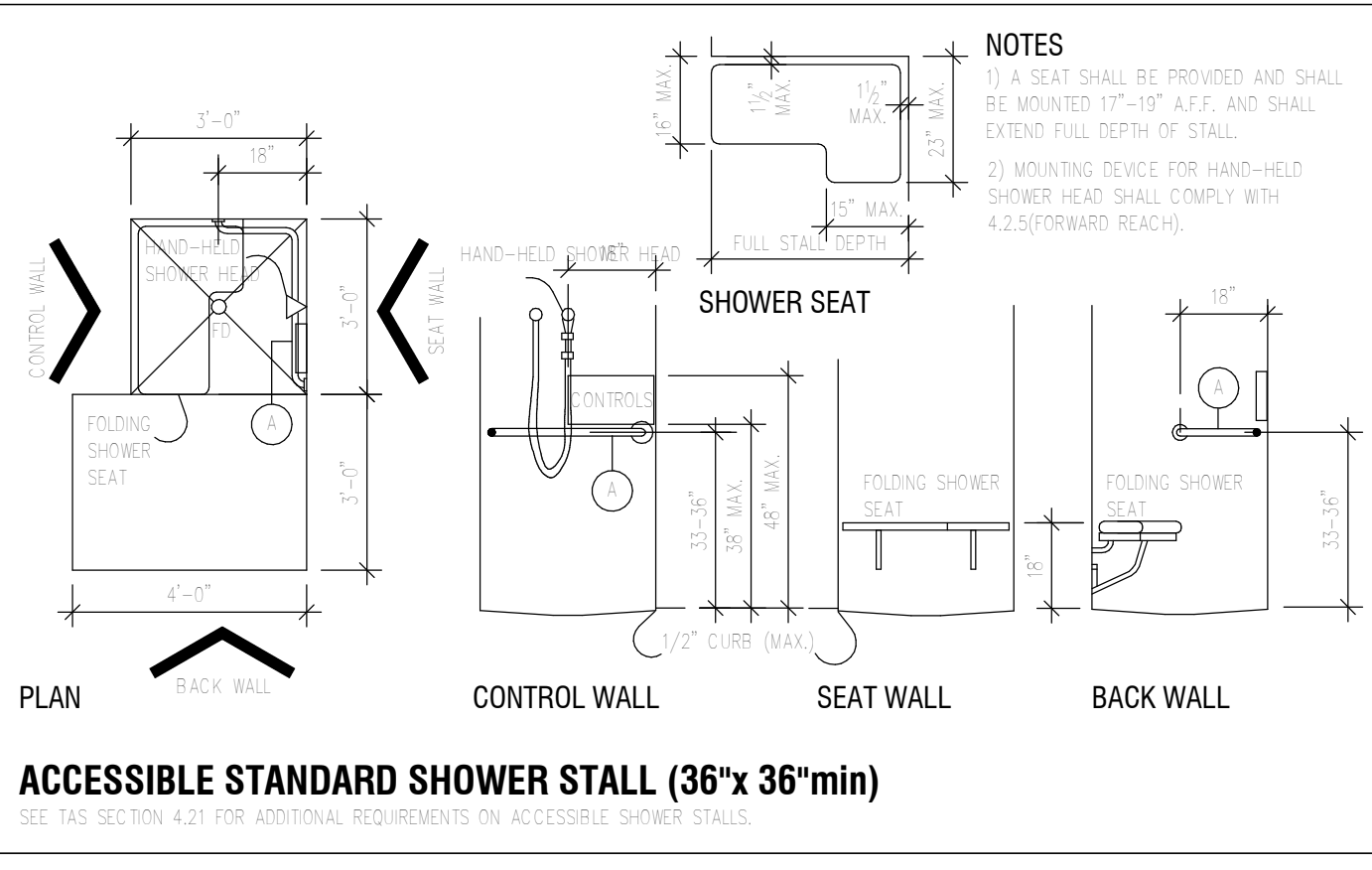
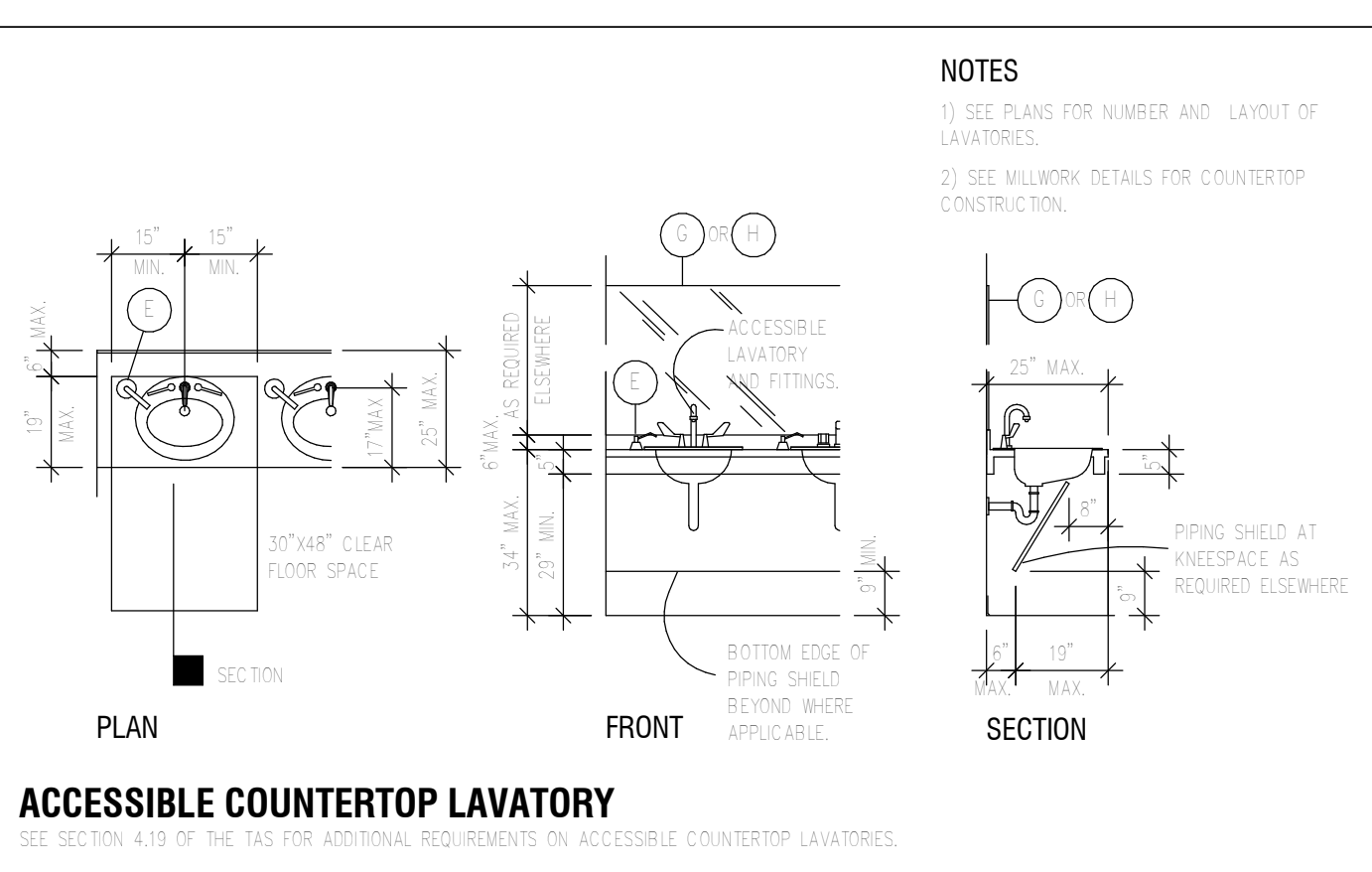
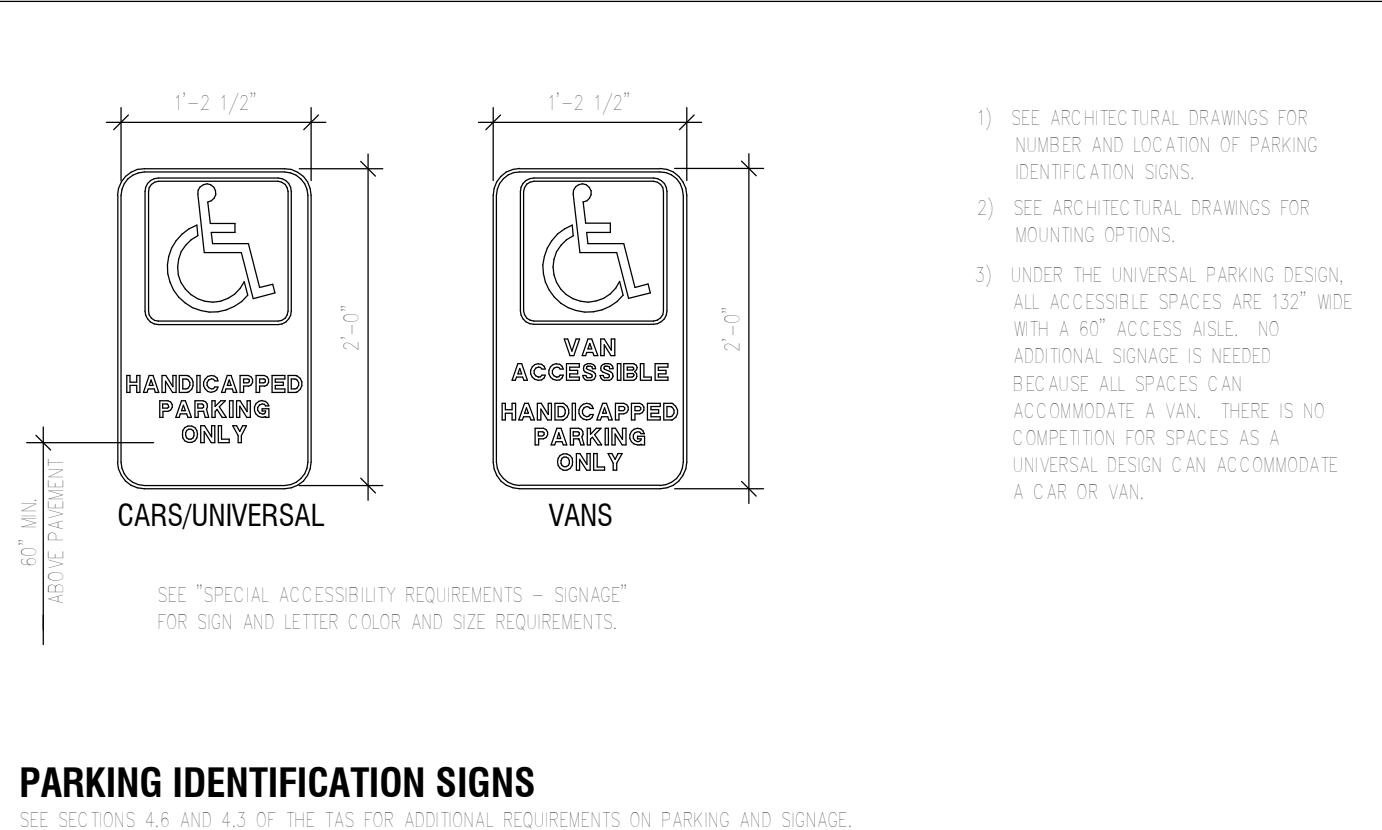
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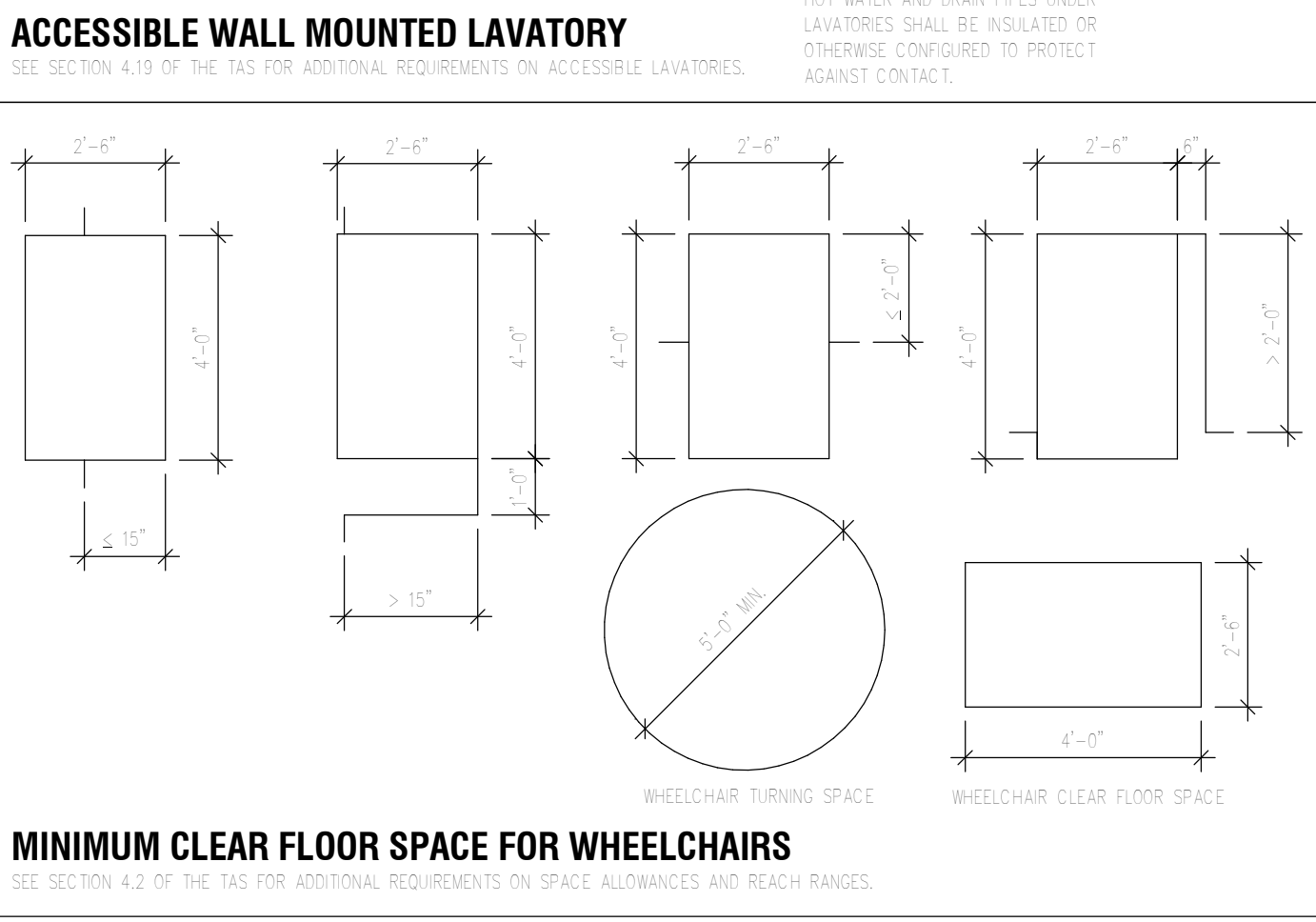
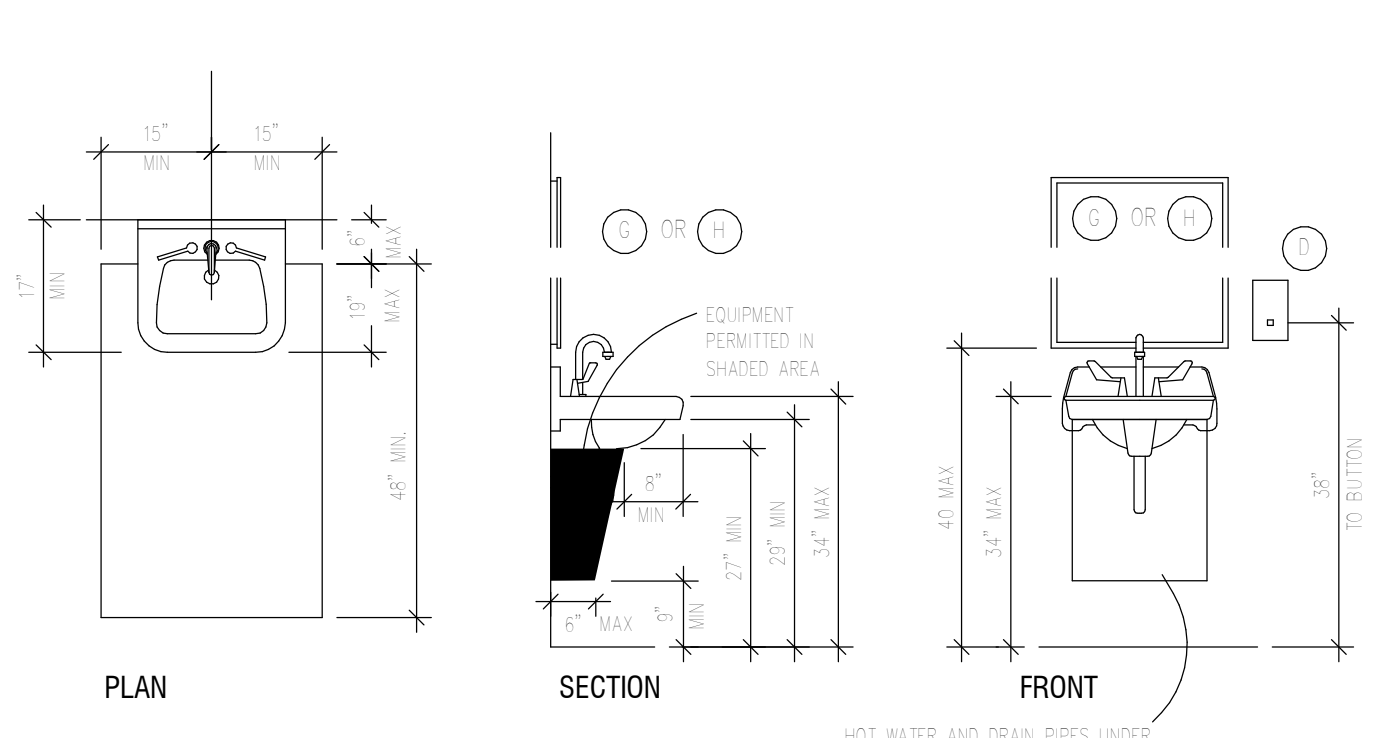
JOB No.: Project Number

SHEET No.:

**A200**



GRAPHIC CONVENTION	DESCRIPTION	GRAPHIC CONVENTION	DESCRIPTION
	TYPICAL DIMENSION LINE SHOWING U.S. CUSTOMARY UNITS (IN INCHES OR FEET AND INCHES).		INTERIOR ELEVATION/SECTION DETAIL REFERENCE.
	CENTERLINE OF PLUMBING FIXTURE OR TOILET ACCESSORY.		SECTION DETAIL REFERENCE.
	BOUNDARY OF CLEAR FLOOR AREA.		DIRECTION OF TRAVEL.
	KEYED NOTE FOR TOILET ROOM OR STALL ACCESSORY. SEE TOILET ROOM ACCESSORY MOUNTING DIAGRAM AND ARCHITECTURAL DRAWINGS AND SPECIFICATIONS.		



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**CONSULTANTS:**  
CIVIL:  
STRUCTURAL:  
MEP:

**OFFICE WAREHOUSE**  
101 Orange St, La Marque, TX 77568

**ISSUED FOR:**  
**REVISIONS:**



**SHEET TITLE:**

**ADA ARCHITECTURAL SPECS**

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

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JOB No.: Project Number

SHEET No.:

**A201**



**FOUNDATION NOTES**

1. **GENERAL NOTES:**  
 A. THESE NOTES SHALL APPLY TO THE STRUCTURAL DRAWINGS (U.N.O.).  
 B. ALL DETAILS OF DESIGN, WORKMANSHIP AND MATERIALS SHALL CONFORM TO THE 2012 INTERNATIONAL BUILDING CODE (U.N.O.).  
 C. GRAVITY LOADS:  
 FIRST FLOOR CEILING FRAMING: DL - 10 PSF LL - 40 PSF  
 SECOND FLOOR CEILING FRAMING: DL - 10 PSF LL - 20 PSF  
 WIND SPEED - 139 MPH, 3 SECOND GUST  
**DESIGN:**  
 A. THIS FOUNDATION IS DESIGNED IN ACCORDANCE WITH CURRENT ACCEPTABLE ENGINEERING PRACTICES FOR THE SITE SHOWN ON THE PLANS AND MAY NOT BE USED IN ANY OTHER LOCATION.  
 B. THIS DESIGN DOES NOT ALLOW FOR IMPROPER DRAINAGE, TREES LOCATED TO CLOSE TO THE FOUNDATION OR IMPROPER MAINTENANCE.

2. **SITE WORK:**  
 A. PLACE SOIL IN COMPLIANCE WITH GEOTECHNICAL ENGINEERS SITE PREPARATION RECOMMENDATIONS.  
 B. FINAL GRADE AT EXTERIOR BEAMS SHALL BE COMPLETED WITH NATURAL CLAY MATERIALS, NO SAND SHALL BE ALLOWED, SLOPE GRADE AWAY FROM FOUNDATION ONE INCH PER FOOT FOR THE FIRST FIVE FEET AND SIX INCHES MINIMUM IN TEN FEET.

3. **FOUNDATION NOTES:**  
 A. SEE FOUNDATION PLAN FOR NET TOTAL LOAD AND NET SUSTAINED LOAD SOIL BEARING CAPACITY, DEPTH OF FOOTING, AND GEOTECHNICAL ENGINEER REPORT NUMBER AND AUTHOR.  
 B. ALL FOUNDATION EXCAVATION TO BE CARRIED TO UNDISTURBED MATERIAL OR PLACED IN APPROVED ENGINEERED FILL. EXCAVATIONS SHALL BE FREE OF LOOSE MATERIAL AND WATER.  
 C. OVER EXCAVATION OF MATERIALS SHALL BE BACK FILLED WITH CONCRETE.  
 D. ALL BACK FILL AROUND FOOTINGS, BEHIND WALLS, AND UNDER SLABS SHALL BE COMPACTED. SEE SOILS REPORT FOR SITE PREPARATION SPECIFICATIONS.  
 E. BACK FILLING AGAINST FOUNDATION WALLS WILL NOT BE PERMITTED UNTIL THE FOUNDATION HAS REACHED 28 DAY STRENGTH AND ALL SUPPORTING STRUCTURE IS IN PLACE.

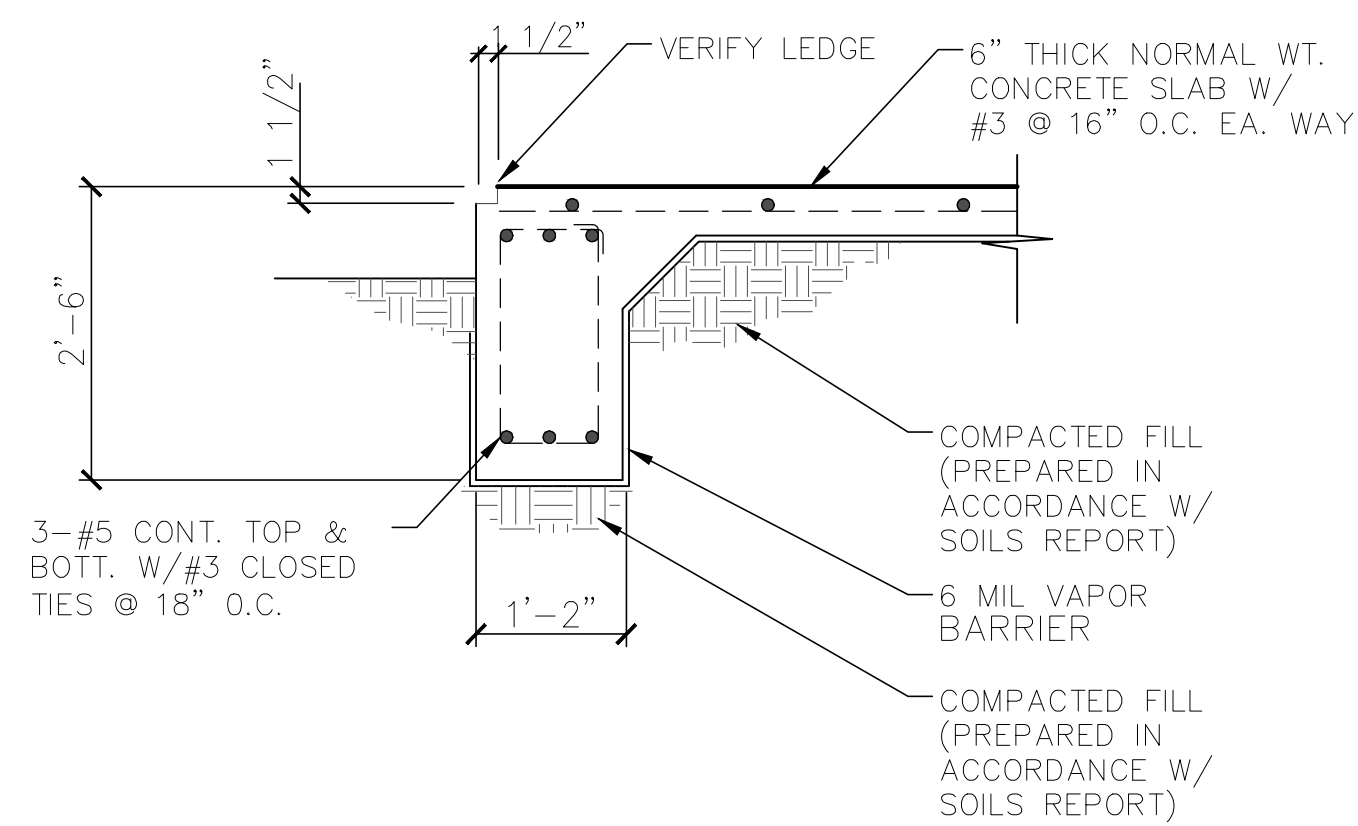
4. **MATERIALS:**  
 A. PLACE A 6 MIL VAPOR BARRIER OF POLYETHYLENE UNDER ALL SLABS.  
 B. CONCRETE SHALL BE SUPPLIED AND CONSTRUCTED IN ACCORDANCE WITH ACI-318 LATEST EDITION AND SHALL HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 2500 PSI.  
 C. CONCRETE MUST ATTAIN A MINIMUM COMPRESSIVE STRENGTH OF 2000 PSI AT THE TIME OF STRESSING.  
 D. PRE STRESSING TENDONS WILL CONSIST OF 270 K 7 WIRE STRAND LOW RELAXATION CABLE WITH PREVENTATIVE LUBRICANT AND WRAPPED WITH PLASTIC SHEATHING CONFORMING TO ASTM A-416. END ANCHORAGE DEVICES WILL CONFORM TO P.T.I. DESIGN SPECIFICATIONS. ALL SHEATHING DAMAGED 4" OR LONGER SHALL BE TAPED SECURELY.  
 E. 1/2" DIAMETER TENDONS SHALL BE ANCHORED AT 28.9 KIPS PER TENDON, BUT MAY BE INITIALLY STRESSED AT 33.0 KIPS PER TENDON.  
 F. ELONGATION REPORT MUST BE PROVIDED BY A QUALIFIED ENGINEERING FIRM, OR OTHERS APPROVED BY THIS OFFICE. A REPORT SHALL ALSO BE PROVIDED CERTIFYING THAT THE TENDONS ARE PROPERLY CUT AND GROUTED.  
 G. MILD STEEL REINFORCING: REBAR-ASTM A-615-60, WELDED WIRE FABRIC-ASTM A-185.

5. **QUALIFICATION:**  
 A. POST TENSION CONTRACTOR WILL, UPON REQUEST, FURNISH:  
 B. LABORATORY TESTS ON ANCHORAGE SYSTEM.  
 C. LATEST CALIBRATION DATE OF EQUIPMENT USED.  
 D. LABORATORY YES COEFFICIENT OF FRICTION ON TENDONS.  
 E. MIL TEST ON TENDONS.

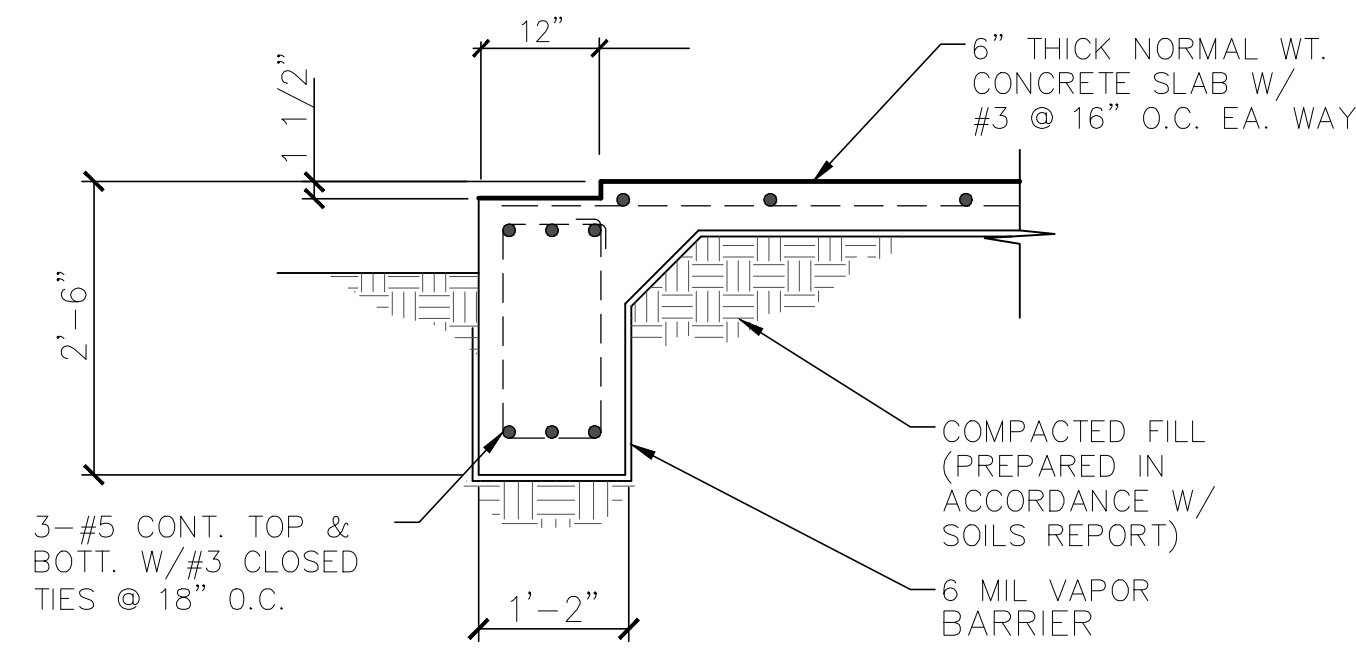
6. **CONSTRUCTION:**  
 A. BEAM DIMENSIONS SHOWN ARE THE MINIMUM SIZE REQUIRED AND MAY NOT BE REDUCED OR ENLARGED WITHOUT PRIOR APPROVAL OF THE STRUCTURAL ENGINEER.  
 B. EXTERIOR BEAMS ARE TO BEAR 12" (MINIMUM) INTO NATURAL GRADE OR FILL PROPERLY COMPACTED IN COMPLIANCE WITH GEOTECHNICAL ENGINEERS SITE PREPARATION RECOMMENDATIONS.  
 C. CONCRETE SHALL BE WELL CONSOLIDATED, ESPECIALLY IN THE VICINITY OF TENDON ANCHORAGES.  
 D. SUPPORT TENDONS AND BARS SECURELY TO PREVENT BOTH VERTICAL AND HORIZONTAL MOVEMENT DURING PLACEMENT OF CONCRETE.  
 E. THERE WILL BE NO PLUMBING LINES RUNNING PARALLEL TO AND WITHIN OR UNDER ANY FOUNDATION GRADE BEAM.

7. **SPECIAL NOTES:**  
 A. DETAIL #1 (THIS SHEET) SHALL BE TYPICAL AT ALL EXTERIOR GRADE BEAM DETAILS (UNLESS OTHERWISE NOTED ON DETAIL).  
 B. DETAIL #4 (THIS SHEET) SHALL BE TYPICAL AT ALL INTERIOR GRADE BEAM DETAILS (UNLESS OTHERWISE NOTED ON DETAIL).  
 C. BUILDING CONTRACTOR MUST VERIFY ALL FORM SETTING DIMENSIONS, DROPS, OFFSETS, BRICK LEDGES AND BLACKOUTS ON ARCHITECTURAL PLANS AND NOTIFY THE STRUCTURAL ENGINEER OF ANY DISCREPANCIES THAT MAY EXIST ON THESE PLANS PRIOR TO CONSTRUCTION.  
 D. THE BUILDING CONTRACTOR MUST COORDINATE STRUCTURAL PLANS WITH ARCHITECTURAL AND MECHANICAL PLANS FOR ALL OPENINGS, INSERTS AND OTHER RELATED ITEMS REQUIRED TO COMPLETE THE FOUNDATION.  
 E. DO NOT SCALE FOUNDATION PLAN OR DETAILS.

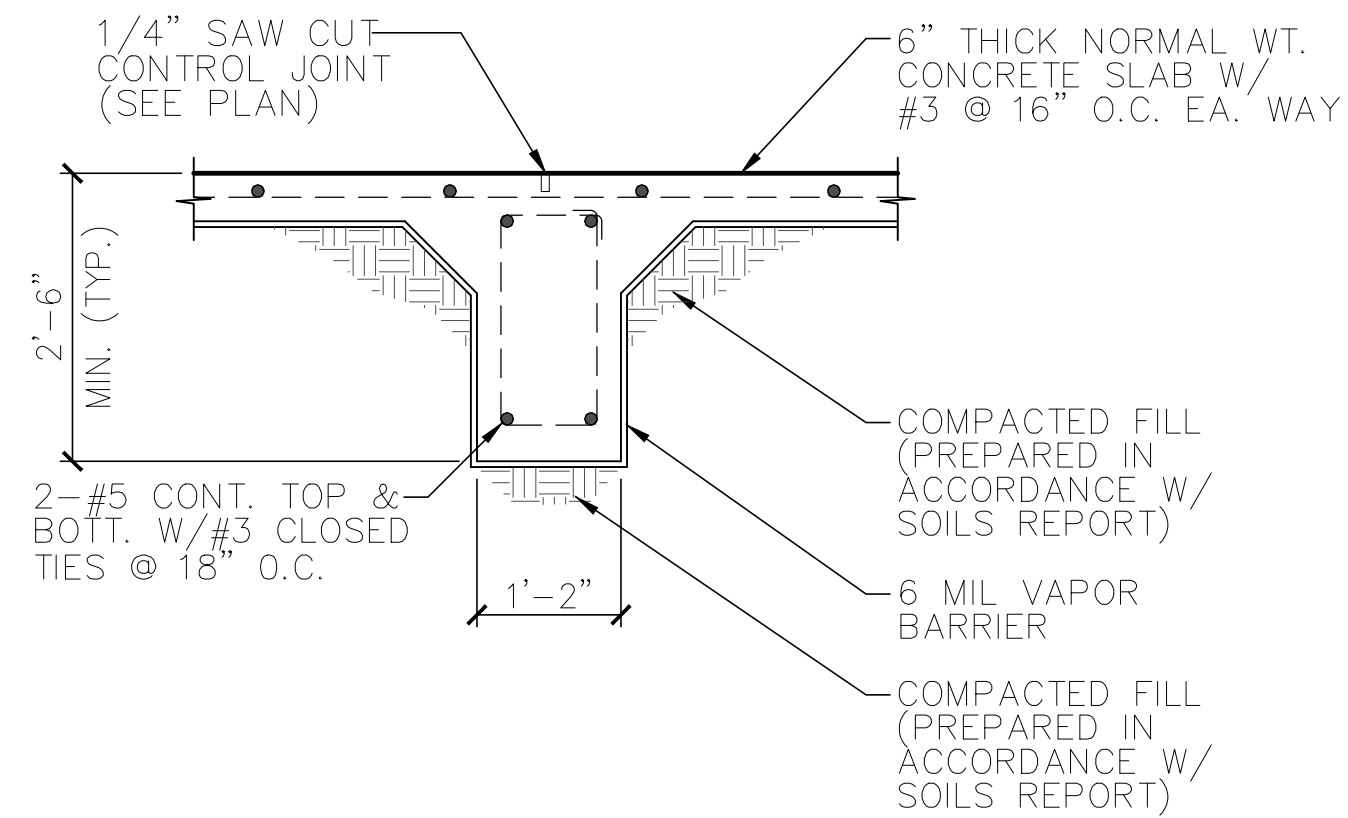
8. **FOUNDATION DESIGN INFORMATION:**  
 A. ALL EXTERIOR GRADE BEAMS ARE 12" WIDE BY 28" DEEP.  
 B. ALL INTERIOR GRADE BEAMS ARE 12" WIDE BY 24" DEEP.  
 C. THIS FOUNDATION IS SUITABLE FOR THE SITE AND HAS BEEN DESIGNED IN ACCORDANCE WITH RECOGNIZED ENGINEERING.



1 FOUNDATION DETAIL  
NOT TO SCALE



3 FOUNDATION DETAIL  
NOT TO SCALE



2 FOUNDATION DETAIL  
NOT TO SCALE

NOTE:  
ALL FOUNDATION CONCRETE SHALL BE 3000 PSI STRENGTH AFTER 30 DAYS.

NOTE:  
PREPARE SOILS IN ACCORDANCE WITH SOILS REPORT.

NOTE:  
- NET ALLOWABLE SOIL BEARING PRESSURES OF 1,500 PSF, FOR SUSTAINED DL+LL  
 - TOTAL ALLOWABLE SOIL BEARING PRESSURES OF 2,000 PSF.  
 - STRUCTURAL FILL SHALL BE PLACED IN LOOSE 8" LIFT AND COMPACTED

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Date: 02-04-2025

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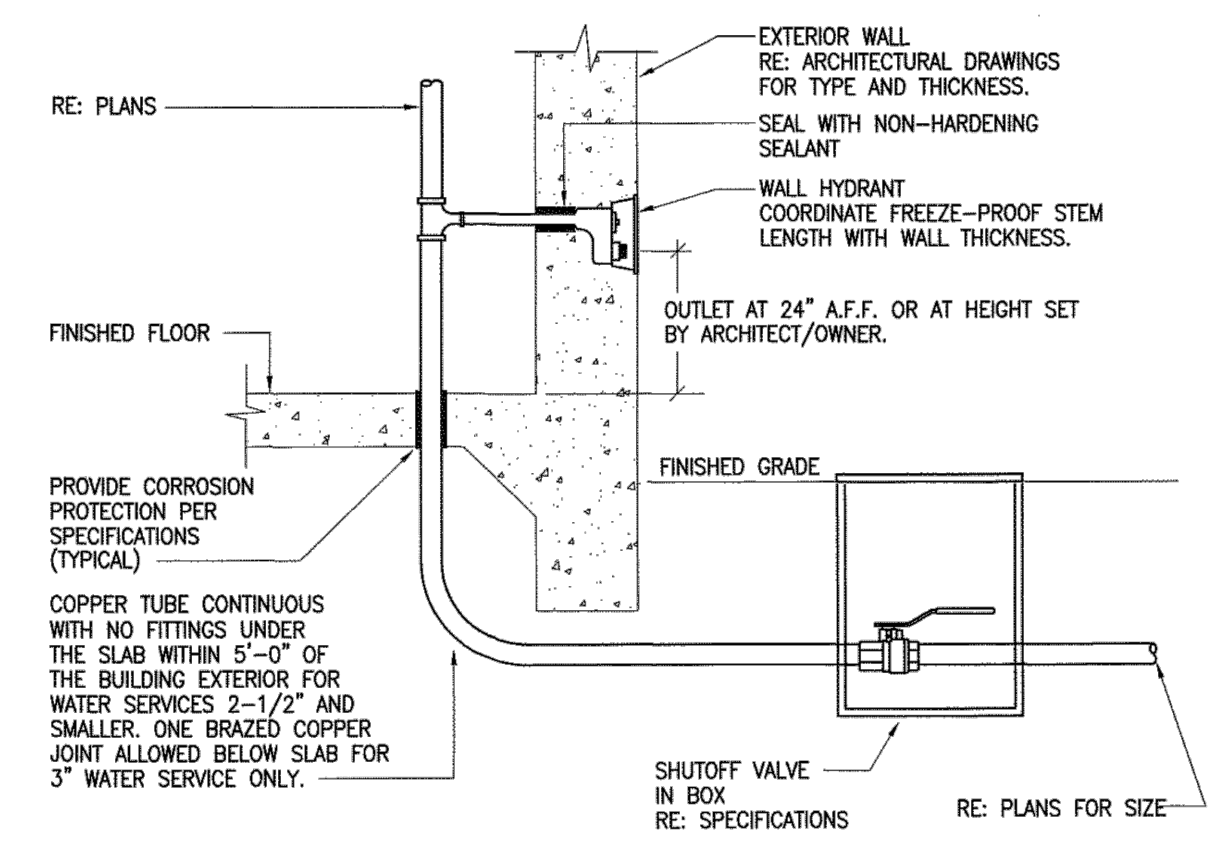
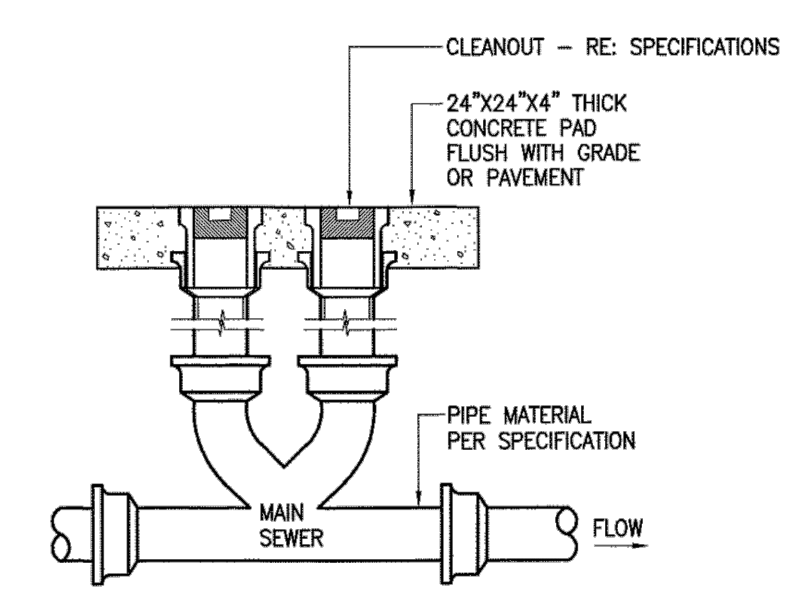
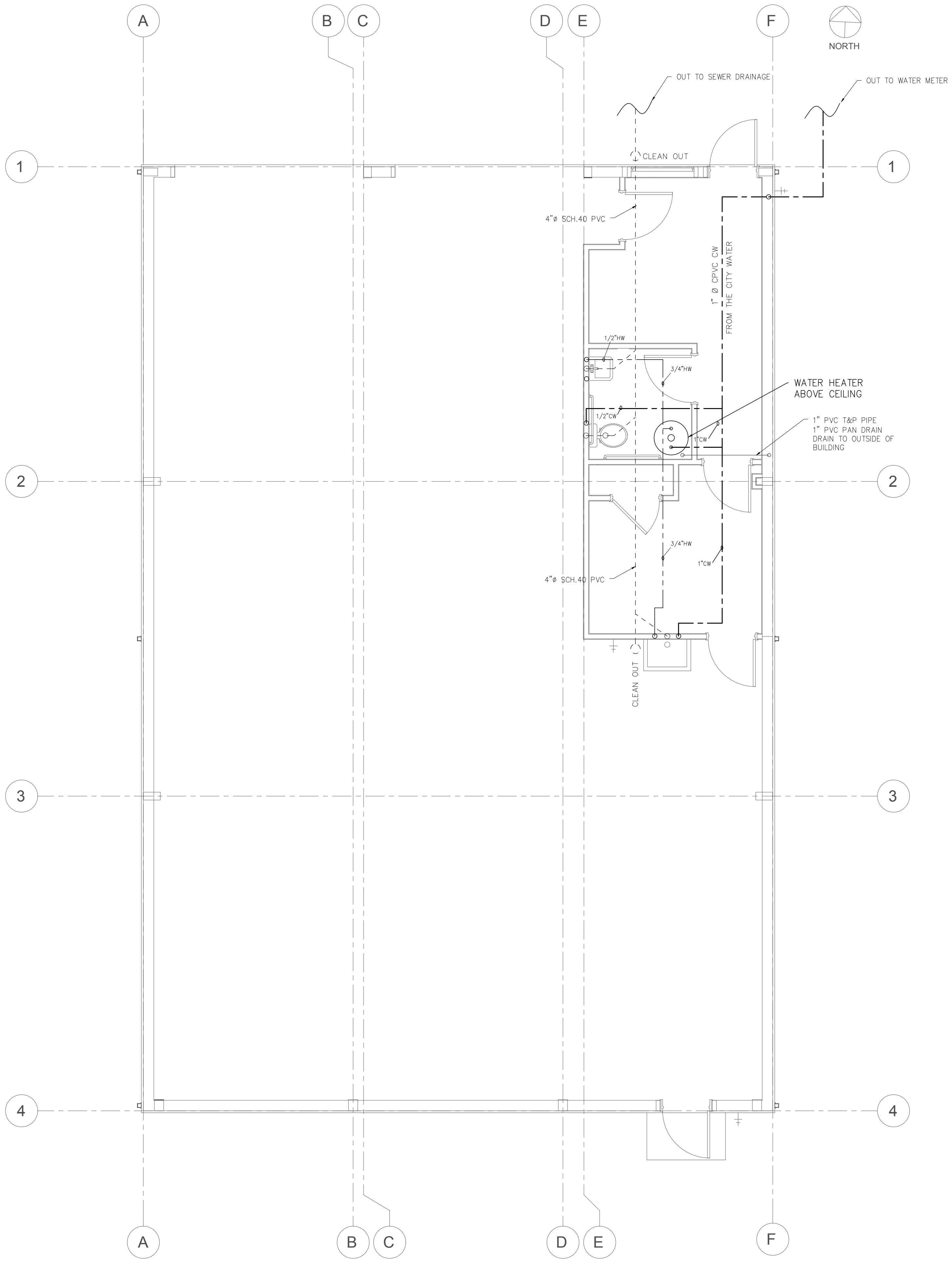
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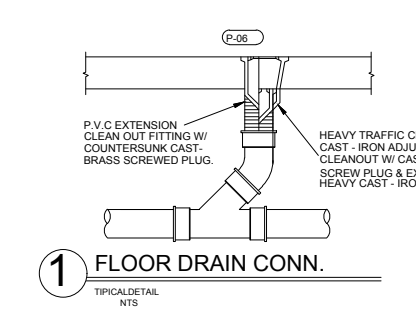
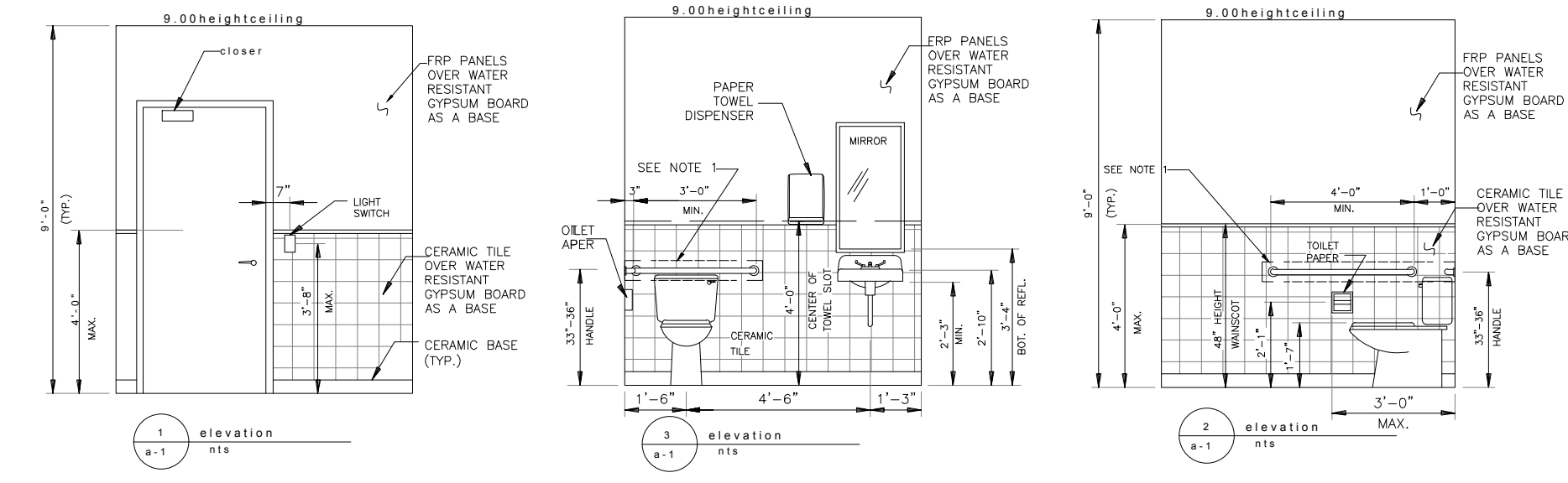
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Rev. Date: 06-20-2024  
Job No.:

Sheet No.:

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**SECTION 1002 IPC 2012 TRAP REQUIREMENTS**  
1002.1 Fixture traps. Each plumbing fixture shall be separately trapped by a water-seal trap, except as otherwise permitted by this code. The vertical distance from the fixture outlet to the trap weir shall not exceed 24 inches (610 mm) and the horizontal distance shall not exceed 30 inches (762 mm) measured from the centerline of the fixture outlet to the centerline of the inlet of the trap. The height of a clotheswasher standpipe above a trap shall conform to Section 902.4. A fixture shall not be double trapped.  
1002.2 Design of traps. Fixture traps shall be self-scouring. Fixture traps shall not have interior partitions, except where such traps are integral with the fixture or where such traps are constructed of an approved material that is resistant to corrosion and degradation. Slip joints shall be made with an approved elastomeric gasket and shall be installed only on the trap inlet, trap outlet and within the trap seal.  
1002.3 Prohibited traps. The following types of traps are prohibited:  
1. Traps that depend on moving parts to maintain the seal.  
2. Bell traps.  
3. Crown-vented traps.  
4. Traps not integral with a fixture and that depend on interior partitions for the seal, except those traps constructed of an approved material that is resistant to corrosion and degradation.  
5. "S" traps.  
6. Drum traps.  
Exception: Drum traps used as solids interceptors and drum traps serving chemical waste systems shall not be prohibited.  
1002.4 Trap seals. Each fixture trap shall have a liquid seal of not less than 2 inches (51 mm) and not more than 4 inches (102 mm), or deeper for special designs relating to accessible fixtures. Where a trap seal is subject to loss by evaporation, a trap seal primer valve shall be installed. A trap seal primer valve shall conform to ASSE 1019 or ASSE 1044.  
1002.5 Size of fixture traps. Fixture trap size shall be sufficient to drain the fixture rapidly and not less than the size indicated in Table 702.1. A trap shall not be larger than the drainage pipe into which the trap discharges.  
1002.6 Building traps. Building (house) traps shall be prohibited, except where local conditions necessitate such traps. Building traps shall be provided with a cleanout and a relief vent or fresh air intake on the inlet side of the trap. The size of the relief vent or fresh air intake shall not be less than one-half the diameter of the drain to which the relief vent or air intake connects. Such relief vent or fresh air intake shall be carried above grade and shall be terminated in a screened outlet located outside the building.  
1002.7 Trap setting and protection. Traps shall be set level with respect to the trap seal and, where necessary, shall be protected from freezing.  
1002.8 Recess for trap connection. Access provided for connection of the underground trap, such as one serving a bathtub in slab-type construction, shall have sides and a bottom of corrosion-resistant, insect- and verminproof construction.  
1002.9 Acid-resisting traps. Where a vitrified clay or other brittleware, acid-resisting trap is installed underground, such trap shall be embedded in concrete extending 6 inches (152 mm) beyond the bottom and sides of the trap.  
1002.10 Plumbing in mental health centers.



PLUMBING FIXTURE SCHEDULE				
No.	FIXTURE TYPE	CONNECTION SIZE		
		S.S.	VENT C.W.	F.L.W.
[P-1]	WATER CLOSET	4"	2"	1 1/2"
[P-2]	LAVATORY	2"	2"	1 1/2"
[P-3]	CLEAN OUT	4"	2"	
[P-6]	FLOOR DRAIN	3"	2"	

ALL PLUMBING FIXTURES SHALL COMPLY WITH ADA REGULATIONS.

**PIPING MATERIALS**  
ALL WATER PIPING SYSTEMS WILL BE VALVED AT THE SOURCE: ON INLET SIDE OF HEATERS, EACH SIDE OF EQUIPMENT AND AT ALL FIXTURES.  
• WATER PIPING INSIDE BUILDING WILL BE COPPER.  
• SANITARY SEWER IS TO BE SCHEDULE 40 PVC W/DW FITTINGS  
• VENT PIPING SHALL BE SCHEDULE 40 PVC  
• CLEANOUTS SHALL BE ZURN OR APPROVED EQUAL  
• WATER LINES ABOVE SLAB SHALL BE TYPE "L" COPPER. WATER LINES BELOW THE SLAB SHALL BE TYPE "M".  
• HOT WATER: INSULATION 1" FIBERGLAS PIPE

SERVICE	INSIDE ABOVE GRADE			INSIDE BELOW GRADE			OUTSIDE BUILDOUT		
	PIPE	CONNECTION	INSULATION	PIPE	CONNECTION	INSULATION	PIPE	CONNECTION	INSULATION
SANITARY WASTE AND VENT	SCHEDULE 40 PVC	SOLVENT WELD		SCHEDULE 40 PVC	SOLVENT WELD		SCHEDULE 40 PVC	SOLVENT WELD	
DOMESTIC COLD WATER	SCHEDULE CPVC	SOLVENT WELD	1/2" ARMAFLEX	SCHEDULE CPVC	SOLVENT WELD	1/2" ARMAFLEX	SCHEDULE 40 PVC	SOLVENT WELD	1/2" ARMAFLEX
DOMESTIC HOT WATER	SCHEDULE CPVC	SOLVENT WELD	1/2" ARMAFLEX	SCHEDULE CPVC	SOLVENT WELD	1/2" ARMAFLEX	SCHEDULE 40 PVC	SOLVENT WELD	

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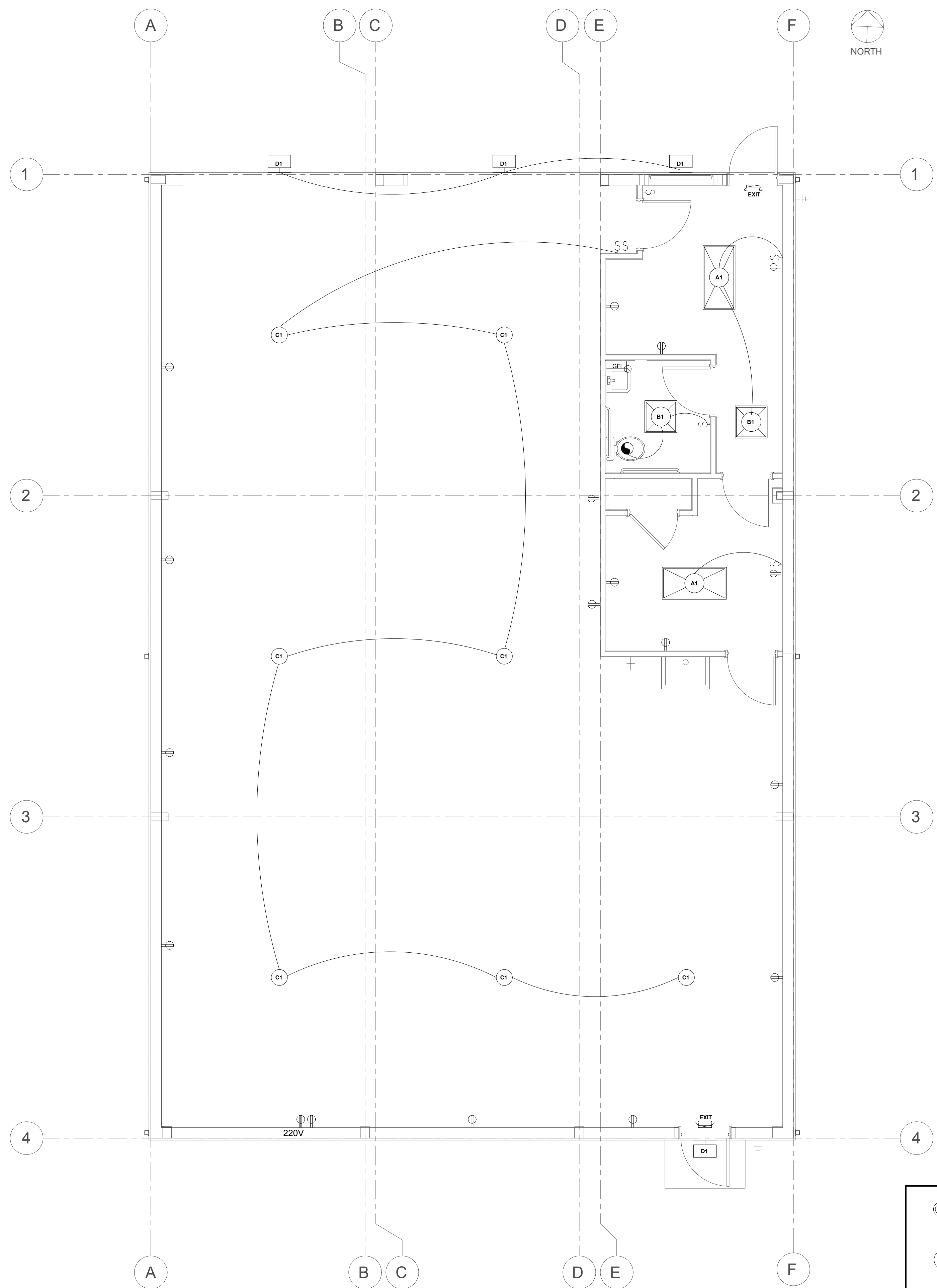
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**PANEL SCHEDULE "A"**  
 VOLTAGE: 120/240 V  
 PHASE: 1  
 NO. OF WIRES: 3  
 BUSS: 200 ML  
 MAIN: ML  
 KAIC: 10  
 MOUNT: SFC NEMA 1

CK NO.	TRIP	WIRE SIZE	NO. OF POLES	KVA	DESCRIPTION		KVA	DESCRIPTION	KVA	NO. OF POLES	TRIP	CK NO.	
					A	B							
1	20	12	1	0.384	LIGHTS	1.284		RECEPTACLES	1.08	1	12	20	2
3	20	12	1	0.368	LIGHTS	1.088		RECEPTACLES	.90	1	12	20	4
5	20	12	1	0.529	EXHAUST FAN	1.429	0.442	EXT. LIGHT	0.25	1	12	20	6
7	20	12	1	0.304	SUPPLY FAN	1.504		SIGN	1.20	1	12	20	8
9	20	12	1	1.50	WATER HEATER	1.50	1.00	RECEPTACLES	.90	1	12	20	10
11	20	12	1	1.50	WATER HEATER	1.50	1.00	RECEPTACLES	.90	1	12	20	12
13	20	12	1	1.00	RECEPTACLES	1.00		RECEPTACLES	1.00	1	12	20	14
15	20	12	1	1.00	RECEPTACLES	1.00		RECEPTACLES	1.00	1	12	20	16
17	20	12	1	1.00	RECEPTACLES	1.00		220v COMPRES.	1.00	1	12	20	18
19												20	
21												22	
23												24	

**PANEL LOAD SUMMARY**  
 PHASE - A 4.213 KVA  
 PHASE - B 5.034 KVA  
 9.247 KVA  
 LIGHTING @ 1.25% X 3.0 = 6.84 KVA  
 OUTLETS @100% = 9 X 180 = 1.620 KVA  
 EQUIPMENT 100% = 3.500 KVA  
 9.247 KVA x 1,000 = 9,247 watts /. 240 volts = 38.52 amp.

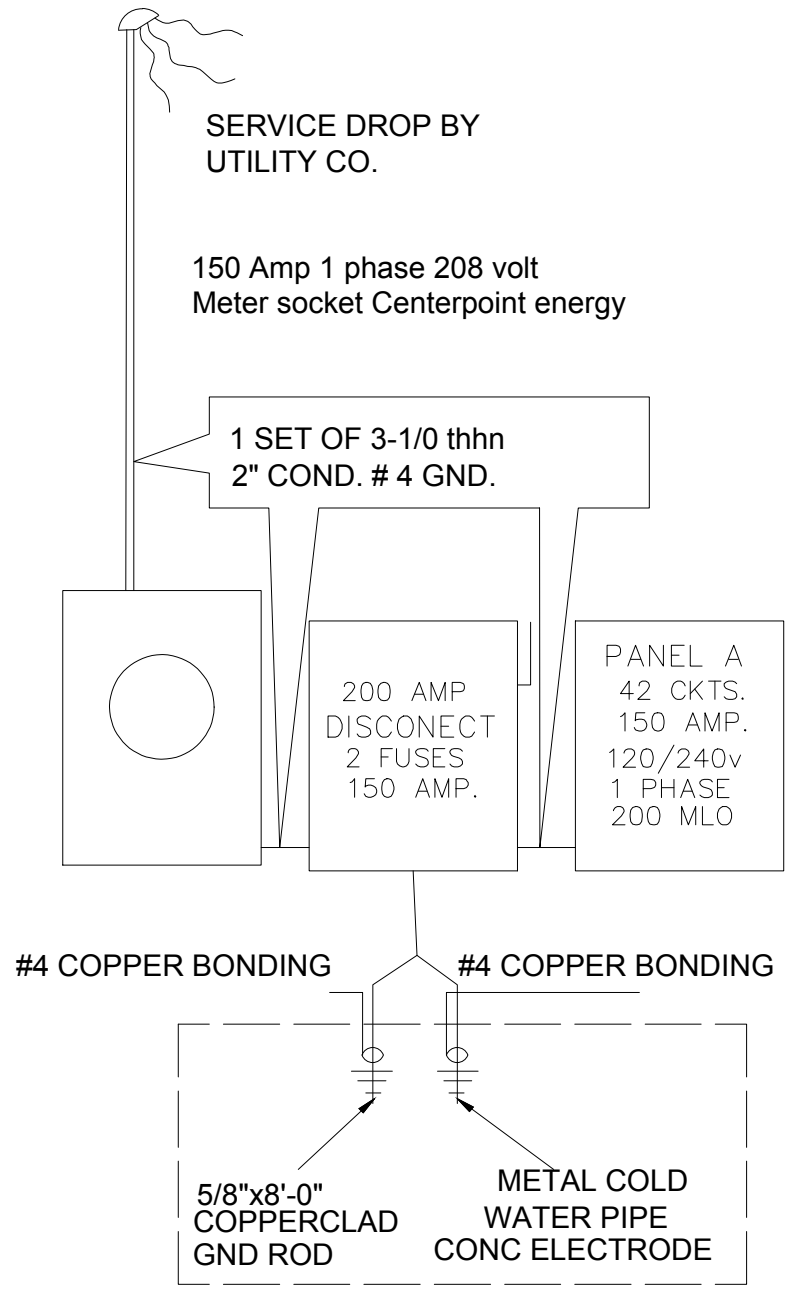
**ELECTRICAL LOAD ANALYSIS**  
 PROJECT: WAREHOUSE OFFICE SERVICE VOLTAGE: 120/240 SERVICE RATING: 200 GROSS AREA: 3,000 SQ.FT.

LOAD DESCRIPTION	CODE LOAD KVA	CONNECTED LOAD KVA	DEMAND FACTOR %	DESIGN LOAD (KVA)	REMARKS NEC
LIGHTS 3VA X 1,000 SQ.FT.	6.84	6.84	125	6.92	220.3A, 220.12
SIGN		1.2	125	1.5	220.3B6, 220.11
RECEPTACLES (9@180VA)		1.62	10 KV +50%	1.62	220.3B9, 220.3B11, 220.13
WATER HEATER		1.5	150	1.5	220.15
EQUIPMENT LOAD		2.00		2.00	
TOTAL				13.54	
SERVICE					
SPARE					

**SYMBOL LEGEND**

<ul style="list-style-type: none"> <li>CEILING MOUNTED INCANDESCENT LIGHT FIXTURE</li> <li>WALL MOUNTED INCANDESCENT LIGHT FIXTURE</li> <li>RECESSED INCANDESCENT DOWN LIGHT</li> <li>TIME SWITCH CONTROL</li> <li>EXTERIOR FLOOD LIGHTS 150W</li> <li>TEL TELEPHONE JACK</li> <li>OCCUPANCY SENSOR SWITCH</li> <li>SINGLE POLE SWITCH</li> <li>THREE WAY SWITCH</li> <li>PANEL BOX</li> <li>CEILING MOUNTED EXHAUST FAN</li> <li>SMOKE DETECTOR 110 VOLT HARD-WIRED IN SERIES PER R314.3, 4, 5 &amp; 315.1, 2 W/ BATTERY BACK UP.</li> <li>12" X 48" FLUORESCENT LIGHT 2 LAMP, 32W/TB SERIES</li> <li>C/M/D CARBON MONOXIDE DETECTOR</li> </ul>	<ul style="list-style-type: none"> <li>Bathroom Fixture</li> <li>DUPLEX RECEPTACLE OUTLET - 110 VOLT</li> <li>COUNTERTOP DUPLEX RECEPTACLE OUTLET 110 VOLTS</li> <li>SPRIT</li> <li>SPRIT W/ROD DUPLEX</li> <li>CEILING DUPLEX</li> <li>FLOOR DUPLEX</li> <li>GFI</li> <li>GROUND FAULT CIRCUIT INTERRUPTER</li> <li>C/T/GFI</li> <li>COUNTERTOP DUPLEX/ GROUND FAULT CIRCUIT INTERRUPTER</li> <li>WP/GFI</li> <li>WEATHERPROOF/ GROUND FAULT CIRCUIT INTERRUPTER</li> <li>DED/GFI</li> <li>DEDICATED GFI</li> <li>220 VOLT OUTLET</li> <li>PHONE OUTLET</li> <li>TV OUTLET</li> <li>HIDE OUT PLUG</li> <li>THERMOSTAT</li> <li>CEILING LIGHT</li> <li>FRANG. CEILING HANGING LIGHT</li> <li>RECESSED CEILING LIGHT</li> <li>VENT</li> </ul>
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**SHORT CIRCUIT CALCULATIONS.**  
 1 SEC= 9.24 KVA X 1000/V SEC  
 1 SEC= (9.24 X 1000) / 220  
 1 SEC= 42.0 AMPS  
 SHORT CIRCUIT. (IMPEDANCE= 0.05)  
 =42.00/05  
 840.00 AMPS



In lieu of the maximum available fault current marking as required by 110.24, a permanently affixed label shall be applied with the fault current at the time of installation and calculation. The label shall be 2" x 3" in size and shall be blue lettering on a contrasting background. This label shall also include the date of the calculation.

<ul style="list-style-type: none"> <li>RECESSED INCANDESCENT DOWN LIGHT</li> <li>CEILING MOUNTED EXHAUST FAN</li> <li>CARBON MONOXIDE DETECTOR 110 VOLT HARD-WIRED IN SERIES PER R314.3, 4, 5 &amp; 315.1, 2 W/ BATTERY BACK UP.</li> <li>CEILING MOUNTED EXHAUST FAN WITH LIGHT</li> <li>OCCUPANCY SENSOR SWITCH</li> </ul>	<ul style="list-style-type: none"> <li>DUPLEX RECEPTACLE OUTLET - 110 VOLT</li> <li>220V 220 VOLT RECEPTACLE OUTLET</li> <li>DUPLEX RECEPTACLE OUTLET GROUND FAULT INTERRUPTED</li> <li>DUPLEX RECEPTACLE OUTLET WEATHERPROOF DEVICE</li> <li>CEILING MOUNTED INCANDESCENT LIGHT FIXTURE</li> <li>WALL MOUNTED INCANDESCENT LIGHT FIXTURE</li> </ul>	<ul style="list-style-type: none"> <li>EMERGENCY LIGHTS W/ 1 HR. BATTERY BACK UP</li> <li>EMERGENCY LIGHTS W/ 1 HR. BATTERY BACK UP</li> <li>24" X 48" FLUORESCENT LIGHT 4 LAMP, 32W/TB SERIES</li> <li>12" X 48" LEED LIGHT 2 LAMP 32W</li> <li>BOX PANEL</li> </ul>	<ul style="list-style-type: none"> <li>EXTERIOR FLOOD LIGHTS 250W</li> <li>CEILING MOUNTED AIMABLE INCANDESCENT LIGHT FIXTURE</li> <li>TELEPHONE JACK</li> <li>THREE WAY SWITCH</li> <li>SINGLE POLE SWITCH</li> <li>1 PHASE SUPPLY / EXHAUST FAN. MOD.</li> </ul>
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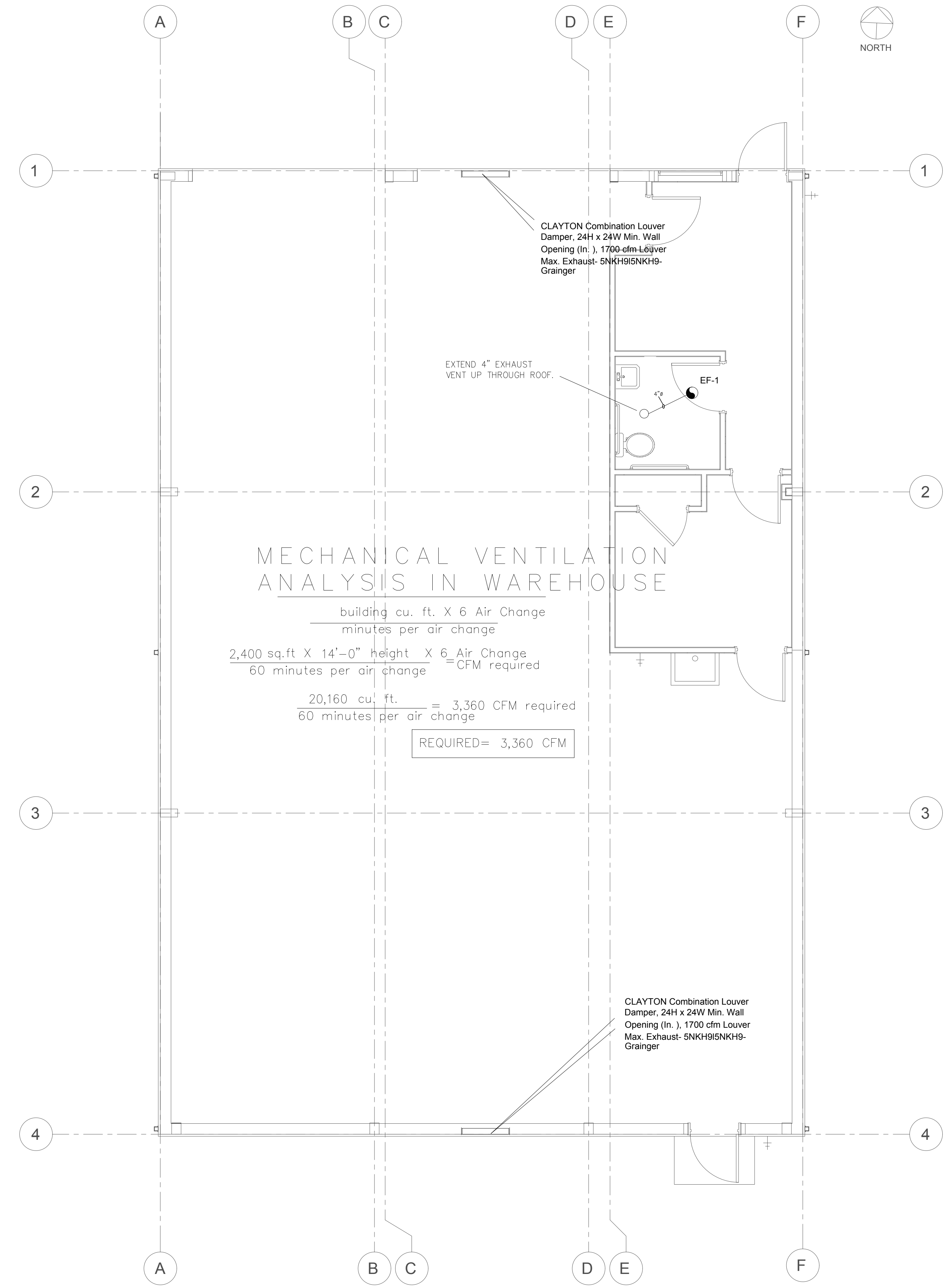
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**MECHANICAL VENTILATION ANALYSIS IN WAREHOUSE**

$$\frac{\text{building cu. ft.} \times 6 \text{ Air Change}}{\text{minutes per air change}}$$

$$\frac{2,400 \text{ sq.ft} \times 14'-0" \text{ height} \times 6 \text{ Air Change}}{60 \text{ minutes per air change}} = \text{CFM required}$$

$$\frac{20,160 \text{ cu. ft.}}{60 \text{ minutes per air change}} = 3,360 \text{ CFM required}$$

**REQUIRED= 3,360 CFM**

FAN SCHEDULE								
EQUIPMENT NO.	SERVICE	LOCATION	CFM	STATIC PRESSURE (IN WC)	ELECTRICAL V/ø/Hz	ELECTRICAL HP	MANUFACTURE AND MODEL	NOTES
EF-1	RESTROOMS	CEILING	100	0.25	120/ 1/ 60	50W	DAYTON 5AE69 OR EQUAL	1,2,3,4

NOTES:  
 1. PROVIDE MOTORIZED BACK-DRAFT DAMPER.  
 2. INTERLOCK FAN WITH OCCUPANCY SENSOR.  
 3. PROVIDE MODEL SPECIFIED OR APPROVED EQUAL.  
 4. ENERGY STAR QUALIFIED.  
 5. PROVIDE MOTOR SWITCH.  
 6. PROVIDE SCREEN FILTER.  
 7. PROVIDE PREFABRICATED ROOF CURB. TO MATCH EQUIPMENT.  
 8. PROVIDE GEASE BOX.  
 9. COORDINATE CFM OF FAN WITH EXHAUST HOOD SELECTION.  
 10. PER IMC 503.3.12.1, FAN DISCHARGE OPENING TO TERMINATE NOT LESS THAN 40" ABOVE ROOF SURFACE.  
 11. SIZE PER MANUFACTURE'S RECOMMENDATION.  
 12. PROVIDE WITH INTEGRAL DISCONNECT.