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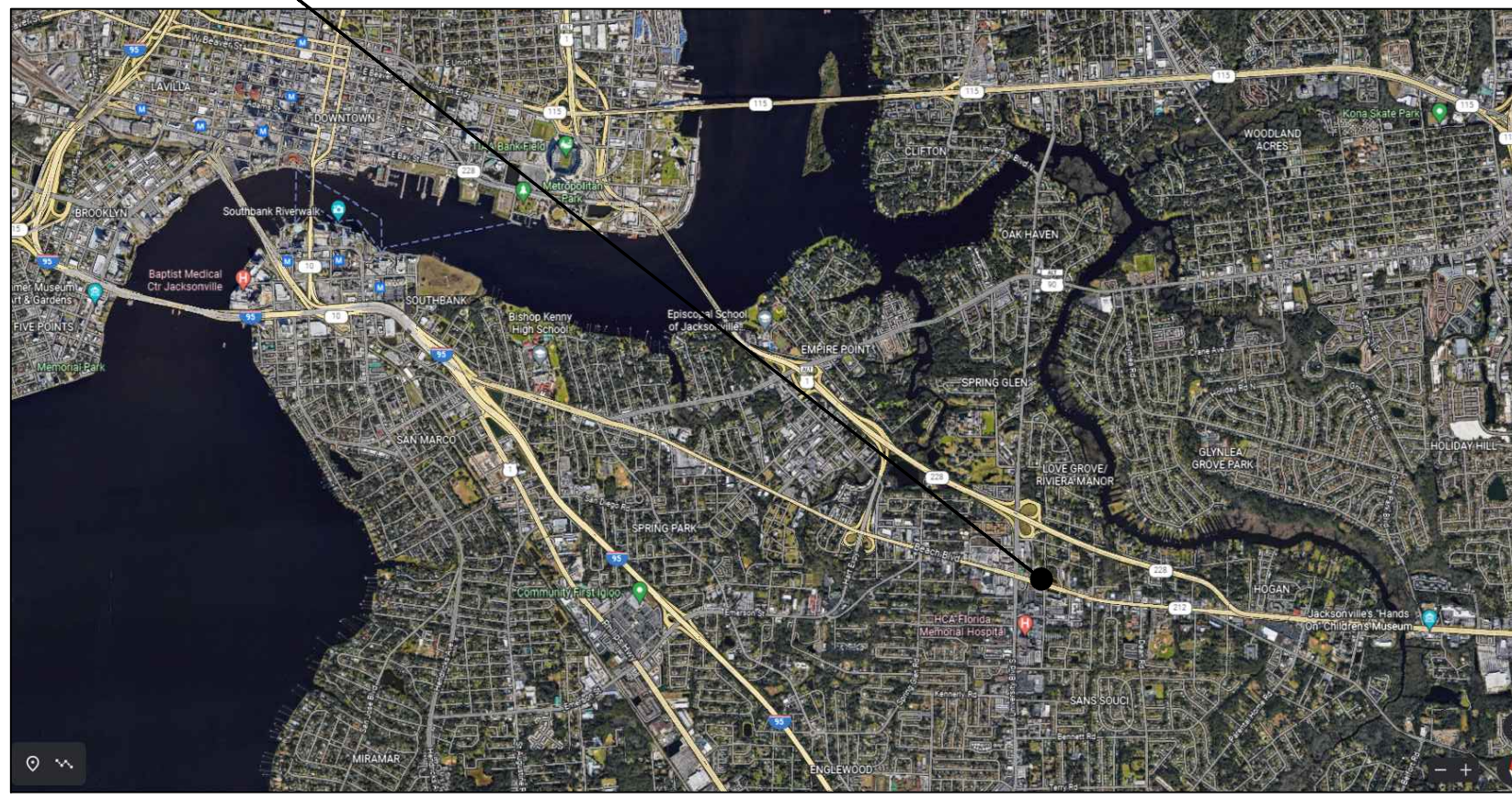
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PROJECT SITE



STREET MAP

SCALE: N.T.S.

DESIGN CRITERIA:

DESIGN CODE: 2020 FLORIDA BUILDING CODE (FBC) 7TH EDITION
 BASIC WIND SPEED: 126 MPH
 WIND RISK CATEGORIES: CATEGORY II BUILDING
 WIND EXPOSURE: C
 INTERNAL PRESSURE COEFFICIENT: +/- 0.18 (ENCLOSED BUILDING)
 MAXIMUM DESIGN WIND PRESSURES (PSF: LRFD):

OPENING SIZE (SF)	EDGE ZONES (4'-0" FROM OUTSIDE CORNERS)	INTERIOR ZONE
0-20	+33 and -43	+33 and -35
21-50	+31 and -41	+31 and -34
51-100	+29 and -37	+29 and -32
>100	+28 and -34	+28 and -31

DESIGN LIVE LOADS:
 ROOF: 20 PSF (REDUCIBLE)

PLUMBING FIXTURE COUNT PER TABLE 403.1 FLORIDA PLUMBING CODE

MERCANTILE (M)	
WATER CLOSETS	1 WC PER 500 MALE/FEMALE
LAVATORIES	1 LAV PER 750 MALE/FEMALE
DRINKING FOUNTAINS	1 LAV PER 1000
SERVICE SINK	1 SERVICE SINK
	TOTAL OCCUPANT LOAD MERCANTILE - 26 13 MALES 13 FEMALES
	2 REQUIRED WATERCLOSET 2 REQUIRED LAVATORIES 1 REQUIRED DRINKING FOUNTAIN (BY TENANT)

PLUMBING FIXTURE COUNT PER TABLE 403.1 FLORIDA PLUMBING CODE

BUSINESS (B)	
WATER CLOSETS	1 WC PER 25 MALE/FEMALE FOR FIRST 50 AND 1 PER 50 FOR REMAINDER EXCEEDING 50
LAVATORIES	1 LAV PER 40 MALE/FEMALE FOR FIRST 80 AND 1 PER 80 FOR REMAINDER EXCEEDING 80
DRINKING FOUNTAINS	1 LAV PER 100
SERVICE SINK	1 SERVICE SINK
	TOTAL OCCUPANT LOAD BUSINESS - 11 6 MALES 6 FEMALES
	1 REQUIRED WATERCLOSET 1 REQUIRED LAVATORIES

CODE REQUIREMENTS

THE PROJECT IS A BUILDING REMODEL FOR A MERCANTILE BUILDING. THE BUILDING IS CONSTRUCTED OUT OF CMU WALLS, WOODEN TRUSSES AND CONCRETE SLAB ON GRADE.

THE BUILDING WILL NOT BE EQUIPPED WITH AN AUTOMATIC SPRINKLER SYSTEM.

FLORIDA BUILDING CODE 7th EDITION (2020)

FLORIDA FIRE PREVENTION CODE 7TH EDITION (ENCOMPASSING 2018 ON NFPA 1 & NFPA 101)

OCCUPANCY CLASSIFICATION: MERCANTILE (M) FBC 309.1; NFPA 3.3.182, 3.3.196.9 AND CHAPTER 36 (NEW MERCANTILE OCCUPANCIES).

OCCUPANCY CLASSIFICATION: BUSINESS (B) FBC 304.1; NFPA 3.3.40, 3.3.196.3 AND CHAPTER 38 (NEW BUSINESS OCCUPANCIES).

CONSTRUCTION: FBC SECTION 602.2 - TYPE VB, UNPROTECTED, NON SPRINKLERED

ALLOWABLE HEIGHTS AND BUILDING AREAS: TABLE 504 - TYPE VB

MERCANTILE(M):	BUSINESS (B):
MAX. HEIGHT (NS) - 40'-0"	MAX. HEIGHT (NS) - 40'-0"
MAX. STORIES (NS) - 1	MAX. STORIES (NS) - 2
ALLOWABLE AREA (NS) - 9,000 SF	ALLOWABLE AREA (NS) - 9,000 SF

TOTAL BUILDING AREA: 1,885 SF

TYPE VB - TABLE FBC 601

BUILDING ELEMENT	TYPE VB
STRUCTURAL FRAME INCLUDING COLUMNS, GIRDERS, TRUSSES	0
BEARING WALLS EXTERIOR INTERIOR	0
NONBEARING WALLS AND PARTITIONS EXTERIOR	0
NONBEARING WALLS AND PARTITIONS INTERIOR	0
FLOOR CONSTRUCTION INCLUDING SUPPORTING BEAMS AND JOISTS	0
ROOF CONSTRUCTION INCLUDING SUPPORTING BEAMS AND JOISTS	0

TYPE VB - TABLE FBC 602

FIRE SEPARATION DISTANCE (FT)	TYPE OF CONSTRUCTION	GROUP M	GROUP B
< 5	OTHERS	2	1
≥ 5 < 10	OTHERS	1	1
≥ 10 < 30	VB	0	0
≥ 30	ALL	0	0

OCCUPANT LOAD:

MINIMUM OCCUPANT LOAD - FBC TABLE 1004.5 (NFPA TABLE 7.3.1.2, 36.1.7 & 38.1.7):

MERCANTILE: 60 GROSS SF PER PERSON (FBC TABLE 1004.5) OR 30 GROSS SF PER PERSON (NFPA TABLE 7.3.1.2 & 36.1.7)

BUSINESS: 150 GROSS SF PER PERSON

MERCANTILE SEE SHEET G-2 FOR OCCUPANT LOAD
 BUSINESS SEE SHEET G-2 FOR OCCUPANT LOAD

INTERIOR FINISHES:

MINIMUM AS REQUIRED BY FBC TABLE 803.11 (NON-SPRINKLERED):

OCCUPANCY	VERTICAL EXITS	EXIT ACCESS CORRIDORS	ROOMS & ENCLOSED SPACES
MERCANTILE	A	B	C
BUSINESS	A	B	C

AS REQUIRED BY FFPC TABLE A 10.2.2:

OCCUPANCY	VERTICAL EXITS	EXIT ACCESS	OTHER SPACES
MERCANTILE	A OR B I OR II	A OR B	A OR B NA
BUSINESS	A OR B	A OR B	A, B OR C

CLASS A INTERIOR WALL AND CEILING FINISH - FLAME SPREAD 0-25; SMOKE DEVELOPED 0-450
 CLASS B INTERIOR WALL AND CEILING FINISH - FLAME SPREAD 26-75; SMOKE DEVELOPED 0-450
 CLASS C INTERIOR WALL AND CEILING FINISH - FLAME SPREAD 76-200; SMOKE DEVELOPED 0-450

MEANS OF EGRESS:

MAXIMUM TRAVEL DISTANCE, DEAD END LENGTH, EXIT AND MEANS OF EGRESS WIDTH:

FBC TABLES 1017.2 & 1020.4, & TABLE 1020.2:

MAXIMUM TRAVEL DISTANCE TO EXIT (NON-SPRINKLERED): MERCANTILE - 200 FT

NFPA 101 - 150 FT (MERCANTILE FFPC A.7.6)

MAXIMUM TRAVEL DISTANCE TO EXIT (NON-SPRINKLERED): BUSINESS - 200 FT

NFPA 101 - 200 FT (BUSINESS FFPC A.7.6)

MAXIMUM DEAD END CORRIDOR LENGTH (NON-SPRINKLERED): 20 FT (FBC 1020.4)

NFPA 101 - 20 FT (MERCANTILE FFPC A.7.6)

MAXIMUM DEAD END CORRIDOR LENGTH (NON-SPRINKLERED): 20 FT (FBC 1020.4)

NFPA 101 - 20 FT (BUSINESS FFPC A.7.6)

EGRESS WIDTH PER PERSON SERVED:

OTHER EGRESS COMPONENTS (CORRIDORS, RAMPS, ETC.) = 0.20" (FBC 10005.3.2)

(0.20" x 52 OCCUPANTS = 10.4" STAIR WIDTH REQUIRED)

MINIMUM CORRIDOR AISLE WIDTH: 44"

MINIMUM CLEAR WIDTH OPENING OF EXIT DOORS: 32" (32"/0.2" PER PERSON = 160 PERSONS)

DOORS SHALL SWING IN THE DIRECTION OF EGRESS EXCEPT WHEN SERVING AN OCCUPANT LOAD OF LESS THAN 50 (FBC 1010.1.2.1)

COMMON PATH OF TRAVEL (NON-SPRINKLERED): 75 FT (FBC 1006.2.1);

NFPA 101 - 75 FT (MERCANTILE) FFPC A.7.6

COMMON PATH OF TRAVEL (NON-SPRINKLERED): 75 FT (FBC 1006.2.1);

NFPA 101 - 75 FT (BUSINESS) FFPC A.7.6

CORRIDOR FIRE-RESISTANCE RATING (FBC TABLE 1020.1): GREATER THAN 30 OCCUPANTS w/o SPRINKLER SYSTEM - 1

0 (MERCANTILE - FFPC 36.3.6.1 EXCEPTION 1)

1 (BUSINESS - FFPC 36.3.6.1)

← 160P 32" INDICATES EXIT OR EXIT ACCESS, NUMBER OF PERSONS (P) DISCHARGING AT EXIT OR EXIT ACCESS, AND EGRESS CLEAR WIDTH (AT DOORS).

— SAMPLE EGRESS TRAVEL PATH AND DISTANCE

— ONE HOUR FIRE RATED WALL (UL DESIGN U419 UON)

⊕ FIRE EXTINGUISHER (UL RATING 2A-40B-C) 5 LB MULTIPURPOSE DRY CHEMICAL

EQUAL TO BADGER MODEL #5MB-6H (A KIDDE COMPANY)

FIRE EXTINGUISHERS SHALL BE CERTIFIED BY A LICENSE FIRE PROTECTION COMPANY

CLASS A FIRES (ORDINARY COMBUSTIBLE MATERIALS SUCH AS WOOD, CLOTH, PAPER RUBBER AND MANY PLASTICS)

CLASS B FIRES (LIQUIDS, TARS, OILS, GASES)

CLASS C FIRES (ELECTRICAL EQUIPMENT)

MAXIMUM FLOOR AREA PER UNIT OF A = 1,500 SF

MAXIMUM FLOOR AREA PER 2A UNIT = 3,000 SF

MAXIMUM TRAVEL DISTANCE TO AN EXTINGUISHER = 75 FT

MAXIMUM FLOOR AREA PER EXTINGUISHER = 11,250 SF

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 BUILDING**

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 JACKSONVILLE, FLORIDA 32216

SHEET TITLE: CODE DATA

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	DATE	

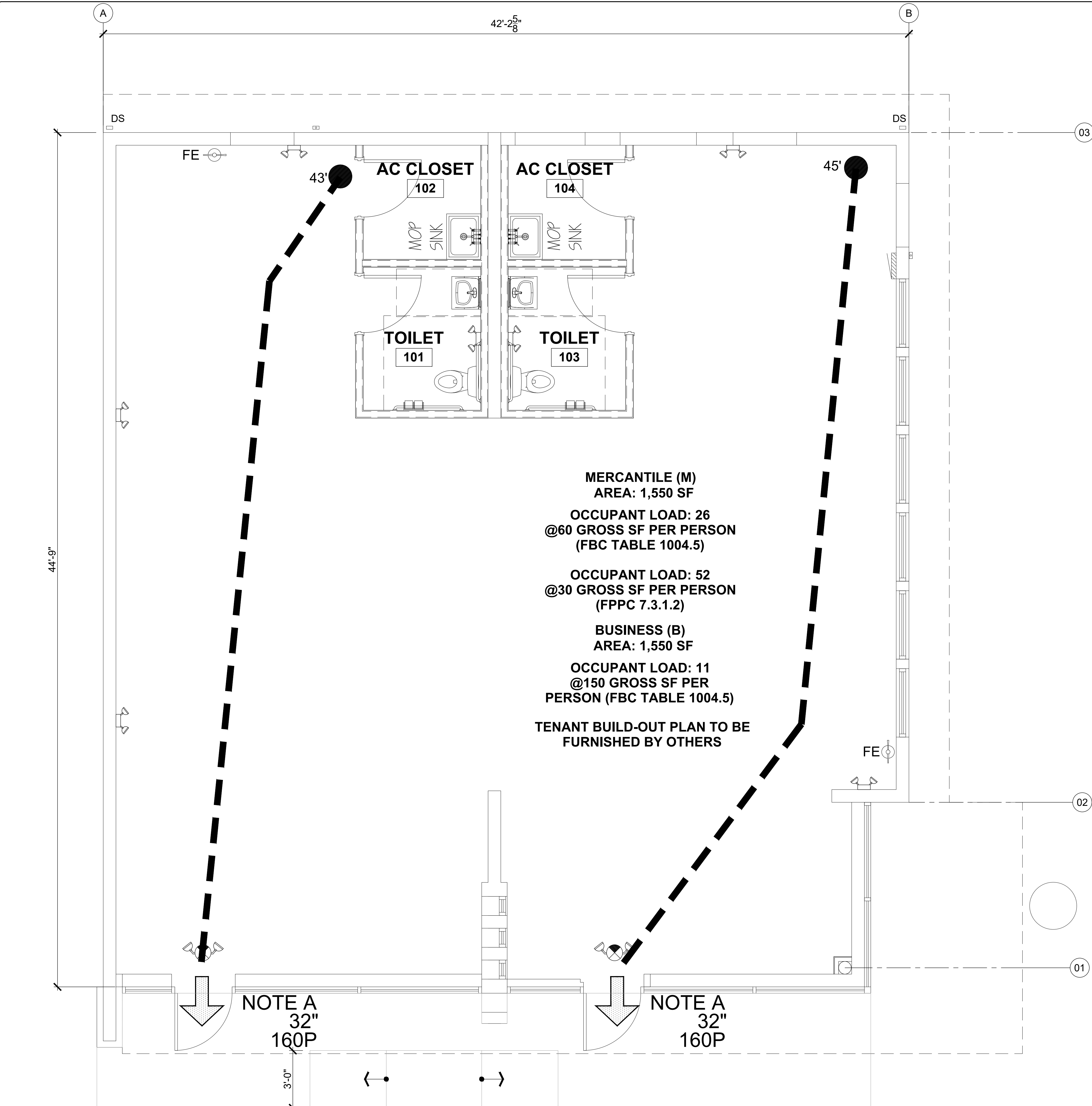
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SHEET

G-1



MERCANTILE (M)
AREA: 1,550 SF
OCCUPANT LOAD: 26
@60 GROSS SF PER PERSON
(FBC TABLE 1004.5)

OCCUPANT LOAD: 52
@30 GROSS SF PER PERSON
(FPPC 7.3.1.2)

BUSINESS (B)
AREA: 1,550 SF
OCCUPANT LOAD: 11
@150 GROSS SF PER
PERSON (FBC TABLE 1004.5)

TENANT BUILD-OUT PLAN TO BE
FURNISHED BY OTHERS

NOTE: SITE VISIT REQUIRED BY ALL BIDDERS

BIDDERS ARE REQUIRED TO VISIT THE SITE AND BECOME FAMILIAR WITH EXISTING CONDITIONS AND SATISFY THEMSELVES AS TO THE NATURE AND SCOPE OF WORK PRIOR TO SUBMISSION OF BID. THE SUBMISSION OF A BID WILL BE EVIDENCE THAT SUCH AN EXAMINATION HAS BEEN MADE. LATER CLAIMS FOR LABOR, EQUIPMENT, OR MATERIALS REQUIRED, OR FOR DIFFICULTIES ENCOUNTERED WHICH COULD HAVE BEEN FORESEEN HAD AN EXAMINATION BEEN MADE, WILL NOT BE ACCEPTED. COORDINATE WITH OTHER TRADES FOR ITEMS IN THEIR SCOPE OF WORK WHICH WOULD REQUIRE ADDITIONAL WORK AND ARE NOT INDICATED ON THESE PLANS.

ANY DISCREPANCY BETWEEN THESE DRAWINGS AND EXISTING CONDITIONS TO BE BROUGHT TO ARCHITECT'S & ENGINEERS' ATTENTION.

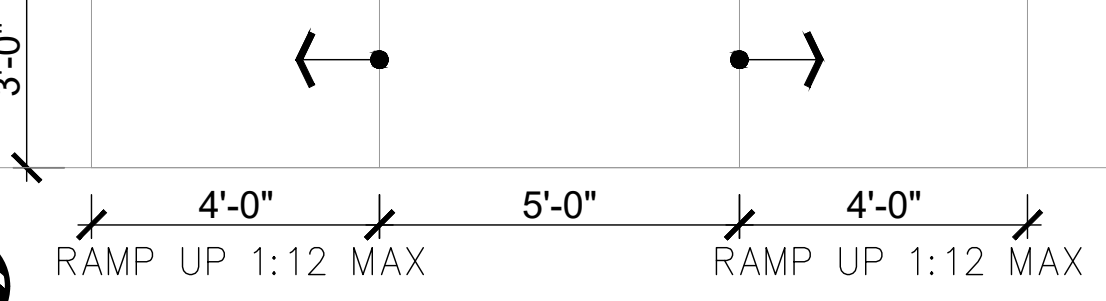
DOORS NOT REQUIRING SPECIAL TOOLS
 LOCKS ON EXIT DOORS SHALL NOT REQUIRE
 THE USE OF A KEY, A TOOL
 OR SPECIAL KNOWLEDGE OR EFFORT
 FOR OPERATION FOR OPERATION FROM
 EGRESS SIDE UNLESS THEY MEET THE
 REQUIREMENTS OF NFPA 101 7.1.2.5.

NOTE A:
 EXIT DOOR TACTILE
 SIGNAGE READING:
EXIT
 SIGNAGE SHALL
 COMPLY w/ANSI/CABO
 A117.1; MOUNT 60" AFF
 TO CENTERLINE OF SIGN

PROVIDE MIN 6" HIGH LETTERS
 ON THE TENANT'S SUITE. LETTERS
 MUST BE VISIBLE & LEGIBLE FROM
 THE STREET THEREFORE THE ADDRESS NUMBER
 MAY NEED TO BE LARGER THAN THE MINIMUM
 OF 6" - COORD w/ FIRE MARSHAL

NOTE A
 32"
 160P

NOTE A
 32"
 160P



LIFE SAFETY PLAN
 SCALE: 1/4"=1'0"

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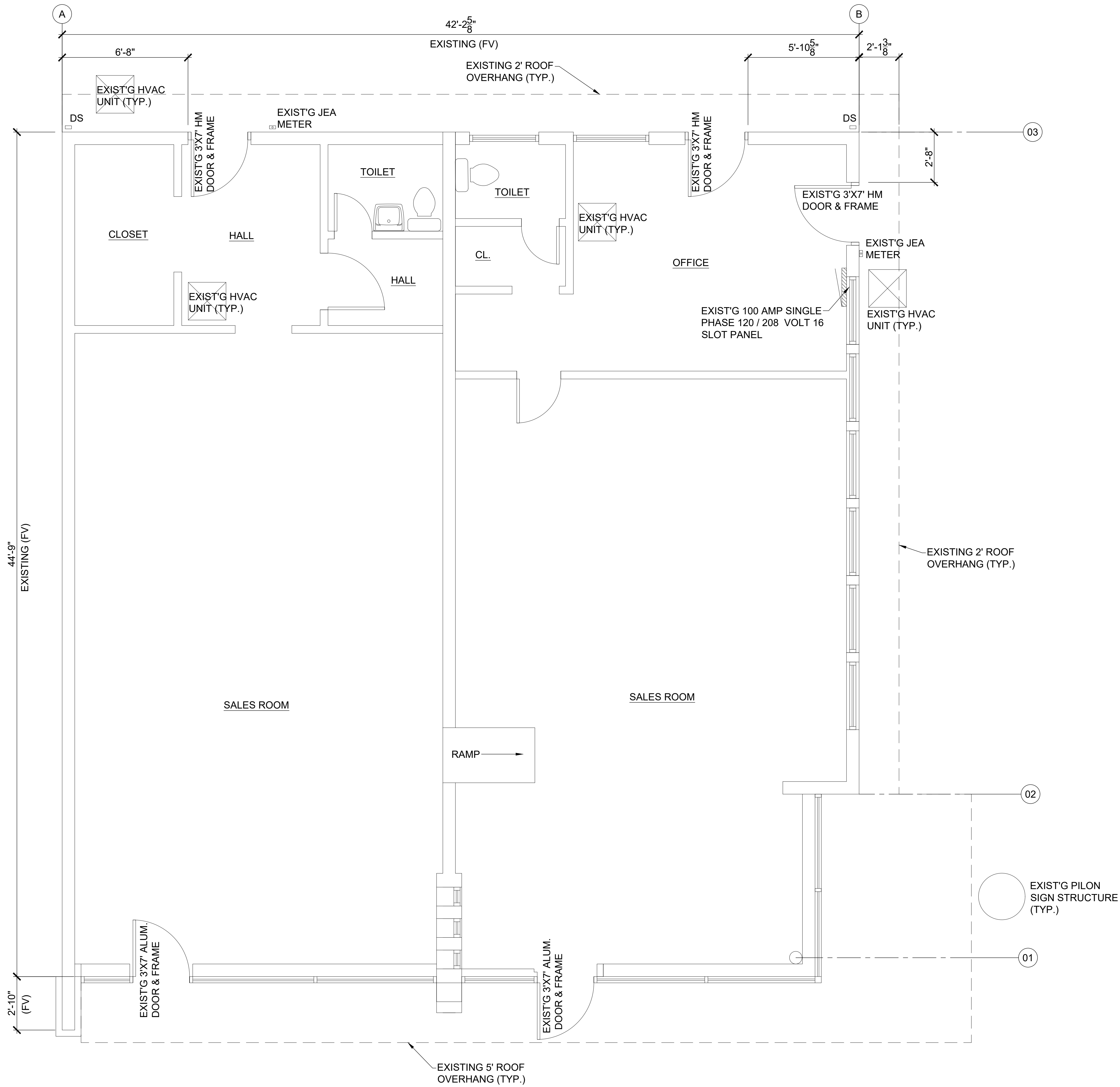
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G-2

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EXISTING FLOOR PLAN

SCALE: 3/8"=1'0"



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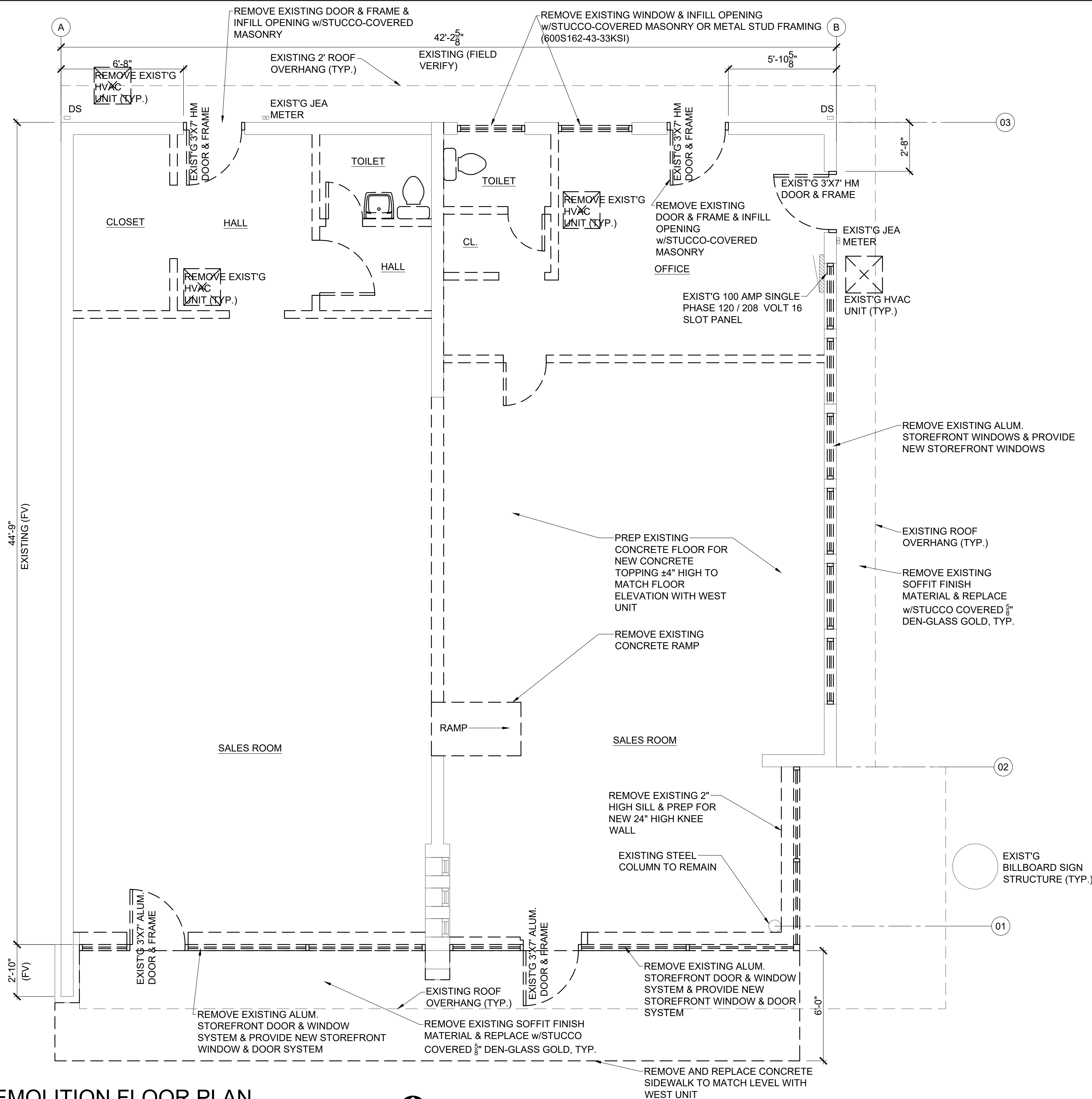
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A-1

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GENERAL NOTES:

1. FIELD VERIFY DIMENSIONS AND EXISTING CONDITIONS BEFORE STARTING WORK. REPORT ANY DISCREPANCIES TO THE ARCHITECT OR ENGINEER.
2. PATCH AND REPAIR ALL EXISTING MATERIALS AND FINISHES AT WALLS, FLOORS AND CEILINGS WHERE AFFECTED OR DAMAGED BY NEW CONSTRUCTION OR REMOVAL OF EXISTING CONSTRUCTION. MATERIALS AND FINISHES SHALL MATCH EXISTING CONSTRUCTION AND FINISHES. ALL OPENINGS IN FLOORS, WALLS AND CEILINGS RESULTING FROM DEMOLITION OPERATIONS SHALL BE INFILLED WITH MATERIAL TO MATCH EXISTING CONSTRUCTION AND FINISHES.
3. REMOVE & REPLACE EXISTING ROOF MEMBRANE WITH NEW 60 MIL WHITE TPO OR EQUAL OVER NEW 1/2" DENS-DECK

DEMOLITION NOTES:

1. INDICATES WALLS, DOORS, FIXTURES AND COUNTERS TO BE REMOVED.

DEMOLITION FLOOR PLAN
SCALE: 3/8"=1'0"



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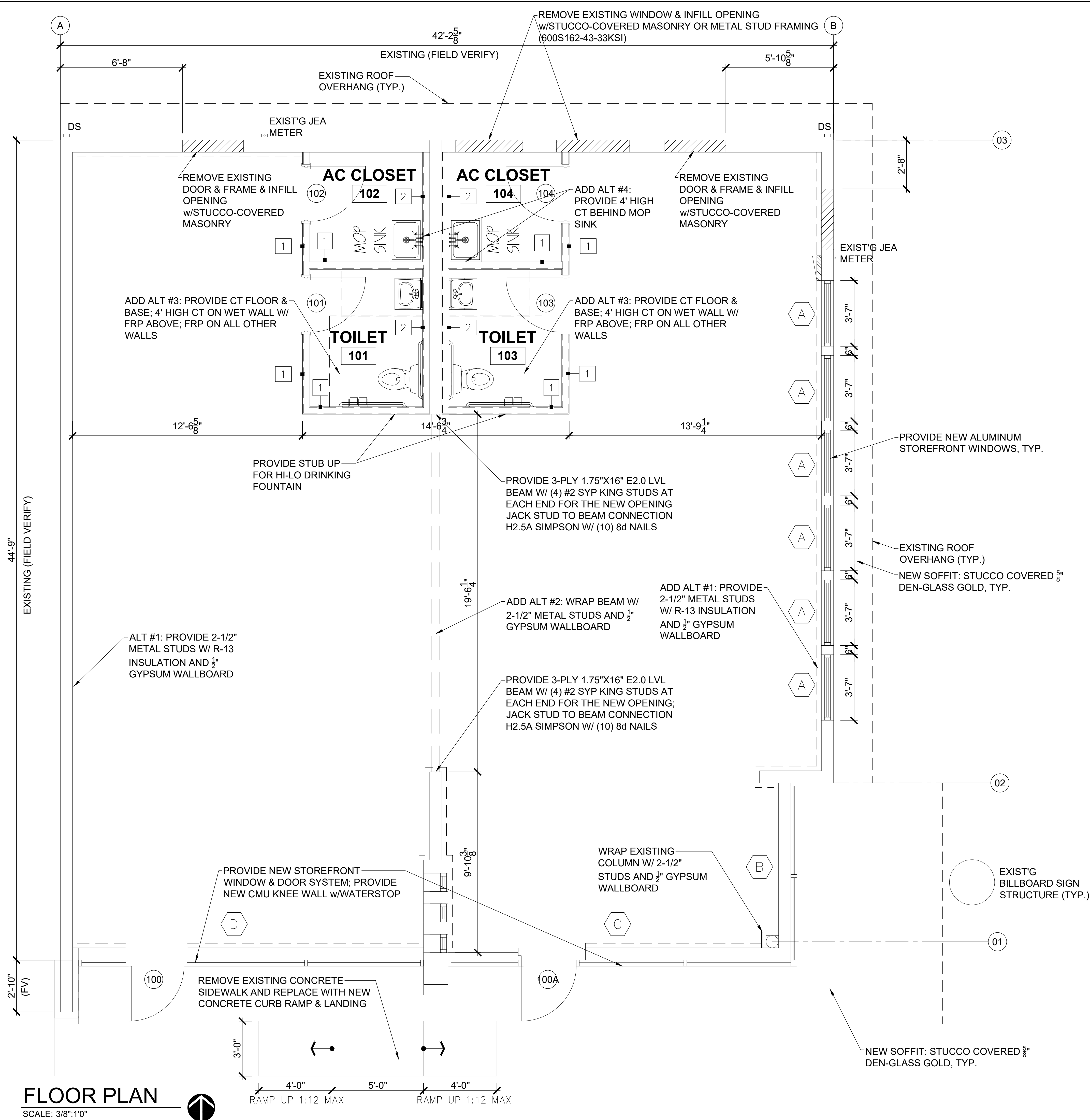
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A-1.1



WALL TYPE SCHEDULE

TYPE	DESCRIPTION	INSUL.	NOTES
1	3-5/8" 20 GA. METAL STUDS @ 16" O.C. WITH ONE LAYER OF 1/2 GYPSUM WALLBOARD ON EACH SIDE; EXTEND TO 6" ABOVE ACOUSTICAL CEILING	R-11	BRACE WALL TO LIMIT DEFLECTION TO L/240 SOUND ATTENUATION BATT
2	3/8" AIR GAP FROM EXISTING CMU, 3-5/8" 20 GA. METAL STUDS @ 16" O.C. WITH ONE LAYER OF 1/2 GYPSUM WALLBOARD ON ROOM SIDE; EXTEND TO 6" ABOVE ADJACENT CEILING	R-11	BRACE WALL TO LIMIT DEFLECTION TO L/240 SOUND ATTENUATION BATT

- NOTES:
- PROVIDE FIREBLOCKING AND DRAFTSTOPPING IN PARTITIONS PER FBC 717. PROVIDE FIREBLOCKING IN CONCEALED WALL SPACES INCLUDING VERTICALLY AT THE CEILING AND FLOOR LEVELS AND HORIZONTALLY AT INTERVALS NOT EXCEEDING 10' (FBC 717.2.2). SEE FBC 717.2.1 FOR FIREBLOCKING MATERIAL OPTIONS.
 - EXPOSED INSULATION MATERIALS INSTALLED SHALL HAVE A FLAME SPREAD RATING OF NOT MORE THAN 25 AND A SMOKE DEVELOPED RATING OF NOT MORE THAN 450 AS DETERMINED IN ACCORDANCE WITH ASTM E 84.
 - CONCEALED INSULATION MATERIALS INSTALLED SHALL HAVE A FLAME SPREAD RATING OF NOT MORE THAN 75 AND A SMOKE DEVELOPED RATING OF NOT MORE THAN 450 AS DETERMINED IN ACCORDANCE WITH ASTM E 84.
 - PROVIDE WATER RESISTANT GYPSUM BOARD AROUND PLUMBING FIXTURES AND WALLS TO RECEIVE CERAMIC TILE EQUAL TO USG'S FIBEROCK'S BRAND AQUA-TOUGH INTERIOR PANELS. GYPSUM WALLBOARD PRODUCTS MUST BE RATED FOR WET LOCATIONS IN ACCORDANCE WITH THE TILE COUNCIL OF NORTH AMERICA (TCNA) HANDBOOK. GREEN BOARD IS NOT APPROVED FOR TOILET ROOM LOCATIONS.
 - PROVIDE WOOD BLOCKING AS REQUIRED TO SUPPORT TOILET ROOM FIXTURES, ACCESSORIES, SHELVES & CABINETS, FIRE EXTINGUISHERS, ETC. WOOD BLOCKING IN FIRE-RATED WALLS SHALL BE FIRE-RATED. COMBUSTIBLE WOOD BLOCKING IN NON FIRE-RATED WALLS IS PERMITTED.
 - PROVIDE R-11 SOUND ATTENUATION BATT AROUND THE TOILET ROOMS.
 - PROVIDE 1x8 WOOD CHAIR RAIL AROUND PERIMETER OF RECEIVING ROOM. PROVIDE BLOCKING AS REQUIRED.
 - PLANS FOR FIRE-PROTECTION SPRINKLER SYSTEM (NOT PROVIDED BY DSAE, INCLUDING SUPPORT DETAILS, SHALL BE REVIEWED AND APPROVED BY THE LOCAL AUTHORITY PRIOR TO INSTALLATION FOR COMPLIANCE WITH THE FLORIDA BUILDING CODE 7TH EDITION (2020) AND NFPA 13 (LATEST EDITION).

INTERIOR CONCRETE SLAB INSTALLATION NOTES:

- #4 x 12" LONG DOWELS @ 36" O.C. W/6" IN THE EXISTING SLAB AND 6" IN THE NEW SLAB - ANCHOR DOWELS INTO EXISTING SLAB, TYP. TRENCHES LESS THAN 12" DO NOT REQUIRE DOWELS. TRENCHES LESS THAN 24" SHALL HAVE DOWELS @ 36" O.C. ON EACH SIDE OF THE TRENCH. THE DOWELS SHALL BE INSTALLED IN A STAGGERED PATTERN OFFSET 18" ON EACH SIDE OF THE TRENCH. TRENCHES GREATER THAN 24" SHALL HAVE DOWELS @ 36" O.C. ON EACH SIDE OF THE TRENCH.
- NEW 4" CONCRETE SLAB ON GRADE (TO MATCH EXISTING; FIELD VERIFY) W/6 x 6 - 1.4 x 1.4 W/WF REINFORCING OVER 10 MIL POLY VAPOR RETARDER, TREATED & COMPACTED SOIL 4,000 PSI, 145 PCF DENSITY, 0.45 MAX W/C RATIO

ROOM FINISH SCHEDULE

ROOM NAME	FLOOR	BASE	WALLS	CEILING	CEILING HEIGHT	REMARKS
OPEN SPACE 100	EXISTING CONCRETE	--	PT	GYP. BD.	10'-0"	
TOILET 101	SC	VB	EP	GYP. BD.	8'-0"	ADD ALT #3: PROVIDE CT FLOOR & BASE W/ 4" HIGH CT ON WET WALL W/ FRP ABOVE
AC CLOSET 102	EXISTING CONCRETE	VB	PT	--	--	
TOILET 103	SC	VB	EP	GYP. BD.	8'-0"	ADD ALT #3: PROVIDE CT FLOOR & BASE W/ 4" HIGH CT ON WET WALL W/ FRP ABOVE
AC CLOSET 104	EXISTING CONCRETE	VB	PT	--	--	

- ACT = ACOUSTICAL CEILING TILE
 CPT = CARPET
 CRT = CERAMIC TILE
 EP = EPOXY PAINT
 FRP = FIBERGLASS REINFORCED PANEL
 PT = PAINT
 QT = QUARRY TILE
 RST = RESILIENT WALL BASE
 SC = SEALED CONCRETE
 S/S = STAINLESS STEEL PANELS
 VCT = VINYL COMPOSITION TILE
- WALLS WITHIN 2'-0" OF SERVICE SINK, URINALS & WATERCLOSETS SHALL HAVE A SMOOTH NONABSORBENT SURFACE TO A HEIGHT OF 4'-0" ABOVE THE FLOOR

GENERAL NOTES:

- SWING & FORCED OPEN DOORS SHALL MEET THE REQUIREMENTS OF NFPA LIFE SAFETY CODE AS FOUND IN THE FLORIDA FIRE PREVENTION CODE 7th EDITION CHAPTER 7.2.1.4 AND THE FLORIDA BUILDING CODE 7th EDITION (2020) 1008.1.2.
- SELF CLOSING DEVICES SHALL BE PROVIDED ON DOORS IN A MEANS OF EGRESS AND SHALL MEET THE REQUIREMENTS OF THE NFPA LIFE SAFETY CODE 101 (2018) CHAPTER 7.2.1.8 AND THE FLORIDA FIRE PREVENTION CODE 7th EDITION.
- THIS BUILDING WILL BE A NONSMOKING FACILITY.
- ALL WORK SHALL BE IN COMPLIANCE WITH THE BUILDING CODES, RECOGNIZED INDUSTRY STANDARDS, CRAFTSMANSHIP STANDARDS IN THE AREA, AND ALL MANUFACTURER'S RECOMMENDATIONS.
- THERE SHALL BE A FLOOR OR LANDING ON EACH SIDE OF A DOOR. SUCH FLOOR OR LANDING SHALL BE AT THE SAME ELEVATION ON EACH SIDE OF THE DOOR. LANDINGS SHALL BE LEVEL EXCEPT FOR EXTERIOR LANDINGS WHICH ARE PERMITTED TO HAVE A SLOPE NOT TO EXCEED 0.25 UNIT VERTICAL IN 12 UNITS HORIZONTAL (2% SLOPE). FBC 1010.1.5
- FIELD VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS PRIOR TO CONSTRUCTION. REPORT ANY AND ALL DISCREPANCIES TO THE ARCHITECT/ENGINEER.
- THE GENERAL CONTRACTOR SHALL PROVIDE FLORIDA PRODUCT APPROVAL NOTICES ON ALL REQUIRED COMPONENTS AND CLADDING.
- CONTRACTOR SHALL PERMANENTLY IDENTIFY ALL FIRE-RESISTANT-RATED WALLS (AND CORRESPONDING FIRE-RESISTANT RATINGS) INCLUDING FIRE BARRIER WALLS, SMOKE BARRIER WALLS, FIRE PARTITIONS, FIRE WALLS, AND SHAFT ENCLOSURES EITHER BY INSTALLING SIGNS OR BY STENCILING IN CONCEALED SPACES THE FOLLOWING: () HOUR FIRE AND SMOKE RATED BARRIER - PROTECT ALL OPENINGS. IDENTIFICATION SHALL BE SPACED NO MORE THAN TWELVE (12) FEET ON CENTER WITH A MINIMUM LETTER SIZE OF TWO (2) INCHES IN HEIGHT ON A CONTRASTING BACKGROUND.
- DO NOT SCALE DRAFTING, REPORT ERRORS IN DIMENSIONING TO ARCHITECT BEFORE PROCEEDING WITH WORK.
- DIMENSIONS NOTED AS "CLEAR" ARE FROM FACE OF GYPSUM WALLBOARD TO GYPSUM WALLBOARD.

GENERAL NOTES - FINISHES

- THE CONTRACTOR SHALL VISIT, BEFORE SUBMITTING PRICES.
- ALL INTERIOR DOOR FRAMES SHALL BE PAINTED.
- ALL INTERIOR PARTITIONS SHALL RECEIVE TWO COATS OF SHERWIN WILLIAMS SEMI-GLOSS PAINT OVER ONE COAT OF PRIMER UNLESS OTHERWISE NOTED.
- ALL HORIZONTAL GYPSUM BOARD SURFACES SHALL BE PRIMED WITH FLAT WHITE FINISH, UNLESS OTHERWISE INDICATED.
- FLOOR TRANSITIONS SHALL OCCUR AT THE CENTERLINE OF DOORS. SUBMIT SAMPLES FOR OWNER'S SELECTION PRIOR TO INSTALLATION.
- CENTER FLOOR TILES IN ROOM, UNLESS OTHERWISE NOTED.
- ALL LEFT OVER PAINT SHALL BE CLEARLY LABELED AND APPROPRIATELY PACKAGED. CONTRACTOR SHALL DELIVER ALL LEFTOVER PAINT AND FINISH MATERIALS TO TENANT FOR STORAGE.
- ALL INTERIOR FINISHES TO BE THE MINIMUM CLASSIFICATION AS LISTED ON THE CODE DATA SHEET.

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 Florida Certificate of Auth No.: 00009393
 Florida License No.: AA26000952

BUILDING REMODEL
ZIMMERMAN
BUILDING
 6125 & 6127 BEACH BOULEVARD
 JACKSONVILLE, FLORIDA 32216

NO.	REVISION	
	DATE	

DRAWN BY: CAS
 CHECKED BY: CAS
 DATE: 12-22-22

SHEET
A-1.2

FLOOR PLAN
 SCALE: 3/8"=1'0"

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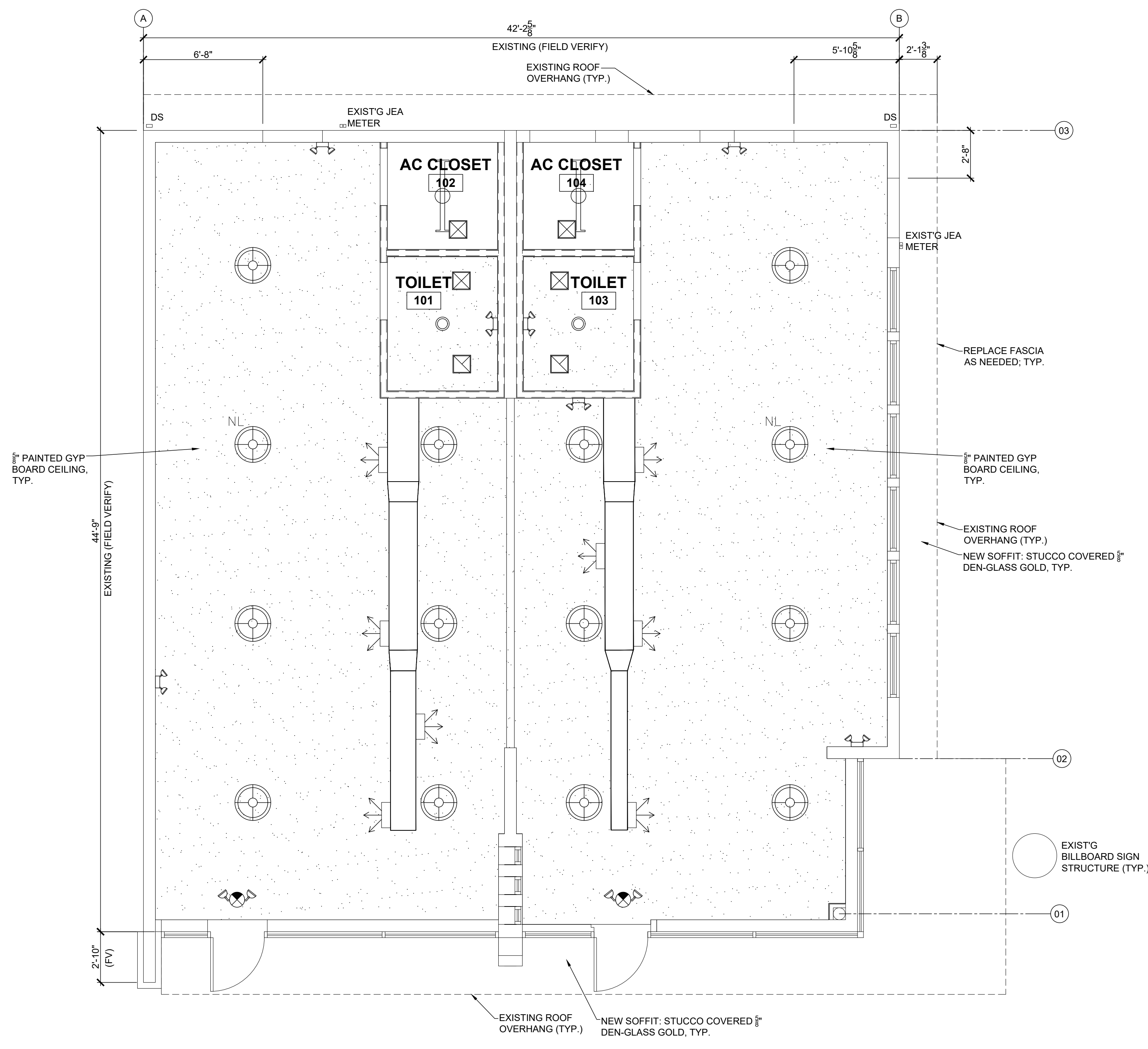
SHEET TITLE: REFLECTED CEILING PLAN	
NO.	DATE / REVISION

DRAWN BY: _____
CHECKED BY: CAS
DATE: 12-22-22

SHEET
A-1.3

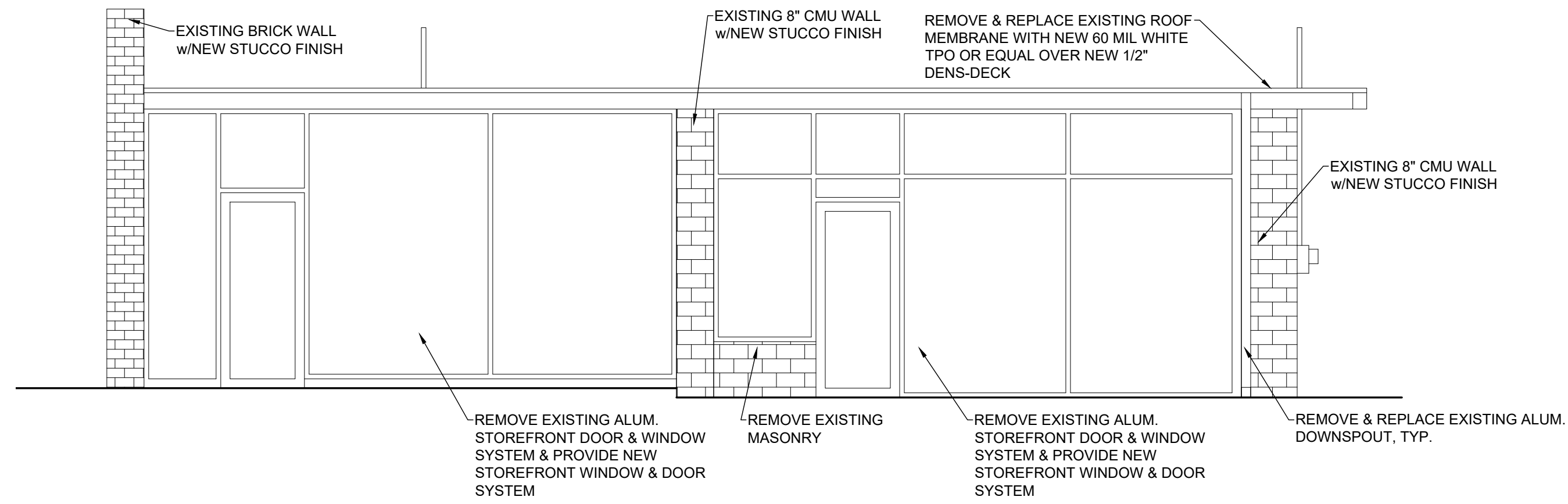
CEILING PLAN LEGEND

- 2x2 SUSPENDED ACOUSTICAL VINYL FACED TILE & GRID
- RECESSED CEILING FIXTURE
- EMERGENCY EXIT LIGHT
- EXIT SIGN
- 2 x 2 SUPPLY DIFFUSER
- GYPSUM WALLBOARD SOFFIT CEILING
- PENDANT FIXTURE
- 2 x 4 LIGHT FIXTURE
- 2 x 2 LIGHT FIXTURE
- EMERGENCY LIGHT
- 2 x 2 RETURN AIR
- EXHAUST FAN
- TRACK LIGHTING w/PENDANTS
- WALL SCONCE



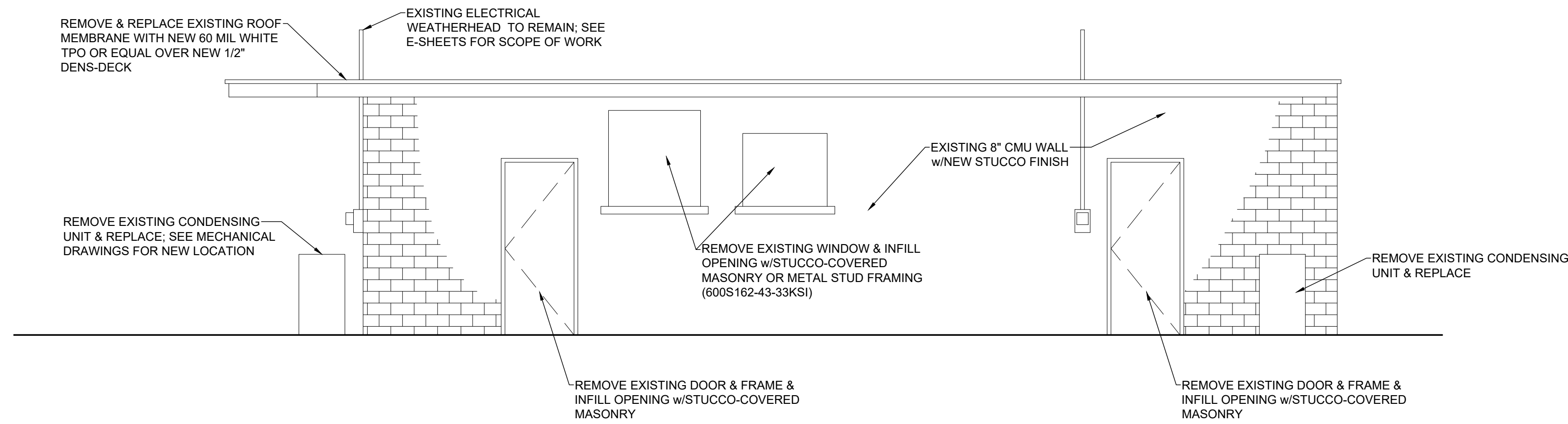
REFLECTED CEILING PLAN
SCALE: 1/4" = 1'-0"

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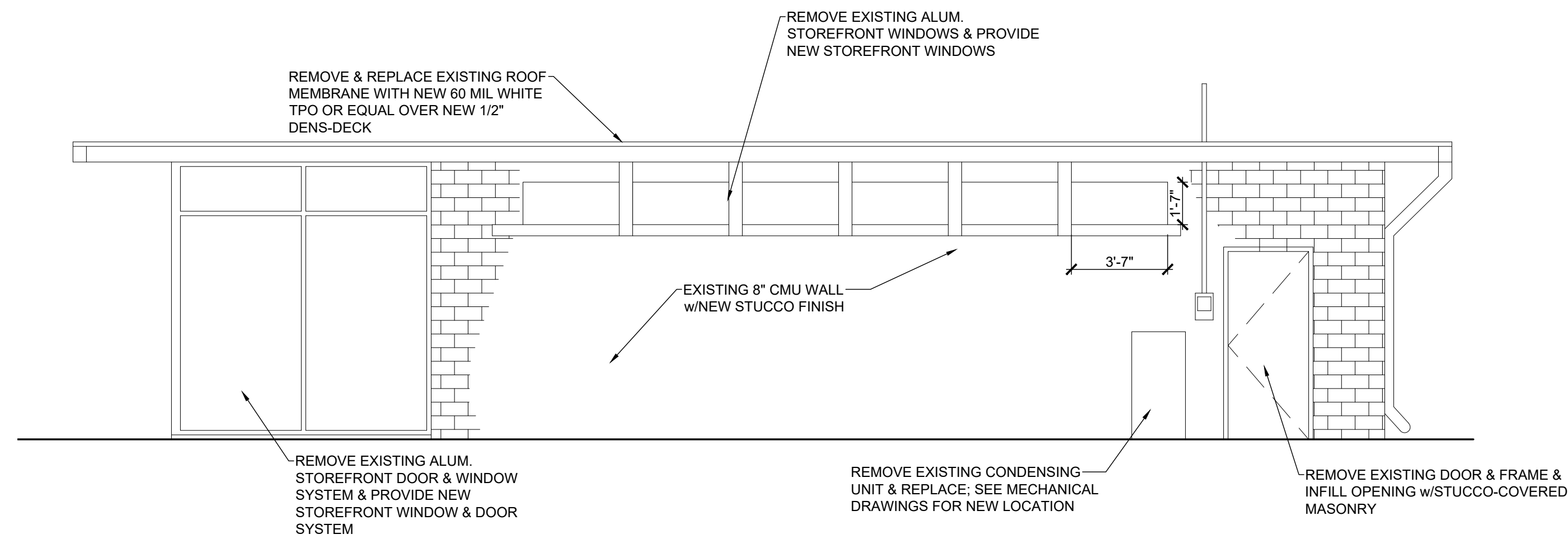
EXISTING SOUTH(FRONT) ELEVATION

SCALE: 1/4":1'0"



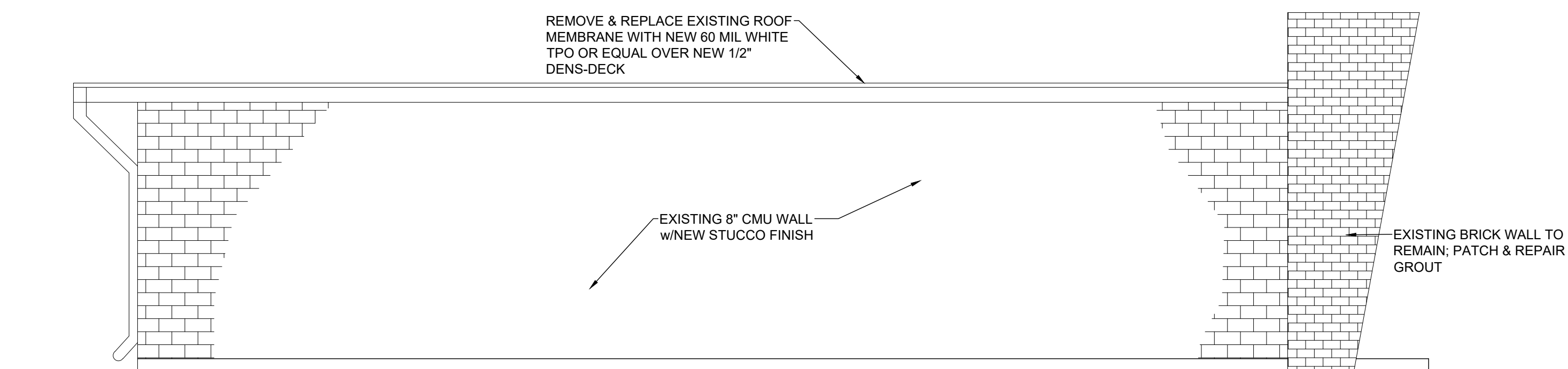
EXISTING NORTH(REAR) ELEVATION

SCALE: 1/4":1'0"



EXISTING EAST(SIDE) ELEVATION

SCALE: 1/4":1'0"



EXISTING WEST(SIDE) ELEVATION

SCALE: 1/4":1'0"

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SHEET TITLE: EXISTING BUILDING ELEVATIONS

NO. DATE REVISION

DRAWN BY: CAS

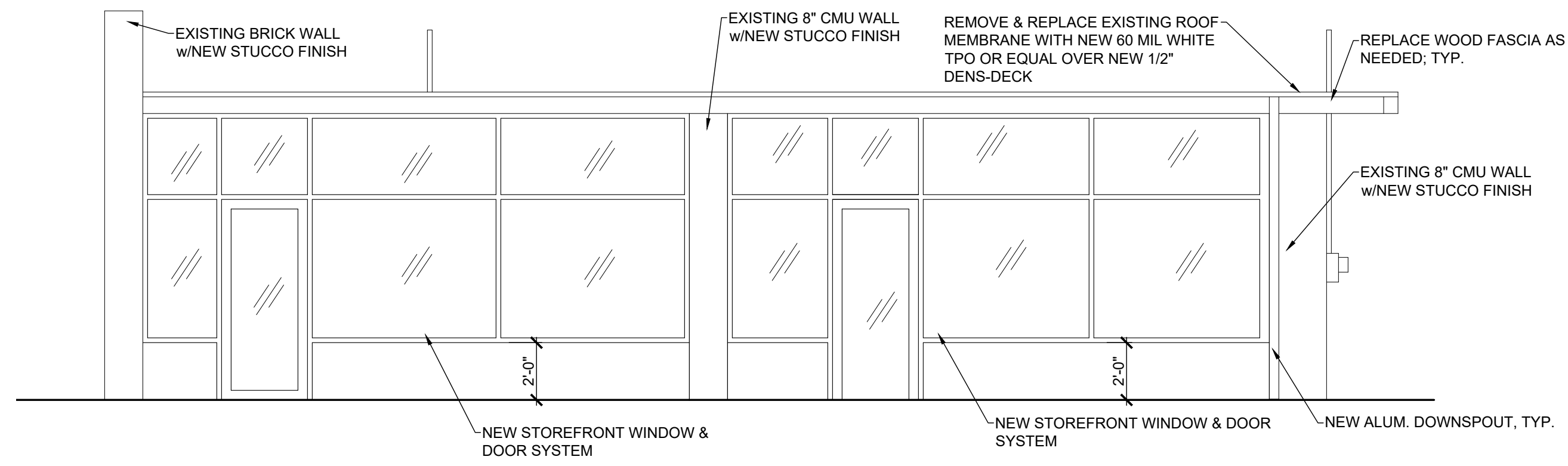
CHECKED BY: CAS

DATE: 12-22-22

SHEET

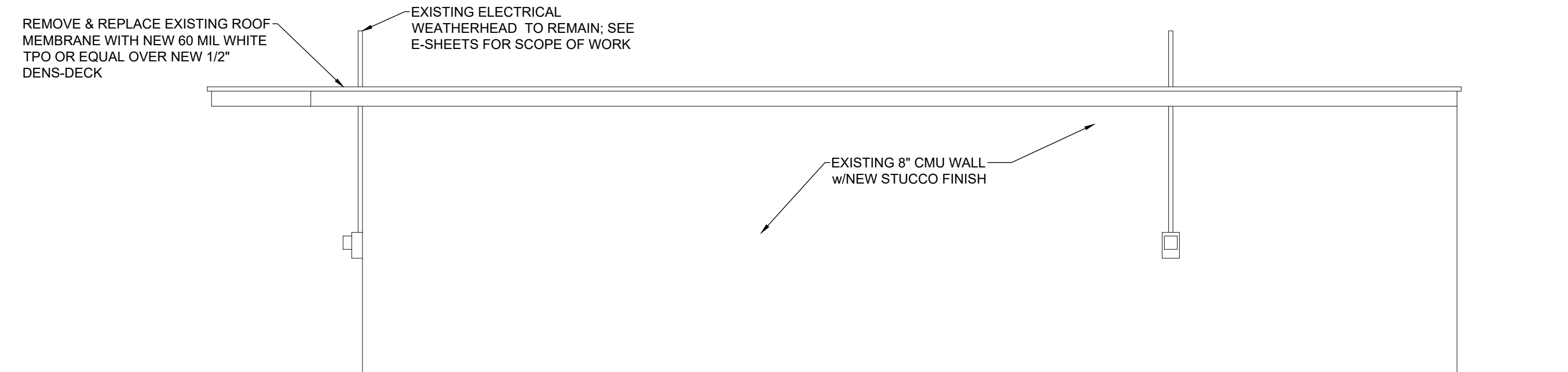
A-2

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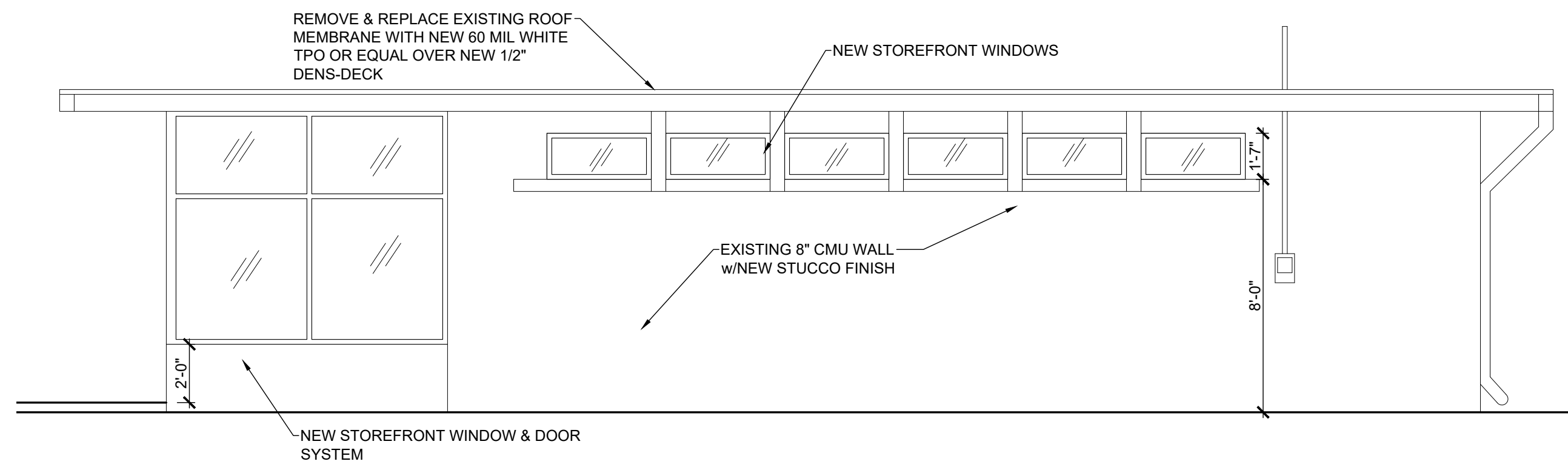
SOUTH(FRONT) ELEVATION

SCALE: 1/4":1'0"



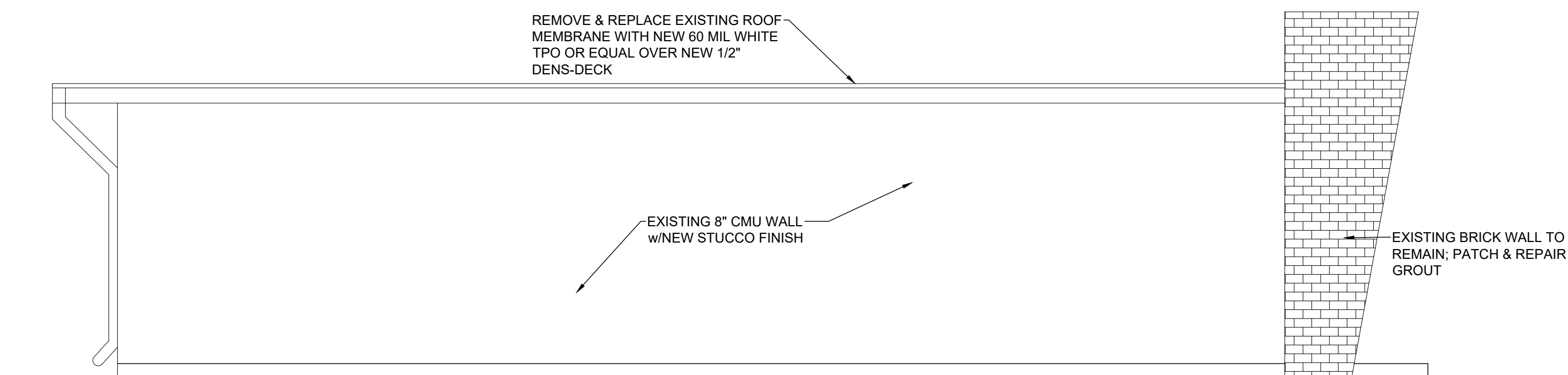
NORTH(REAR) ELEVATION

SCALE: 1/4":1'0"



EAST(SIDE) ELEVATION

SCALE: 1/4":1'0"



WEST(SIDE) ELEVATION

SCALE: 1/4":1'0"

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SHEET TITLE: BUILDING ELEVATIONS

NO.	DATE	REVISION

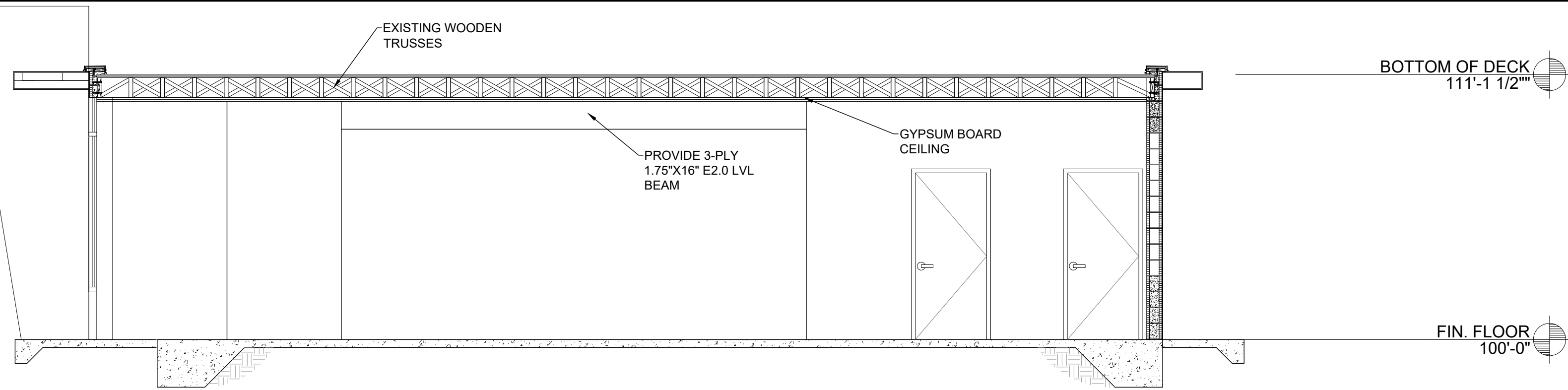
DRAWN BY: CAS

CHECKED BY: CAS

DATE: 12-22-22

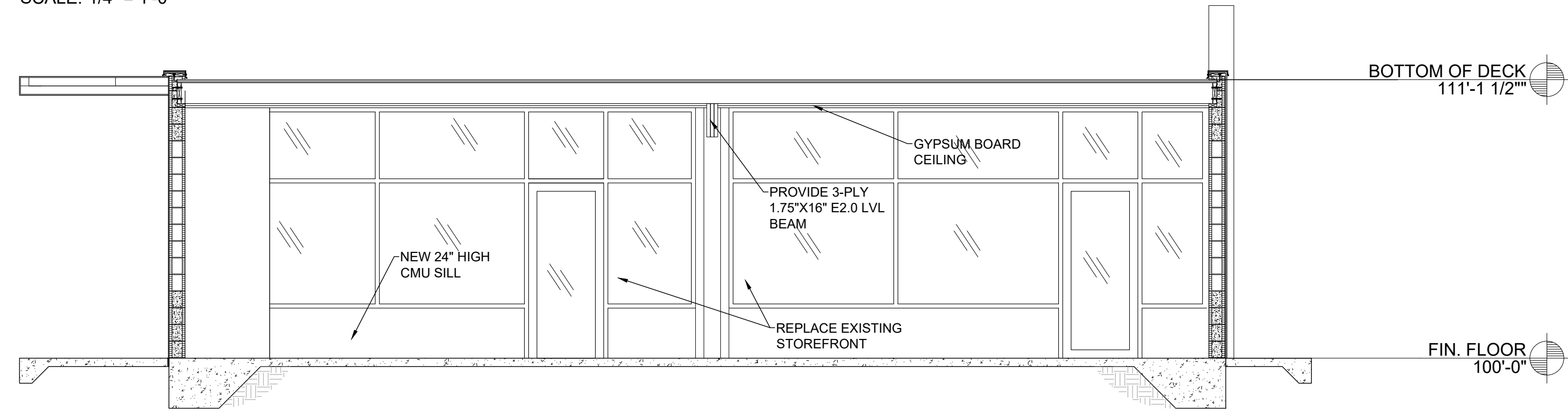
SHEET

A-2.1



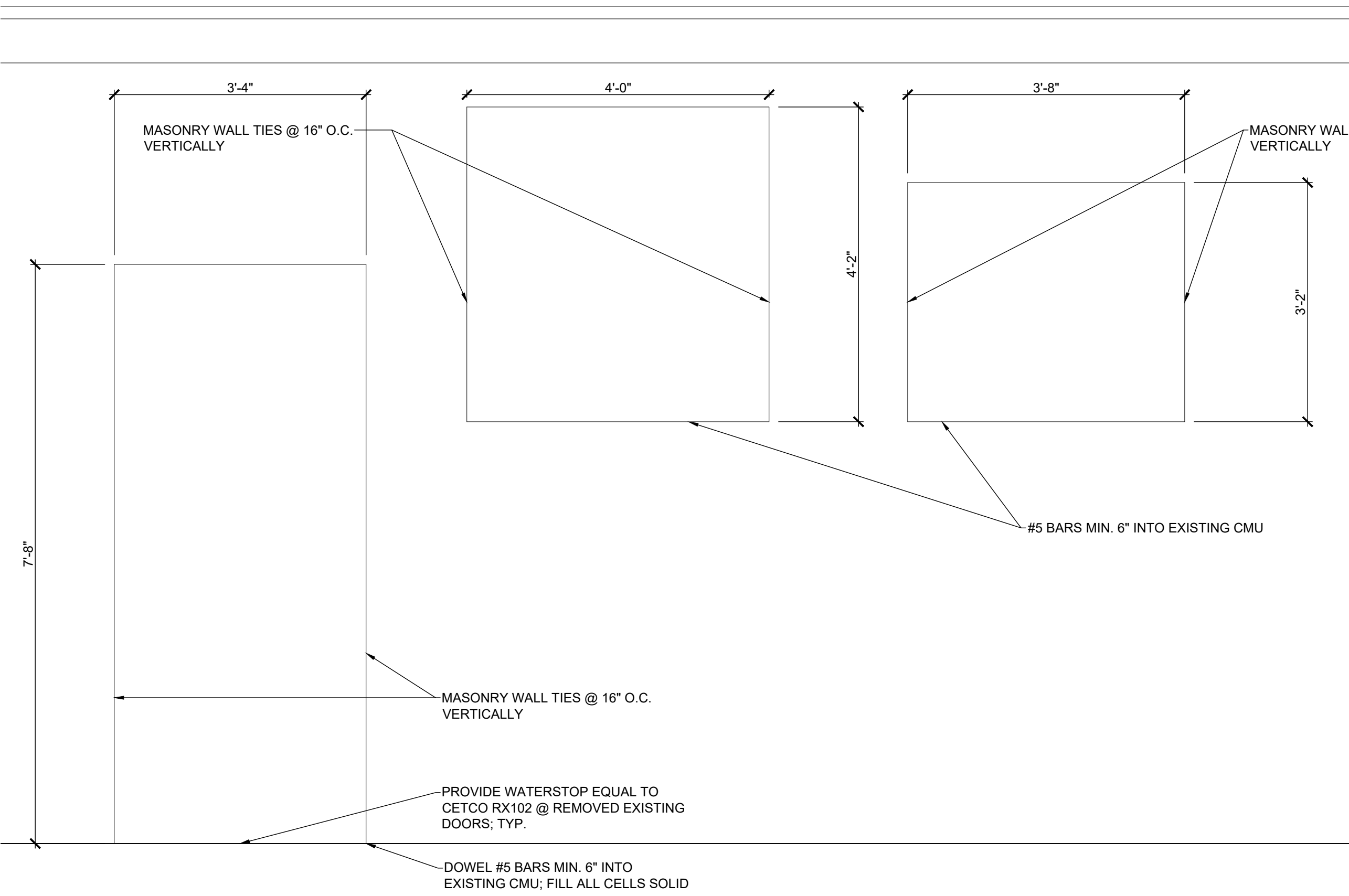
BUILDING SECTION - 1

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



BUILDING SECTION - 2

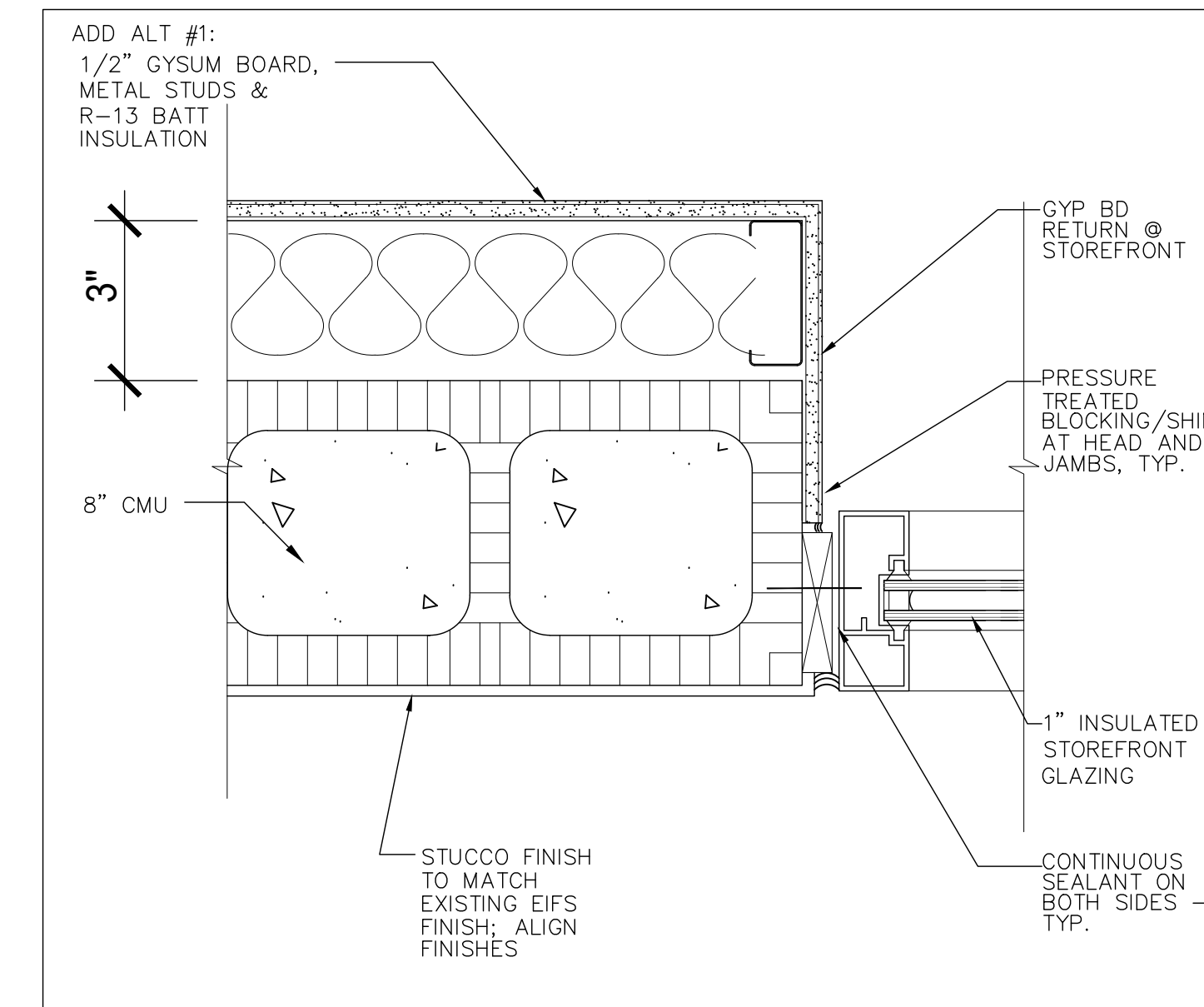
SCALE: 1/4" = 1'-0"



ELEVATION

3

SCALE: 3/4" = 1'-0"

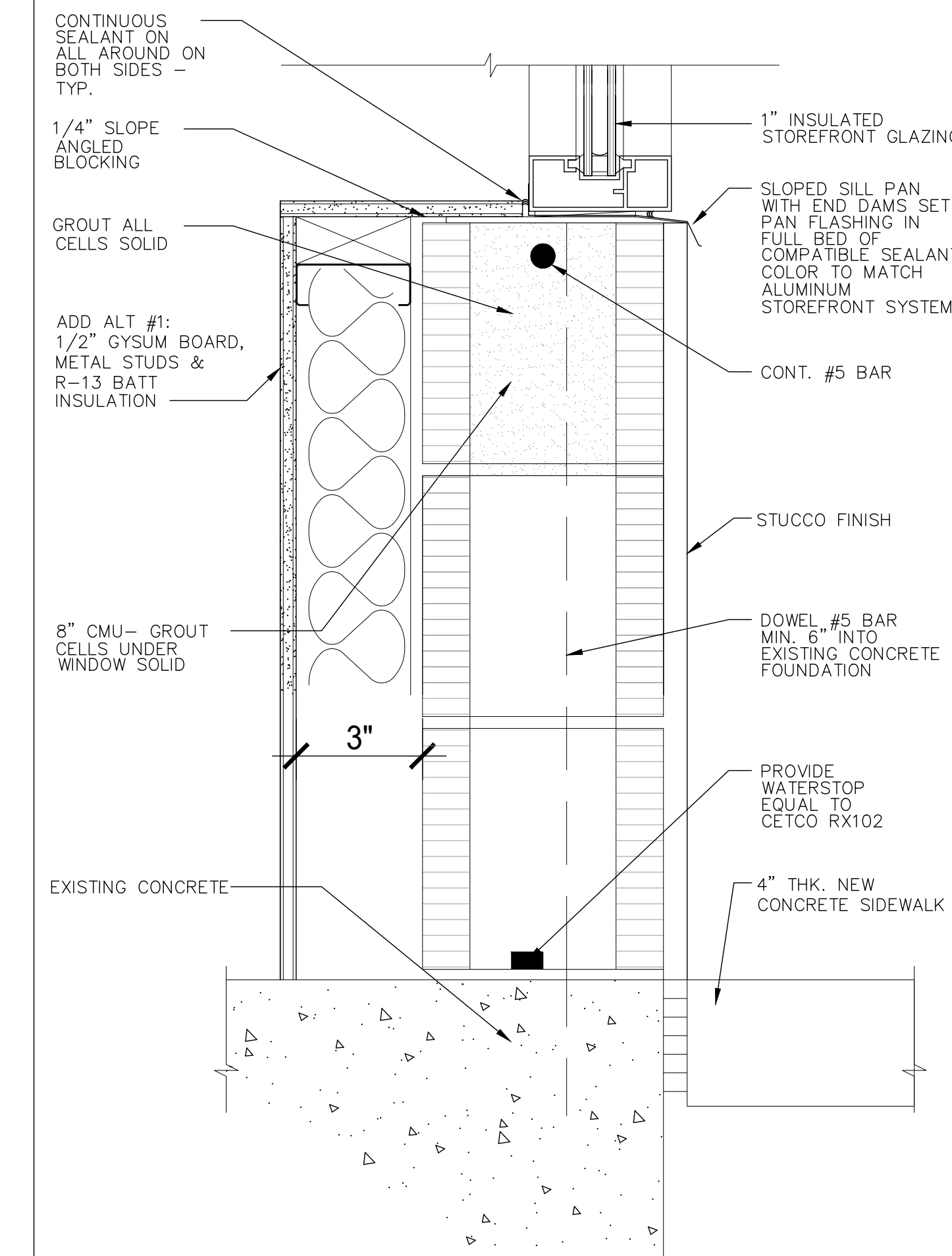


STOREFRONT JAMB DETAIL

AT CMU

SCALE: 3" = 1'-0"

6



STOREFRONT SILL DETAIL

AT CMU

SCALE: 3" = 1'-0"

10

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SHEET TITLE: BUILDING SECTIONS

NO.	DATE	REVISION

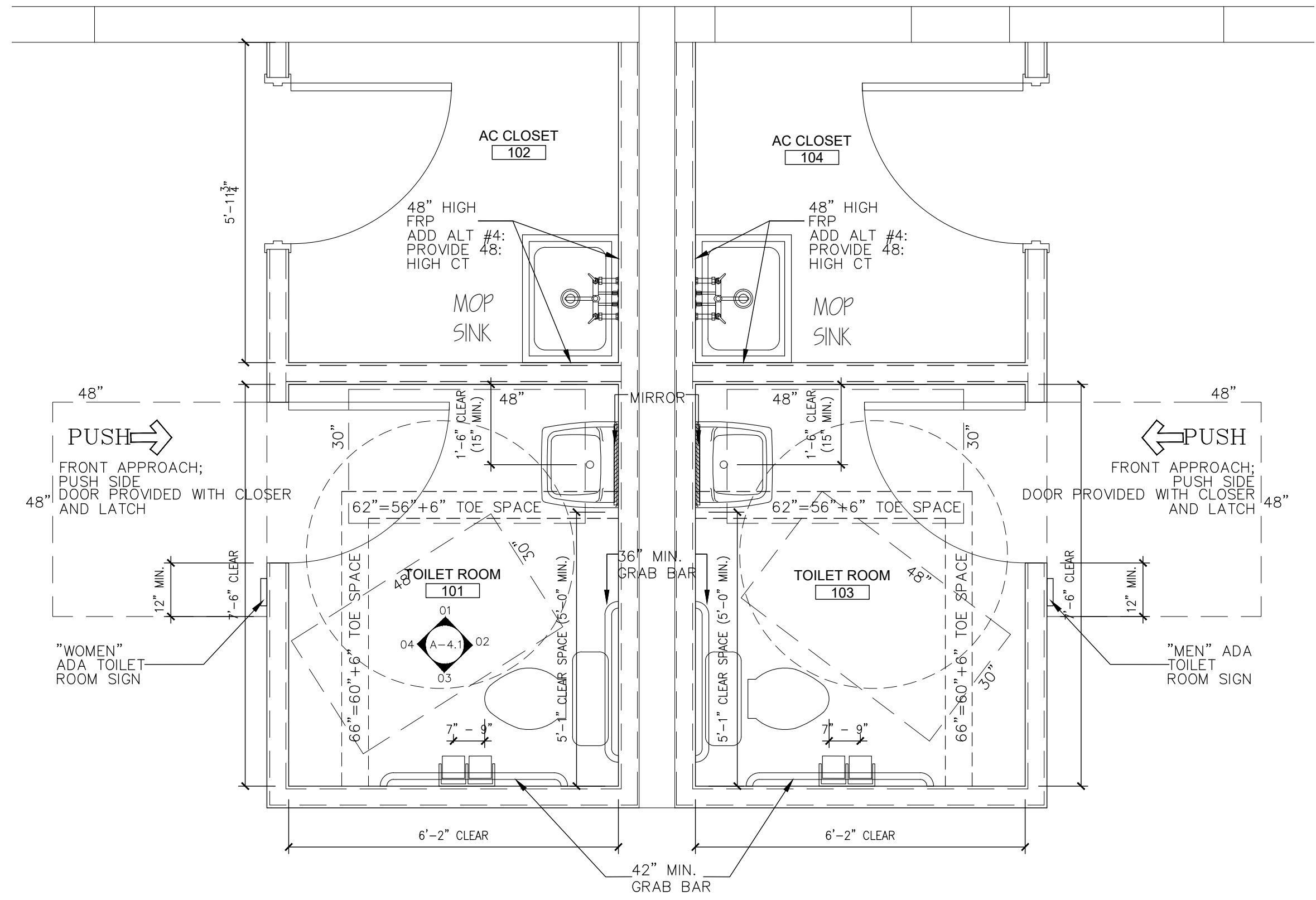
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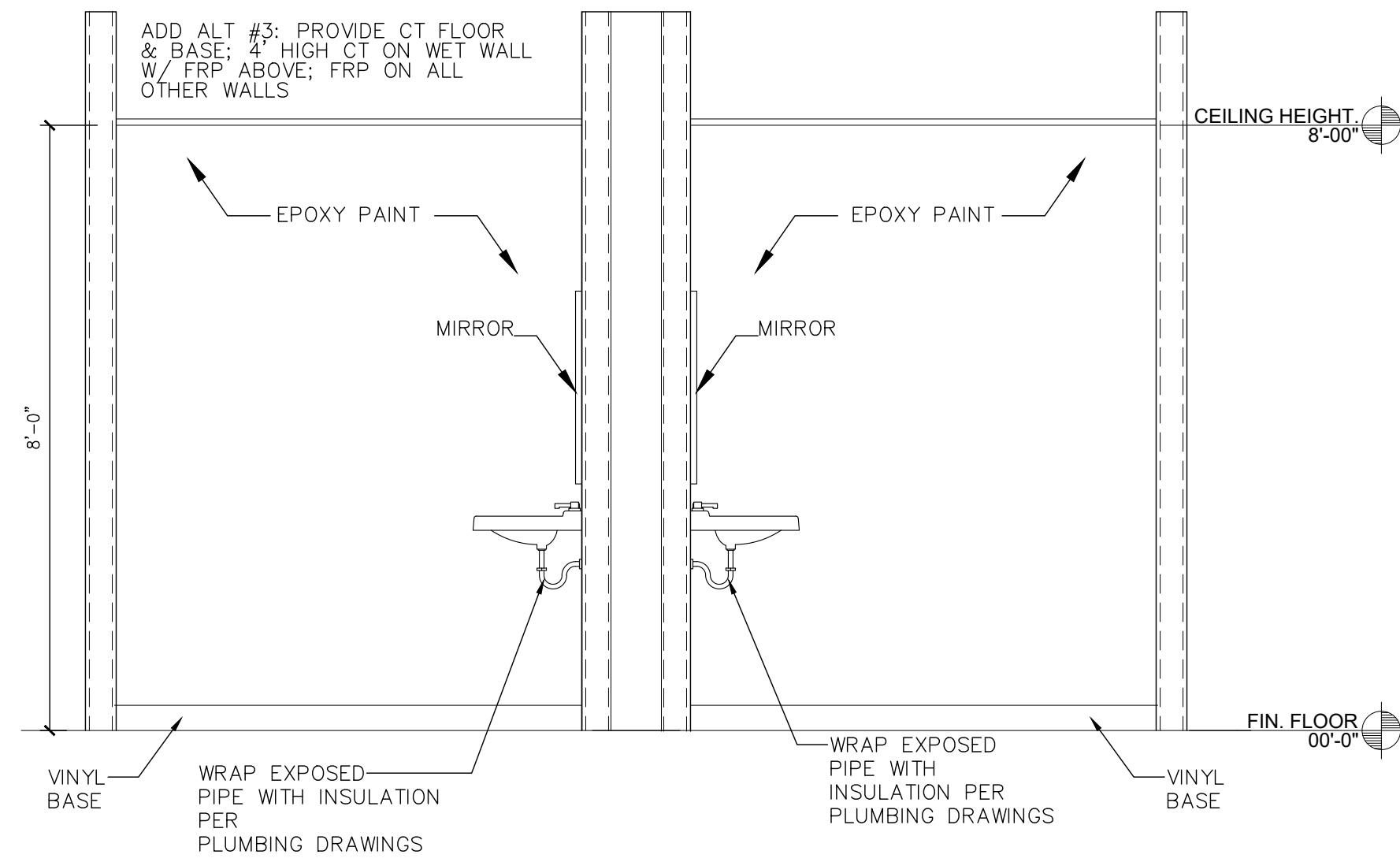
DATE: 12-22-22

SHEET

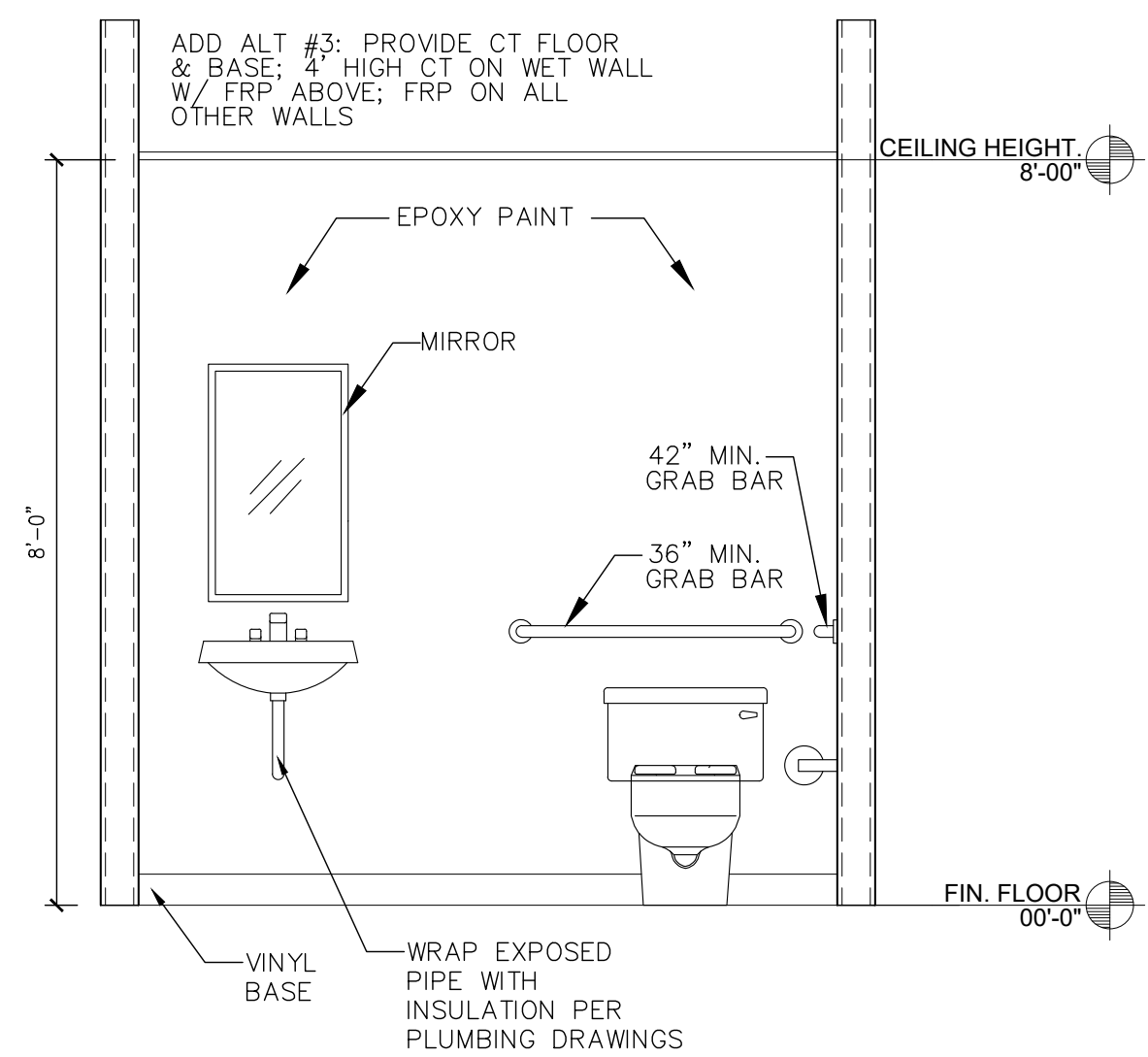
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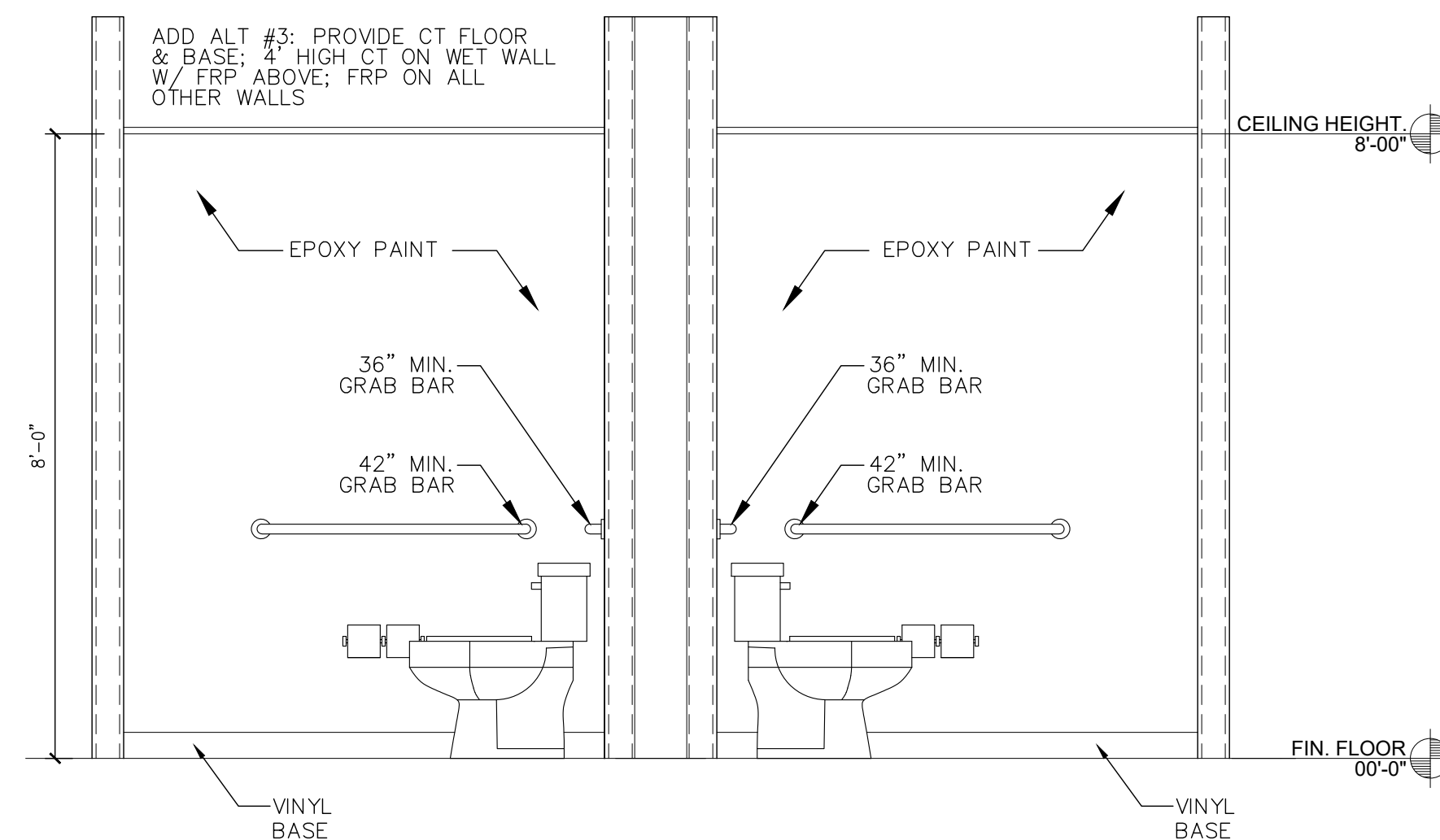
ENLARGED TOILET ROOM PLAN
SCALE: 1/2" = 1'-0"



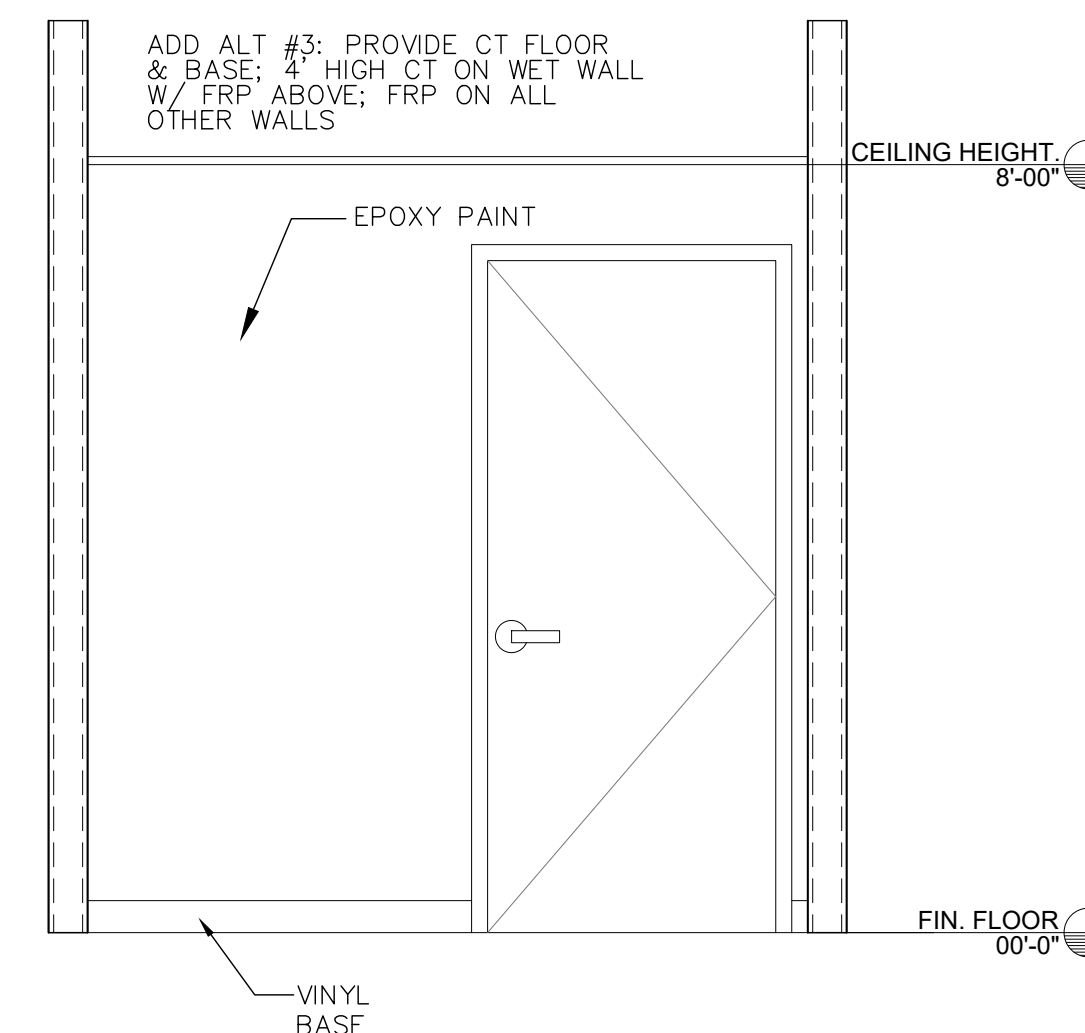
ELEVATION 01
SCALE: 1/2" = 1'-0"



ELEVATION 02
SCALE: 1/2" = 1'-0"



ELEVATION 03
SCALE: 1/2" = 1'-0"



ELEVATION 04
SCALE: 1/2" = 1'-0"

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SHEET TITLE: ENLARGED TOILET ROOM PLAN & ELEVATIONS	
NO.	DATE
	REVISION

DRAWN BY: CAS
CHECKED BY: CAS
DATE: 12-22-22

SHEET
A-4

DOOR SCHEDULE

MARK	LOCATION	DOORS					FRAMES		HDW GRP	LBL/RTG	REMARKS
		TYPE	SIZE	MATL	GLAZING	LOUVER	MATL	TYPE			
100	ENTRY DOOR	F	3'-0" x 7'0" x 1 3/4"	AL/GL	AL/GL	--	AL		3		STOREFRONT DOOR
100A	ENTRY DOOR	F	3'-0" x 7'0" x 1 3/4"	AL/GL	AL/GL	--	AL		3		STOREFRONT DOOR
101	TOILET ROOM	F	3'0" x 7'0" x 1 3/4"	WD	--	--	MTL		1		
102	AC CLOSET	F	3'-0" x 7'0" x 1 3/4"	WD	--	--	MTL		2		
103	TOILET ROOM	F	3'-0" x 7'0" x 1 3/4"	WD	--	--	MTL		1		
104	AC CLOSET	F	3'-0" x 7'0" x 1 3/4"	WD	--	--	MTL		2		

AL/GL = ALUMINUM/GLASS
 MTL = METAL
 STL = STEEL
 WD = WOOD

RE-KEY EXISTING DOOR CYLINDERS PER TENANT'S SPECIFICATIONS

DOORS AND HARDWARE

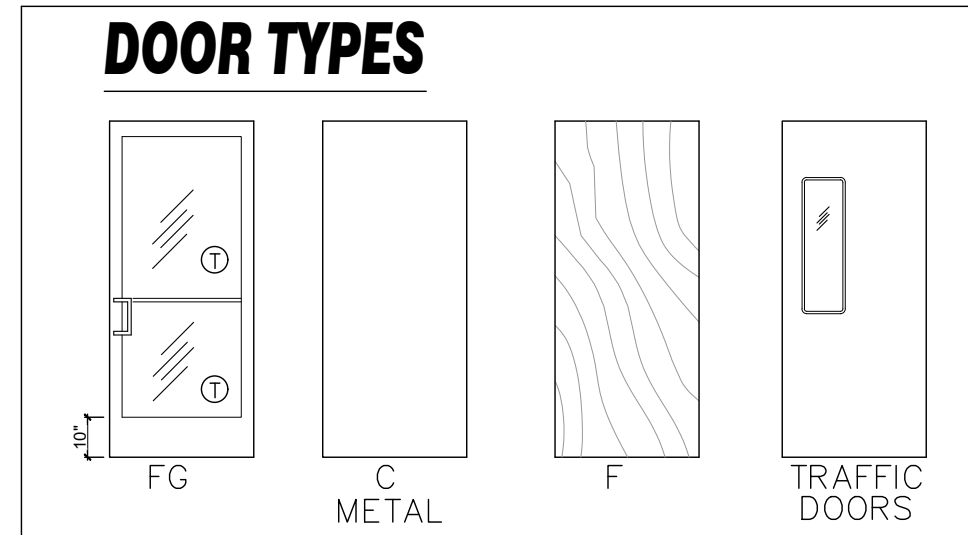
- ALL INTERIOR DOORS TO BE FLUSH SOLID CORE WOOD DOORS (BIRCH), PAINT FINISH. FRAMES SHALL BE PAINTED STEEL (WELDED OR KNOCK-DOWN) - COORDINATE w/TENANT.
- PROVIDE LEVER TYPE COMMERCIAL (ANSI A156.2, 1996, SERIES 4000, GRADE 1) GRADE DOOR HARDWARE (ANSI A117.1 COMPLIANT). OPERATING LEVER ON DOOR SHALL HAVE A SHAPE THAT IS EASY TO GRASP WITH ONE HAND AND DOES NOT REQUIRE TIGHT GRASPING, TIGHT PINCHING, OR TWISTING OF THE WRIST TO OPERATE. LEVER-OPERATED MECHANISMS ARE ACCEPTABLE DESIGNS.
- COORDINATE ALL KEYING & LOCKSETS WITH TENANT.

HARDWARE GROUP 1
 PRIVACY LOCKSET
 1 1/2 PR BUTT HINGES
 1 DOOR CLOSER
 3 DOOR SILENCERS
 1 WALL STOP
 ANSI F76 BED/BATH PRIVACY LOCK:
 PUSH-BUTTON LOCKING, TURNING
 INSIDE LEVER RELEASES PUSH-BUTTON.
 CAN OPEN FROM OUTSIDE VIA
 EMERGENCY RELEASE

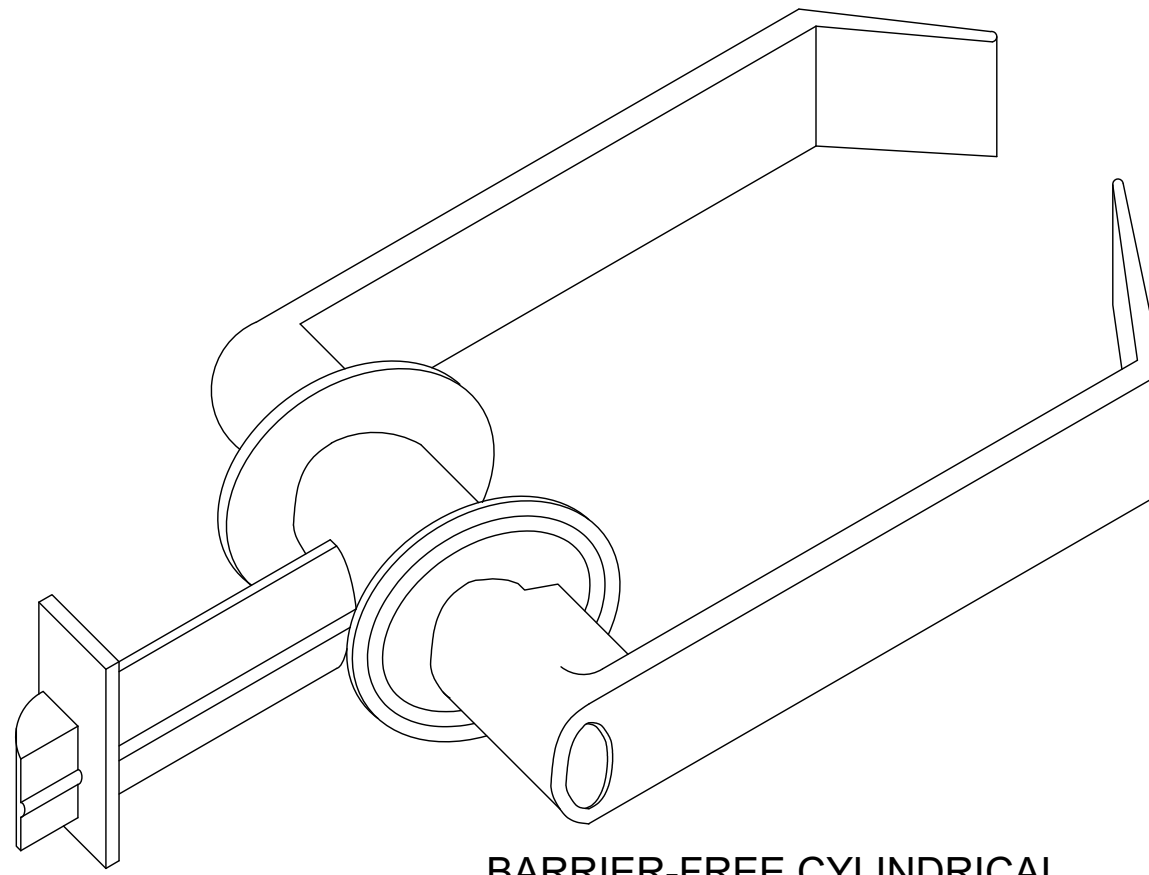
HARDWARE GROUP 2
 1 STOREROOM LOCKSET
 ANSI F86 OUTSIDE LEVER FIXED, KEY ONLY
 INSIDE ALWAYS UNLOCKED
 1 1/2 PR BUTT HINGES
 3 DOOR SILENCERS
 1 WALL STOP
 1 KICKPLATE
 1 MOP PLATE

HARDWARE GROUP 3
 3'-0 x 7'-0" DOORS
 DOORS & HARDWARE
 BY STOREFRONT SUPPLIER
 3'-0 x 7'-0" ALUMINUM DOORS
 3 PR NRP HINGES
 2 DOOR SILENCERS
 1 CLOSER

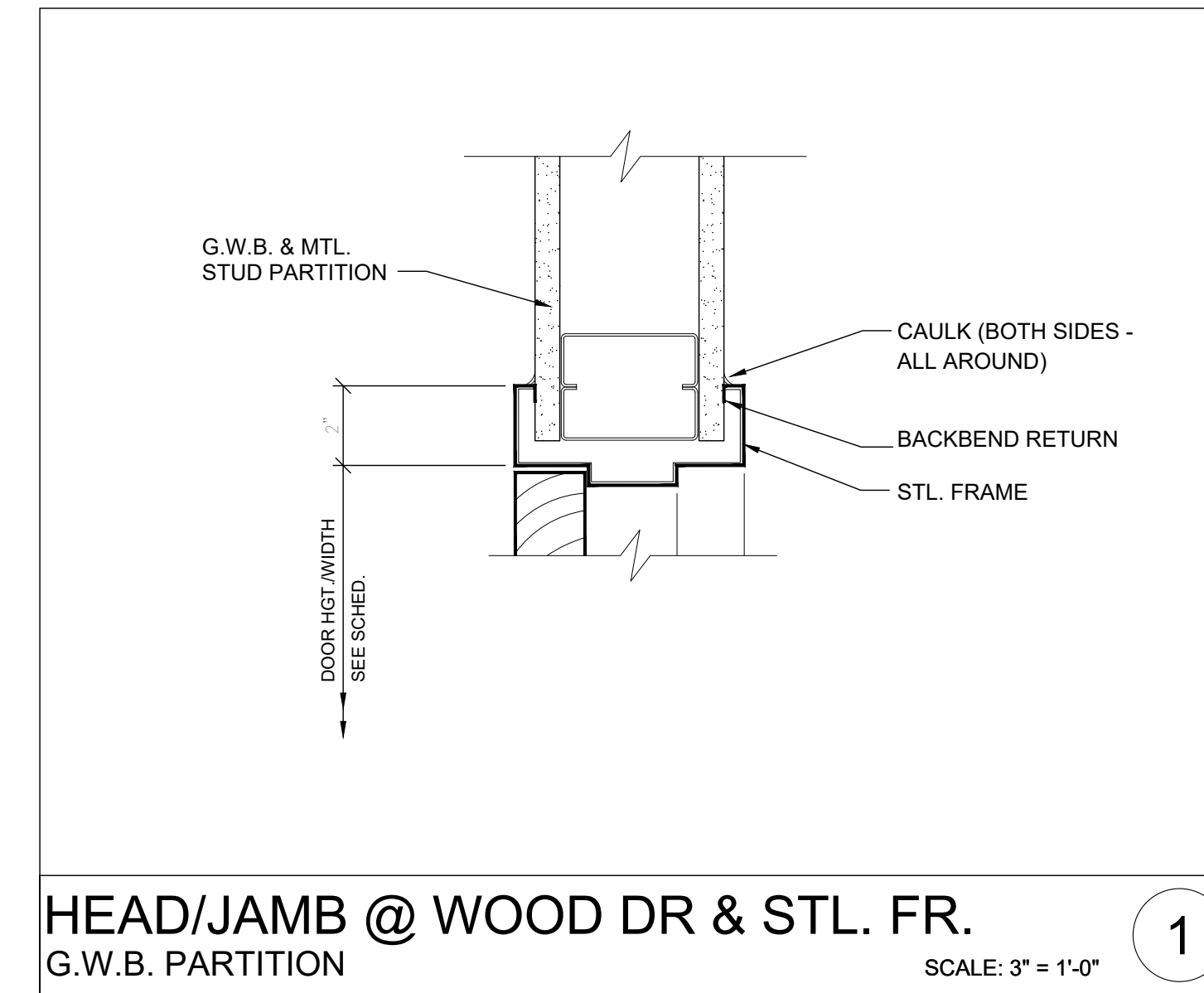
1 LEVER HANDLE w/LOCKSET - EXTERIOR
 1 THRESHOLD (ADA/FBC COMPLIANT)
 WEATHERSTRIPPING
 10" MIN BOTTOM RAIL



① = TEMPERED
 MIN OF ONE VISION LITE IN EACH DOOR @ 43" MAX AFF
 FBC-ACCESSIBILITY 404.2.11 WHEN PROVIDED



BARRIER-FREE CYLINDRICAL
 LEVER SET DESIGN
 STAINLESS STEEL FINISH

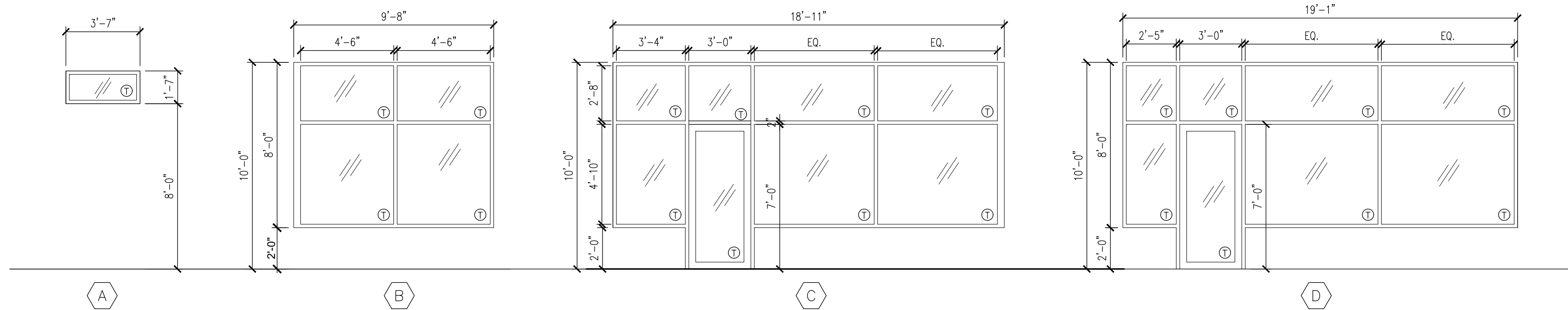


HEAD/JAMB @ WOOD DR & STL. FR.
 G.W.B. PARTITION

SCALE: 3" = 1'-0"

1

WINDOW TYPES



NOTE: FIELD VERIFY ALL OPENINGS

STOREFRONT SYSTEM:

THERMALLY BROKEN ALUMINUM FRAME (VERIFY FRAME COLOR WITH OWNER)

WATER INFILTRATION: 0.01 CFM/FT² WHEN TESTED IN ACCORDANCE WITH ASTM E 283-91 AT A DIFFERENTIAL STATIC PRESSURE OF 6.24 PSF.
 20 PSF WHEN TESTED IN ACCORDANCE WITH ASTM E 331-93 AT A STATIC PRESSURE OF 20 PSF.
 L/175 OR 3/4" MAXIMUM WHEN TESTED IN ACCORDANCE WITH ASTM E 330-96 WITH ALLOWABLE STRESS IN ACCORDANCE WITH AA SPECIFICATIONS FOR ALUMINUM STRUCTURES

GLAZING: TEMPERED AS NOTED
 (EXTERIOR GLASS EQUAL TO PPG R100; SOLARBRONZE + CLEAR; - ASTM E773/E774)
 COMPLY WITH WIND PRESSURE LOADS LISTED ON STRUCTURAL DRAWINGS FOR POSITIVE AND NEGATIVE PRESSURE.

VISIBLE LIGHT TRANSMITTANCE = .47 (MAX)

SHADING COEFFICIENT = .58 (MAX)

SOLAR HEAT GAIN COEFFICIENT = .25 (MAX)

FRAME FINISH: ANODIZED ALUMINUM (COLOR TO BE SELECTED BY THE ARCHITECT) FROM 6063-T5 ALLOY, 0.062" WALL THICKNESS.

PROVIDE ALUMINUM SILL PAN WITH END DAMS, FINISH TO MATCH FRAMES.

PROVIDE WEATHERSTRIPPING AND SEALANT AND BACKER ROD ON BOTH SIDES OF THE WINDOW, ALL AROUND.

HARDWARE: CYLINDER LOCK WITH THUMBTURN, MANUFACTURER'S STANDARD PUSHADA ACCESSIBLE PULL BARS AND HINGES, CLOSERS, SILL IN A BED OF SEALANT UNDER DOORS.

FIELD VERIFY ALL WINDOW OPENINGS PRIOR TO FABRICATION

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SHEET TITLE: DOOR & HARDWARE SCHEDULE

NO.

DATE

REVISION

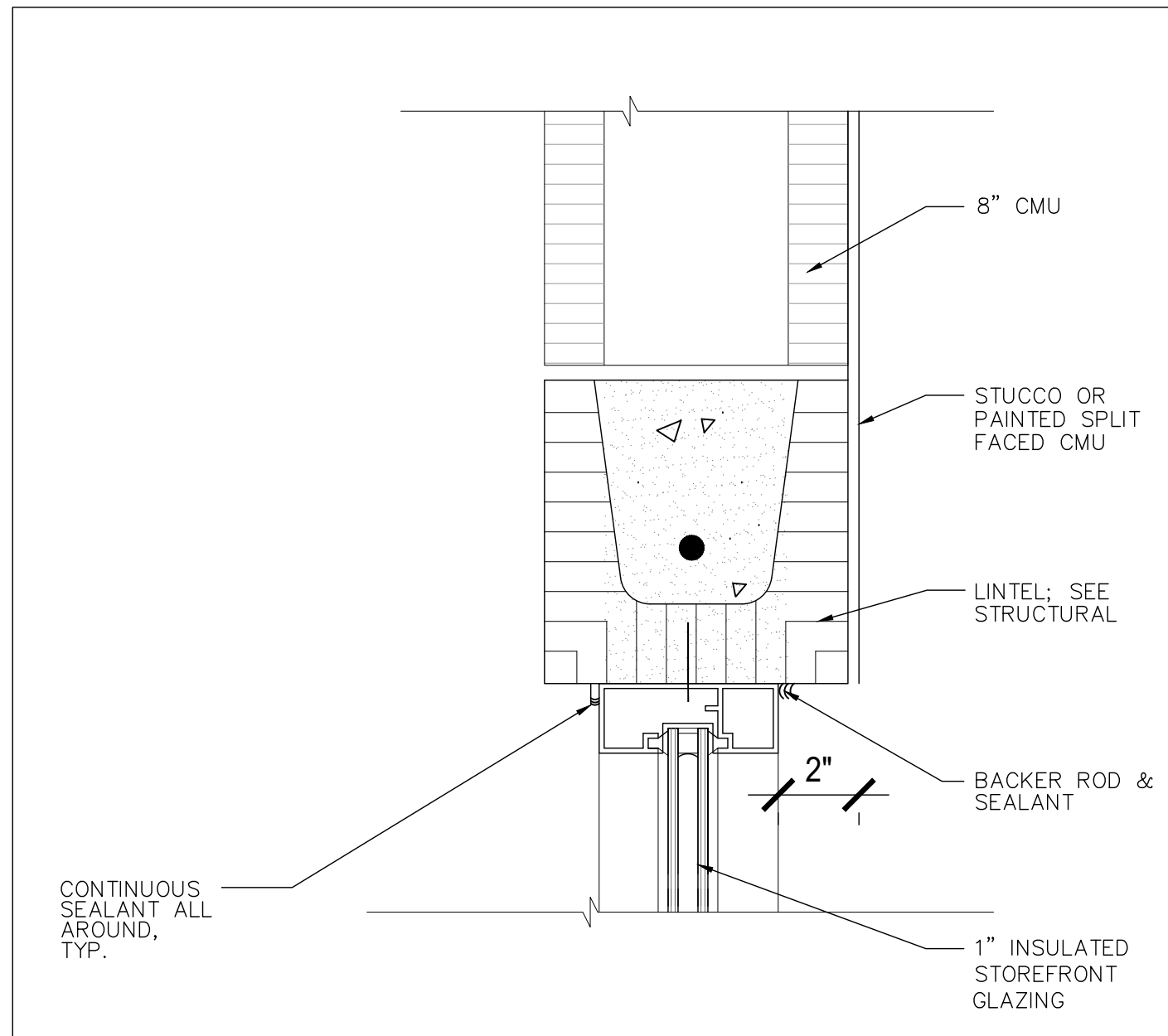
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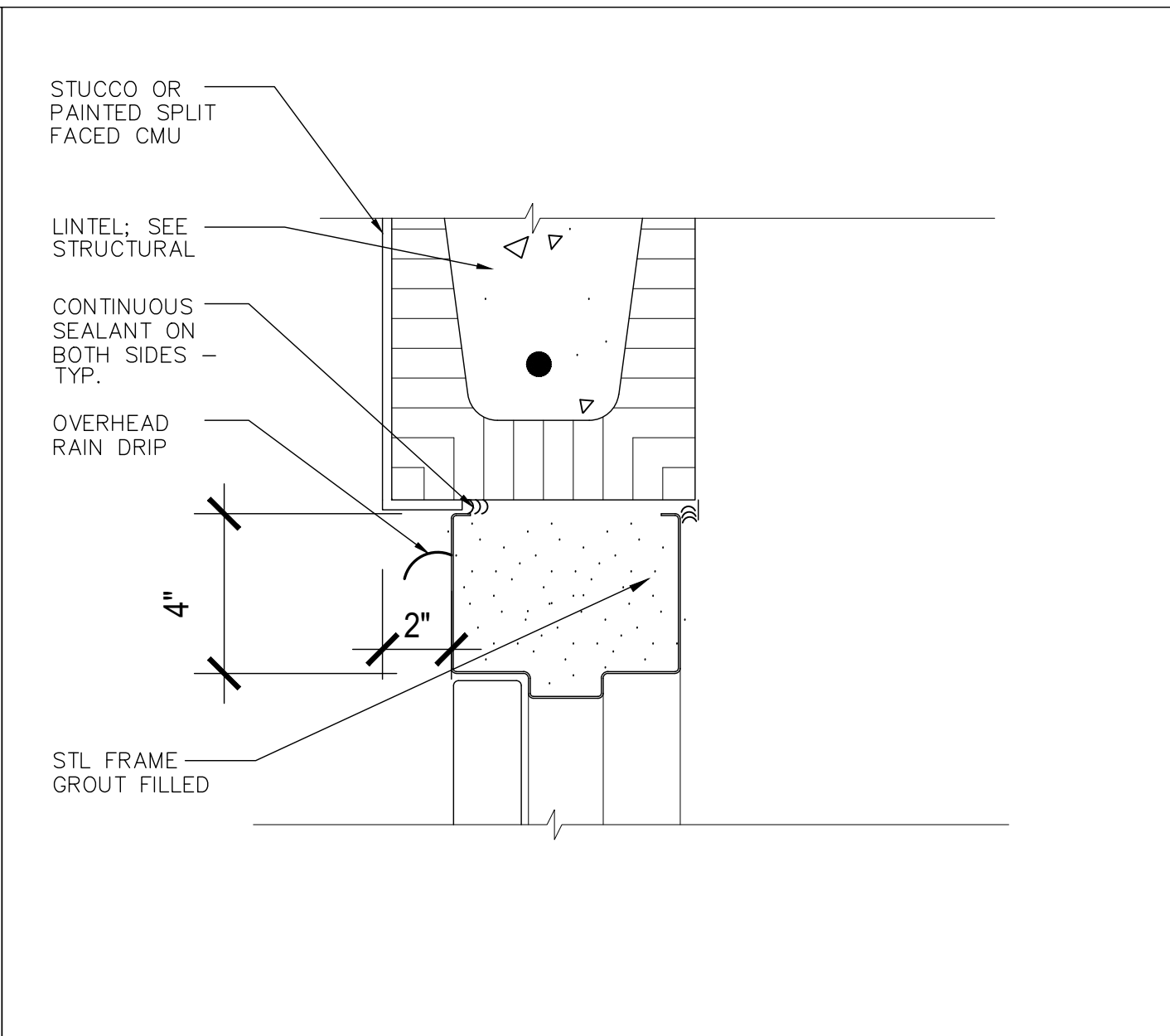
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SHEET

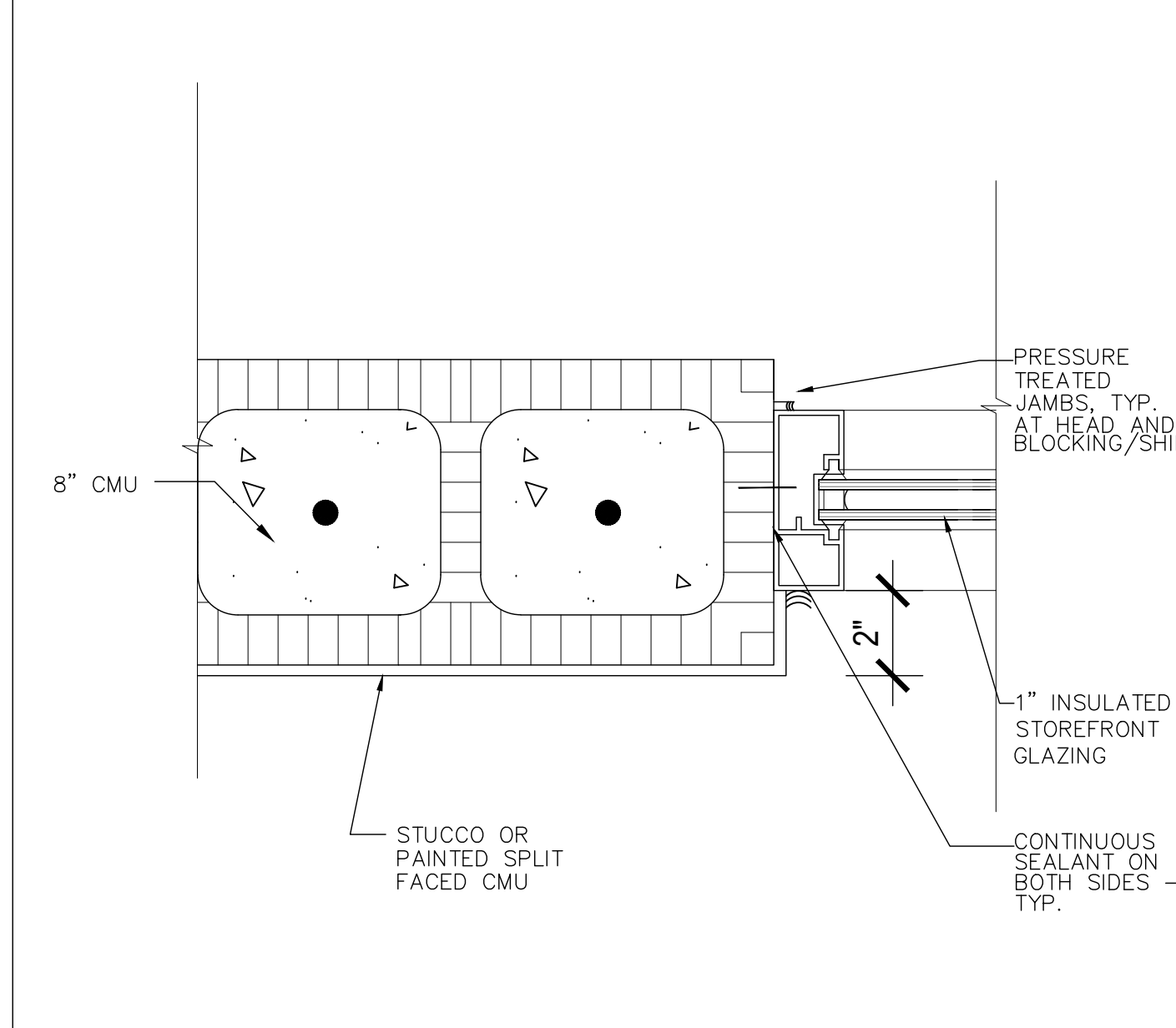
A-4.1



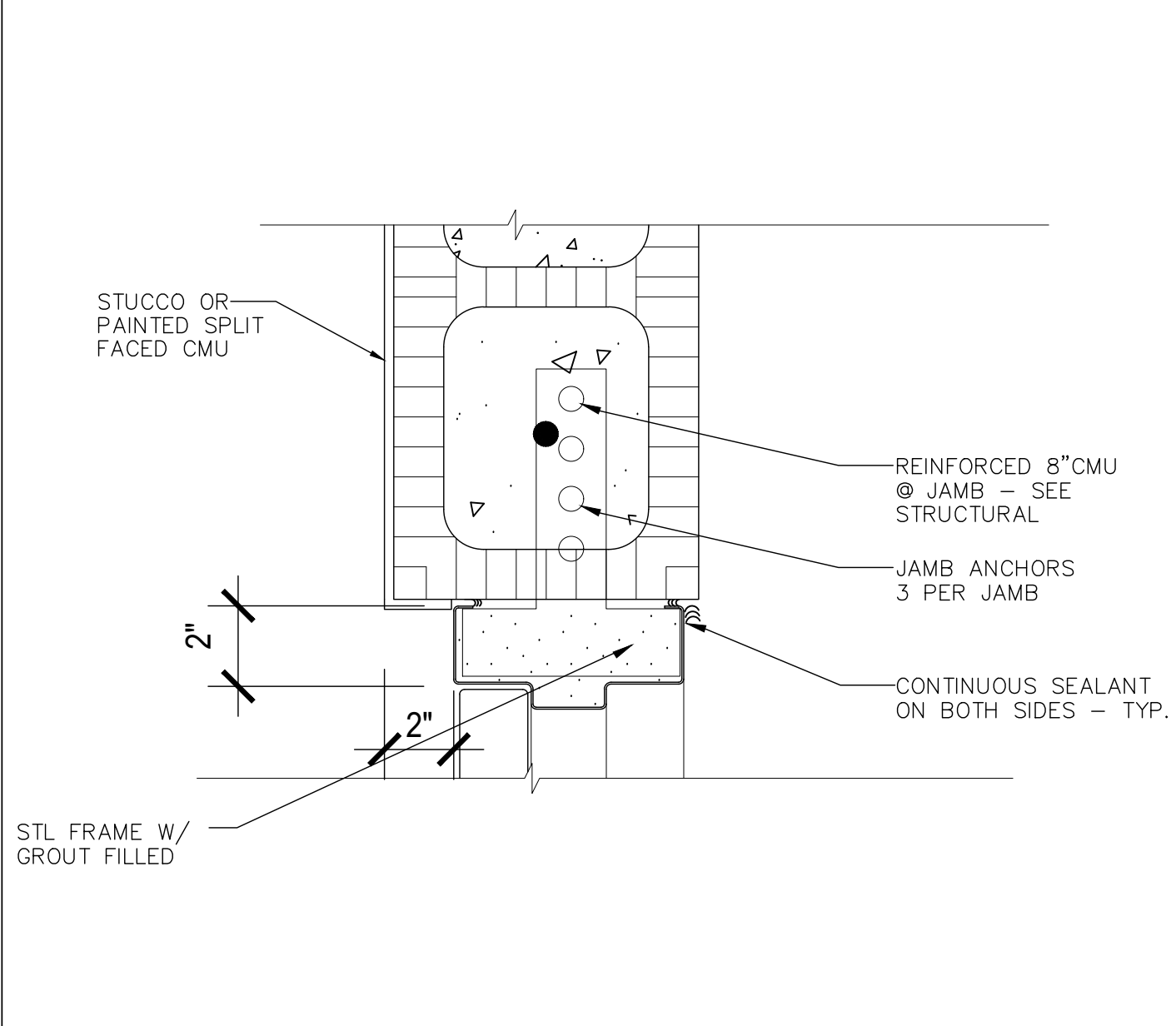
STOREFRONT HEAD DETAIL AT CMU SCALE: 3" = 1'-0" ①



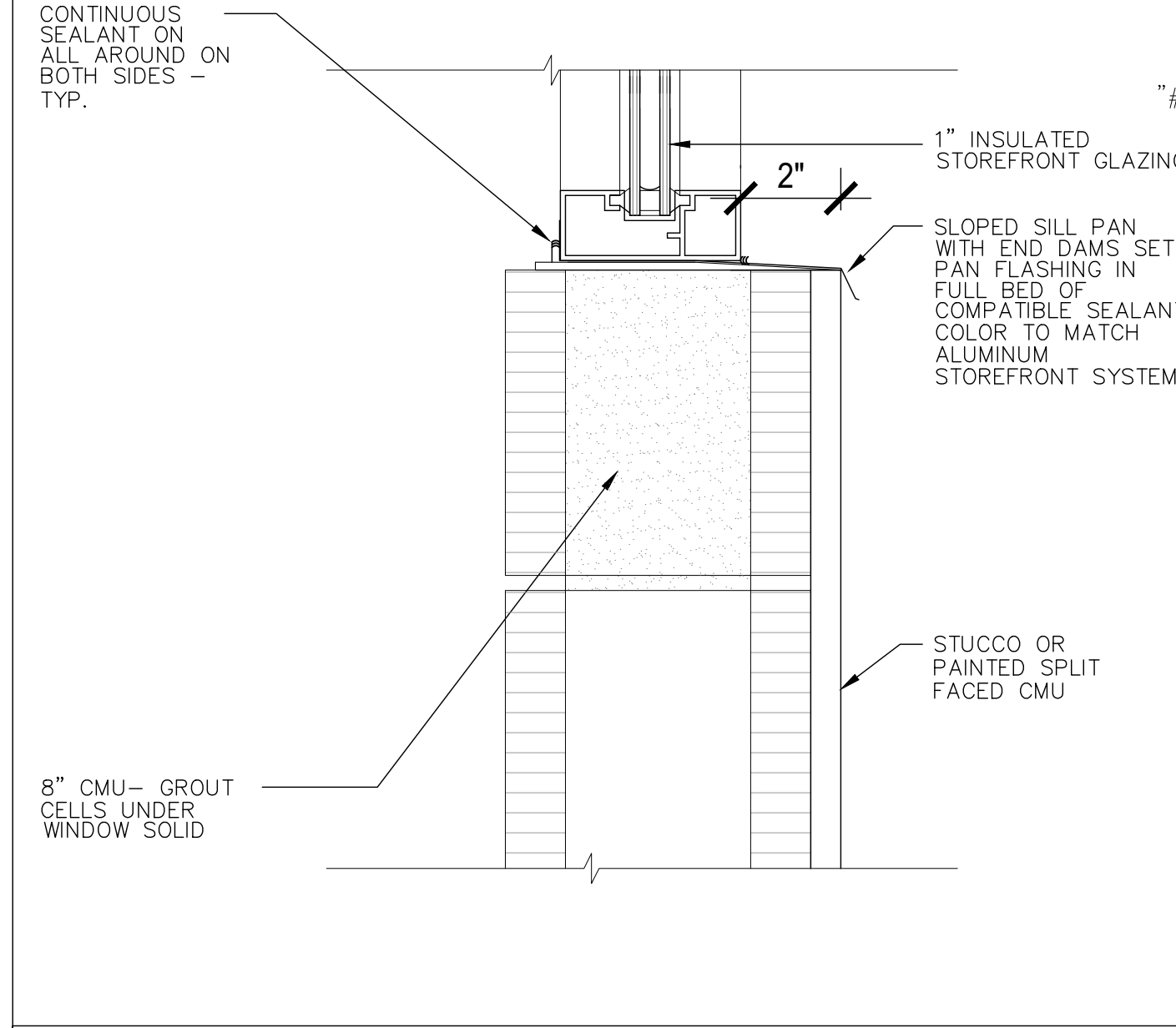
HEAD-STL DR FRAME AT CMU SCALE: 3" = 1'-0" ②



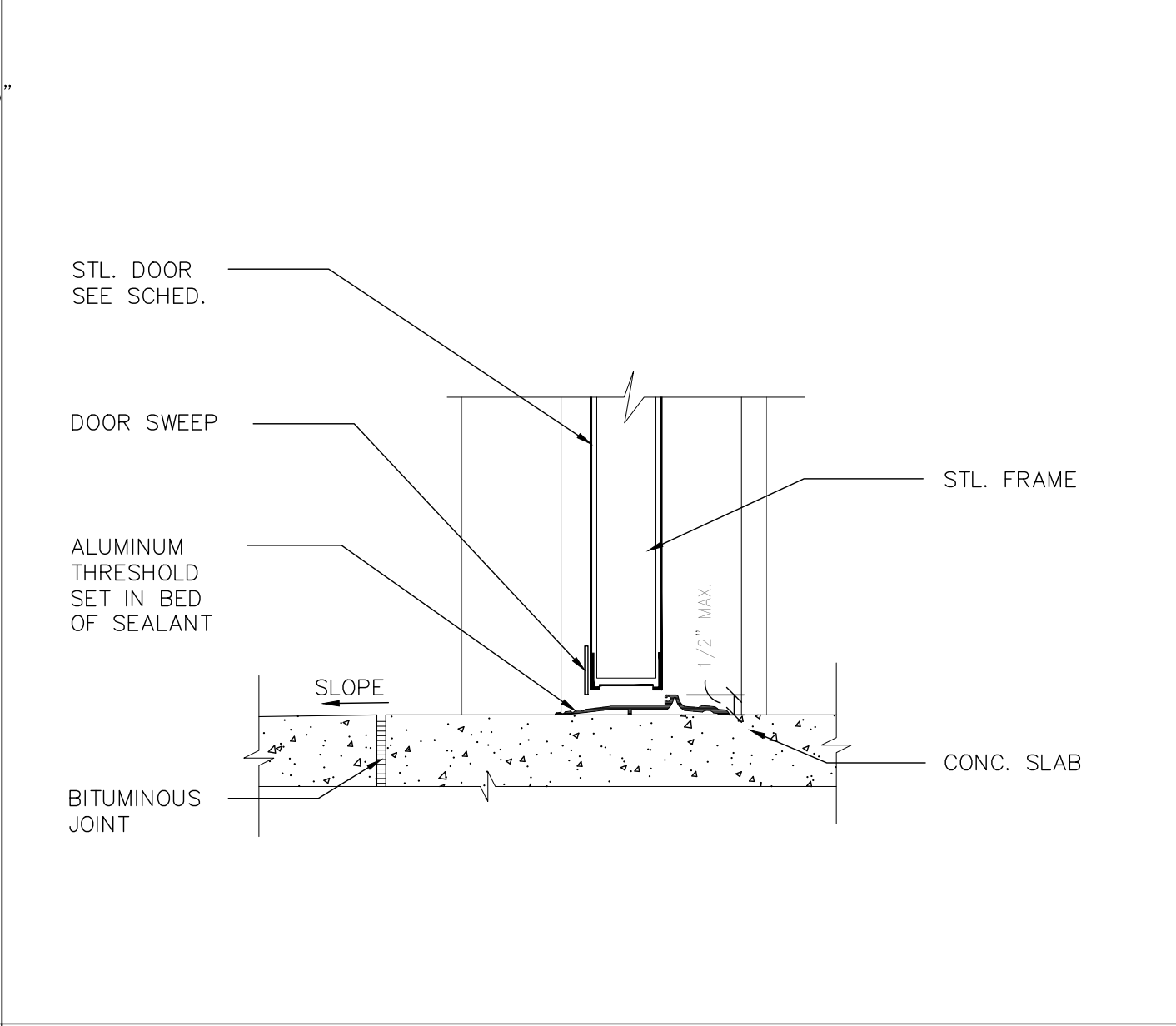
STOREFRONT JAMB DETAIL AT CMU SCALE: 3" = 1'-0" ③



JAMB-STL DR FRAME AT CMU SCALE: 3" = 1'-0" ④



STOREFRONT SILL DETAIL AT CMU SCALE: 3" = 1'-0" ⑤



SILL-STL DR FRAME SCALE: 3" = 1'-0" ⑥

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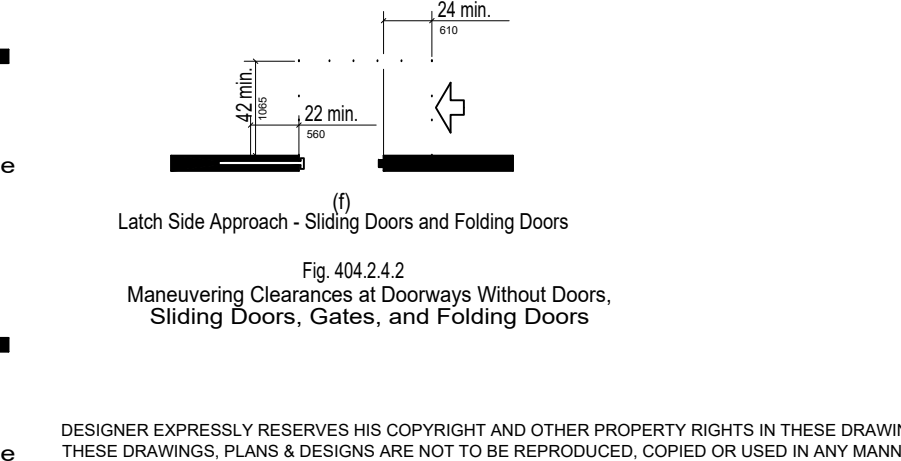
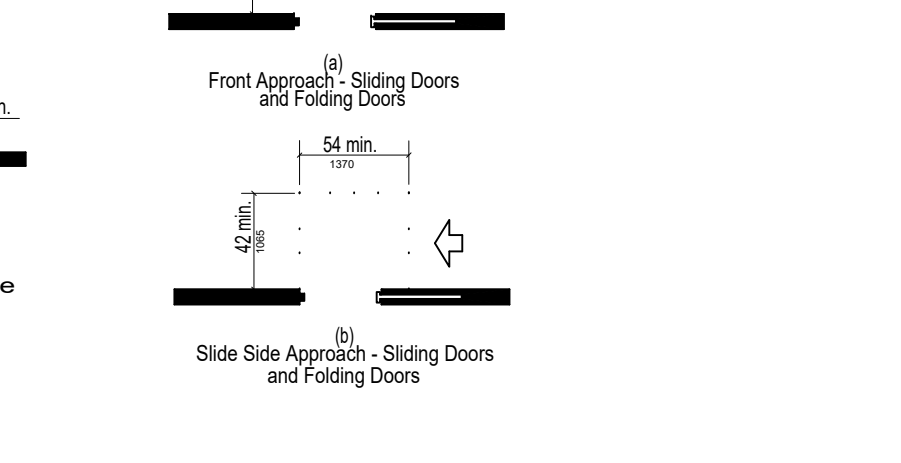
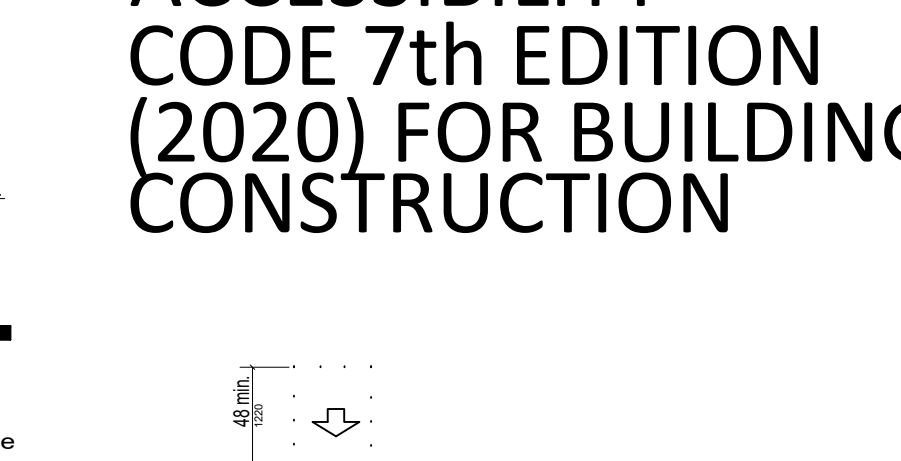
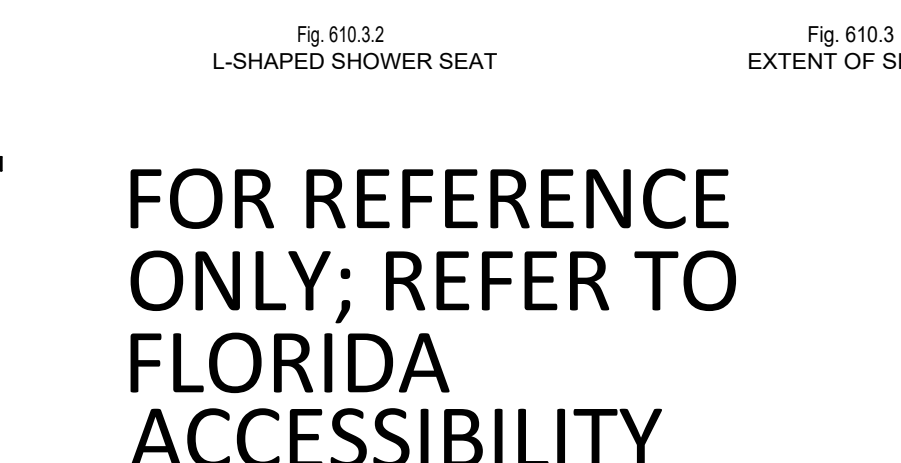
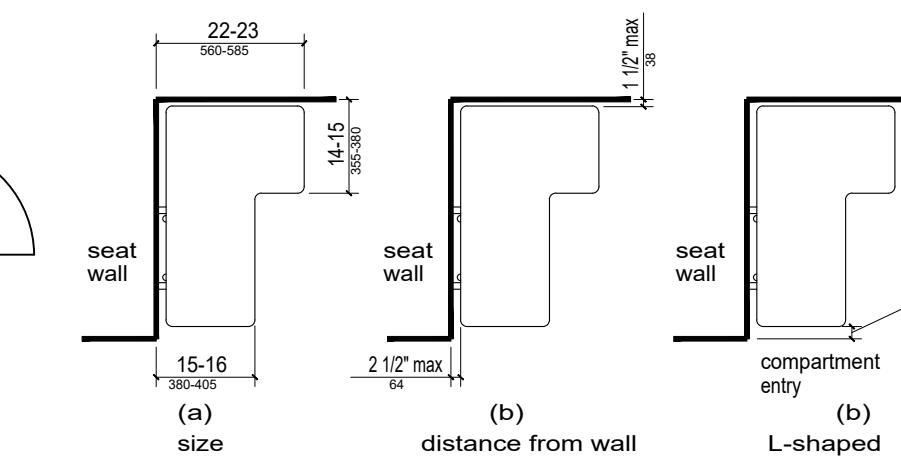
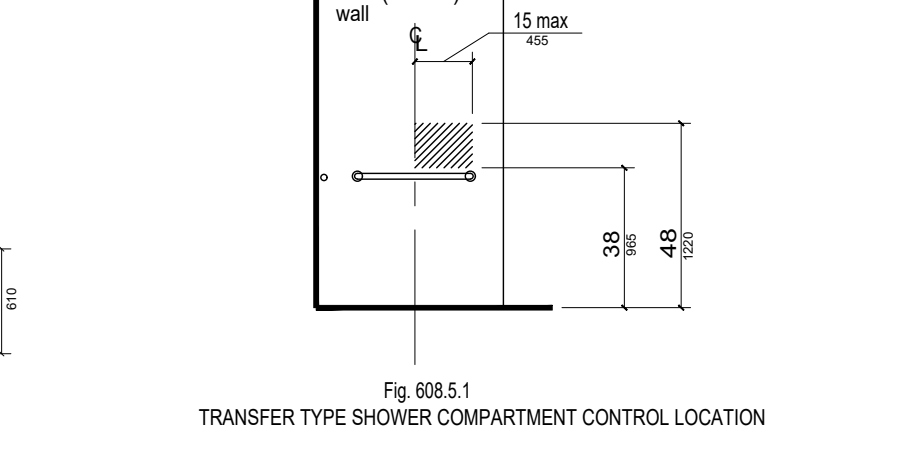
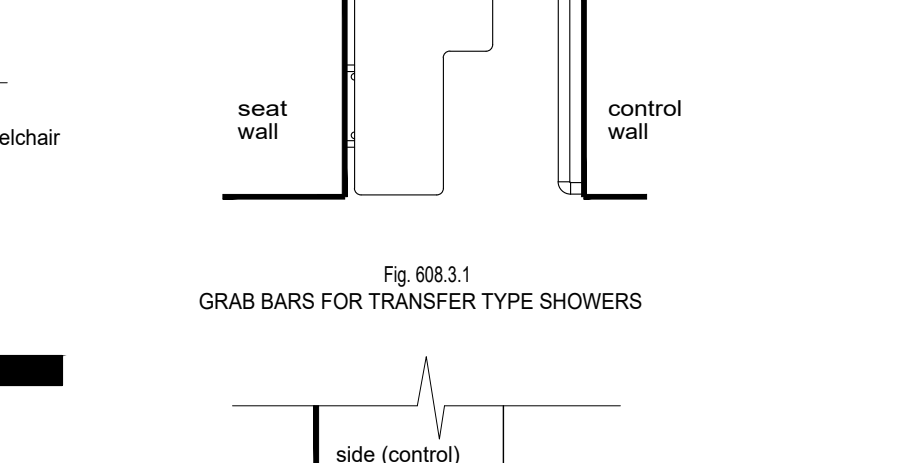
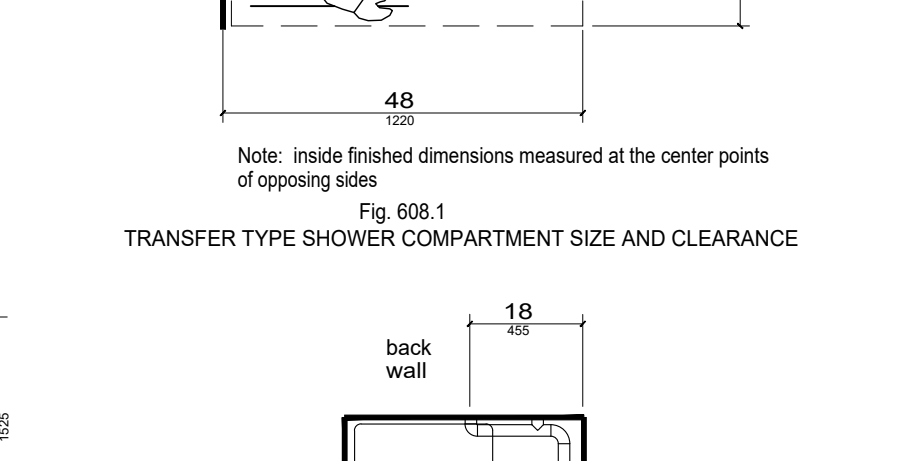
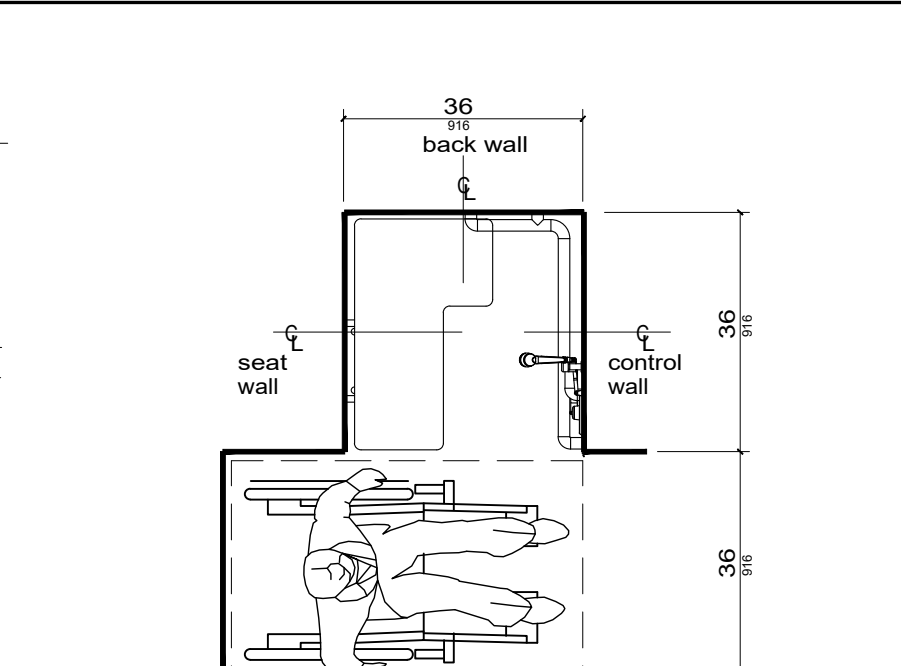
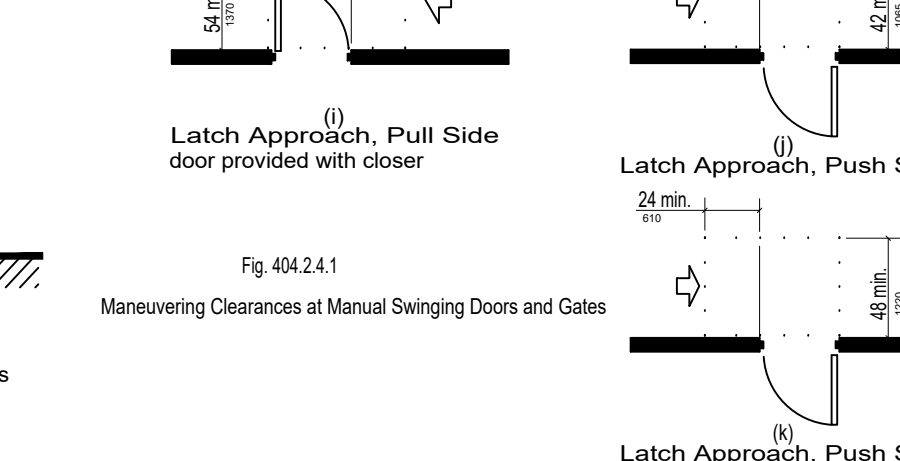
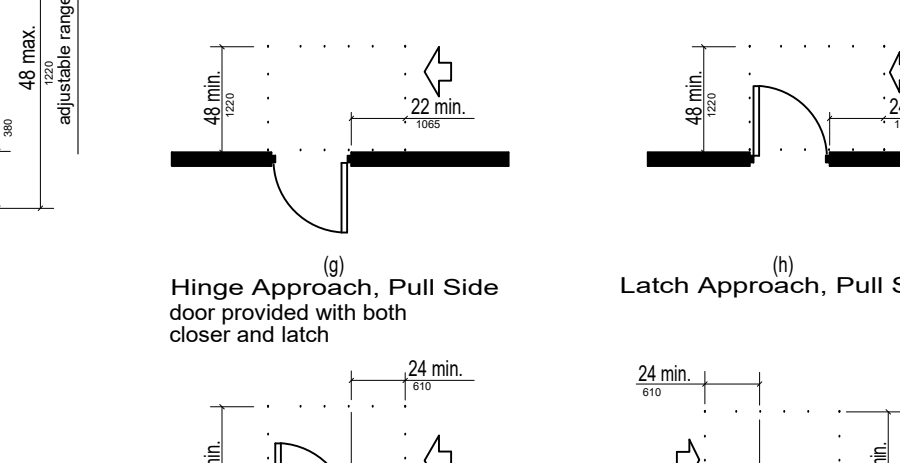
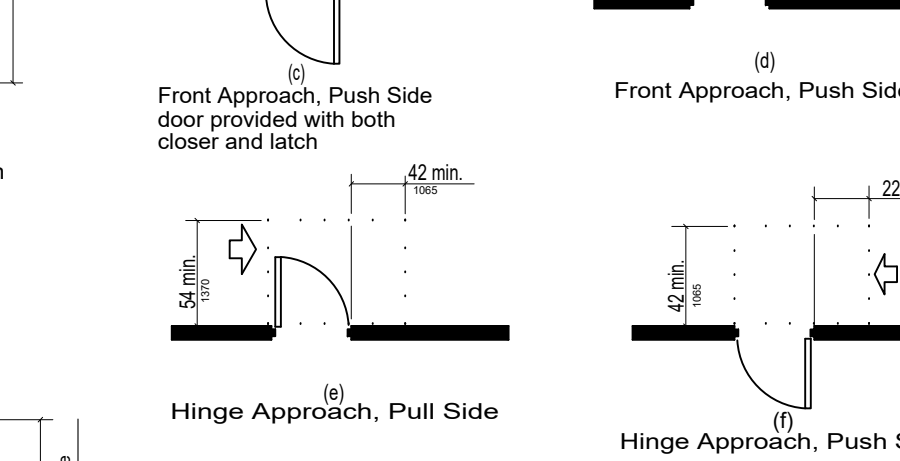
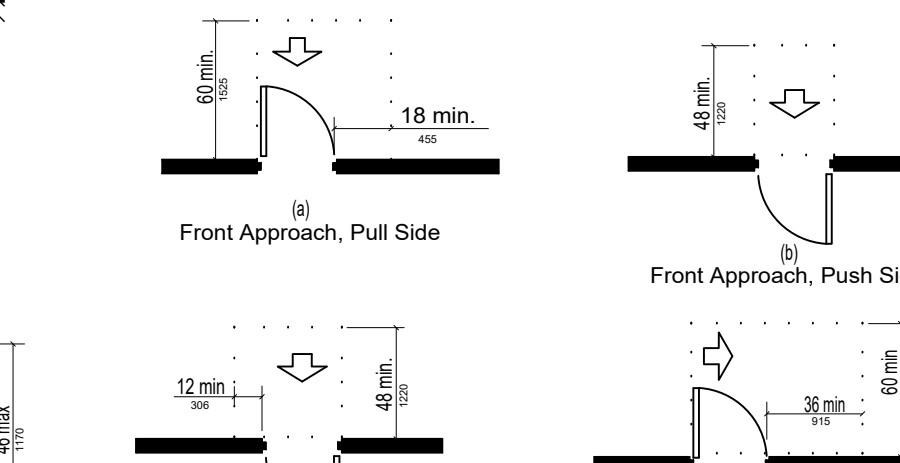
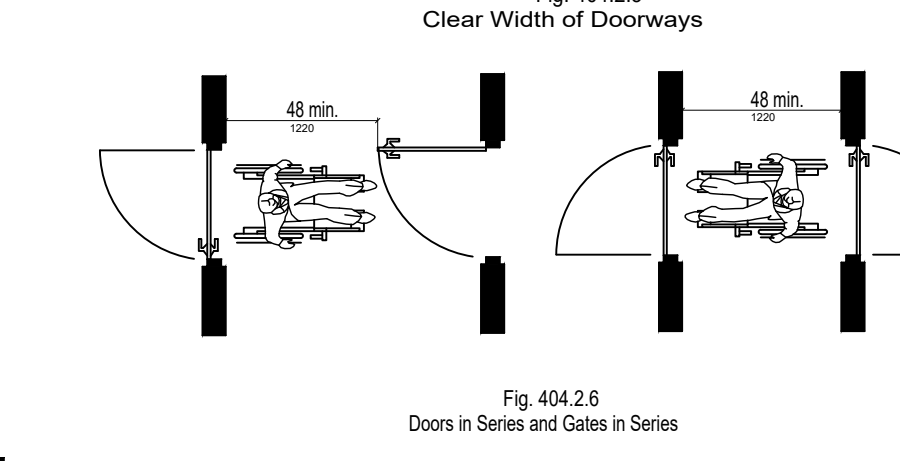
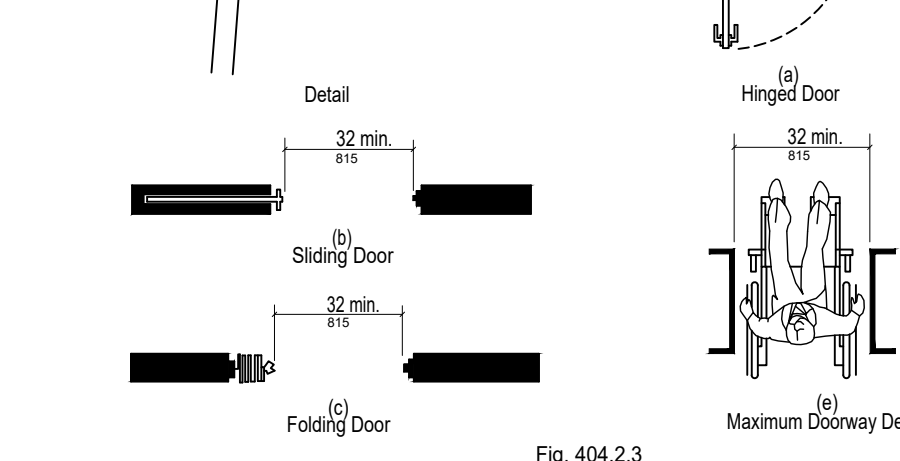
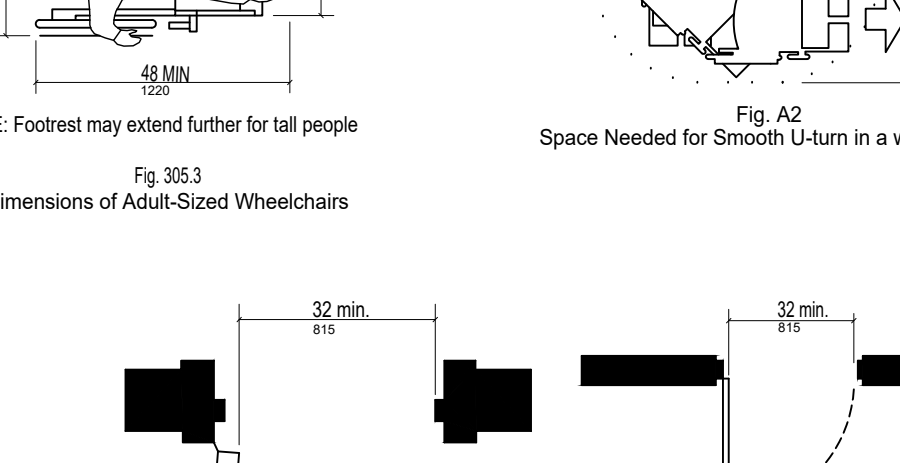
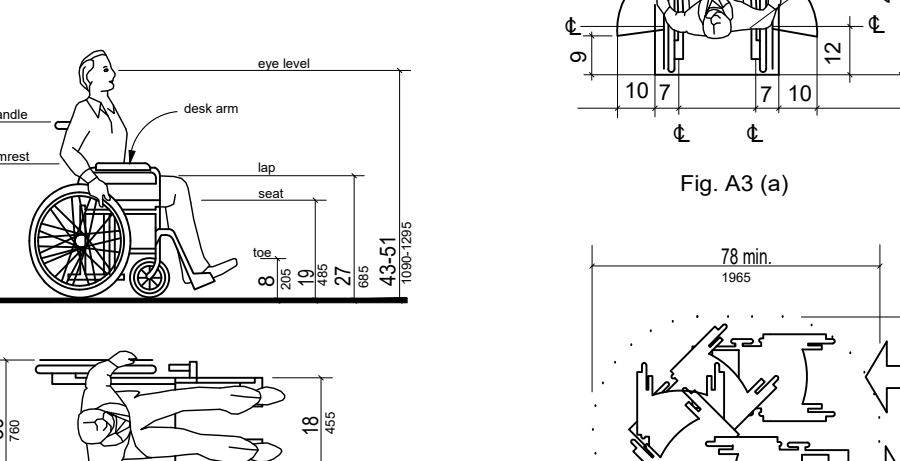
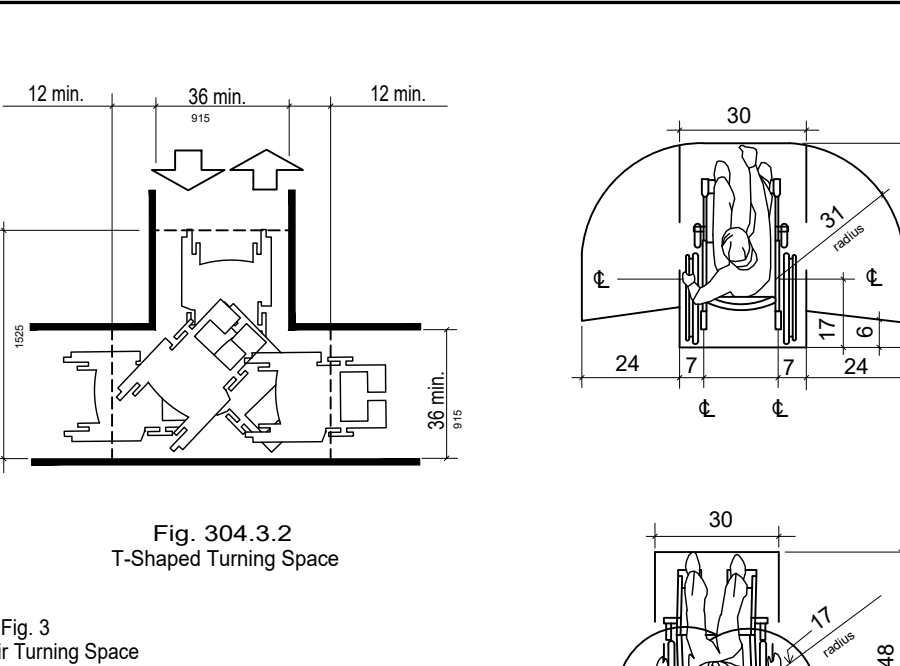
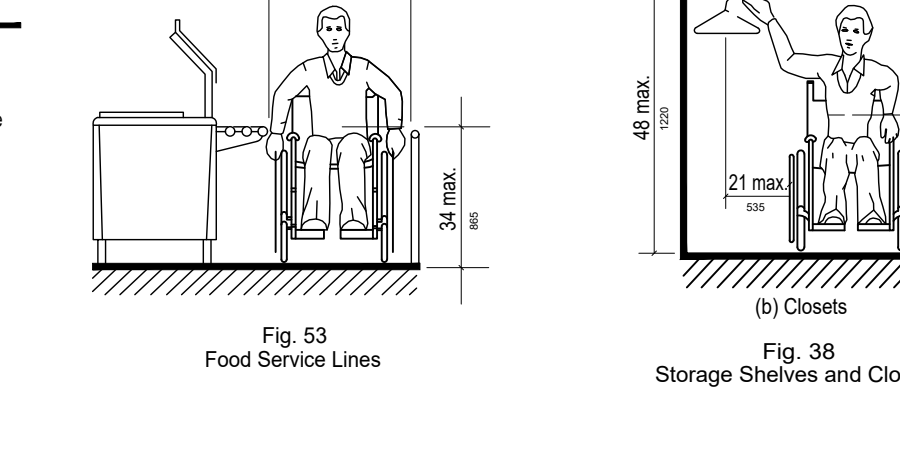
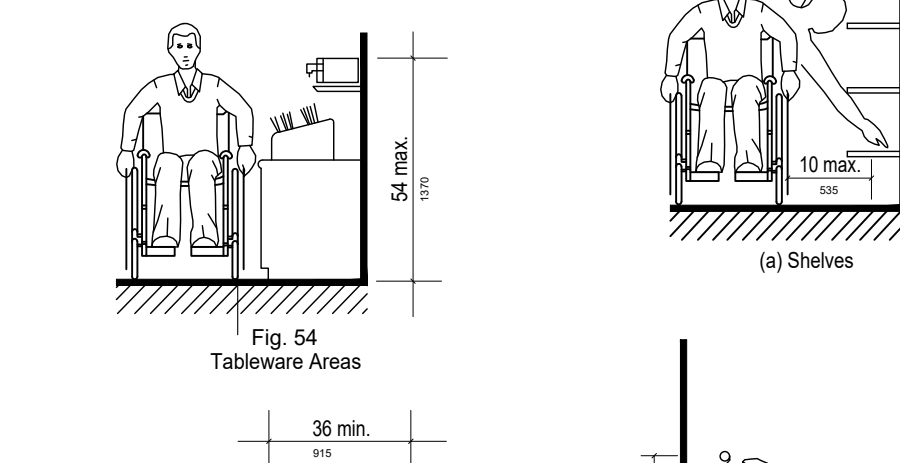
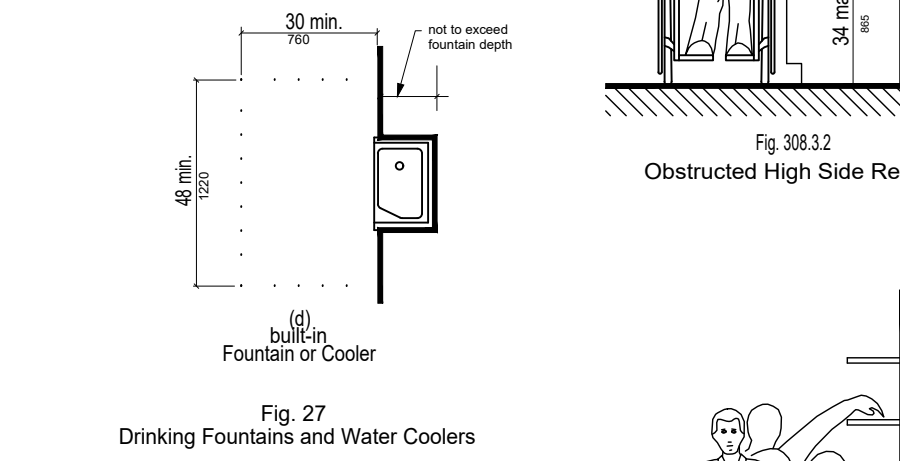
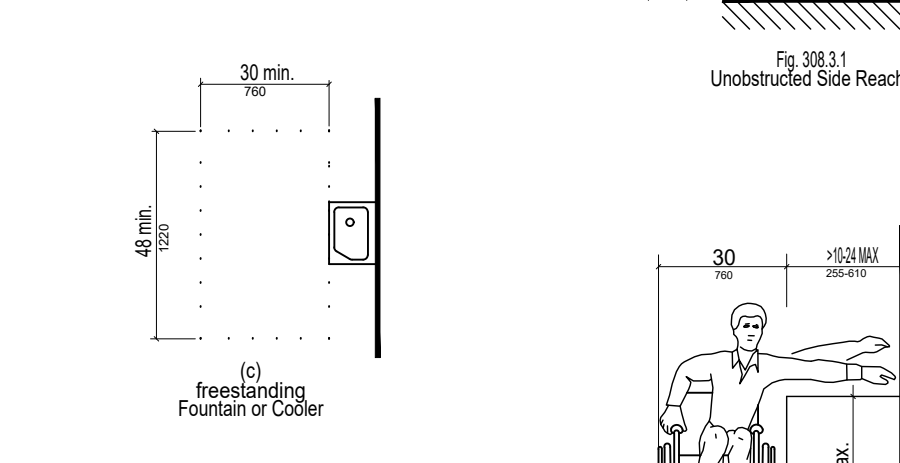
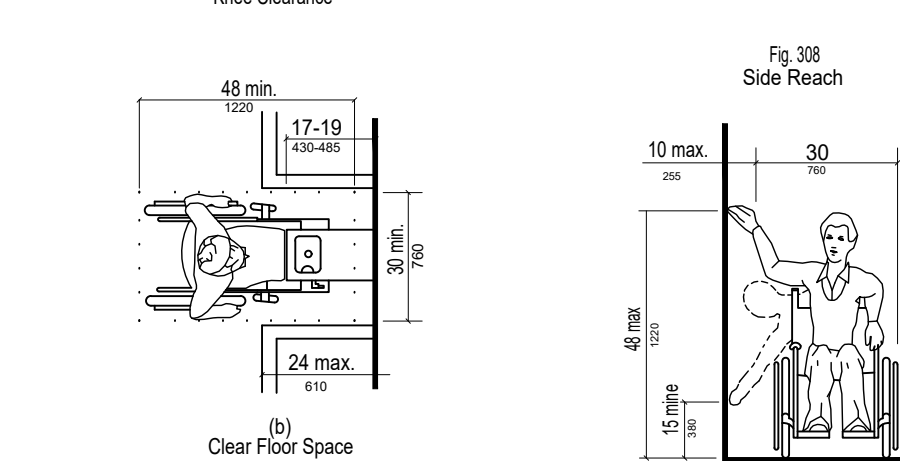
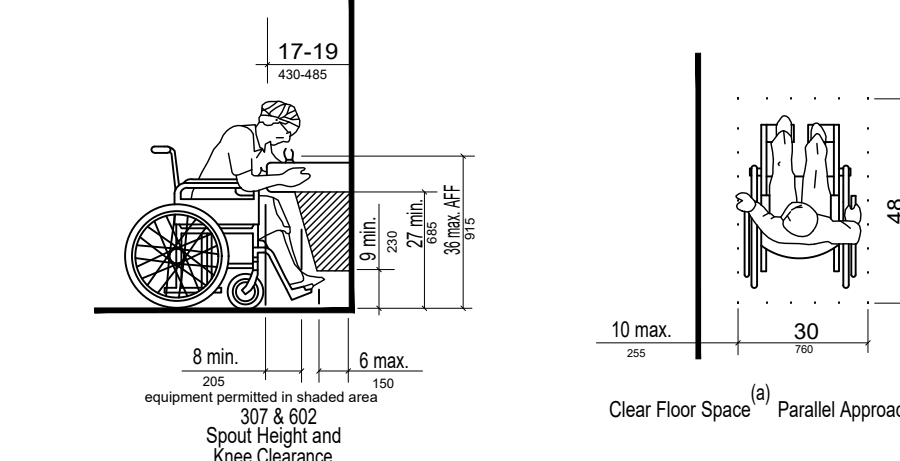
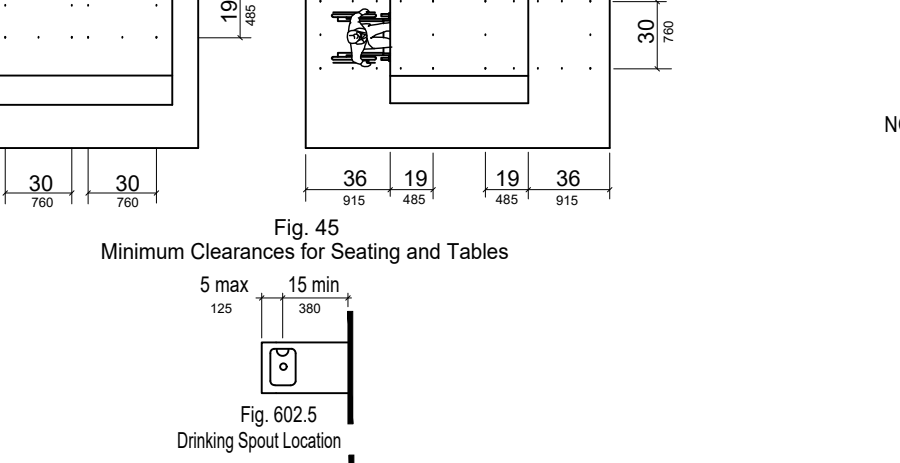
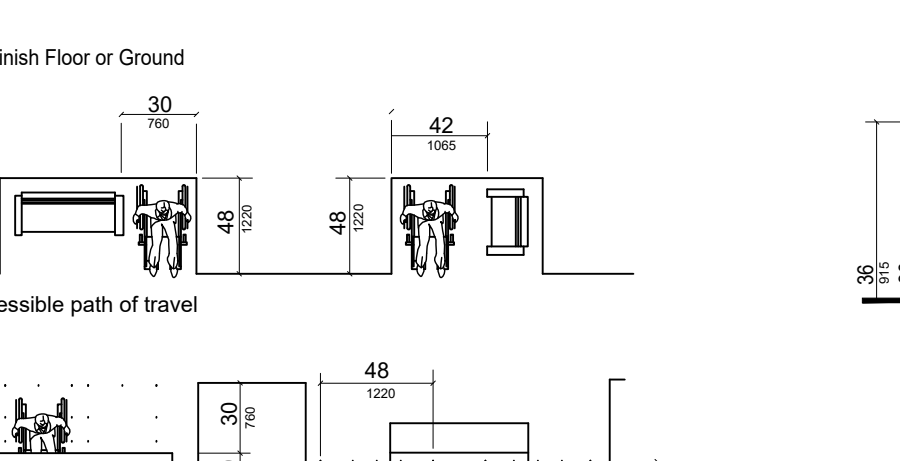
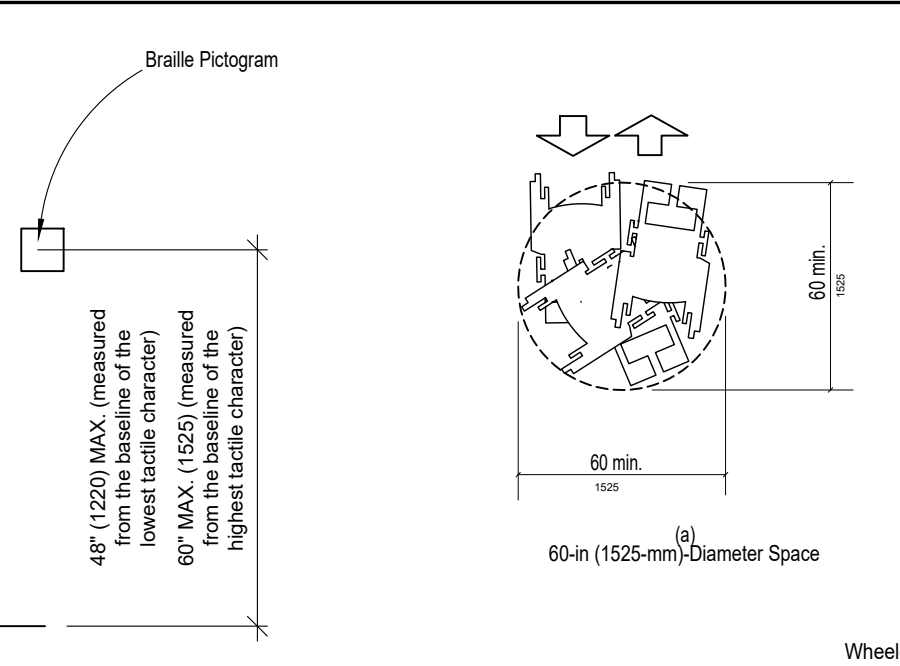
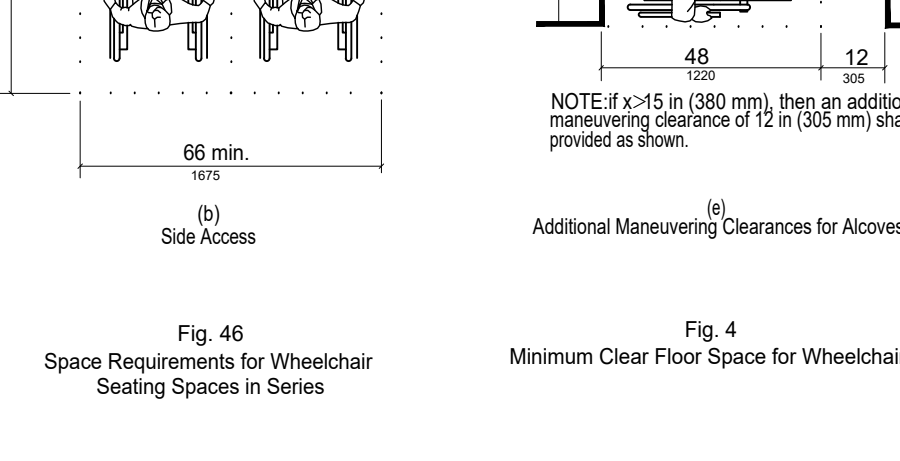
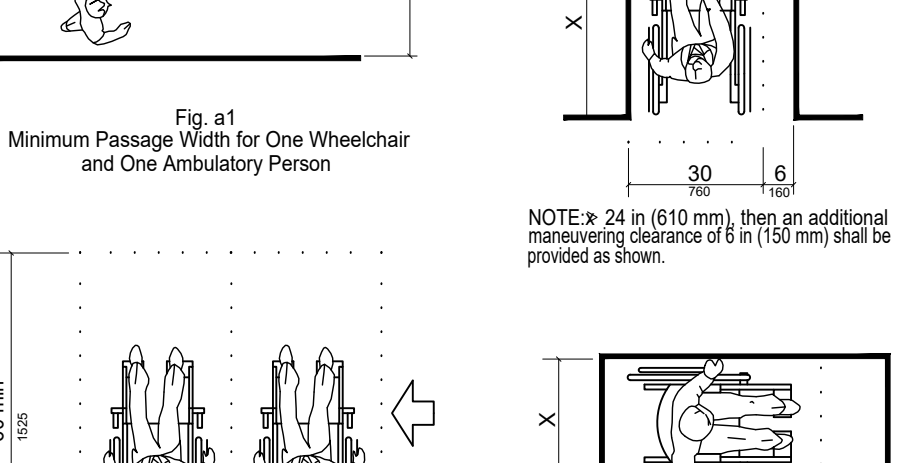
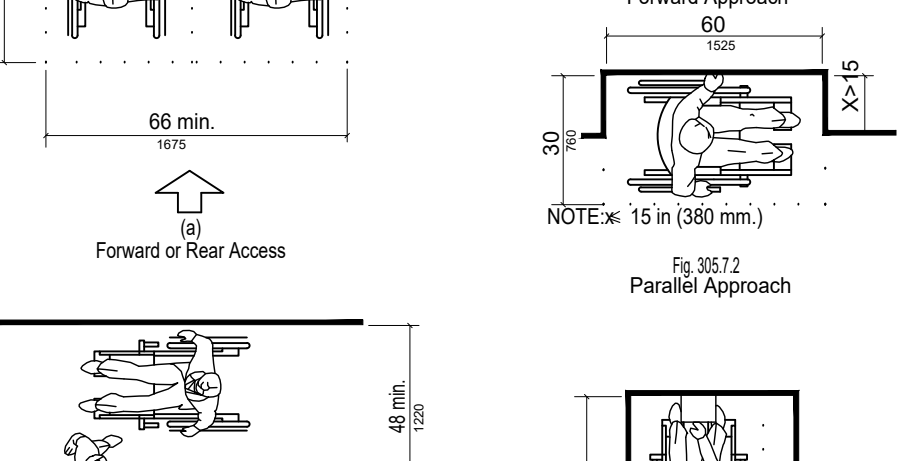
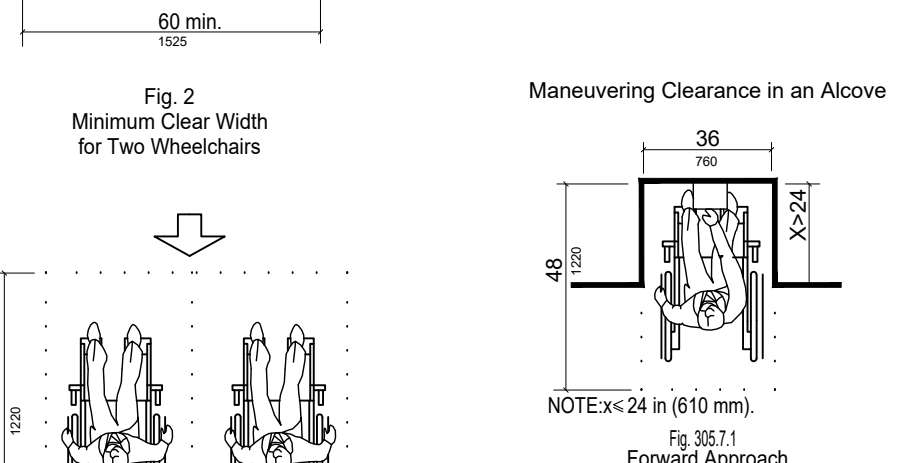
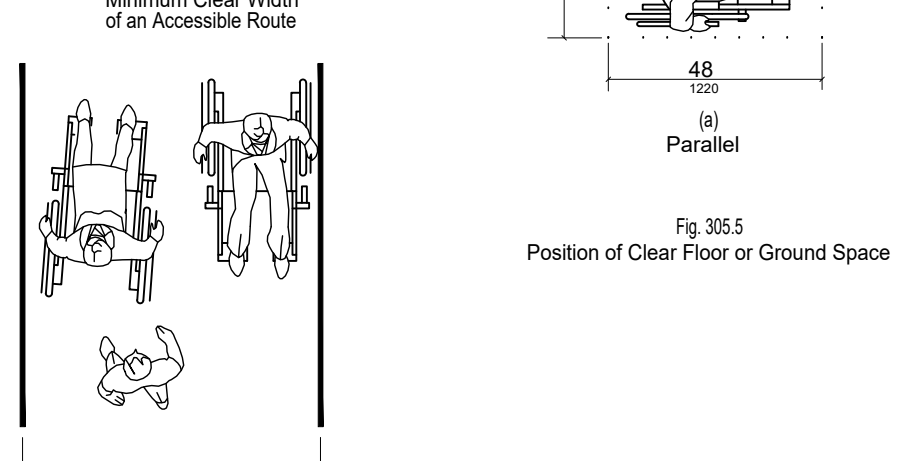
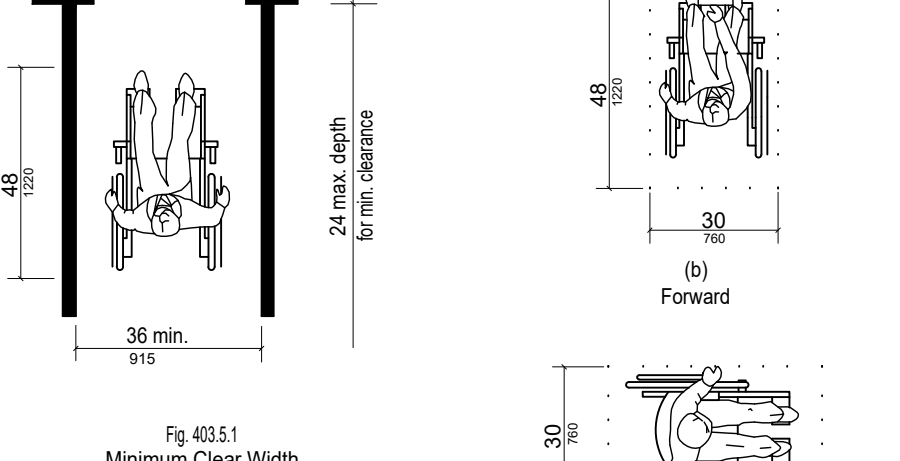
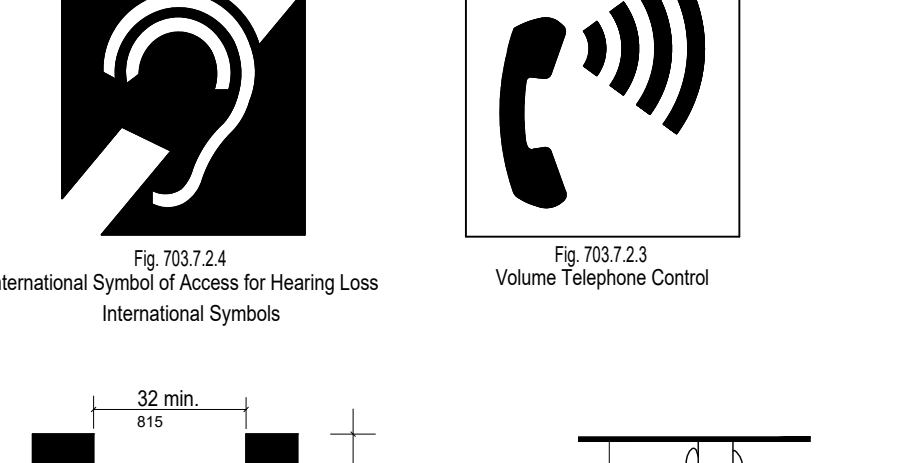
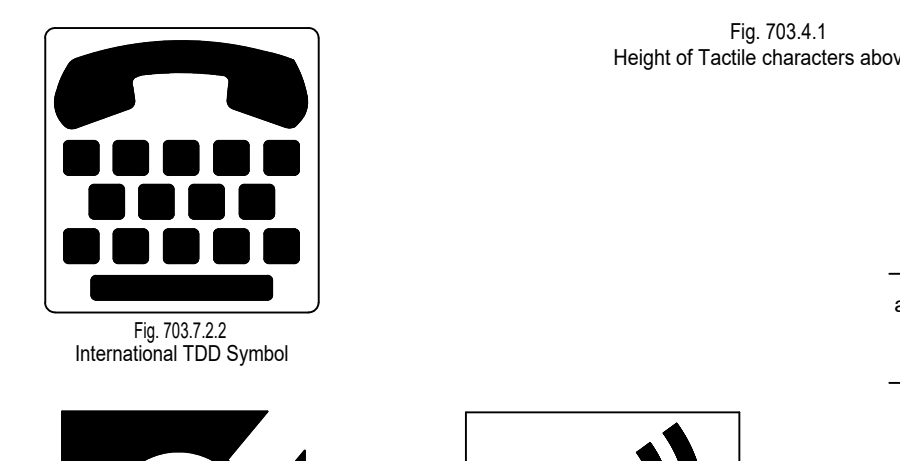
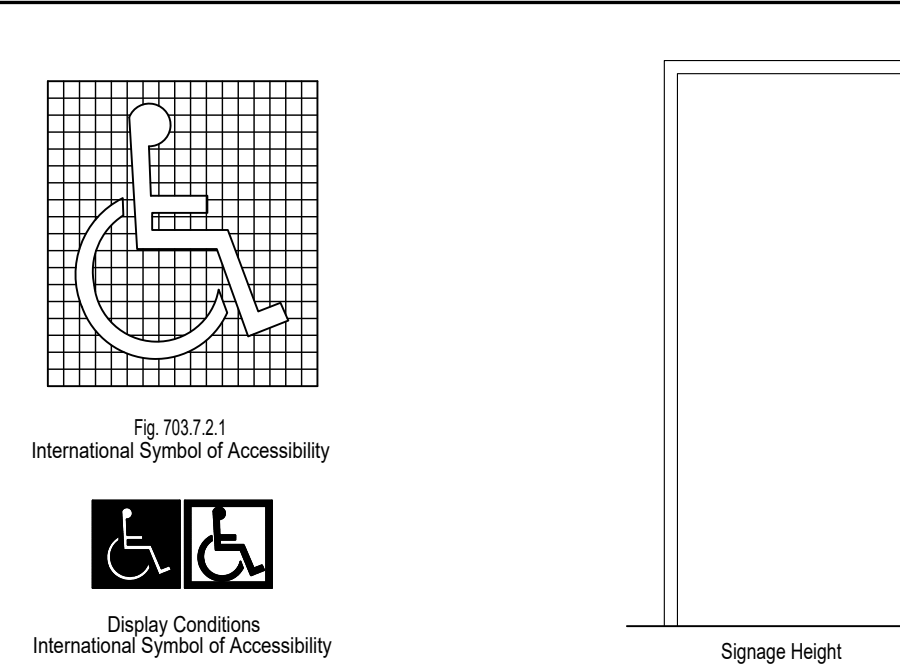
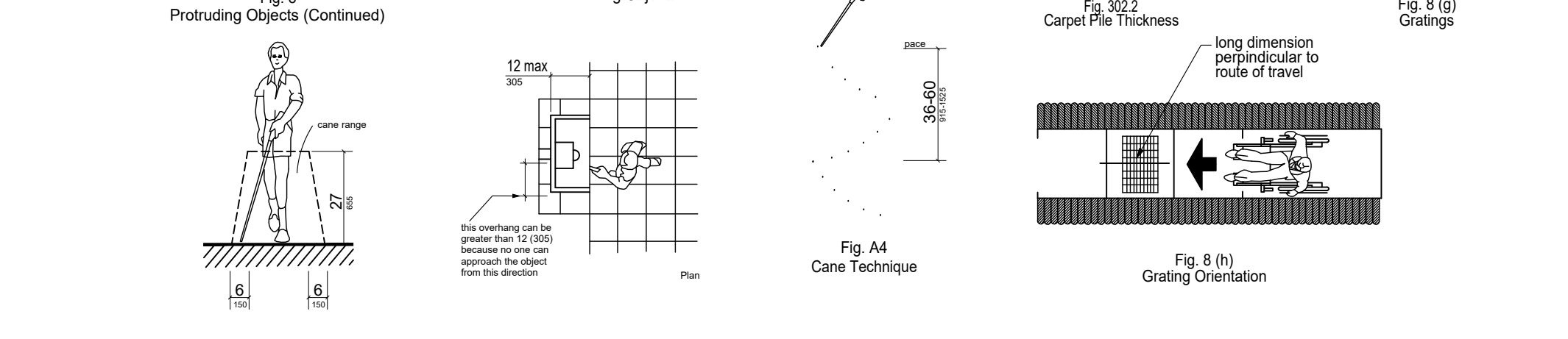
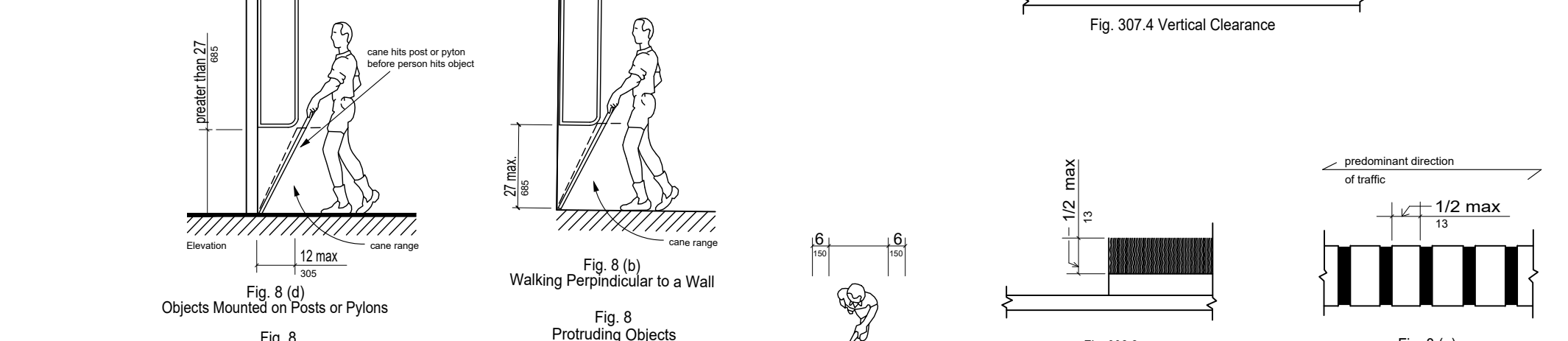
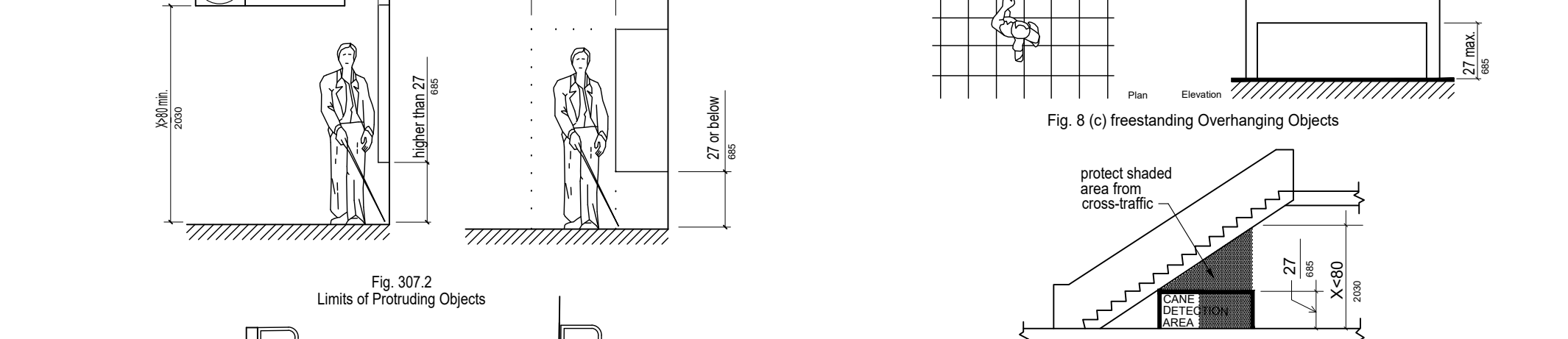
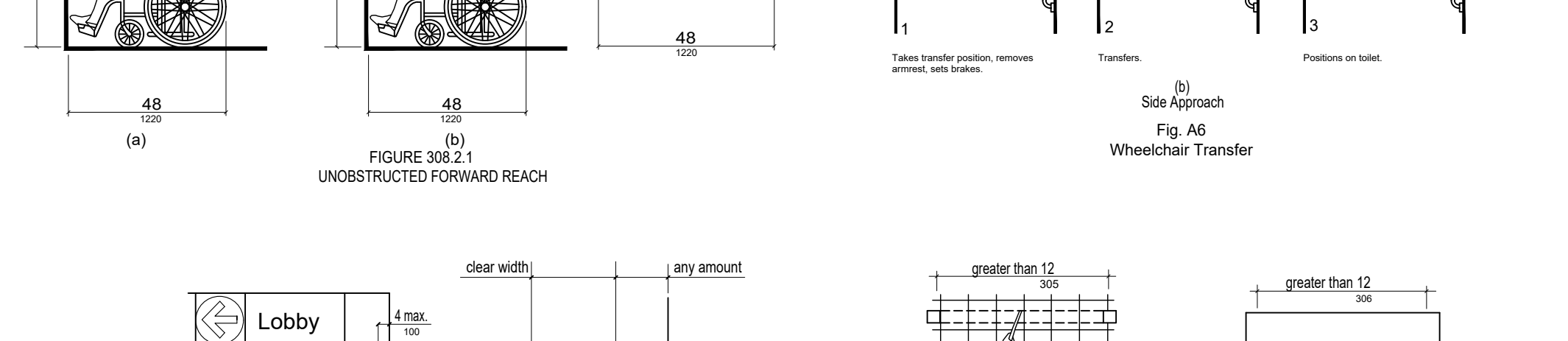
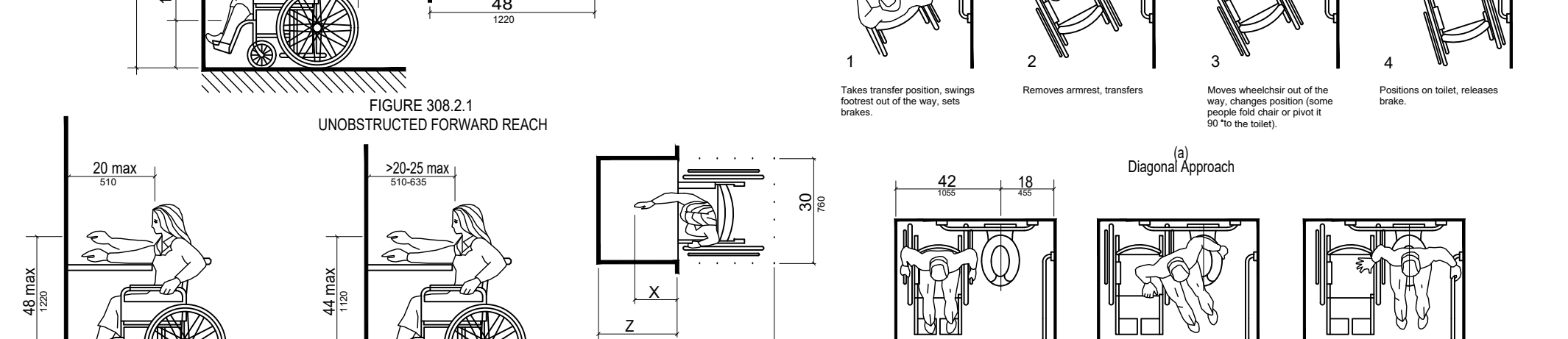
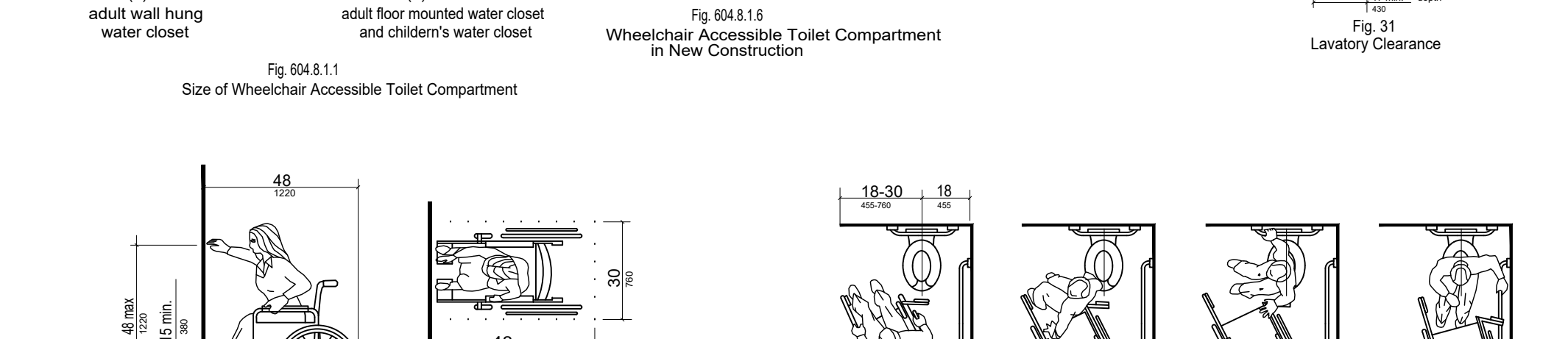
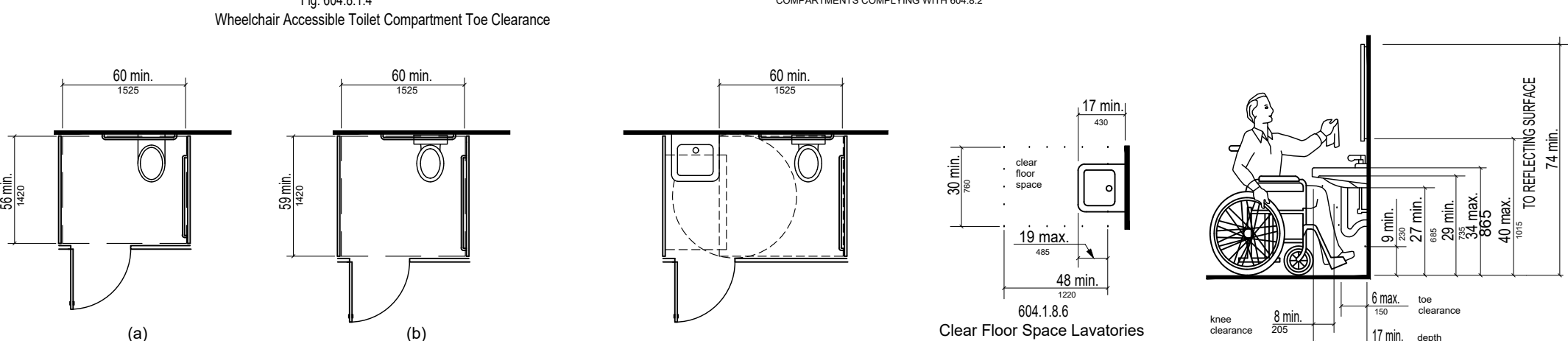
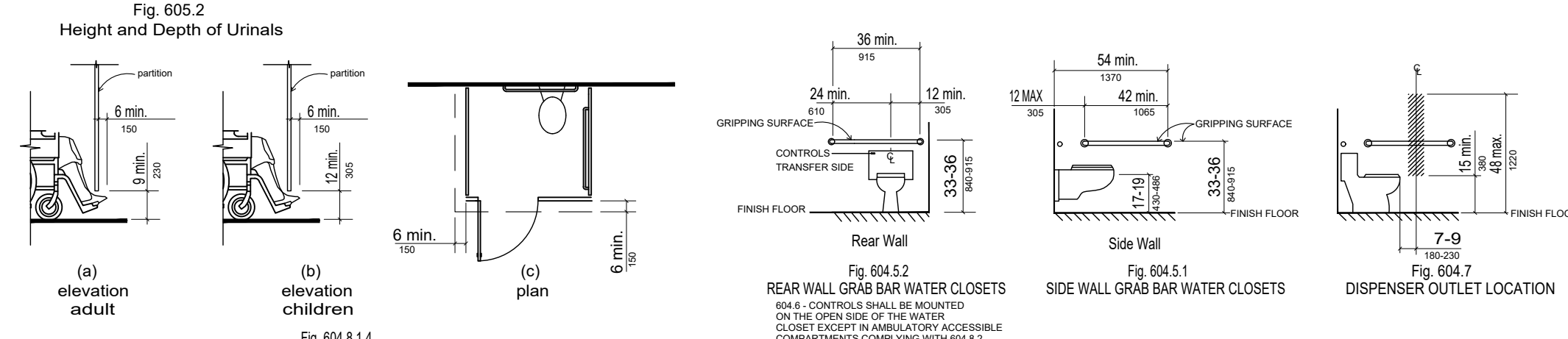
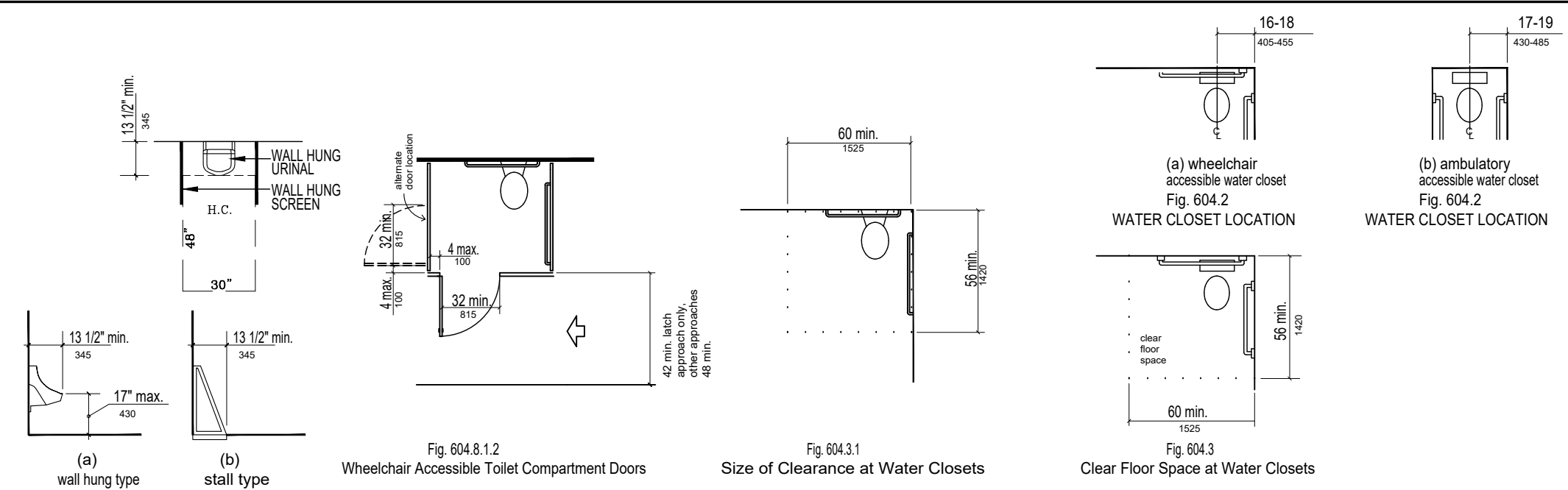
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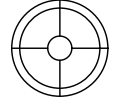

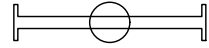
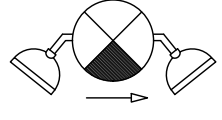
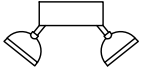













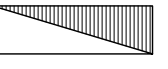
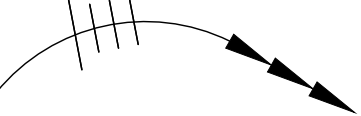
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FOR REFERENCE ONLY; REFER TO FLORIDA ACCESSIBILITY CODE 7th EDITION (2020) FOR BUILDING CONSTRUCTION

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ELECTRICAL LEGEND

	LED PENDANT LIGHT FIXTURE.
	RECESSED LED DOWN LIGHT FIXTURE.
	4' SURFACE MOUNT LED LIGHT FIXTURE.
	COMBINATION EXIT SIGN AND EMERGENCY LIGHT FIXTURE WITH INTEGRAL 90 MINUTE BATTERY AND TEST SWITCH. SHADED SIDE REPRESENTS ILLUMINATED FACE. ARROWS REPRESENT DIRECTIONAL CHEVRONS.
	EMERGENCY LIGHT FIXTURE WITH INTEGRAL 90 MINUTE BATTERY AND TEST SWITCH.
	SINGLE POLE SWITCH
	THREE-WAY TOGGLE SWITCH, 20 AMP, 120/277 VOLT, WITH COVER PLATE.
	SINGLE POLE TOGGLE SWITCH WITH BUILT IN DUAL-TECHNOLOGY OCCUPANCY SENSOR, 20 AMP, 120/277 VOLT, WITH COVER PLATE.
	LOW VOLTAGE TOGGLE SWITCH WITH COVER PLATE. 'LVD' INDICATES LOW VOLTAGE DIMMING.
	48" DUPLEX RECEPTACLE, 20A, 120V, WITH GROUND AND COVER PLATE. NUMBER, IF PROVIDED, REPRESENTS HEIGHT ABOVE FINISHED FLOOR.
	DUPLEX RECEPTACLE, 20A, 120V, WITH GROUND AND COVER PLATE. MOUNT BOTTOM OF RECEPTACLE 6" ABOVE COUNTER OR SINK.
	QUADRUPLEX RECEPTACLE, 20A, 120V, WITH GROUND AND COVER PLATE.
	GFI DUPLEX RECEPTACLE, 20A, 120V, WITH GROUND PLATE. NUMBER.
	GFI DUPLEX RECEPTACLE, 20A, 120V, WITH GROUND AND COVER PLATE. NUMBER. MOUNT BOTTOM OF RECEPTACLE 6" ABOVE COUNTER OR SINK.
	SPECIAL PURPOSE RECEPTACLE WITH GROUND AND COVER PLATE. TAG (IF PROVIDED) INDICATES NEMA RECEPTACLE TYPE.
	DATA OUTLET, AND BACK BOX.
	JUNCTION BOX PER NEC AND SPECIFICATIONS.
	DISCONNECT SWITCH. "30/2/30" REPRESENTS "AMPS/POLES/FUSE SIZE". A FUSE SIZE OF "NF" INDICATES A NON-FUSED DISCONNECT. PROVIDE NEMA 3R ENCLOSURES FOR ALL OUTSIDE DISCONNECTS.
	EXISTING SURFACE MOUNTED OR RECESSED ELECTRICAL PANELBOARD. PANELBOARD. SEE POWER RISER DIAGRAM AND PANEL SCHEDULES FOR MORE INFORMATION.
	WIRE ARC. ARROWS REPRESENT HOMERUNS. HASHMARKS REPRESENT CONDUCTORS (LONG HASHMARK IS NEUTRAL). GROUND CONDUCTOR NOT SHOWN.

PROJECT GENERAL NOTES

- THE ELECTRICAL CONTRACTOR SHALL PROVIDE THE ELECTRICAL PORTION OF THE PROJECT. THIS INCLUDES, BUT IS NOT LIMITED TO: TEMPORARY ELECTRIC SERVICE AND DISTRIBUTION FOR CONSTRUCTION PURPOSES; PERMANENT BUILDING SERVICE ENTRANCE EQUIPMENT AND FEEDER DISTRIBUTION; TRENCH EXCAVATION, PUMPING, BACKFILLING AND COMPACTION FOR ALL UNDERGROUND ELECTRICAL WORK; BUILDING INTERIOR PANELBOARDS AND RELATED FEEDER AND BRANCH CIRCUITS; ELECTRICAL DISCONNECTS, DEVICES, BOXES, SWITCHES, AND LIGHTING FIXTURES; RACKS, PATCH PANELS, CABLING, CONDUITS AND OUTLETS FOR TELEPHONE AND COMPUTER SYSTEMS; AND COORDINATION WITH THE ELECTRIC UTILITY, OTHER CONTRACTORS, THE ARCHITECT AND OWNER.
- FOR THE PURPOSES OF THIS CONTRACT, THE TERM "PROVIDE" SHALL MEAN TO PROVIDE ALL LABOR, MATERIAL, EQUIPMENT, TRANSPORTATION, AND SUPERVISION REQUIRED TO FURNISH AND INSTALL.
- APPLY FOR, OBTAIN, AND PAY FOR ALL REQUIRED PERMITS AND INSPECTION CERTIFICATES, AND PAY FOR ALL FEES ASSOCIATED WITH ESTABLISHING ELECTRIC AND TELEPHONE SERVICE.
- THE NATIONAL ELECTRICAL CODE, NATIONAL ELECTRIC SAFETY CODE, NECA STANDARD OF INSTALLATION, AND FLORIDA BUILDING CODE, EDITIONS ADOPTED BY AHJ, SHALL ESTABLISH THE MINIMUM REQUIREMENTS FOR INSTALLATION, BUT IN ADDITION, ALL WORK SHALL ALSO COMPLY WITH OSHA, STATE, COUNTY, LOCAL OR MUNICIPAL CODE REQUIREMENTS AND THE RULES OF THE LOCAL ELECTRIC UTILITY. IN CASE OF CONFLICTS, CONFORM TO THE MORE STRINGENT REQUIREMENTS. TO THE BEST OF THE ENGINEER'S KNOWLEDGE, THESE PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE MINIMUM BUILDING CODES AND THE APPLICABLE FIRE SAFETY STANDARDS AS DETERMINED BY THE LOCAL AUTHORITY IN ACCORDANCE WITH CHAPTER 553 AND 633 OF THE FLORIDA STATUTES. IN CASES OF CONFLICTS BETWEEN THESE DESIGN DOCUMENTS AND REQUIREMENTS OF ANY OF THE ABOVE CRITERIA, CONTACT THE ENGINEER BEFORE PROCEEDING.
- ALL MATERIALS USED IN THIS PROJECT SHALL BE NEW AND UNDERWRITERS' LABORATORIES (UL) LISTED AND LABELED, UNLESS OTHERWISE NOTED.
- SUBMIT SHOP DRAWINGS, CATALOG SHEETS, OR OTHER DESCRIPTIVE DATA WITH SUFFICIENT INFORMATION TO ESTABLISH DESIGN, QUALITY AND PERFORMANCE. SUBMIT DATA FOR: DISCONNECTS, WIRING DEVICES, WIRE, CONDUIT, LIGHT FIXTURES, TIME SWITCHES, LIGHTING CONTROL PANEL AND SURGE SUPPRESSION DEVICES. PROVIDE SUBMITTALS AS A SINGLE PACKAGE.
- PROVIDE EQUIPMENT NAMEPLATES FOR ALL EQUIPMENT, INCLUDING DISCONNECTS. NAMEPLATES SHALL BE ENGRAVED THREE-LAYER LAMINATED PLASTIC, WHITE LETTERS ON BLACK BACKGROUND. USE 1/8 INCH LETTERS FOR IDENTIFYING INDIVIDUAL EQUIPMENT AND LOADS AND 1/4 INCH LETTERS FOR GROUPED EQUIPMENT AND LOADS. NAMEPLATES FOR SWITCHBOARDS AND PANELBOARDS SHALL INDICATE THE SOURCE OF POWER PER NEC 408.4(B). FOR DEDICATED CIRCUIT POWER OUTLETS, PROVIDE EMBOSSED ADHESIVE TAPE, WITH 1/8 INCH BLACK LETTERS ON CLEAR BACKGROUND. LABEL DEDICATED OUTLETS WITH NAME OF LOAD, PANEL AND CIRCUIT NUMBER. PROVIDE ARC FLASH AND SHOCK HAZARD WARNING LABELS FOR ELECTRICAL EQUIPMENT PER NEC 110.16. ALSO, PROVIDE LABEL WITH AVAILABLE FAULT CURRENT AND DATE FOR SERVICE EQUIPMENT PER THE NEC.
- USE ONLY COPPER BUILDING WIRE WITH TYPE THWN/THHN (DUAL RATED) OR XHHW INSULATION (GROUND WIRES MAY BE TYPE TW FOR CIRCUITS RATED 100A OR LESS OR TYPE THW FOR CIRCUITS OVER 100A). WIRE SHALL BE SIZED AND COLOR CODED PER THE NEC. CONDUCTORS FOR POWER AND LIGHTING CIRCUITS SMALLER THAN #12 AWG ARE NOT PERMITTED.
- ALL CIRCUITS SHALL BE RUN IN CONDUIT AND SHALL CONTAIN SEPARATE GROUNDING CONDUCTOR SIZED PER NEC TABLE 250.122. WITH THE EXCEPTION OF CONDUIT IN AIR PLENUMS, FINAL CONNECTIONS (LESS THAN 6 FEET) TO ALL MOTORS AND OTHER VIBRATING EQUIPMENT SHALL BE MADE WITH LIQUID-TIGHT FLEXIBLE METAL CONDUIT (WITH GROUNDING CONDUCTOR). FLEXIBLE METAL CONDUIT (WITH GROUNDING CONDUCTOR) SHALL ONLY BE USED FOR FINAL CONNECTION (LESS THAN 6 FEET) TO DROP-IN LIGHT FIXTURES. NONMETALLIC FLEX CONDUIT OR TUBING SHALL NOT BE USED. MINIMUM SIZE FOR CONDUIT SHALL BE 1/2". UNLESS NOTED OTHERWISE, ALL CONDUIT SHALL BE CONCEALED. INSTALL ABOVEGROUND CONDUIT PARALLEL OR PERPENDICULAR TO BUILDING LINES. PROVIDE PULLWIRE FOR ALL EMPTY CONDUITS.
- TYPE MC CABLE SHALL ONLY BE USED FOR 15 AND 20A, 120V BRANCH CIRCUITS COMPLETELY CONCEALED IN WALLS. HOME RUNS TO PANEL FOR THESE CIRCUITS SHALL BE IN CONDUIT.
- FOR EMT CONDUIT, MAXIMUM SIZE SHALL BE 2 INCHES. EMT CONDUIT SHALL NOT BE USED BELOW GRADE, OUTSIDE, IN CONCRETE, WHERE EXPOSED TO DAMAGE, OR FOR EXPOSED WORK IN AREAS WITHIN 8 FEET OF FLOOR. PROVIDE STEEL COMPRESSION TYPE FITTINGS.
- PVC CONDUIT SHALL ONLY BE USED IN THE GROUND OR CONCRETE SLAB AND SHALL BE SCHEDULE 40. ALL ELLS TURNING UP OUT OF THE EARTH OR CONCRETE SLAB SHALL BE ASPHALTUM OR PVC COATED RIGID GALVANIZED STEEL CONDUIT.
- SEE PANEL SCHEDULES SHEET E4 FOR SIZE OF ALL CONDUCTORS AND CONDUIT.
- NO MORE THAN 3 PHASE CONDUCTORS (ON ALTERNATING HOT LEGS) SHALL BE COMBINED IN ONE HOMERUN CONDUIT. WITH THE EXCEPTION OF CIRCUITS FOR SYSTEMS FURNITURE, PROVIDE A DEDICATED FULLSIZE NEUTRAL FOR CIRCUITS REQUIRING A NEUTRAL.
- EXCEPT AS NOTED OTHERWISE, ALL ELECTRICAL DEVICE AND JUNCTION BOXES SHALL BE MADE OF GALVANIZED STEEL. BOXES FOR WEATHERPROOF AND WATERTIGHT APPLICATIONS OR IN CONCRETE SHALL BE MADE OF CAST METAL. PROVIDE PULLBOXES AND HANDHOLES AS NECESSARY FOR THE CIRCUITS SHOWN.
- WITH THE EXCEPTION OF DEVICES ABOVE COUNTERS, MOUNT RECEPTACLES AND DATA OUTLETS 18" A.F.F. (TO CENTER OF OUTLET) UNLESS NOTED OTHERWISE. MOUNT SWITCHES AT NO MORE THAN 47" A.F.F. (TO TOP OF SWITCH HANDLE) UNLESS NOTED OTHERWISE. IF THERE ARE OBSTRUCTIONS (I.E. A SERVICE COUNTER), MOUNT SWITCHES AT NO MORE THAN 44" A.F.F. (TO TOP OF SWITCH HANDLE). SEE SECTION 308 OF THE ADA STANDARDS FOR ACCESSIBLE DESIGN FOR MORE INFORMATION. CONFORM TO ALL AMERICANS WITH DISABILITY ACT (ADA) REQUIREMENTS.
- PENETRATE ANY FIRE RATED WALLS, CEILINGS, AND FLOORS WITH FIRE STOPPING MATERIALS IN ACCORDANCE WITH FLORIDA BUILDING CODE REQUIREMENTS. PENETRATIONS OF ALL FIRE RATED ASSEMBLIES SHALL BE MADE IN ACCORDANCE WITH THE FIRE RATED ASSEMBLY'S UL LISTING, AS APPROVED BY THE AUTHORITY HAVING JURISDICTION. SEE ARCHITECTURAL DRAWINGS FOR LOCATIONS OF ANY FIRE WALLS, CEILINGS, AND FLOORS.
- UNLESS NOTED OTHERWISE, ALL MOTORS, INTEGRAL STARTERS, CONTROL AND MONITORING DEVICES (INCLUDING WIRE AND CONDUIT FOR CONTROL CIRCUITS), TIMERS, RELAYS, PILOT DEVICES AND OTHER REQUIRED CONTROL COMPONENTS FOR MECHANICAL SYSTEMS WILL BE FURNISHED AND INSTALLED BY THE MECHANICAL CONTRACTOR.
- UNLESS NOTED OTHERWISE, MAKE POWER WIRING CONNECTIONS TO ALL WATER HEATERS, PUMPS, MACHINERY, APPLIANCES, WATER COOLERS, HVAC EQUIPMENT AND OTHER ELECTRICALLY-OPERATED EQUIPMENT AS INDICATED OR AS REQUIRED. FURNISH AND INSTALL DISCONNECT SWITCHES, STARTERS AND PROTECTIVE DEVICES AS INDICATED ON THE DRAWINGS, EXCEPT FOR ITEMS FURNISHED WITH INTEGRAL DISCONNECT SWITCHES AND/OR STARTERS (SEE MECHANICAL AND PLUMBING SCHEDULES).
- DRAWINGS ARE INTENDED TO BE DIAGRAMMATIC ONLY. REVIEW ARCHITECTURAL, CIVIL, MECHANICAL, AND PLUMBING DRAWINGS AND COORDINATE WITH OTHER CONTRACTORS TO CONFIRM EXACT LOCATION FOR LIGHTING FIXTURES, ELECTRICAL DEVICES, WIRING AND EQUIPMENT AND AVOID INTERFERENCES BETWEEN RACEWAYS, DUCTS, PIPING, AND STRUCTURAL MEMBERS. RELOCATE EQUIPMENT AS NECESSARY TO MAINTAIN NEC WORKING AND DEDICATED EQUIPMENT SPACE REQUIREMENTS.
- CONTRACTOR SHALL CONFORM WITH ALL OSHA STANDARDS AND NFPA 70E, STANDARD FOR ELECTRICAL SAFETY IN THE WORKPLACE, REQUIREMENTS FOR ELECTRICAL SAFETY, INCLUDING PROPER LOCK-OUT / TAG-OUT PROCEDURES AND WEARING APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT (PPE). CONTRACTOR'S EMPLOYEES SHALL HAVE RECEIVED NFPA 70E ARC FLASH TRAINING.
- CONFIRM WITH THE GENERAL CONTRACTOR THAT NO ASBESTOS, LEAD PAINT, OR OTHER HAZARDOUS MATERIALS EXIST IN THE BUILDING BEFORE STARTING WORK. IF ANY SUSPICIOUS MATERIAL AREA FOUND DURING DEMOLITION, STOP WORK IMMEDIATELY AND CONTACT GENERAL CONTRACTOR.
- THE ABOVE NOTES APPLY TO ALL ELECTRICAL DRAWINGS.

DEMOLITION NOTES

- REMOVE AND PROPERLY DISPOSE OF ALL EXISTING ELECTRICAL EQUIPMENT, LIGHT FIXTURES, WIRE, AND CONDUIT IN THE EXISTING FACILITY UNLESS NOTED OTHERWISE. REMOVE ALL EXPOSED CONDUIT AND WIRES. FOR CONDUIT IN WALLS AND ABOVE CEILINGS, REMOVE WIRE TO SOURCE AND CAP. CUT CONDUIT PENETRATING WALLS AND CEILINGS FLUSH WITH SURFACE AND PATCH AND FINISH TO MATCH SURROUNDING AREAS. SEE ARCHITECTURAL DEMOLITION DRAWINGS FOR MORE INFORMATION.
- CONFIRM WITH GENERAL CONTRACTOR AND OWNER THAT NO ASBESTOS, LEAD PAINT, OR OTHER HAZARDOUS MATERIALS EXIST IN THE BUILDING BEFORE STARTING WORK. IF ANY SUSPICIOUS MATERIALS ARE FOUND DURING DEMOLITION, STOP WORK IMMEDIATELY AND CONTACT GENERAL CONTRACTOR.
- CONTRACTOR SHALL VISIT SITE TO FAMILIARIZE WITH EXISTING CONDITIONS PRIOR TO SUBMITTING BID.

ABBREVIATIONS

AFB	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AHJ	AUTHORITY HAVING JURISDICTION
AHU	AIR HANDLING UNIT
CRI	COLOR RENDERING INDEX
CU	CONDENSING UNIT
EWC	ELECTRIC WATER COOLER
GC	GENERAL CONTRACTOR
GFI	GROUND FAULT CIRCUIT INTERRUPT
GRS	GALVANIZED RIGID STEEL
NIC	NOT IN CONTRACT
NL	NIGHTLIGHT
OSP	OUTSIDE PLANT
RL	RELOCATED
RTU	ROOF TOP UNIT
TRT	TRIPLE TUBE
TYP.	TYPICAL
UNO	UNLESS NOTED OTHERWISE
UP	UNDERGROUND PRIMARY
US	UNDERGROUND SECONDARY
WP	WEATHER PROOF (& GFI)

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BUILDING REMODEL

**ZIMMERMAN
BUILDING**

6125 & 6127 BEACH BOULEVARD
JACKSONVILLE, FLORIDA 32216

SHEET TITLE: ELECTRICAL LEGEND & PROJECT GENERAL NOTES

NO.	REVISION	
	DATE	

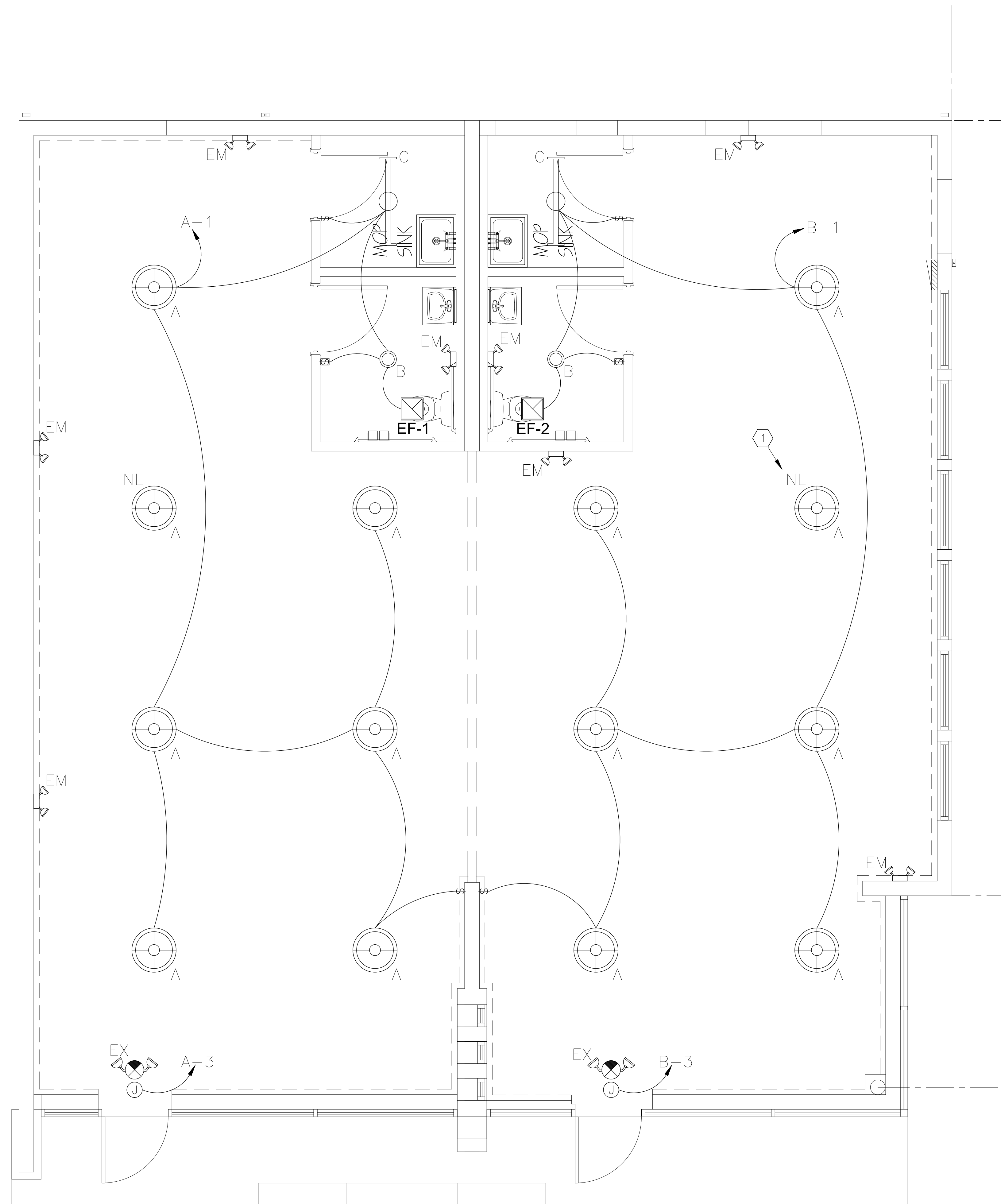
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SHEET

E-1



LIGHTING PLAN

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



GENERAL NOTES

- SOME JUNCTION BOXES AND FLEX CONDUIT NOT SHOWN FOR CLARITY. PROVIDE JUNCTION BOXES AND FLEX CONDUIT AT FIXTURES WHERE APPROPRIATE.
- SWITCHES WHICH ARE BACK-TO-BACK ON COMMON WALLS SHALL BE OFFSET 6" MINIMUM TO AVOID SOUND TRANSMISSION.
- PROVIDE POWER TO ALL EMERGENCY DRIVERS BUILT INTO LIGHT FIXTURES, STANDALONE EMERGENCY LIGHT FIXTURES AND EXIT SIGNS AHEAD OF ANY SWITCHING ON THE SAME BRANCH CIRCUIT AS NORMAL LIGHTING FOR AREA SERVED.
- WITH THE EXCEPTION OF AREAS CONTROLLED BY THE USE OF TIME CLOCKS, EQUIPMENT ROOMS, STAIRWELLS, AND ANY OTHER AREA WHERE SUDDEN LOSS OF LIGHT COULD CAUSE A SAFETY CONCERN, PROVIDE OCCUPANCY SENSORS IN ALL SPACES IN ACCORDANCE WITH THE 2020 FLORIDA ENERGY CODE TO SATISFY THE REQUIREMENT FOR AUTOMATIC LIGHTING CONTROLS.
- ALL LIGHT FIXTURE DRIVERS SHALL HAVE AN "A" SOUND RATING.
- SUPPORT FIXTURES (2 X 4 FOOT AND SMALLER) TO BE RECESSED IN REMOVABLE TILE CEILINGS (LAY-IN TYPE) FROM THE T-BAR TILE SUPPORT AND CONNECT TO REMOTE MOUNTED 4" SQUARE (MINIMUM SIZE, CONFORM TO NEC) JUNCTION BOXES WITH APPROVED SIX FOOT LONG, 3/8" FLEXIBLE CONDUIT "FIXTURE WHIP" WITH GROUNDING CONDUCTOR BONDED BETWEEN CONDUIT SYSTEM AND FIXTURE.
- PROVIDE ALL REQUIRED HARDWARE AS NECESSARY TO PROPERLY INSTALL LIGHT FIXTURES.
- PROVIDE INSULATED CEILING (I.C.) RATED FIXTURES WHERE RECESSED INCANDESCENT, COMPACT FLUORESCENT, OR LOW VOLTAGE LIGHT FIXTURES COME INTO DIRECT CONTACT WITH INSULATION. PROVIDE U.L. FIRE RATED LIGHT FIXTURES FOR FIRE RATED CEILINGS.
- COORDINATE LOCATION OF LIGHT FIXTURES WITH OTHER TRADES PRIOR TO INSTALLATION.
- IMPORTANT NOTE: FIXTURE LOCATIONS AND QUANTITIES SHOWN ARE AS REQUIRED TO MEET 2020 FLORIDA BUILDING CODE REQUIREMENTS FOR WATTS PER SQUARE FOOT. TASK LIGHTING MAY BE REQUIRED TO MEET MINIMUM RECOMMENDED ILLUMINATION LEVELS PER IES STANDARDS.
- IMPORTANT NOTE: CONTRACTOR SHALL PROVIDE LIGHTING FUNCTIONALITY TEST PER THE 2020 FLORIDA ENERGY CODE C408.3 FROM AN APPROVED PARTY, DOCUMENTS CERTIFYING THE LIGHTING CONTROLS MEETS THE PERFORMANCE CRITERIA OF SECTION 405 ARE TO BE PROVIDED TO THE BUILDING OWNER WITHIN 90 DAYS FROM THE DATE OF THE CERTIFICATE OF OCCUPANCY.
- THE ABOVE NOTES APPLY TO ALL LIGHTING SHEETS.

KEY NOTES

- NIGHT LIGHT FIXTURE, ALL FIXTURES LABELED 'NL' SHALL BE POWERED FROM AN UNSWITCHED CIRCUIT AND REMAIN ON 24 HOURS PER DAY (TYP.).

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SHEET TITLE: LIGHTING PLAN

NO. DATE REVISION

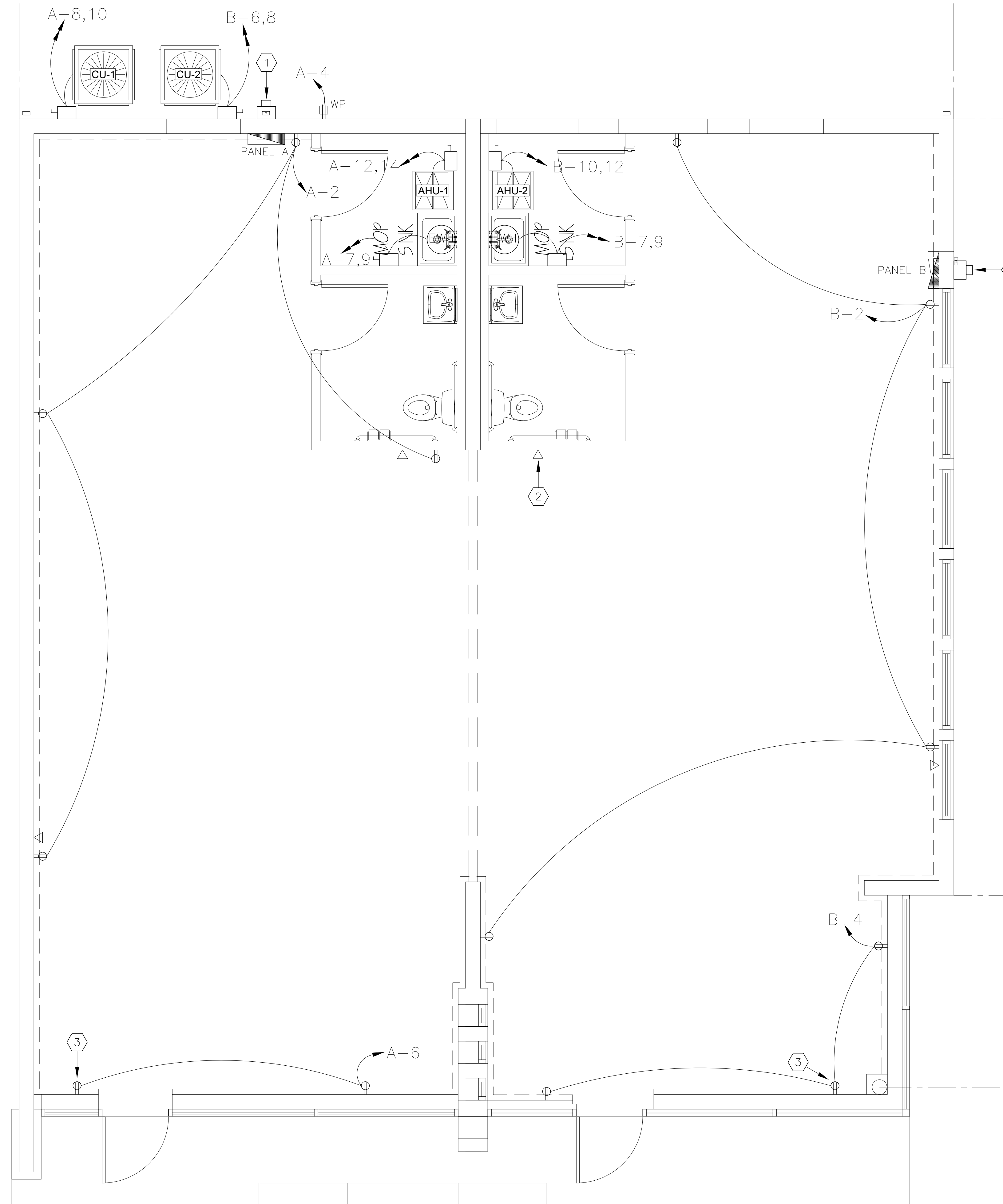
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SHEET

E-2



POWER PLAN
SCALE: 3/8"=1'-0"



GENERAL NOTES

1. SIZE OF DISCONNECTS, FUSES, CIRCUIT BREAKERS, WIRING AND CONDUIT FOR HVAC AND OTHER MECHANICAL EQUIPMENT IS BASED ON THE MECHANICAL BASIS OF DESIGN. IF THE ELECTRICAL DATA VARIES FROM MECHANICAL SCHEDULES, RESIZE THE RELATED ELECTRICAL COMPONENTS PER THE NEC AND MANUFACTURER'S RECOMMENDATIONS AND SUBMIT FOR APPROVAL.
2. PROVIDE HEATING, AIR CONDITIONING, AND REFRIGERATION (HACR) RATED CIRCUIT BREAKERS FOR ALL CONDENSING UNITS AND AIR HANDLING UNITS.
3. RECEPTACLES WHICH ARE BACK-TO-BACK ON A COMMON WALL SHALL BE OFFSET 6" MINIMUM TO AVOID SOUND TRANSMISSION.
4. CONFIRM LOCATION, MOUNTING HEIGHT, AND ELECTRICAL REQUIREMENTS FOR ALL SPECIAL PURPOSE AND DEDICATED OUTLETS WITH OWNER. CONFIRM EXACT LOCATION FOR OUTLETS NEAR CABINETS WITH ARCHITECTURAL INTERIOR ELEVATIONS AND CABINET PROVIDER. ALSO, CONFIRM LOCATION AND MOUNTING HEIGHT OF ALL PHONE AND DATA OUTLETS WITH OWNER.
5. SAFETY SWITCHES SHALL BE HEAVY DUTY, FUSED OR NON-FUSED AS INDICATED, QUICK-MAKE AND QUICK-BREAK, HORSEPOWER RATED, MINIMUM RATING 250 OR 600 VOLTS A.C., AS APPROPRIATE.
6. THE ABOVE NOTES APPLY TO ALL POWER SHEETS.

KEY NOTES ⬡

1. EXISTING INCOMING SERVICE METER. SEE POWER RISER DIAGRAM FOR MORE INFORMATION.
2. PROVIDE DATA OUTLET, BACK BOX, AND CONDUIT WITH PULLSTRING. STUB UP CONDUIT ABOVE CEILING (TYP. FOR ALL DATA OUTLETS). SEE DATA RISER DETAIL ON SHEET E-6 FOR MORE INFORMATION.
3. SHOW WINDOW RECEPTACLES SHALL BE MOUNTED 6" ABOVE STORE FRONT GLASS. (TYP. OF 5)

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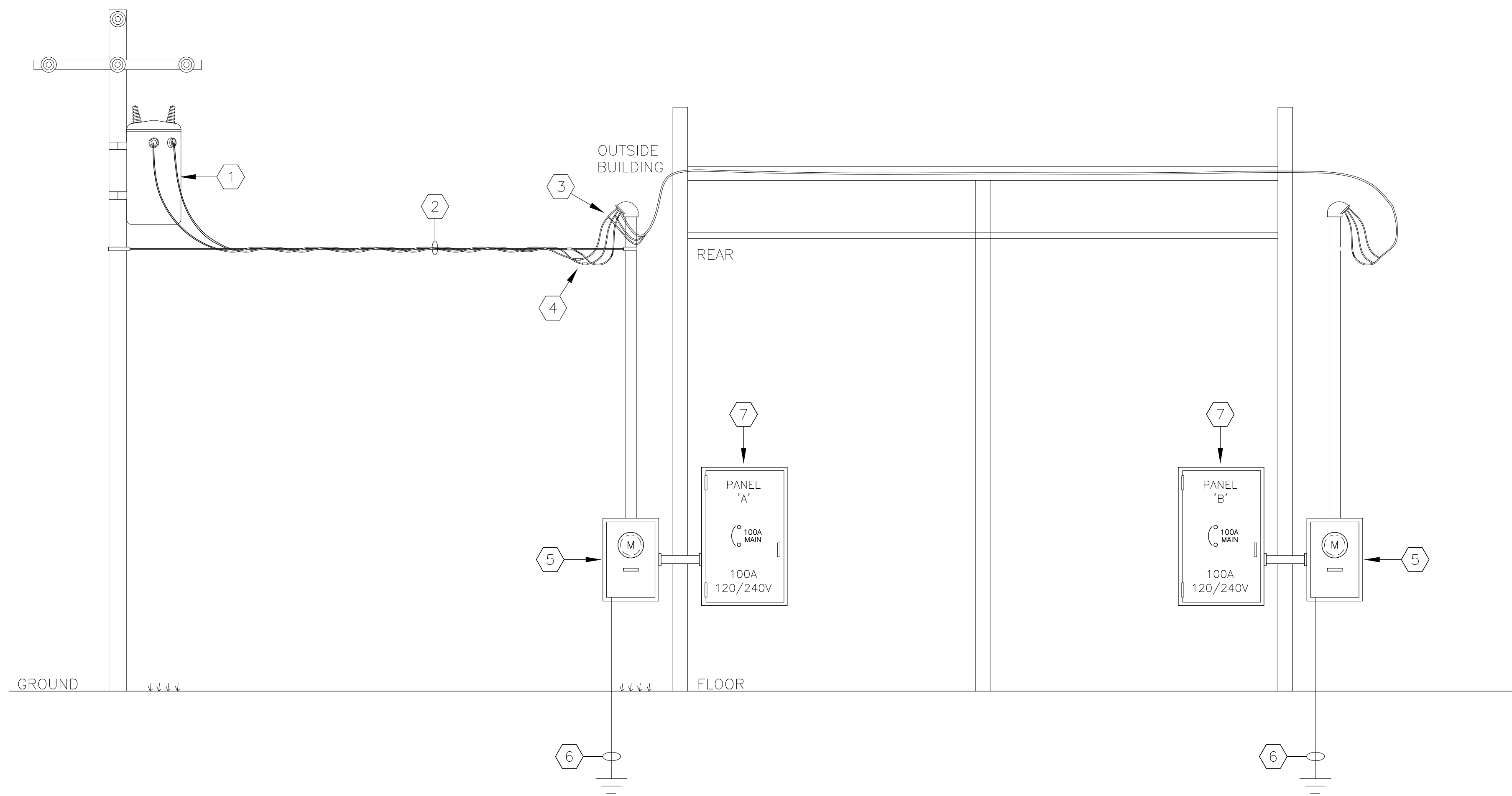
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SHEET
E-3

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POWER RISER DIAGRAM

SCALE: NTS

GENERAL NOTES:

1. UNDERGROUND CONDUIT MAY BE SCHEDULE 40 PVC (VERSUS GRS). TRANSITIONS TO ABOVEGROUND SHALL BE MADE WITH PVC COATED RIGID STEEL OR WITH RIGID STEEL CONDUIT COATED WITH 2 COATS OF ASPHALTIC MASTIC. THIS NOTE APPLIES TO ALL CONDUITS SHOWN ON THIS RISER DIAGRAM.

KEY NOTES

1. EXISTING PRIMARY RISER POLE AND POLE MOUNTED TRANSFORMER TO REMAIN.
2. EXISTING 120/240V SINGLE PHASE, OVERHEAD SERVICE DROP FROM EXISTING POLE MOUNTED TRANSFORMER TO BUILDING TO REMAIN.
3. EXISTING U.L. LISTED WEATHERHEAD AND 3" RGS CONDUIT MAST TO ENCLOSED CIRCUIT BREAKER TO REMAIN.
4. EXISTING POINT OF CONNECTION FOR ELECTRICAL SERVICE TO REMAIN.
5. EXISTING SERVICE RATED ENCLOSED CIRCUIT BREAKER AND METER CENTER TO REMAIN.
6. THE ELECTRICAL CONTRACTOR SHALL CONFIRM THAT THE GROUNDING ELECTRODE CONDUCTOR MEETS THE RECOMMENDED RESISTANCE PER THE NATIONAL ELECTRIC CODE.
7. PROVIDE NEW SINGLE PHASE, 3 WIRE PANELBOARD. SEE ELECTRICAL SCHEDULES FOR MORE INFORMATION.

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SHEET

E-4

LIGHTING FIXTURE SCHEDULE										
MARK	MANUF.	CATALOG NUMBER	LAMPS		VOLT.	MOUNTING	WATTS	NOTES	DESCRIPTION / INSTALLATION	
			NO.	TYPE						
A	BROWNLEE	2680-20-WH-R49-WH-CC3-BLC-40K		LED CRI 80+ 4000K (4000 LUMENS)	MVOLT	SUSPENDED	49 W		SUSPENDED LED LIGHT FIXTURE WITH 0-10V DIMMABLE DRIVER.	
EM	LITHONIA	ELM2L-SDRT			MVOLT	SURFACE	4 W		EMERGENCY LIGHT	
EX	LITHONIA	LHQM-LED-B-R-HO-SD		LED	MVOLT	SURFACE	6 W		COMBINATION EXIT SIGN/EMERGENCY LIGHT WITH SELF-DIAGNOSTIC AND 90 MINUTE BATTERY BACKUP.	

NOTES:

- UNLESS INDICATED OTHERWISE, MANUFACTURERS AND CATALOG NUMBERS LISTED IN LIGHTING FIXTURE SCHEDULE ARE INTENDED TO ESTABLISH STANDARDS OF DESIRED DESIGN OR QUALITY AND SHALL BE THE BASIS OF BID. NO SUBSTITUTIONS WILL BE CONSIDERED PRIOR TO BID. THE SUCCESSFUL CONTRACTOR SHALL PROVIDE SUBMITTALS WITH PHOTOMETRICS AND DETAILED SPECIFICATION SHEETS AND ACCEPT TOTAL RESPONSIBILITY FOR PROVIDING FIXTURES OTHER THAN THE SPECIFIED PRODUCTS. SAMPLES MAY BE REQUESTED PRIOR TO REVIEW.
- SEE ARCHITECTURAL ELEVATIONS FOR MOUNTING HEIGHTS FOR WALL MOUNTED FIXTURES.
- CONFIRM FIXTURE COLORS WITH OWNER.
- FOR RECESSED CAN LIGHTS, IF LIGHT FIXTURE IS TOUCHING INSULATION, MODIFY CATALOG NUMBER SHOWN ABOVE AS NECESSARY TO PROVIDE INSULATED CEILING (I.C.) RATED LIGHT FIXTURE OR PROVIDE NECESSARY PROTECTION FROM INSULATION, PER AHJ.
- MODIFY CATALOG NUMBER AS NECESSARY FOR ALL RECESSED FIXTURES IN AREAS WITH HARD CEILINGS.
- NOTES THAT DO NOT APPEAR IN NOTES COLUMN OF THE SCHEDULE APPLY TO ALL FIXTURE TYPES.

LOCATION: REAR
FED BY: SERVICE

TYPE: SURFACE MOUNT, NEMA 1
MAIN CB: 100A FRAME: 100A
VOLTAGE: 120/ 240 VOLTS 1 PH, 3 WIRE

BUS RATING: 100A
TYPE: BOLT-ON
MINIMUM AIC: 22K

NO.	DEVICE	BRANCH CIRCUIT				PHASE LOAD (KVA)				BRANCH CIRCUIT				DEVICE			
		AMPS TRIP	POLES	WIRE	GRND	COND. (IN)	SERVING	A	B	A	B	SERVING	COND. (IN)	GRND	WIRE	POLES	AMPS TRIP
1	20	1	12	12	1/2	LIGHTS*	0.5		0.8		RECP, GENERAL PURPOSE	1/2	12	12	1	20	2
3	20	1	12	12	1/2	SIGN*		1.5		0.2	RECP, EXTERIOR	1/2	12	12	1	20	4
5	20	1				SPARE				1.5	RECP, SHOW WINDOW	1/2	12	12	1	20	6
7	20	1	12	12	1/2	EVH		1.5		1.7	CU-2	3/4	10	10	2	30	8
9						" "		1.5			" "						10
11										2.8	AHU-2	3/4	10	10	2	30	12
13										2.8	" "						14
15																	16
17																	18
19																	20
21																	22
23																	24
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37																	38
39																	40
41																	42

NOTE:
*CIRCUIT VIA TIME CLOCK. TIME CLOCK SHALL MEET REQUIREMENTS PER 2020 FLORIDA ENERGY CODE.

TOTAL CONNECTED LOAD: 16.4 KVA
TOTAL DEMAND LOAD: 17.7 KVA

LOCATION: REAR
FED BY: SERVICE

TYPE: SURFACE MOUNT, NEMA 1
MAIN CB: 100A FRAME: 100A
VOLTAGE: 120/ 240 VOLTS 1 PH, 3 WIRE

BUS RATING: 100A
TYPE: BOLT-ON
MINIMUM AIC: 22K

NO.	DEVICE	BRANCH CIRCUIT				PHASE LOAD (KVA)				BRANCH CIRCUIT				DEVICE			
		AMPS TRIP	POLES	WIRE	GRND	COND. (IN)	SERVING	A	B	A	B	SERVING	COND. (IN)	GRND	WIRE	POLES	AMPS TRIP
1	20	1	12	12	1/2	LIGHTS*	0.5		0.8		RECP, GENERAL PURPOSE	1/2	12	12	1	20	2
3	20	1	12	12	1/2	SIGN*		1.5		1.5	RECP, SHOW WINDOW	1/2	12	12	1	20	4
5	20	1				SPARE				1.7	CU-2	3/4	10	10	2	30	6
7	20	1	12	12	1/2	EVH		1.5		1.7	" "						8
9						" "		1.5		2.8	AHU-2	3/4	10	10	2	30	10
11										2.8	" "						12
13																	14
15																	16
17																	18
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41																	42

NOTE:
*CIRCUIT VIA TIME CLOCK. TIME CLOCK SHALL MEET REQUIREMENTS PER 2020 FLORIDA ENERGY CODE.

TOTAL CONNECTED LOAD: 16.2 KVA
TOTAL DEMAND LOAD: 17.5 KVA

GENERAL NOTES

- ELECTRICAL CONTRACTOR SHALL CONFIRM CIRCUIT SIZE AND ELECTRICAL REQUIREMENTS FOR ALL MECHANICAL AND HVAC EQUIPMENT WITH PROVIDER.
- FOR ADDITIONAL MECHANICAL EQUIPMENT INFORMATION AND LOCATIONS, SEE MECHANICAL DRAWINGS.

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SHEET TITLE: ELECTRICAL SCHEDULES

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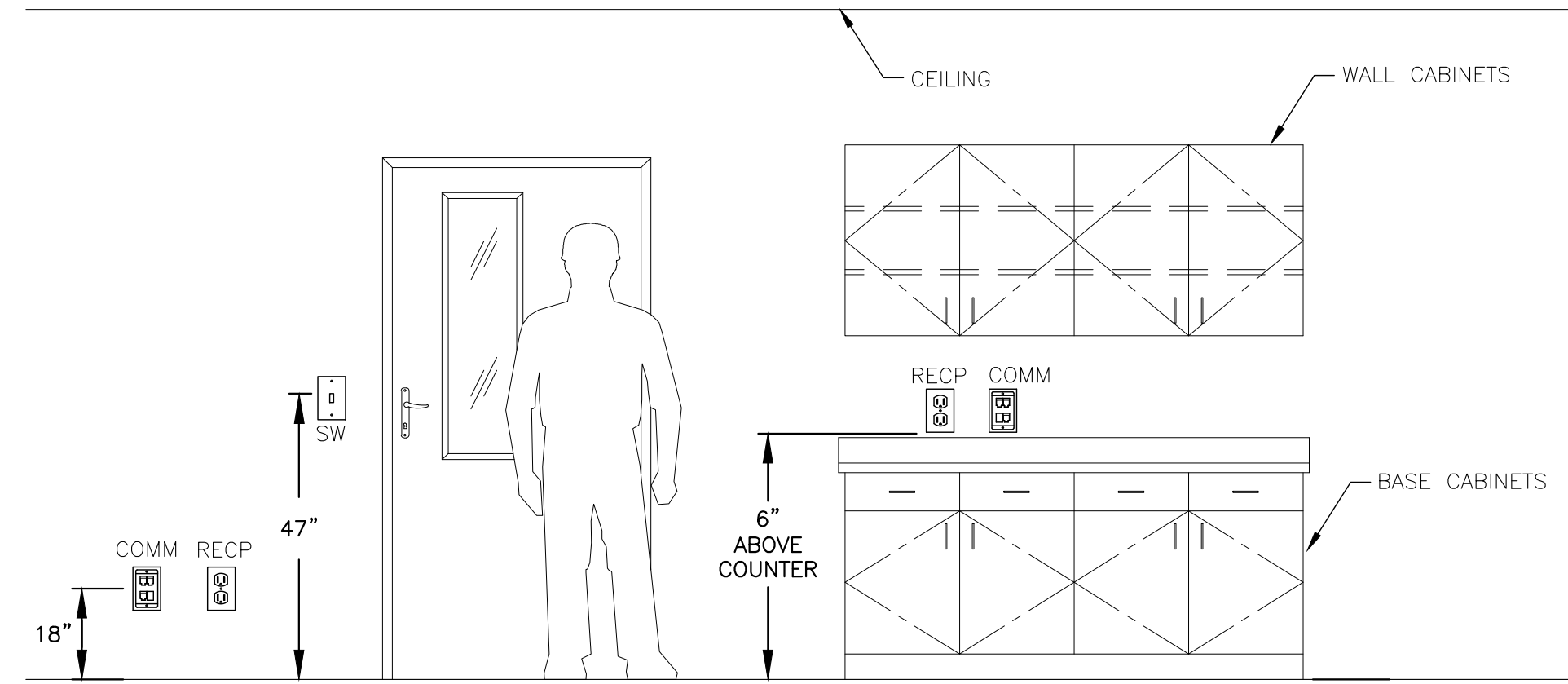
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E-5

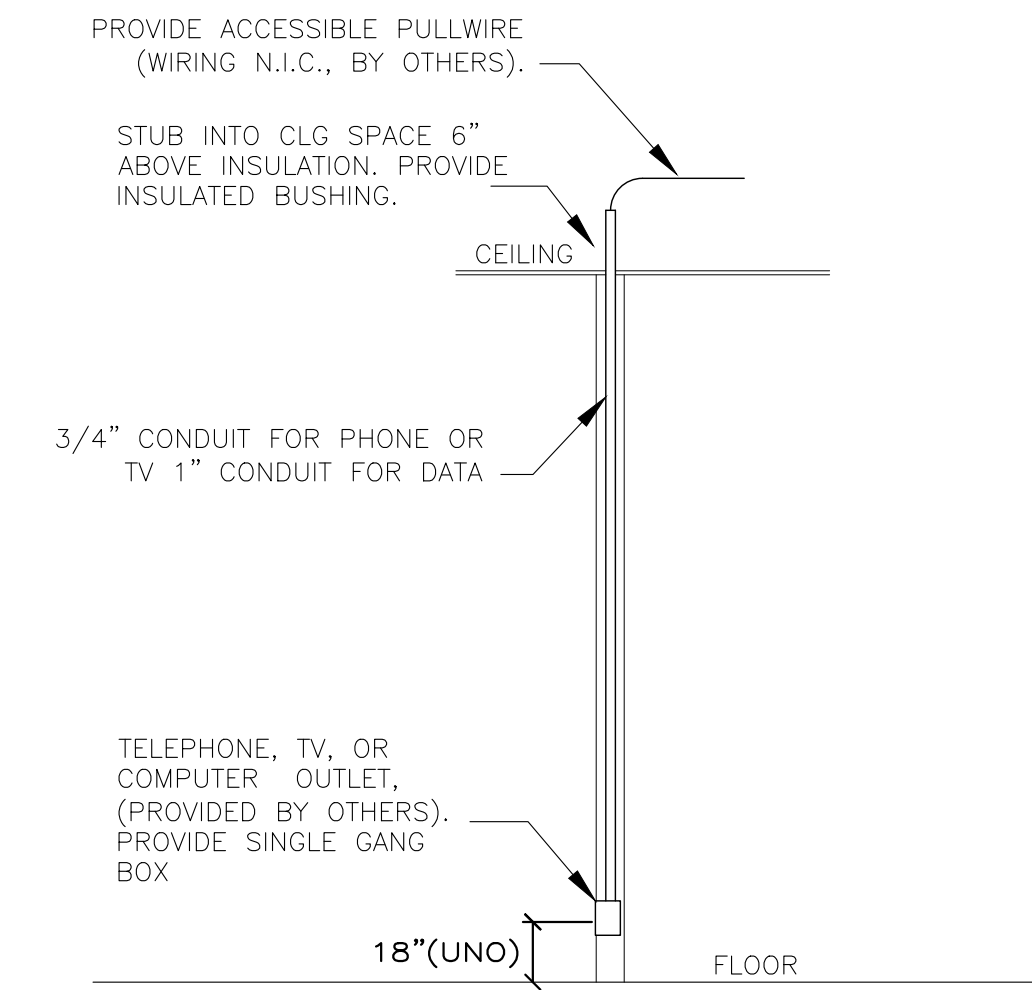


NOTES:

1. WITH THE EXCEPTION OF DEVICES ABOVE COUNTERS, MOUNT RECEPTACLES, DATA, PHONE, AND T.V. OUTLETS 18" A.F.F. (TO CENTER OF OUTLET) UNLESS NOTED OTHERWISE. MOUNT SWITCHES AT NO MORE THAN 47" A.F.F. (TO TOP OF SWITCH HANDLE) UNLESS NOTED OTHERWISE. IF THERE ARE OBSTRUCTIONS (I.E. A SERVICE COUNTER), MOUNT SWITCHES AT NO MORE THAN 44" A.F.F. (TO TOP OF SWITCH HANDLE). SEE SECTION 308 OF THE ADA STANDARDS FOR ACCESSIBLE DESIGN FOR MORE INFORMATION. CONFORM TO ALL AMERICANS WITH DISABILITY ACT (ADA) REQUIREMENTS.

TYPICAL DEVICE MOUNTING DETAIL

SCALE: NTS



NOTE: BOX AND CONDUIT FOR ADJACENT TELEPHONE AND COMPUTER OUTLETS MAY BE COMBINED. IF COMBINED, PROVIDE DOUBLE GANG BOX AND 1" CONDUIT.

TYPICAL TELEPHONE AND DATA RISER

SCALE: NTS

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SHEET TITLE: ELECTRICAL DETAILS

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E-6

MECHANICAL GENERAL NOTES

- ALL WORK SHALL BE COORDINATED WITH ALL TRADES INVOLVED. OFFSETS IN DUCTS, & TRANSITIONS AROUND OBSTRUCTIONS SHALL BE PROVIDED AT NO ADDITIONAL COST. MAINTAIN MANUFACTURER'S RECOMMENDED CLEARANCES. LOCATION OF DUCTWORK IS APPROXIMATE. PRIOR TO FABRICATING DUCTWORK, CONTRACTOR SHALL VERIFY ALL DIMENSIONS & CLEARANCES AND REPORT ANY DISCREPANCIES BETWEEN DRAWINGS & ACTUAL FIELD CONDITIONS TO THE ENGINEER. PRIOR TO INSTALLING EQUIPMENT, CONTRACTOR SHALL ENSURE EQUIPMENT CLEARANCES WILL BE MAINTAINED.
- FABRICATE & INSTALL DUCTWORK IN ACCORDANCE WITH SMACNA DUCT CONSTRUCTION STANDARDS, LATEST EDITION.
- CONDENSATE DISPOSAL SHALL BE IN ACCORDANCE WITH 2020 FMC INCLUDING ALL LATEST REVISIONS.
- CONDENSATE PIPING SHALL BE TRAPPED AND SIZED PER MANUFACTURER'S RECOMMENDATIONS.
- INDOOR & OUTDOOR UNITS SHALL HAVE SINGLE POINT OF CONNECTION.
- PROVIDE CONICAL TAKE-OFFS FOR ALL ROUND TAPS INTO RECTANGULAR DUCTWORK WITH VOLUME DAMPERS AT EACH TAKE-OFF FOR CFM ADJUSTMENT.
- COORDINATE DIFFUSER BOXES, SUPPLY, & RETURN GRILLES & OTHER MECHANICAL DEVICES WITH LIGHT FIXTURES, SPRINKLER PIPING & PLUMBING.
- PROVIDE LOW AMBIENT CONTROLS AS NECESSARY TO ALLOW COOLING AT TEMPERATURES DOWN TO 45°F.
- HORSEPOWER RATINGS ON MOTORS ARE BASED ON SCHEDULED EQUIPMENT & DESIGN CONDITIONS. ACTUAL FIELD CONDITIONS OR SUBSTITUTIONS FROM SCHEDULED EQUIPMENT MAY REQUIRE DIFFERENT HORSEPOWER. IF LARGER MOTOR SIZES ARE REQUIRED OR CHANGES OCCUR IN VOLTAGES, COORDINATE ELECTRICAL SERVICE TO ENSURE PROPER WIRE SIZES & DEVICES AT NO ADDITIONAL COMPENSATION (DUE TO THESE CHANGES) ASKED FOR OR REQUESTED BY ANOTHER CONTRACTOR OR TRADE.
- REFRIGERANT LINES FROM CU's TO AHU's SHALL BE SIZED PER MANUFACTURER'S RECOMMENDATIONS.
- ALL FAN MOTORS SHALL HAVE THERMAL OVERLOAD & CURRENT PROTECTION.
- PROVIDE SMOKE DETECTORS IN SUPPLY DUCT FOR ALL AHU's THAT DELIVER GREATER THAN 2000 CFM OF SUPPLY AIR FOR UNIT SHUTDOWN. CONTRACTOR SHALL PROVIDE AUDIBLE & VISUAL ALARM IN A CONSTANTLY OCCUPIED LOCATION. ALARM SHALL BE LABELED "DUCT TROUBLE".
- PROVIDE AHU's WITH PROGRAMMABLE THERMOSTATS.
- PROVIDE UNITS WITH 1" DISPOSABLE FILTER & FILTER HOUSING, TIME DELAY RELAY & LOCKOUT RELAY.
- PROVIDE UNITS WITH A 5 YEAR WARRANTY FOR COMPRESSORS & ONE YEAR ON OTHER PARTS.
- ALL DUCTWORK SHALL BE CONSTRUCTED WITH FIBERBOARD OR SHEET METAL PER LATEST SMACNA STANDARDS, & SHALL HAVE A MINIMUM R VALUE OF 6.
- MECHANICAL CONTRACTOR TO PROVIDE TENANT WITH AIR BALANCE REPORT, EQUIPMENT AND LABOR WARRANTIES AND PROVIDE A COMPLETE, OPERATIONAL MECHANICAL SYSTEM IN COMPLIANCE WITH ALL APPLICABLE CODES.
- OUTSIDE AIR DUCTS SHALL INCLUDE INSTALLATION OF A MOTORIZED, 2-POSITION DAMPER TO ALLOW THE SCHEDULED AMOUNT OF OUTSIDE AIR TO FLOW THROUGH THE UNIT, AND CLOSE UPON UNIT SHUTDOWN.
- ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE 2020 FLORIDA MECHANICAL CODE (INCLUDING ALL LATEST REVISIONS), NFPA 90A, ASHRAE 62.1-2016, AND ASHRAE 90.1.
- PROVIDE ENGINEER OF RECORD WITH HVAC EQUIPMENT CUT SHEETS. CUT SHEETS SHALL BE APPROVED PRIOR TO INSTALLATION.
- THE MECHANICAL CONTRACTOR SHALL VISIT THE SITE PRIOR TO SUBMITTING A BID FOR THE PROJECT. THE MECHANICAL CONTRACTOR SHALL COORDINATE DUCTWORK LOCATIONS DESIGNED BY THE MECHANICAL ENGINEER AND FIELD VERIFY ANY OBSTACLES OR CONFLICTS AND NOTE THEM IMMEDIATELY TO THE ENGINEER. NO DUCTWORK SHALL BE FABRICATED PRIOR TO FIELD VERIFYING ALL EXISTING CONDITIONS.

SYMBOL LEGEND

	NEW RECTANGULAR DUCT (INSIDE DIMENSIONS: WIDTH X DEPTH)		CEILING SUPPLY AIR DIFFUSER
	NEW ROUND DUCT (INSIDE DIMENSION)		CEILING RETURN AIR GRILLE
	FLEX DUCT (INSIDE DIMENSION)		CEILING EXHAUST AIR GRILLE
	EXISTING DUCT TO REMAIN		DUCT / WALL MOUNTED SUPPLY REGISTER / GRILLE
	EXISTING DUCT TO BE REMOVED		DUCT / WALL MOUNTED RETURN/ EXHAUST REGISTER / GRILLE
	CONNECT NEW DUCT TO EXISTING DUCT		MANUAL VOLUME DAMPER
	TRUNCATE DUCT - LIMIT OF DEMOLITION		SMOKE DETECTOR
	VANED ELBOW		DUCT TEMPERATURE SENSOR
	RADIUS ELBOW		THERMOSTAT/SENSOR
	TRANSITION - CONCENTRIC		DEHUMIDISTAT
	TRANSITION - ECCENTRIC		AIR DEVICE TYPE CFM AMOUNT
	SQUARE TEE		SUPPLY AIRFLOW
	STANDARD BRANCH TAKE-OFF		RETURN/ EXHAUST AIRFLOW
	SUPPLY DUCT (UP & DOWN)		HEATER
	RETURN DUCT (UP & DOWN)		
	EXHAUST DUCT (UP & DOWN)		
	ROUND DUCT (UP & DOWN)		

NOTE: SOME SYMBOLS SHOWN DO NOT PERTAIN TO THIS PROJECT

ABBREVIATIONS

ABV	ABOVE
AFF	ABOVE FINISH FLOOR
AHU	AIR HANDLING UNIT
BDD	BACKDRAFT DAMPER
BHP	BRAKE HORSEPOWER
BTU	BRITISH THERMAL UNIT
CFM	CUBIC FEET PER MINUTE
CIRC	CIRCULAR
CU	CONDENSING UNIT
DCI	DUCTLESS CEILING-CASSETTE INDOOR
DCO	DUCTLESS CEILING-CASSETTE OUTDOOR
DN	DOWN
DWI	DUCTLESS WALL-MOUNTED INDOOR
DWO	DUCTLESS WALL-MOUNTED OUTDOOR
EAT	ENTERING AIR TEMPERATURE
EDB	ENTERING DRY-BULB (TEMPERATURE)
EER	ENERGY EFFICIENCY RATIO
EF	EXHAUST FAN
ESP	EXTERNAL STATIC PRESSURE
EWB	ENTERING WET-BULB (TEMPERATURE)
EX	EXISTING
FD	FIRE DAMPER
FF	FLY FAN (AIR CURTAIN)
FLA	FULL LOAD AMPS
FPM	FEET PER MINUTE
FT	FEET
GPM	GALLON PER MINUTE
HE	HEATER
HP	HEAT PUMP
HP	HORSEPOWER
HUM	HUMIDIFIER
IN	INCHES
IRH	INFRARED HEATERS
KEF	KITCHEN EXHAUST FAN
KW	KILOWATT
L	LOUVER
LAT	LEAVING AIR TEMPERATURE
MBH	THOUSANDS BTUS PER HOUR
MCA	MINIMUM CIRCUIT AMPS
MOC	MAXIMUM OVER CURRENT PROTECTION
MOD	MOTOR OPERATED CONTROL DAMPER
MUA	MAKE-UP AIR UNIT
NA	NOT APPLICABLE
NC	NOISE CRITERIA
NC	NORMALLY CLOSED
NO	NORMALLY OPEN
NTS	NOT TO SCALE
OA	OUTSIDE AIR
OD	OUTSIDE DIAMETER
PSI	POUNDS PER SQUARE INCH
RA	RETURN AIR
RECT	RECTANGULAR
RH	RELATIVE HUMIDITY
RLA	RUN LOAD AMPERE
RTU	ROOFTOP AIR HANDLING UNIT
RPM	REVOLUTION PER MINUTE
SA	SUPPLY AIR
SEER	SEASONAL ENERGY EFFICIENCY RATIO
SF	SUPPLY FAN
SS	STAINLESS STEEL
SP	STATIC PRESSURE
TYP	TYPICAL
UC	UNDERCUT DOOR
UNO	UNLESS NOTED OTHERWISE
UTR	UP THROUGH ROOF
V/PH	VOLTS/PHASE
VCD	VOLUME CONTROL DAMPER
VAV	VARIABLE AIR VOLUME
VD	VOLUME DAMPER
	(MANUAL OPPOSED BLADE)
VFD	VARIABLE FREQUENCY DRIVE
W	WATTS
WEF	WALL EXHAUST FAN

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SHEET TITLE: MECHANICAL NOTES, LEGEND AND ABBREVIATIONS

NO.	DATE	REVISION

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SHEET
M-1

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SPLIT SYSTEM COOLING UNIT SCHEDULE

MARK	INDOOR FAN DATA				COOLING CAPACITY				SEER	INDOOR FAN		OUTDOOR FAN		ELECTRICAL DATA			BASIS OF DESIGN		
	TOTAL FLOW (CFM)	O/A (CFM)	ESP (W.G.)	MOTOR (HP)	EDB (°F)	EWB (°F)	AMBIENT (°F)	TOTAL (BTUHR)		SENSIBLE (BTUHR)	MCA (A)	MOCP (A)	HEATER (KW)	MCA (A)	MOCP (A)	VOLTS		Hz	PHASE
AHU-1 / CU-1	1150	185	0.8	0.5	80	67	95	35,100	26,100	14.75	28.7	30	4.4	17.6	30	230	60	1	YORK JHETB36DBC52N1 / TCE2B36S21S
AHU-2 / CU-2	1150	185	0.8	0.5	80	67	95	35,100	26,100	14.75	28.7	30	4.4	17.6	30	230	60	1	YORK JHETB36DBC52N1 / TCE2B36S21S

NOTES:
 1. UNITS PROVIDED SHALL MEET ALL SCHEDULED VALUES REGARDLESS OF MODEL OR TYPE, UNLESS APPROVED BY THE ENGINEER.
 2. PROVIDE EACH UNIT WITH A PROGRAMMABLE THERMOSTAT MOUNTED @ 48" AFF.
 3. PROVIDE WATER-LEVEL DETECTION DEVICE INSIDE PRIMARY DRAIN PAN THAT WILL SHUT OFF UNIT WHEN THE PRIMARY DRAIN PAN BECOMES RESTRICTED.

AIR DISTRIBUTION DEVICE SCHEDULE

MARK	DESCRIPTION	MOUNTING	FACE SIZE	BASIS OF DESIGN	NOTES
A	4-WAY SUPPLY	LAY-IN	24" x 24" / 12" x 12" / 12" x 6"	TITUS TMS	1.2
B	2-WAY SUPPLY	DUCT	14" x 6"	TITUS 301FS	1.2
C	RETURN REGISTER	DUCT	24" x 14"	TITUS 355FS	1.2

NOTES:
 1. LOUVER FACE.
 2. WITH OPTIONAL DAMPER.

EXHAUST FAN SCHEDULE

MARK	SERVICE	TOTAL AIR (CFM)	E.S.P. (W.G.)	UNIT TYPE	DRIVE	POWER (W)	FLA	VOLTS/PH/Hz	MANUFACTURER	MODEL NUMBER	NOTES
EF-1,2	TOILET ROOM	70	0.13	CEILING	DIRECT	15	0.27	115/1/60	GREENHECK	SP-A70	1.2

NOTES:
 1. INTERLOCK WITH LIGHT SWITCH.
 2. PROVIDE BACKDRAFT DAMPER.

LOUVER SCHEDULE

MARK	DESCRIPTION	TOTAL AIR (CFM)	MOUNTING	FACE SIZE	MATERIAL	BASIS OF DESIGN	NOTES
L-1	OUTDOOR AIR INTAKE	185	WALL MOUNTED	16" x 10"	ALUMINUM	GREENHECK EVH-501D	1.2
L-2	OUTDOOR AIR INTAKE	185	WALL MOUNTED	16" x 10"	ALUMINUM	GREENHECK EVH-501D	1.2

NOTES:
 1. COORDINATE FINISH WITH ARCHITECT.
 2. PROVIDE BIRD SCREEN AND MOTORIZED, 2-POSITION O/A DAMPER.

BRANCH & FLEX DUCT SCHEDULE

0 - 160	CFM	-	6"ø
165 - 250	CFM	-	8"ø
255 - 380	CFM	-	10"ø
385 - 470	CFM	-	12"ø
475 - 700	CFM	-	14"ø
705 - 1100	CFM	-	16"ø

NOTE: BRANCH RUNOUT SIZE REFLECTS SUPPLY DIFFUSER NECK SIZE UNLESS OTHERWISE NOTED.

AIR BALANCE SCHEDULE

UNIT	OUTSIDE AIR	RETURN AIR	SUPPLY AIR	EXHAUST AIR	PRESSURE
AHU-1	185	965	1150	--	185
AHU-2	185	965	1150	--	185
EF-1,2	--	--	--	-140	-140
TOTAL	370	1930	2300	-140	230

OUTDOOR AIR VENTILATION CALCULATION ASHRAE 62.1.2004

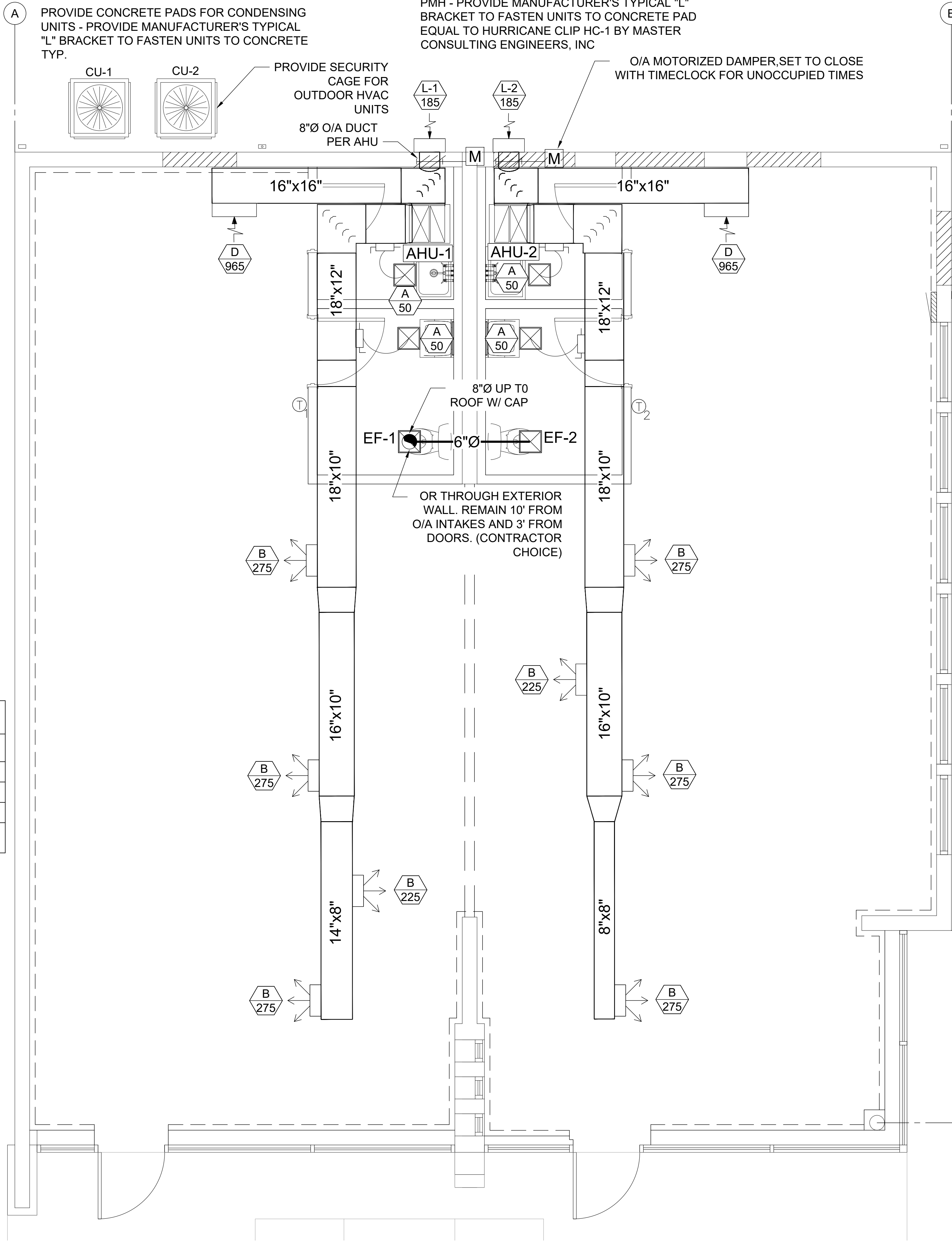
$V_{bz} = (R_p)(P_z) + (R_a)(A_z)$

SPACE	PEOPLE OUTDOOR AIR RATE (Rp)	ZONE POPULATION (PER 1000 SQFT)	ZONE POPULATION (Pz)	AREA OUTDOOR AIR RATE (Ra)	ZONE FLOOR AREA (Az)	EXHAUST (Ea)	BREATHING ZONE (Vbz)
TOILET ROOMS (2)	0	0	0	0	94	140	0
AC CLOSETS (2)	0	0	0	0.12	76	N/A	9
RETAIL	7.5	15	23.175	0.12	1545	N/A	359
TOTAL O/A REQUIRED 368 CFM				TOTAL EXHAUST = 140 CFM		368	
O/A PROVIDED THROUGH AHU-1,2 = 370 CFM							

PROVIDE WORKING CLEARANCES @ CONDENSING UNITS AS REQUIRED BY EQUIPMENT MFR; FIELD VERIFY LOCATION w/TENANT AND LANDLORD, TYP.

PROVIDE CONCRETE PADS FOR CONDENSING UNITS EQUAL TO HURRICANE PAD H-CLASS BY MASTER CONSULTING ENGINEERS, INC. 150 PMH - PROVIDE MANUFACTURER'S TYPICAL "L" BRACKET TO FASTEN UNITS TO CONCRETE PAD EQUAL TO HURRICANE CLIP HC-1 BY MASTER CONSULTING ENGINEERS, INC

PROVIDE CONCRETE PADS FOR CONDENSING UNITS - PROVIDE MANUFACTURER'S TYPICAL "L" BRACKET TO FASTEN UNITS TO CONCRETE TYP.



MECHANICAL PLAN

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



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SHEET TITLE: MECHANICAL PLAN AND SCHEDULES

NO. DATE REVISION

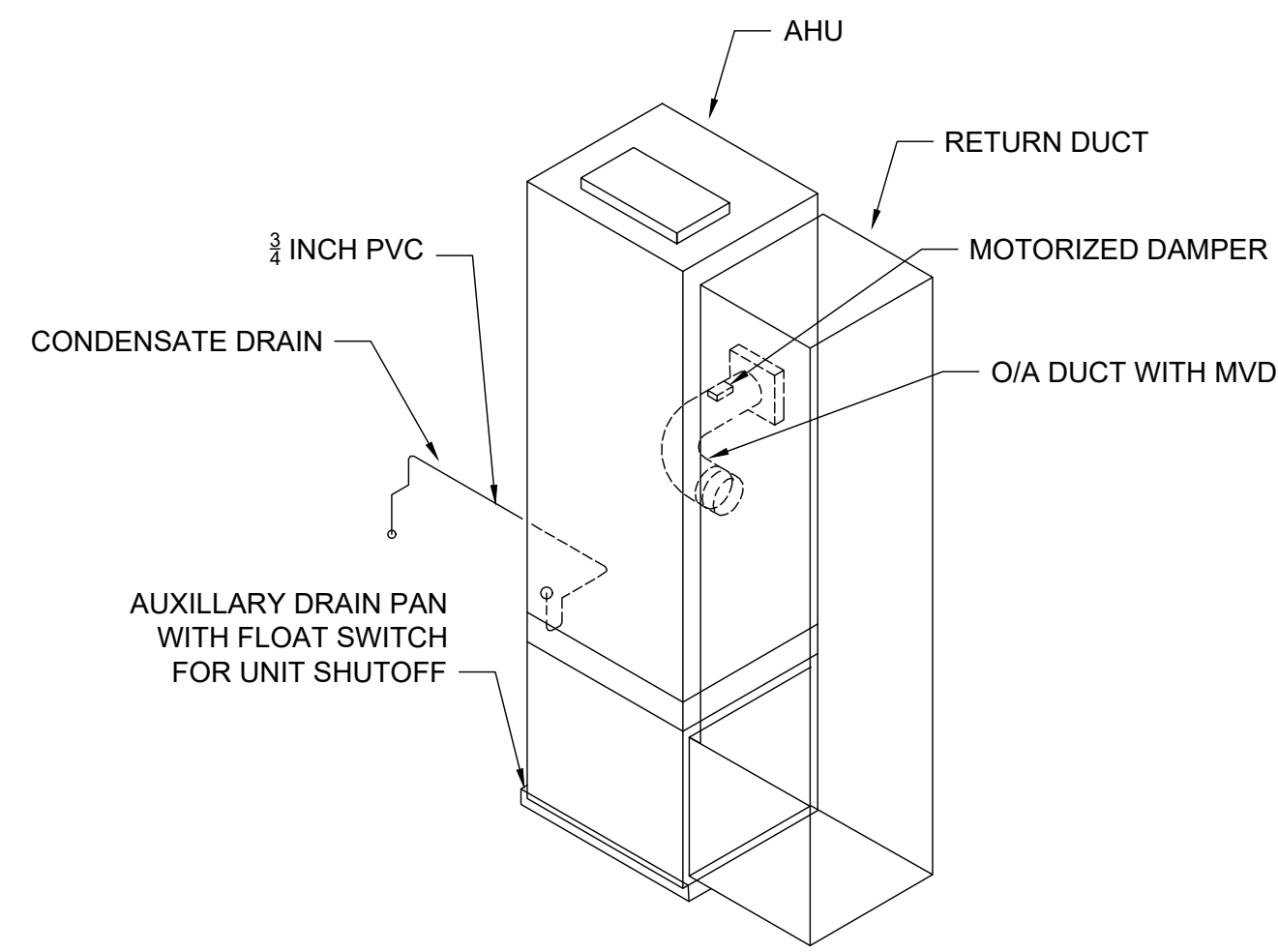
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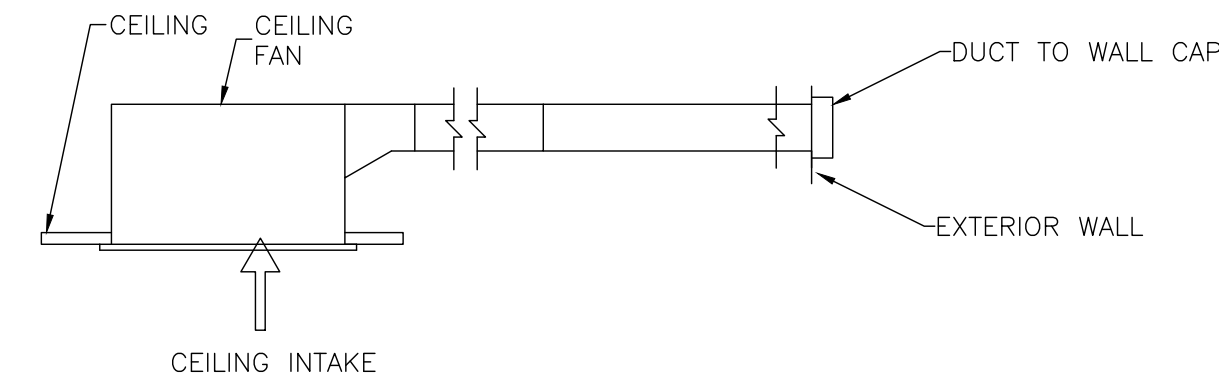
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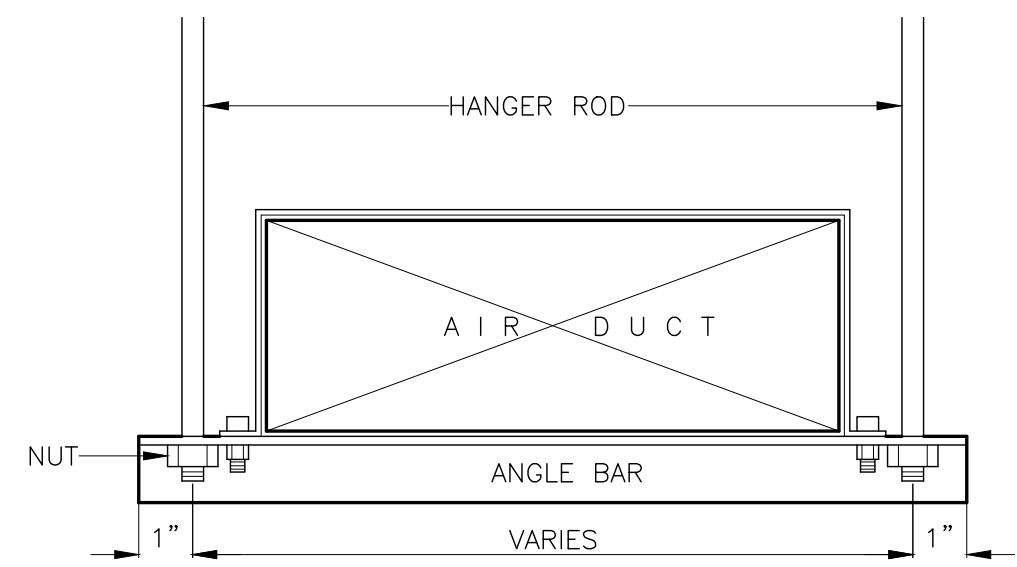
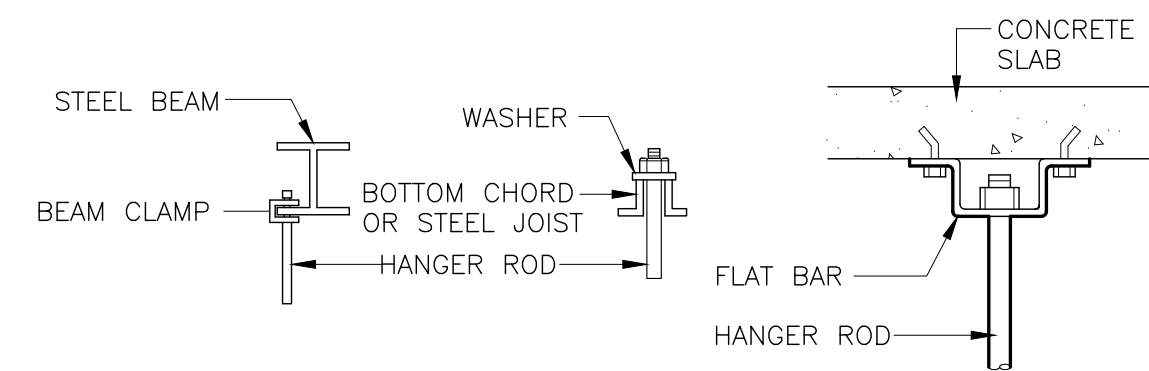
AHU CONNECTION DETAIL

SCALE: N.T.S.

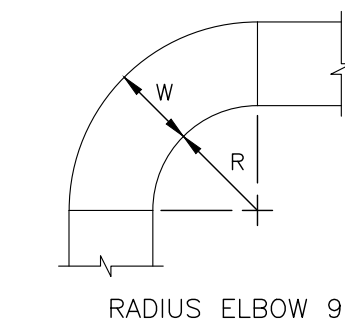


TOILET EXHAUST DETAIL

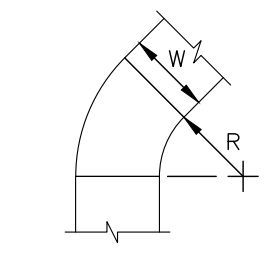
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- NOTE:
1. MAXIMUM HANGER SPACING SHALL BE ON 6FT. TO 8FT. INTERVALS.
 2. ANGLE BAR SUPPORT SHALL CONFORM WITH SMACNA'S HVAC DUCT CONSTRUCTION STANDARDS - METAL AND FLEXIBLE, 3rd EDITION, 2005.
 3. HANGER ROD SHALL CONFORM WITH SMACNA'S HVAC DUCT CONSTRUCTION STANDARDS - METAL AND FLEXIBLE, 3rd EDITION, 2005
 4. INSTALL HANGERS AND SUPPORTS WITHIN 24 IN. OF EACH ELBOW AND WITHIN 48 IN. OF EACH BRANCH INTERSECTION.



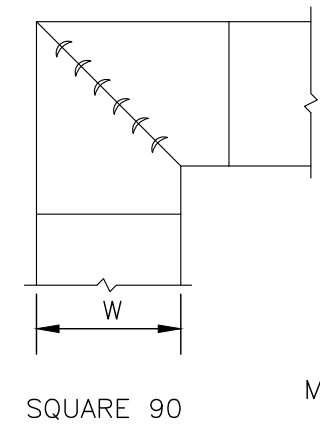
- NOTES:
1. ALL ELBOWS WITH $W < 12"$ SHALL BE RADIUS ELBOWS.
 2. $W \leq 32$ INCHES $R=W$
 $W > 32$ INCHES $R= 1/2W$



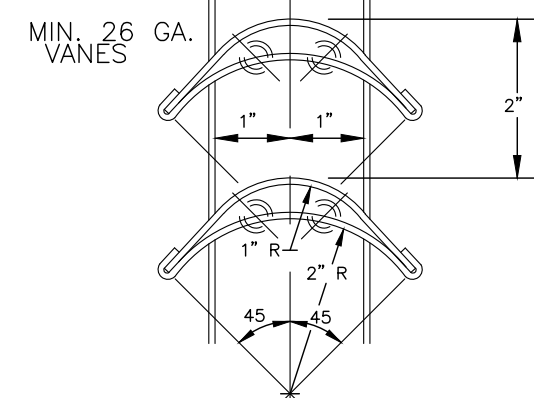
- NOTES:
1. PARTIAL ELBOWS, ALL SIZES SHALL BE CONSTRUCTED AS RADIUS ELBOWS.
 2. $W \leq 32$ INCHES $R=W$
 $W > 32$ INCHES $R= 1/2W$

RADIUS ELBOW - RECT. DUCT

SCALE: N.T.S.



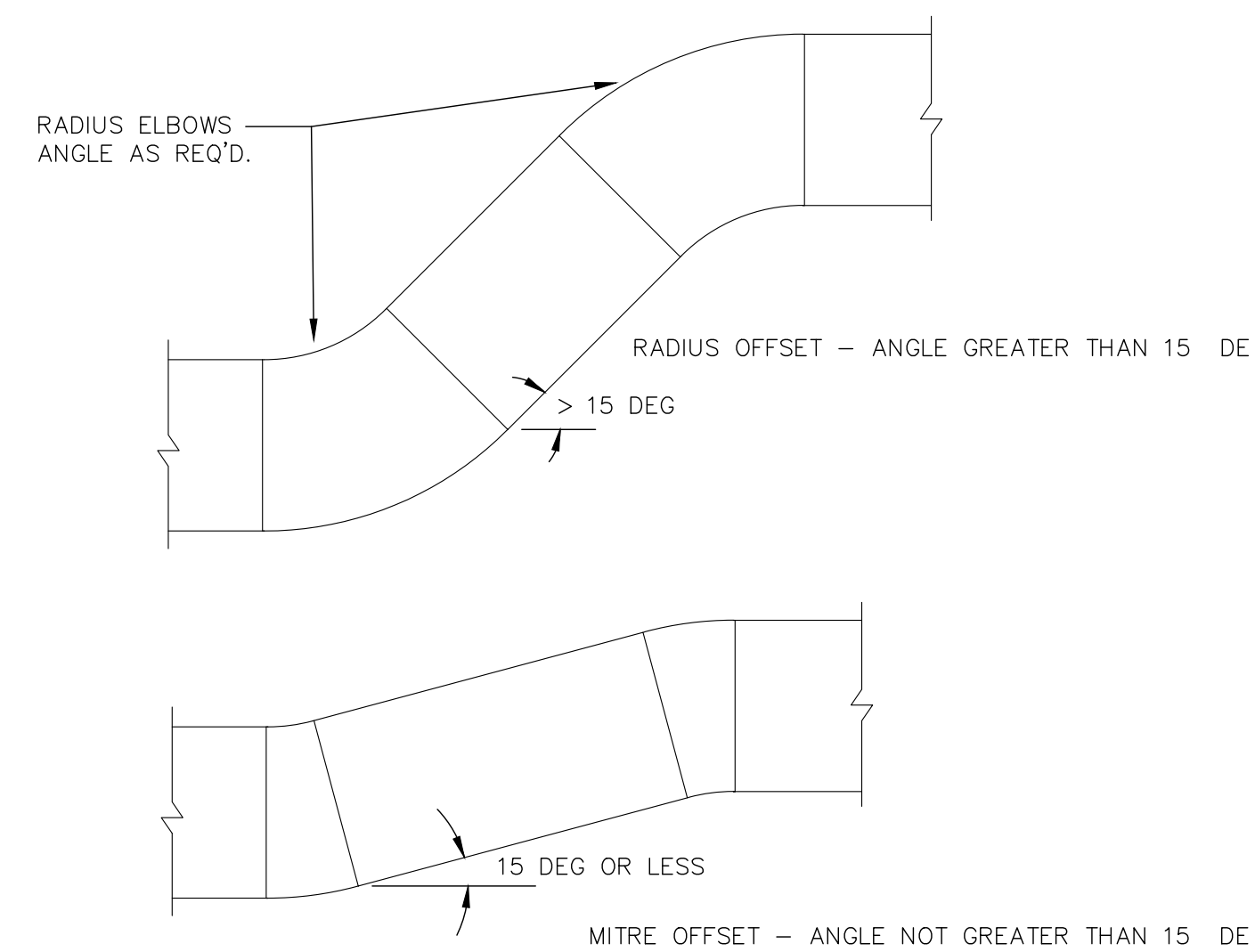
- NOTES:
1. SHALL ONLY BE USED FOR 90 DEG ELBOWS. FOR ANGLES OTHER THAN 90 DEG USE RADIUS ELBOW CONSTRUCTION.
 2. PARTIAL ELBOWS, ALL SIZES SHALL BE CONSTRUCTED AS RADIUS ELBOWS.



TURNING VANE DETAIL

ELBOW DETAIL - RECT. DUCT

SCALE: N.T.S.

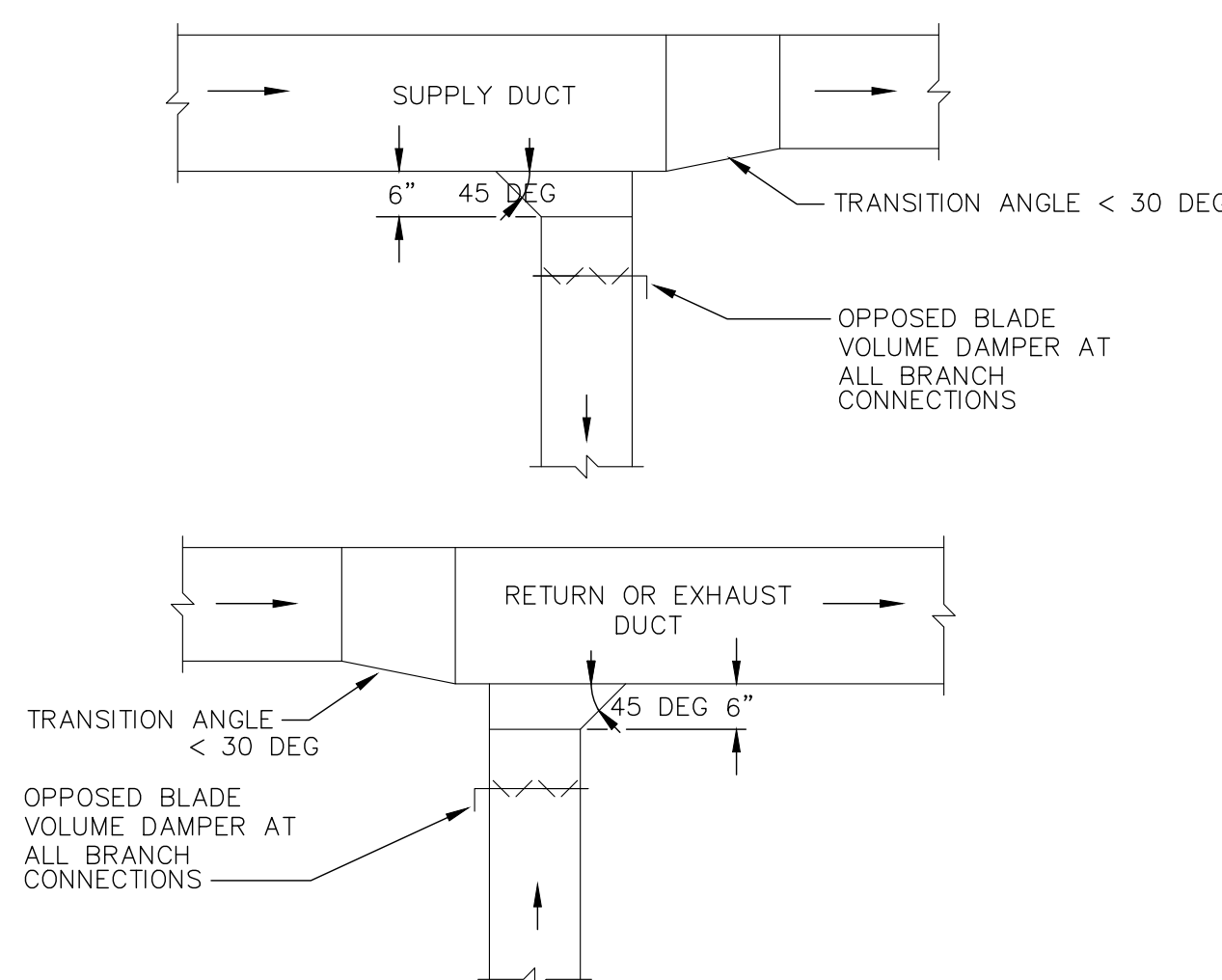


DUCT OFFSET

SCALE: N.T.S.

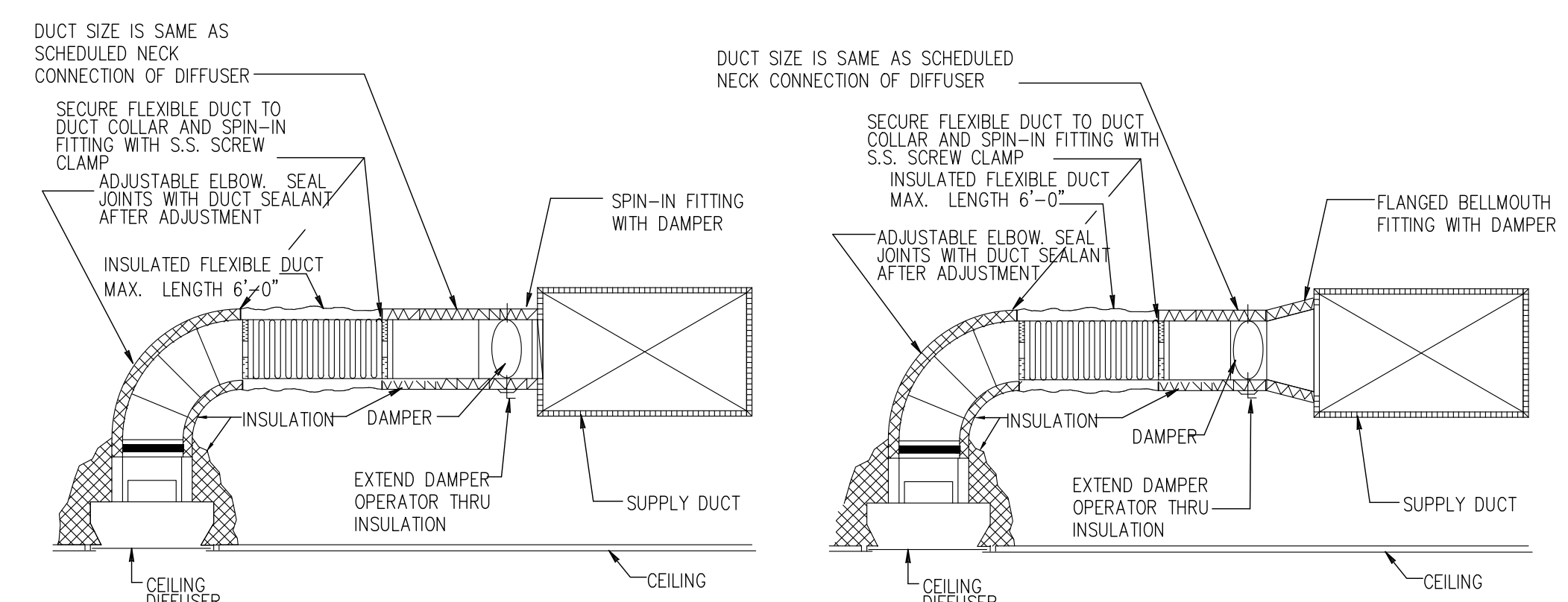
DUCT HANGER DETAIL

SCALE: N.T.S.



TYPICAL BRANCH TAKE-OFF DETAIL

SCALE: N.T.S.



- NOTE:
- THE FLANGED BELLMOUTH FITTING MUST BE PROVIDED, WHERE HEIGHT OF DUCT SHOWN ON PLANS CAN ACCOMMODATE THE FITTING. ONLY WHERE THE DUCT HEIGHT DOES NOT ALLOW THE INSTALLATION OF BELLMOUTH FITTING, PROVIDE SPIN-IN FITTING. FLEX DUCT SHALL BE LOCATED IN RISER OR HORIZONTAL RUN.

FLEX DUCT CONNECTION DETAIL

SCALE: N.T.S.

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PLUMBING LEGEND

PROJECT GENERAL NOTES

1. SANITARY, WASTE AND VENT PIPE AND FITTINGS SHALL BE SOLID CORE DWV SCH 40 PVC, WITH A SOLID CELLULAR CORE, OR COMPOSITE WALL MATERIAL AS SPECIFIED, UNLESS STATED OTHERWISE BY LOCAL CODES AND REGULATIONS; ASTM D2665; ASTM F891; ASTM F1488; CSA B181.2. PROVIDE APPROVED FIRE RATED JACKET WHERE PIPE PASSES THROUGH RETURN AIR PLENUM.
2. OFFSET VENT THRU ROOF'S (VTR'S) AS REQUIRED TO PENETRATE ROOF AT LOCATION AT LEAST 10' FROM AIR CONDITIONING UNIT INTAKES AND TERMINATE A MINIMUM OF 12" (INCHES) AWAY FROM ANY VERTICAL SURFACE. COORDINATE EXACT LOCATION OF AIR CONDITIONING UNITS WITH MECHANICAL CONTRACTOR AND ADJUST AS NECESSARY. EXISTING VTR'S MAY BE RE-USED WHERE SUITABLE.
3. REFER TO RISERS FOR PIPE SIZES NOT SHOWN ON PLAN. REFER TO SCHEDULE FOR SANITARY DRAIN, DOMESTIC WATER AND INDIVIDUAL VENT CONNECTION SIZES.
4. REFER TO ARCHITECTURAL PLANS TO CONFIRM LOCATION OF FIRE RATED WALLS, SMOKE BARRIERS, AND SMOKE PARTITIONS. ALL PENETRATIONS OF RATED WALLS SHALL BE MADE WITH FIRE STOPPING MATERIALS IN ACCORDANCE WITH THE 2020 FLORIDA BUILDING CODE REQUIREMENTS. PENETRATIONS OF ALL FIRE RATED ASSEMBLIES SHALL BE MADE IN ACCORDANCE WITH THE FIRE RATED ASSEMBLY'S UL LISTING, AS APPROVED BY THE AUTHORITY HAVING JURISDICTION.
5. SLEEVE ALL FLOOR/WALL PENETRATIONS THAT ARE NOT CORE BORED.
6. POTABLE WATER PIPING AND FITTINGS SHALL BE CPVC WITH COMPATIBLE CPVC FITTINGS AND SOLVENT CEMENT, MATERIAL AS SPECIFIED. OR POTABLE WATER PIPING AND FITTINGS SHALL BE TYPE K COPPER BELOW GRADE AND TYPE L COPPER ABOVE GRADE AS SPECIFIED. PROVIDE APPROVED FIRE RATED JACKET WHERE PIPE PASSES THROUGH RETURN AIR PLENUM.
7. INSULATE ALL HOT WATER PIPING, AND COLD WATER PIPING IN EXPOSED LOCATIONS, AS SPECIFIED.
8. REFER TO WATER HEATER DETAIL FOR EMERGENCY DISCHARGE, DRAIN PAN, AND OTHER PIPING REQUIREMENTS.
9. ISOLATION AND SHUTOFF VALVES AND STOP VALVES SHALL BE GATE VALVES, BALL VALVES OR ANGLE STOPS, RATED FOR 150 PSI AT 180°F. REFER TO SPECIFICATIONS.
10. PROVIDE WATER HAMMER ARRESTORS FOR ALL FIXTURES IN ACCORDANCE WITH PDI 201 GUIDELINES.
11. PROVIDE TRAP PRIMERS FOR ALL FLOOR DRAINS AND/OR FLOOR SINKS. PROVIDE ADA COVERING OVER TRAP PRIMERS INSTALLED UNDER ADA LAVATORIES AND SINKS.
12. ALL WATER PIPE SHALL BE RUN CONCEALED IN CHASE, WALL, OR ABOVE CEILING EXCEPT IN MECHANICAL ROOMS OR AS OTHERWISE NOTED.
13. PRIOR TO ORDERING FIXTURES, CONFIRM DIMENSIONAL FIT-UP REQUIREMENTS FOR DWV PIPING LAYOUTS, FRAMING/MILLWORK, FAUCET TRIM HOLES, ETC. AND COORDINATE ANY REQUIRED ADJUSTMENTS FOR PROPER FIT FORM AND FUNCTION OF EACH FIXTURE.
14. PROVIDE ALL REQUIRED FITTINGS FOR COMPLETE INSTALLATION OF EACH FIXTURE INCLUDING, BUT NOT LIMITED TO, 3/8" FLEXIBLE SUPPLIES, ESCUTCHEON PLATES, STOP VALVES, DRAINS, TRAPS, MOUNTING HARDWARE, ETC. ALL EXPOSED HARDWARE SHALL BE POLISHED BRASS OR CHROME FINISH.
15. INSTALL ALL FIXTURES IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS, PLUMB AND LEVEL, PROPERLY SECURED AND SEALED TO WALL OR FLOOR.
16. ALL PLUMBING FIXTURES AND MATERIALS SHALL BE INSTALLED IN ACCORDANCE WITH THE 2020 FLORIDA PLUMBING CODE AND ENERGY CONSERVATION CODE, LATEST EDITION ADOPTED BY AUTHORITY HAVING JURISDICTION.
17. ALL PLUMBING FIXTURES AND MATERIALS SHALL BE INSTALLED IN ACCORDANCE WITH 2020 FLORIDA ACCESSIBILITY CODE. ENSURE SANITARY ROUGH-INS ARE LOCATED TO MAINTAIN ADA CLEARANCES AFTER FIXTURES ARE INSTALLED. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT DIMENSIONS.
18. REVIEW PLANS TO CONFIRM ADEQUATE CHASE AND/OR WALL CAVITY CLEARANCE EXISTS PRIOR TO INITIATION OF WORK.
19. ALL PIPING, MATERIALS AND EQUIPMENT ARE NEW UNLESS OTHERWISE NOTED.
20. REVIEW BUY AMERICA(N) REQUIREMENTS WITH GENERAL CONTRACTOR. IF RELEVANT TO THIS CONTRACT, CONFIRM ALL EQUIPMENT PROVIDED MEETS THESE REQUIREMENTS, REGARDLESS OF MAKE/MODEL INDICATED ON BASIS OF DESIGN EQUIPMENT SCHEDULES.
21. ALL WORK AND MATERIAL SHALL BE PERFORMED AND INSTALLED IN COMPLIANCE WITH THE 2020 FLORIDA BUILDING CODE AND ALL CURRENT AMENDMENTS. NOTHING IN THESE DRAWINGS IS TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THESE CODES.
22. ALL PLUMBING WORK SHALL BE INSTALLED TO AVOID INTERFERENCES WITH ELECTRICAL, MECHANICAL AND STRUCTURAL FRAMING.
23. EXACT LOCATIONS AND MOUNTING HEIGHTS OF PLUMBING FIXTURES SHALL BE OBTAINED FROM THE ARCHITECTURAL DRAWINGS.
24. BEFORE COMMENCEMENT OF WORK, CONTRACTOR SHALL VERIFY THE EXACT LOCATIONS, ELEVATIONS, AND CHARACTERISTICS OF ALL UTILITIES AND PIPING. IMMEDIATELY NOTIFY THE ARCHITECT/ENGINEER OF ANY DISCREPANCIES.
25. ALL WASTE AND VENT PIPING SHALL SLOPE AT 1/8" PER FOOT OR 1/4" PER FOOT UNLESS INDICATED OTHERWISE.
26. REMOVE ALL FACTORY MARKINGS ON EXPOSED PVC PIPING. USE ACETONE, XYLENE, MEK OR ANOTHER APPROPRIATE SOLVENT.
27. FLOOR CLEANOUTS SHALL BE INSTALLED FLUSH TO FINISHED FLOOR, NO DISHING PERMITTED.
28. ALL VENT PIPING SHALL BE FULL LINE SIZE IF A WALL CLEAN-OUT IS SHOWN OR AS INDICATED.
29. FLOOR DRAIN LINE SIZE AND VENTING IN ACCORDANCE WITH THE 2020 FLORIDA PLUMBING CODE INCLUDING LATEST REVISIONS, COMBINATION WASTE AND VENT SYSTEM.
30. ALL VENT PIPING SHALL BE LOCATED WITHIN MASONRY WALLS AND OTHER WALL CONSTRUCTION THAT MAY BE USED TO ENCLOSE THE VENT PIPING. PIPING SHOWN ON DRAWINGS MAY NOT REFLECT THIS INSTALLATION METHOD BECAUSE OF THE DEGREE OF DETAIL INCONSISTENT WITH 1/8" PLANS. IF PIPING CANNOT BE INSTALLED WITHIN THESE STRUCTURES, APPROVAL OF THE ENGINEER OF ANOTHER INSTALLATION METHOD IS REQUIRED. ALL EXPOSED VENT PIPING SHALL BE ATTACHED TO WALL NO FURTHER THAN 3" AWAY.
31. PLUMBING FIXTURE DESCRIPTION SHALL TAKE PRECEDENCE WHEN EXISTS A CONFLICT WITH THE DESCRIPTION AND MODEL NUMBER.
32. PLUMBING CONTRACTOR SHALL PROVIDE A PRESSURE REDUCING VALVE (PRV) WHERE WATER MAIN ENTERS BUILDING IF PRESSURE EXCEEDS 80 PSI. SET PRESSURE REDUCING VALVE TO 75 PSI.
33. WHILE EVERY ATTEMPT HAS BEEN MADE IN THE PREPARATION TO THESE PLANS TO AVOID MISTAKES, THE DESIGNER AND COMPANY CANNOT GUARANTEE AGAINST ERROR OR UNFORESEEN FIELD CONDITIONS. THE CONTRACTOR OR BUILDER MUST CHECK ALL DIMENSIONS AND DETAILS AND REPORT ANY DISCREPANCIES.
34. CONTRACTOR MUST CHECK EQUIPMENT NOT IN CONTRACT SO THAT THE SERVICE REQUIREMENTS ARE CORRECTLY TYPED, ADEQUATELY SIZED, AND ROUGHED-IN PROPERLY SO AS TO MINIMIZE THE AMOUNT OF MATERIALS AND FITTINGS NEEDED FOR FINAL HOOK-UP, RESULTING IN A NEAT AND ORDERLY LOOKING INSTALLATION.
35. COORDINATE WITH GENERAL CONTRACTOR AND ALL OTHER DISCIPLINES FOR CONNECTION REQUIREMENTS AND RUN LOCATIONS TO PREVENT CONFLICTS.
36. LANDLORD TO APPROVE ALL ROOF PENETRATIONS. ALL ROOF WORK MUST BE BY LANDLORD'S APPROVED ROOFER.

ABBREVIATIONS

<table border="0" style="width: 100%;"> <tr><td>AAV</td><td>AIR ADMITTANCE VALVE</td></tr> <tr><td>AC</td><td>AIR COMPRESSOR</td></tr> <tr><td>AFF</td><td>ABOVE FINISHED FLOOR</td></tr> <tr><td>AHJ</td><td>AUTHORITIES HAVING JURISDICTION</td></tr> <tr><td>AS</td><td>AQUASTAT</td></tr> <tr><td>BFF</td><td>BELOW FINISHED FLOOR</td></tr> <tr><td>BFG</td><td>BELOW FINISHED GRADE</td></tr> <tr><td>BTS</td><td>BARRIER TYPE SEAL-TRAP PRIMER</td></tr> <tr><td>BTU</td><td>BRITISH THERMAL UNIT</td></tr> <tr><td>CA</td><td>COMPRESSED AIR</td></tr> <tr><td>CFH</td><td>CUBIC FEET PER HOUR</td></tr> <tr><td>CL</td><td>CENTER LINE</td></tr> <tr><td>CND</td><td>CONDENSATE DRAIN</td></tr> <tr><td>CO</td><td>CLEAN-OUT</td></tr> <tr><td>COOG</td><td>CLEAN-OUT ON GRADE</td></tr> <tr><td>CW</td><td>COLD WATER LINE</td></tr> <tr><td>DN</td><td>DOWN</td></tr> <tr><td>ECO</td><td>EXTERIOR CLEAN-OUT</td></tr> <tr><td>ET</td><td>THERMAL EXPANSION TANK</td></tr> <tr><td>EWC</td><td>ELECTRIC WATER COOLER</td></tr> <tr><td>EWH</td><td>ELECTRIC WATER HEATER</td></tr> <tr><td>EX</td><td>EXISTING</td></tr> <tr><td>FCO</td><td>FLOOR CLEAN-OUT</td></tr> <tr><td>FD</td><td>FLOOR DRAIN</td></tr> <tr><td>FM</td><td>FORCE MAIN</td></tr> <tr><td>FND</td><td>FUNNEL FLOOR DRAIN</td></tr> <tr><td>FS</td><td>FLOOR SINK</td></tr> <tr><td>FW</td><td>FILTERED WATER LINE</td></tr> <tr><td>GAS</td><td>GAS LINE</td></tr> <tr><td>GC</td><td>GENERAL CONTRACTOR</td></tr> <tr><td>GI</td><td>GREASE INTERCEPTOR</td></tr> <tr><td>GPF</td><td>GALLONS PER FLUSH</td></tr> <tr><td>GPM</td><td>GALLONS PER MINUTE</td></tr> <tr><td>GR</td><td>GAS REGULATOR</td></tr> <tr><td>GW</td><td>GREASE WATER LINE</td></tr> <tr><td>GWH</td><td>GAS WATER HEATER</td></tr> <tr><td>HB</td><td>HOSE BIBB</td></tr> <tr><td>HD</td><td>HUB DRAIN</td></tr> <tr><td>HI</td><td>HAIR INTERCEPTOR</td></tr> <tr><td></td><td>POINT OF CONNECTION TO EXISTING</td></tr> </table>	AAV	AIR ADMITTANCE VALVE	AC	AIR COMPRESSOR	AFF	ABOVE FINISHED FLOOR	AHJ	AUTHORITIES HAVING JURISDICTION	AS	AQUASTAT	BFF	BELOW FINISHED FLOOR	BFG	BELOW FINISHED GRADE	BTS	BARRIER TYPE SEAL-TRAP PRIMER	BTU	BRITISH THERMAL UNIT	CA	COMPRESSED AIR	CFH	CUBIC FEET PER HOUR	CL	CENTER LINE	CND	CONDENSATE DRAIN	CO	CLEAN-OUT	COOG	CLEAN-OUT ON GRADE	CW	COLD WATER LINE	DN	DOWN	ECO	EXTERIOR CLEAN-OUT	ET	THERMAL EXPANSION TANK	EWC	ELECTRIC WATER COOLER	EWH	ELECTRIC WATER HEATER	EX	EXISTING	FCO	FLOOR CLEAN-OUT	FD	FLOOR DRAIN	FM	FORCE MAIN	FND	FUNNEL FLOOR DRAIN	FS	FLOOR SINK	FW	FILTERED WATER LINE	GAS	GAS LINE	GC	GENERAL CONTRACTOR	GI	GREASE INTERCEPTOR	GPF	GALLONS PER FLUSH	GPM	GALLONS PER MINUTE	GR	GAS REGULATOR	GW	GREASE WATER LINE	GWH	GAS WATER HEATER	HB	HOSE BIBB	HD	HUB DRAIN	HI	HAIR INTERCEPTOR		POINT OF CONNECTION TO EXISTING	<table border="0" style="width: 100%;"> <tr><td>HW</td><td>HOT WATER LINE</td></tr> <tr><td>HWP</td><td>HOT WATER RECIRCULATION PUMP</td></tr> <tr><td>HWR</td><td>HOT WATER RETURN LINE</td></tr> <tr><td>HY</td><td>WALL 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NOTE:
CONTRACTORS SHALL VISIT THE SITE TO FAMILIARIZE WITH BUILDING CONDITIONS PRIOR TO SUBMITTING BID.

PIPING

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PROJECT DEMOLITION NOTES

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| <ol style="list-style-type: none"> 1. REMOVE EXISTING PLUMBING FIXTURES, EQUIPMENT, AND EQUIPMENT PADS TO THE EXTENT INDICATED ON THE PLUMBING AND ARCHITECTURAL DEMOLITION DRAWINGS. 2. REMOVE EXISTING WATER PIPING TO THE EXTENT INDICATED ON THE DRAWINGS. POINTS OF DISCONNECTION/RECONNECTION ON DRAWINGS ARE BASED BEST AVAILABLE INFORMATION AND SHALL BE FIELD LOCATED AND ADJUSTED ACCORDINGLY. UNLESS OTHERWISE INDICATED, INACCESSIBLE EXISTING UNDER-SLAB PIPING NOT INTERFERING WITH NEW CONSTRUCTION MAY BE ABANDONED IN PLACE AFTER COMPLETELY DISCONNECTING FROM NEW SYSTEM, DRAINING, CUTTING AND CAPPING BELOW GRADE. 3. REMOVE EXISTING SANITARY, WASTE, & VENT PIPING SYSTEMS TO THE EXTENT INDICATED ON THE DRAWINGS. POINTS OF DISCONNECTION/RECONNECTION ON PLANS ARE BASED BEST AVAILABLE INFORMATION AND SHALL BE FIELD LOCATED AND ADJUSTED ACCORDINGLY. INACCESSIBLE EXISTING UNDER-SLAB PIPING NOT INTERFERING WITH NEW CONSTRUCTION MAY BE ABANDONED IN PLACE AFTER COMPLETELY DISCONNECTING FROM NEW SYSTEM, DRAINING, CUTTING AND CAPPING BELOW GRADE. EXISTING VTR'S OF REQUIRED SIZE AND ACCEPTABLE CONDITION MAY BE RE-USED. | <ol style="list-style-type: none"> 4. EXISTING PIPING TO BE RE-USED IS SHOWN FADED. 5. RECOVER ALL REFRIGERANT IN ACCORDANCE WITH ALL FEDERAL, STATE AND LOCAL REQUIREMENTS. 6. PROPERLY DISPOSE OF ALL REMOVED MATERIAL OFFSITE. 7. ALL EQUIPMENT BEING REUSED SHALL BE INSPECTED FOR PROPER OPERATION AND REASONABLE CONDITION AND SHALL BE PRESSURE TESTED WITH THE NEW SYSTEM. ALL PIPING BEING REUSED SHALL BE VISUALLY INSPECTED FOR REASONABLE CONDITION, SLOPE AND INVERT, AS APPLICABLE; AND SHALL BE FLUSHED AND PRESSURE TESTED. 8. EXISTING PLUMBING SYSTEM, WHERE INDICATED, ARE BASED ON BEST AVAILABLE INFORMATION. CONTRACTOR SHALL VISIT SITE PRIOR TO BIDDING AND FIELD CONFIRM EXTENT OF DEMOLITION, EXISTING INVERTS, ETC. CONTRACTOR SHALL CONFIRM ALL EXISTING CONDITIONS AS DEMOLITION OCCURS. REFER TO ORIGINAL CONSTRUCTION DRAWINGS WHERE AVAILABLE FOR ADDITIONAL INFORMATION OF EXISTING CONDITIONS. |
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PROJECT PIPING NOTES

1. PROVIDE TRAPEZE PIPE HANGERS FOR PIPES 3 OR MORE. DOUBLE NUT U-BOLTS EVERY THIRD HANGER. U-BOLT SHALL BE LOOSELY FASTENED. INTENT IS NOT TO BIND OR HOLD PIPE, BUT ONLY TO PROVIDE LATERAL SEPARATION.
2. PROVIDE 1" X 1" X 1/8" ANGLE WELDED TO BOTH SIDES OF PIPE OF BAR JOIST IF PIPE HANGAR IS MORE THAN 6" AWAY FROM PANEL POINTS.
3. PROVIDE WATER HAMMER ARRESTORS FOR ALL GANG TOILET AREAS OR ANY OTHER SINGLE OR MULTIPLE WATER USING DEVICE.
4. FASTEN ALL INSULATION PIPE SHIELDS TO PIPE INSULATION WITH ADHESIVE.
5. ALL PIPE SUPPORT SYSTEMS SHALL NOT CRUSH THE INSULATION WHEN RESTING UPON THE SUPPORT. THE USE OF METAL SADDLES IS NECESSARY WHEN THE WEIGHT OF PIPE EXCEEDS THE WEIGHT SUPPORT LIMIT OF THE INSULATION.
6. PIPE SIZES MAY BE SHOWN FOR THE SAME PIPING ON MORE THAN ONE PLAN. IN CASE OF PIPE SIZE DISCREPANCY, THE LARGER PIPE SIZE SHALL BE CONSIDERED CORRECT DURING THE BIDDING AND DURING CONSTRUCTION UNLESS SPECIFICALLY APPROVED BY THE ARCHITECT/ENGINEER OTHERWISE.
7. PROVIDE SHUT-OFF VALVES FOR BOTH HOT AND COLD DOMESTIC WATER AT ALL RESTROOM LOCATIONS AND HEAT TRAPS FOR WATER HEATERS.
8. PROVIDE 1" INSULATION ON HOT WATER PIPING. REFER TO TABLE C403.2.10 OF THE 2020 FLORIDA ENERGY CONSERVATION CODE.
9. PIPE PENETRATIONS THROUGH FIRE RATED WALLS AND FLOORS SHALL BE INSULATED AND HAVE SPACE SEALED WITH FIRE STOP MATERIAL.
10. PROVIDE A POSI-SET SYSTEM GAS CONNECTION SYSTEM FOR ALL GAS APPLIANCES.

CAREN M. DOHERTY, P.E.
FL. P.E. #55021

DISAIE
DOHERTY SOMMERS
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JACKSONVILLE, FLORIDA 32216

SHEET TITLE: PLUMBING LEGEND AND PROJECT NOTES

NO.	DATE	REVISION

DRAWN BY: MJS

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SHEET

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PLUMBING FIXTURE SCHEDULE							
MARK	FIXTURE DESCRIPTION	MOUNTING HEIGHT	REMARKS	ROUGH-IN SIZES			
				COLD WATER	HOT WATER	WASTE	VENT
P-1A	TANK TYPE WATER CLOSET - (ADA)	SEAT @ 17"-19" AFF	ADA TANK TYPE WATER CLOSET, FLOOR MOUNTED, BOTTOM OUTLET, WHITE VITREOUS CHINA, SIPHON JET, PRESSURE ASSISTED 1.6 GPF, ELONGATED BOWL, WHITE SOLID COMMERCIAL HEAVY-DUTY PLASTIC ELONGATED. WATER CLOSET SHALL BE PROVIDED WITH CHROME-PLATED 3/8" FLEXIBLE SUPPLY. PROVIDE FLUSH HANDLE ON APPROACH SIDE OF STALL.	1/2"	N/A	4"	2"
P-2A	LAVATORY WALL MOUNTED (ADA)	RIM @ 34" AFF	ADA LAVATORY, WALL MOUNT, WHITE VITREOUS CHINA, APPROXIMATE DIMENSION OF 21" WIDE BY 18" FRONT TO REAR. PROVIDE ADA WIDESPREAD WING HANDLE FAUCET, AND 0.5 GPM AERATOR. PROVIDE LAVATORY COMPLETE WITH GRID DRAIN, CAST BRASS 1-1/4" TAILPIECE AND ADJUSTABLE P-TRAP, CHROME PLATED 3/8" FLEXIBLE SUPPLIES AND ANGLE STOP VALVES IN CHROME PLATED BRASS. PROVIDE COMPATIBLE CARRIER. PROVIDE PROTECTIVE ADA PIPE COVER. PROVIDE DEDICATED ANTI-SCALD VALVE; REFER TO PLUMBING SPECIALTIES SCHEDULE.	1/2"	1/2"	1-1/2"	2"
P-3	PRECAST / MOLDED MOP BASIN	FLOOR MOUNTED	MOP SERVICE BASIN, MOLDED STONE TO MATCH ARCHITECTURAL FOOTPRINT, CORNER BASIN TYPE 24"x24"x10" DEEP MINIMUM WITH STAINLESS STEEL DRAIN. PROVIDE STAINLESS STEEL RIM GUARDS, ADA COMPLIANT WALL MOUNTED FAUCET, 2.0 GPM, VACUUM BREAKER WITH 3/4" EXTERNAL THREADED HOSE CONNECTIONS, INTEGRAL STOPS, MOP HANGER AND HOSE ACCESSORIES, AND ADJUSTABLE WALL BRACE. PLUMBING CONTRACTOR PURCHASED AND INSTALLED. COORDINATE WITH OWNER UPON PURCHASING AND INSTALLATION.	1/2"	1/2"	3"	2"

NOTES:
1. VENT CONNECTIONS INDICATED APPLY TO INDIVIDUALLY VENTED FIXTURES AND ARE NOT APPLICABLE TO CIRCUIT VENTS, WET VENTS, COMBINATION DRAIN AND VENT SYSTEMS, ETC. REFER TO PLANS AND RISERS FOR SYSTEM CONFIGURATIONS AND SIZES FOR THESE SYSTEMS.
2. FLEXIBLE SUPPLIES, TRAPS, TAILPIECES AND OTHER ACCESSORIES NOT IN WALL CAVITIES SHALL BE STAINLESS STEEL OR CHROME PLATED.
3. REFER TO MANUFACTURER'S DATA FOR INSTALLATION AND CONNECTION SIZES.
4. CONTRACTOR SHALL VERIFY FIXTURE SELECTIONS WITH OWNER PRIOR TO PURCHASING AND ROUGH-IN.

PLUMBING SPECIALTIES SCHEDULE		
MARK	FIXTURE DESCRIPTION	REMARKS
WHA	WATER HAMMER ARRESTOR	WATER HAMMER ARRESTOR, STAINLESS STEEL OR COPPER CONSTRUCTION, BELLOWS OR PISTON TYPE, PRECHARGED, RATED FOR 250 PSI AT 300°F. SIZE AND INSTALL PER PDI GUIDELINES FOR FULL PROTECTION OF ALL FIXTURES. ASSE 1010 COMPLIANT.
TMV-P	POINT OF USE THERMOSTATIC MIXING VALVE (MOUNT UNDER SINK)	THERMOSTATIC MIXING VALVE, POINT OF USE ANTI-SCALD VALVE. VALVE SHALL BE BRONZE BODY WITH INTEGRAL CHECK VALVES ON INLET, AND AN ADJUSTMENT CAP WITH LOCKING FEATURE. PROVIDE DEDICATED VALVE FOR EACH LAVATORY AND SINK LOCATION. 0.25 GPM MIN. FLOW RATE, 1.7 GPM MAX. FLOW RATE, 5.0 PSI MAX. PRESSURE DROP AT MAX. FLOW. LEONARD 170A-LF OR APPROVED EQUAL. ASSE STANDARD 1070 COMPLIANT, ADJUSTABLE DOWN TO 110°F. VALVE TO BE LABELED CSA B125 CERTIFIED.
TPV-2	TRAP PRIMER VALVE - MECHANICAL SINGLE TRAP	TRAP PRIMER VALVE, CORROSION RESISTANT BRASS WITH 1/2" INLET AND OUTLET CONNECTIONS. PROVIDE UNION UPSTREAM OF EACH TRAP PRIMER VALVE. ASSE 1018 LISTED.
BTS	TRAP PRIMER - BARRIER TYPE SEAL THIS DEVICE SHALL NOT BE USED IN LIEU OF A TRAP PRIMER WHERE A TRAP PRIMER IS REQUIRED BY CODE	WATERLESS 2", 3", 4" IN-LINE WATERLESS FLOOR DRAIN TRAP SEALER, WITH UV RESISTANT ABS PLASTIC FRAME, HDPE HOUSING, EPDM SEALING GASKET, ASSE 1072 RATED. CONTRACTOR TO VERIFY IF BARRIER TRAP SEALS ARE APPROVED BY JURISDICTION AND INSTALL IN ACCORDANCE PER MANUFACTURER'S INSTRUCTIONS. BASIS OF DESIGN: ZURN; JONES STEPHENS; SIOUX CHIEF; IPS; RECTOR SEAL OR APPROVED EQUIVALENT.

WATER HEATER SCHEDULE - ELECTRIC									
MARK	FIXTURE DESCRIPTION	LOCATION	STORAGE CAPACITY (GALLONS)	HOURLY RECOVERY RATE (GPH)	WATER TEMP. RISE (°F)	WATER CONNECTION SIZE (IN.)	ELEMENT TYPE	ELEMENT CAPACITY (EACH), kW	ELECTRICAL (V/PH/Hz)
EW1	COMMERCIAL ELECTRIC WATER HEATER - LOWBOY	AC CLOSET #102	6	11	55	3/4"	C	3	240/1/60
EW2	COMMERCIAL ELECTRIC WATER HEATER - LOWBOY	AC CLOSET #104	6	11	55	3/4"	C	3	240/1/60

ELEMENT TYPE:
A. DUAL ELEMENT, EACH AT SCHEDULED kW, NON-SIMULTANEOUS OPERATION.
B. DUAL ELEMENT, EACH AT SCHEDULED kW, SIMULTANEOUS OPERATION.
C. SINGLE ELEMENT, WALL MOUNT KIT.

NOTES AND ACCESSORIES:
1. DESIGN BASED ON A.O. SMITH MODEL DEL-6 OR APPROVED EQUAL.
2. PROVIDE 2.1 GALLON, NSF 61 RATED BLADDER EXPANSION TANK ET-1.
3. EFFICIENCY SHALL MEET OR EXCEED ASHRAE 90.1, LATEST VERSION, REQUIREMENTS FOR ENERGY FACTOR (EF). STANDBY LOSS (LS) SHALL NOT EXCEED LIMITATIONS OF ASHRAE 90.1, LATEST VERSION.
4. PROVIDE ASMI Z21.22 RATED RELIEF VALVE SIZED BY MANUFACTURER.
5. ELEMENT CAPACITY IS AT INDICATED VOLTAGE.
6. REFER TO MANUFACTURER'S DATA FOR INSTALLATION AND CONNECTION SIZES.

DRAINAGE AND CLEANOUT SCHEDULE	
MARK	REMARKS
FD	FLOOR DRAIN - CAST-IRON BODY WITH ADJUSTABLE 7" ROUND STRAINER HEAD TOP ON 3" BODY, INTEGRAL FLASHING COLLAR, SEEPAGE OPENINGS, POLISHED NICKEL BRONZE STRAINER FINISH, NEO-LOCK OUTLET, TRAP PRIMER CONNECTION, AND TAP AND TY-SEAL OUTLET.
WCO	WALL CLEANOUT - RAISED SQUARE OR RECESSED SQUARE PLUG WITH ROUND SMOOTH STAINLESS STEEL WALL ACCESS COVER.
HD	HUB DRAIN - OPEN-ENDED CAST-IRON BODY HUB DRAIN PIPE, OR PVC, NSF LISTED, FULL PIPE SIZE, FOR ABOVE THE FLOOR DRIP CONDENSATE, WITH DEEP SEAL TRAP. INSTALL INCREASE ONE PIPE SIZE LARGER. PROVIDE WITH NICKEL BRONZE STRAINER FINISH, TRAP PRIMER CONNECTION AND TRAP GUARD INSERT.

NOTES:
1. REFER TO MANUFACTURER'S DATA FOR INSTALLATION AND CONNECTION SIZES.

WATER HAMMER ARRESTOR SCHEDULE				
I.P.S.	F.U. RATING	SIOUX CHIEF	UNIT SIZE	REMARKS
3/4"	1-11	652-A	A	P.D.I. CERTIFIED
3/4"	12-32	653-B	B	P.D.I. CERTIFIED
1"	33-60	654-C	C	P.D.I. CERTIFIED
1"	61-113	655-D	D	P.D.I. CERTIFIED
1"	114-154	656-E	E	P.D.I. CERTIFIED
1"	155-330	657-F	F	P.D.I. CERTIFIED

NOTE: ALL WATER HAMMER ARRESTORS PROVIDED MUST MEET ASSE 1010 AND MANUFACTURER'S REQUIREMENTS. SCHEDULE BASED ON STANDARD PDI-WH-201.

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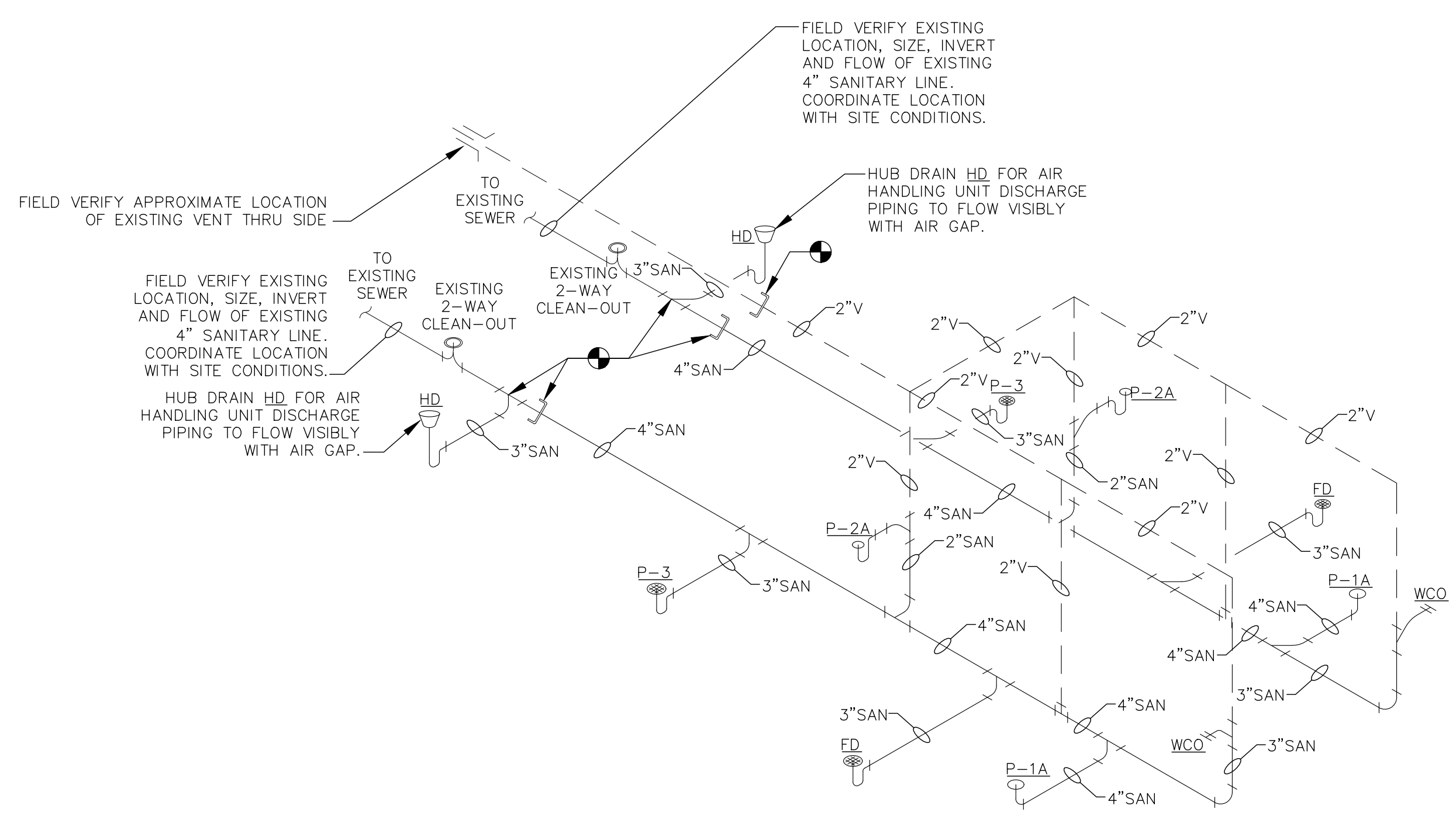
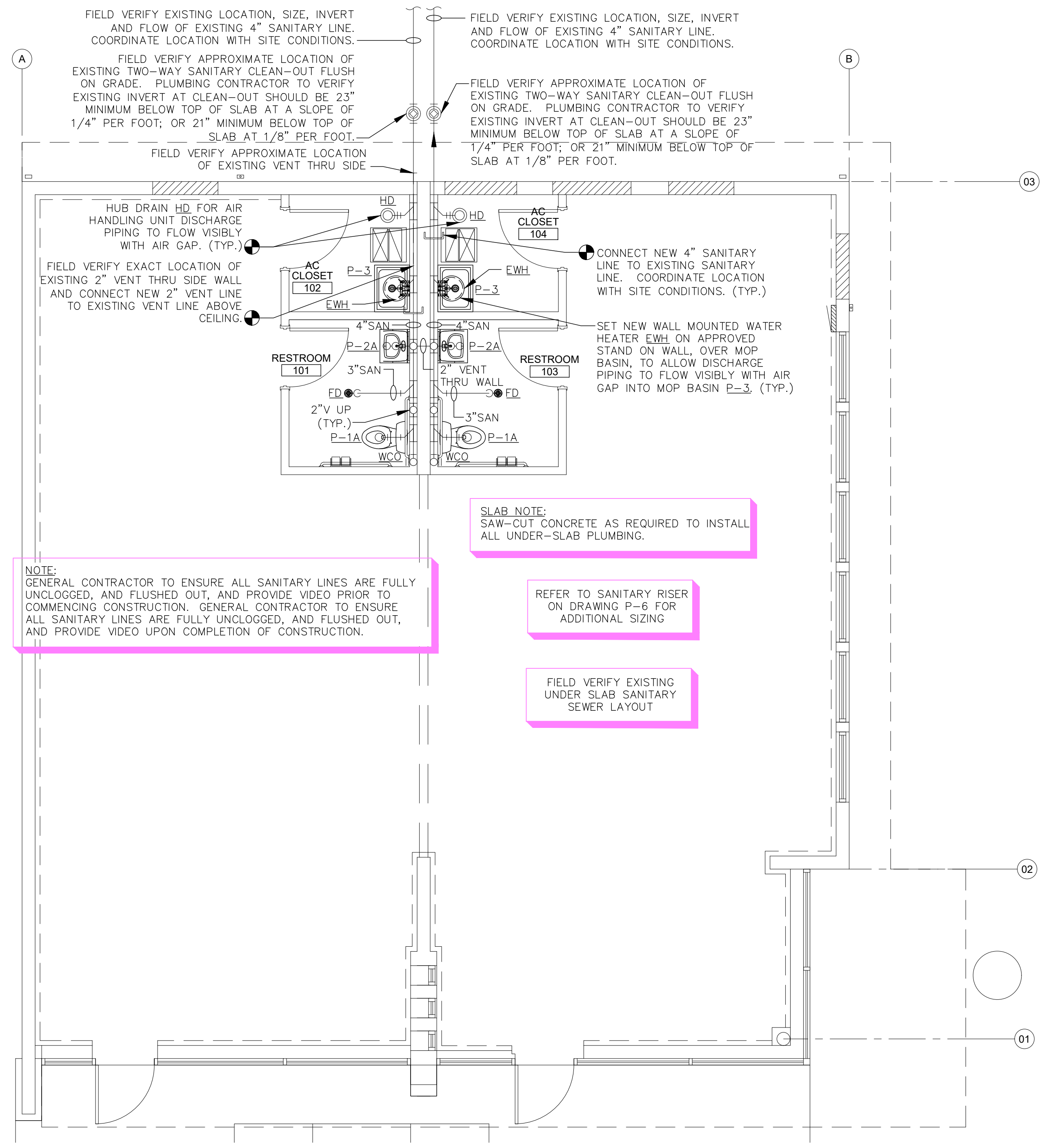
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SHEET TITLE: SANITARY WASTE PLAN AND SANITARY RISER	
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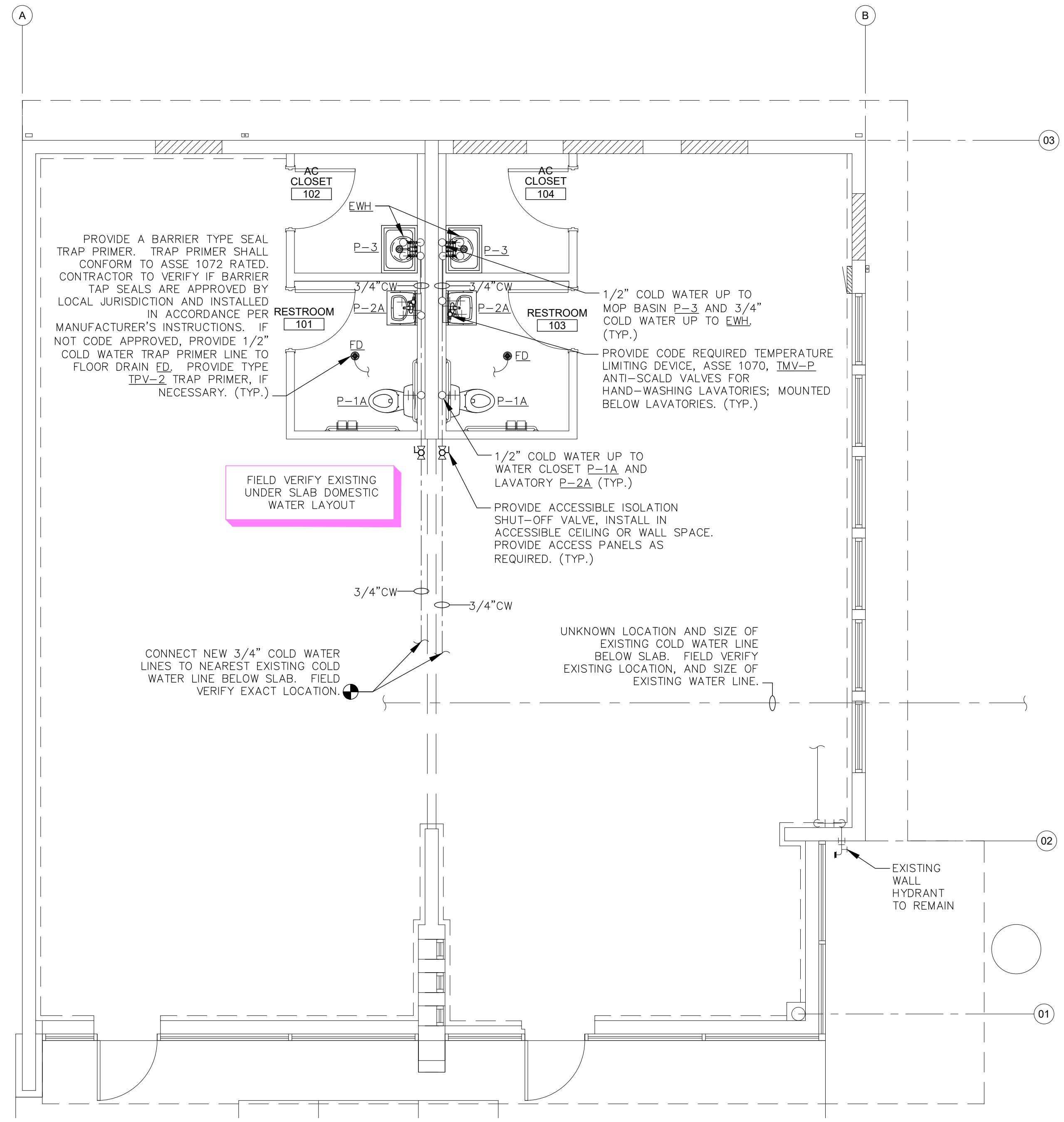


SANITARY RISER DIAGRAM
 SCALE: N.T.S.

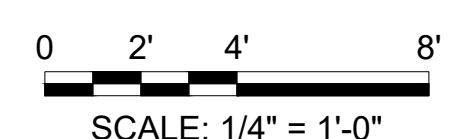
SANITARY WASTE PLAN
 SCALE: 1/4" = 1'-0"

0 2' 4' 8'
 SCALE: 1/4" = 1'-0"

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DOMESTIC WATER PLAN
 SCALE: 1/4"=1'-0"



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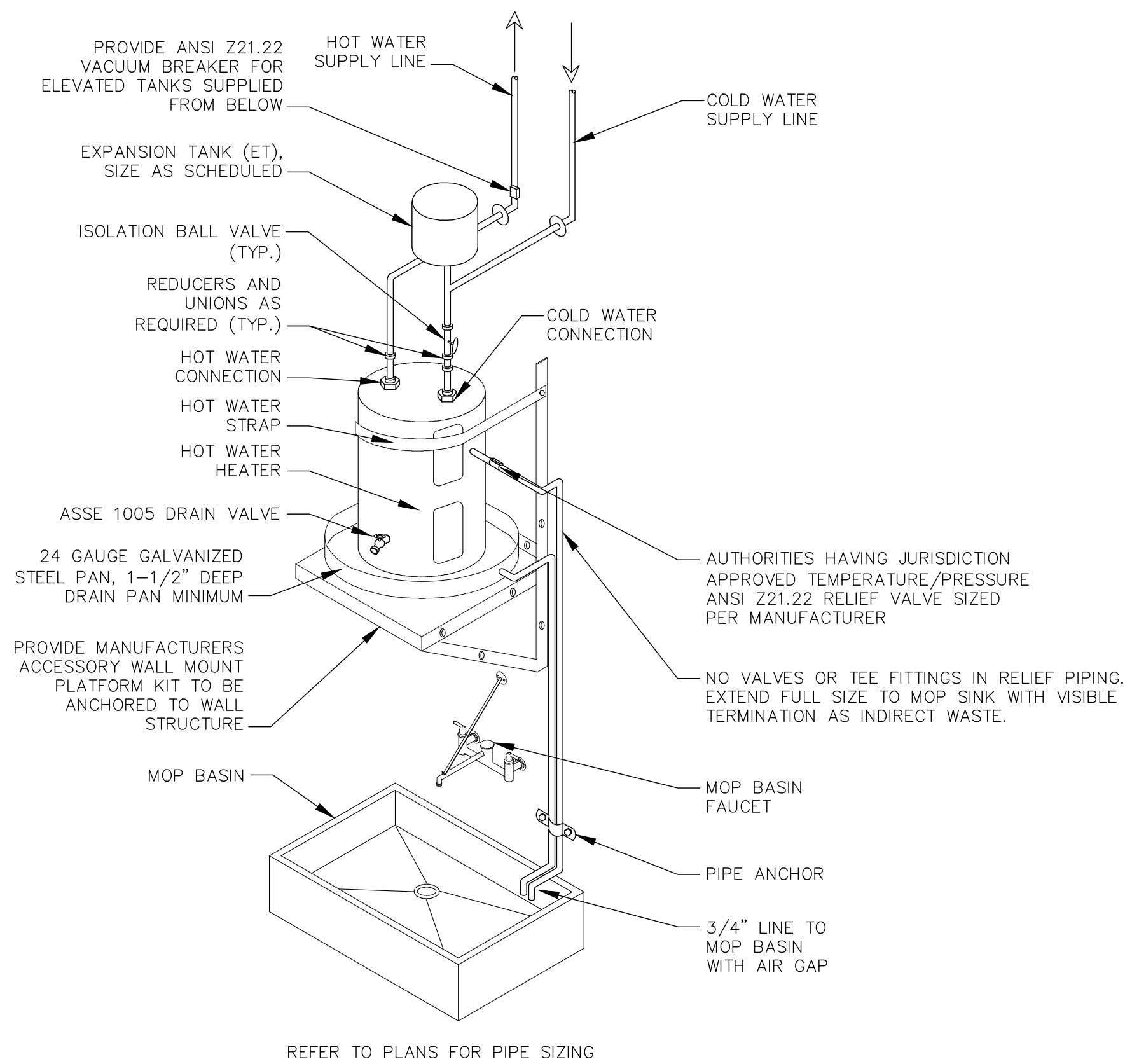
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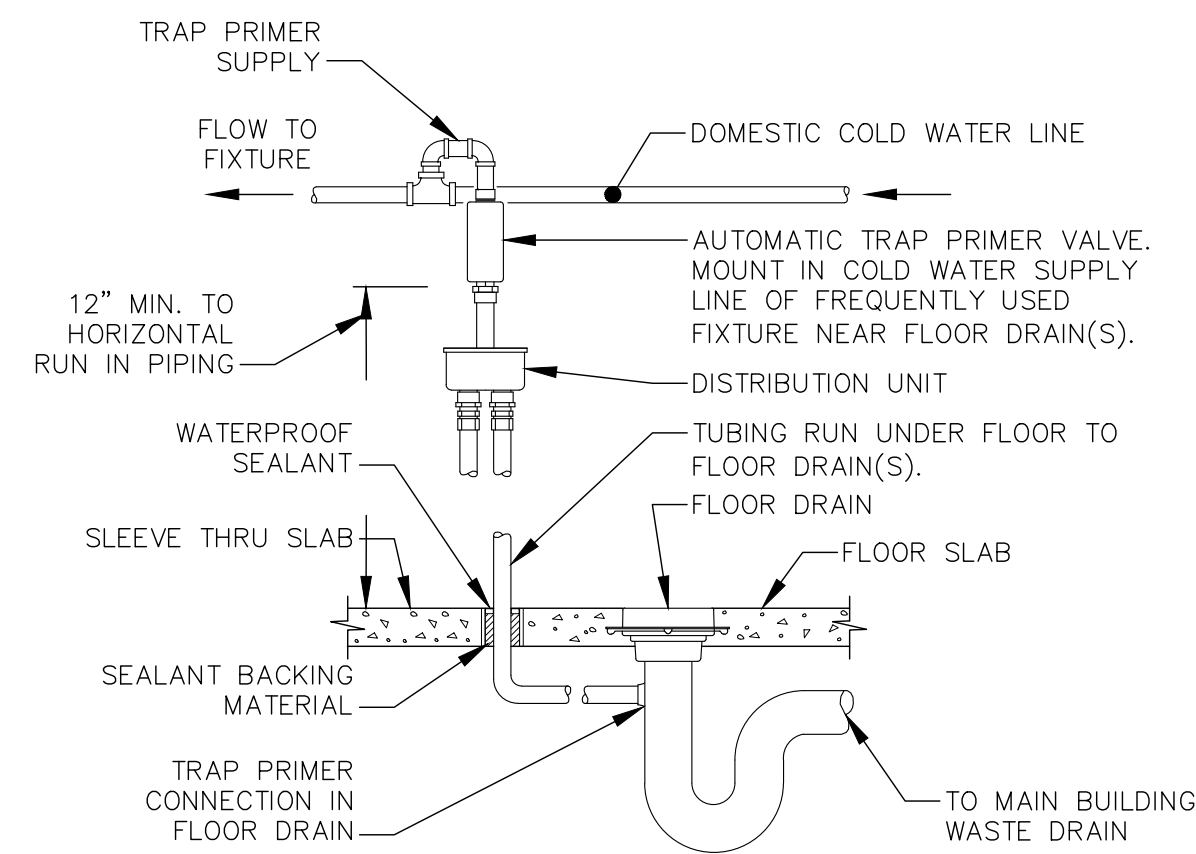


NOTES:

1. PROVIDE HEAT TRAPS ON INLET AND OUTLET IF NOT INTEGRAL WITH UNIT.
2. INSTALL PER MANUFACTURER'S INSTRUCTIONS.
3. USE COPPER PIPE CONNECTIONS WHERE RECOMMENDED BY MANUFACTURER.

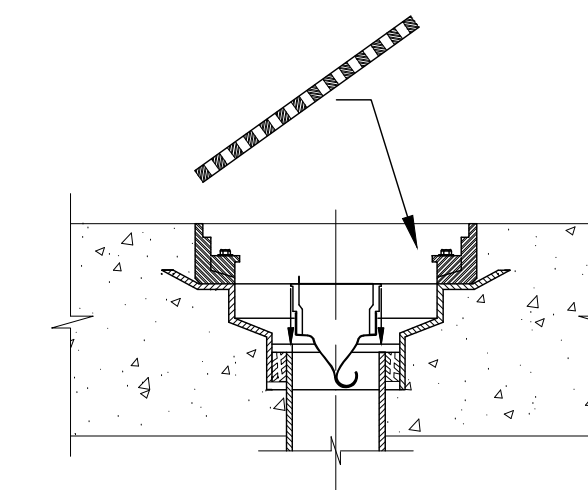
ELECTRIC WALL MOUNTED WATER HEATER DETAIL (EWH)

SCALE: N.T.S.



TRAP PRIMER DETAIL (TPV)

SCALE: N.T.S.



IMPORTANT NOTES:

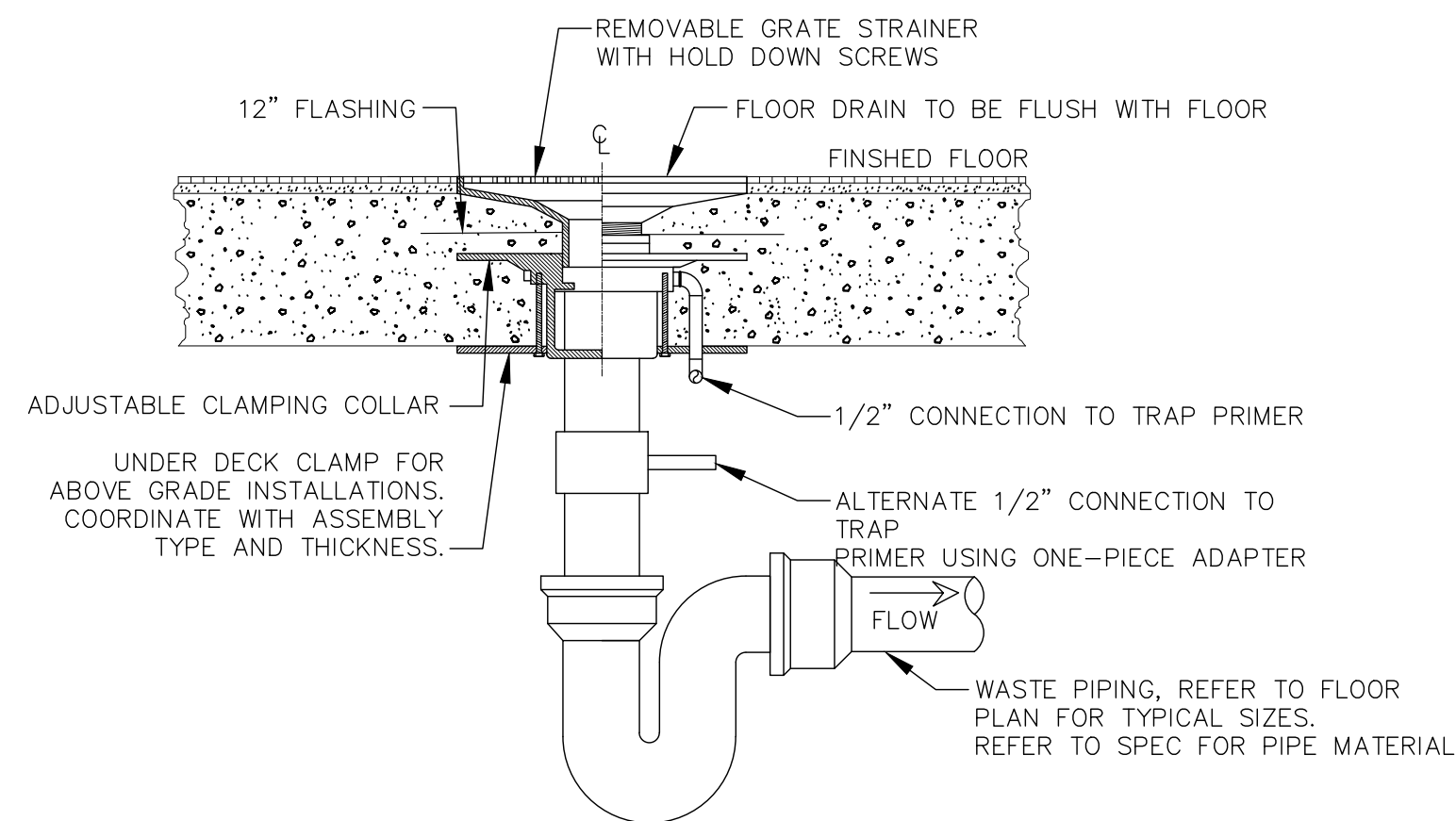
1. THIS INSERT CAN BE INSTALLED INTO ANY GASKETED OPEN ENDED PIPE TO PREVENT SEWER GAS EMISSION.
2. THEY CAN BE INSERTED INTO A GASKETED OPEN ENDED PIPE THAT CONNECTS LARGER TOP FLOOR DRAINS.
3. THEY CAN BE INSERTED INTO A GASKETED OPEN ENDED PIPE THAT CONNECTS FLOOR SINKS AND HUB DRAINS.
4. TO MAKE A WATERTIGHT SEAL, USE AN ADHESIVE TYPE CAULK UNDER THE TOP FLANGE AND THE GASKET MATERIAL.

IF THE TRAP GUARD DEVICE SHOULD GET DAMAGED OR IMPAIRED IN ANY WAY, THE DEVICE CAN BE EASILY REMOVED BY USING A SHARP SCREWDRIVER UNDER THE FLANGE.

CARE SHOULD BE TAKEN NOT TO TOUCH THE ELASTOMERIC FLEXIBLE MATERIAL WITH THE PRIMER.

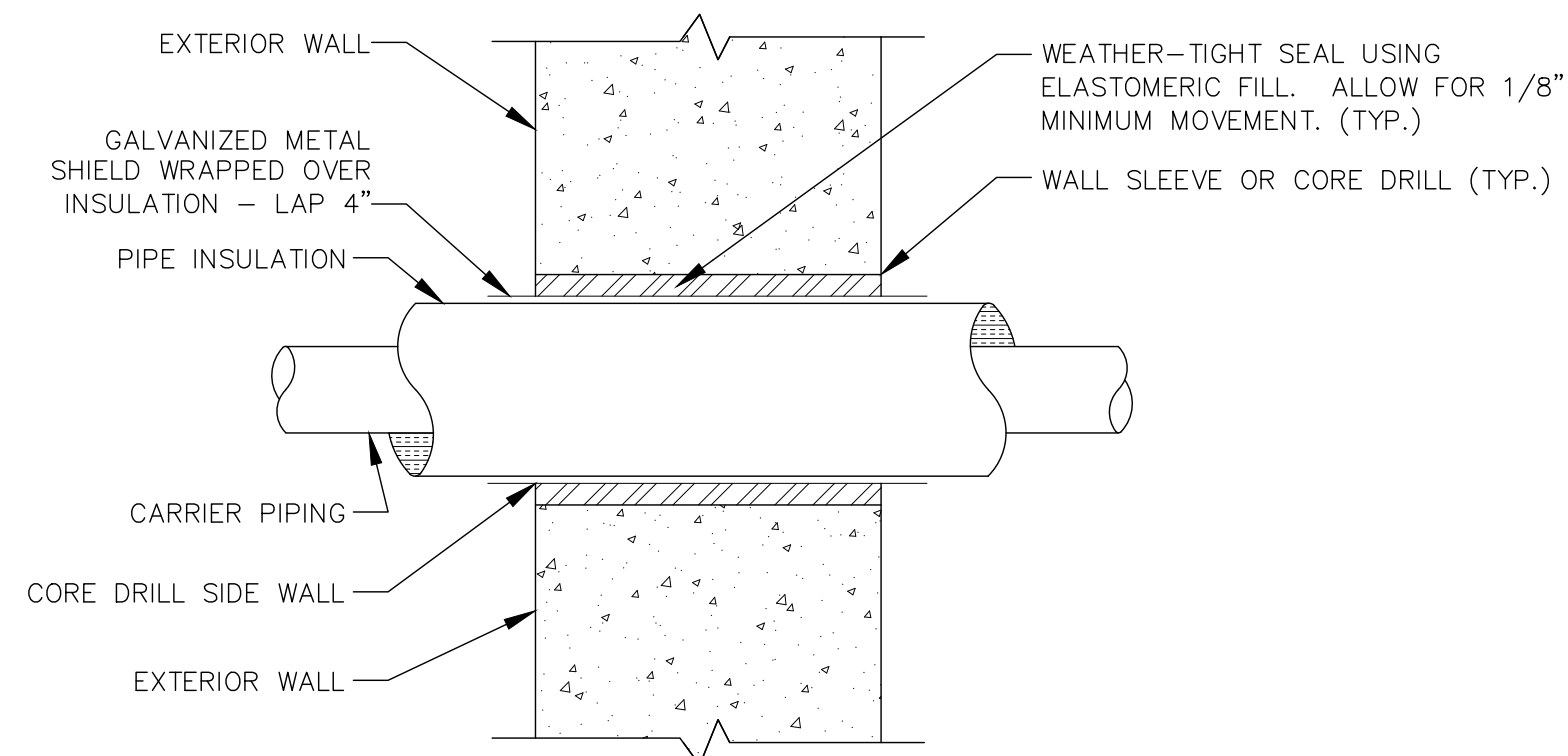
FLOOR DRAIN TRAP GUARD DETAIL

SCALE: N.T.S.



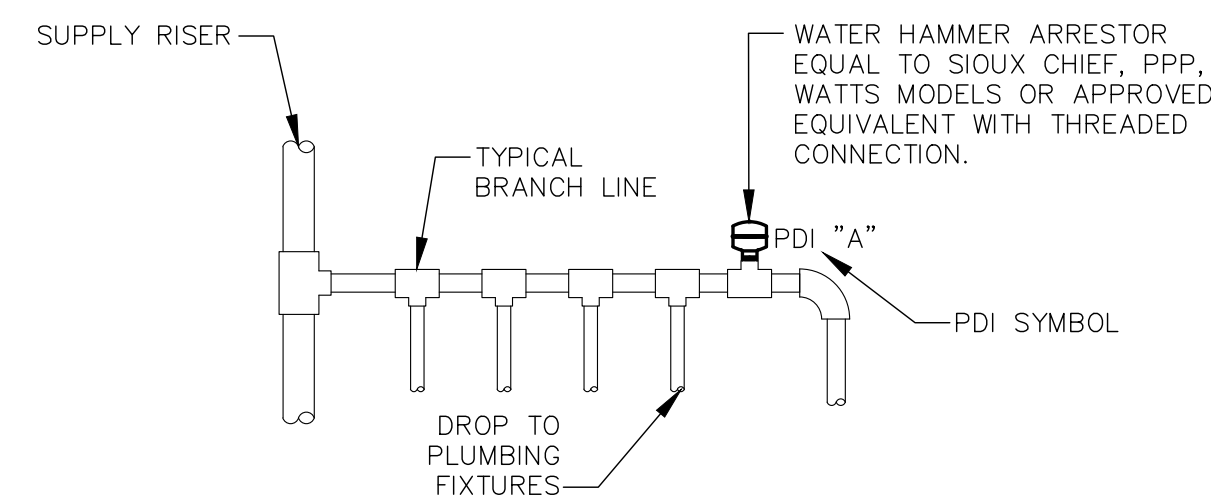
FLOOR DRAIN DETAIL (FD)

SCALE: N.T.S.



TYPICAL PIPE SLEEVE THRU WALL DETAIL

SCALE: N.T.S.

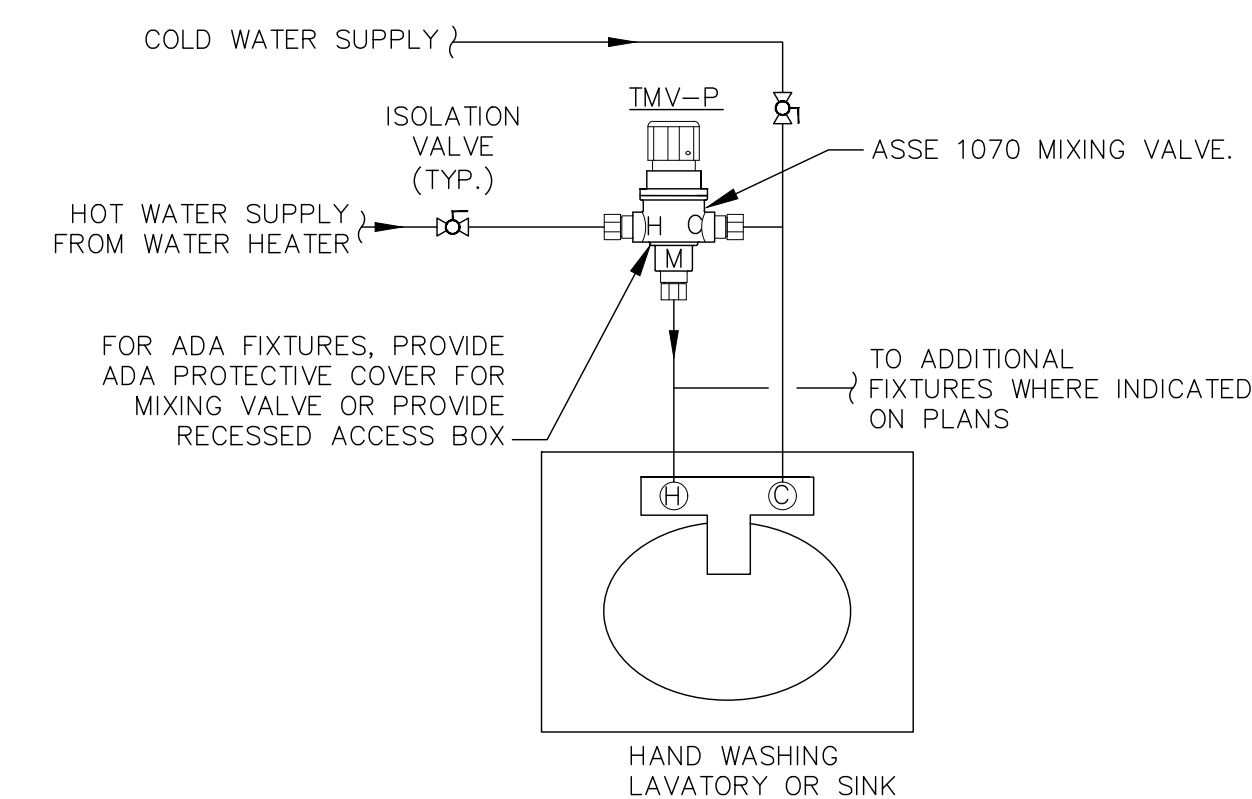


WATER HAMMER NOTES:

1. DO NOT PROVIDE AIR CHAMBERS.
2. PROVIDE A WATER HAMMER ARRESTOR ON EACH HOT AND COLD WATER DROP.
3. PREFERRED INSTALL WATER HAMMER ARRESTORS AT THE END OF BRANCH LINE BETWEEN THE LAST TWO FIXTURES SERVED.
4. ONE WATER HAMMER ARRESTOR PER 20 FEET OF LINE AND ANOTHER FOR BRANCHES OVER 20 FEET IN LENGTH.
5. THE SUM OF THE FIXTURE UNIT RATING OF UNITS OVER 20 FEET IN LENGTH SHALL BE EQUAL TO OR GREATER THAN THE DEMAND OF THE BRANCHES.
6. WATER ARRESTORS SHOULD ALWAYS BE INSTALLED SO THAT THERE IS AN UNOBSTRUCTED SHOCK PATH TO THE ARRESTOR. INSTALL IN-LINE WITH WATER FLOW IF POSSIBLE.
7. WATER ARRESTOR SHOULD ALWAYS BE PLACED AS NEAR TO THE SOURCE OF SHOCK AS POSSIBLE.
8. ALL WATER ARRESTORS PROVIDED MUST MEET ASSE 1010 AND MANUFACTURER'S REQUIREMENTS. INSTALL PER PDI STANDARDS AND MANUFACTURER'S REQUIREMENTS.
9. INSTALL IN HORIZONTAL OR VERTICAL POSITIONS ONLY.
10. PROVIDE ACCESSIBILITY TO WATER HAMMER ARRESTORS WHERE REQUIRED BY LOCAL CODE.
11. PROVIDE WATER HAMMER ARRESTORS FOR ALL QUICK-CLOSING VALVES.

WATER HAMMER ARRESTOR DETAIL

SCALE: N.T.S.



ANTI-SCALD DEVICE DETAIL (TMV-P)

SCALE: N.T.S.

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