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CODE REQUIREMENTS

THE PROJECT IS A REMODEL FOR AN EXISTING BUILDING AND AN ADDITION OF A NEW BUILDING FOR CAR SERVICING.

FLORIDA BUILDING CODE 7th EDITION (2020)
 FLORIDA FIRE PREVENTION CODE 7th EDITION (ENCOMPASSING THE 2018 EDITIONS OF NFPA 1 & NFPA 101)
 FLORIDA BUILDING CODE - ACCESSIBILITY 7th EDITION (2020)

THE BUILDING IS NOT EQUIPPED WITH AN AUTOMATIC SPRINKLER SYSTEM.
 OCCUPANCY CLASSIFICATION OF TENANT SPACE: MODERATE-HAZARD STORAGE (S-1) FBC 311.2; NFPA 3.3.134.14 AND CHAPTER 42.
 THE USE OF A BUILDING OR PORTION THEREOF FOR STORAGE USES NOT CLASSIFIED AS HAZARDOUS OCCUPANCY ACCESSORY USE: BUSINESS (B) NFPA 3.3.39, 3.3.190.3 CHAPTER 36
 NON-SEPARATED USE PER FBC 508.3 AND INCIDENTAL USE AREA PER NFPA 6.1.14.1.4(2) AND 6.1.14.1.3(1).
 OCCUPANCIES & MOST RESTRICTIVE REQUIREMENTS APPLY (FBC 508.3.1)

CONSTRUCTION: FBC SECTION 602.2 - TYPE VB, NON-SPRINKLERED
 ALLOWABLE HEIGHTS AND BUILDING AREAS: - TYPE VB, NON-SPRINKLERED

MAX. HEIGHT - 40'-0" (NS) STORAGE & BUSINESS FBC TABLE 504.3
 MAX. STORIES - 1 FOR S-1 & 2 FOR BUSINESS (NS) FBC TABLE 504.4
 BASIC ALLOWABLE AREA - 9,000 SQ. FT. (STORAGE S-1) & BUSINESS FBC TABLE 506.2

EXISTING BUILDING AREA: 1,717 SF
 NEW BUILDING AREA: 2,467 SF
 TOTAL BUILDING AREA: 4,184 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 S-1
< 5	OTHERS	2
≥ 5 < 10	OTHERS	1
≥ 10 < 30	OTHERS	0
≥ 30	ALL	0

SINGLE EGRESS REQUIREMENT WITHOUT A FIRE SPRINKLER SYSTEM:
 BUSINESS - MAXIMUM 49 OCCUPANTS FOR A SPACE WITH ONE MEANS OF EGRESS (FBC TABLE 1006.2.1)
 COMMON PATH OF TRAVEL DOES NOT EXCEED THE LIMITATIONS OF FBC 1006.2.1 - 100' OCCUPANT LOAD LESS THAN 30 PEOPLE (NFPA TABLE A.7.6) - 75'
 BUSINESS OCCUPANCY - SINGLE EXIT BUILDING; MAXIMUM 1 STORY ABOVE GROUND PLANE. MAXIMUM 50 OCCUPANTS AND MAXIMUM TRAVEL DISTANCE 75 FT (FBC TABLE 1006.2.1)
 BUSINESS OCCUPANCY - SINGLE EXIT PERMITTED IF DISTANCE TO EXIT IS LESS THAN 75 FT (FBC 1006.3.2(2))

OCCUPANT LOAD:
 MINIMUM OCCUPANT LOAD - FBC TABLE 1004.1.2 (NFPA TABLE 7.3.1.2 & 42.1.7):
 STORAGE 300 SQ FT PER PERSON
 BUSINESS 150 SQ FT PER PERSON

GARAGE BAYS	2,270 SF / 200 SF PER PERSON	= 12 OCCUPANTS
STORAGE	588 SF / 300 SF PER PERSON	= 02 OCCUPANTS
RECEPTION	160 SF / 15 SF PER PERSON	= 11 OCCUPANTS
OFFICE	180 SF / 150 SF PER PERSON	= 02 OCCUPANTS
TOTAL		= 26 OCCUPANTS

INTERIOR FINISHES:
 MINIMUM AS REQUIRED BY FBC TABLE 803.9 (NON-SPRINKLERED):

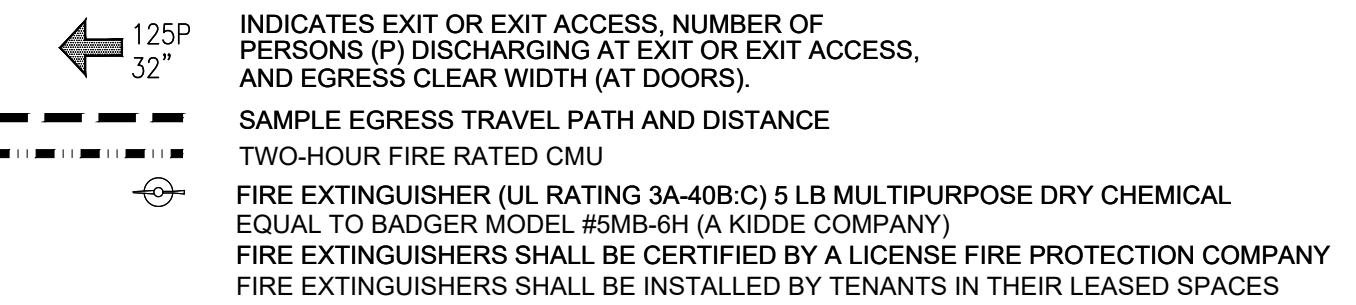
OCCUPANCY	VERTICAL EXITS	EXIT ACCESS CORRIDORS	ROOMS & ENCLOSED SPACES
BUSINESS	B	C	C
STORAGE	C	C	C

AS REQUIRED BY NFPA 101 TABLE A.10.2.2:

OCCUPANCY	VERTICAL EXITS	EXIT ACCESS CORRIDORS	ROOMS & ENCLOSED SPACES
BUSINESS	A OR B I OR II	A OR B	A, B OR C
STORAGE	A OR B I OR II	A, B OR C I OR II	A, B OR C NA

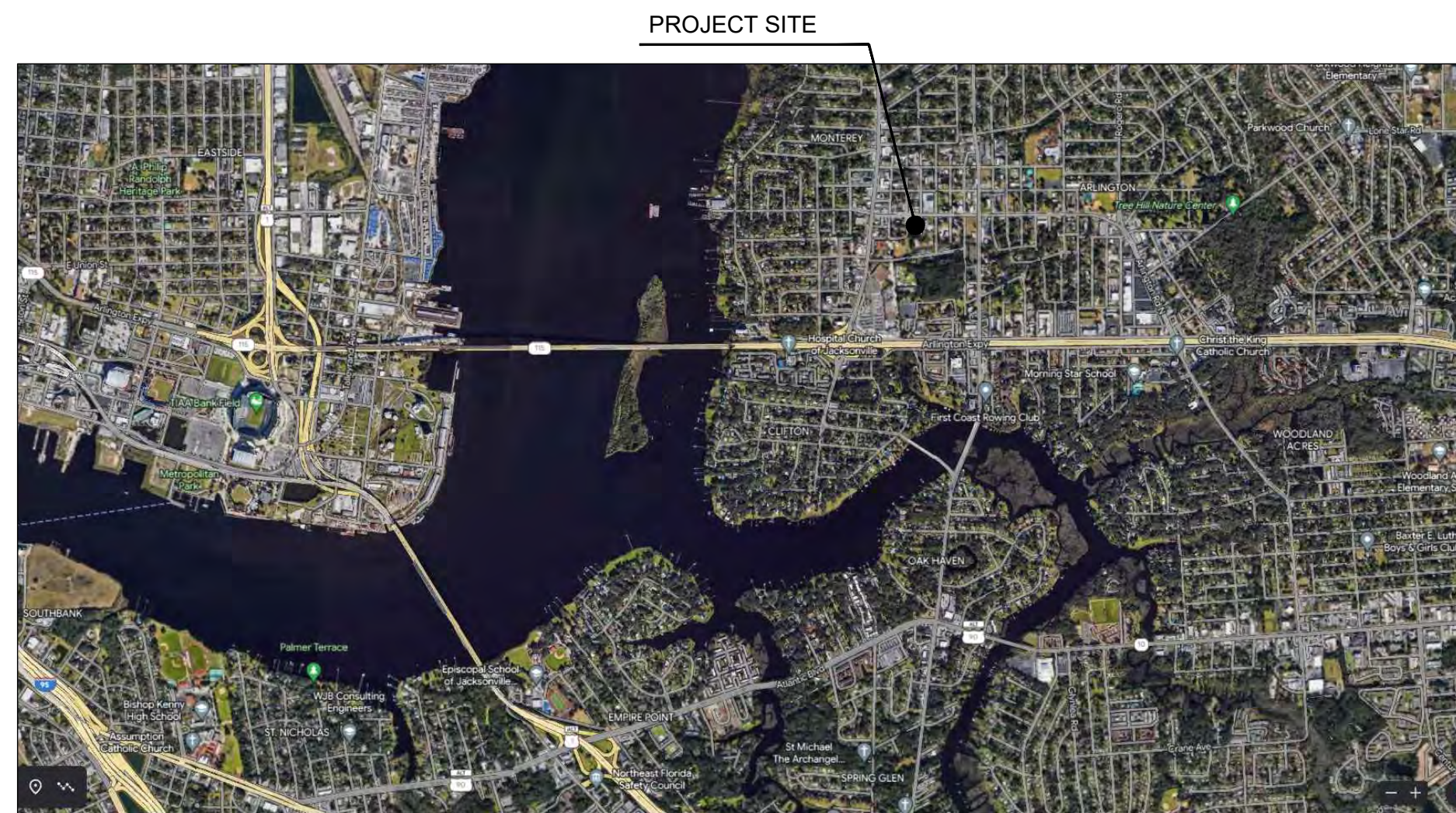
CLASS A INTERIOR WALL AND CEILING FINISH - FLAME SPREAD 0-25; SMOKE DEVELOPED 0-450
 CLASS B INTERIOR WALL AND CEILING FINISH - FLAME SPREAD 26-75; SMOKE DEVELOPED 0-450
 CLASS C INTERIOR WALL AND CEILING FINISH - FLAME SPREAD 76-200; SMOKE DEVELOPED 0-450

MEANS OF EGRESS:
 MAXIMUM TRAVEL DISTANCE, DEAD END LENGTH, EXIT AND MEANS OF EGRESS WIDTH: FBC 1005.3.1 & 1005.3.2 & TABLE 1017.2; NFPA TABLE A.7.6.1:
 MAXIMUM TRAVEL DISTANCE TO EXIT (NON-SPRINKLERED): 200 FT; (FBC 1017.2.2)
 NFPA 101 - 200 FT (BUSINESS & STORAGE S1 - NFPA 42.2.6.2)
 MAXIMUM DEAD END CORRIDOR LENGTH (NONSPRINKLED): 20 FT; (FBC 1020.4)
 NFPA 101 - 20 FT (STORAGE)
 OTHER EGRESS COMPONENTS (WIDTH PER PERSON SERVED) :
 LEVEL = .02" (0.2" x 26 OCCUPANTS = 5.2" REQUIRED)
 MINIMUM CORRIDOR AISLE WIDTH: 44" (FBC 1017.3 & 1018.2)
 MINIMUM CLEAR WIDTH OPENING OF EXIT DOORS: 32" (32"/0.2" PER PERSON = 160 PERSONS)
 COMMON PATH OF TRAVEL (NON-SPRINKLERED): 75 FT (FBC 1006.3);
 NFPA 101 - 75 FT (STORAGE)
 DOORS SHALL SWING IN THE DIRECTION OF EGRESS EXCEPT WHEN SERVING AN OCCUPANT LOAD OF LESS THAN 50 (FBC 1008.1.2)



CLASS A FIRES (ORDINARY COMBUSTIBLE MATERIALS SUCH AS WOOD, CLOTH, PAPER RUBBER AND MANY PLASTICS)
 CLASS B FIRES (LIQUIDS, TAR, 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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STREET MAP

SCALE: N.T.S.

PLUMBING FIXTURE COUNT PER TABLE 403.1 FLORIDA PLUMBING CODE

STORAGE (S-1)	
WATER CLOSETS	1 WC PER 100 MALE/FEMALE
LAVATORIES	1 LAV PER 100 MALE/FEMALE
DRINKING FOUNTAINS	1 LAV PER 1,000
TOTAL OCCUPANT LOAD STORAGE S1 - 26 13 MALES 13 FEMALES	
2 REQUIRED WATERCLOSET 2 REQUIRED LAVATORIES 1 REQUIRED "HI-LO" DRINKING FOUNTAIN	

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

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 7.2.1.5.

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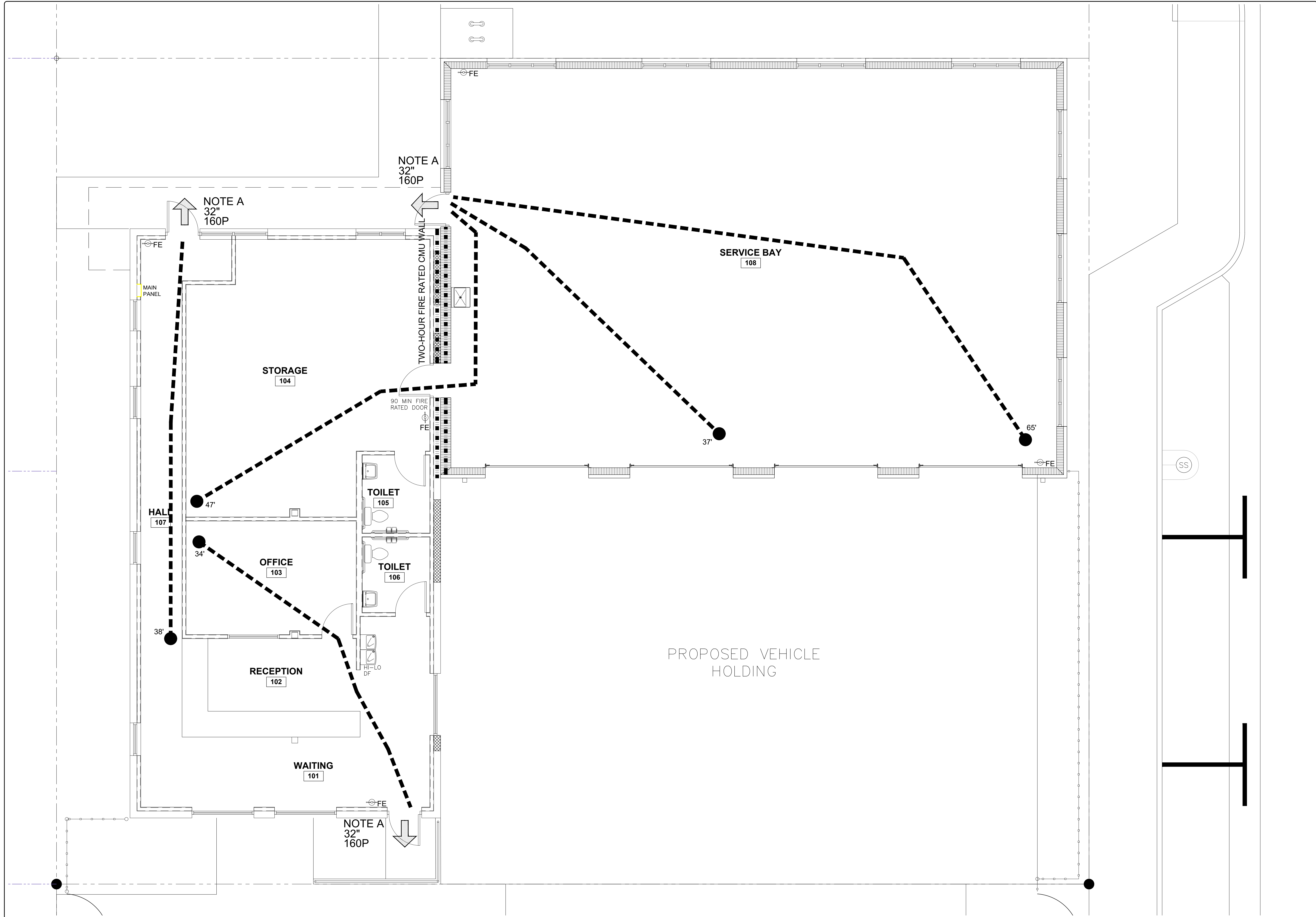
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 5760 ARLINGTON ROAD
 JACKSONVILLE, FLORIDA 32211

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	NO.	DATE

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SHEET
G-1



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

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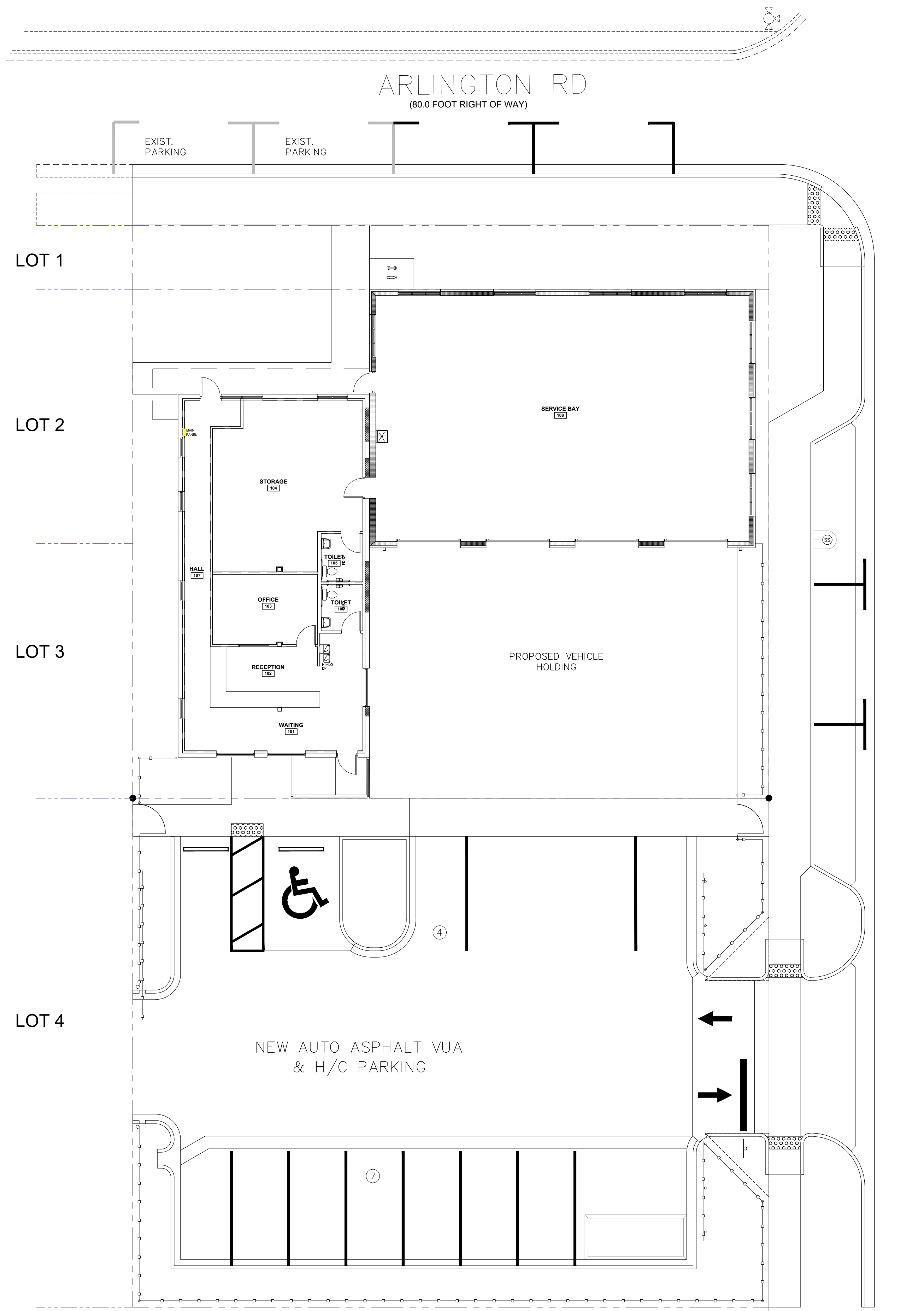
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SHEET
G-2



SITE PLAN

SCALE: 3/32"=1'-0"



ROMNEY ST
(50.0 FOOT RIGHT OF WAY)

ARLINGTON RD
(80.0 FOOT RIGHT OF WAY)

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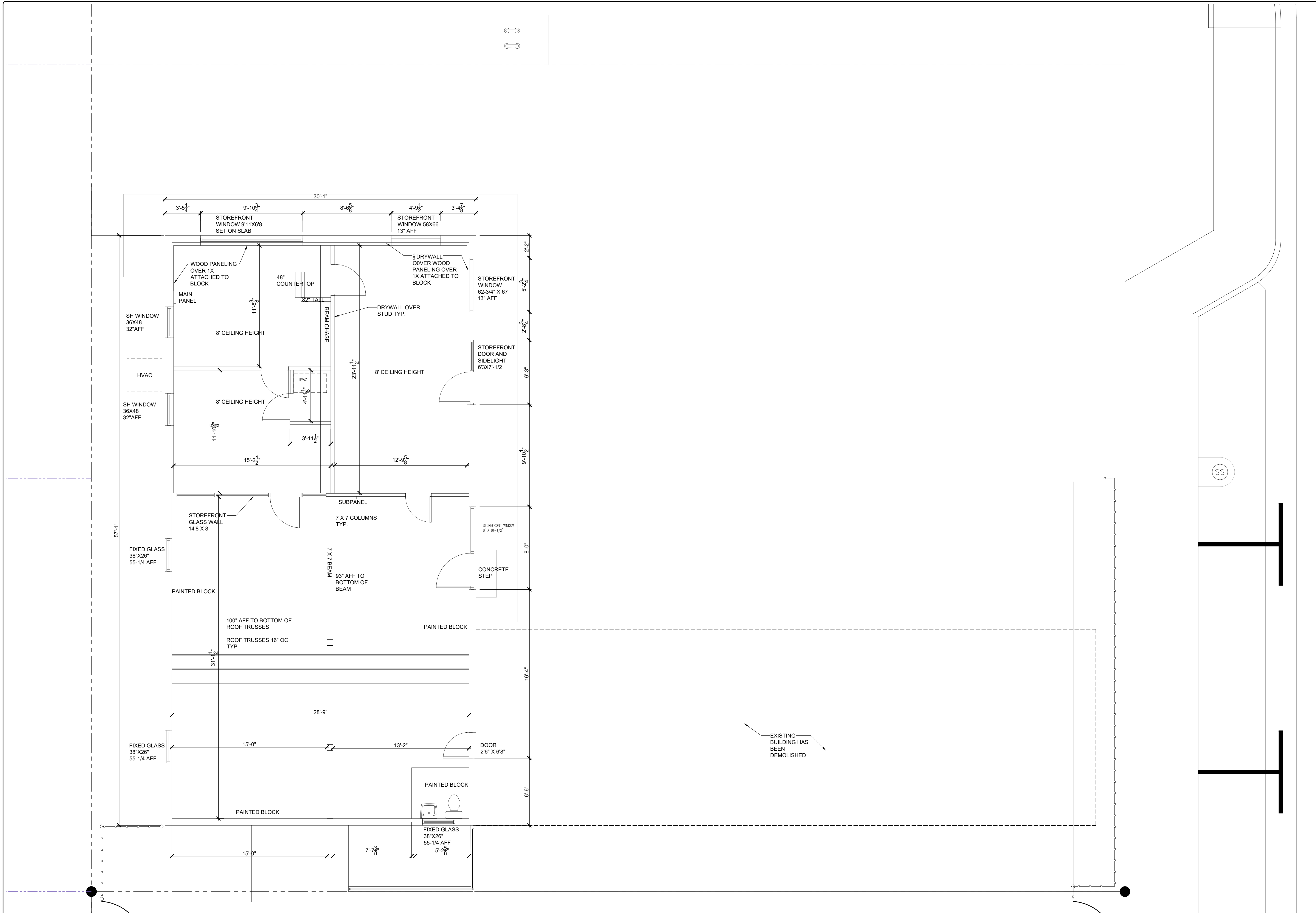
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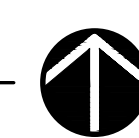
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SHEET
C-2

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EXISTING FLOOR PLAN
 SCALE: 1/4"=1'-0"



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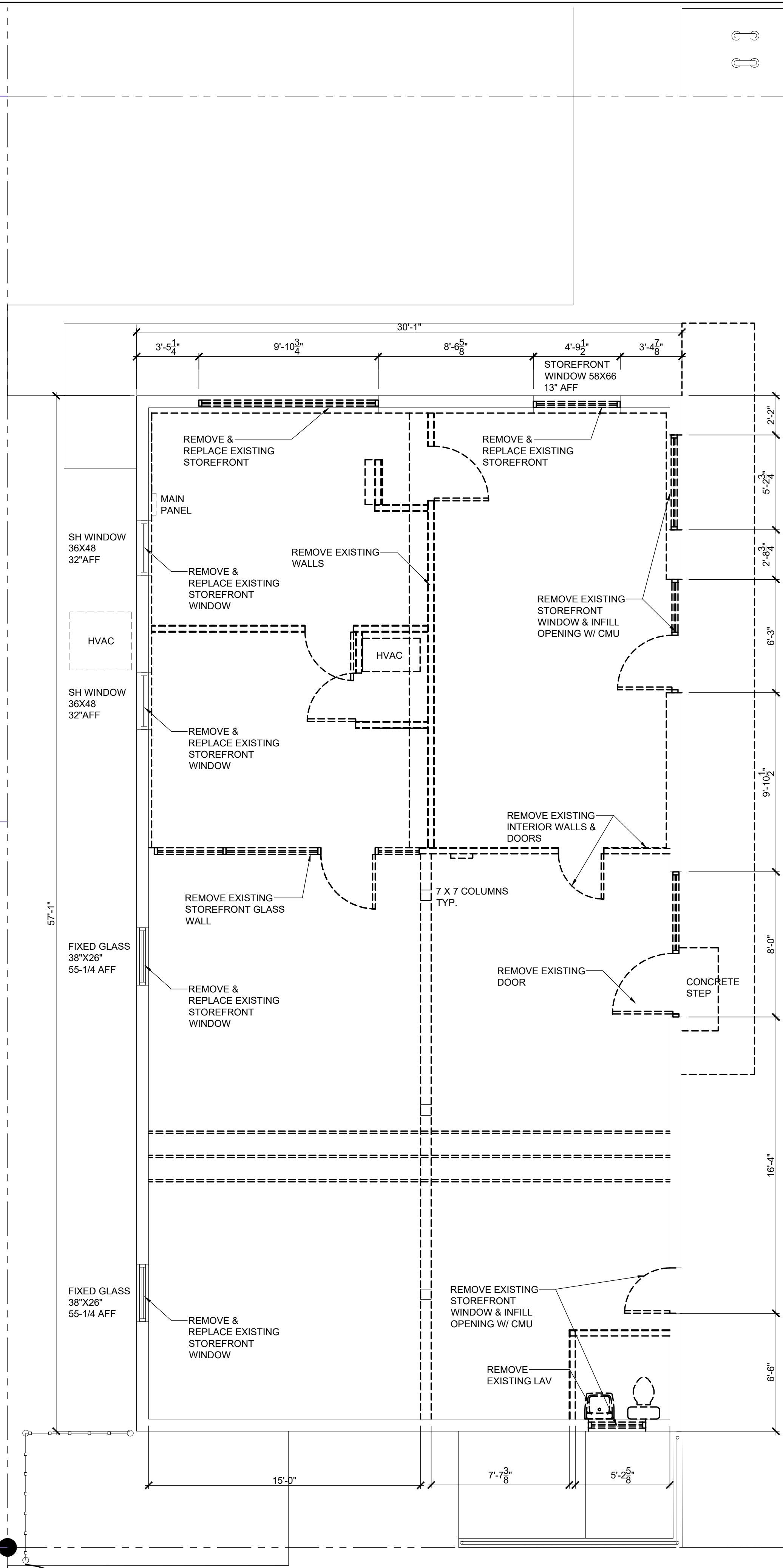
SHEET
A-1

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 EXISTING AHU'S FROM INSIDE THE BUILDING AND CONDENSING UNITS FROM THE ROOF.
4. REMOVE EXISTING DUCTWORK THROUGHOUT THE BUILDING.
5. REMOVE EXISTING ELECTRICAL (WIRING & CONDUIT) THROUGHOUT THE BUILDING BACK TO THE PANELS.
6. REMOVE EXISTING PLUMBING FIXTURES & PIPING THROUGHOUT THE BUILDING. CAP UNUSED WATER & SEWER LINES. PATCH & REPAIR CONCRETE FLOOR SLAB. CONTRACTOR TO LOCATE CW SERVICE TO THE BUILDING & SEWER LINES EXITING THE BUILDING.
7. REMOVE EXISTING FURRING, INSULATION AND GYPSUM WALLBOARD FROM THE PERIMETER OF ALL EXTERIOR WALLS.
8. COORDINATE ALL ROOF REPAIR & PATCHING WORK WITH LANDLORD'S ROOFING CONTRACTOR SO AS TO NOT VOID ANY WARRANTIES.
9. COORDINATE DEMOLITION WORK THAT WILL BE DONE WITH THE LANDLORD PRIOR TO THE COMMENCEMENT OF THE CONTRACTOR'S WORK.
10. REMOVE EXISTING ACOUSTICAL CEILINGS, DIFFUSERS, DUCTWORK, LIGHTS, ETC. TO EXPOSE EXISTING BAR JOISTS AND METAL DECK.
11. GC TO PROVIDE ASBESTOS SURVEY FOR THE BUILDING.
12. REMOVE ALL EXISTING MILLWORK & COUNTERS, DROP-IN SINKS, APPLIANCES, ETC. SEE NOTE 6 REGARDING REMOVAL OF EXISTING PLUMBING.

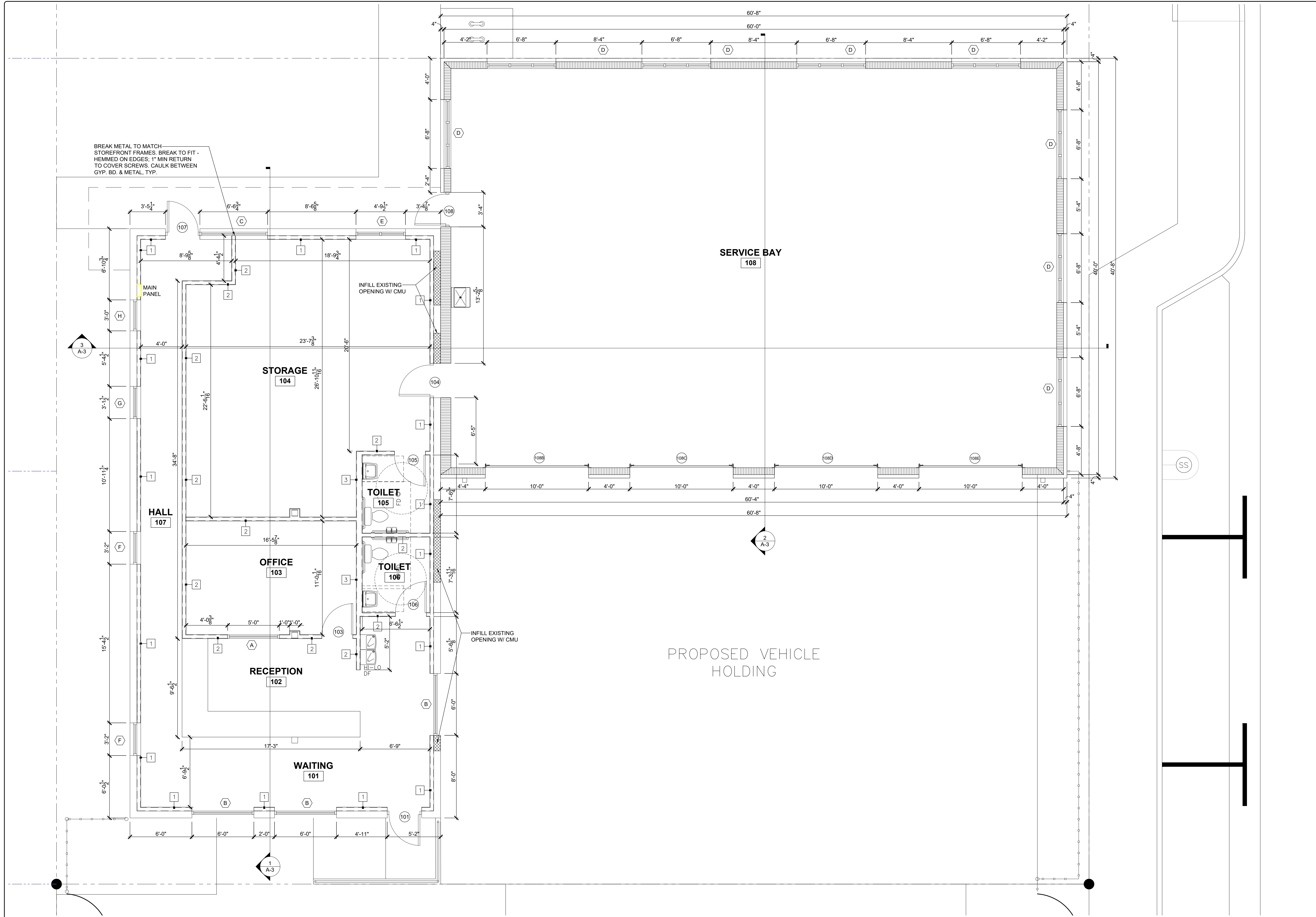
DEMOLITION NOTES:

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

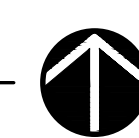


DEMOLITION FLOOR PLAN
SCALE: 1/4"=1'-0"

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



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A-1.2

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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.

FINISHES:

GYPSUM BOARD:

PROVIDE MOISTURE RESISTANT GYPSUM WALLBOARD (ASTM C630/630M) IN WASH DOWN AND WET AREAS; COORD w/OWNER'S REP

PROVIDE TILE BACKER BOARD (DEN-SHIELD OR APPROVED EQUAL) ON WALLS TO RECEIVE CERAMIC TILE (ASTM C1178)

PROVIDE FIRE RATED GYPSUM BOARD TYPE "X" 5/8" THICK ON FIRE RATED PARTITION (ASTM C36) INSTALLED PER UL ASSEMBLY REQUIREMENTS

GYPSUM BOARD INSTALLATION: INSTALL PER GA-216 & GA-600. ERECT EXTERIOR GYPSUM SHEATHING IN ACCORDANCE WITH ASTM C1280.

PROVIDE A GYPSUM BOARD ACCESSORIES AS REQUIRED : ACOUSTIC SEALANT, CORNER BEADS, EDGE TRIM (GA-216), JOINT MATERIALS (ASTM C475 & GA-216) - REINFORCING TAPE, JOINT COMPOUND, ADHESIVE & WATER.

GYPSUM BOARD FINISHES:

LEVEL 1 - ABOVE FINISHED CEILINGS CONCEALED FROM VIEW

LEVEL 2 - WALLS BEHIND CABINETS

LEVEL 3 - WALLS EXPOSED TO VIEW

LEVEL 4 - CEILING EXPOSED TO VIEW

LEVEL 5 - SPECIAL WALLS TO RECEIVE WRITING SURFACES (COORD ANY LOCATIONS OF LEVEL 5 FINISH WALLS w/OWNER)

INSULATION:

PROVIDE ACOUSTIC INSULATION (ASTM C665) AROUND ALL TOILET AND BATHROOMS AND AS NOTED ON THE WALL TYPE SCHEDULE. INSULATION SHALL BE PREFORMED GLASS FIBER, FRICTION FIT UNFACED R-11 MIN.

PROVIDE BATT INSULATION (ASTM C665) IN EXTERIOR WALLS AND SOFFIT AREAS WITH R-VALUES AS NOTED ON PLANS AND SECTIONS. BATT INSULATION SHALL BE PREFORMED GLASS FIBER, FRICTION FIT UNFACED.

INSULATION SHALL HAVE FLAME/SMOKE PROPERTIES 75/450 IN ACCORDANCE WITH ASTM E84

FRAMING MATERIALS:

STUDS AND TRACKS (ASTM C645, GA-216, GA-600) SHALL BE GALVANIZED SHEET STEEL, 0.0188" THICK (25 GA), 0.284 (22 GA), 0.0359 (20 GA); C-SHAPE, WITH KNURLED FACES.

ANCHOR TO SUBSTRATE WITH TIE WIRES, NAILS, SCREWS, AND OTHER METAL SUPPORTS, OF TYPE AND SIZE TO SUIT APPLICATION TO RIGIDLY SECURE MATERIALS IN PLACE.

METAL STUD INSTALLATION: INSTALLED IN ACCORDANCE WITH ASTM C754, GA-216 & GA-600

DEFLECTION: MAXIMUM DEFLECTION OF INTERIOR NON-LOAD BEARING PARTITIONS SHALL BE L/240 AT 5 PSF. PROVIDE LATERAL REINFORCING AS REQUIRED

CEILING FRAMING INSTALLATION: INSTALLED IN ACCORDANCE WITH ASTM C754, GA-216 & GA-600

DEFLECTION: LEVEL CEILING TO A TOLERANCE OF L/600. Laterally BRACE ENTIRE SUSPENSION SYSTEM.

ACOUSTICAL CEILING TILES:

ACOUSTICAL CEILINGS SHALL COMPLY w/ THE FOLLOWING: ASTM C635, ASTM C636, ASTM C665, ASTM E580, ASTM C1284 AND CEILINGS AND INTERIOR SYSTEMS CONSTRUCTION ASSOCIATION.

INSTALLATION: INSTALL LAY-IN CEILING IN ACCORDANCE WITH ASTM C636 AND ASTM E580. INSTALL SYSTEM CAPABLE OF SUPPORTING IMPOSED LOADS TO DEFLECTION OF L/360 MAXIMUM

ACCESSORIES: PROVIDE ALL NECESSARY ACCESSORIES; GALVANIZED SUPPORT HANGERS AND CHANNELS, PERIMETER MOLDINGS (SAME MATERIAL AND FINISH AS THE GRID - L-SHAPED MOLDING FOR MOUNTING AT THE SAME ELEVATION AS FACE OF GRID) TOUCH UP PAINT AS REQUIRED TO MATCH GRID.

VINYL COMPOSITION TILE (VCT):

VCT EQUAL TO ARMSTRONG STANDARD EXCELRON SERIES; 12" x 12" x 1/8"

1.1 PERFORMANCE REQUIREMENTS

- Conform to applicable code for fire performance ratings as follows:
 - Flooring, critical radiant flux (CRF): Minimum 0.45 watt per square centimeter, per ASTM E 648.
 - Flooring, smoke developed: Maximum 450, per ASTM E662.
 - Class 2 finish per ASTM F1066

CERAMIC AND QUARRY TILE:

INSTALL TILE PER THE TCA (TILE COUNCIL OF AMERICA) HANDBOOK FOR TILE INSTALLATION.

NOTE: ALL FINISHES AND COLORS SHALL BE APPROVED BY OWNER PRIOR TO ORDERING

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 EVERCLEAN 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.

ROOM FINISH SCHEDULE

ROOM NAME	FLOOR	BASE	WALLS	CEILING	CEILING HEIGHT	REMARKS
WAITING 101	LVT	VB	PT	GYP. BD.	8'-0"	
RECEPTION 102	LVT	VB	PT	GYP. BD.	8'-0"	
OFFICE 103	LVT	VB	PT	GYP. BD.	8'-0"	
STORAGE 104	SC	VB	PT	GYP. BD.	8'-0"	
TOILET 105	LVT	VB	EP	GYP. BD.	7'-6"	
TOILET 106	LVT	VB	EP	GYP. BD.	7'-6"	
HALL 107	LVT	VB	PT	GYP. BD.	8'-0"	
SERVICE BAY 108	SC	VB	PT	--	--	

ACT	=	ACOUSTICAL CEILING TILE	RS	=	RESILIENT WALL BASE
CT	=	CERAMIC TILE	SC	=	SEALED CONCRETE
EP	=	EPOXY PAINT	S/S	=	STAINLESS STEEL PANELS
FRP	=	FIBERGLASS REINFORCED PANEL	VB	=	VINYL BASE
LVT	=	LUXURY VINYL TILE	VCT	=	VINYL COMPOSITION TILE
PP	=	POLISHED PORCELAIN	CPT	=	CARPET
PT	=	PAINT	GYP	=	GYPSUM

WALLS WITHIN 2'-0" OF SERVICE SINK, URINALS & WATERCLOSETS SHALL HAVE A SMOOTH NONABSORBENT SURFACE TO A HEIGHT OF 4'-0" ABOVE THE FLOOR

COORDINATE ALL FINISHES WITH TENANT

WALL TYPE SCHEDULE

TYPE	DESCRIPTION	INSULATION	NOTES
1	3/8" AIRGAP FROM EXISTING STRUCTURE; 3 5/8", 20 GA. METAL STUDS @ 24" O.C. WITH ONE LAYER OF 1/2" GYPSUM WALLBOARD ON ROOM SIDE; EXTEND TO ROOF DECK	R-13	BRACE WALL TO LIMIT DEFLECTION TO L/240 @ 5 PSF FIBERGLASS BATT INSULATION
2	3-5/8", 20 GA. METAL STUDS @ 24" O.C. WITH ONE LAYER OF 1/2" GYPSUM WALLBOARD ON EACH SIDE; EXTEND TO ROOF DECK	R-11	BRACE WALL TO LIMIT DEFLECTION TO L/240 @ 5 PSF SOUND ATTENUATION BATT (OPTIONAL)
3	6", 20 GA. METAL STUDS @ 24" O.C. WITH ONE LAYER OF 1/2" GYPSUM WALLBOARD ON EACH SIDE; EXTEND TO ROOF DECK	R-19	BRACE WALL TO LIMIT DEFLECTION TO L/240 @ 5 PSF SOUND ATTENUATION BATT (OPTIONAL)
4	3/8" AIRGAP FROM EXISTING STRUCTURE; 6", 20 GA. METAL STUDS @ 24" O.C. WITH ONE LAYER OF 1/2" GYPSUM WALLBOARD ON ROOM SIDE; EXTEND TO ROOF DECK	R-19	BRACE WALL TO LIMIT DEFLECTION TO L/240 @ 5 PSF SOUND ATTENUATION BATT

- 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' (IBC 717.2.2). SEE IBC 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 DENS SHIELD TILE BACKER BOARD OR EQUIVALENT PAPERLESS MOLD/MILDEW SUBSTRATE. 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 FIRE-RERADANT WOOD BLOCKING IN WALL AS REQUIRED TO SUPPORT TOILET ROOM FIXTURES, ACCESSORIES, SHELVES & CABINETS, WALL MOUNTED TELEVISIONS AND FIRE EXTINGUISHERS. COORDINATE LOCATIONS OF CEILING & WALL MOUNTED TELEVISIONS WITH TENANT IN FIELD.
- PROVIDE R-11 SOUND ATTENUATION BATT AROUND THE TOILET ROOM.

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ADDITION AND REMODEL

JOHN'S AUTOMOTIVE

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SHEET TITLE: GENERAL NOTES & SCHEDULE

REVISION

DATE

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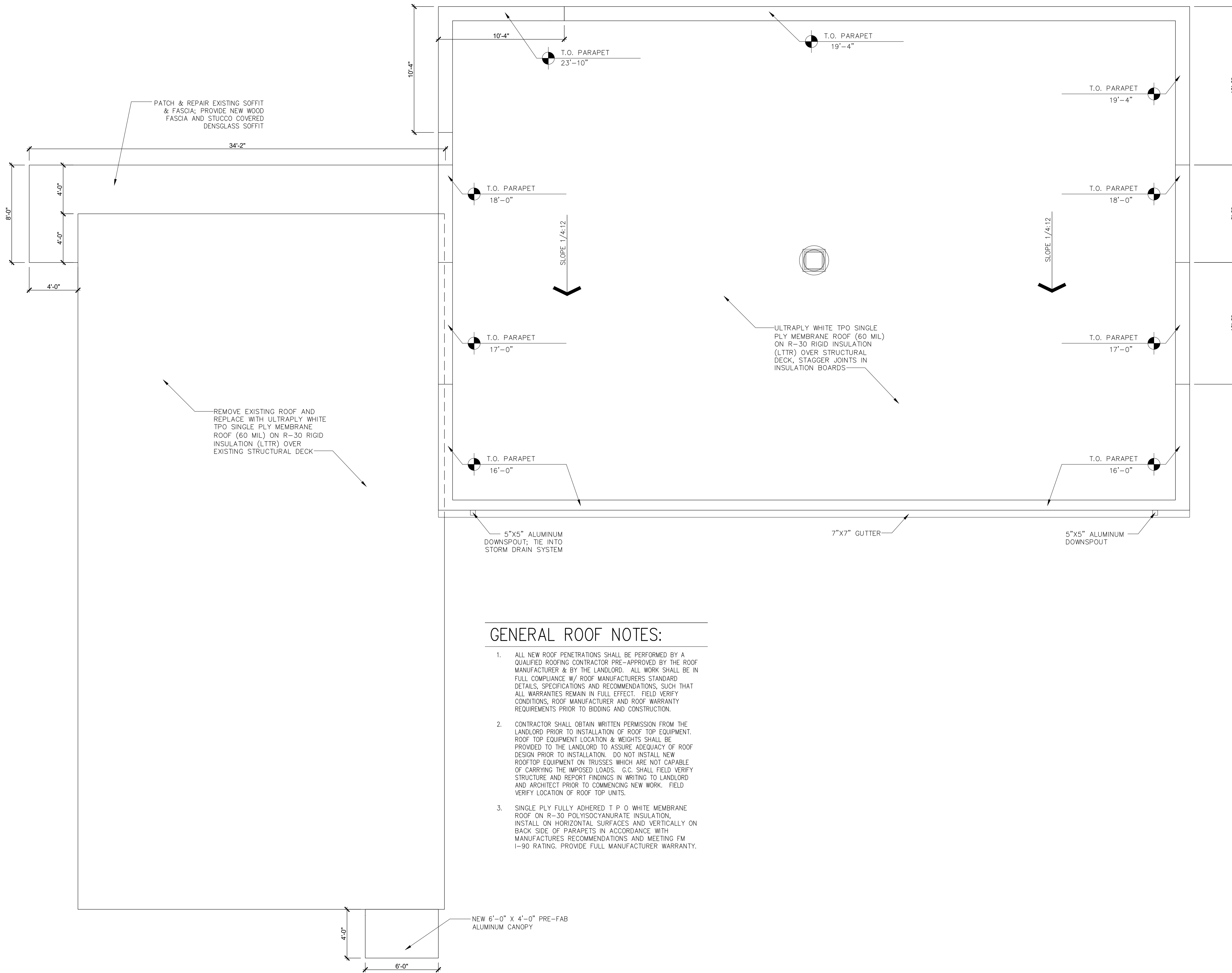
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A-1.3



PATCH & REPAIR EXISTING SOFFIT & FASCIA; PROVIDE NEW WOOD FASCIA AND STUCCO COVERED DENSGLOSS SOFFIT

REMOVE EXISTING ROOF AND REPLACE WITH ULTRAPLY WHITE TPO SINGLE PLY MEMBRANE ROOF (60 MIL) ON R-30 RIGID INSULATION (LTTR) OVER EXISTING STRUCTURAL DECK

ULTRAPLY WHITE TPO SINGLE PLY MEMBRANE ROOF (60 MIL) ON R-30 RIGID INSULATION (LTTR) OVER STRUCTURAL DECK, STAGGER JOINTS IN INSULATION BOARDS

GENERAL ROOF NOTES:

1. ALL NEW ROOF PENETRATIONS SHALL BE PERFORMED BY A QUALIFIED ROOFING CONTRACTOR PRE-APPROVED BY THE ROOF MANUFACTURER & BY THE LANDLORD. ALL WORK SHALL BE IN FULL COMPLIANCE W/ ROOF MANUFACTURERS STANDARD DETAILS, SPECIFICATIONS AND RECOMMENDATIONS, SUCH THAT ALL WARRANTIES REMAIN IN FULL EFFECT. FIELD VERIFY CONDITIONS, ROOF MANUFACTURER AND ROOF WARRANTY REQUIREMENTS PRIOR TO BIDDING AND CONSTRUCTION.
2. CONTRACTOR SHALL OBTAIN WRITTEN PERMISSION FROM THE LANDLORD PRIOR TO INSTALLATION OF ROOF TOP EQUIPMENT. ROOF TOP EQUIPMENT LOCATION & WEIGHTS SHALL BE PROVIDED TO THE LANDLORD TO ASSURE ADEQUACY OF ROOF DESIGN PRIOR TO INSTALLATION. DO NOT INSTALL NEW ROOFTOP EQUIPMENT ON TRUSSES WHICH ARE NOT CAPABLE OF CARRYING THE IMPOSED LOADS. G.C. SHALL FIELD VERIFY STRUCTURE AND REPORT FINDINGS IN WRITING TO LANDLORD AND ARCHITECT PRIOR TO COMMENCING NEW WORK. FIELD VERIFY LOCATION OF ROOF TOP UNITS.
3. SINGLE PLY FULLY ADHERED T P O WHITE MEMBRANE ROOF ON R-30 POLYISOCYANURATE INSULATION, INSTALL ON HORIZONTAL SURFACES AND VERTICALLY ON BACK SIDE OF PARAPETS IN ACCORDANCE WITH MANUFACTURES RECOMMENDATIONS AND MEETING FM I-90 RATING, PROVIDE FULL MANUFACTURER WARRANTY.

NEW 6'-0" X 4'-0" PRE-FAB ALUMINUM CANOPY

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



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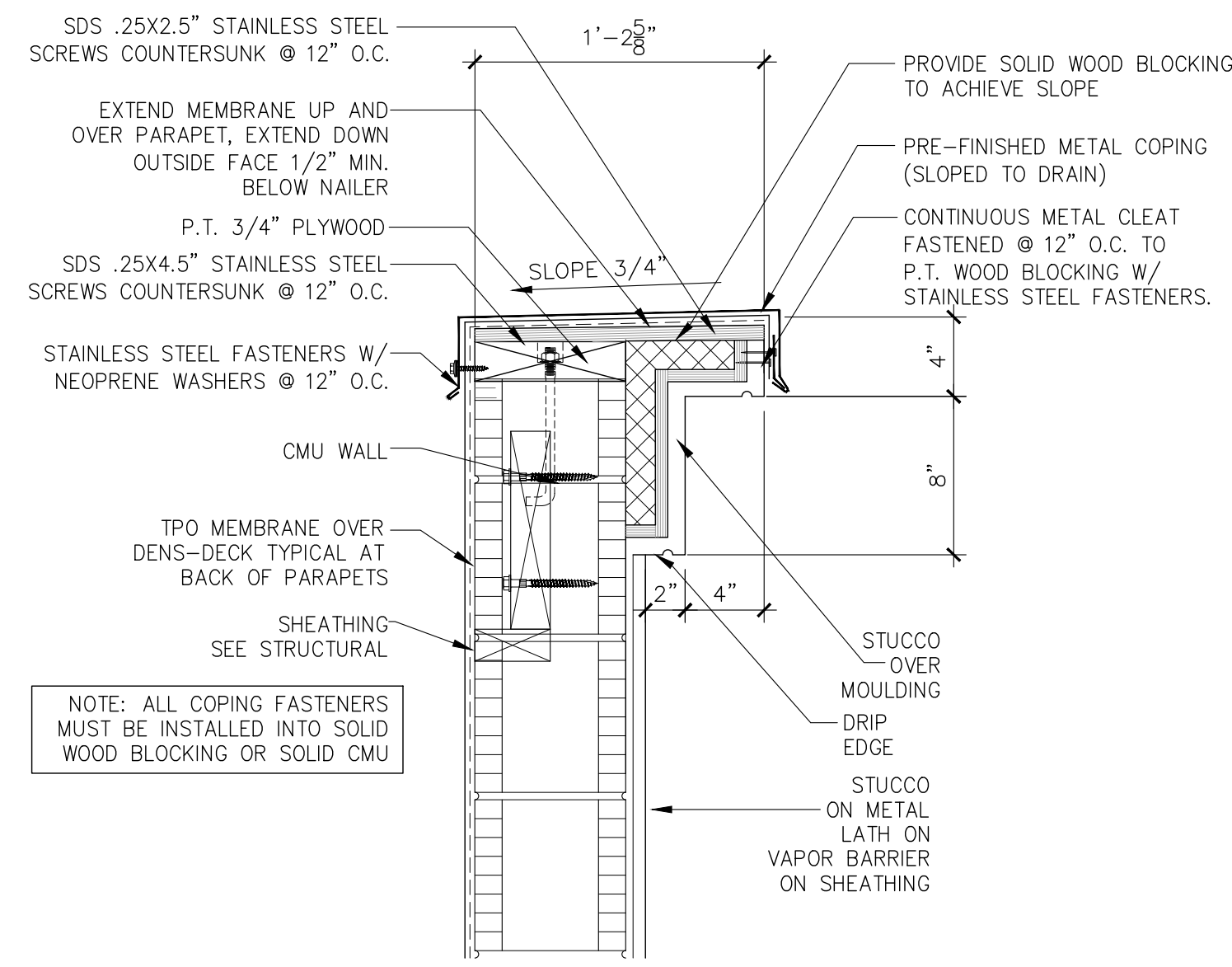
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SHEET TITLE: ROOF PLAN	
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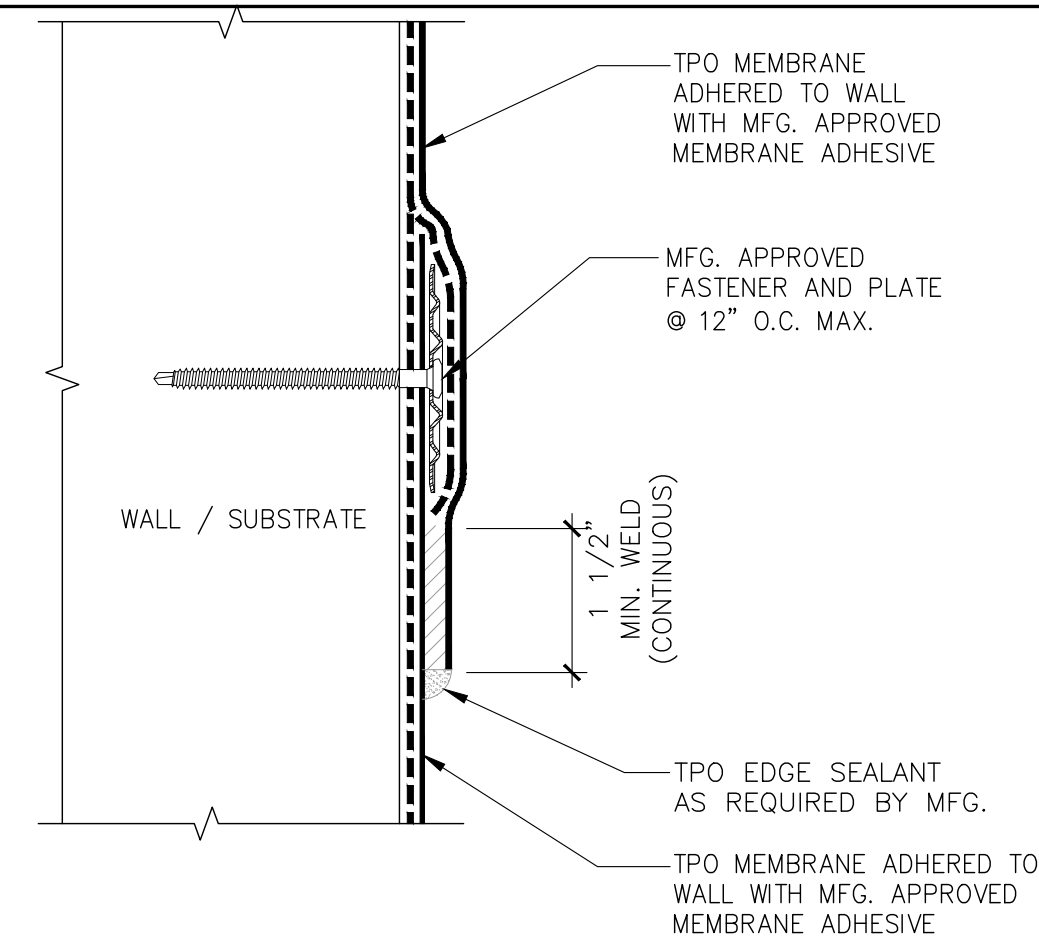
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A-1.4

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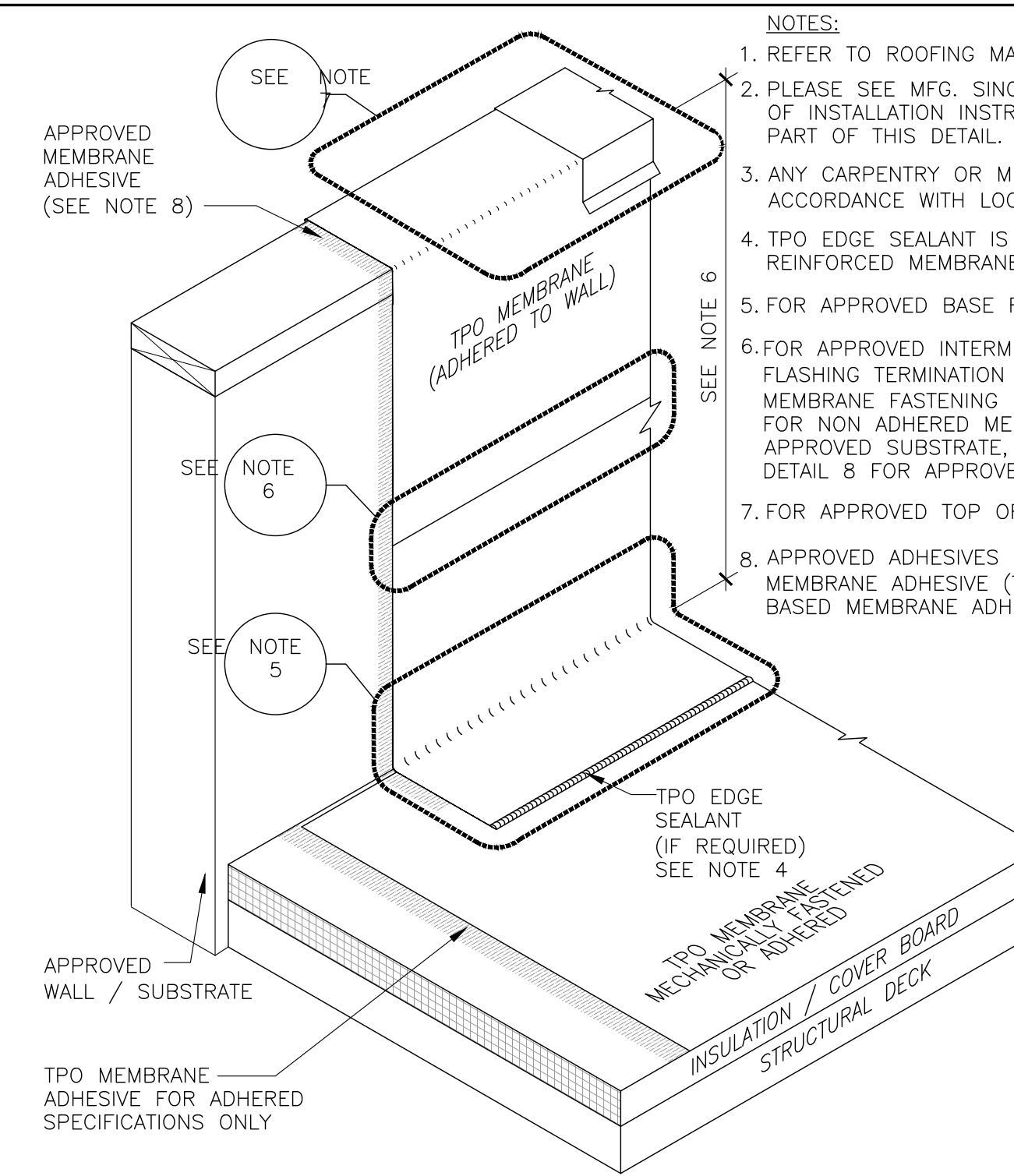
PARAPET DETAIL 12

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



LAP FLASHING DETAIL 8

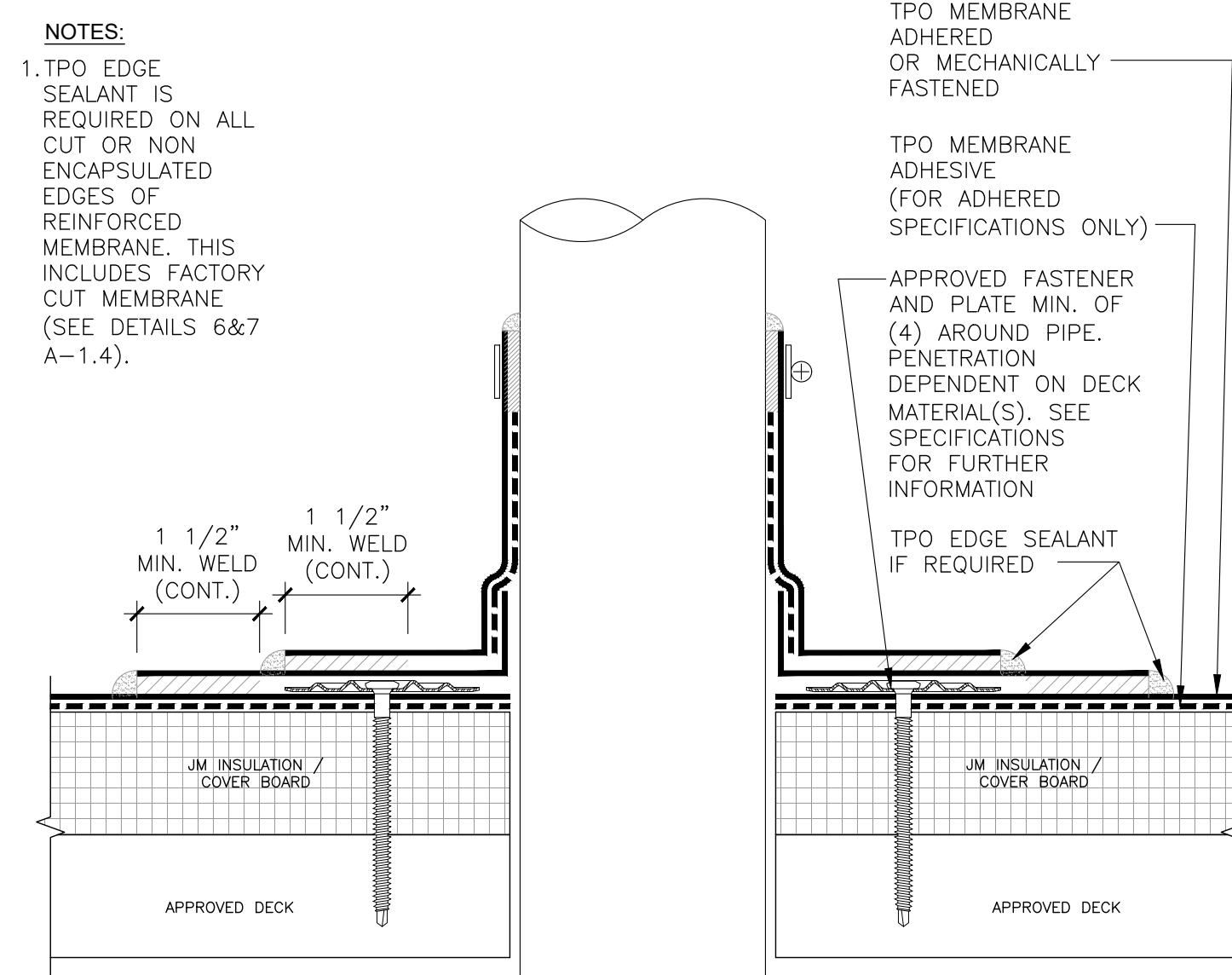
NOT TO SCALE



PARAPET MASTER DETAIL 10

NOT TO SCALE

- NOTES:**
1. REFER TO ROOFING MANUFACTURER'S WEBSITE FOR MOST UP-TO-DATE INFORMATION.
 2. PLEASE SEE MFG. SINGLE PLY FLASHING SPECIFICATIONS FOR A FULL DESCRIPTION OF INSTALLATION INSTRUCTIONS AND REQUIREMENTS WHICH ARE CONSIDERED A PART OF THIS DETAIL.
 3. ANY CARPENTRY OR METAL WORK SHOULD BE DESIGNED AND CONSTRUCTED IN ACCORDANCE WITH LOCAL CODE REQUIREMENTS AND/OR PROJECT SPECIFICATIONS.
 4. TPO EDGE SEALANT IS REQUIRED ON ALL CUT OR NON-ENCAPSULATED EDGES OF REINFORCED MEMBRANE. THIS INCLUDES FACTORY CUT MEMBRANE.
 5. FOR APPROVED BASE FLASHING FASTENING METHODS SEE DETAIL 3
 6. FOR APPROVED INTERMEDIATE FLASHING FASTENING METHODS SEE DETAIL 8/. MINIMUM FLASHING TERMINATION HEIGHT IS 8" ABOVE ROOF SURFACE. INTERMEDIATE ADHERED MEMBRANE FASTENING REQUIRED AT 5'-0" INTERVALS MAXIMUM, AND 18" HIGH MAXIMUM FOR NON ADHERED MEMBRANE ON CMU, BRICK, SMOOTH CONCRETE WALLS, OR ANY APPROVED SUBSTRATE, I.E. PLYWOOD, SECURROCK, GYPSUM-FIBER AND DENSCRECK. SEE DETAIL 8 FOR APPROVED FASTENING METHODS.
 7. FOR APPROVED TOP OF WALL FLASHING METHODS SEE DETAIL 11
 8. APPROVED ADHESIVES FOR USE ON VERTICAL FLASHING APPLICATIONS INCLUDES LVOC MEMBRANE ADHESIVE (TPO), MEMBRANE BONDING ADHESIVE (TPO) AND JM TPO WATER BASED MEMBRANE ADHESIVE.

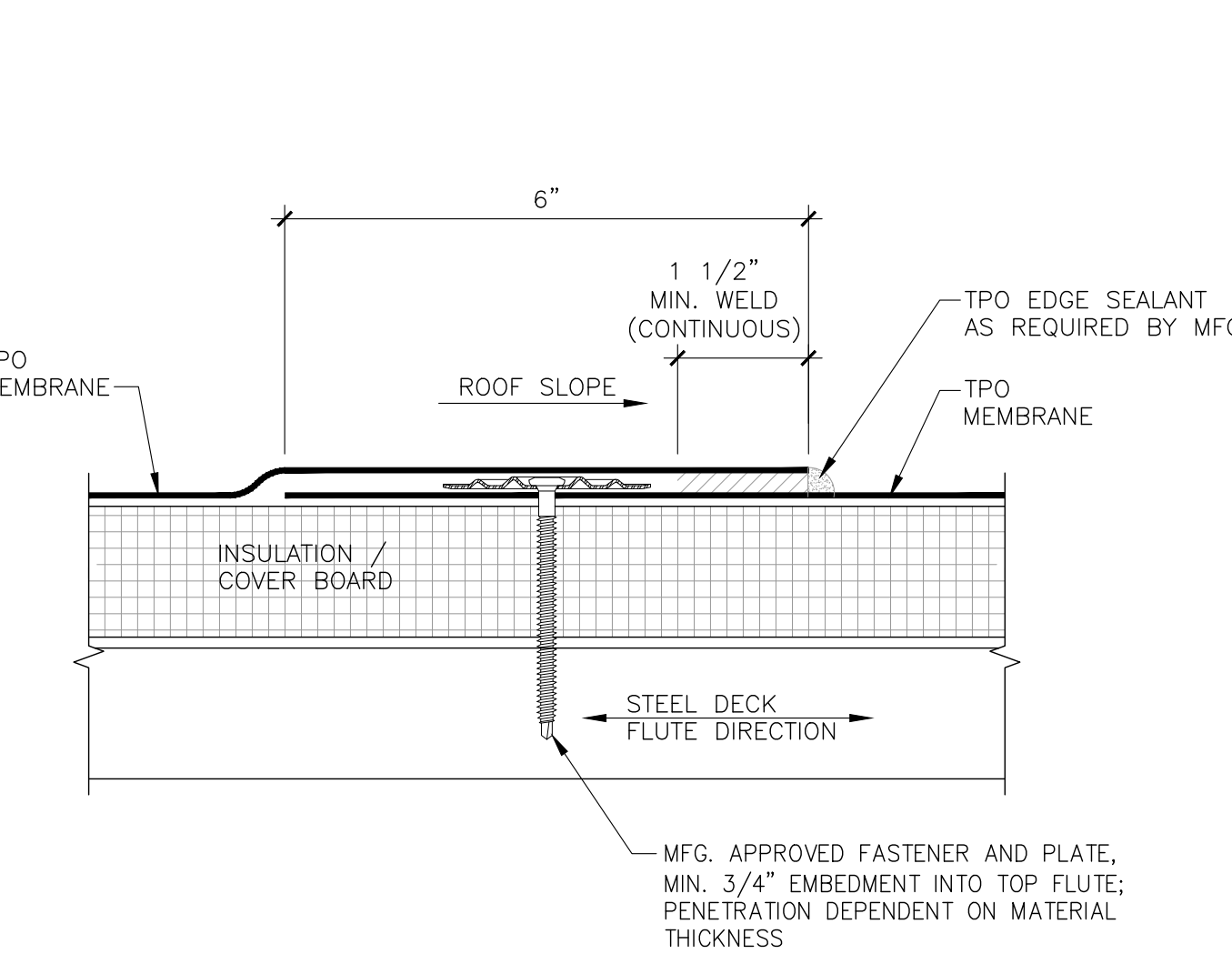
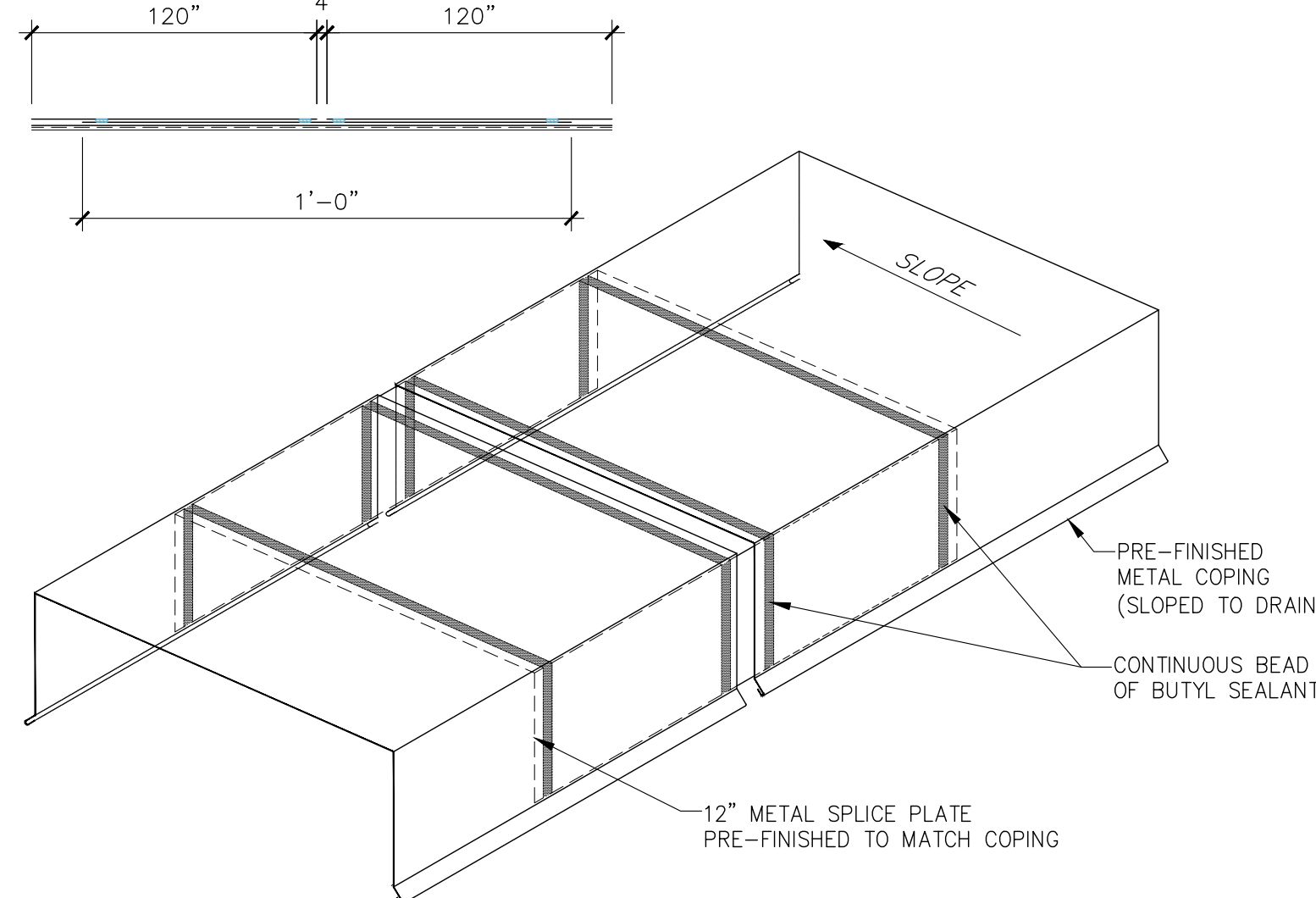


PIPE PENETRATION DETAIL 5

NOT TO SCALE

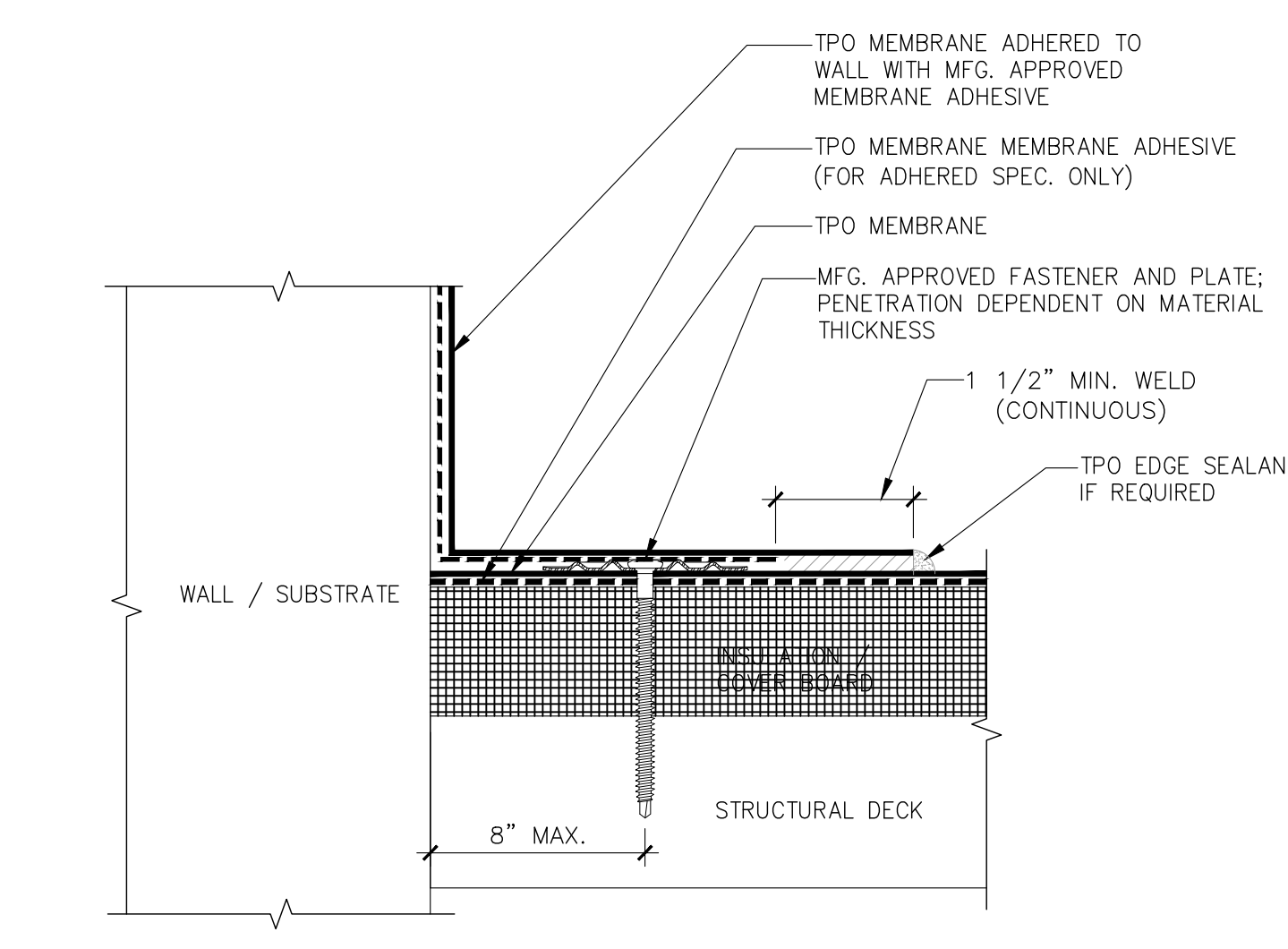
CUT EDGE SEALANT DETAIL 6

NOT TO SCALE



IN LAP FASTENING DETAIL 7

NOT TO SCALE



BASE FLASHING DETAIL 3

NOT TO SCALE

HOT VENT PIPE DETAIL 4

NOT TO SCALE

COPING SPLICE DETAIL 1

NOT TO SCALE

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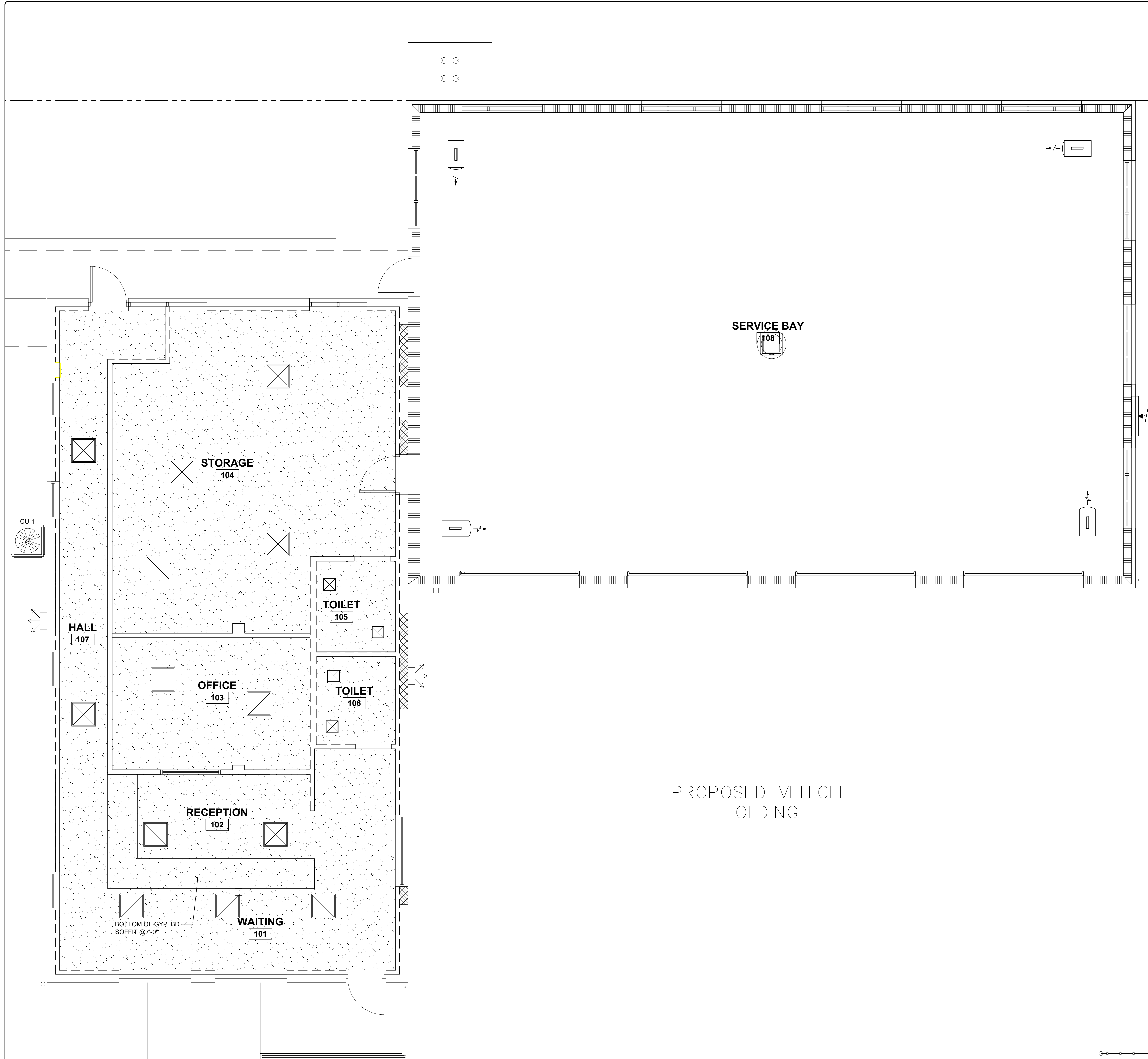
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REFLECTED CEILING PLAN

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



CEILING PLAN LEGEND

	ACOUSTICAL CEILING TILE		RECESSED LED CAN LIGHT FIXTURE
	GYPSUM WALLBOARD SOFFIT CEILING		1 X 4 LIGHT FIXTURE
	2 X 2 SUPPLY DIFFUSER		RECESSED CEILING FIXTURE
	2 X 2 RETURN AIR REGISTER		EMERGENCY LIGHT/EXIT SIGN
	EXHAUST AIR REGISTER		EXIT SIGN
	2 X 4 LIGHT FIXTURE		EMERGENCY LIGHT
	2 X 2 LIGHT FIXTURE		LED TRACK LIGHT
	DUCT MOUNTED SUPPLY GRILL		JUNCTION BOX
			DUCT MOUNTED RETURN GRILL

NOTES:
 1. FOOD PREPARATION RATED ACOUSTICAL CEILING: 2 x 2 SQUARE EDGED VINYL-FACED ACOUSTICAL CEILING EQUAL TO ARMSTRONG FINE FISSURED CERAMAGUARD (PLAIN PATTERN, NON-PERFORATED) (24" x 24" x 5/8"). NRC = .10
 2. FIELD VERIFY EXISTING CONDITIONS AND NOTIFY ARCHITECT & ENGINEER OR ANY DISCREPANCIES.

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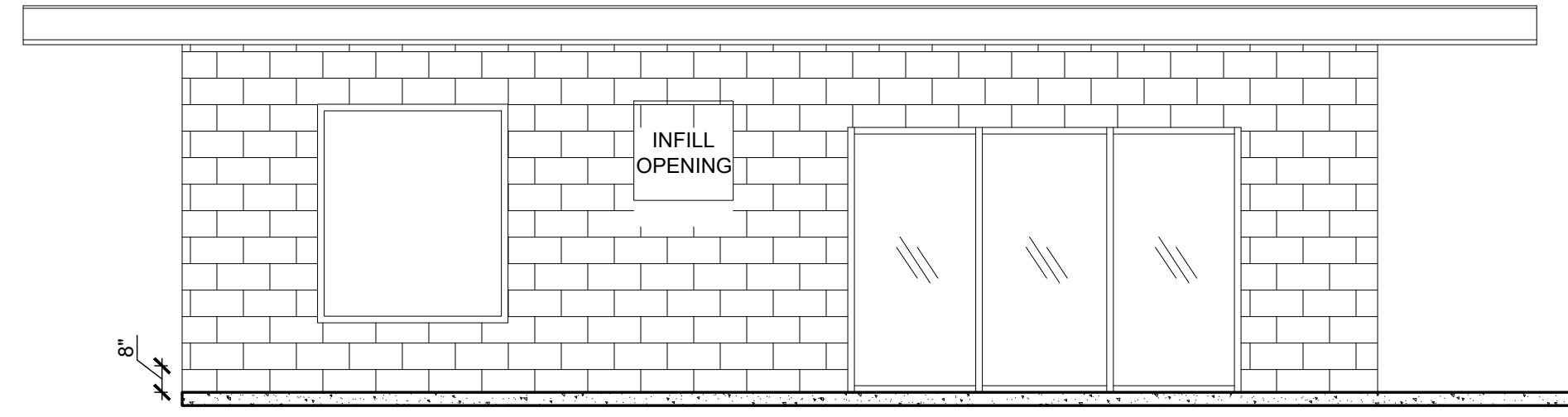
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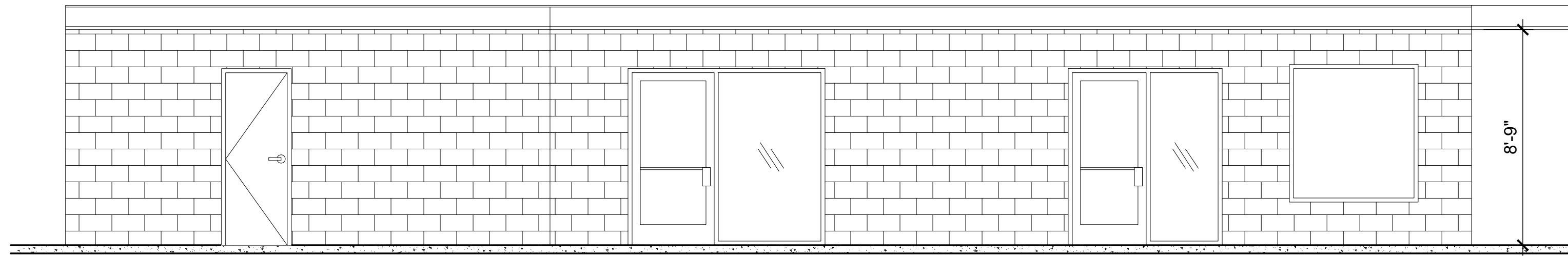
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A-1.6

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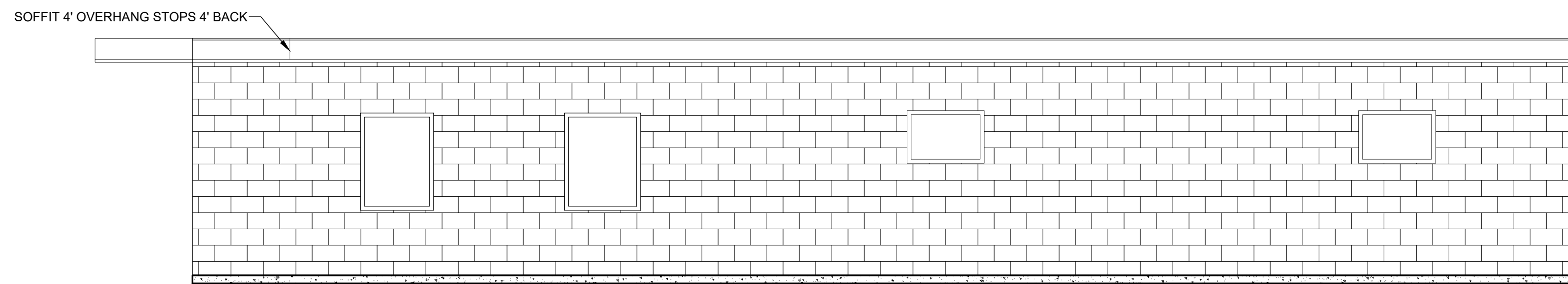
NORTH ELEVATION

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



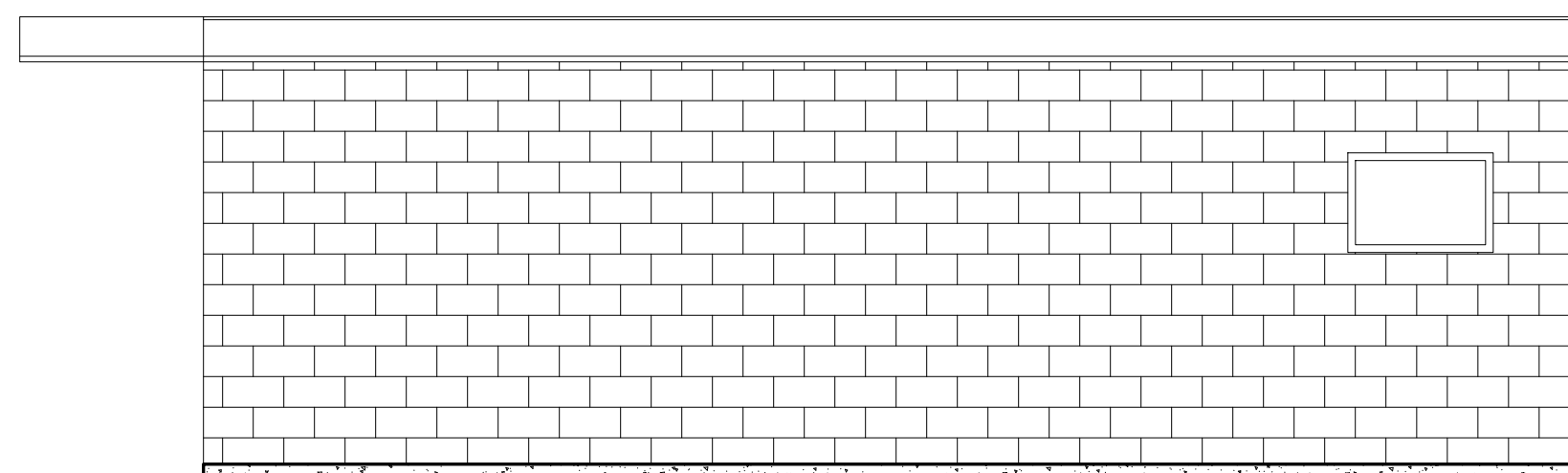
EAST ELEVATION

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



WEST ELEVATION

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



SOUTH ELEVATION

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

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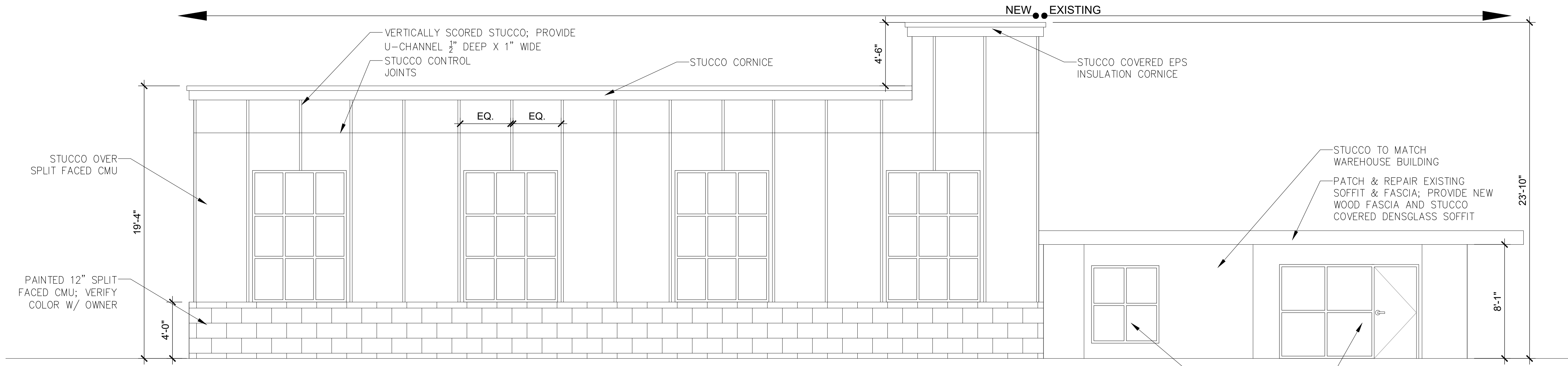
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SHEET TITLE: EXISTING BUILDING ELEVATIONS	
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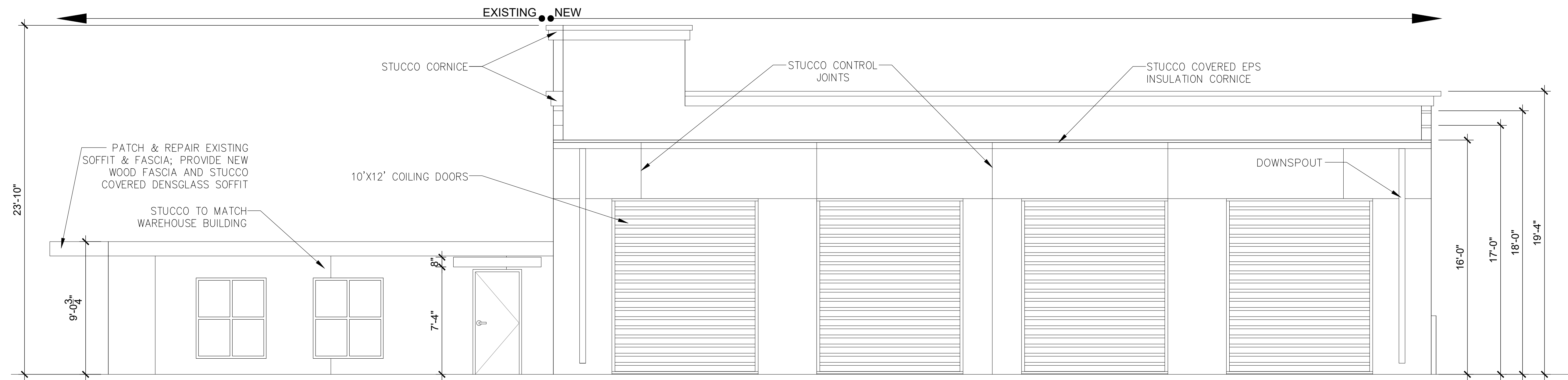
SHEET
A-2

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NORTH ELEVATION

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



SOUTH ELEVATION

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

SHEET TITLE: BUILDING ELEVATIONS

NO.	DATE	REVISION

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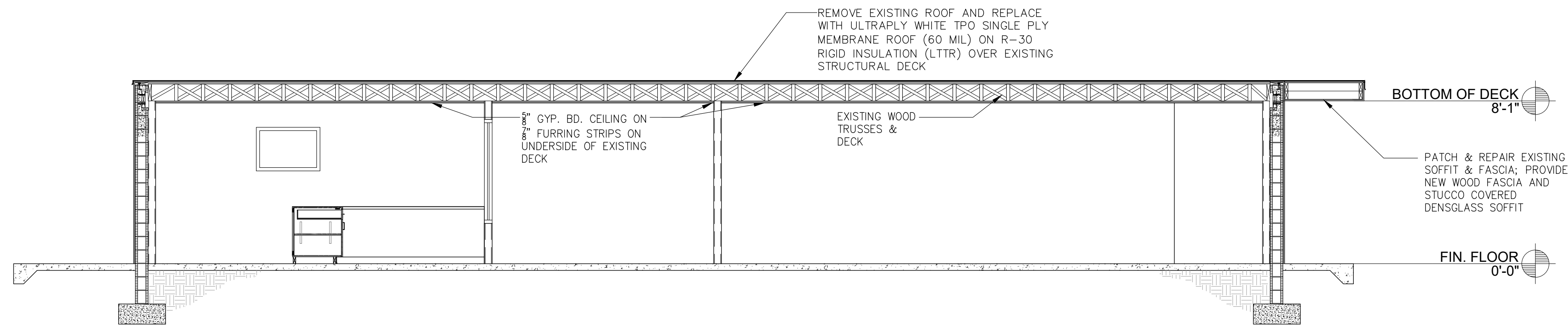
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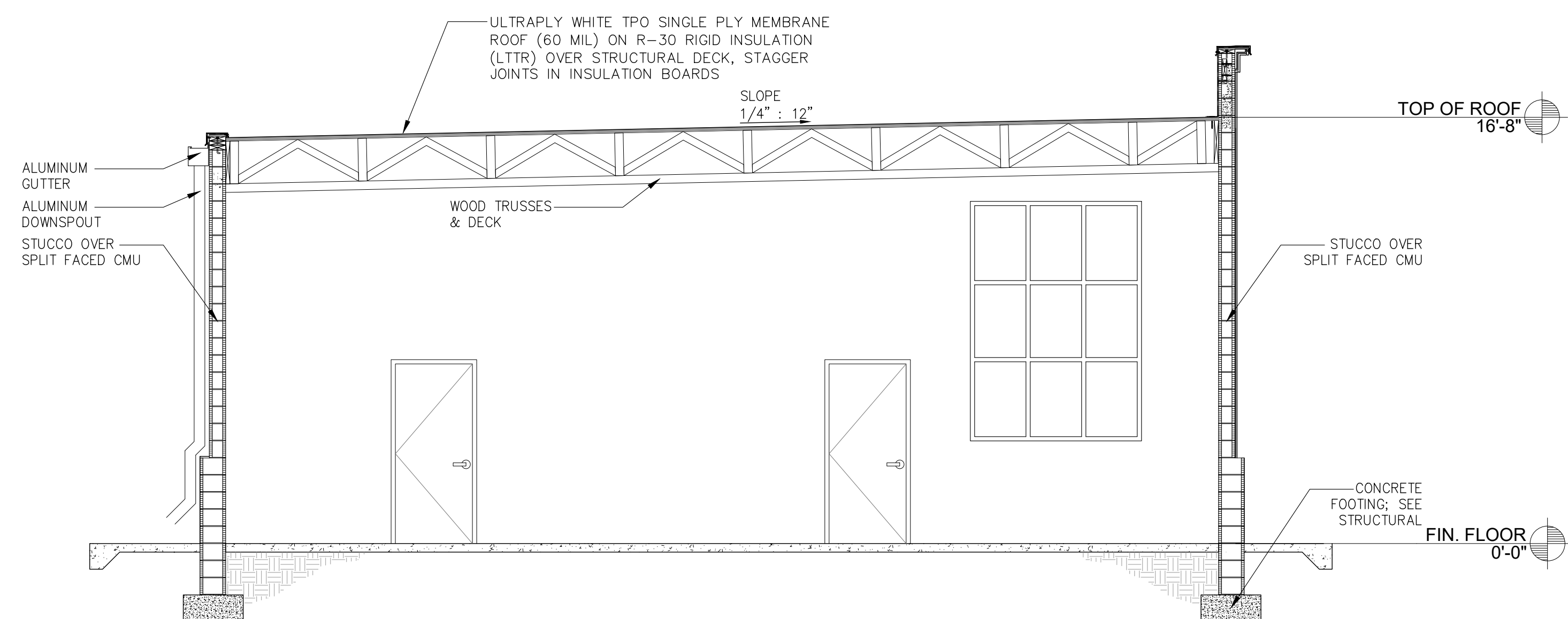
A-2.1

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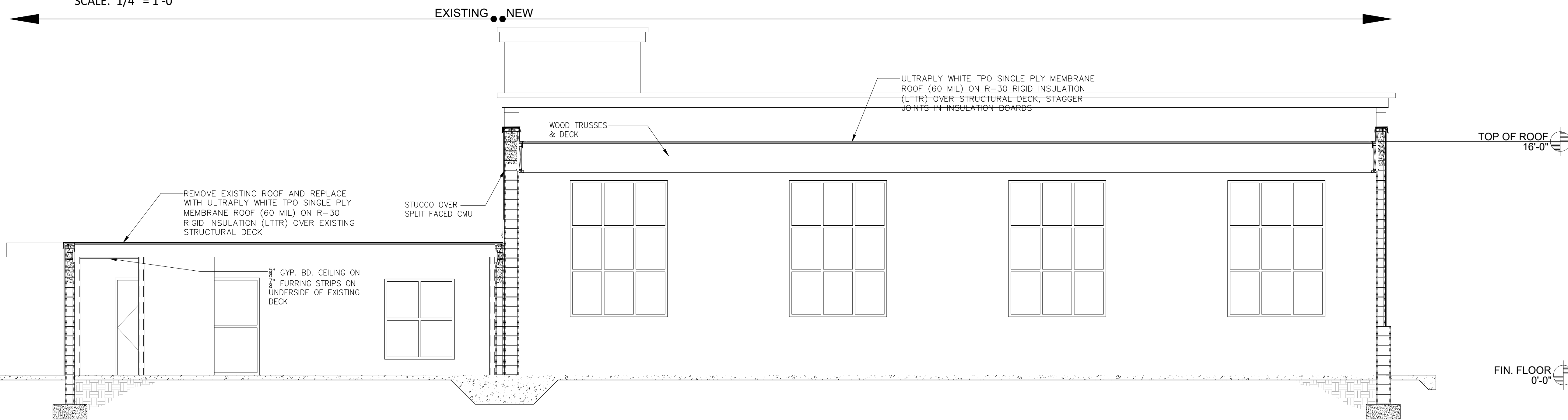
BUILDING SECTION 1

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



BUILDING SECTION 2

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



BUILDING SECTION 3

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

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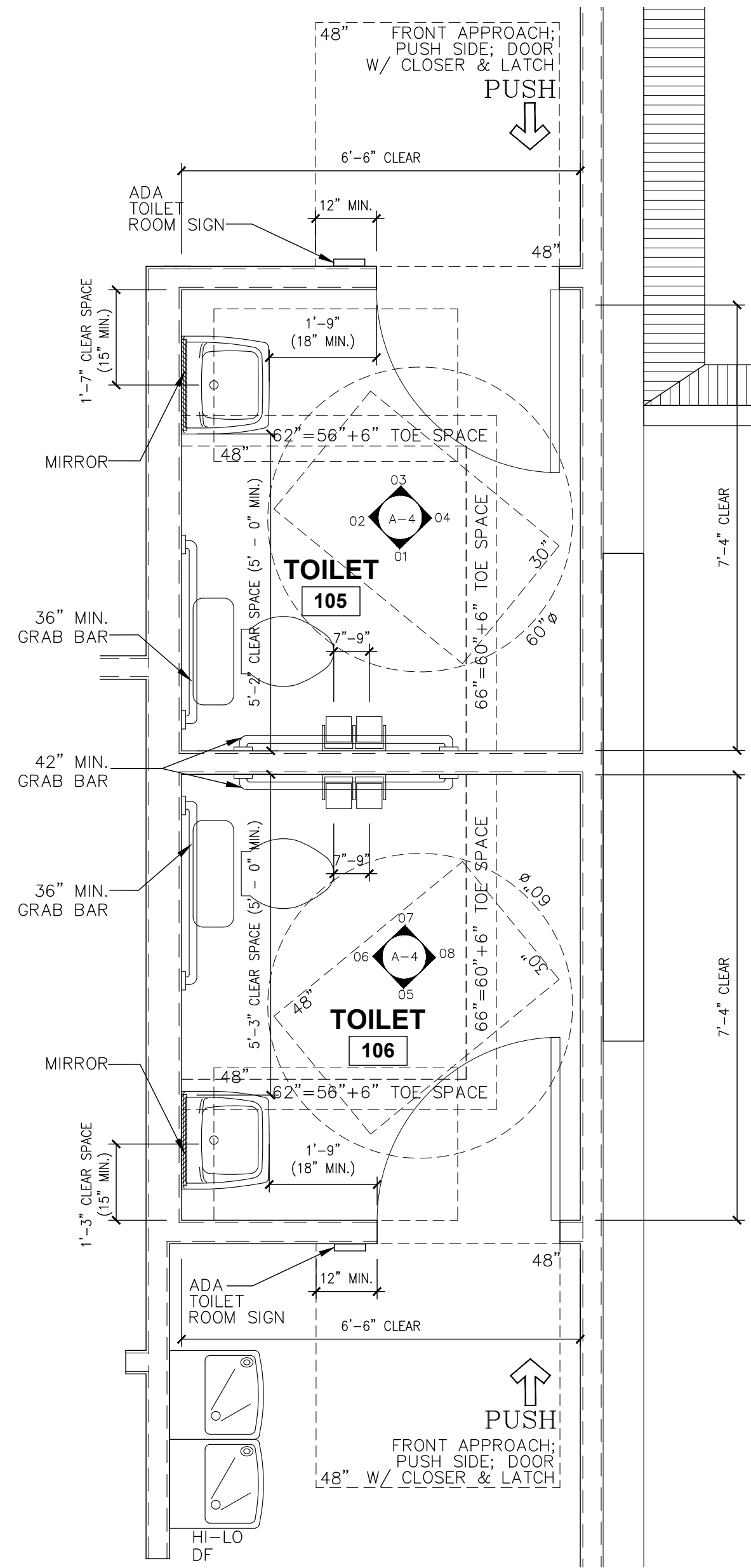
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SHEET TITLE: BUILDING SECTIONS	
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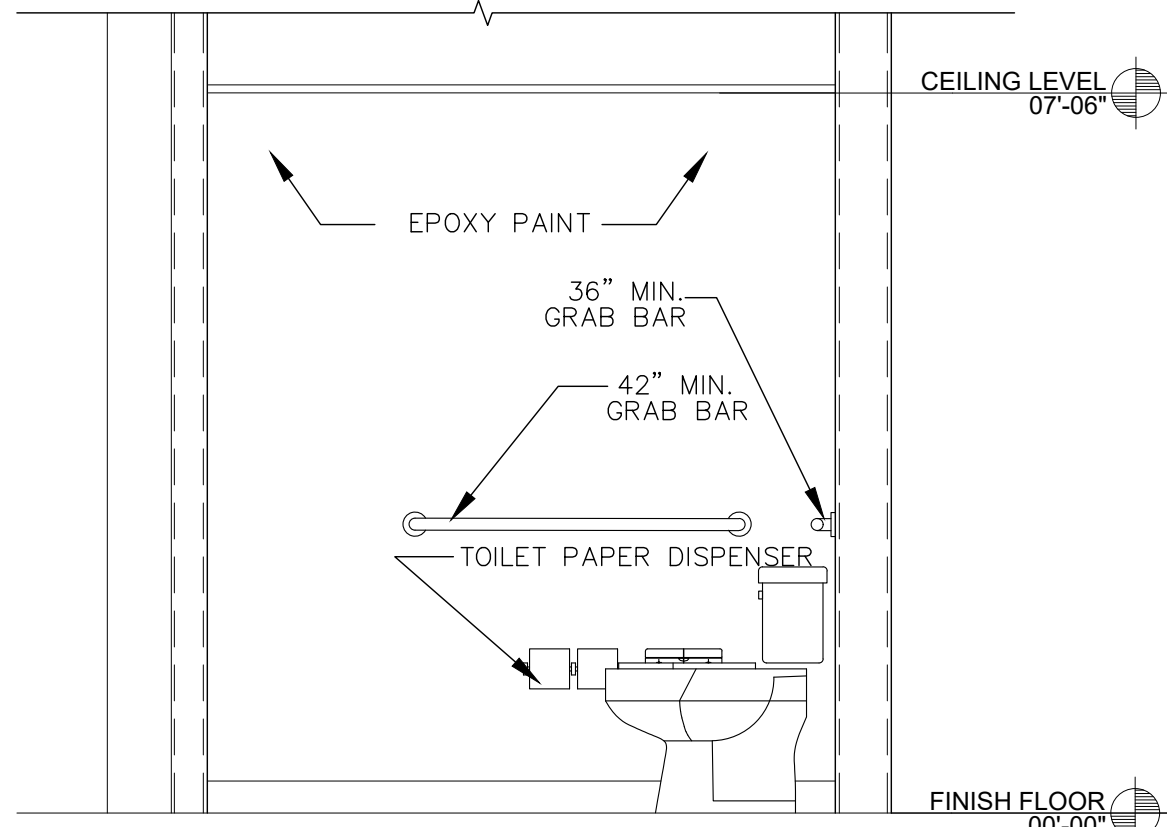
SHEET
A-3

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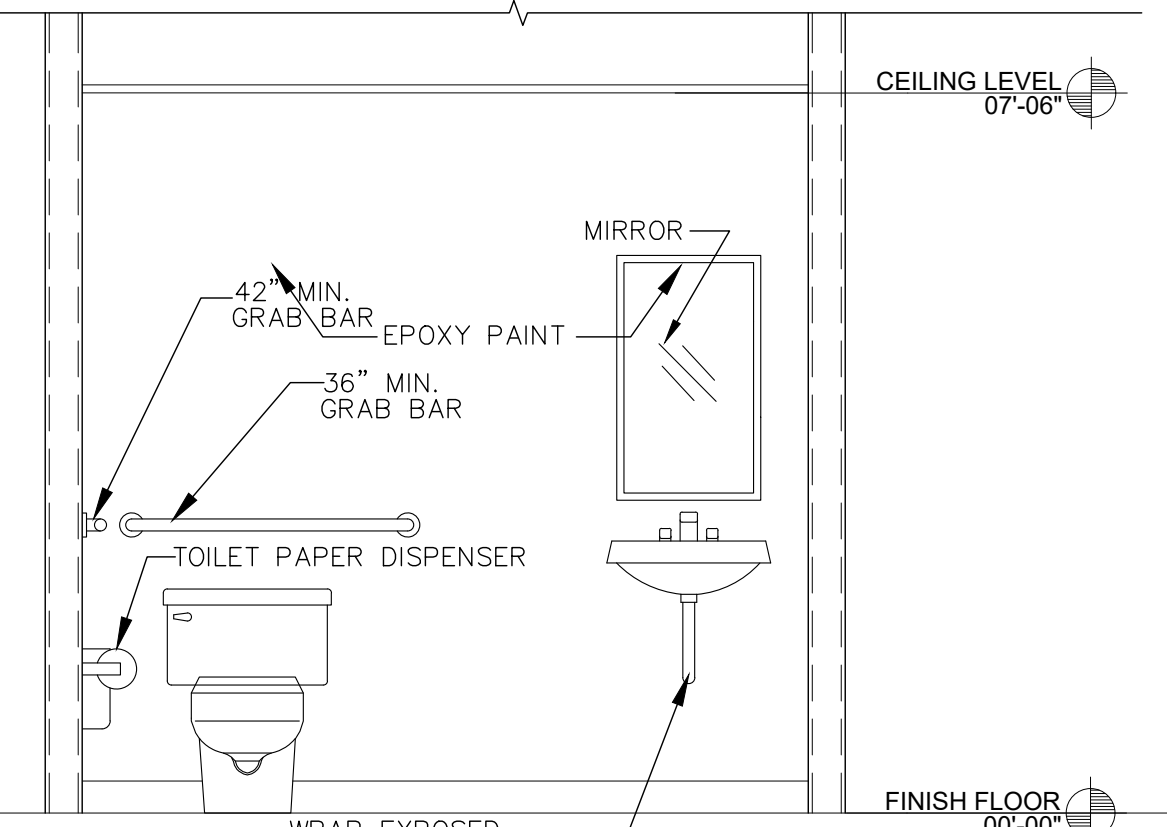
ELEVATION 01

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



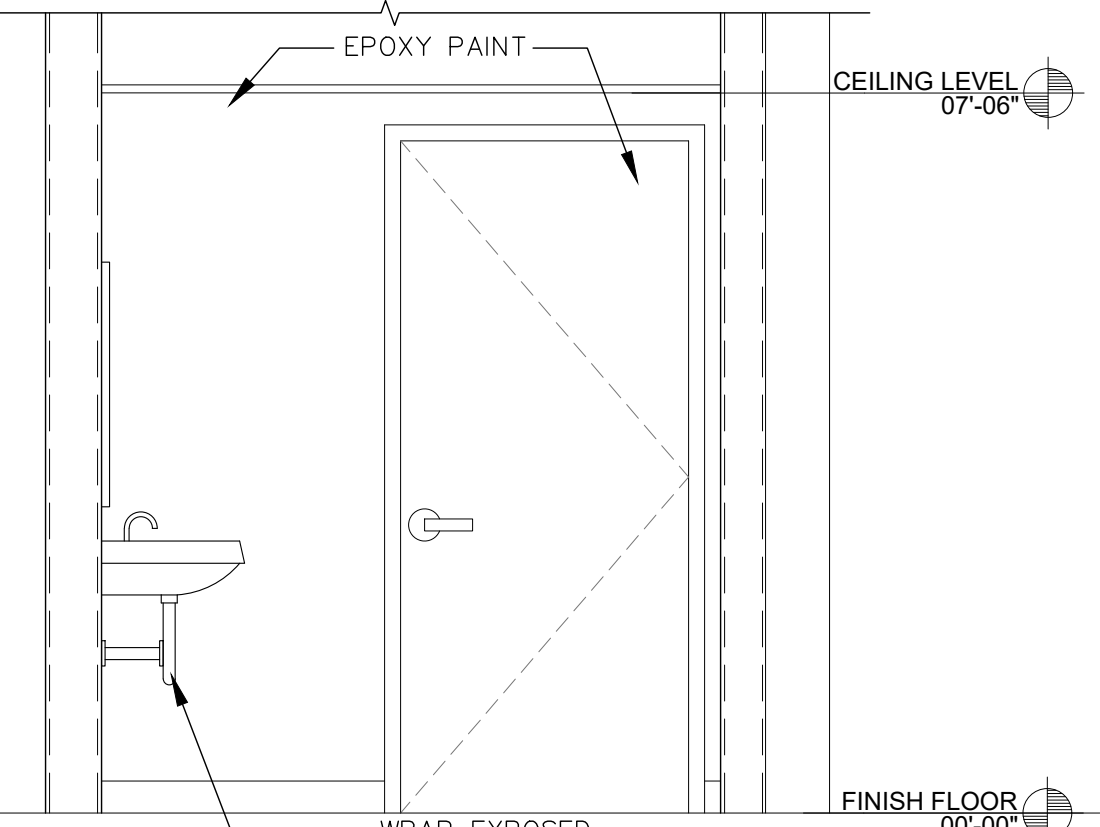
ELEVATION 02

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



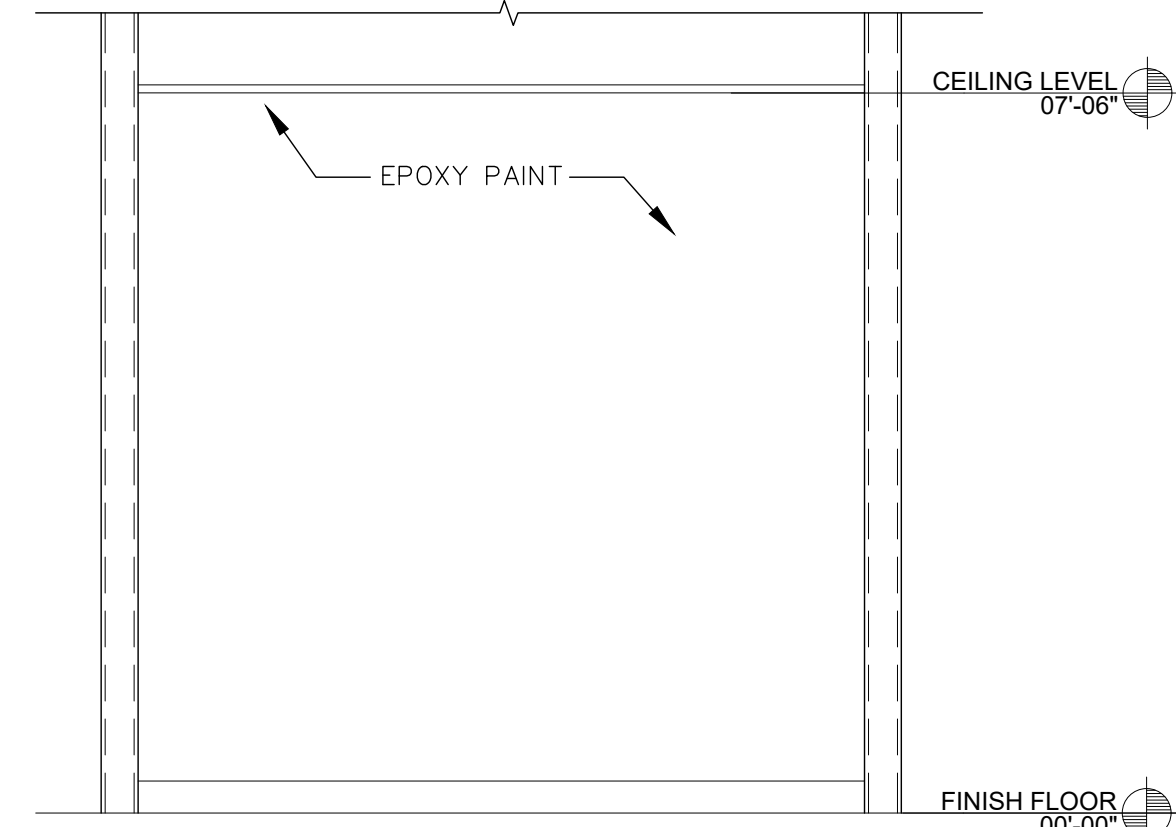
ELEVATION 03

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



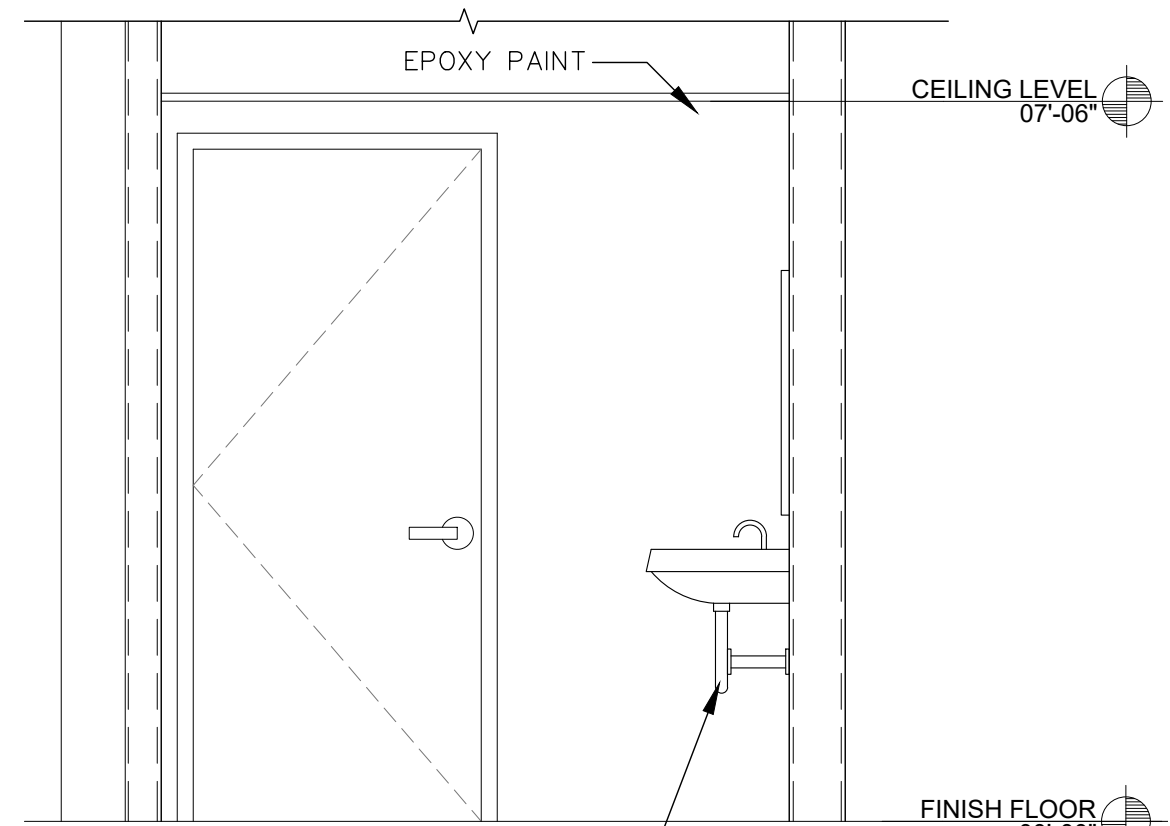
ELEVATION 04

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



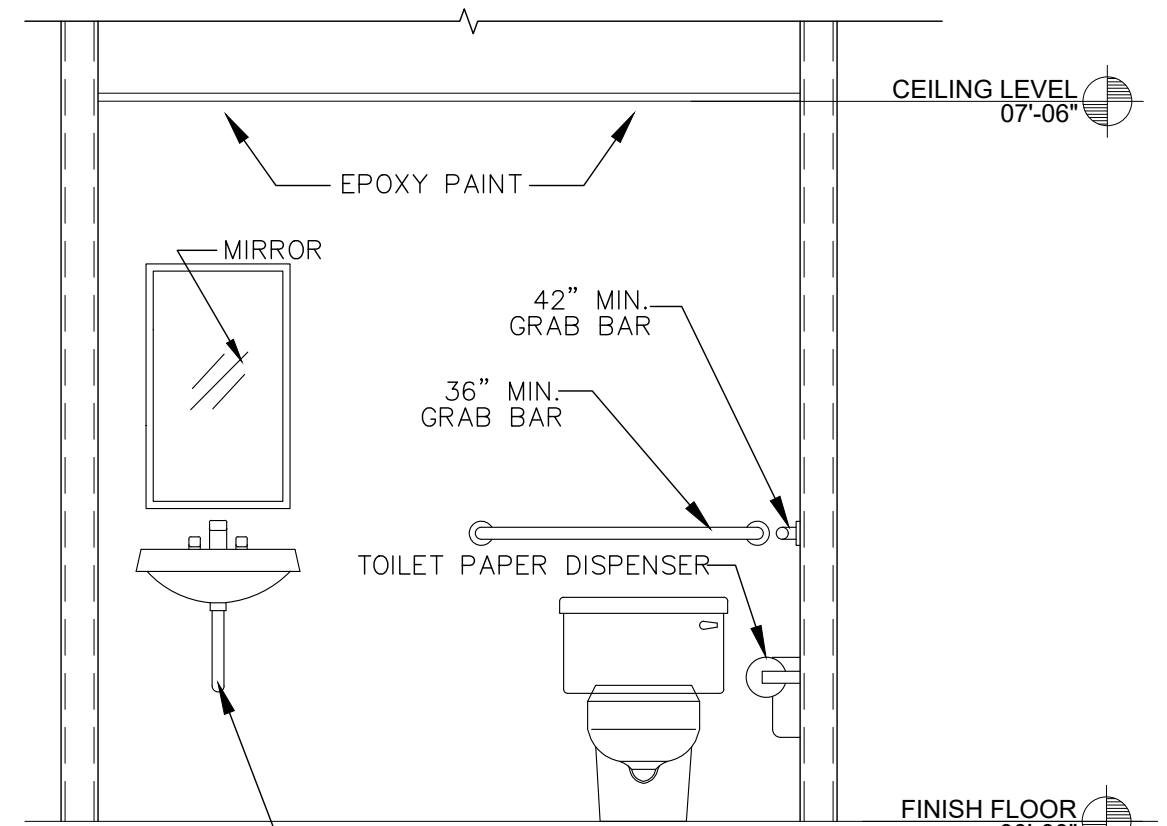
ELEVATION 05

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



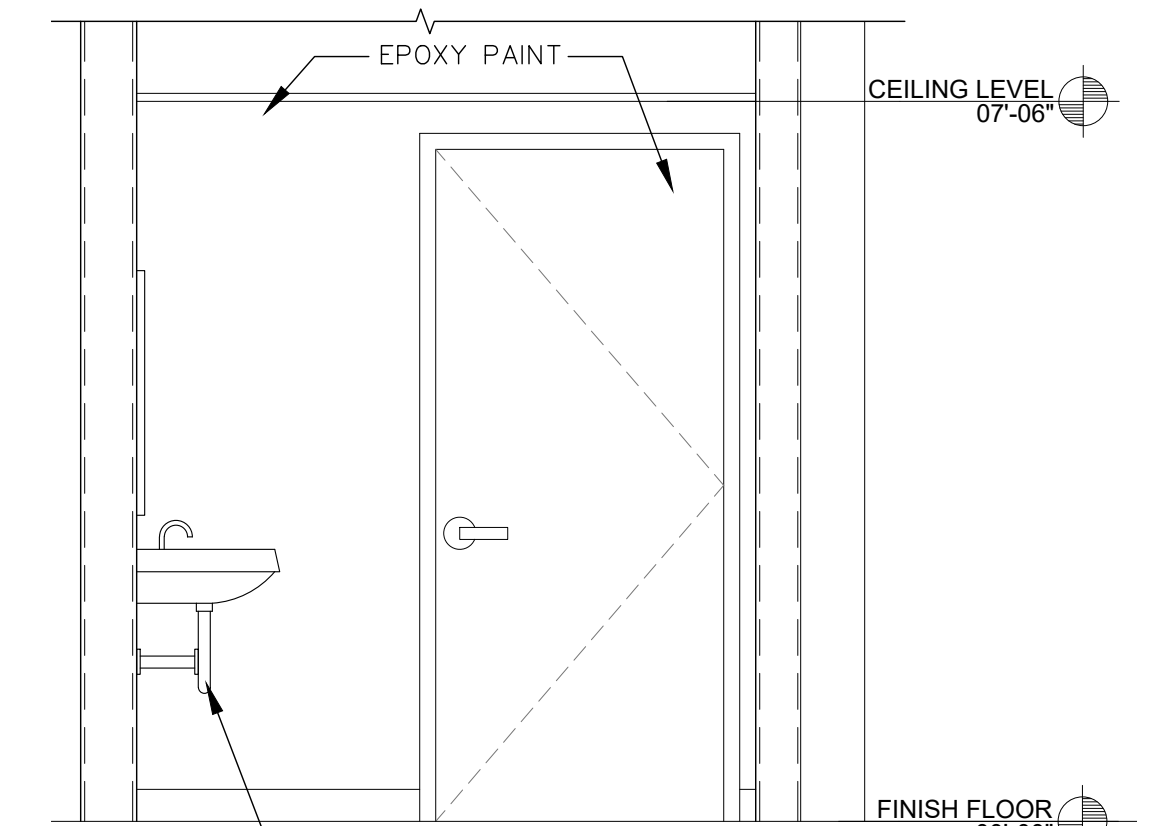
ELEVATION 06

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



ELEVATION 07

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



ENLARGED TOILET ROOM PLAN

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

TOILET ACCESSORY LEGEND

- SURFACE MTD. PAPER TOWEL DISPENSER
- DOUBLE TOILET PAPER HOLDER
- SURFACE MTD. SOAP DISPENSER
- SANITARY NAPKIN DISPOSAL
- MOP HOLDER
- 18 x 42 MIRROR
- HANDICAPPED GRAB BAR (PROVIDE PEENED FINISH ON SHOWER GRAB BAR)
- ELECTRIC HAND DRYER

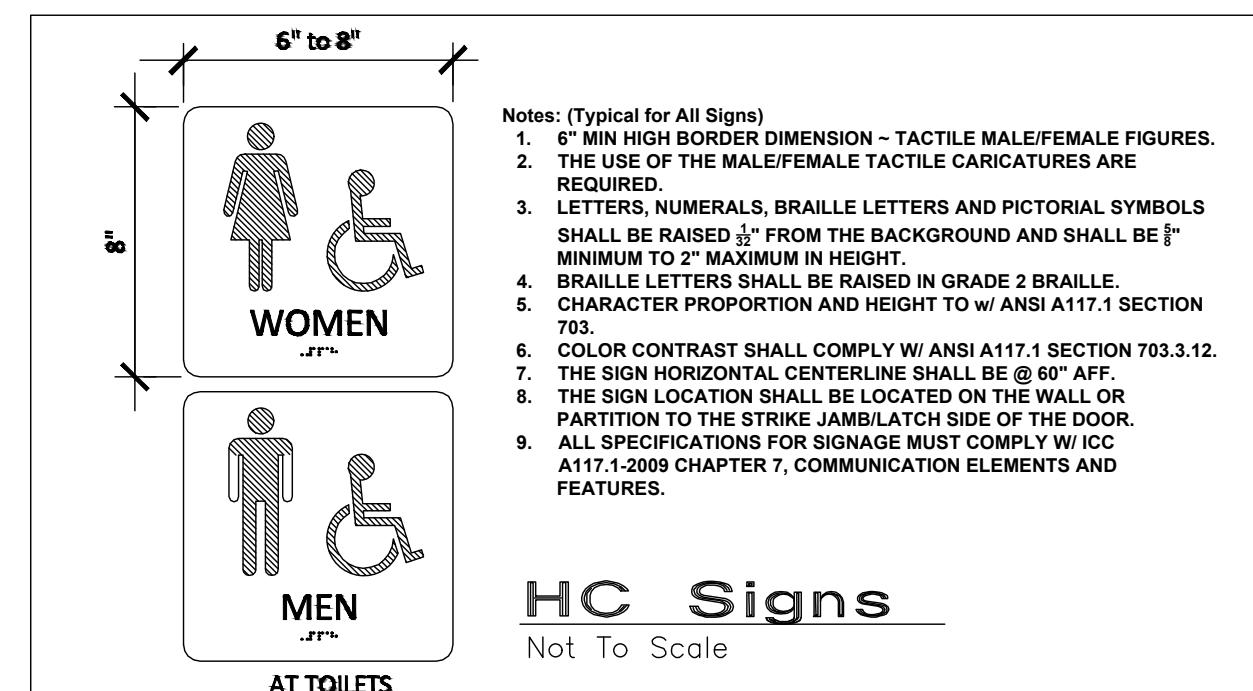
NOTES

- HANDICAPPED ACCESS MOUNTING DIMENSIONS ARE VERY CRITICAL AND HAVE NO MINUS TOLERANCES. MOUNTING LOCATION OF TOILET ACCESSORIES TO BE IN ACCORDANCE WITH A.D.A. TITLE III & FLORIDA BUILDING CODE 7th EDITION (2020) - ACCESSIBILITY.
- ALL DIMENSIONS SHOWN ARE FROM FACE OF FINISH. FINISH THICKNESS MUST BE ADDED TO ANY ROUGH IN DIMENSIONS.

WHERE THE TOILET IS FOR INDIVIDUAL USE AND CLEAR FLOOR SPACE COMPLYING WITH FBC-ACCESS 305.3 (A 30"x48" SPACE) IS PROVIDED WITHIN THE ROOM BEYOND THE ARC OF THE DOOR SWING, DOORS SHALL BE PERMITTED TO SWING INTO THE CLEAR FLOOR SPACE OR CLEARANCE REQUIRED FOR ANY FIXTURE (FBC-ACCESS 603.2.3 EXCEPTION 2)

WHERE THE SPACE BENEATH AN ELEMENT IS INCLUDED AS PART OF THE CLEAR FLOOR OR GROUND SPACE, THE SPACE SHALL COMPLY WITH FBC-ACCESSIBILITY 306 FOR KNEE & TOE CLEARANCE

THE SPACE BENEATH THE SINK COMPLIES WITH THIS REQUIREMENT

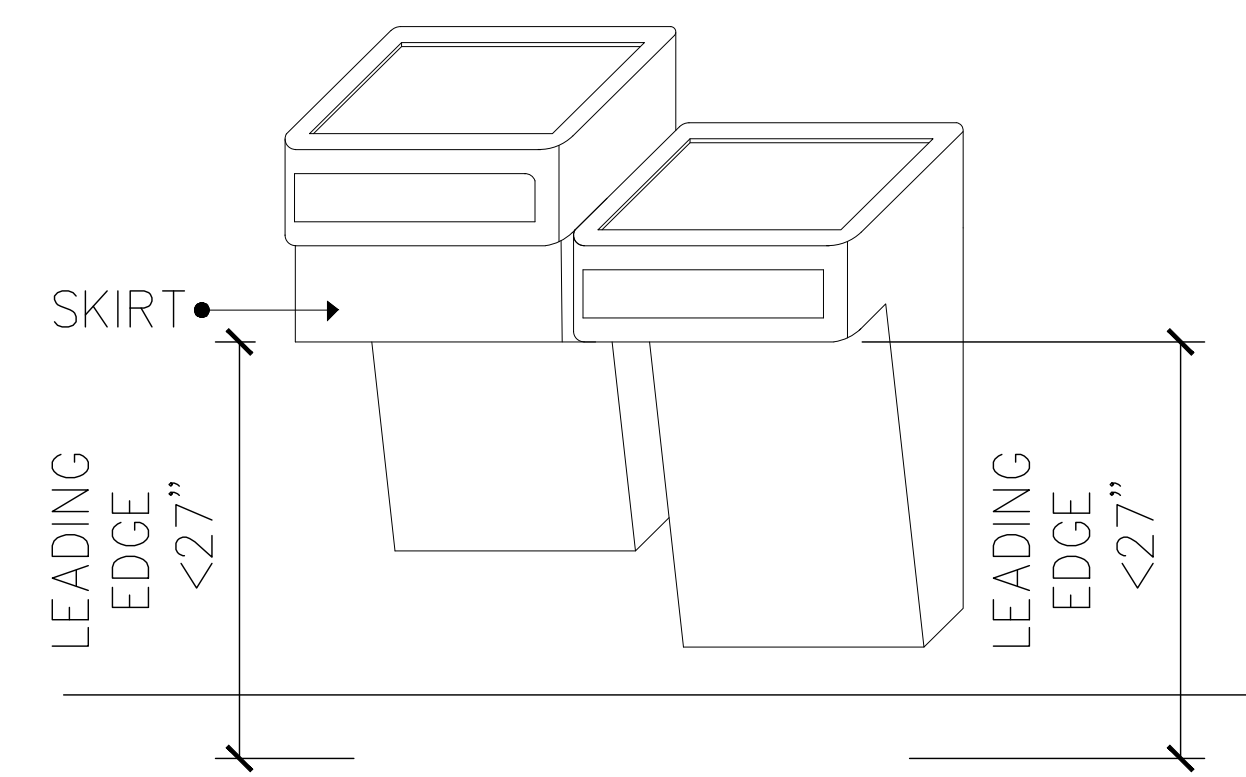


WOMEN'S RESTROOM SIGN EQUAL TO ADA SIGN DEPOT - ADA COMPLIANT WOMEN'S RESTROOM SIGNS WITH TACTILE TEXT AND GRADE 2 BRAILLE - ADA COMPLIANT MEN'S RESTROOM SIGN WITH TACTILE TEXT AND BRAILLE

MEN'S RESTROOM SIGN EQUAL TO ADA SIGN DEPOT - ADA COMPLIANT MEN'S RESTROOM SIGN WITH TACTILE TEXT AND BRAILLE

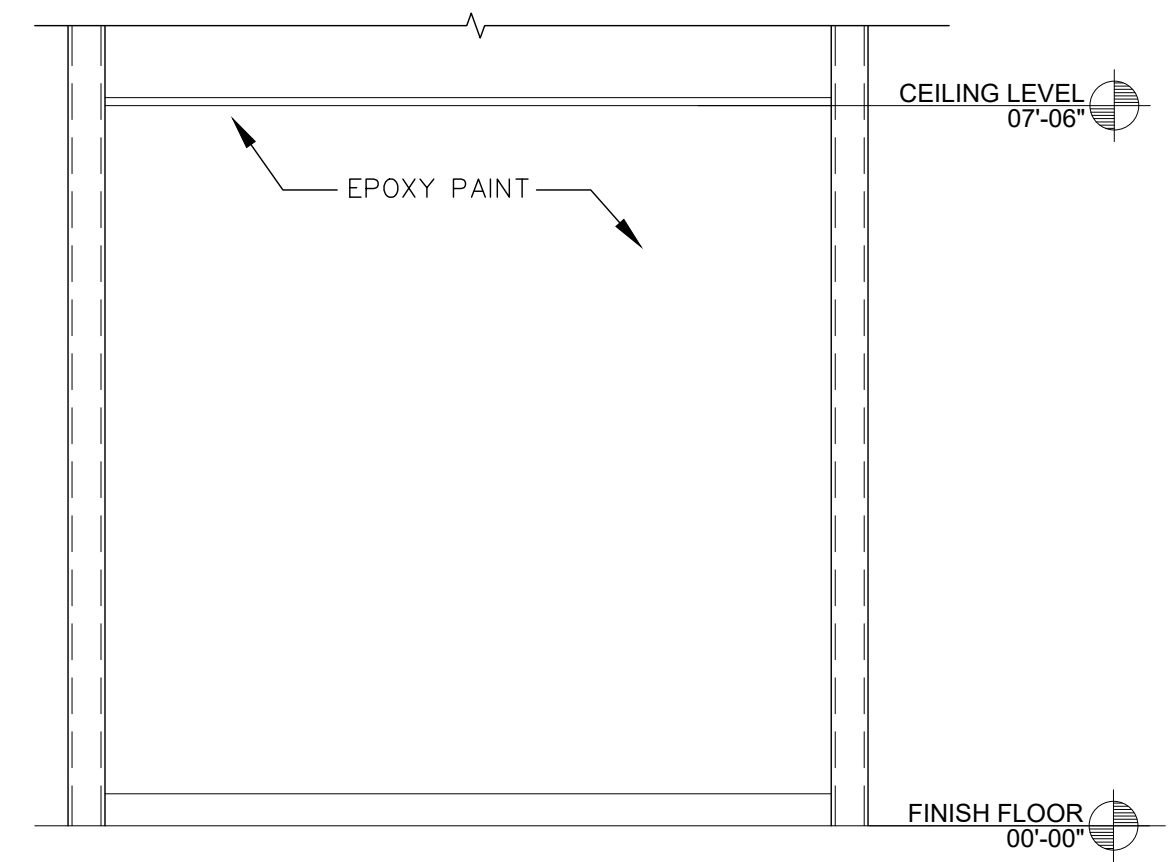
ADA-1020; Color - White on Blue

ADA-1021; Color - White on Blue



DRINKING FOUNTAIN

SCALE: N.T.S. CANE DETECTABLE SKIRT



ELEVATION 08

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

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ADDITION AND REMODEL
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SHEET TITLE: ETR PLAN & ELEVATION

NO.	DATE	REVISION

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SHEET
A-4

DOOR / OPENING SCHEDULE

MARK	LOCATION	DOORS				FRAMES		HDW GRP	LBL/ RTG	REMARKS
		TYPE	SIZE	MATL	GLAZING	LOUVER	MATL			
101	WAITING	C	3'0" x 7'0" x 1 3/4"	HM		--	MTL	1		
103	OFFICE	F	3'0" x 7'0" x 1 3/4"	WD		--	MTL	2		
104	STORAGE	F	3'0" x 7'0" x 1 3/4"	WD		--	MTL	3	90MIN	90MIN FIRE RATED DOOR
105	TOILET	F	3'0" x 7'0" x 1 3/4"	WD		--	MTL	4		
106	TOILET	F	3'0" x 7'0" x 1 3/4"	WD		--	MTL	4		
107	HALL	C	3'0" x 7'0" x 1 3/4"	HM		--	MTL	1		
108	SERVICE BAY	C	3'0" x 7'0" x 1 3/4"	HM		--	MTL	1		
108A										NOT USED
108B	SERVICE BAY	CD	10'0" x 12'0"	STL		--	--	5		COILING DOOR
108C	SERVICE BAY	CD	10'0" x 12'0"	STL		--	--	5		COILING DOOR
108D	SERVICE BAY	CD	10'0" x 12'0"	STL		--	--	5		COILING DOOR
108E	SERVICE BAY	CD	10'0" x 12'0"	STL		--	--	5		COILING DOOR

AL/GL = ALUMINUM/GLASS
MTL = METAL

STL = STEEL
WD = WOOD

DOORS AND HARDWARE

- ALL INTERIOR DOORS TO BE FLUSH SOLID CORE WOOD DOORS (BIRCH), PAINT FINISH. FRAMES SHALL BE PAINTED STEEL (WELDED).
- 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.
- ALL EXTERIOR STEEL DOORS & DOORS SHALL BE GALVANIZED, INSULATED (R-7) METAL DOORS w/ GALVANIZED METAL FRAMES. SEE SPECS FOR GAGES & CONSTRUCTION.
DOOR: Level 1 - Standard-duty, Model 1, nominal 20 gage/0.032 inch (0.8 mm) face sheets, 1 3/4", full flush design
DOOR FRAMES: Level 1 for Door Models 1, nominal 18 gage/0.042 inch (1.0 mm) thick material, base metal thickness.
- COORDINATE ALL KEYING & LOCKSETS WITH TENANT.
- ALL EXTERIOR DOORS & WINDOWS SHALL HAVE CURRENT FLORIDA PRODUCT APPROVALS.

- HARDWARE GROUP 1
1 1/2 PR NRP BB HINGES
1 CLOSER
1 LOCKSETS W/ DOOR LEVERS
1 PANIC HARDWARE EXIT DEVICE
3 DOOR SILENCERS
1 DOOR SWEEP
1 ALUMINUM THRESHOLD
1 SET WEATHERSTRIP
1 RAIN DRIP DAP
1 KICKPLATE

- HARDWARE GROUP 2
1 OFFICE LOCKSET
ANSI F82 KEY OPENS LOCK FROM OUTSIDE, PUSH-BUTTON LOCKING FROM INSIDE.
LATCH TURNING INSIDE RETRACTS LOCK
1 1/2 PR BUTT HINGES
3 DOOR SILENCERS
1 WALL STOP

- HARDWARE GROUP 3
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

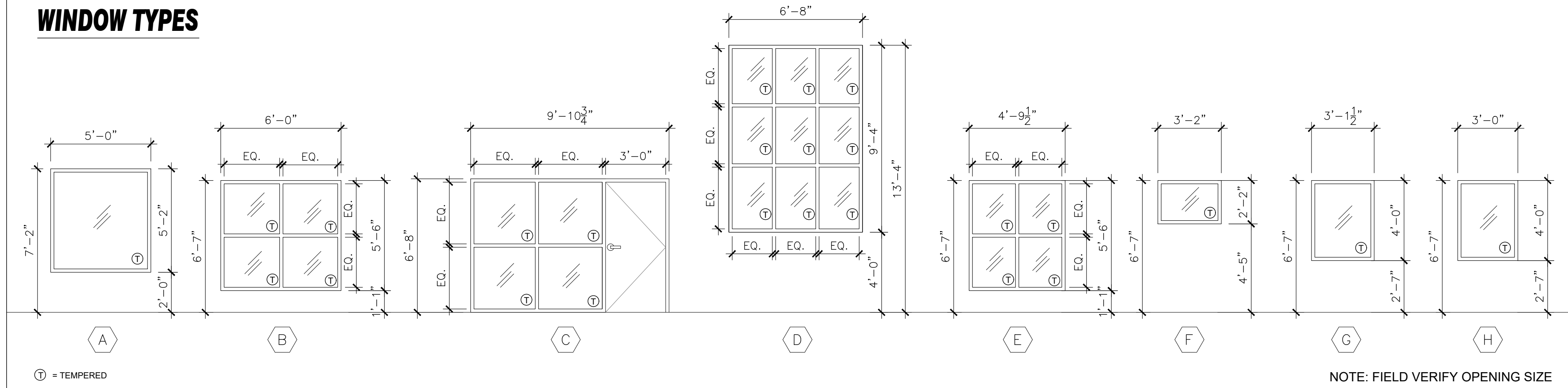
- HARDWARE GROUP 4
1 PRIVACY LOCKSET
1 1/2 PR BUTT HINGES
3 DOOR SILENCERS
1 WALL STOP
ANSI F76 BED/BATH PRIVACY LOCK:
PUSH-BUTTON LOCKING, TURNING
INSIDE LEVER RELEASES PUSH-BUTTON.
CAN OPEN FROM OUTSIDE VIA
EMERGENCY RELEASE
1 MOP PLATE
1 KICK PLATE

- HARDWARE GROUP 5
(COILING DOOR)
INTERIOR SLIDE BOLT FOR LOCK
MANUAL CHAIN HOIST
HOOD ENCLOSURE (24 GA GALV)
NOMINAL 2" SLATS INSULATED R-5 MIN.
WEATHERSTRIPPING (MOISTURE AND ROT PROOF)
AT JAMBS, HOOD AND BOTTOM
GUIDES: GALVANIZED STEEL ANGLES
SLATS: MIN 20 GAGE GALV STEEL SLATS

FIRE RATED DOORS:

- ALL FIRE RATED DOORS SHALL CONFORM TO NFPA 80.
- ALL FIRE RATED DOORS SHALL BE EQUIPPED WITH LEVER HANDLES THAT ARE ALWAYS UNLOCKED IN THE DIRECTION OF TRAVEL.
- ALL FIRE RATED DOORS SHALL HAVE ANSI A117.1 & FBC-ACCESSIBILITY CODE COMPLIANT HARDWARE.
- ALL FIRE RATED DOORS SHALL BE EQUIPPED WITH CLOSERS AND HAVE POSITIVE LATCHING.
- PROVIDE FIRE RATED FRAMES WITH ALL FIRE RATED DOORS.
- PROVIDE BALL BEARING HINGES ON ALL FIRE RATED DOORS.
- PROVIDE TEMPERATURE RISE RATINGS (AVERAGE TEMP RISE DEVELOPED ON THE UNEXPOSED SIDE SHALL NOT EXCEED 450°F (232°C) AT THE END OF 30 MINUTES OF FIRE TEST EXPOSURE) ON ALL FIRE RATED DOORS.

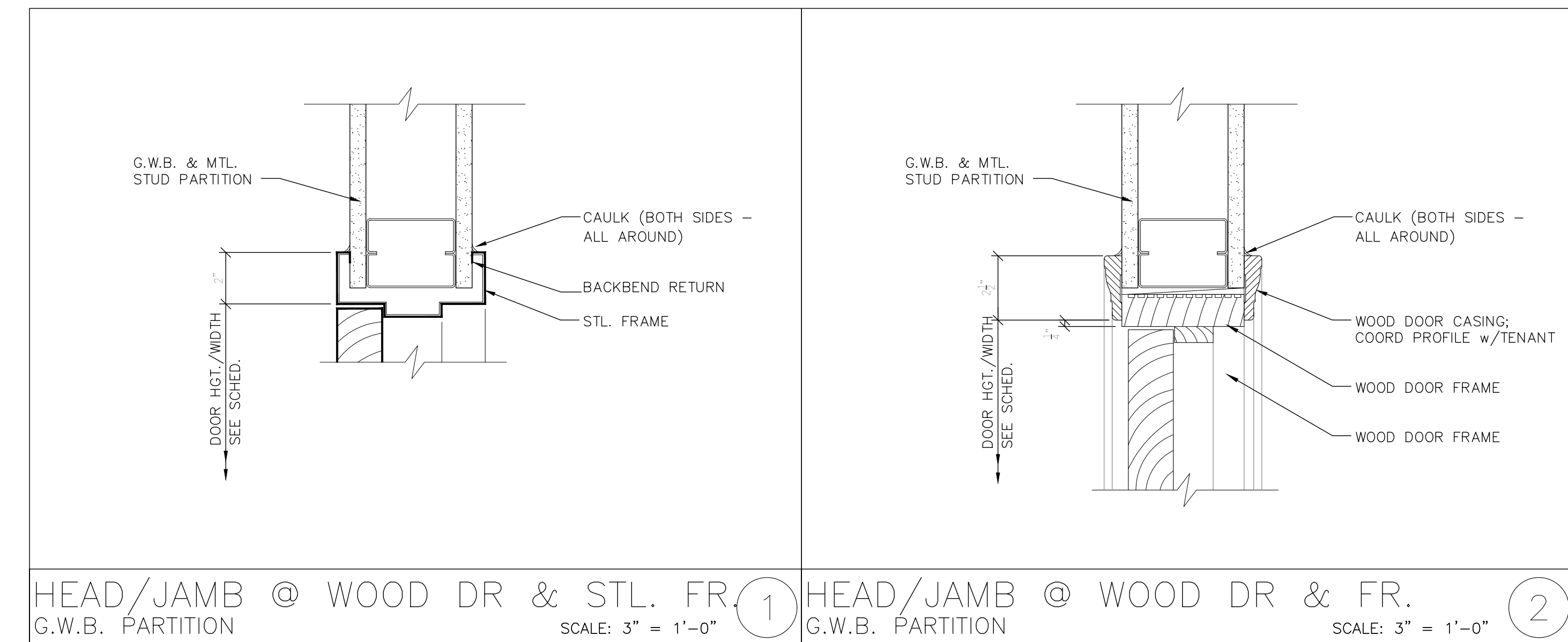
WINDOW TYPES



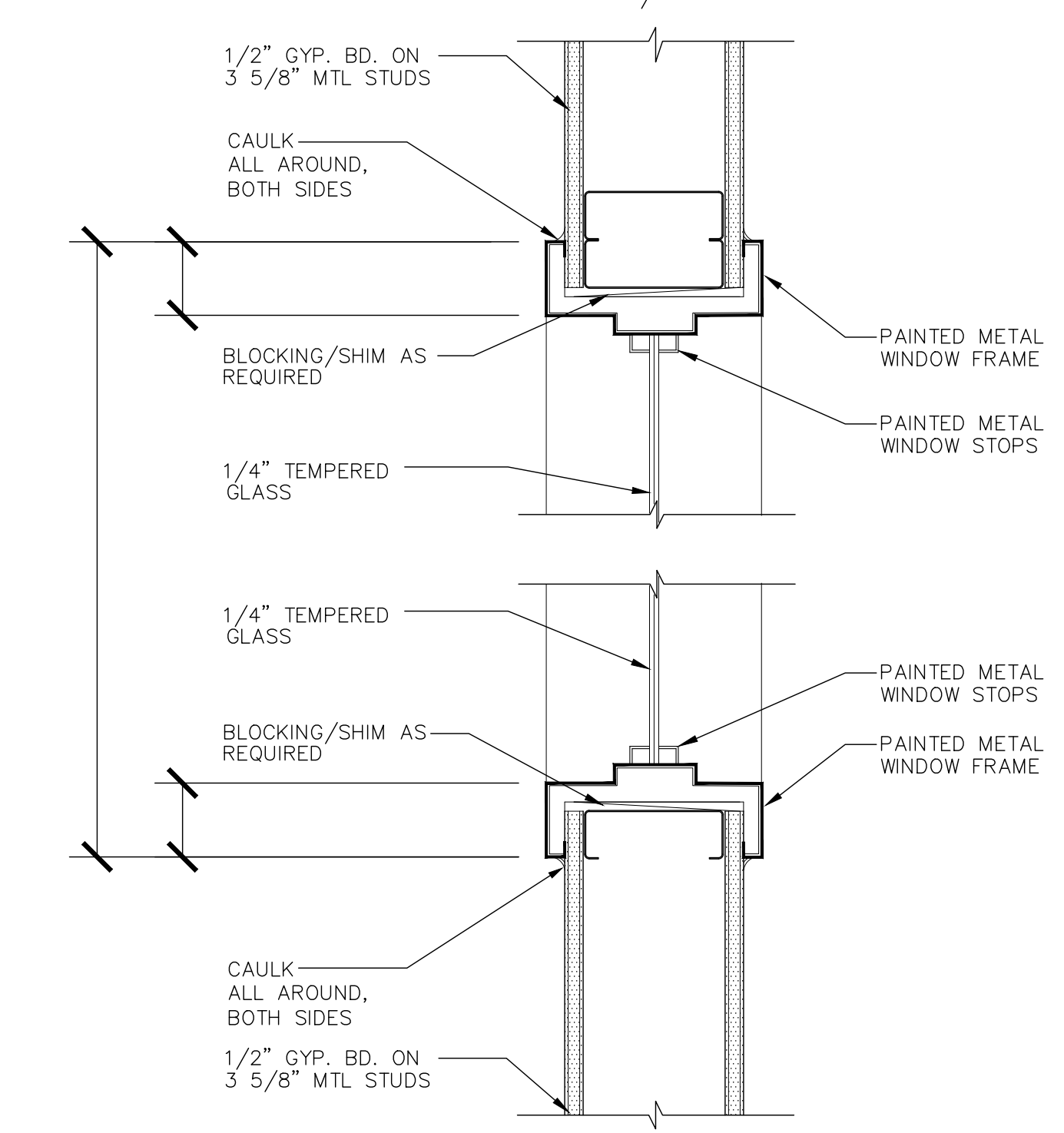
STOREFRONT SYSTEM:

ANODIZED ALUMINUM FRAME
AIR INFILTRATION: 0.01 CFM/FT² WHEN TESTED IN ACCORDANCE WITH ASTM E 283-91 AT A DIFFERENTIAL STATIC PRESSURE OF 6.24 PSF.
WATER INFILTRATION: 20 PSF WHEN TESTED IN ACCORDANCE WITH ASTM E 331-93 AT A STATIC PRESSURE OF 20 PSF.
DEFLECTION: L/175 OR 3/4" MAX. WHEN TESTED IN ACCORDANCE WITH ASTM E 330-90 WITH ALLOWABLE STRESS IN ACCORDANCE WITH AA SPECIFICATIONS FOR ALUMINUM STRUCTURES

GLAZING: TEMPERED AS NOTED
(EXTERIOR GLASS EQUAL TO PPG SOLARBLUE WITH LOW E: SOLARBAN 90(2) SOLARBLUE + CLEAR) - ASTM E773/E774
COMPLY WITH WIND PRESSURE LOADS LISTED ON STRUCTURAL DRAWINGS FOR POSITIVE AND NEGATIVE PRESSURE.
"U" VALUE = .45 (MAX)
VISIBLE LIGHT TRANSMITTANCE = .47 (MAX)
SHADING COEFFICIENT = .58 (MAX)
SOLAR HEAT GAIN COEFFICIENT = .25 (MAX)
FRAME FINISH: VERIFY FRAME FINISH WITH OWNER
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 PUSH/ADA ACCESSIBLE PULL BARS AND HINGES, CLOSERS, SILL IN A BED OF SEALANT UNDER DOORS. FIELD VERIFY ALL WINDOW OPENINGS PRIOR TO FABRICATION



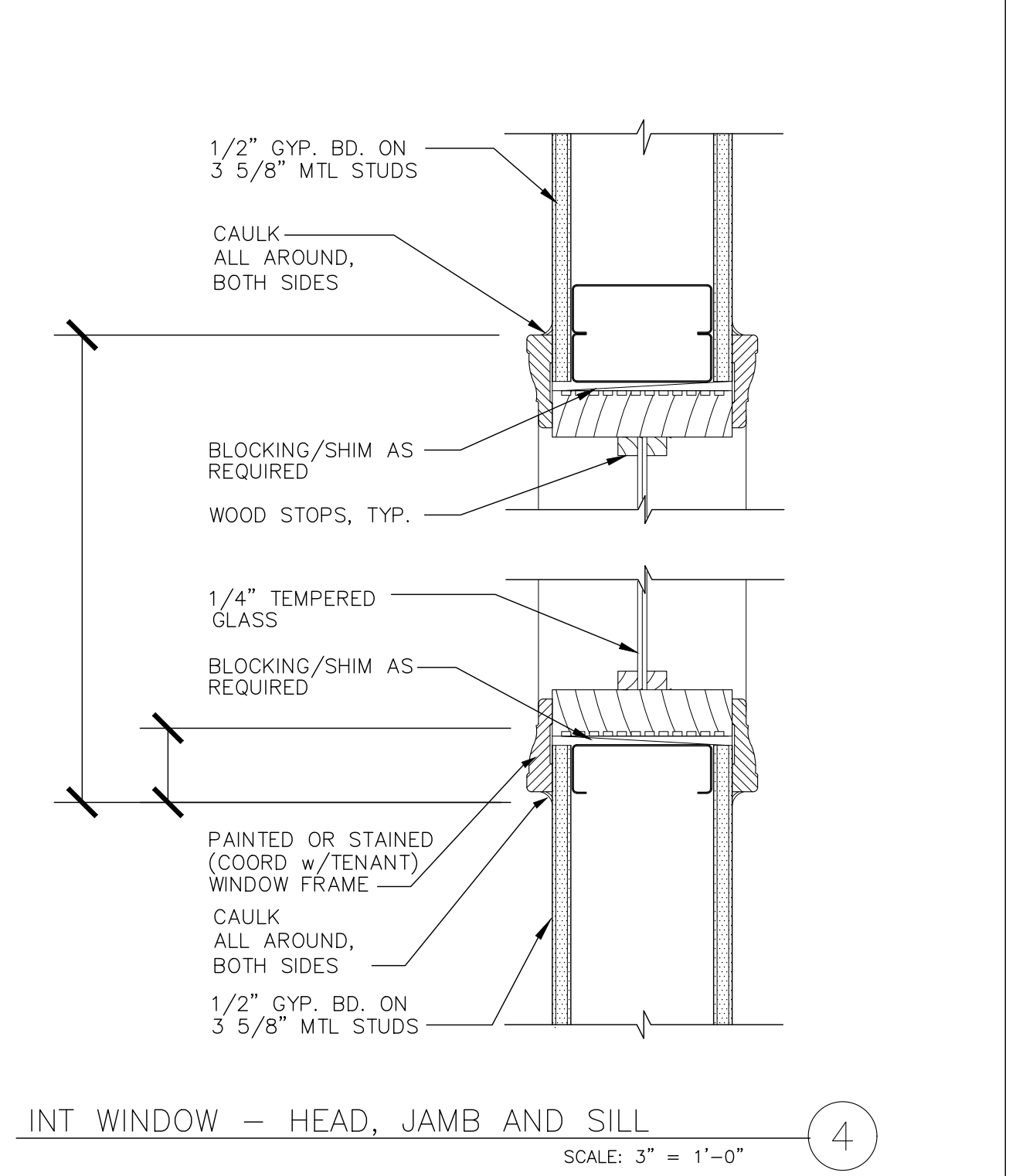
INT WINDOW - HEAD/JAMB



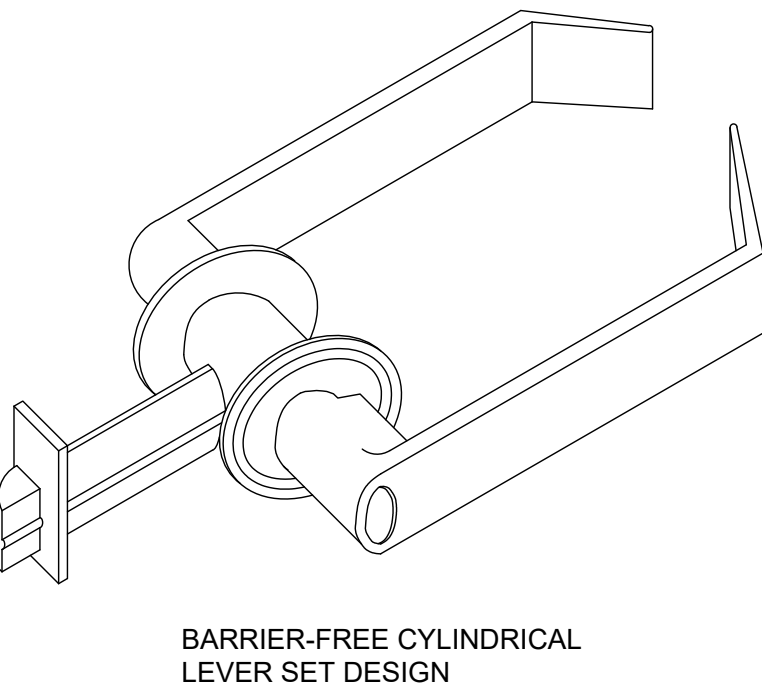
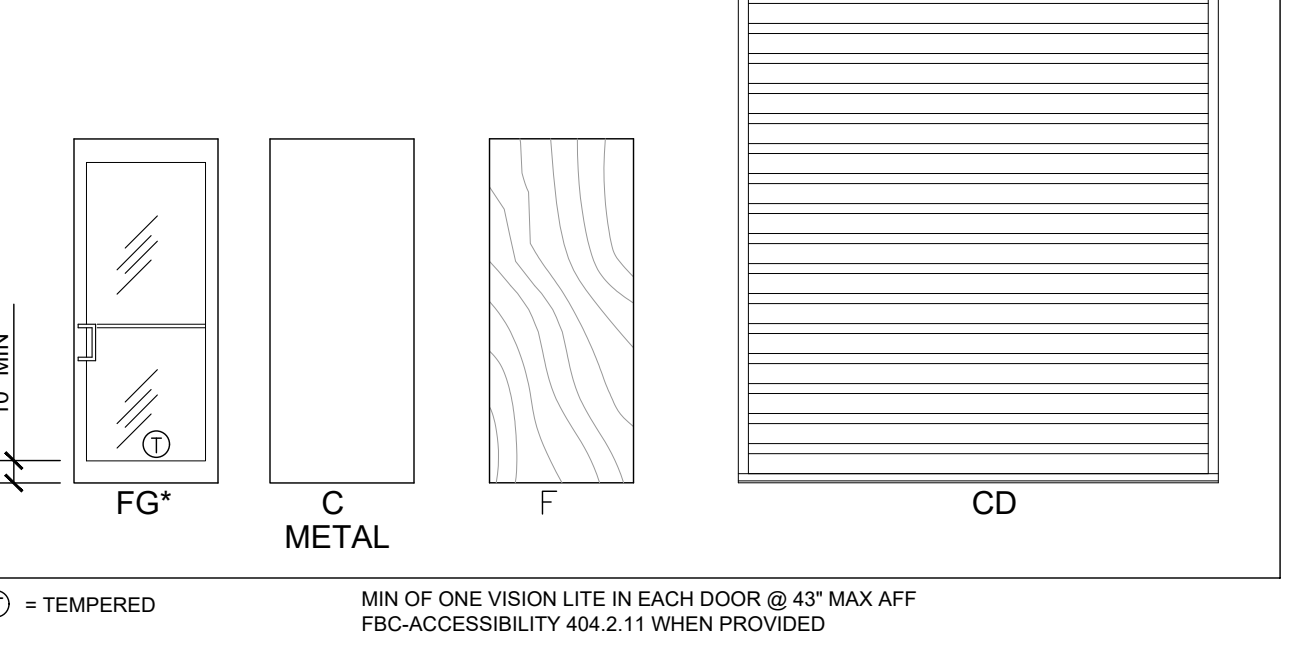
INT WINDOW - SILL



INT WINDOW - HEAD, JAMB AND SILL



DOOR TYPES



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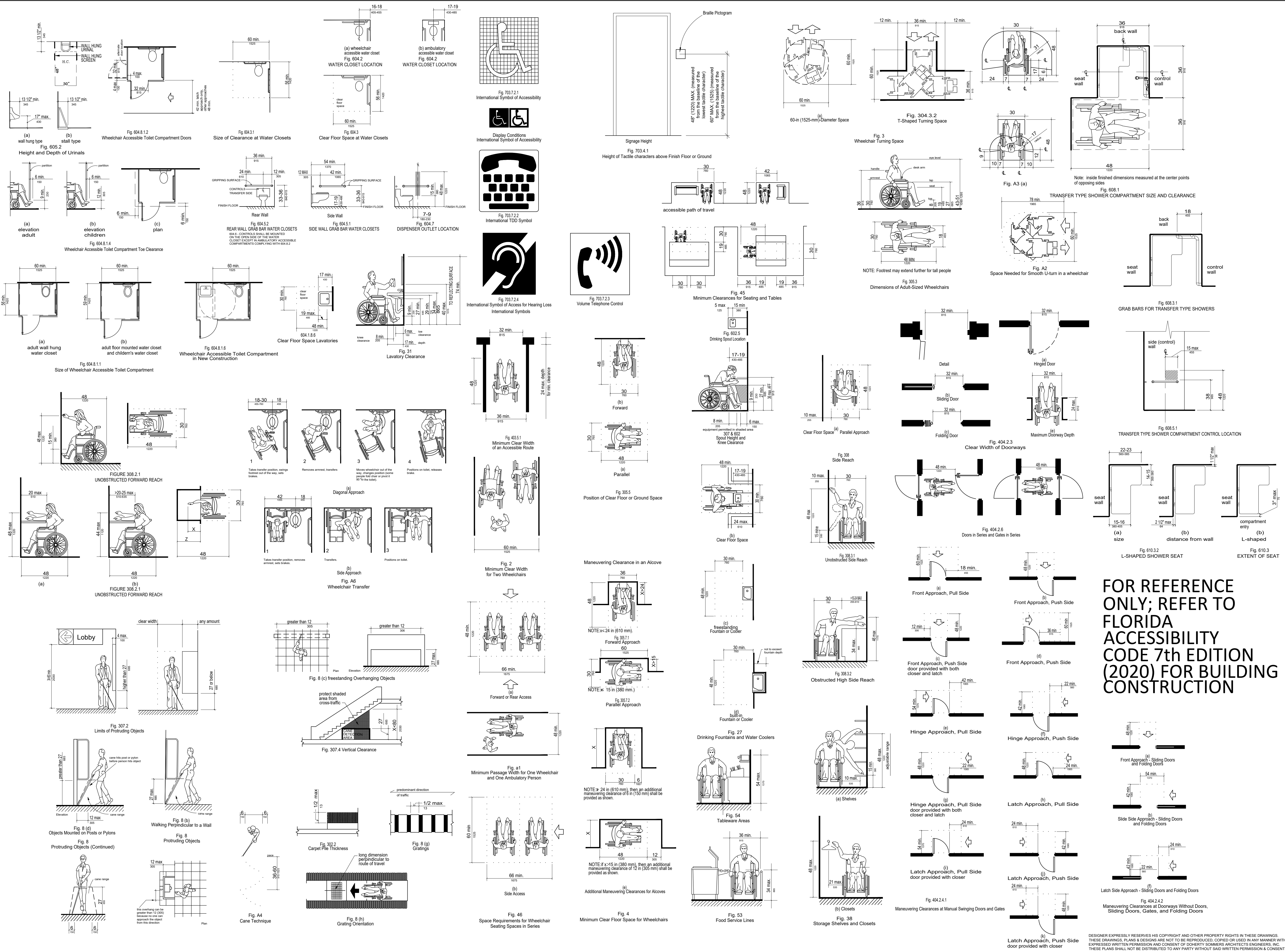
SHEET TITLE: DOOR & WINDOW SCHEDULE	
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SHEET

A-4.1

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SHEET TITLE: ACCESSIBILITY GUIDELINES	
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SHEET
A-5

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

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DESIGN CODE: 2020 FLORIDA BUILDING CODE
 DESIGN LOADS: ACTUAL AND UNIFORM

ROOF LOADING: (cd=1.25)

TOP CHORD LIVE LOAD	20 psf
TOP CHORD DEAD LOAD	15 psf (FLAT ROOF)
BOTTOM CHORD LIVE LOAD	0 psf
BOTTOM CHORD DEAD LOAD	5 psf

DEFLECTION CRITERIA:
 ROOF FRAMING: LIVE LOAD L/360 TOTAL LOAD L/240

WIND LOADS:

BASIC WIND SPEED	130 MPH
RISK CATEGORY	II
EXPOSURE CATEGORY	'C'
MEAN ROOF HEIGHT	12.58 FT.
ENCLOSURE CLASSIFICATION	'ENCLOSED'
INTERNAL PRESSURE COEFFICIENTS	+0.18 WINDOW/DOOR PRESSURES
	SEE SCHEDULE THIS SHEET

COMPONENTS & CLADDING DESIGN WIND PRESSURES

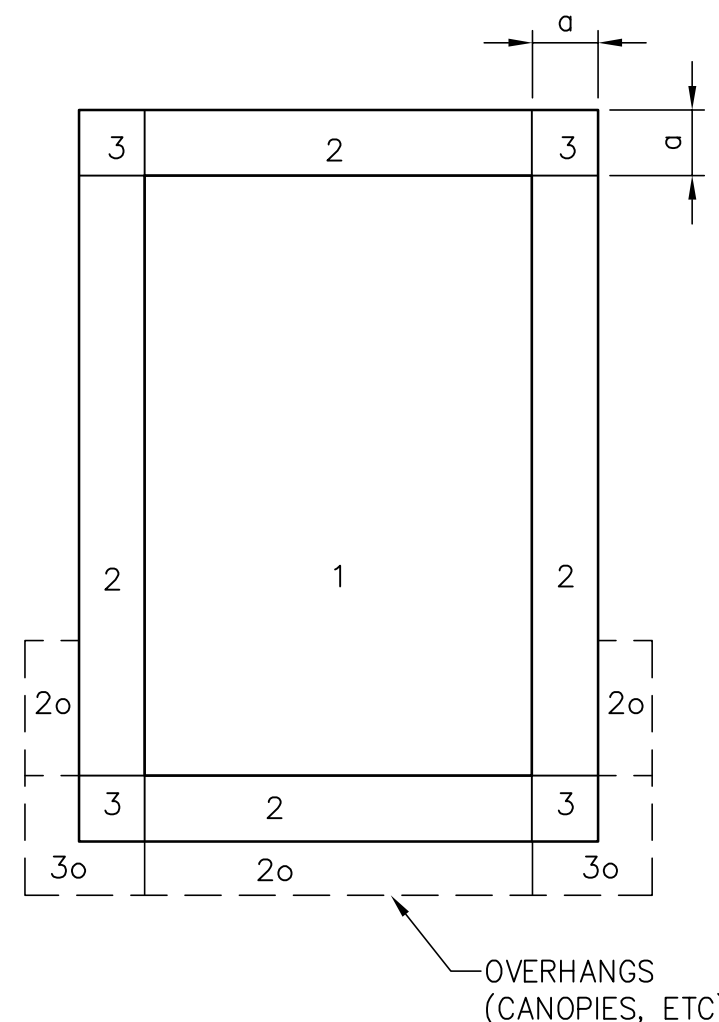
ROOF COMPONENTS & CLADDING

ROOF NOMINAL DESIGN PRESSURES, 'a' = 3'-0"

TRIBUTARY AREA (sf)	ZONE 1 (PSF)	ZONE 2 (PSF)	ZONE 3 (PSF)
10	+7.44 -29.04	+7.44 -38.00	+7.44 -52.26
50	+6.36 -24.6	+6.36 -32.64	+6.36 -40.8
100	+5.88 -22.68	+5.88 -30.12	+5.88 -35.88

ROOF OVERHANG NOMINAL DESIGN PRESSURES

TRIBUTARY AREA (sf)	ZONE 1o (PSF)	ZONE 2o (PSF)	ZONE 3o (PSF)
10	-26	-36	-49
50	-25	-28	-36
100	-25	-25	-30



ROOF PLAN (GENERIC BUILDING SHOWN)

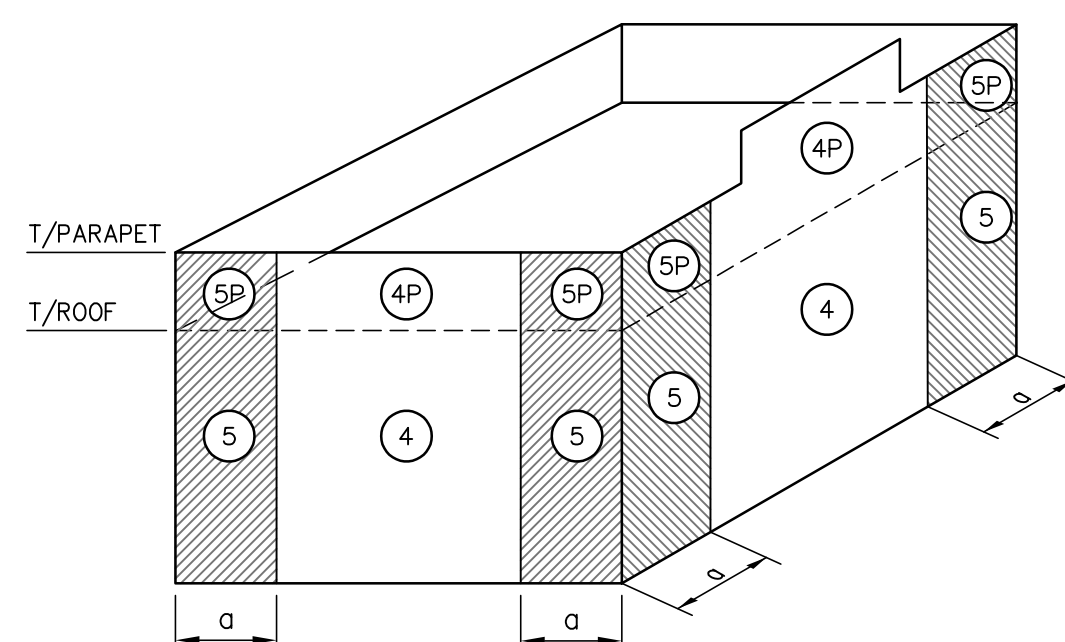
WALL COMPONENTS & CLADDING

WALL NOMINAL DESIGN PRESSURES (PSF), 'a' = 3'-0"

TRIBUTARY AREA (sf)	INTERIOR ZONE 4	EDGE STRIP ZONE 5
10	+18.24 -19.8	+18.24 -24.42
50	+16.32 -17.88	+16.32 -20.58
100	+15.54 -17.04	+15.54 -18.96

PARAPET NOMINAL DESIGN "P" PRESSURES

TRIBUTARY AREA (sf)	INTERIOR ZONE 4P		EDGE ZONE 5P	
	WINDWARD	LEEWARD	WINDWARD	LEEWARD
10	56.24	-38.04	+70.5	-42.66
50	48.96	-34.2	+57.12	-36.9
100	45.66	-32.58	+51.42	-34.5



WALLS (GENERIC BUILDING SHOWN)

- CLADDING TABLE NOTES:**
- DESIGN WIND PRESSURES REPRESENT THE NET PRESSURE (SUM OF EXTERNAL & INTERNAL PRESSURES) APPLIED NORMAL TO WALL SURFACES.
 - LINEAR INTERPOLATION BETWEEN VALUES OF TRIBUTARY AREA IS PERMISSIBLE.
 - PLUS AND MINUS SIGNS SIGNIFY PRESSURE ACTING TOWARD & AWAY FROM THE EXTERIOR WALL SURFACE.
 - ALL COMPONENT & CLADDING WALL ELEMENTS SHALL BE DESIGNED FOR BOTH POSITIVE AND NEGATIVE PRESSURES SHOWN IN TABLE.
 - COMPONENT & CLADDING ELEMENTS WITHIN END DISTANCE FROM THE CORNER OF THE BUILDING SHALL BE DESIGNED FOR THE EDGE STRIP PRESSURES. OTHERWISE, USE INTERIOR ZONE PRESSURES.
 - DESIGN OF WINDOWS/DOORS FASTENING TO THE WALL FRAMING IS THE RESPONSIBILITY OF THE WINDOW/DOOR MANUF./SUPPLIER & SHALL MEET THE ABOVE NOTED POSITIVE AND NEGATIVE PRESSURES.
 - THE VALUES ABOVE ARE ALLOWABLE WIND PRESSURE VALUES (ASD). THE ABOVE WIND PRESSURES HAVE BEEN REDUCE BY 0.60 AS PERMITTED BY THE ALLOWABLE STRESS DESIGN METHODOLOGY. NO FURTHER REDUCTION SHALL BE PERMITTED

GENERAL NOTES:
 THESE CONTRACT DOCUMENTS REPRESENT THE FINISHED STRUCTURE. THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY TO PROTECT THE STRUCTURE, WORKERS AND OTHER PERSONS DURING CONSTRUCTION. SUCH MEASURES SHALL INCLUDE, BUT ARE NOT LIMITED TO, MEANS AND METHODS, BRACING, SHORING, FORMS, SCAFFOLDING, GUYING OR OTHER MEANS TO AVOID EXCESSIVE STRESSES AND TO HOLD STRUCTURAL ELEMENTS IN PLACE DURING CONSTRUCTION. OBSERVATION VISITS TO THE SITE BY THE STRUCTURAL ENGINEER OR STRUCTURAL OBSERVERS SHALL NOT INCLUDE INSPECTION OF THE ABOVE ITEMS.

TYPICAL DETAILS AND NOTES ON THESE SHEETS SHALL APPLY UNLESS SPECIFICALLY SHOWN OR NOTED OTHERWISE. CONSTRUCTION DETAILS NOT FULLY SHOWN OR NOTED SHALL BE SIMILAR TO DETAILS SHOWN FOR SIMILAR CONDITIONS. ALL WORK, MATERIALS AND CONSTRUCTION SHALL COMPLY WITH ALL APPLICABLE BUILDING CODES, REGULATIONS AND SAFETY REQMT'S.

FOR CLARITY, ALL OPENINGS MAY NOT BE SHOWN ON DRAWINGS. SEE ALSO ARCHITECTURAL, MECHANICAL, ELECTRICAL AND PLUMBING PLANS. ALL OPENINGS AND PENETRATIONS SHALL BE LOCATED AND VERIFIED BY ALL TRADES FROM DRAWINGS MADE BY THEM. CONTRACTOR SHALL NOT PROCEED WITH ANY WORK SHOWN ON DRAWINGS IF IN CONFLICT UNTIL RECEIVING CLARIFICATION FROM ARCHITECT. FOR FRAMING AT OPENINGS, SEE TYPICAL STRUCTURAL DETAILS.

WHERE A DETAIL, TYPICAL DETAIL, SECTION, TYPICAL SECTION OR PLAN NOTE IS SHOWN FOR ONE CONDITION, IT SHALL APPLY FOR ALL SIMILAR OR LIKE CONDITIONS UNLESS OTHERWISE NOTED.

CONTRACT DOCUMENTS INCLUDE, BUT ARE NOT LIMITED TO, THE STRUCTURAL DOCUMENTS (DRAWINGS AND SPECIFICATIONS), BUT DO NOT INCLUDE SHOP DRAWINGS, VENDOR DRAWINGS, OR MATERIAL PREPARED AND SUBMITTED BY THE CONTRACTOR.

GENERAL NOTES CONTINUE:
 CONTRACT DOCUMENTS SHALL GOVERN IN THE EVENT OF A CONFLICT WITH THE CODE OF PRACTICE OR SPECIFICATIONS OF ACI, PCI, AISC, SJI OR OTHER STANDARDS. WHERE A CONFLICT OCCURS WITHIN THE CONTRACT DOCUMENTS, THE STRICTEST REQUIREMENT SHALL GOVERN.

MATERIAL, WORKMANSHIP, AND DESIGN SHALL CONFORM TO THE REFERENCED BUILDING CODE.

THE GENERAL CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND SITE CONDITIONS AND NOTIFY ARCHITECT OF ANY DISCREPANCIES PRIOR TO PROCEEDING WITH WORK. FOR DIMENSIONS NOT SHOWN ON STRUCTURAL DRAWINGS, SEE ARCHITECTURAL DRAWINGS. DO NOT SCALE FOR DIMENSIONS NOT SHOWN ON DRAWINGS. SEND WRITTEN REQUEST FOR INFORMATION TO THE ARCHITECT FOR DIMENSIONS NOT PROVIDED.

ALL DIMENSIONS AND ELEVATIONS SHOWN ON STRUCTURAL DRAWINGS SHALL BE VERIFIED WITH ARCHITECTURAL DRAWINGS. RESOLVE ALL DISCREPANCIES WITH ARCHITECT PRIOR TO START OF CONSTRUCTION. DO NOT SCALE DRAWINGS COORDINATE THE STRUCTURAL DOCUMENTS WITH THE ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING AND CIVIL DOCUMENTS. ARCHITECT/STRUCTURAL ENGINEER SHALL BE NOTIFIED OF ANY DISCREPANCY OR OMISSION.

CONTRACTOR HAS SOLE RESPONSIBILITY FOR MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES OF CONSTRUCTION. CONTRACTOR HAS SOLE RESPONSIBILITY FOR THE DESIGN, ADEQUACY, AND SAFETY OF ERECTION BRACING, SHORING, TEMPORARY SUPPORTS. CONTRACTOR HAS SOLE RESPONSIBILITY TO COMPLY WITH ALL OSHA SAFETY REGULATIONS FOR ITS EMPLOYEES.

NO STRUCTURAL CHANGE FROM THE APPROVED PLANS AND SPECIFICATIONS SHALL BE MADE IN THE FIELD UNLESS WRITTEN APPROVAL IS OBTAINED PRIOR TO MAKING SUCH CHANGE. CHANGES WITHOUT THE WRITTEN APPROVAL SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONDITION SHALL BE REPAIRED OR REPLACED AS DIRECTED.

THE MECHANICAL CONTRACTOR SHALL COORDINATE INSTALLATION OF THE REQUIRED INSERTS WITH THE GENERAL CONTRACTOR. REFER TO MECHANICAL DRAWINGS FOR SUPPORT STRUCTURES AND INSERTS. THE MECHANICAL CONTRACTOR SHALL FURNISH ALL NECESSARY STRUCTURES FOR MECHANICAL EQUIPMENT, HANGING DEVICES AND INSERTS FOR INSTALLATION OF MECHANICAL EQUIPMENT.

GENERAL MATERIAL SPECIFICATIONS: SEE SPECIFIC SECTIONS FOR MORE INFORMATION

ANCHOR BOLTS & THREADED ROD: SHALL BE IN ACCORDANCE WITH ASTM A 307 OR ASTM F1554 GRADE 36.
WASHERS: SHALL BE IN ACCORDANCE WITH ASTM A500 (GRADE B).
NUTS: SHALL BE IN ACCORDANCE WITH ASTM A 563 GRADE A HEX.
METAL CONNECTORS: ALL METAL CONNECTORS WHICH ARE EXPOSED TO EXTERIOR SHALL BE GALVANIZED.
RETROFIT REBAR/ROD INSTALLATION: EMBEDMENT OF RODS OR REBAR DOWELS SHALL BE 12 BAR DIAMETER MINIMUM, HOLES SHALL BE 1/4" LARGER THAN REBAR SIX AND 1/8" LARGER THAN THREADED ROD SIZE. (U.O.N.)
EPOXY: RED HEAD EPON 85.
REINFORCING STEEL: SHALL BE ASTM A615, GRADE 60.
STRUCTURAL STEEL: SHALL BE ASTM A992, GRADE 50.
WELDED WIRE FABRIC (WWF): SHALL BE ASTM A185.

FOUNDATIONS:
 GEOTECHNICAL DATA AND RECOMMENDATIONS HAVE NOT BEEN PROVIDED SABO STRUCTURAL ENGINEERING. THE CONTRACTOR SHALL OBTAIN A GEOTECHNICAL REPORT SIGN BY A FLORIDA PROFESSIONAL ENGINEER. THE GEOTECHNICAL ENGINEER SHALL VERIFY THE ALLOWABLE BEARING PRESSURE AND FOOTING DEPTH LISTED BELOW.

•SHALLOW FOUNDATIONS WITH ALLOWABLE BEARING PRESSURE = 2,500 PSF

ALL SHALLOW COLUMN FOUNDATIONS SHOULD BEAR AT A DEPTH OF AT LEAST 12 INCHES BELOW THE EXTERIOR FINAL GRADES. CONTRACTOR SHALL COORDINATE FOOTING DETAILS AND PREPARE GRADE PER GEOTECHNICAL REPORT. GEOTECHNICAL ENGINEER SHALL APPROVE THE DESIGN SOIL BEARING PRESSURE AND DEPTH OF FOOTING.

FOUNDATION PLAN ONLY CONVEYS STRUCTURAL INFORMATION. FOR GENERAL FEATURES, CONDUITS, ELECTRICAL EMBEDS, STEP HEIGHTS, ETC., SEE ARCHITECTURAL PLANS. DO NOT SCALE FOOTING DIMENSIONS AND LOCATIONS FROM THE FOUNDATION PLAN. IF FOOTING SIZE OR LOCATION IS NOT DETERMINED ON PLAN THEN CONTACT THE STRUCTURAL ENGINEER.

UNLESS OTHERWISE NOTED ON DRAWINGS, MINIMUM CONCRETE COVER FOR REINFORCING SHALL BE 3" IN FOOTINGS AND MESH SHALL BE CENTERED IN SLAB ON GRADE USING SUPPORT BARS AND CHAIRS. IN ALL CONTINUOUS FOOTINGS PROVIDE #4 @ 48" O.C. OR ROD CHAIRS. PROVIDE CONTINUITY OF REINFORCING AT INTERSECTIONS OF PERPENDICULAR CONCRETE ELEMENTS BY INSTALLING CORNER BARS, MINIMUM OF 40 BAR DIAMETERS INTO EACH ELEMENT. SPLICES IN REINFORCING, WHERE PERMITTED, SHALL BE 48 BAR DIAMETERS

THE GEOTECHNICAL ENGINEER SHALL ACT AS THE OWNER'S REPRESENTATIVE AND SHALL MAKE OBSERVATIONS AND TESTS AS CONSIDERED NECESSARY FOR QUALITY CONTROL. WHERE FOUNDATIONS OR OTHER CRITICAL ELEMENTS ARE TO BE SUPPORTED ON ENGINEERED FILL, CONTINUOUS OBSERVATIONS AND TESTS OF GRADING OPERATIONS SHALL BE MADE BY THE GEOTECHNICAL ENGINEER. ALL TESTS SHALL BE PERFORMED IN ACCORDANCE WITH PROCEDURES SET FORTH IN THE CURRENT BOOK OF STANDARDS OF THE AMERICAN SOCIETY OF TESTING AND MATERIALS (ASTM).

WHERE FILL IS REQUIRED, IT SHALL BE PLACED IN ACCORDANCE WITH INSTRUCTIONS OF THE PROJECT GEOTECHNICAL ENGINEER TO MAINTAIN DESIGN BEARING PRESSURE.

UNLESS SPECIFICALLY NOTED AS "CANTILEVERED" ON PLAN OR DETAILS, WALLS RETAINING EARTH MUST BE SHORED CONTINUALLY PRIOR TO COMPLETION OF STRUCTURAL SLABS ON GRADES AND/OR ELEVATED SLABS HAVE BEEN PLACED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING THE DESIGN, ADEQUACY, SAFETY, AND STABILITY OF TEMPORARY ERECTION BRACING AND SHORING.

BACKFILL AGAINST WALLS SHALL BE DEPOSITED EVENLY IN 8" TO 12" LIFTS AGAINST BOTH SIDES OF WALL UNTIL THE LOWER FINAL GRADE IS REACHED. CONTRACTOR SHALL PROVIDE ADEQUATE BRACING OR SHORING FOR ALL WORK DURING THE CONSTRUCTION PERIOD. BACKFILL SHALL NOT BE PLACED AGAINST WALLS UNTIL THE WALLS HAVE ACHIEVED 75% OF SPECIFIED DESIGN STRENGTH.

FOOTINGS SHALL BE CENTERED ABOUT COLUMN LINES UNLESS NOTED OTHERWISE.

TOP OF FOOTING ELEVATIONS PROVIDED ON DRAWINGS ARE FOR PURPOSES OF CONTRACT & SHALL BE ADJUSTED, AS REQUIRED, AT TIME OF EXCAVATION TO BEAR ON PROPERLY PREPARED SUPPORT SUBGRADE (PER GEOTECHNICAL REPORT RECOMMENDATIONS OR FIELD DIRECTIVES OF GEOTECHNICAL ENGINEER ON SITE) OR TO ADJUST FOOTING ELEVATIONS TO AVOID INFLUENCE BETWEEN FOUNDATIONS & BURIED PLUMBING. SEE TYPICAL FOOTING-TRENCH INFLUENCE DETAIL FOR SIMILAR REQUIREMENTS FOR INFLUENCE BETWEEN FOUNDATIONS & BURIED PLUMBING. DO NOT EMBED PIPING WITHIN OR PASS PIPING VERTICALLY OR HORIZONTALLY THROUGH ISOLATED FOOTINGS.

WHERE THE GEOTECHNICAL ENGINEER FINDS AN UNSTABLE CONDITION IS BEING CREATED, EITHER BY CUTTING OR FILLING, THE WORK SHALL NOT PROCEED IN THAT AREA UNTIL AN INVESTIGATION HAS BEEN MADE AND THE GRADING PLAN REVISED.

FILL TO BE COMPACTED TO 95% OF MAXIMUM DENSITY AS DETERMINED BY ASTM D-1557. PLACE FILL IN LAYERS OF 8" THICK MAXIMUM & UNDER THE DIRECT SUPERVISION OF THE GEOTECHNICAL ENGINEER. FILL TO BE TESTED TO VERIFY COMPACTION AS REQUIRED BY THE GEOTECHNICAL ENGINEER.

TESTS FOR DEGREE OF COMPACTION SHALL BE DETERMINED BY THE ASTM D-1556 OR ASTM D-2922 TEST METHODS. OBSERVATION AND FIELD TESTS SHALL BE CARRIED ON DURING FILL AND BACKFILL PLACEMENT BY THE GEOTECHNICAL ENGINEER TO ASSIST THE CONTRACTOR IN OBTAINING THE REQUIRED DEGREE OF COMPACTION. IF LESS THAN 95 (U.O.N. IN SOILS REPORT) PERCENT IS INDICATED, ADDITIONAL COMPACTION EFFORT SHALL BE MADE WITH ADJUSTMENT OF THE MOISTURE CONTENT AS REQUIRED COMPACTION IS OBTAINED.

SHOP DRAWINGS:
 DESIGN OF PRE-ENGINEERED SYSTEMS SPECIFIED IN THE CONTRACT DOCUMENTS WHICH ARE DESIGNED/ENGINEERED BY OTHERS IS THE SOLE RESPONSIBILITY OF THE DELEGATED ENGINEER. SUBMITTALS OF SUCH SYSTEMS SHALL BE SEALED BY AN ENGINEER LICENSED IN THE PROJECT STATE.

STRUCTURAL DRAWINGS INDICATE TYPICAL AND CERTAIN SPECIFIC CONDITIONS ONLY. SHOP DRAWINGS SHALL DETAIL ALL CONDITIONS IN ACCORDANCE WITH SPECIFIED STANDARDS AND THE SPECIFIC REQUIREMENTS OF THIS PROJECT AS INDICATED IN THE PROJECT DOCUMENTS.

THE CONTRACTOR SHALL SUBMIT, AS REQUIRED, PRINTS OF SHOP DRAWINGS FOR ALL FABRICATED MATERIALS TO ARCHITECT FOR REVIEW.

SHOP DRAWINGS (CONTINUE):
 REVIEW IS FOR GENERAL COMPLIANCE WITH THE CONTRACT DOCUMENTS. NO APPROVAL IS IMPLIED FOR THE ACCURACY OR COMPLETENESS OF DETAILS, QUANTITIES, DIMENSIONS, WEIGHTS OR GAUGES, FABRICATION PROCESSES, CONSTRUCTION MEANS OR METHODS, COORDINATION OF WORK WITH OTHER TRADES OR CONSTRUCTION SAFETY PRECAUTIONS - ALL OF WHICH ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. MARKINGS OR COMMENTS SHALL NOT BE CONSTRUED AS RELIEVING THE CONTRACTOR FROM COMPLIANCE WITH THE CONTRACT DOCUMENTS. THE CONTRACTOR IS RESPONSIBLE FOR CONFIRMING AND CORRELATING DIMENSIONS AT THE JOBSITE FOR TOLERANCES, CLEARANCES, FABRICATION PROCESSES AND TECHNIQUES OF CONSTRUCTION. REVIEW OF A SPECIFIC ITEM SHALL NOT INCLUDE A REVIEW OF THE ENTIRE ASSEMBLY OF WHICH THE ITEM IS A COMPONENT. REVIEW OF RE-SUBMISSION ONLY COVERS DESIGNATED CHANGES ON THE SUBMITTAL AND OTHER CHANGES CLEARLY IDENTIFIED BY THE CONTRACTOR. SHOP DRAWINGS REQUIRING A SPECIAL ENGINEERING DESIGN BY THE FABRICATOR SHALL BE STAMPED BY A REGISTERED ENGINEER OF RECORD IN THE STATE IN WHICH CONSTRUCTION WILL OCCUR BEFORE SUBMITTING FOR REVIEW BY THE ARCHITECT/ENGINEER.

COMPLETE SHOP DRAWINGS FOR CONSTRUCTION OF ALL APPLICABLE SPECIALTY ITEMS INCLUDING, BUT NOT LIMITED TO, ROOF TRUSSES, CURTAIN WALL GLAZING SYSTEMS, LIGHT GAGE STEEL FRAMING, ORNAMENTAL GUARDRAILS, SKYLIGHTS, AND STAIRS SHALL BE SEALED AND SIGNED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE IN WHICH THIS BUILDING SHALL BE CONSTRUCTED AND SHALL BE AVAILABLE AT THE JOB SITE DURING TIMES OF INSPECTION.

THE OWNER WILL NOT PAY FOR ADDITIONAL CHARGES DUE TO RE-DETAILING FEES ASSOCIATED WITH A THREE-DIMENSIONAL DETAILING PROGRAM. THE DETAILER SHALL ESTIMATE AND INCLUDE ANY COSTS IN THE BASE BID ASSOCIATED WITH RE-DETAILING FEES AS A RESULT OF CHANGES AND/OR REVISIONS MADE TO THE SHOP DRAWINGS DURING THE SHOP DRAWING REVIEW.

SEE GENERAL NOTES FOR DESIGN CRITERIA AND ADDITIONAL REQUIREMENTS. FOOTINGS, HOLDDOWNS, FASTENERS, ETC. INDICATED WITHIN WHICH SUPPORT A PRE-ENGINEERED ITEM ARE PRELIMINARY AND SUBJECT TO CHANGE AFTER REVIEW OF THE PRE-ENGINEERED SHOP DRAWINGS. THESE SHOP DRAWINGS SHALL ALSO BE SUBMITTED TO THE BUILDING DEPT. AS A DEFERRED SUBMITTAL TO THE PERMIT DOCUMENTS.

MISCELLANEOUS STRUCTURES:
 PRE-ENGINEERED ALUMINUM CANOPY STRUCTURES OR ANY OTHER APPENDAGE NOT SPECIFICALLY DETAIL HEREIN SHALL BE DESIGNED BY OTHERS. CONTRACTOR SHALL SUBMIT SHOP DRAWING INDICATING CONNECTION POINTS, REACTIONS, & FASTENER REQUIREMENTS. CONTRACTOR SHALL COORDINATE ANY LOADING REQUIREMENTS WITH DELEGATED CFS ENGINEER.

EARTHWORK TESTING:
 IT IS REQUIRED THAT THE SITE PREPARATION & FOUNDATION CONSTRUCTION BE MONITORED BY THE GEOTECHNICAL ENGINEER OR HIS REPRESENTATIVE. THE FOLLOWING ARE RECOMMENDED MINIMUM SAMPLING AND TESTING FREQUENCIES.

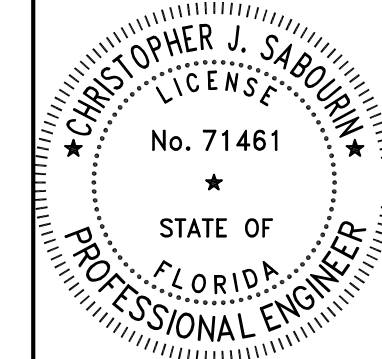
AT LEAST ONE MOISTURE-DENSITY (PROCTOR) TEST, ATTERBERG LIMITS TEST AND PERCENT FINER THAN #200 SIEVE TEST SHOULD BE PERFORMED PER EACH SOIL TYPE SUCH AS SUBGRADE AND SELECT FILL.

IN STRUCTURE AREAS, AT LEAST 1 DENSITY AND MOISTURE CONTENT TEST PER 5000 SQUARE FEET OF SURFACE AREA SHOULD BE PERFORMED ON THE SUBGRADE SOILS, AND AT LEAST 1 DENSITY AND MOISTURE CONTENT TEST PER 5000 SQUARE FEET OF SURFACE AREA SHOULD BE PERFORMED FOR EACH COMPACTED 8-INCH THICK LAYER OF FILL. TESTING BACKFILL TRENCHES SHOULD BE AT LEAST 1 DENSITY AND MOISTURE CONTENT TEST PER 100 LINEAR FEET OF TRENCH PER 8-INCH COMPACTED FILL THICKNESS. AT 25% OF ANY ISOLATED COLUMN FOOTING LOCATIONS

A MINIMUM OF AT LEAST FIVE (5) DENSITY AND MOISTURE CONTENT TESTS SHOULD BE PERFORMED IN THE BUILDING AREA ON THE SUBGRADE SOILS, AND A MINIMUM OF AT LEAST FIVE (5) DENSITY AND MOISTURE CONTENT TESTS SHOULD BE PERFORMED PER 8-INCH COMPACTED THICKNESS OF FILL IN THE BUILDING AREA. TESTING OF BACKFILLED TRENCHES SHOULD BE AT LEAST 1 DENSITY AND MOISTURE CONTENT TEST PER 100 LINEAR FEET OF TRENCH PER 8-INCH COMPACTED FILL THICKNESS. IT IS IMPERATIVE THAT A QUALIFIED FIELD TECHNICIAN BE ON-SITE DURING ALL SOIL PROCESSING AND PLACEMENT.

ROOF SHEATHING SPECIFICATION

FLAT	5/8" 32/16, APA RATED OSB OR PLYWOOD SHEATHING	0.131X2 1/2" RING SHANK. @ 6" O.C. EDGE AND FIELD. (4" O.C. WITHIN 4' OF ROOF EDGE)



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PLAN NAME
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 SSE No.
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ISSUE	DATE
PERMIT	04.24.23
REVISIONS	DATE

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FIELD ALTERATION
 CONTRACTOR SHALL CONTACT SABO STRUCTURAL ENGINEERING PRIOR TO MAKING ANY STRUCTURAL FIELD MODIFICATIONS WHICH MAY VARY FROM THE INTENT OF THE ORIGINAL CONSTRUCTION DOCUMENTS. ANY FIELD ALTERATIONS MADE PRIOR TO BEING APPROVED BY CHRISTOPHER SABOURIN MAY RESULT IN ADDITIONAL ENGINEERING OR SECTION FEES.

SCALING
 DO NOT SCALE DIMENSIONS FROM THESE DRAWINGS. IF A DIMENSION IS UNCLEAR REFER TO THE ARCHITECTURAL DRAWINGS OR CONTACT THE E.O.R.

DESIGN CRITERIA AND GENERAL NOTES

CAST-IN-PLACE CONCRETE:

TO BE MIXED AND PLACED IN ACCORDANCE WITH ACI 301, ACI 506 & 506.2. ALL REINFORCED CONCRETE TO HAVE 28 DAY COMPRESSIVE STRENGTHS AS FOLLOWS:

- FOUNDATIONS: $f'c = 3,000$ PSI
- SLAB ON GRADE: $f'c = 4,000$ PSI

ALL CONCRETE MIX DESIGN SUBMITTALS SHALL INCLUDE A WRITTEN DESCRIPTION INDICATING WHERE EACH PARTICULAR MIX IS TO BE PLACED WITHIN THE STRUCTURE.

UNLESS NOTED OTHERWISE, NORMAL WEIGHT CONCRETE (145 PCF) SHALL BE USED WITH 3/4" MAX. (ELEVATED) OR 1" MAX. (SLAB-ON-GRADE) COARSE AGGREGATE CONFORMING TO ASTM C 33.

PROTECT FRESHLY POURED CONCRETE FROM PREMATURE DRYING AND EXCESSIVE COLD AND HOT TEMPERATURES. START CURING AS SOON AS FREE WATER HAS DISAPPEARED FROM THE CONCRETE SURFACE AFTER PLACING AND FINISHING. ALL CURING PROCEDURES TO FOLLOW ACI 308.

PROTECT CONCRETE FROM DAMAGE AND REDUCED STRENGTH CAUSED BY FROST, FREEZING ACTIONS AND LOW TEMPERATURES IN COMPLIANCE WITH ACI 306.

PROTECT CONCRETE FROM DAMAGE AND REDUCED STRENGTH CAUSED BY HIGH TEMPERATURES IN COMPLIANCE WITH ACI 305. UNIFORMLY COOL WATER AND AGGREGATES BEFORE MIXING TO OBTAIN A CONCRETE MIXTURE TEMPERATURE OF NOT GREATER THAN 90 DEGREES FAHRENHEIT AT POINT OF PLACEMENT.

WHERE NEW CONCRETE IS TO BE POURED ONTO EXISTING CONCRETE, ROUGHEN AND CLEAN SURFACE OF THE ADJOINING AREA AND COAT WITH SIKADUR 32 HI-MOD OR AN APPROVED BONDING AGENT.

NO ADDITIONAL WATER SHALL BE ADDED TO THE CONCRETE AT THE JOB SITE.

SEE ARCHITECTURAL, ELECTRICAL, MECHANICAL, FIRE PROTECTION AND PLUMBING DRAWINGS FOR DRIPS, CHAMFERS, REGLETS, SLOTS, SLEEVES, RUSTICATIONS, INSERTS ANCHORS AND OTHER EMBEDDED ITEMS NOT NOTED ON STRUCTURAL DRAWINGS. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING & PLACING ALL EMBEDDED ITEMS SHOWN ON DRAWINGS & ADDITIONAL ITEMS NOTED IN THIS NOTE, AS REQUIRED BY OTHER TRADES.

ALL OPENINGS REQUIRED BY OTHER TRADES ARE TO BE COORDINATED W/ARCH. & MECH. DWGS., AND ARE SUBJECT TO STRUCTURAL ENGINEERING APPROVAL.

ALL OPENINGS IN CONCRETE SLABS SHALL BE LOCATED, SIZED AND REINFORCED (WITH THE EXCEPTION OF SMALL OPENINGS AND/OR SLEEVES OF A SIZE THAT WILL NOT DISPLACE OR INTERRUPT THE CONTINUITY OF THE REINFORCING) AS SHOWN ON RESPECTIVE FLOOR PLANS AND DETAILS. ALL OPENINGS IN SLAB LESS THAN 10" SHALL BE COORDINATED WITH ARCHITECTURAL & MEP DRAWINGS AND ARE SUBJECT TO STRUCTURAL ENGINEER'S APPROVAL. ANY ALTERATIONS REQUIRE APPROVAL OF THE STRUCTURAL ENGINEER. (SEE TYPICAL SLAB OPENING DETAIL).

DEFECTIVE AREA IN CONCRETE INCLUDING, BUT NOT LIMITED TO, HONEY-COMBING, SPALLS, AND CRACKS WITH WIDTHS EXCEEDING 0.01 INCH SHALL BE REPAIRED. EXTENT OF DEFECTIVE AREA TO BE DETERMINED BY THE STRUCTURAL ENGINEER.

CONCRETE REINFORCING:

REINFORCING STEEL AND ACCESSORIES SHALL BE DETAILED IN ACCORDANCE WITH ACI 315-99 (MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES) AND CRSI MSP2-01 (MANUAL OF STANDARD PRACTICE). (IBC 2009: CRSI MANUAL OF STANDARD PRACTICE, 28TH EDITION)

REINFORCING STEEL SHALL CONFORM TO ASTM A-615, GRADE 60 (UNLESS NOTED OTHERWISE).

UNLESS NOTED OTHERWISE, CONCRETE COVER FOR REINFORCING STEEL SHALL BE AS FOLLOWS:

1. CONCRETE CAST AGAINST EARTH ----- 3"
2. FORMED CONCRETE EXPOSED TO EARTH OR WEATHER ---- 2"
3. WALLS ----- 3/4"
4. COLUMNS/BEAMS ----- 1 1/2"
5. CONVENTIONAL REINFORCING ELEVATED SLABS -----1"

SUBMIT SHOP DRAWINGS WHICH ADEQUATELY DEPICT THE REINFORCING BAR SIZES AND PLACEMENT. WRITTEN DESCRIPTION OF REINFORCEMENT WITHOUT ADEQUATE SECTIONS, ELEVATIONS AND DETAILS IS NOT ACCEPTABLE.

ALL WELDED REINFORCING STEEL SHALL CONFORM TO ASTM A-706, GRADE 60, AND BE USED ONLY WITH PRIOR PERMISSION FROM THE STRUCTURAL ENGINEER.

ALL TENSION SPLICES, INCLUDING SPLICES FROM BARS LABELED CONTINUOUS, SHALL CONFORM TO ACI 318-05. SPLICES SHALL BE CLASS B IN ACCORDANCE WITH ACI 318, UNLESS NOTED OTHERWISE. REINFORCEMENT SHALL BE SPLICED ONLY AT LOCATIONS SHOWN OR NOTED IN THE STRUCTURAL DOCUMENTS, EXCEPT REINFORCEMENT MARKED "CONTINUOUS" CAN BE SPLICED AT LOCATIONS DETERMINED BY CONTRACTOR. SPLICES AT OTHER LOCATIONS SHALL BE APPROVED IN WRITING BY THE STRUCTURAL ENGINEER. (FBC 2010: ACI 318-08)

WELDED WIRE REINFORCEMENT SHALL CONFORM TO ASTM A-185 AND BE LAPPED TWO FULL PANELS, TIED ON EACH SIDE AND SHALL BE SUPPLIED IN FLAT SHEETS.

LONGITUDINAL REINFORCING BARS IN FOOTINGS SHALL BE PLACED CONTINUOUS AT CORNERS AND INTERSECTIONS.

FOR EVERY VERTICAL OR HORIZONTAL BAR DISCONTINUED BY AN OPENING, ONE BAR (MIN. OF 2 BARS) SHALL BE ADDED @ SIDE OF OPENING (HALF TO EACH SIDE - TYPICAL).

PROVIDE CORNER BARS AT ALL CONTINUOUS REINFORCING BARS AT ALL MEMBERS (FOUNDATIONS, WALLS, SLABS, BEAMS AND OTHER MEMBERS).

PROVIDE DOWELS FROM FOUNDATIONS, THE SAME SIZE & NUMBER AS THE VERTICAL WALL OR COLUMN REINFORCING, UNLESS NOTED OTHERWISE.

ALL DOWELS AND TERMINATING BARS SHALL HAVE A STANDARD 90 DEGREE HOOK.

ALL HORIZONTAL REINFORCING SHALL BE CONTINUOUS THROUGH CONTROL AND/OR CONSTRUCTION JOINTS AND AROUND CORNERS.

CONCRETE SLABS ON GRADE:

SHALL BE INSTALLED OVER MINIMUM 15 MIL POLYETHYLENE VAPOR RETARDER WITH JOINTS LAPPED 6" AND SEALED OVER CLEAN, COMPACTED EARTH OR FILL WITH APPROVED CHEMICAL SOIL TREATMENT FOR PREVENTION OF SUBTERRANEAN TERMITES.

SLAB CONSTRUCTION JOINTS SHALL BE USED IN PLACE OF CONTROL JOINTS WHERE NEEDED TO INTERRUPT A CONTINUOUS POUR. SLAB CONSTRUCTION JOINTS SHALL BE KEYED.

REFER TO ARCHITECTURAL/MECHANICAL FOR SLAB FINISHES, SLAB DEPRESSIONS, THICKENED SLABS (IN ADDITION TO THICKENED SLABS NOTED ON STRUCTURAL DRAWINGS), ELEVATIONS, AND ENCASED OR EMBEDDED ITEMS.

PLUMBING AND ELECTRICAL CONDUITS SHALL BE PLACED BELOW THE SLAB AND NOT WITHIN THE SLAB. VERTICAL PENETRATIONS ARE ALLOWED.

COLUMN BOX-OUTS SHALL BE USED TO ISOLATE AN ADEQUATE AREA AROUND COLUMN BASE PLATES TO PROVIDE FOR COLUMN PLACEMENT AND LEVELING. BOX-OUTS ARE TO BE CLEAN AND FREE OF DEBRIS TO TOP OF FOOTING PRIOR TO FILLING WITH CONCRETE. COLUMN BOX-OUTS ARE NOT REQUIRED IF STEEL COLUMNS ARE PLUMB AND FULLY GROUTED PRIOR TO PLACEMENT OF SLAB:

C.J. DENOTES CONCRETE SLAB "CONTROL JOINT" WHICH SHALL BE CUT INTO THE SLABS AT A DEPTH OF ¼ TIMES THE THICKNESS OF THE SLAB WITHIN 12 HOURS OF PLACING THE CONCRETE. MAXIMUM SPACING OF INTERIOR SLAB CONTROL JOINTS, UNLESS NOTED OTHERWISE, SHALL BE 16'-0" (MAX.) IN EACH DIRECTION.

PLACEMENT OF WELDED WIRE REINFORCEMENT IN SLAB, WHERE SPECIFIED, SHALL BE AT CONSISTENT DEPTH OF 1"-2" FROM T/SLAB. WELDED WIRE REINFORCEMENT SHALL BE PROPERLY CHAIRED ABOVE GRADE. OVERLAP EACH REINFORCING SHEET TWO FULL PANELS AND TIE CROSS WIRES ON EACH SIDE. WELDED WIRE REINFORCEMENT SHALL BE SUPPLIED IN FLAT SHEETS.

CONCRETE TESTING:

OWNER WILL EMPLOY AN INDEPENDENT TESTING LABORATORY TO PERFORM THE FOLLOWING TESTS AND SUBMIT TEST REPORTS ON CAST-IN-PLACE CONCRETE:

•ASTM C143 "STANDARD TEST METHOD FOR SLUMP OF PORTLAND CEMENT CONCRETE." SLUMP SHALL NOT EXCEED LIMIT INDICATED ON APPROVED MIX DESIGN, OR 6" (WHICHEVER IS SMALLER)

•ASTM C39 "STANDARD TEST METHOD FOR COMPRESSIVE STRENGTH OF CYLINDRICAL CONCRETE SPECIMENS." CYLINDERS SHALL BE TAKEN FOR EACH MIX DESIGN USED, AND FOR EVERY 50 CUBIC YARDS OF CONCRETE PLACED. TEST CYLINDERS AT THE FOLLOWING AGES:

CYLINDER AT 3 DAYS, 1 CYLINDER AT 7 DAYS, 2 CYLINDERS AT 28 DAYS -OR- HOLD ONE RESERVE CYLINDER TO BE TESTED AS REQUESTED BY THE ENGINEER. IF REQUIRED 28 DAY STRENGTH IS ACHIEVED, THE RESERVE CYLINDER MAY BE DISCARDED.

ALL CONCRETE TESTS INCLUDING AIR CONTENT, SLUMP, AND TEST CYLINDERS SHALL BE TAKEN AT THE POINT OF DISCHARGE AND FROM THE DISCHARGE END OF PUMP HOSE WHEN CONCRETE IS PUMPED.

POST-INSTALLED ANCHORS IN CONCRETE:

EXPANSION ANCHORS AS SHOWN ON CONTRACT DOCUMENTS SHALL BE HILTI KWIK BOLT 3 ANCHORS MANUFACTURED BY HILTI FASTENING SYSTEMS, WEDGE-ALL ANCHORS MANUFACTURED BY SIMPSON STRONGTIE COMPANY, POWER-STUD ANCHORS MANUFACTURED BY POWERS FASTENERS, TRUBOLT WEDGE ANCHORS MANUFACTURED BY ITW RAMSET/RED HEAD OR APPROVED EQUAL. INSTALL IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. MINIMUM EMBEDMENT SHALL BE PER MANUFACTURER'S REQUIREMENTS UNLESS NOTED OTHERWISE.

ADHESIVE ANCHORS AS SHOWN ON CONTRACT DOCUMENTS SHALL CONSIST OF AN ALL-THREAD GRADE 36 STEEL ANCHOR WITH HY150 MAX INJECTION ADHESIVE (HIT HY20 INJECTION ADHESIVE FOR MASONRY CONSTRUCTION WITH VOIDS) SUPPLIED BY HILTI FASTENING SYSTEMS, EPOXY-TIE SET EPOXY ADHESIVE SUPPLIED BY SIMPSON STRONGTIE COMPANY, EPON G5 EPOXY ADHESIVE SUPPLIED BY ITW RAMSET/RED HEAD OR APPROVED EQUAL. INSTALL IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. MINIMUM EMBEDMENT SHALL BE PER MANUFACTURER'S REQUIREMENTS UNLESS NOTED OTHERWISE.

POST-INSTALLED ANCHORS SHALL ONLY BE USED WHERE SPECIFIED ON THE DRAWINGS. CONTRACTOR SHALL OBTAIN APPROVAL FROM ENGINEER OF RECORD PRIOR TO USING POST INSTALLED ANCHORS FOR MISSING OR MISPLACED CAST-IN-PLACE ANCHORS. CARE SHALL BE GIVEN TO AVOID CONFLICTS WITH EXISTING REBAR. HOLES SHALL BE DRILLED AND CLEANED PER THE MANUFACTURER'S INSTRUCTIONS. ANCHORS SHALL BE INSTALLED PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS AT NOT LESS THAN MINIMUM EDGE DISTANCES AND/OR SPACING INDICATED IN THE MANUFACTURER'S LITERATURE. UNLESS SPECIFIED OTHERWISE, ANCHORS SHALL BE EMBEDDED IN THE APPROPRIATE SUBSTRATE WITH A MINIMUM EMBEDMENT OF 8 TIMES THE NOMINAL ANCHOR DIAMETER OR THE EMBEDMENT REQUIRED TO SUPPORT THE INTENDED LOAD. SUBSTITUTION REQUESTS, FOR PRODUCTS OTHER THAN THOSE SPECIFIED, SHALL BE SUBMITTED TO THE ENGINEER WITH CALCULATIONS THAT ARE PREPARED AND SEALED BY A REGISTERED PROFESSIONAL ENGINEER SHOWING THAT THE SUBSTITUTED PRODUCT WILL ACHIEVE AN EQUIVALENT CAPACITY USING THE APPROPRIATE DESIGN PROCEDURE REQUIRED BY THE BUILDING CODE.

ADHESIVE FOR REINFORCING DOWELS IN EXISTING CONCRETE SHALL BE EITHER THE HIT HY150 MAX INJECTION ADHESIVE SUPPLIED BY HILTI FASTENING SYSTEMS, EPOXY-TIE SET EPOXY ADHESIVE SUPPLIED BY SIMPSON STRONGTIE COMPANY, POWER-FAST EPOXY INJECTION GEL SUPPLIED BY POWERS FASTENERS, EPON G5 EPOXY ADHESIVE SUPPLIED BY ITW RAMSET/RED HEAD OR APPROVED EQUAL. MIN. EMBEDMENT LENGTH SHALL BE 12 BAR DIAMETERS, UNLESS NOTED OTHERWISE.

CONCRETE MASONRY:

ALL MASONRY DESIGN AND CONSTRUCTION SHALL CONFORM TO ACI 530-05/ASCE 5-05/TMS 402-05 AND ACI 530.1-05/ASCE 6-05/TMS 602-05. CMU SHALL BE IN ACCORDANCE WITH ASTM C90-75, HOLLOW LOAD-BEARING (CMU), TYPE 1, GRADE N-1, NORMAL WEIGHT, WITH A MINIMUM COMPRESSIVE STRENGTH OF 1900 PSI ($f'm=1500$ PSI). GROUT ALL CELLS CONTAINING VERTICAL REINFORCEMENT IN 5'-0" MAXIMUM LIFTS PROVIDE CLEANOUTS PER ACI 530.1-02 IN THE BOTTOM OF COURSE OF MASONRY WHEN THE WALL HEIGHT EXCEEDS 5'-0".

CONCRETE MASONRY UNITS SHALL BE NORMAL WEIGHT AND CONFORM TO ASTM C-90. LAY IN RUNNING BOND UNLESS NOTED OTHERWISE. F'M SHALL BE 1500 PSI (MIN. CMU COMPRESSIVE STRENGTH = 1900 PSI). COMPLETE TEST REPORTS THAT DOCUMENT MINIMUM COMPRESSIVE STRENGTH SHALL BE SUBMITTED TO THE BUILDING INSPECTOR.

GROUT SHALL BE IN ACCORDANCE WITH ASTM C476 WITH A MINIMUM OF 28 DAY COMPRESSIVE STRENGTH OF 3000 psi PER ASTM C1019. GROUT SHALL HAVE A MAXIMUM COURSE AGGREGATE SIZE OF ¾ PLACED AT AN 8" TO 11" SLUMP. MORTAR SHALL CONFORM TO ASTM C270 AND TYPE M OR S. TYPE N MORTAR MAY BE USED IN BRICK VENEER.

JOINT REINFORCING - TRUSS TYPE, 9 GAUGE SPACED VERTICALLY AT 16" UNLESS NOTED OTHERWISE AND CONFORM TO ASTM A-82.

VERTICAL REINFORCING IN CONCRETE MASONRY (AS REQUIRED) SHALL BE DOWELED INTO THE FOUNDATION AND EXTEND INTO THE BOND BEAM AT THE FLOOR OR ROOF. PROVIDE MIN. 4" X 4" OPENING AT U BLOCK FOR VERTICAL BAR.

PROVIDE REINFORCING IN CONCRETE MASONRY GROUTED CELLS AT EACH SIDE OF OPENING, EQUAL TO THE REINFORCING DISPLACED. MINIMUM REINFORCING SHALL BE (1) TYPICAL REINFORCEMENT BAR AT EACH SIDE UNLESS REINFORCED CONCRETE JAMB IS CALLED OUT.

PROVIDE JOINT REINFORCING AT 8" AT MASONRY BELOW GRADE, 2 ROWS AT 8" AT TOP AND BOTTOM OF OPENINGS, (EXTEND 24" EACH SIDE) AND 2 ROWS AT 8" AT BOND BEAMS. UNLESS NOTED OTHERWISE, WHERE MULTIPLE WYTHES OF CONCRETE MASONRY ARE CONSTRUCTED AND/OR WHERE ADDITIONAL WYTHES OF CONCRETE MASONRY ARE ADDED TO EXISTING WYTHES, EACH ADJACENT WYTHE SHALL BE TIED TO THE NEXT WYTHE WITH TYPICAL JOINT REINFORCING (NEW CONSTRUCTION FOR BOTH WYTHES) OR POST-INSTALLED TIES APPROVED BY ARCHITECT/ENGINEER (ADDITION TO EXISTING CONSTRUCTION) WITH SPACING/LOCATIONS MATCHING THE SPACING/LOCATIONS FOR TYPICAL JOINT REINFORCING DESCRIBED IN THE GENERAL NOTES.

CONCRETE MASONRY UNITS SHALL BE CUT BELOW CONCRETE BEAMS OR BOND BEAMS AS REQUIRED IN ORDER TO GET CONTINUOUS BEAM OR BOND BEAMS AT THE PROPER ELEVATION.

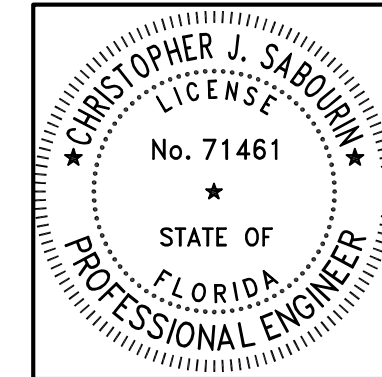
ALL CELLS BELOW GRADE AND SLAB ON GRADE SHALL BE GROUTED.

HORIZONTAL BEAMS, BOND BEAMS AND REINFORCING SHALL BE DISCONTINUOUS AT CONTROL JOINTS.

16" DEEP BOND BEAMS MAY BE CONSTRUCTED OF 8" U BLOCK BELOW AND 8" STANDARD BLOCK ABOVE WITH BREAK AWAY TOP PART OF WEB.

SEE ARCHITECTURAL DRAWINGS FOR LAYING MASONRY AND LOCATION OF OPENINGS. ARCHITECT SHALL BE RESPONSIBLE FOR THE DESIGN OF ALL FLASHING.

FACE SHELLS OF BED JOINTS SHALL BE FULLY MORTARED. WEBS SHALL BE FULLY MORTARED IN ALL COURSES OF PILASTERS, PIERS, COLUMNS, IN THE STARTING COURSE ON FOUNDATIONS WHERE ADJACENT CELLS/CAVITIES ARE TO BE GROUTED, & WHERE OTHERWISE NOTED.



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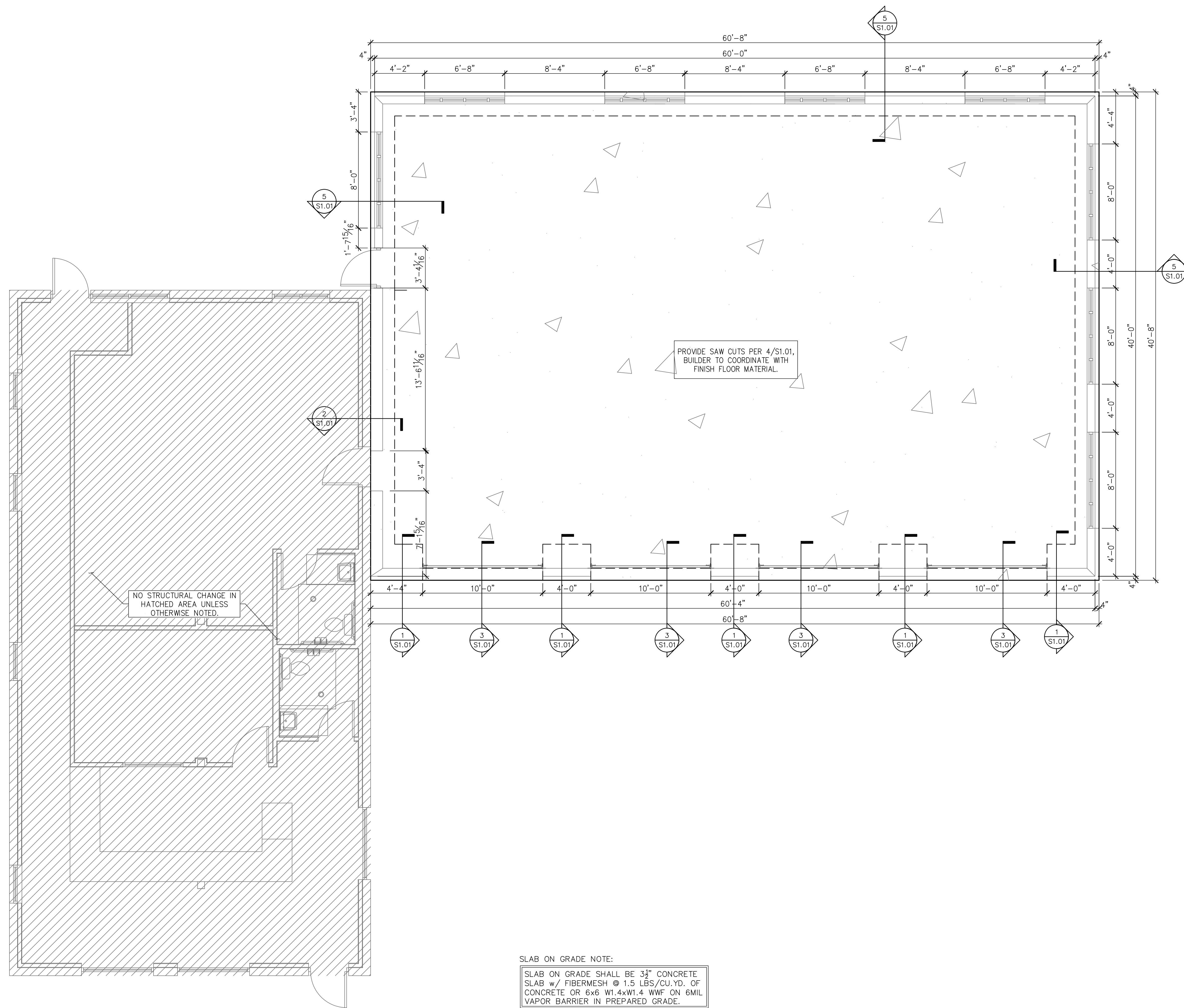
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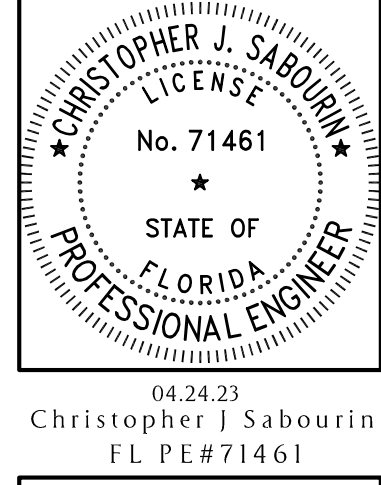
DESIGN
CRITERIA AND
GENERAL
NOTES



SYMBOLS LEGEND	
---	DESIGNATES FOOTING LINE
---	DESIGNATES SAWOUT LINE
XXXX	STEMWALL FOOTING
////	DESIGNATES SLAB RECESS

FOUNDATION NOTES:

- THIS FOUNDATION PLAN ONLY CONVEYS STRUCTURAL INFORMATION RELATED TO THE FOUNDATION, FOR GENERAL FEATURES, DIMENSIONS, CONDUITS, ELECTRICAL EMBEDS, STEP HEIGHTS, ETC. SEE ARCH PLAN, ARCH PLAN SHOWN HEREIN FOR REFERENCE ONLY.
- FOOTINGS AND FOUNDATIONS SHALL BE IN ACCORDANCE WITH LOCAL BUILDING CODES.
- SOIL COMPACTION AND FILL SHALL BE COMPACTED TO A MIN OF 95% PROCTOR IN ACCORDANCE WITH ASTM D 1557.
- PROVIDE MIN 3" CLEAR COVER BETWEEN SOIL AND FOOTING REINFORCING.



04.24.23
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PLAN NAME
JOHN'S AUTOMOTIVE
SSE No.
23-0203

ISSUE	DATE
PERMIT	04.24.23
REVISIONS	DATE

STRUCTURAL ENGINEERING FOR
JOHN'S AUTOMOTIVE AT
5748 ARLINGTON RD
JACKSONVILLE, FL 32211

FIELD ALTERATION
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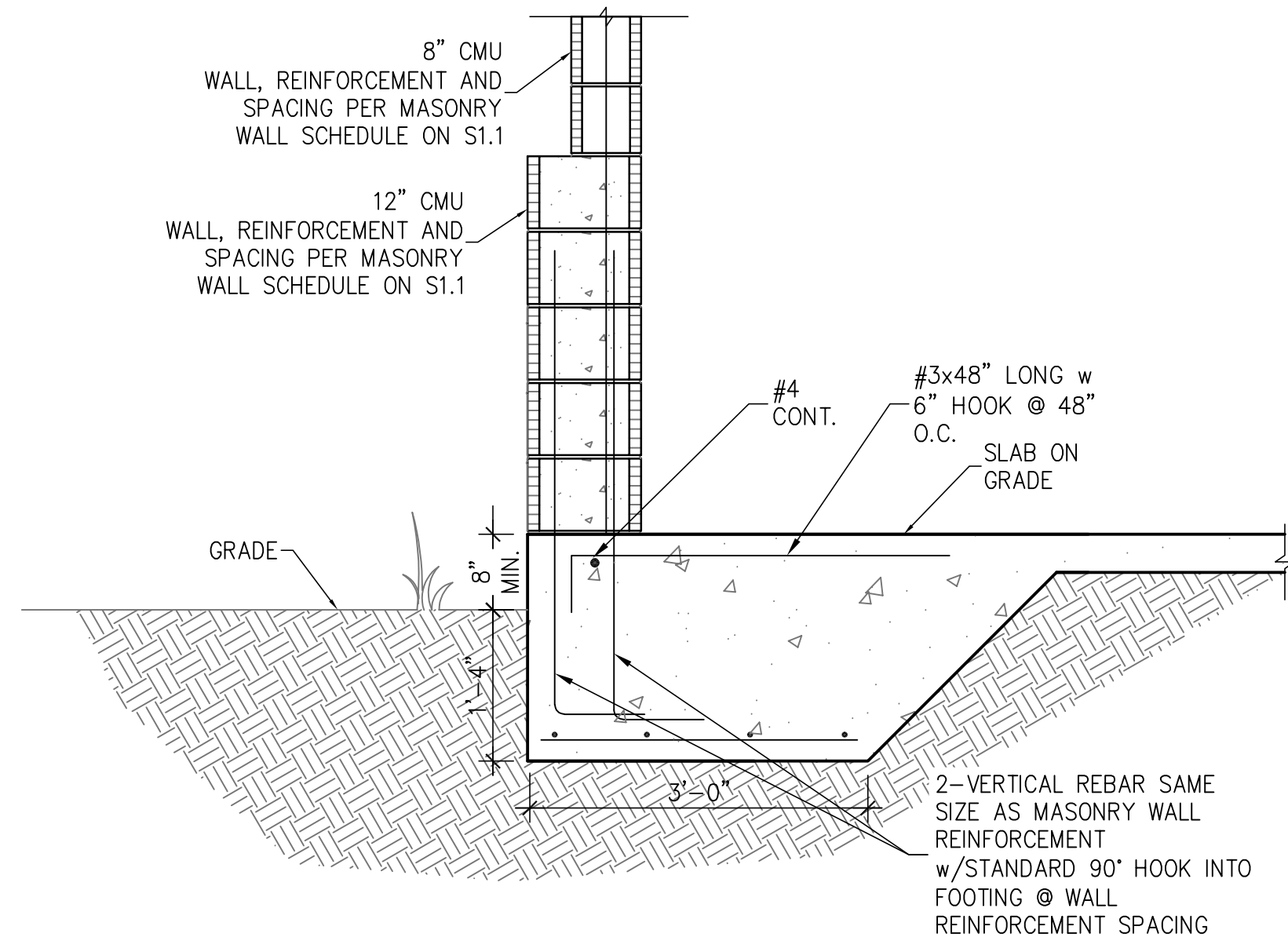
SCALING
DO NOT SCALE DIMENSIONS FROM THESE DRAWINGS. IF A DIMENSION IS UNCLEAR REFER TO THE ARCHITECTURAL DRAWINGS OR CONTACT THE E.O.R.

SLAB ON GRADE NOTE:
SLAB ON GRADE SHALL BE 3 1/2" CONCRETE SLAB w/ FIBERMESH @ 1.5 LBS/CU.YD. OF CONCRETE OR 6x6 W1.4xW1.4 WWF ON 6MIL VAPOR BARRIER IN PREPARED GRADE.

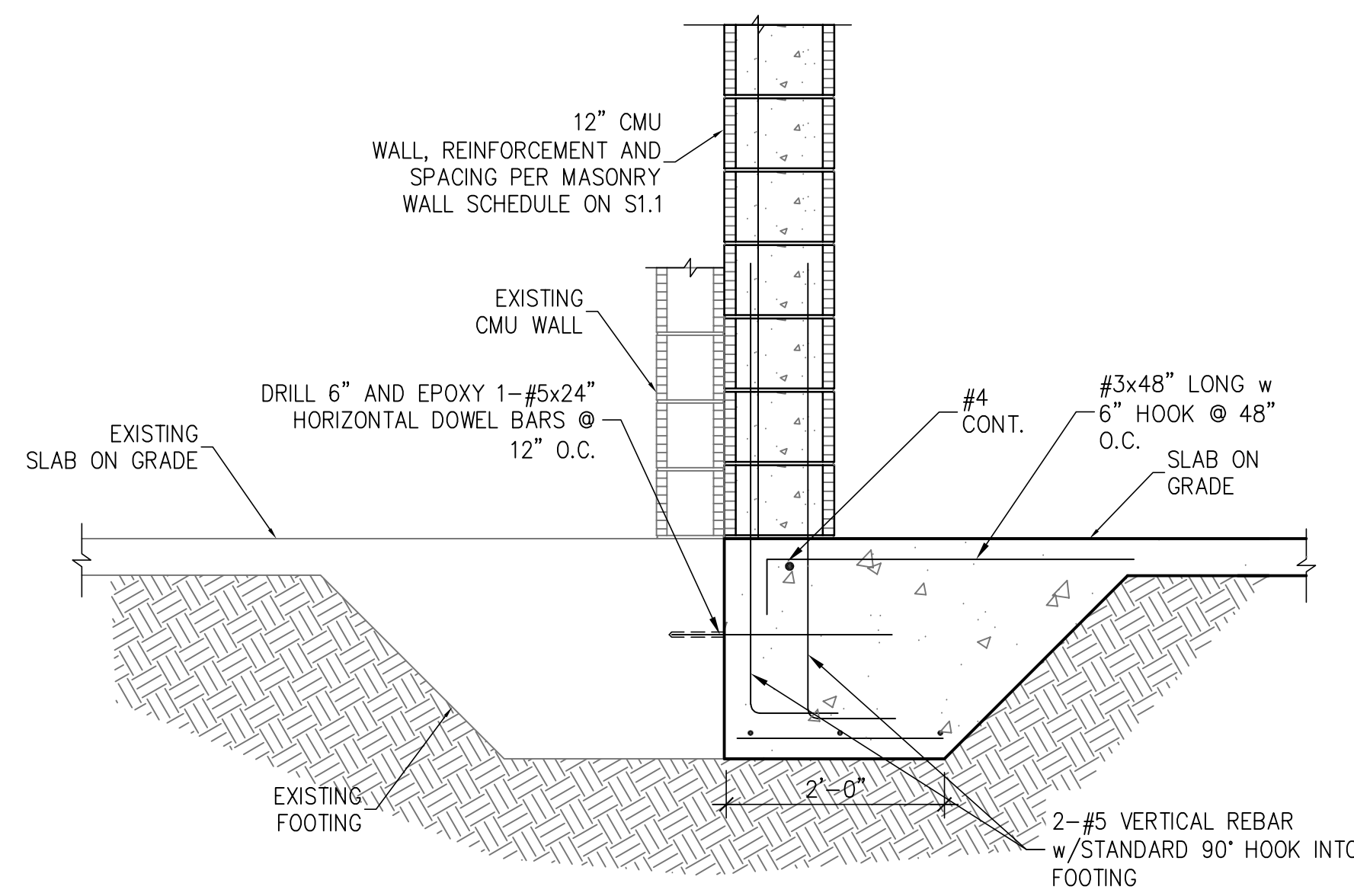
FOUNDATION PLAN
SCALE: 1/4" = 1'-0"

FOUNDATION
PLAN

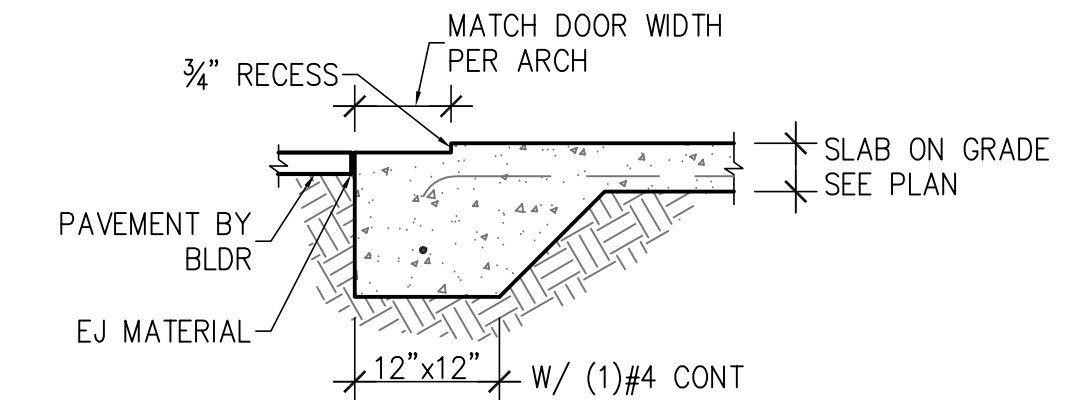
SHEET
S1.0
SHEET 3 OF 11



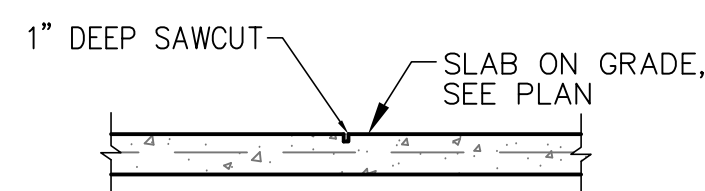
1 MONOLITHIC EDGE FOOTING
S1.01



2 NEW FOOTING TO EXISTING FOOTING
S1.01

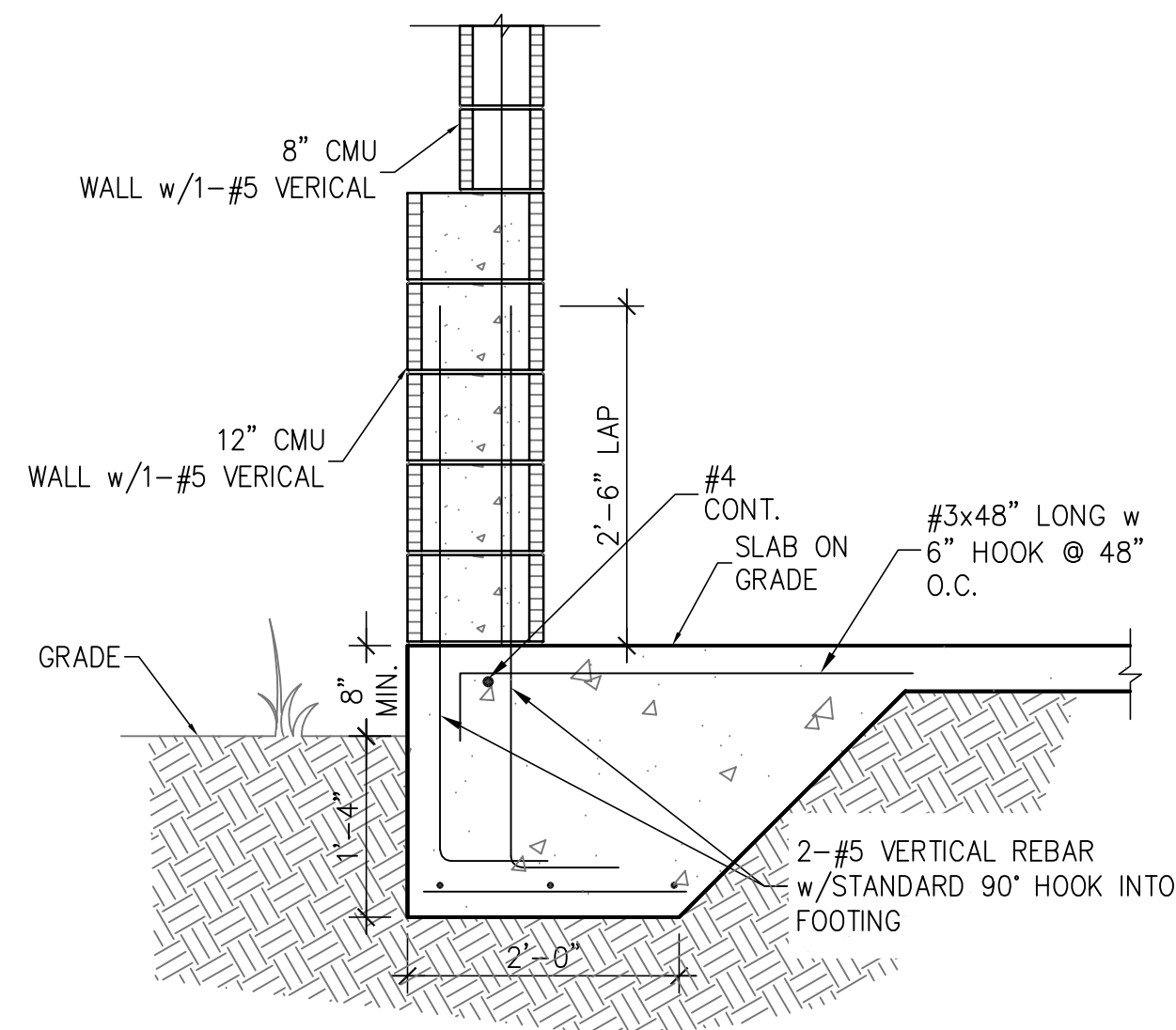


3 THICKENED SLAB AT GARAGE
S1.01

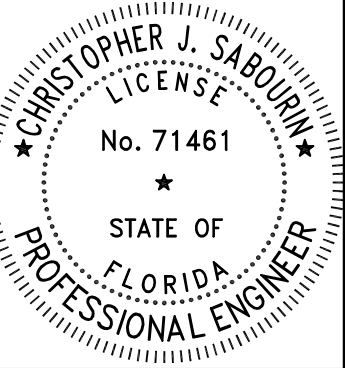


- NOTES:
- 1) PROVIDE SAWCUTS TO CREATE APPROXIMATE 16' X 16' MAX. SQ.
 - 2) IT IS RECOMMENDED TO SAWCUT CONCRETE SLAB WITHIN 4 TO 12 HOURS OF CONCRETE PLACEMENT PER ACI308.

4 SAW CUT DETAIL
S1.01



5 NEW FOOTING TO EXISTING FOOTING
S1.01



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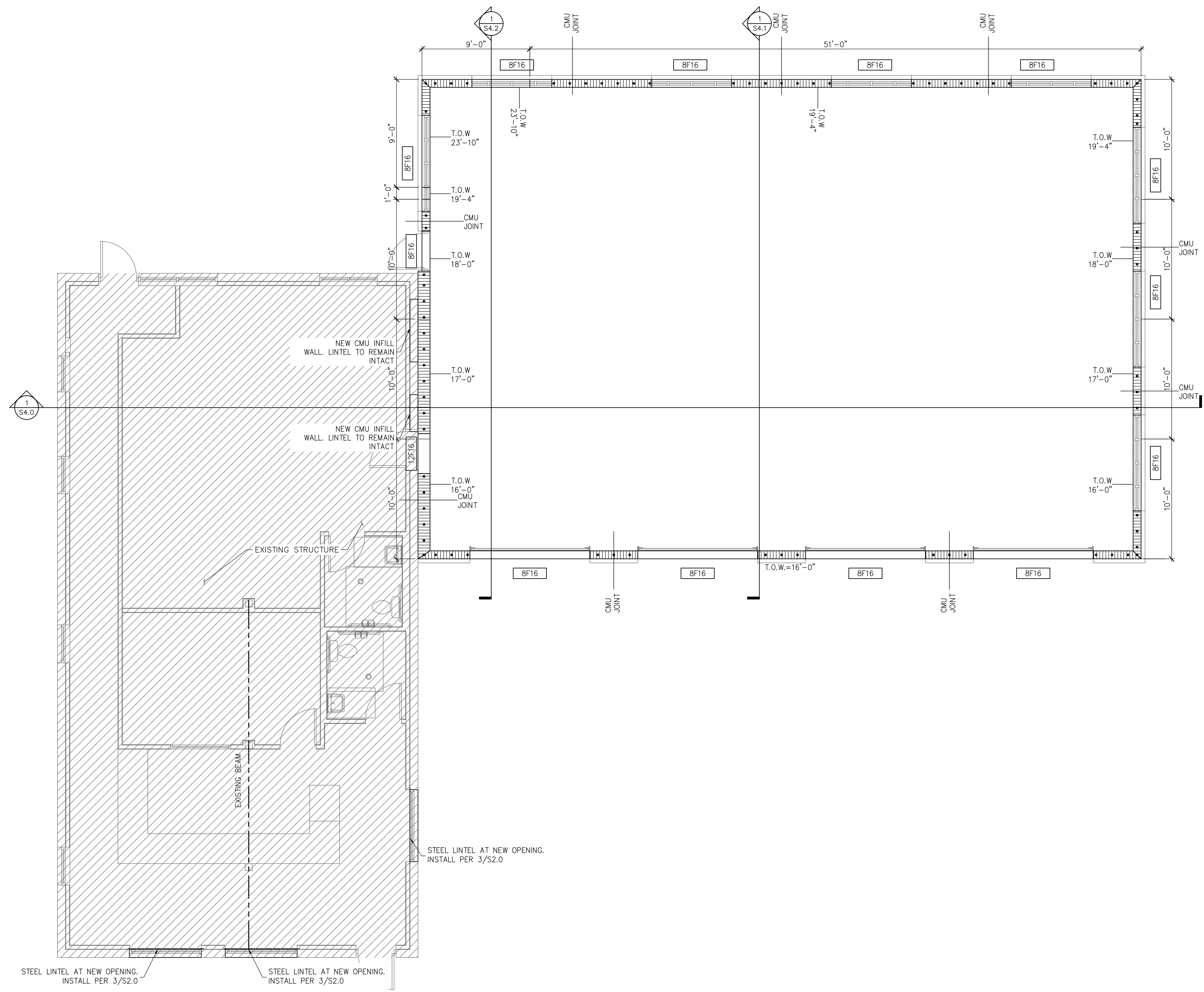
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FOUNDATION
DETAILS

SHEET
S1.01
SHEET 4 OF 11



SYMBOLS LEGEND

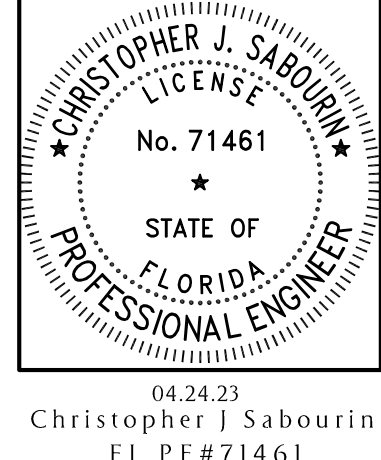
- DESIGNATES OSB SHEARWALL. THE HIDDEN LINE DESIGNATES SIDE OF WALL THE OSB SHEATHING TO BE APPLIED. 3/12 DESIGNATES 8@ 3" O.C. EDGE & 12" O.C. "IN THE FIELD"
- DESIGNATES THE HEADER SIZE, NUMBER OF PLYS & JACK/KING STUDS NEEDED FOR SUPPORT HEADER. SEE DETAIL 4/S2.0
- BEAM OR TRUSS, SEE PLAN
- INTERIOR LOAD BEARING WALL (NO UPLIFT)
- DESIGNATES CMU WALL SEE S2.0 & S3.0

- GENERAL NOTES**
- SEE DETAIL S2.0 FOR WALL FRAMING DETAIL. SEE WALL STUD SCHEDULE THIS SHEET FOR STUD SIZES AND SPACING. AT ORDERS AND BEAMS, PROVIDE STUDS BELOW TO MATCH BEAM/ORDER PILES.
 - SEE SHEET S0.0 FOR ROOF AND FLOOR SHEATHING SPECIFICATIONS.
 - WHERE FRAMING MEMBERS CONSIST OF MULTIPLE PLYS (BEAMS, HEADER, AND STUDS) FASTEN PLYS TOGETHER PER DETAIL 4/S2.0

- MASONRY NOTES**
- MASONRY WALLS SHALL BE REINFORCE WITH PER TABLE BELOW. AT CORNERS, JAMBS, AND WALL INTERSECTIONS. SEE 2/S3.0 FOR ADDITIONAL REINFORCEMENT AT JAMBS OVER 4'-4"
 - PROVIDE HORIZONTAL JOINT REINFORCING AT 16" O.C.
 - GROUT ALL CELLS CONTAINING VERTICAL REINFORCEMENT AND ALL CELLS BELOW GRADE. SEE S3.0 FOR GROUTING NOTES.
 - WALL COURSING SHALL BE RUNNING BONDS, STACK BOND SHALL NOT BE USED
 - AT WALL CORNERS AND INTERSECTIONS, WALL COURSING SHALL INTERLOCK, EVERY OTHER COARSE.
 - SEE S3.0 FOR MASONRY REINFORCING DETAILS
 - WHERE NON-PRESSURE TREATED WOOD BEARS ON CMU PROVIDE 2-LAYERS OF 30 LBS. ROOFING PAPER BETWEEN WOOD & CMU WALL.
 - #/# DENOTES LINTELS OVER OPENINGS PER DETAIL 4/S3.0

MASONRY WALL REINFORCING SCHEDULE

WIDTH	T.O.W.	REBAR	SPACING
8" /12" CMU	16'-0"	(1)#5	24" O.C.
8" /12" CMU	17'-0"	(1)#5	16" O.C.
8" /12" CMU	18'-0"	(1)#5	16" O.C.
8" CMU	19'-4"	(1)#5	16" O.C.
8" CMU	23'-10"	(1)#6	16" O.C.



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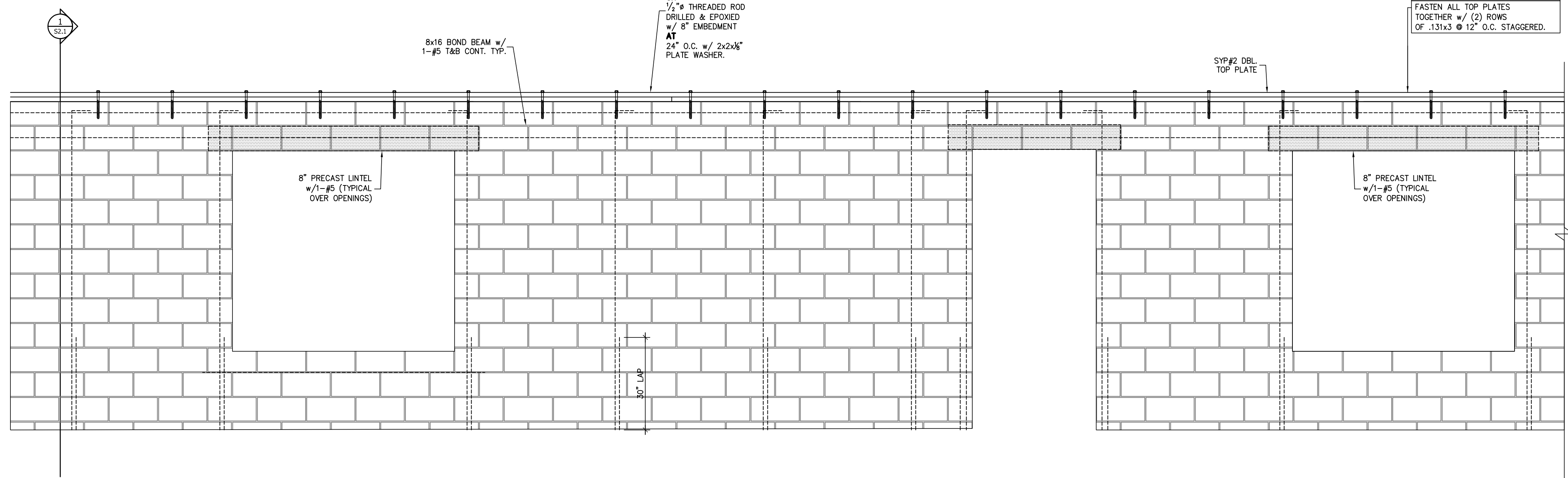
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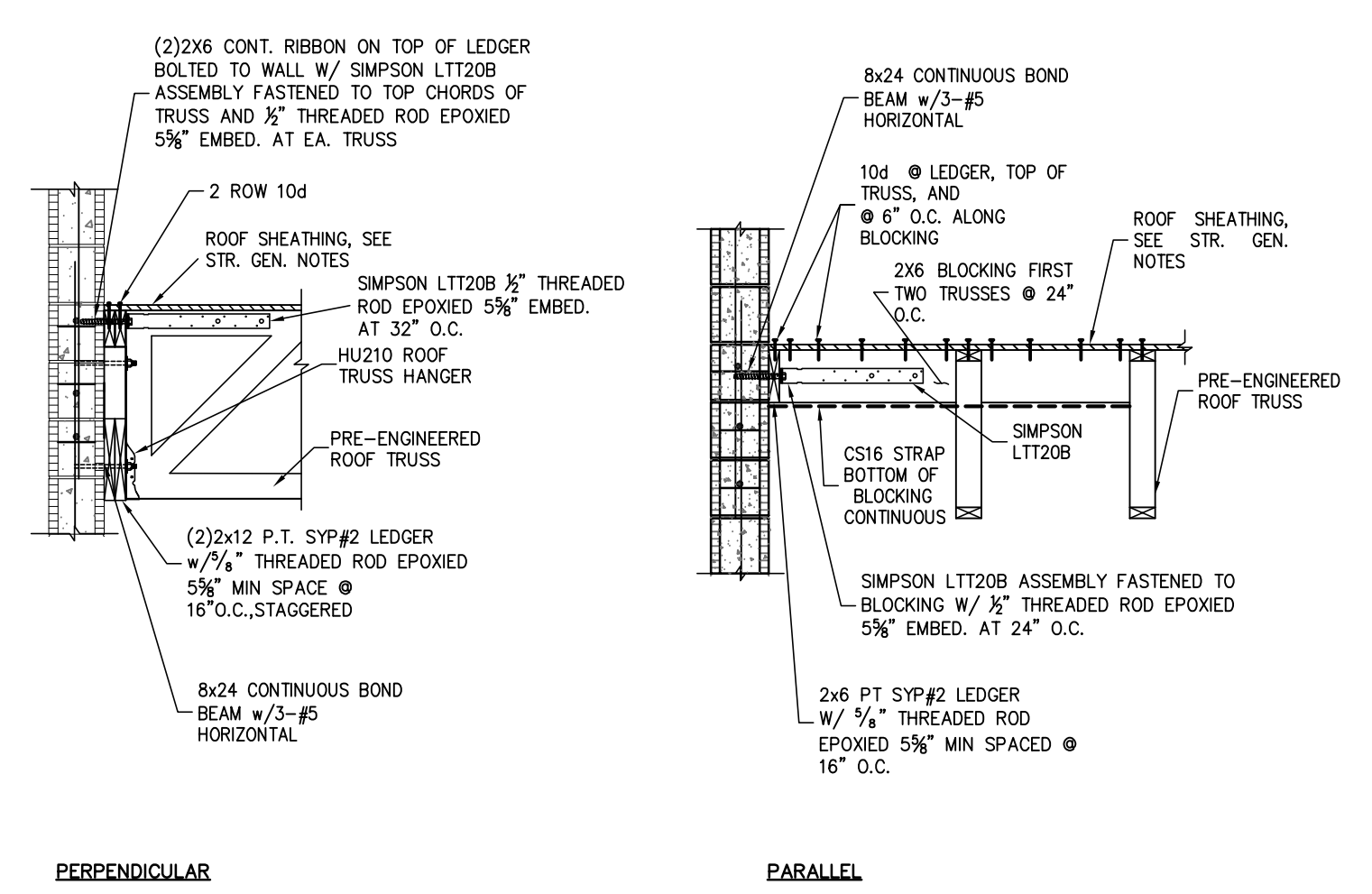
FIRST LEVEL WALL FRAMING PLAN

T.O.W. DENOTES TOP OF MASONRY WALL & WOOD PLATES
FIRST LEVEL WALL FRAMING PLAN
 SCALE: 1/4" = 1'-0"

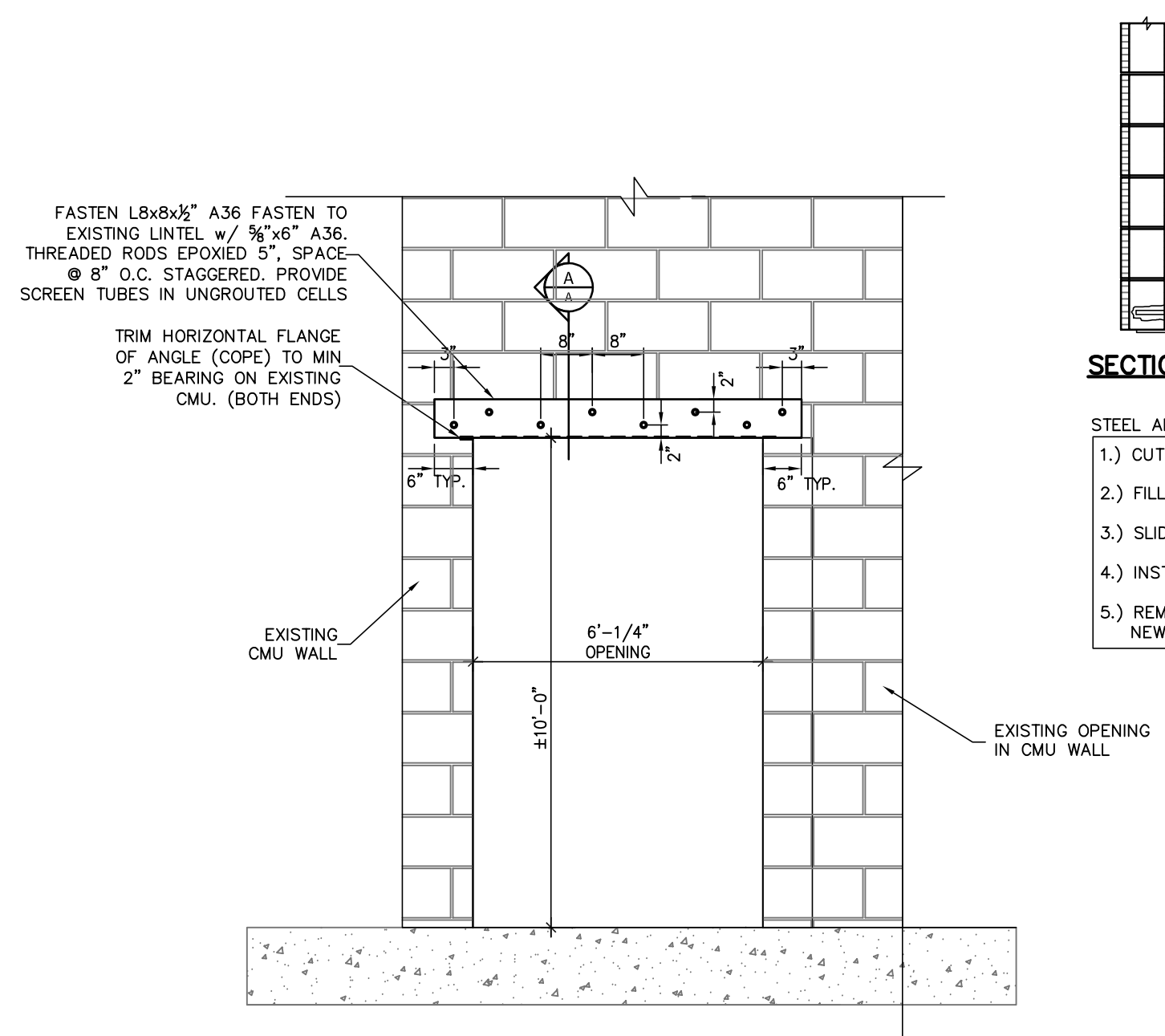


- MASONRY NOTES:**
- MASONRY WALLS SHALL BE REINFORCE WITH 1-#5 VERTICAL @ 48" O.C. AT CORNERS, JAMBS, AND WALL INTERSECTIONS. SEE 2/S3.0 FOR ADDITIONAL REINFORCEMENT AT JAMBS OVER 4'-4"
 - PROVIDE HORIZONTAL JOINT REINFORCING AT 16" O.C.
 - GROUT ALL CELLS CONTAINING VERTICAL REINFORCEMENT AND ALL CELLS BELOW GRADE. SEE S3.0 FOR GROUTING NOTES.
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 - WHERE NON-PRESSURE TREATED WOOD BEARS ON CMU PROVIDE 2-LAYERS OF 30 LBS. ROOFING PAPER BETWEEN WOOD & CMU WALL.

1
S2.0 TYPICAL EXTERIOR WALL ELEVATION

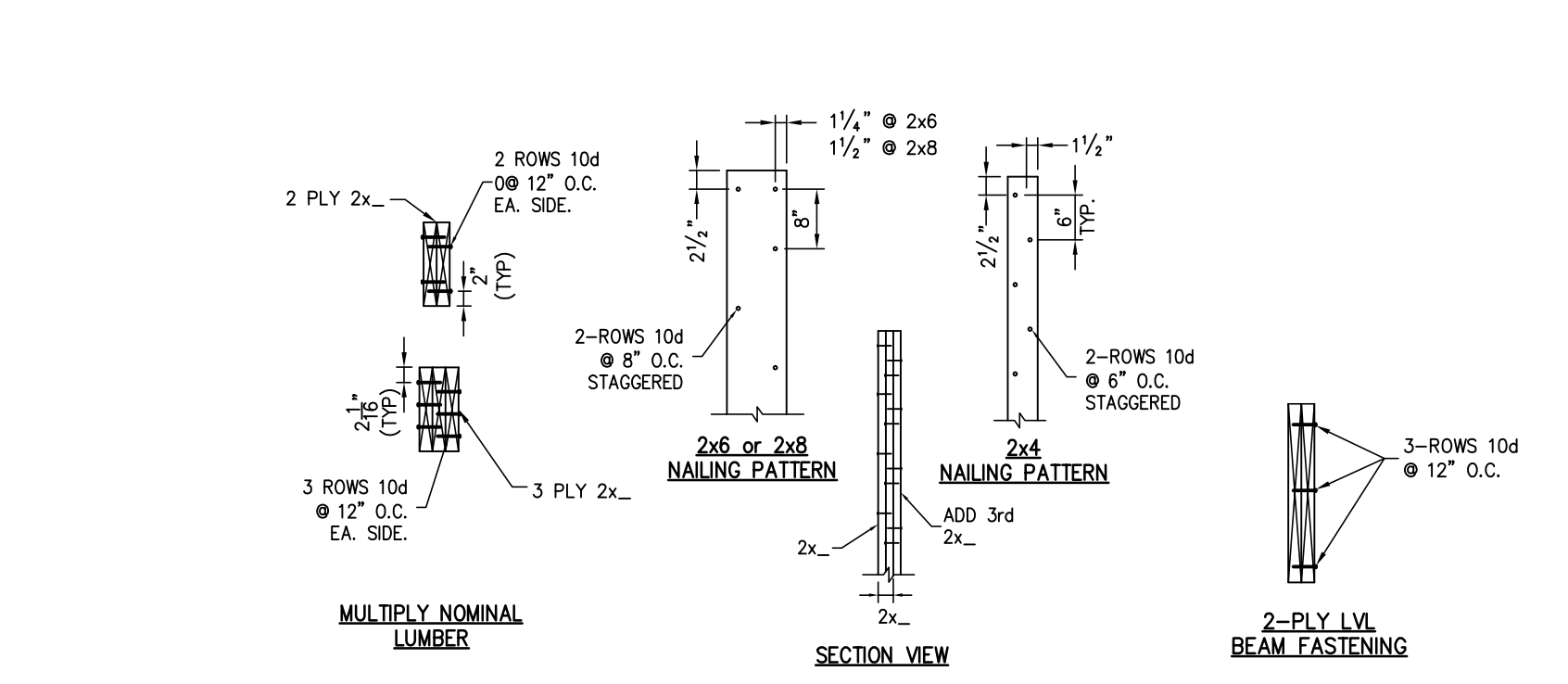


2
S2.0 ROOF LEDGER CONNECTION

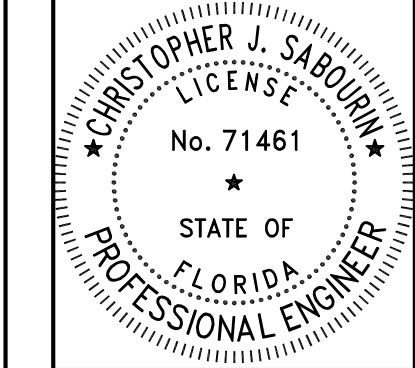


3
S2.0 NEW OPENING IN EXISTING CMU WALL

- STEEL ANGLE INSTALLATION SEQUENCE**
- CUT 1/2" GROOVE IN EXISTING CMU WALL
 - FILL JAMB CELLS WITH MORTAR
 - SLIDE IN STEEL ANGLE
 - INSTALL BOLTS
 - REMOVE WALL BELOW ANGLE FOR NEW OPENING



4
S2.0 BUILT - UP MEMBER FASTENING
SCALE: N.T.S.



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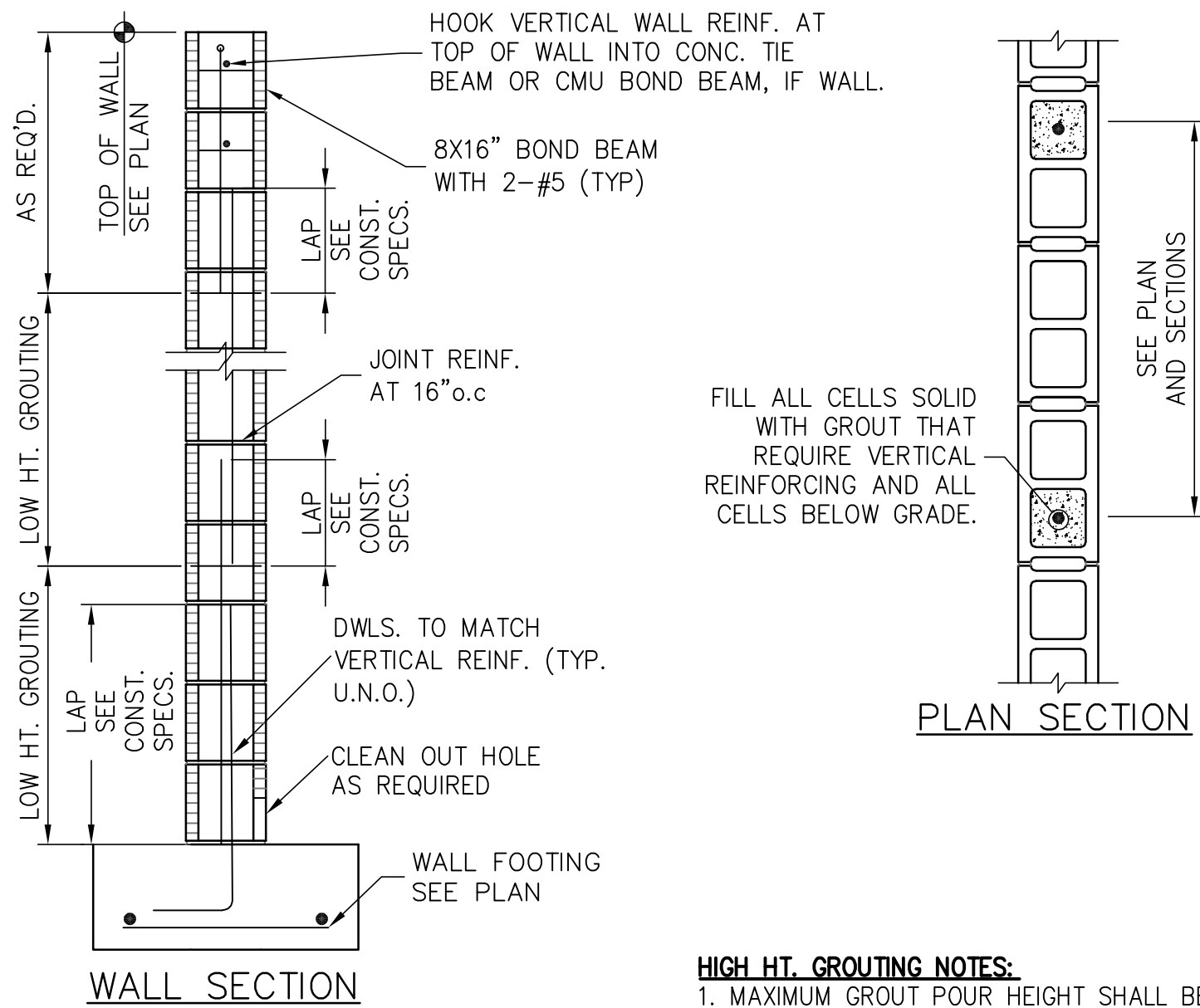
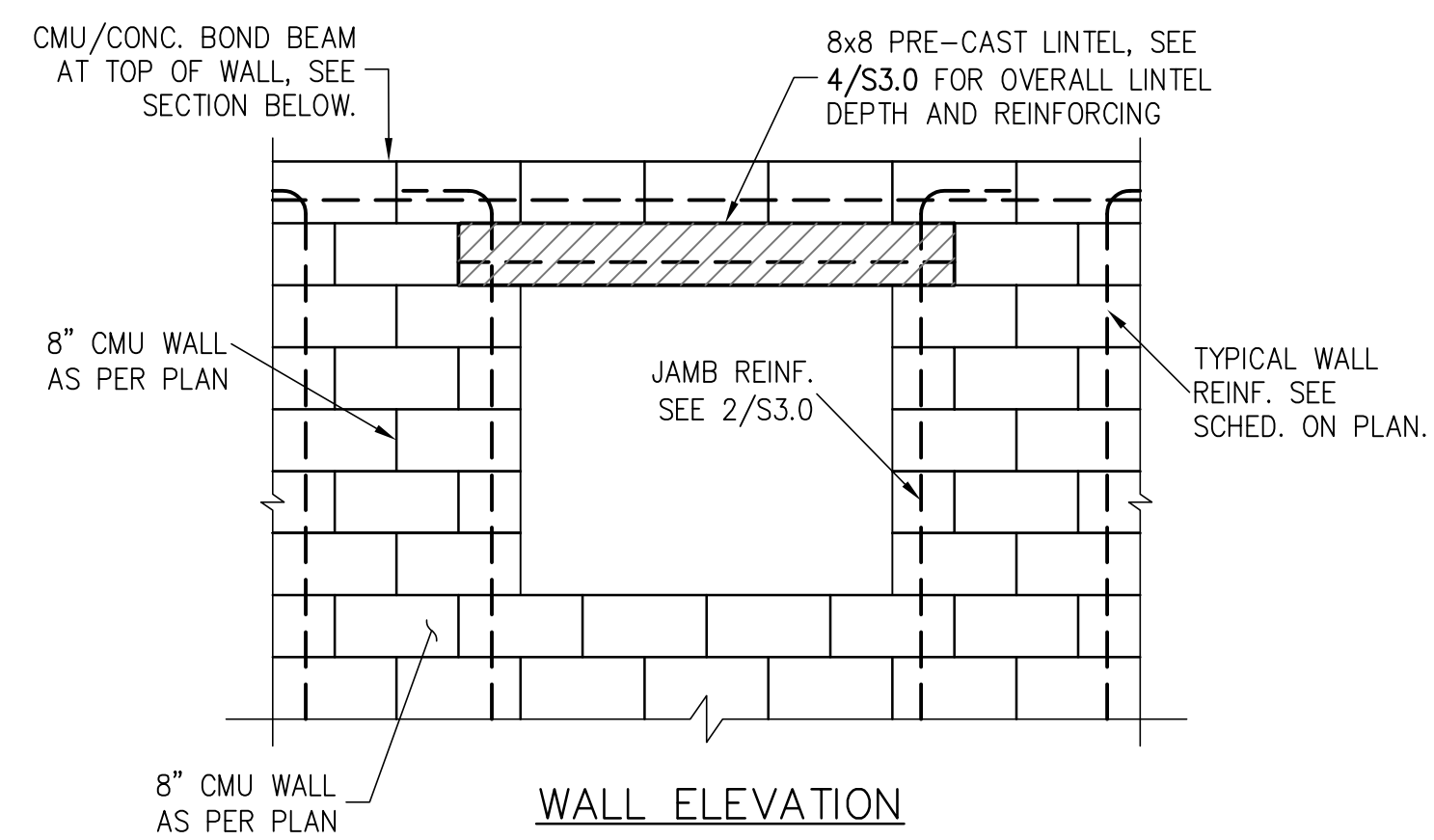
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TYPICAL
FRAMING
DETAILS



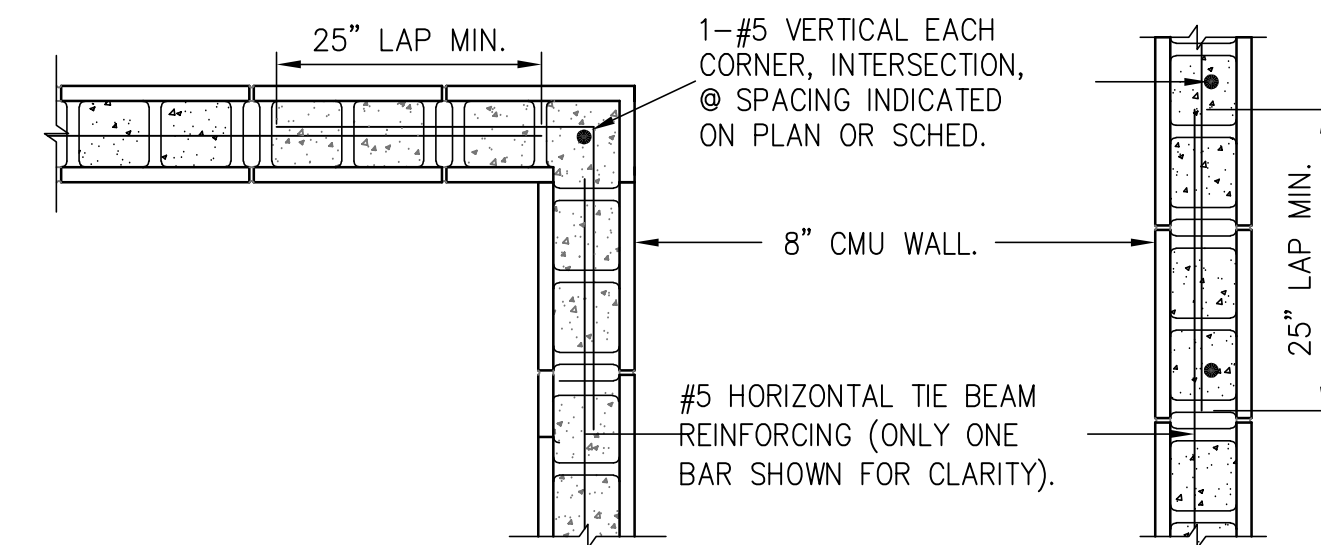
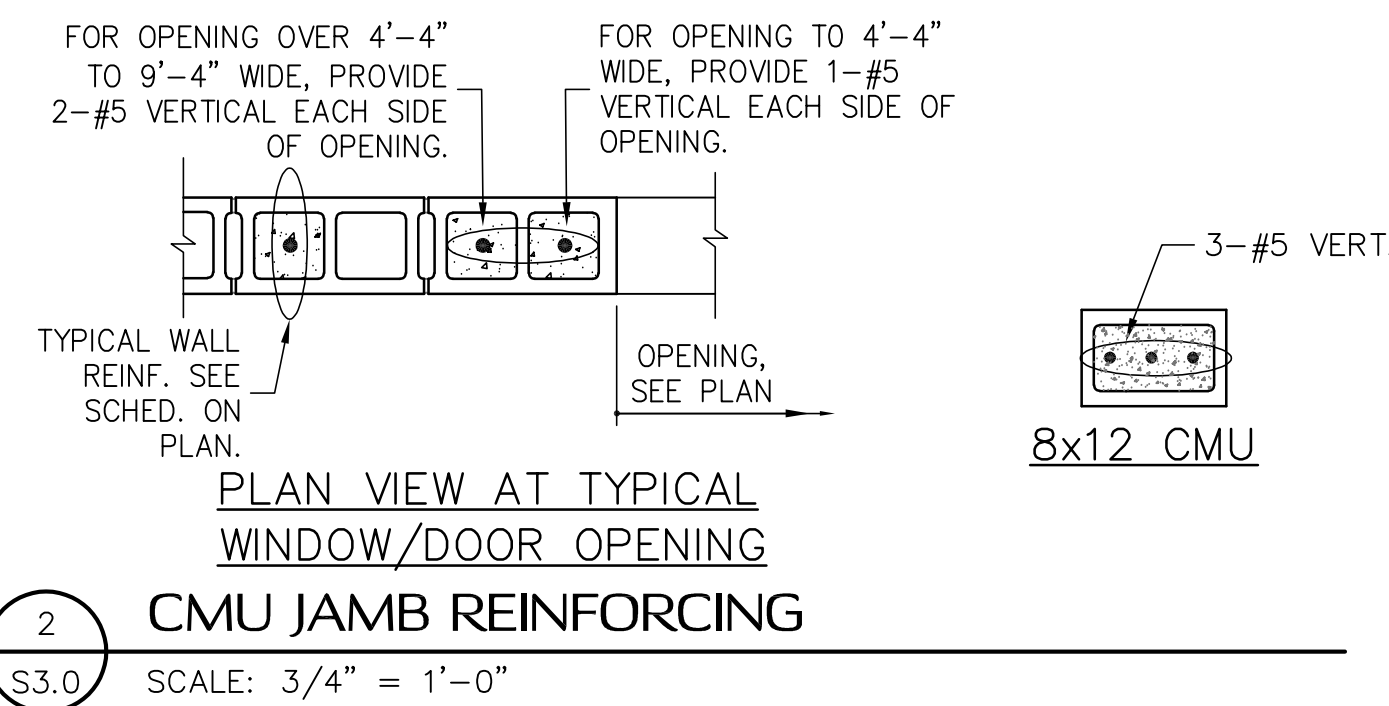
HIGH HT. GROUTING NOTES:

1. MAXIMUM GROUT POUR HEIGHT SHALL BE 12'-0".
2. IF HIGH LIFT GROUTING IS USED, REINF. SHALL BE FULL HEIGHT AND A CLEANOUT HOLE IS REQ'D AT CELLS WITH REBAR.
3. GROUT SHALL BE PLACED IN 5' LIFTS TO PREVENT BLOWOUTS.
4. SEE SPECIFICATIONS AND STRUCTURAL NOTES FOR GROUT TYPE AND GROUTED CELL SIZE.

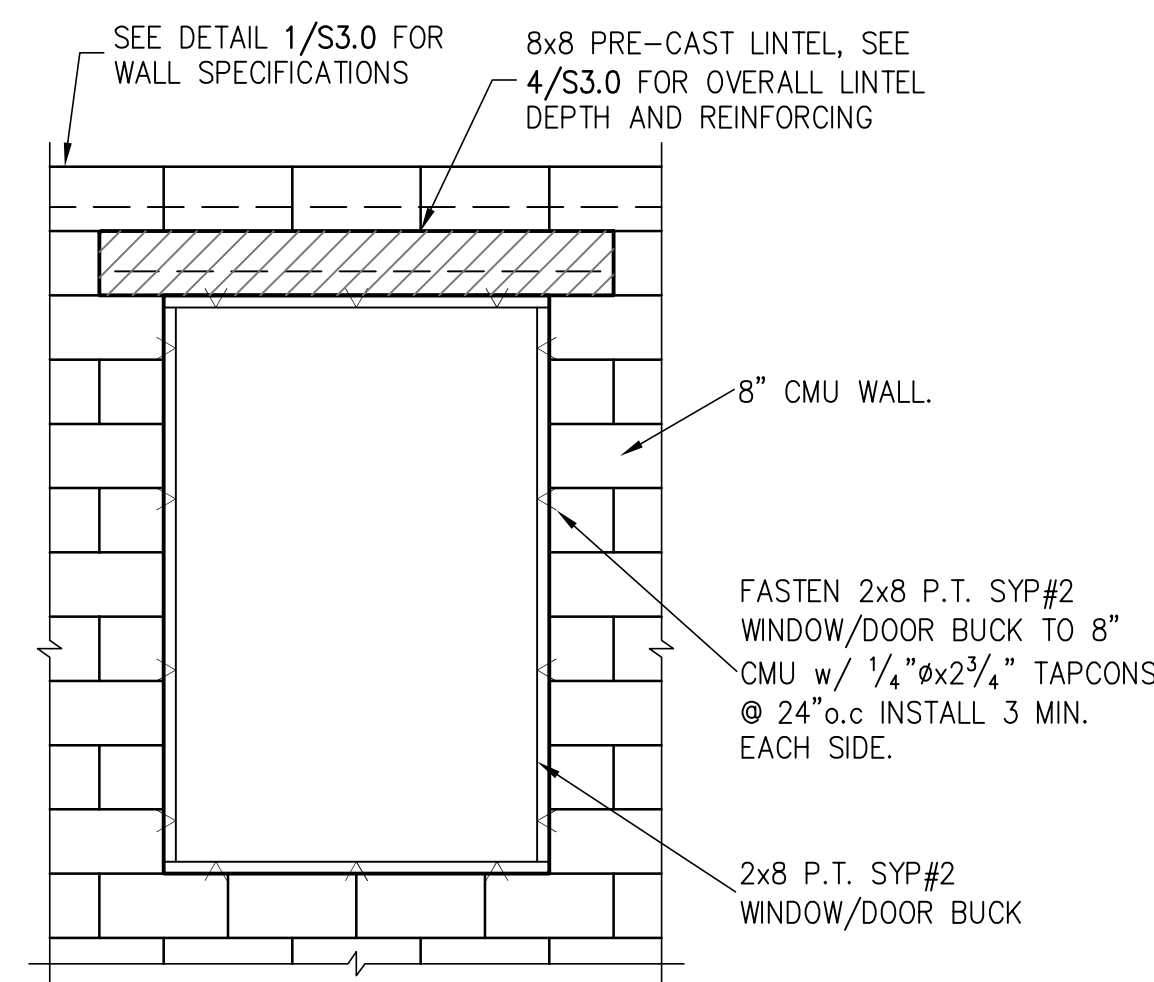
LOW HT. GROUTING NOTES:

1. USE 5'-0" GROUT POUR HEIGHT FOR BAR SIZES #3 THRU #5.
2. SEE SPECIFICATIONS AND STRUCTURAL NOTES FOR GROUT TYPE AND GROUTED CELL SIZE.
3. GROUT SHALL BE PLACED IN 5' LIFTS TO PREVENT BLOWOUTS.
4. SEE SPECIFICATIONS AND STRUCTURAL NOTES FOR GROUT TYPE AND GROUTED CELL SIZE.

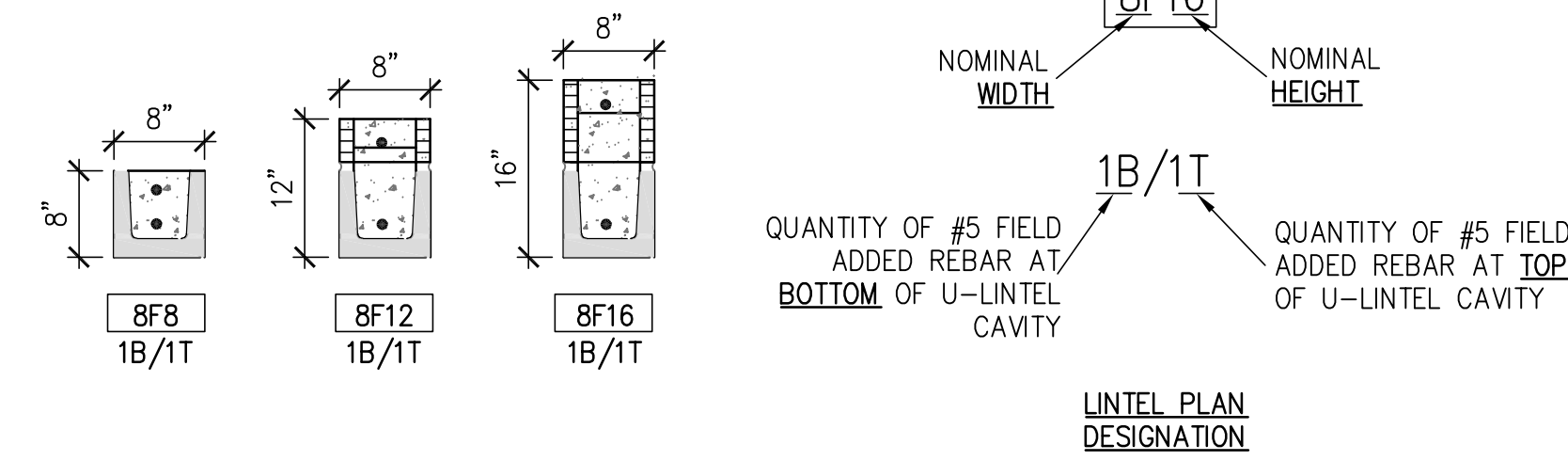
1 TYPICAL WALL REINFORCEMENT
S3.0 SCALE: N.T.S.



3 TYPICAL HORIZONTAL/CORNER SPLICE
S3.0 SCALE: 3/4" = 1'-0"



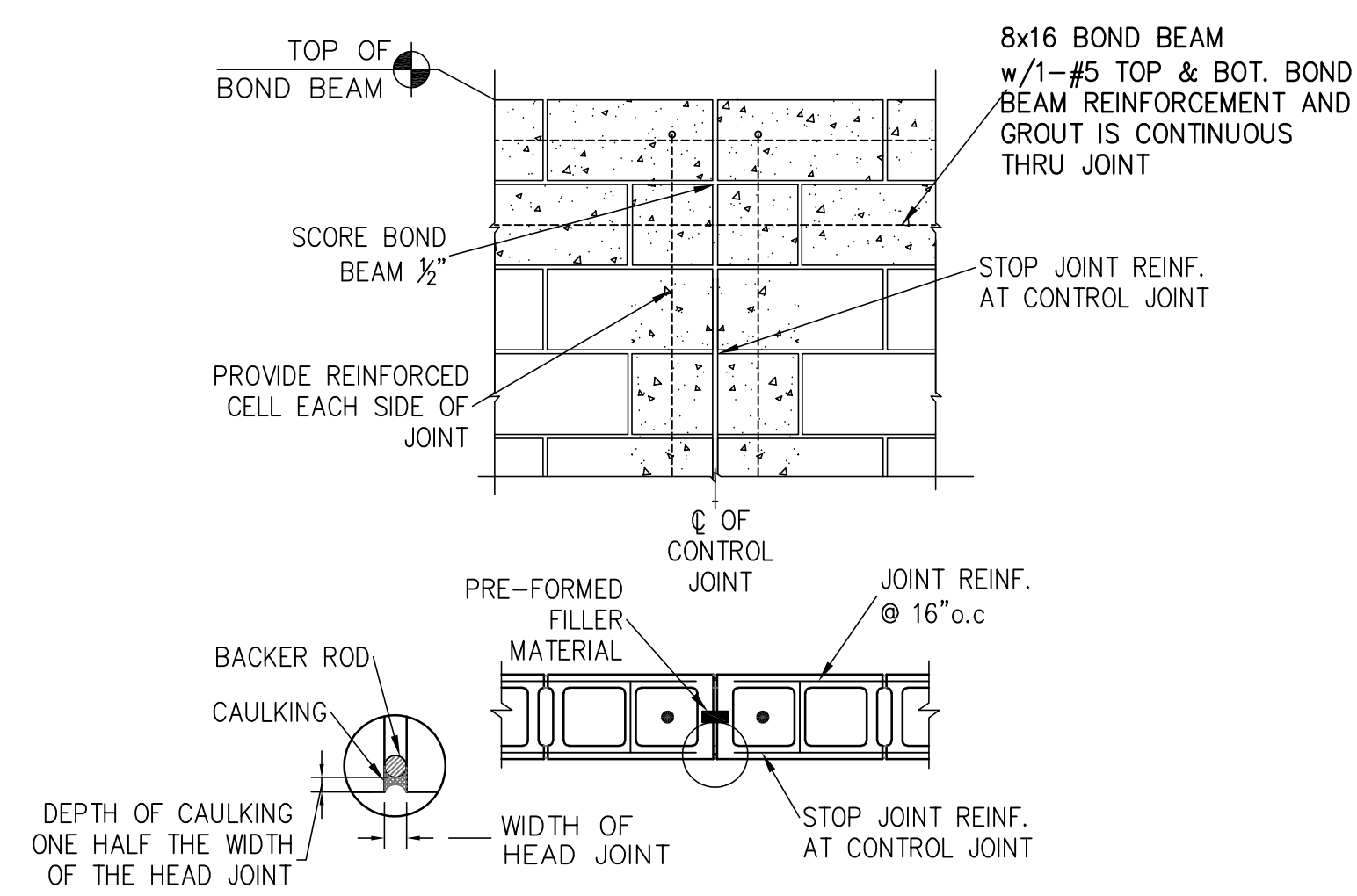
6 STRUCTURAL WINDOW/DOOR BUCK
SEE 1/S3.0 FOR INFORMATION NOT SHOWN.



NOTES:

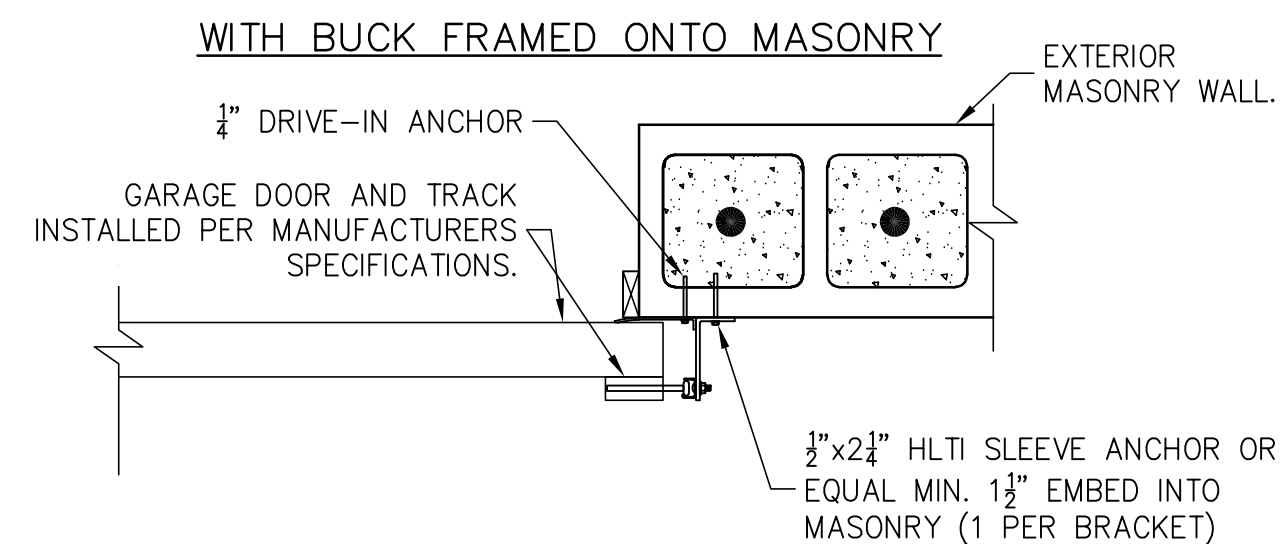
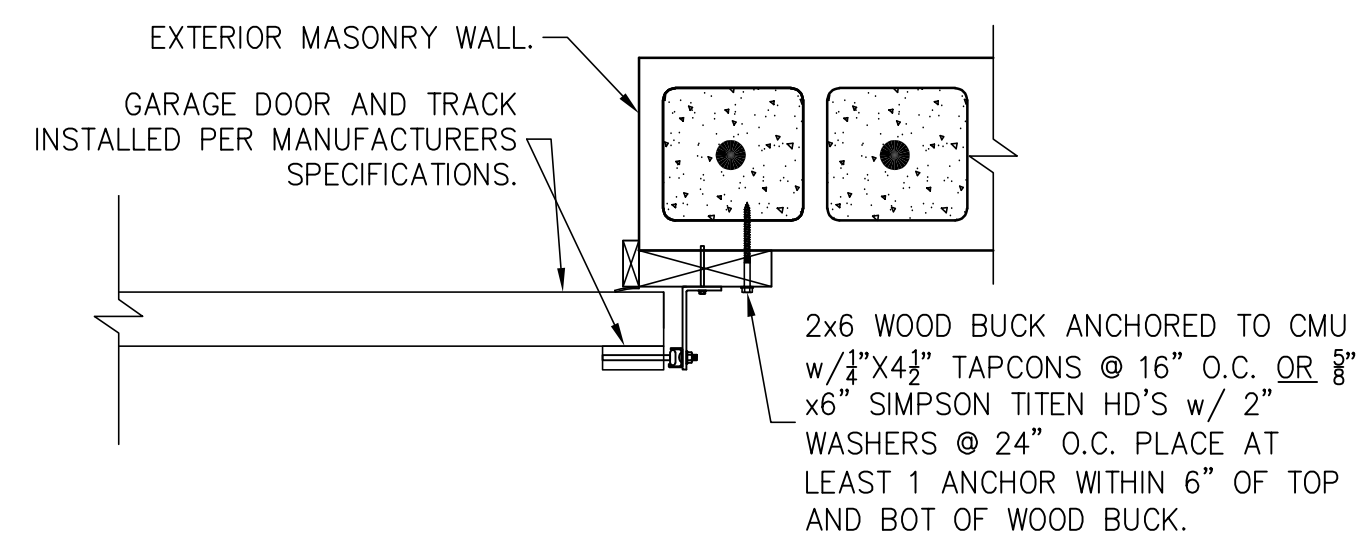
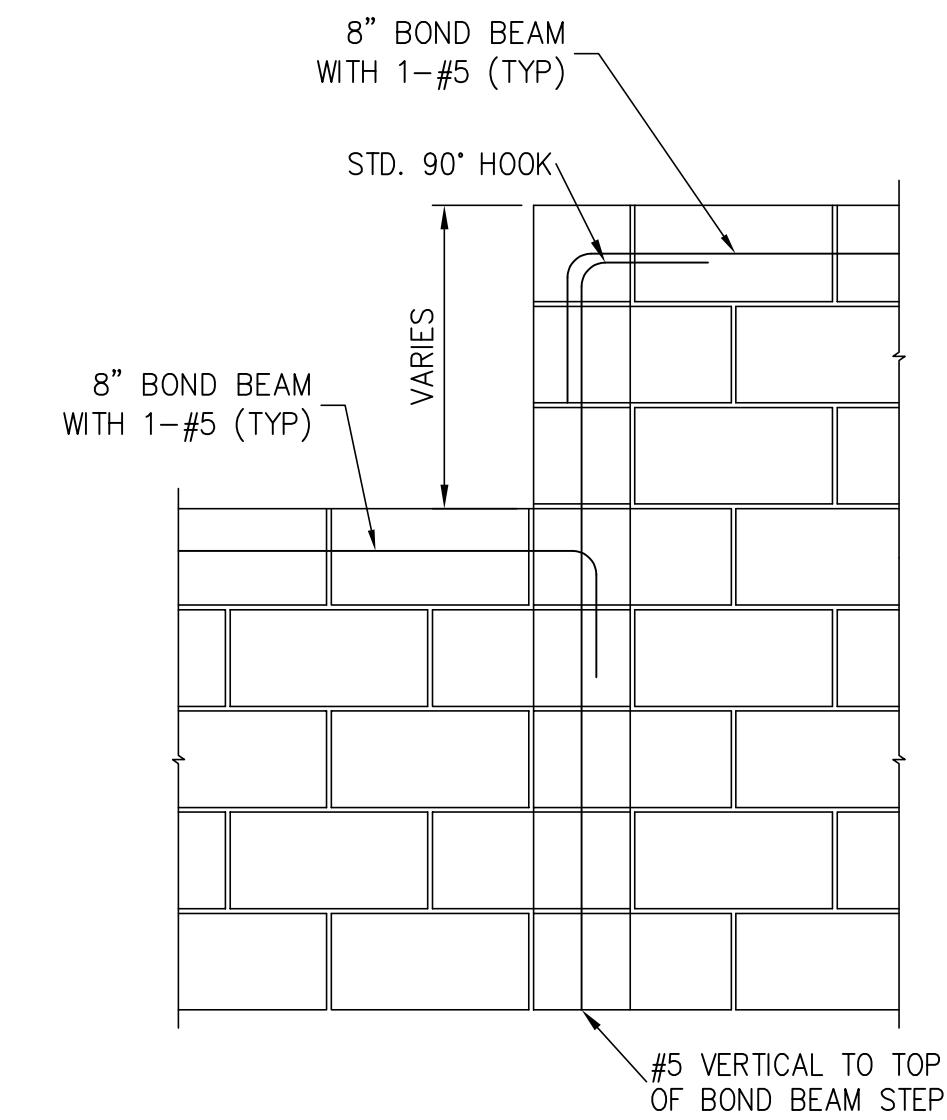
1. PRECAST LINTELS MUST BE DESIGNED BY CAST-CRETE CORP. OR BETTER. SEE CAST-CRETE "PRECAST CONCRETE PRODUCT DESIGN GUIDE" FOR SPECS
2. SEE 1ST AND 2ND LEVEL FRAMING PLAN FOR LINTEL PER OPENING DESIGNATION
3. PROVIDE MIN 8" BEARING EACH SIDE OF OPENING.
4. GROUT LINTEL SOLID.
5. EXTEND HORIZONTAL REINFORCING 16" PAST OPENING

4 LINTEL DETAIL
S3.0 SCALE: 3/4" = 1'-0"



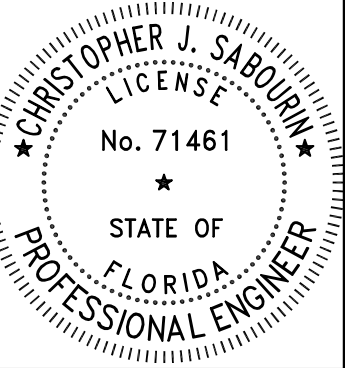
7 CMU CONTROL JOINT
SCALE: N.T.S.

5 MASONRY WALL STEP
S3.0 SCALE: 3/4" = 1'-0"



NO BUCK AND ATTACHED DIRECTLY TO MASONRY

9 GARAGE DOOR ATTACHMENT
S3.0 SCALE: N.T.S.



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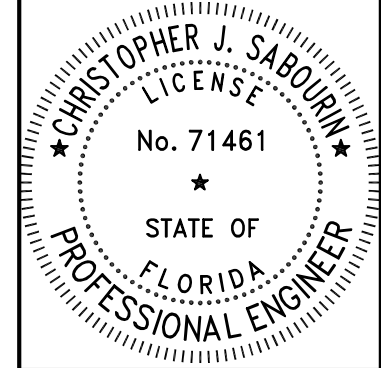
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CMU DETAILS



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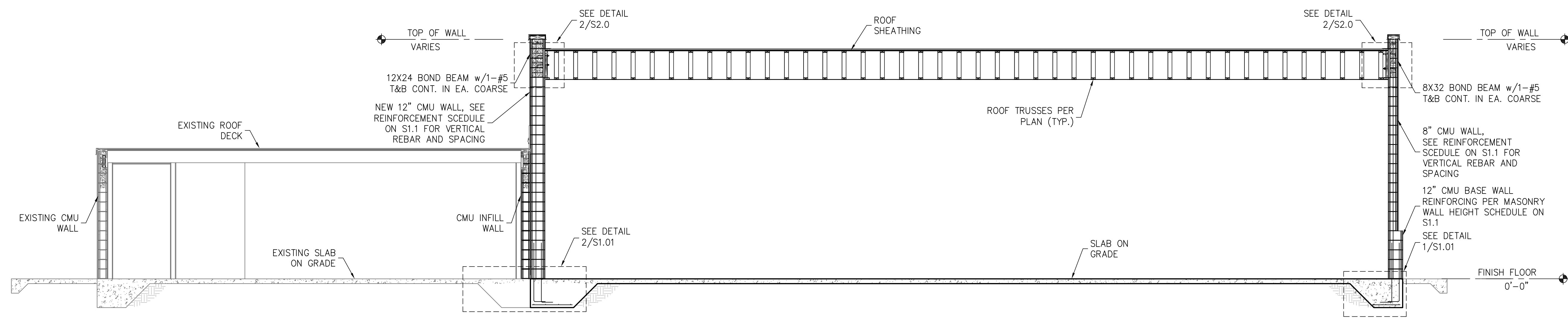
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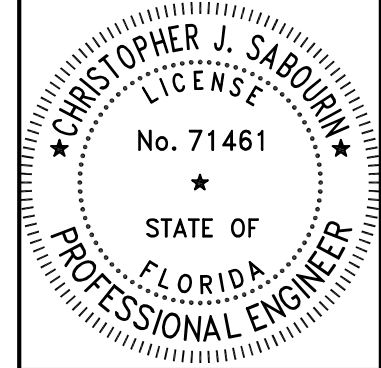
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WAREHOUSE
SECTION

SHEET
S4.0
SHEET 9 OF 11



1 SECTION
S4.0



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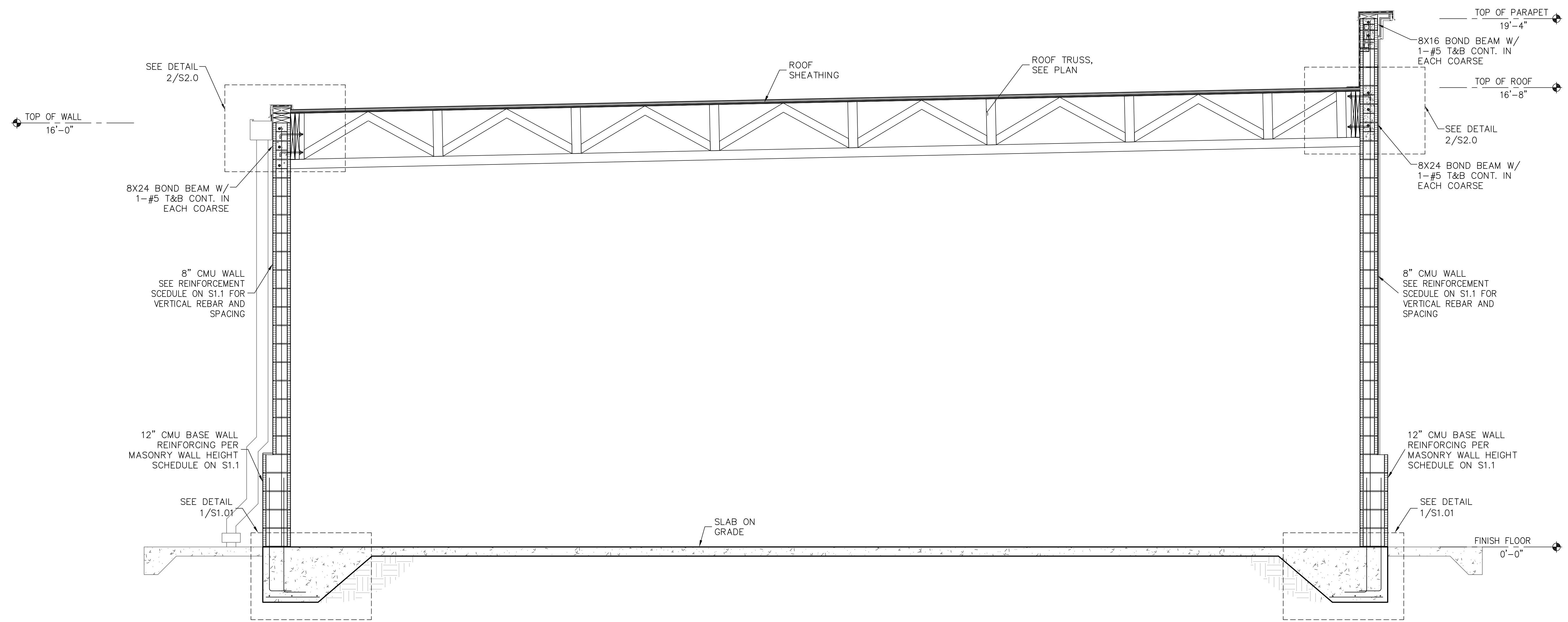
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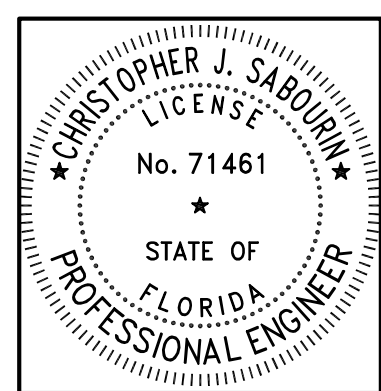
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WAREHOUSE
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SHEET
S4.1
SHEET 10 OF 11



1 SECTION
S4.1



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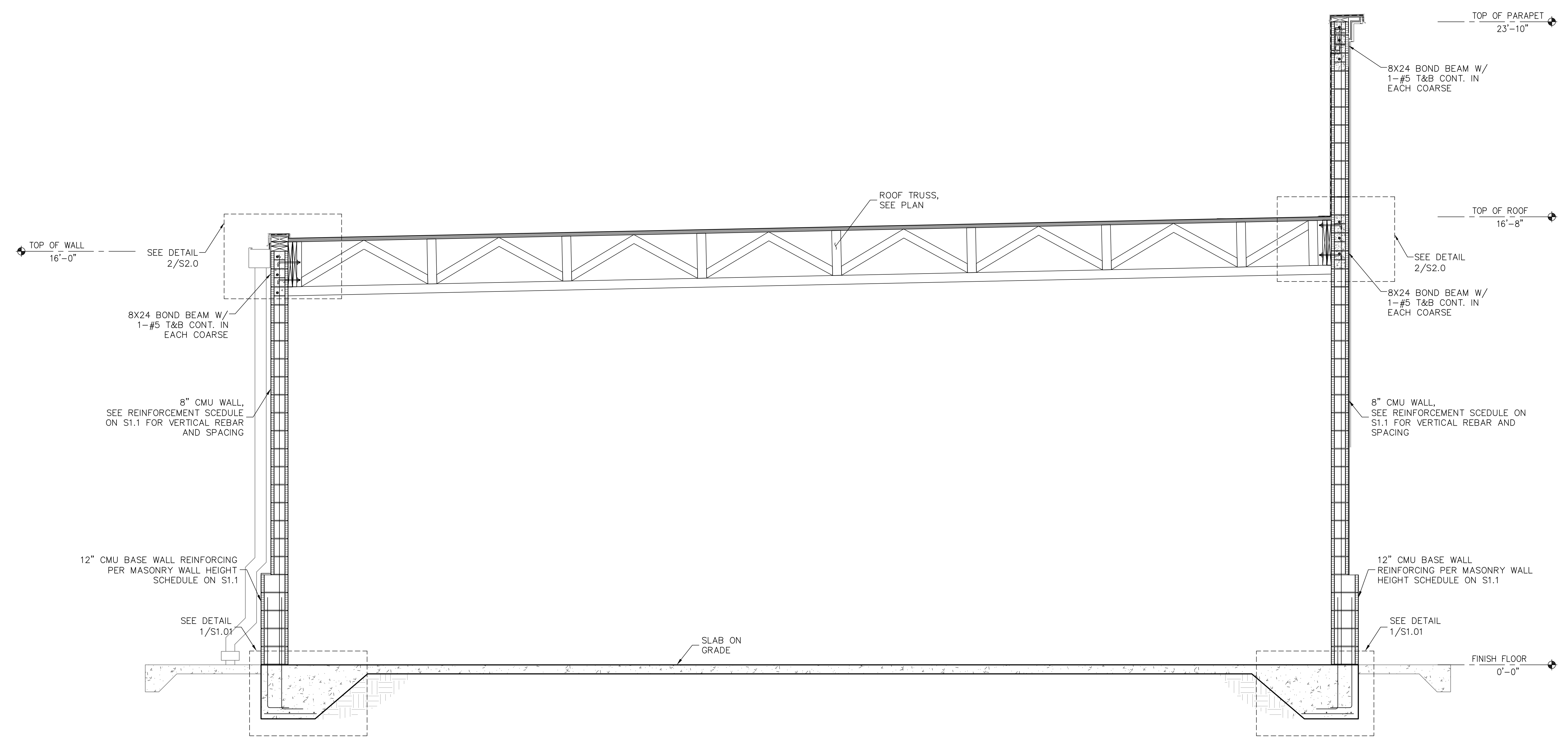
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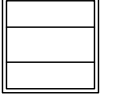

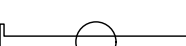

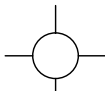

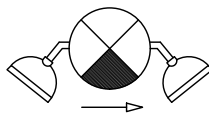
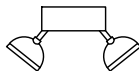


WAREHOUSE
SECTION

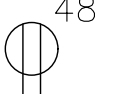
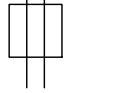
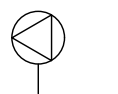
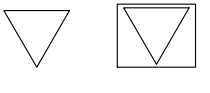

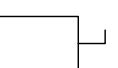


SHEET
S4.2
SHEET 11 OF 11



1 SECTION
S4.2

ELECTRICAL LEGEND


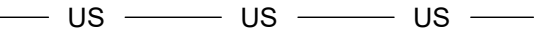

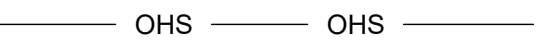
	2' x 2' RECESSED LED TROFFER LIGHT FIXTURE.
	SUSPENDED LED HIGH-BAY LIGHT FIXTURE.
	4' LED STRIP LIGHT FIXTURE.
	RECESSED DOWN LIGHT FIXTURE.
	WALL MOUNT LIGHT FIXTURE WITH HID, COMPACT FLUORESCENT, OR LED LIGHT SOURCE.
	POLE MOUNT LED AREA LIGHT FIXTURE.
	COMBINATION EXIT SIGN AND EMERGENCY LIGHT FIXTURE 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. NUMBER, IF PROVIDED, DENOTES SWITCH LOOP.
	SINGLE POLE TOGGLE SWITCH WITH BUILT IN DUAL-TECHNOLOGY OCCUPANCY SENSOR, 20 AMP, 120/277 VOLT, WITH COVER PLATE.

	48" DUPLEX RECEPTACLE, 20A, 120V, WITH GROUND AND COVER PLATE. NUMBER, IF PROVIDED, REPRESENTS HEIGHT ABOVE FINISHED FLOOR.
	GFI DUPLEX RECEPTACLE, 20A, 120V, WITH GROUND PLATE. NUMBER.
	SPECIAL PURPOSE RECEPTACLE WITH GROUND AND COVER PLATE. TAG (IF PROVIDED) INDICATES NEMA RECEPTACLE TYPE.
	DATA OUTLET, AND BACK BOX. BOX AROUND SYMBOL INDICATES FLOOR MOUNT WITH BRASS COVER PLATE.
	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.
	SURFACE MOUNTED ELECTRICAL 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.

ABBREVIATIONS

AFF	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
RL	RELOCATED
RTU	ROOF TOP UNIT
TYP.	TYPICAL
UNO	UNLESS NOTED OTHERWISE
UP	UNDERGROUND PRIMARY
US	UNDERGROUND SECONDARY
LC	LIGHTING CONTROLS
TC	TIME CLOCK
WP	WEATHER PROOF (& GFI)

LINE TYPES

	UNDERGROUND PRIMARY CONDUCTORS
	UNDERGROUND SECONDARY CONDUCTORS
	OVERHEAD PRIMARY CONDUCTORS
	OVERHEAD SECONDARY CONDUCTORS

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 PULLSTRING FOR ALL EMPTY CONDUITS.
 - 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 POWER RISER DIAGRAM AND PANEL SCHEDULES, SHEETS E-5 AND E-6, 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 48" A.F.F. (TO TOP OF BOX) 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.
- THE USE OF MC, MC-PCS, MC-HCF IS ALLOWED ON THIS PROJECT SUBJECT TO THE LIMITATIONS SET FORTH BELOW AND ACCORDING TO PARAMETERS SET FORTH IN NEC 70 ARTICLE 330.
- MC CABLE CAN BE USED TO CONNECT LUMINAIRES INSTALLED WITHIN AN ACCESSIBLE CEILING TO A JUNCTION BOX WHEN THE LENGTH DOES NOT EXCEED SIX FEET. IN SUCH INSTALLATIONS, THE MC CABLE FITTINGS SHALL BE PERMITTED AS MEANS OF CABLE SUPPORT.
- MC CABLE CAN BE USED TO CONNECT DEVICES INSTALLED CONCEALED INSIDE A WALL CAVITY.
- MC CABLE CAN BE USED TO CONNECT THE LAST DEVICE IN A CIRCUIT TO A HOMERUN JUNCTION BOX MOUNTED ON OR ADJACENT TO THE FRAMING TOP PLATE.
- MC CABLE USE SHALL BE LIMITED TO #12, #10 AND #8 COPPER CONDUCTORS.
- MC CABLE SHALL BE INSTALLED PARALLEL OR PERPENDICULAR TO BUILDING LINES AND FRAMING MEMBERS.
- MC CABLE SHALL BE USED FOR BRANCH CIRCUITS ONLY. HOMERUNS SHALL BE IN CONDUIT.
- MC CABLE SHALL BE PROTECTED WHEN INSTALLED THROUGH OR RUN PARALLEL TO FRAMING MEMBERS SO THAT THE NEAREST OUTSIDE SURFACE IS AT LEAST 1 1/4" FROM THE NEAREST EDGE OF THE FRAMING MEMBER. WHEN THIS DISTANCE CAN NOT BE MAINTAINED, THE CABLE SHALL BE PROTECTED FROM SCREW OR NAIL PENETRATION BY A STEEL PLATE, SLEEVE OR EQUIVALENT OF AT LEAST 1/16" THICK.
- THE RADIUS OF INNER BEND IN CORRUGATED SHEATH MC CABLE SHALL BE GREATER THAN 4" FOR MC CABLE CONTAINING #12 CONDUCTORS AND 4.5" FOR MC CABLE CONTAINING #10 CONDUCTORS.
- MC CABLES SHALL BE SUPPORTED AT LEAST EVERY 6' & WITHIN 12" OF EVERY BOX, FITTING OR OTHER TERMINATION.
- MC CABLE SHALL BE REPLACED WHEN THE CORRUGATED SHEATH HAS SEPARATED AND IS NO LONGER INTERLOCKED.
- MC-HCF MEDICAL GRADE MC CABLE SHALL BE USED IN ALL AREAS.
- MC-OCF LUMINARY CABLE SHALL BE USED WHEN CONNECTING A DIMMING DEVICE TO DIMMABLE LUMINAIRES.
- MC IS NOT APPROVED FOR LIFE SAFETY/CRITICAL CIRCUITS.

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SHEET TITLE: ELECTRICAL LEGEND & PROJECT GENERAL NOTES

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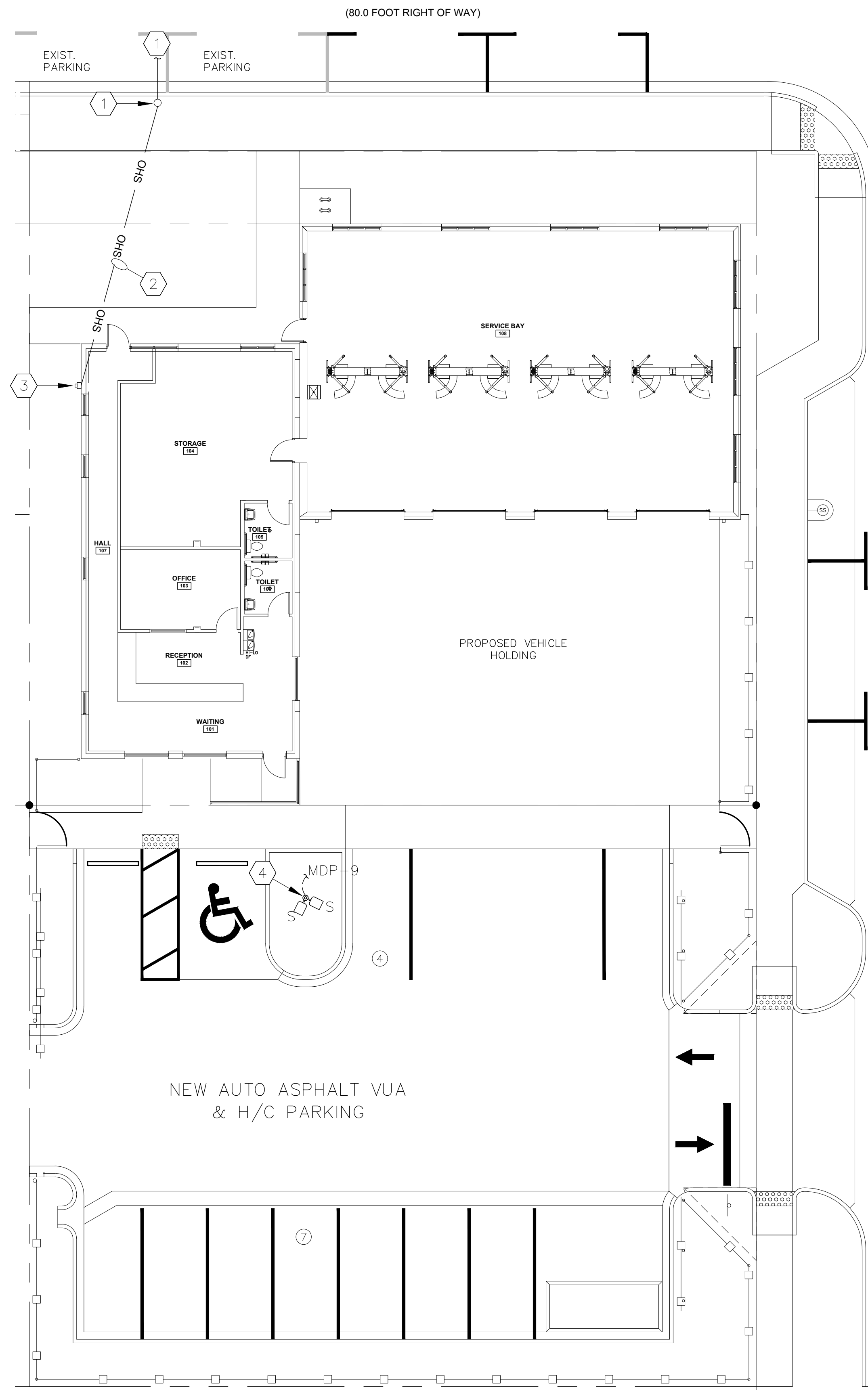
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SHEET

E-1

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ELECTRICAL SITE PLAN
SCALE: 3/32"=1'-0"

GENERAL NOTES

1. ALL WORK ASSOCIATED WITH ELECTRIC SERVICE SHALL BE DONE IN ACCORDANCE WITH THE LOCAL UTILITY'S RULES AND REGULATIONS FOR ELECTRIC SERVICE, LATEST EDITION. LOCATION AND CONFIGURATION OF ELECTRICAL SERVICE ARE TENTATIVE. THE CONTRACTOR SHALL PAY ALL ELECTRIC FEES NECESSARY TO ESTABLISH ELECTRICAL SERVICE. CONTACT LOCAL UTILITY, BEFORE PURCHASING ANY MATERIALS AND TO COORDINATE ALL WORK.
2. ROUTING OF UNDERGROUND CONDUITS SHOWN IS INTENDED TO BE DIAGRAMMATIC. HAND DIG AND ROUTE CONDUIT AS NECESSARY TO AVOID STRUCTURES, TREES, UNDERGROUND UTILITIES, ETC. PROVIDE PULLBOXES AS NECESSARY AND/OR REQUIRED TO AID IN PULLING CONDUCTORS.
3. ELECTRICAL SITE PLAN IS FOR ORIENTATION PURPOSES ONLY. SEE CIVIL SITE PLAN FOR LOCATION OF STRUCTURES, CURBING, PAVED AREA, EXISTING UTILITIES, ETC. LOCATION SHOWN FOR EXTERIOR ELECTRICAL EQUIPMENT IS ONLY APPROXIMATE. CONFIRM EXACT LOCATION PER ARCHITECTURAL AND CIVIL PLAN.
4. AFTER CONSTRUCTION, RETURN SURROUNDING AREA, INCLUDING GRASS, CURBS, AND PAVEMENT TO ORIGINAL CONDITIONS.
5. FOR TELECOMMUNICATIONS SERVICE, PROVIDE 1-3" PVC SCHED. 40 CONDUIT AND PULL WIRE FROM THE TELEPHONE BACKBOARD TO THE PROPERTY LINE (NOT SHOWN). REPAIR ALL DAMAGE TO SITE PER NOTE 4 ABOVE. CONFIGURATION DESCRIBED IS TENTATIVE. COORDINATE EXACT LOCATION OF EQUIPMENT AND CONDUIT AND REQUIREMENTS WITH SERVICE PROVIDER.

KEY NOTES ⓧ

1. APPROXIMATE LOCATION OF RISER POLE. POLE MOUNTED TRANSFORMER ACROSS ARLINGTON ROAD. SEE POWER RISER DIAGRAM ON SHEET E-5 FOR MORE INFORMATION.
2. OVERHEAD SECONDARY FEEDER. SEE POWER RISER DIAGRAM ON SHEET E-5 FOR MORE INFORMATION.
3. PROVIDE UTILITY APPROVED METER. SEE POWER RISER DIAGRAM ON SHEET E-5 FOR MORE INFORMATION.
4. PROVIDE 30' CONCRETE POLE. SEE LIGHT POLE FOUNDATION DETAILS ON SHEET E-7. MOUNTING HEIGHT FOR POLE LIGHT FIXTURES SHALL BE 25' AFG (TYP.).

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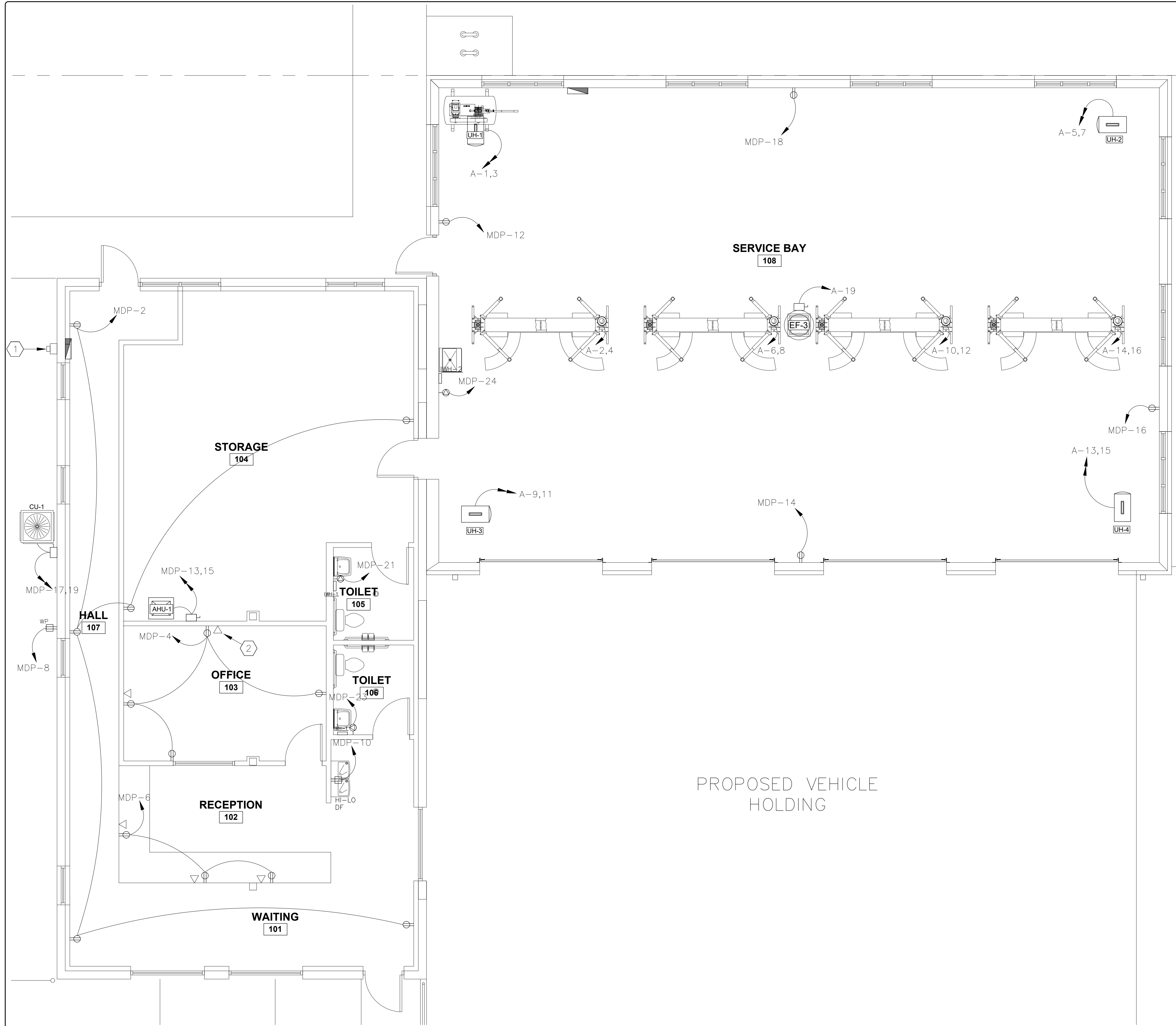
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SHEET
E-2

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POWER PLAN
SCALE: 1/4"=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.

KEY NOTES ⓧ

1. UTILITY APPROVED 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-7 FOR MORE INFORMATION.

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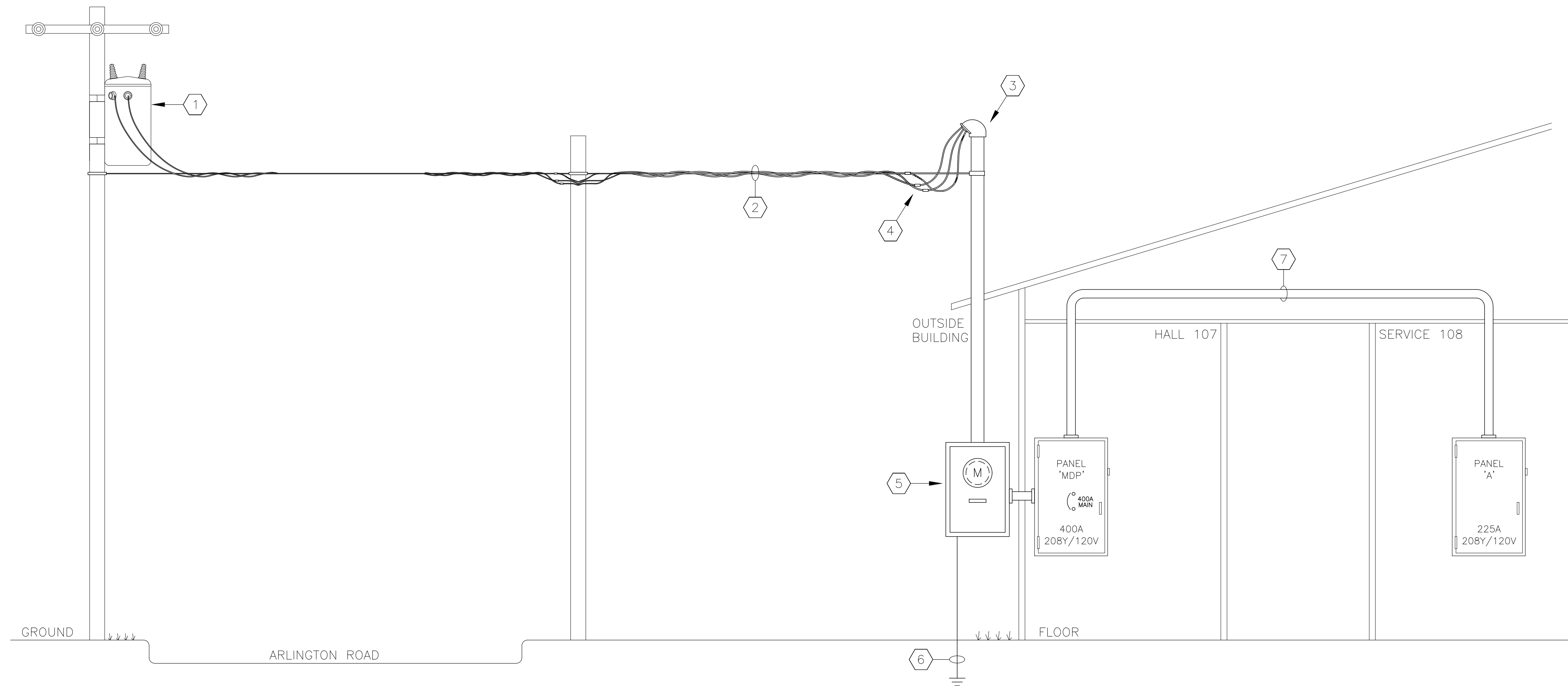
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SHEET
E-4

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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 (XX)

- EXISTING PRIMARY RISER POLE AND POLE MOUNTED TRANSFORMERS TO REMAIN.
- EXISTING 120/240V SINGLE PHASE, 3 WIRE OVERHEAD SERVICE DROP FROM EXISTING POLE MOUNTED TRANSFORMER TO BUILDING TO REMAIN.
- REPLACE EXISTING WEATHERHEAD AND RGS CONDUIT TO BE REPLACED WITH NEW U.L. LISTED WEATHERHEAD AND 3" RGS CONDUIT MAST. MAINTAIN MINIMUM VERTICAL CLEARANCES PER NEC ARTICLE 230.
- POINT OF CONNECTION FOR ELECTRICAL SERVICE. PROVIDE 3-500 KCMIL CONDUCTORS IN SERVICE MAST DESCRIBED ABOVE. THE ELECTRICAL CONTRACTOR SHALL PROVIDE 5" OF EXCESS CONDUCTORS AT THE WEATHERHEAD TO ALLOW THE UTILITY TO CONNECT TO THE SERVICE DROP AND FORM A DRIP LOOP.
- PROVIDE UTILITY APPROVED METER SOCKET WITH BYPASS IN NEMA 3R ENCLOSURE. INSTALL UTILITY FURNISHED METER. PROPERLY GROUND METER SOCKET PER NEC SECTION 250 AND LOCAL STANDARDS.
- PROVIDE #2/0 AWG COPPER GROUNDING ELECTRODE CONDUCTOR. BOND TO GROUND ROD AND ALL OTHER AVAILABLE GROUND ELECTRODES, PER GROUNDING DETAIL, SHEET E-7, NEC SECTION 250, LOCAL CODES, AND SPECIFICATIONS.
- PROVIDE 4#4/0 AWG CONDUCTORS AND #2 AWG GROUND IN 3" CONDUIT TO REMAIN.

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SHEET TITLE: POWER RISER DIAGRAM	
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LIGHTING FIXTURE SCHEDULE										
MARK	MANUF.	CATALOG NUMBER	LAMPS		VOLT.	MOUNTING	WATTS	NOTES	DESCRIPTION / INSTALLATION	
			NO	TYPE						
A	COLUMBIA	CBT22-A-LSCS-EDD-NXCS-2PK	LED CRI 80+ 4000K (3000 LUMENS)		MVOLT	RECESSED	24 W		2X2 LED FLAT PANEL LIGHT FIXTURE WITH ACRYLIC LENS, 0-10V DIMMABLE DRIVER.	
B	PRESCOLITE	LBRP-M-LSSLCS9 / LBRP-4RD-T-D	LED CRI 80+ 3500K (800 LUMENS)		MVOLT	RECESSED	10 W		6" LED CAN LIGHT WITH DIMMABLE DRIVER AND SEMI-SPECULAR FINISH.	
C	COLUMBIA	PELA-840-L12-B-ED-U-ST	LED CRI 80+ 4000K (12000 LUMENS)		MVOLT	RECESSED	84 W		LINEAR HIGH BAY LED LIGHT FIXTURE.	
D	COLUMBIA	CSL4-LSCS	LED CRI 80+ 4000K (4274 LUMENS)		MVOLT	RECESSED	30 W		4" LED STRIP LIGHT.	
EM	COMPASS	CU2RCS	LED		MVOLT	SURFACE	1 W		EMERGENCY LIGHT WITH SELF-DIAGNOSTIC AND 90 MINUTE BATTERY BACKUP.	
EX	COMPASS	CCRRC	LED		MVOLT	SURFACE	1 W		COMBINATION EXIT SIGN AND EMERGENCY LIGHT FIXTURE WITH SELF-DIAGNOSTIC AND 90 MINUTE BATTERY BACKUP.	
S	BEACON	VP-1-160L-75-4K8-2-UNV-A3-BLT	LED		MVOLT	POLE	72 W	9	LED ARE LIGHT	
W	ELITE	SCH6-WL-LED-UWM-BZ-4000L-DIM10-MVOLT-40K-90	LED CRI 80+ 4000K (4000 LUMENS)		MVOLT	WALL	52 W		OUTDOOR RATED WALL MOUNTED ARCHITECTURAL LED LIGHT FIXTURE.	

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.
- CONFIRM ALL LIGHT FIXTURES WITH OWNER PRIOR TO PURCHASING.
- COORDINATE LIGHT OUTPUT WITH OWNER.
- FIXTURES SHOWN MOUNTED TO WALL/SURFACE SHALL BE PROVIDED WITH WALL MOUNT BRACKET.
- NOTES THAT DO NOT APPEAR IN NOTES COLUMN OF THE SCHEDULE APPLY TO ALL FIXTURE TYPES.

LOCATION: HALL 107
FED BY: SERVICE

PANEL - MDP

TYPE: FLUSH MOUNT, NEMA 1
MAIN CB: 400A FRAME: 400A BUS RATING: 400A
VOLTAGE: 120/ 240 VOLTS 1 PH, 3 WIRE TYPE: BOLT-ON
MINIMUM AIC: 10K

NO.	AMPS TRIP	POLES	BRANCH CIRCUIT			SERVING	PHASE LOAD (KVA)				BRANCH CIRCUIT					NO.		
			WIRE	GRND	COND. (IN)		A	B	A	B	SERVING	COND. (IN)	GRND	WIRE	POLES		AMPS TRIP	
1	20	1	12	12	1/2	LTS, OFFICE*	0.5		1.2			RECP, GENERAL PURPOSE	1/2	12	12	1	20	2
3	20	1	12	12	1/2	LTS, SHOP*		1.3		0.8		RECP, OFFICE	1/2	12	12	1	20	4
5	20	1	12	12	1/2	SIGN*	1.5		0.6			RECP, WAITING DESK	1/2	12	12	1	20	6
7	20	1	12	12	1/2	LTS, EXTERIOR FRONT*		0.2		0.2		RECP, EXTERIOR	1/2	12	12	1	20	8
9	20	1	12	12	1/2	LTS, EXTERIOR REAR*	0.4		1.5			RECP, SHOP	1/2	12	12	1	20	10
11						SPARE				1.5		RECP, SHOP	1/2	12	12	1	20	12
13	60	2	4	10	3/4	AHU-1	4.4		1.5			RECP, SHOP	1/2	12	12	1	20	14
15						" "		4.4		1.5		RECP, SHOP	1/2	12	12	1	20	16
17	50	2	6	10	3/4	CU-1	3.0		25.5			PANEL A				2	225	18
19						" "		3.0		26.3		" "						20
21	30	1	10	10	3/4	IWH TOILET 105	2.4					SPACE						22
23	30	1	10	10	3/4	IWH TOILET 105		2.4		3.6		IWH - EYEWASH	3/4	10	8	1	40	24
25																		26
27																		28
29																		30

NOTES:
*CIRCUIT VIA TIME CLOCK. TIME CLOCK SHALL MEET ALL REQUIREMENTS PER THE 2020 FLORIDA ENERGY CODE.

TOTAL CONNECTED LOAD: 87.7 KVA
TOTAL DEMAND LOAD: 88.7 KVA

LOCATION: SHOP
FED BY: PANEL MDP

PANEL - A

TYPE: SURFACE MOUNT, NEMA 1
MAIN CB: MLO FRAME: BUS RATING: 225A
VOLTAGE: 120/ 240 VOLTS 1 PH, 3 WIRE TYPE: BOLT-ON
MINIMUM AIC: 10K

NO.	AMPS TRIP	POLES	BRANCH CIRCUIT			SERVING	PHASE LOAD (KVA)				BRANCH CIRCUIT					NO.		
			WIRE	GRND	COND. (IN)		A	B	A	B	SERVING	COND. (IN)	GRND	WIRE	POLES		AMPS TRIP	
1	20	2	12	12	1/2	LIFT 1	1.5		3.8			UH-1	3/4	10	10	2	30	2
3						" "		1.5		3.8		" "						4
5	20	2	12	12	1/2	LIFT 2	1.5		3.8			UH-2	3/4	10	10	2	30	6
7						" "		1.5		3.8		" "						8
9	20	2	12	12	1/2	LIFT 3	1.5		3.8			UH-3	3/4	10	10	2	30	10
11						" "		1.5		3.8		" "						12
13	20	2	12	12	1/2	LIFT 4	1.5		3.8			UH-4	3/4	10	10	2	30	14
15						" "		1.5		3.8		" "						16
17						SPACE			3.6			COMPRESSOR	3/4	10	6	2	50	18
19	20	2	12	12	1/2	EF-3		0.8		3.6		" "						20
21						SPACE						SPACE						22
23						SPACE						SPACE						24
25						SPACE						SPACE						26
27						SPACE						SPACE						28
29						SPACE						SPACE						30

TOTAL CONNECTED LOAD: 50.1 KVA
TOTAL DEMAND LOAD: 51.9 KVA

GENERAL NOTES

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

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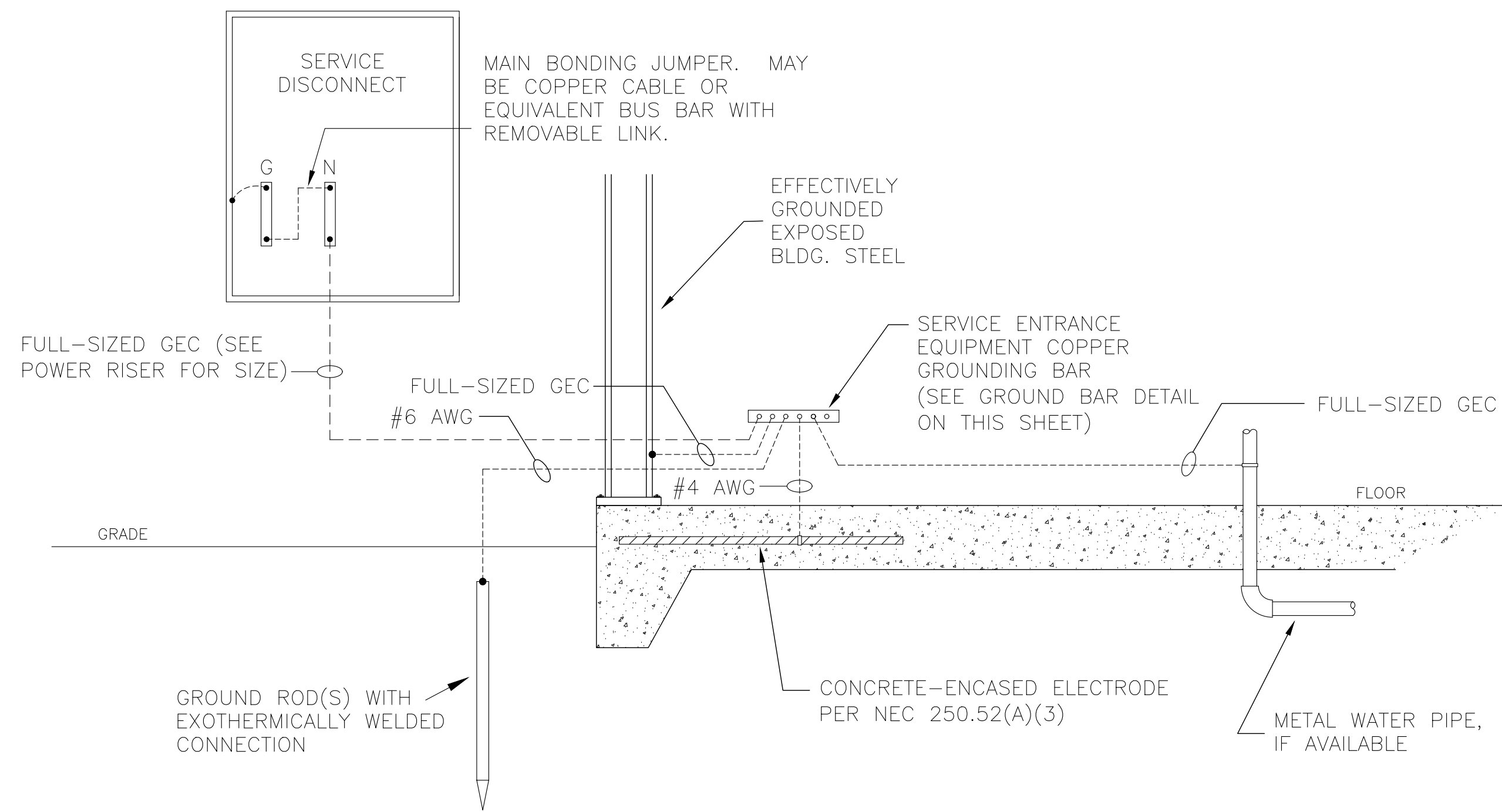
SHEET TITLE: ELECTRICAL SCHEDULES

NO.	DATE	REVISION

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DATE: 03-16-23

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E-6

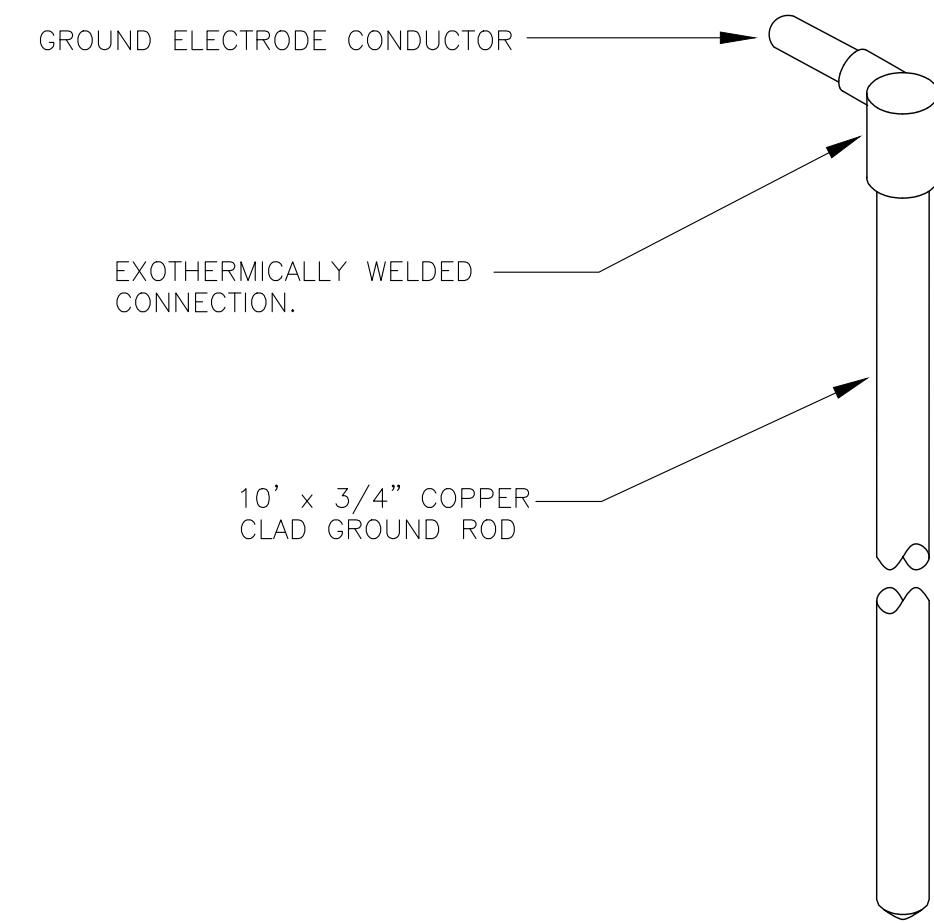
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- NOTES:
1. BOND & GROUND ELECTRICAL SYSTEM PER NEC SECTION 250 AND ALL LOCAL CODES AND STATUTES. TEST GROUND PER SPECIFICATION SECTION 16060 TO ENSURE A MAXIMUM RESISTANCE TO GROUND OF 10 OHMS. ADD ADDITIONAL GROUND RODS AS NECESSARY TO MEET THIS REQUIREMENT.
 2. WHEN CONDUCTORS ARE SUBJECT TO DAMAGE THEY SHALL BE PROTECTED PER NEC.
 3. ALL GROUND ELECTRODE CONDUCTORS SHALL BE COPPER.

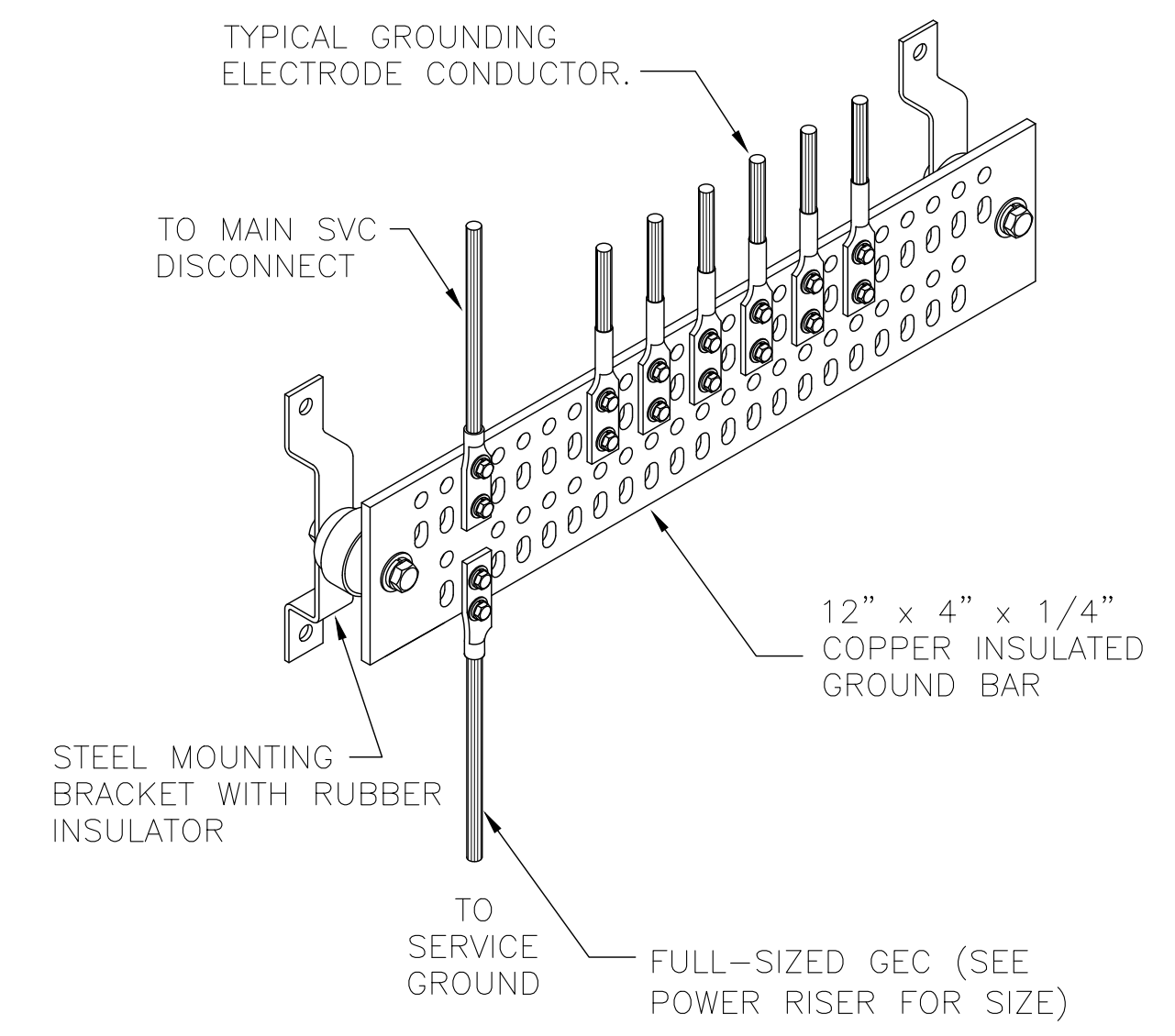
GROUNDING DETAIL

SCALE: NTS



TYPICAL GROUND ROD DETAIL

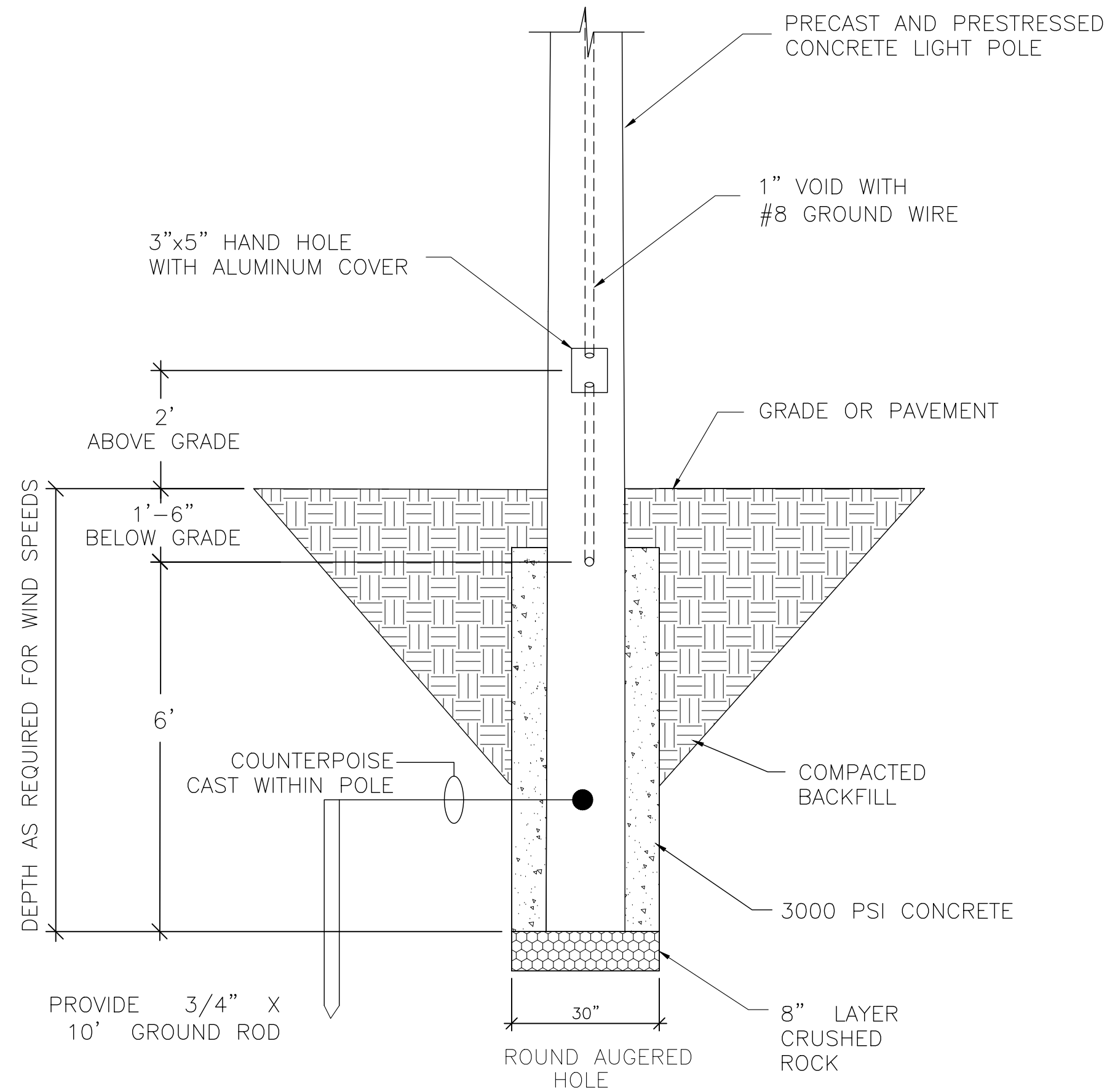
SCALE: NTS



- NOTES:
1. IF SERVICE DISCONNECT IS LOCATED OUTSIDE, PLACE GROUND BAR AT CLOSEST ACCESSIBLE LOCATION INSIDE THE BUILDING.

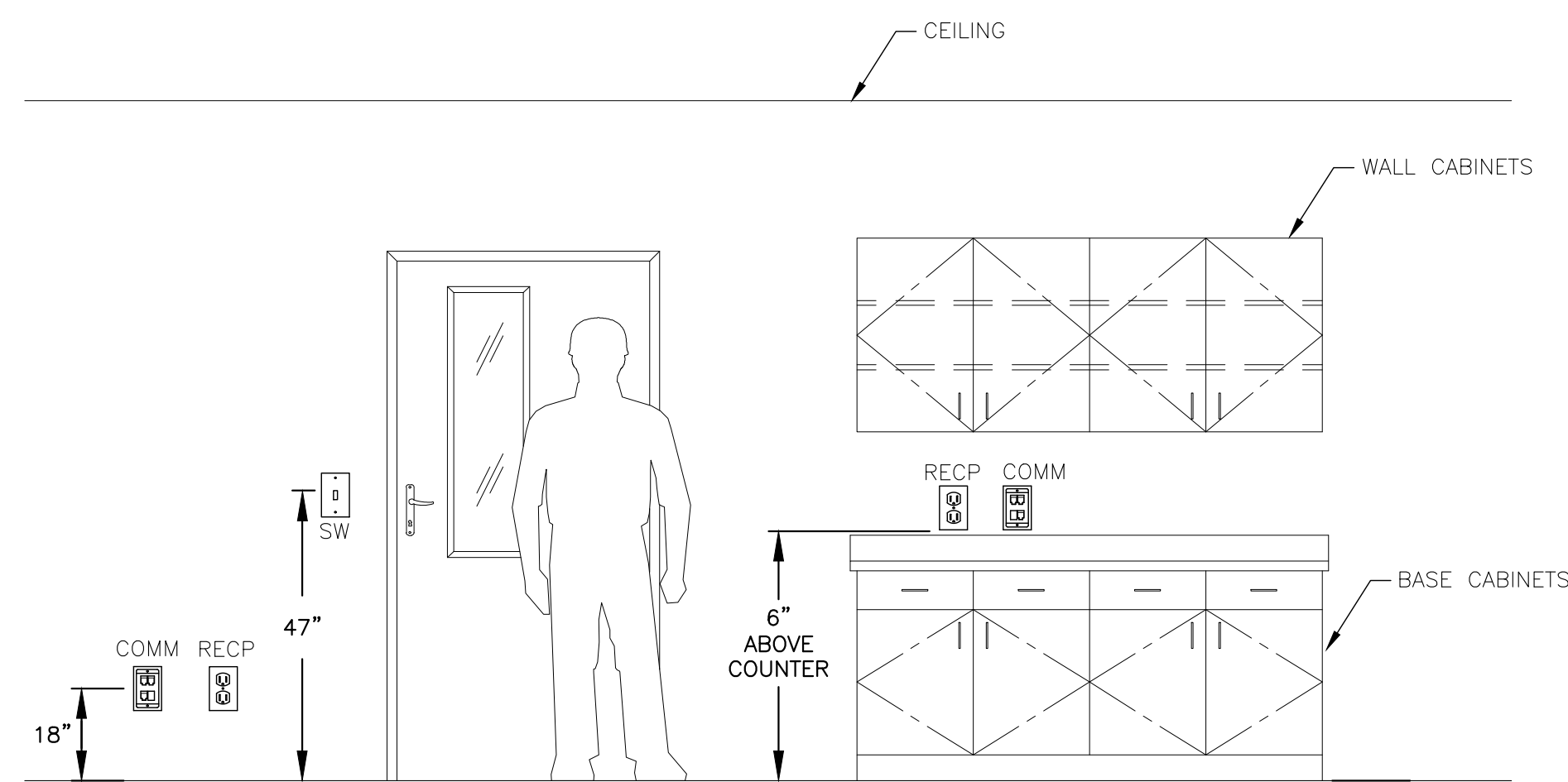
GROUND BAR DETAIL

SCALE: NTS



LIGHT POLE FOUNDATION DETAIL

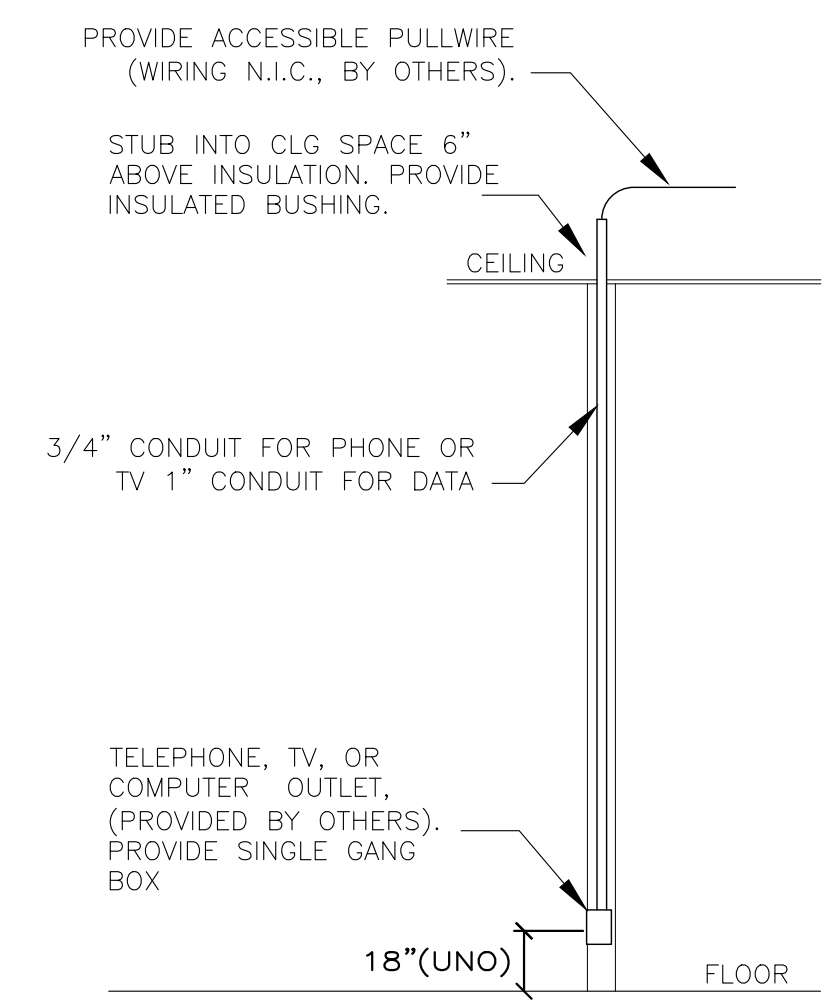
SCALE: NTS



- 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 AND DATA RISER

SCALE: NTS

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SHEET TITLE: ELECTRICAL DETAILS	
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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)		

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

NOTE: SOME SYMBOLS SHOWN DO NOT PERTAIN TO THIS PROJECT

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SHEET TITLE: MECHANICAL NOTES, LEGEND AND ABBREVIATIONS	
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SPLIT SYSTEM COOLING UNIT SCHEDULE																					
MARK	TONS	INDOOR FAN DATA				COOLING CAPACITY					SEER	INDOOR FAN			OUTDOOR UNIT		ELECTRICAL DATA			BASIS OF DESIGN	
		TOTAL FLOW (CFM)	O/A (CFM)	ESP (W.G.)	MOTOR (HP)	EDB (°F)	EWB (°F)	AMBIENT (°F)	TOTAL (BTU/HR)	SENSIBLE (BTU/HR)		MCA (A)	MOCF (A)	HEATER (KW)	MCA (A)	MOCF (A)	VOLTS	Hz	PHASE		
AHU-1 /CU-1	5	1800	200	0.7	0.75	80	67	95	55,700	38,100	14.5	54.6	60	8.8	30.9	50	230	60	1	YORK JHVTD60HBC2N1 / TCE2B60S21S	

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"	TITUS TMS	1,2
B	EGGCRATE RETURN	LAY-IN	24"x 24" / 12"x 12"	TITUS 50F	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
EF-3	WAREHOUSE	1725	0.1	UPBLAST	DIRECT	--	6.6	115/1/60	GREENHECK	CUE-160-VG	2,3

NOTES:
1. INTERLOCK WITH LIGHT SWITCH.
2. PROVIDE BACKDRAFT DAMPER.
3. CONTROLLED BY TIMECLOCK. SET TO RUN DURING OCCUPIED TIMES.

LOUVER SCHEDULE							
MARK	DESCRIPTION	TOTAL AIR (CFM)	MOUNTING	FACE SIZE	MATERIAL	BASIS OF DESIGN	NOTES
L-1	OUTDOOR AIR INTAKE	200	WALL MOUNTED	16" x 12"	ALUMINUM	GREENHECK EVH-501D	1,2
L-2	OUTDOOR AIR INTAKE	1725	WALL MOUNTED	40" x 24"	ALUMINUM	GREENHECK ESD-635	1,3

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

UNIT HEATER SCHEDULE											
MARK	HEATER KW	HEATER TYPE	SERVICE	AMPS	CFM	MOUNTING HEIGHT	VOLTS	Hz	PHASE	BASIS OF DESIGN	NOTES
UH-1,2,3,4	7.5	UNIT	WAREHOUSE	27.1	700	10'	240	60	1	REDDI HF2B5107CA1L	1-3

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 MOUNTING BRACKET, MOUNT WITH ADEQUATE CLEARANCE
3. PROVIDED WALL MOUNTED ENERGY SAVINGS THERMOSTAT SDHW1001

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.

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	98	140	0
STORAGE 104	0	0	0	0.12	569	N/A	68
OFFICE 103	5	5	1	0.06	182	N/A	16
HALLWAY	0	0	0	0.06	175	N/A	11
COUNTER AREA / WAITING	7.5	10	4.8	0.12	480	N/A	94
TOTAL O/A REQUIRED 189 CFM O/A PROVIDED THROUGH AHU-1 = 200 CFM				TOTAL EXHAUST = 140 CFM		189	

AIR BALANCE SCHEDULE					
UNIT	OUTSIDE AIR	RETURN AIR	SUPPLY AIR	EXHAUST AIR	PRESSURE
AHU-1	200	1600	1800	--	200
EF-1,2	--	--	--	-140	-140
TOTAL	200	1600	1800	-140	60

WAREHOUSE 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)
AUTOMOTIVE WAREHOUSE	0	0	0	0.12	2270	1702.5	272
TOTAL O/A REQUIRED 1703 CFM O/A PROVIDED THROUGH L-2 = 1725 CFM				TOTAL EXHAUST = 1703 CFM		272	

WAREHOUSE AIR BALANCE SCHEDULE					
UNIT	OUTSIDE AIR	RETURN AIR	SUPPLY AIR	EXHAUST AIR	PRESSURE
L-2	1725	--	--	--	1725
EF-3	--	--	--	-1725	-1725
TOTAL	1725	0	0	-1725	0

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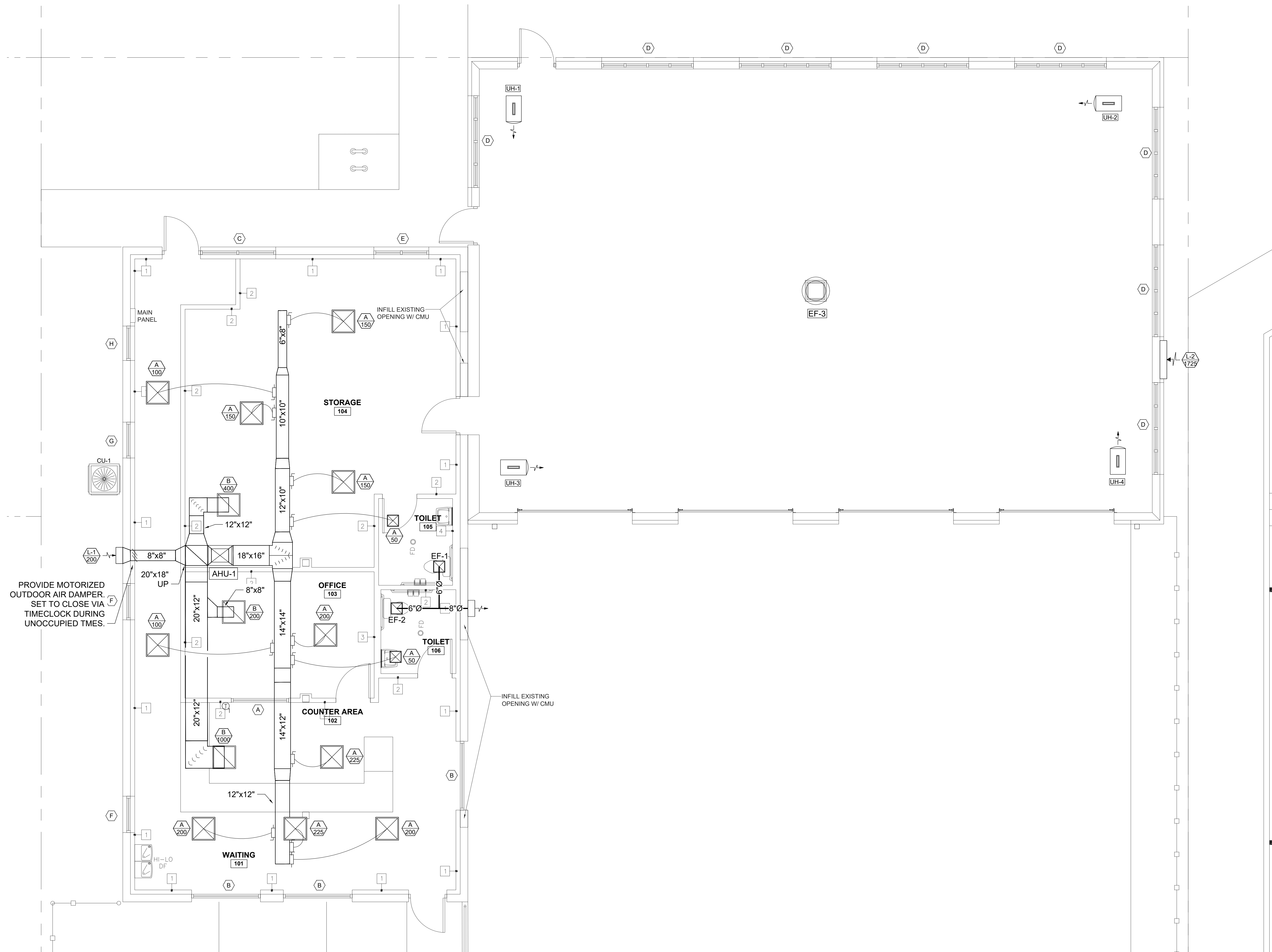
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SHEET TITLE: MECHANICAL SCHEDULES			
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PROVIDE MOTORIZED
OUTDOOR AIR DAMPER.
SET TO CLOSE VIA
TIMECLOCK DURING
UNOCCUPIED TIMES.

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



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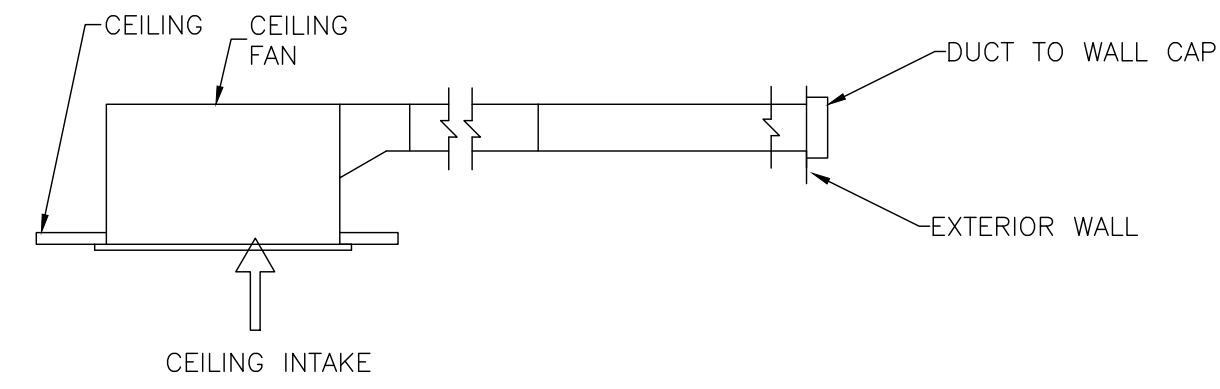
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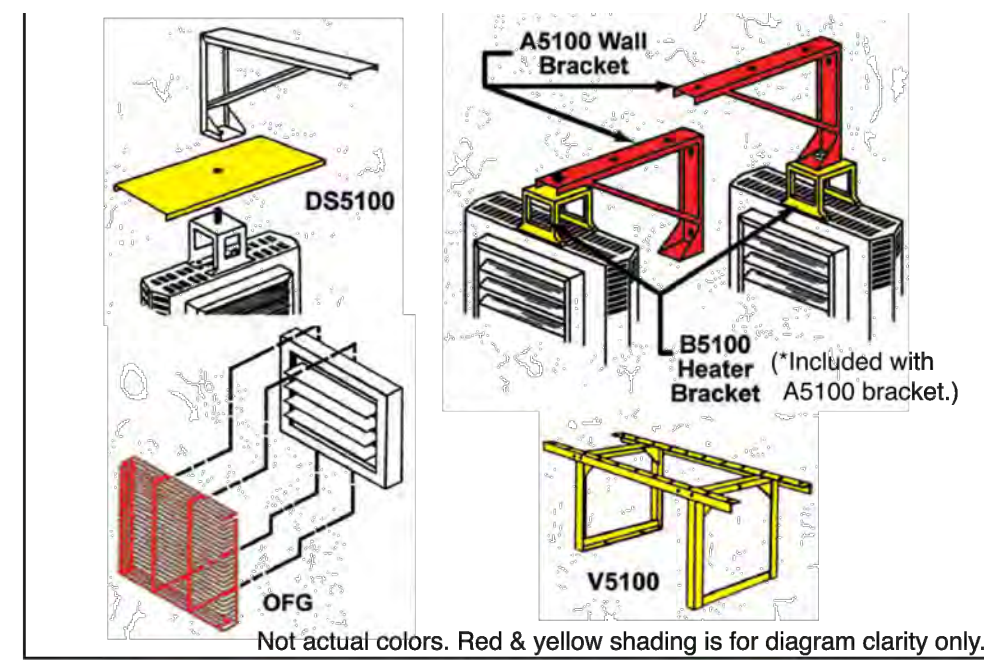
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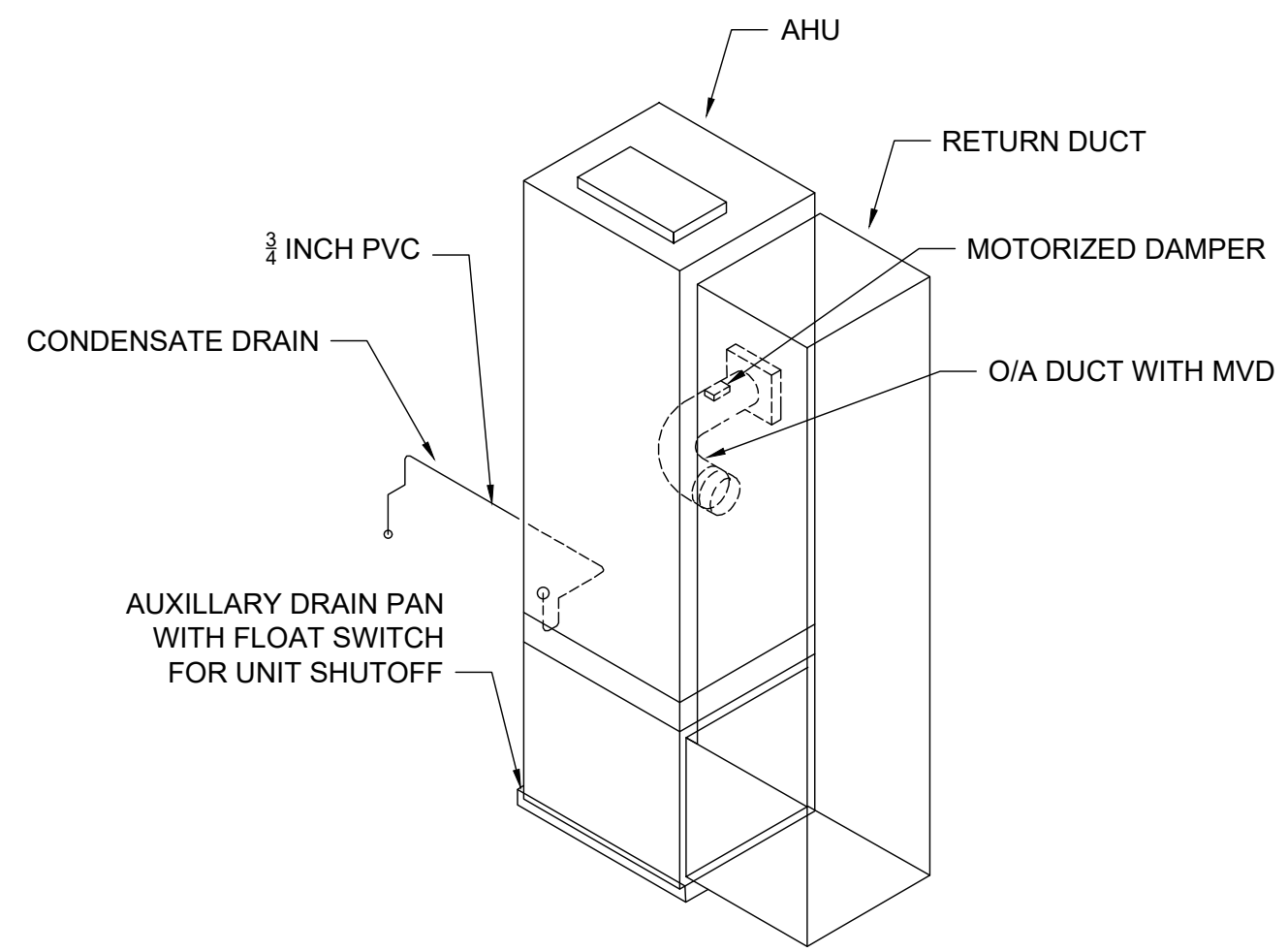
TOILET EXHAUST DETAIL

SCALE: N.T.S.



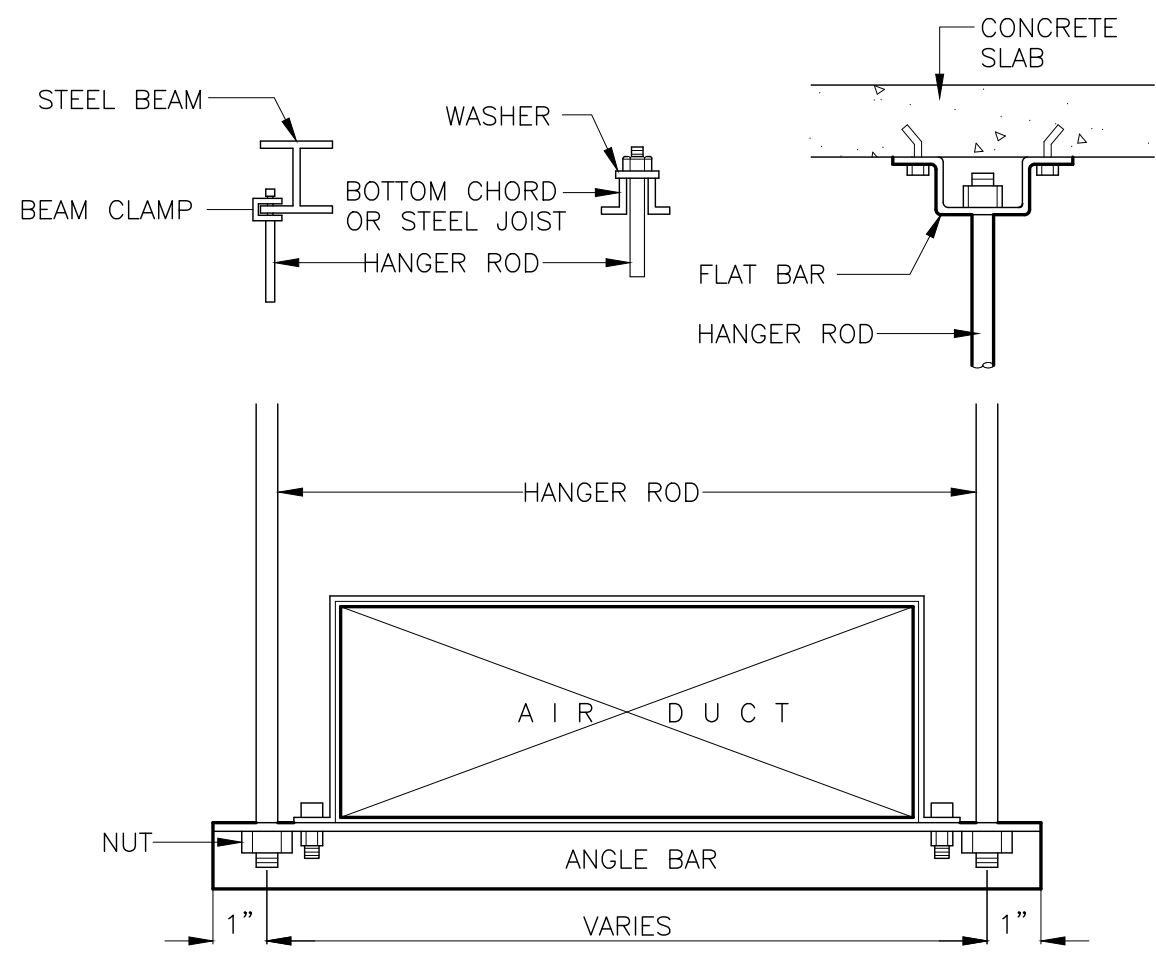
UNIT HEATER BRACKET DETAIL

SCALE: N.T.S.



AHU CONNECTION DETAIL

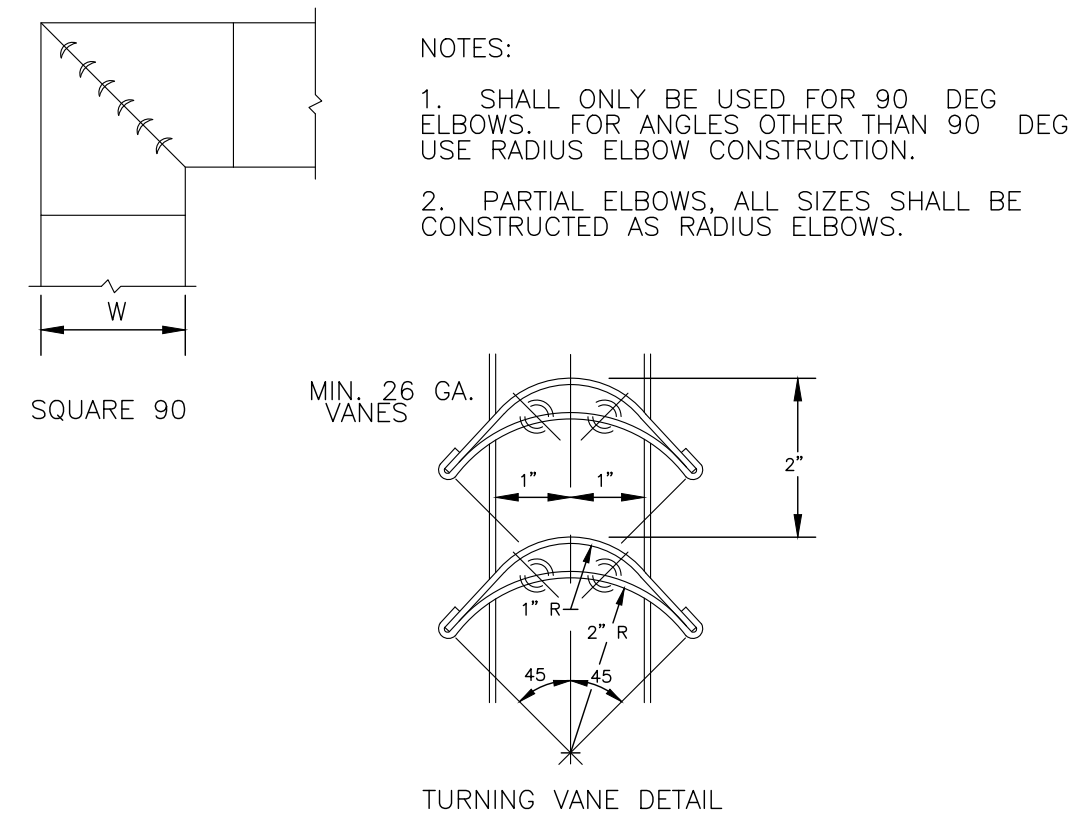
SCALE: N.T.S.



- 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.

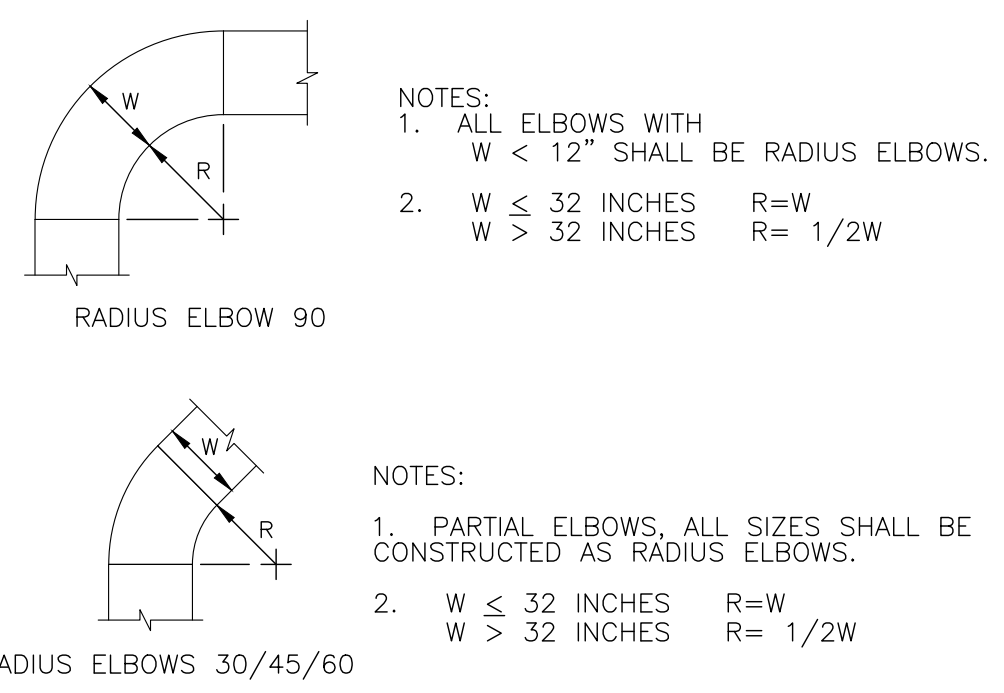
DUCT HANGER DETAIL

SCALE: N.T.S.



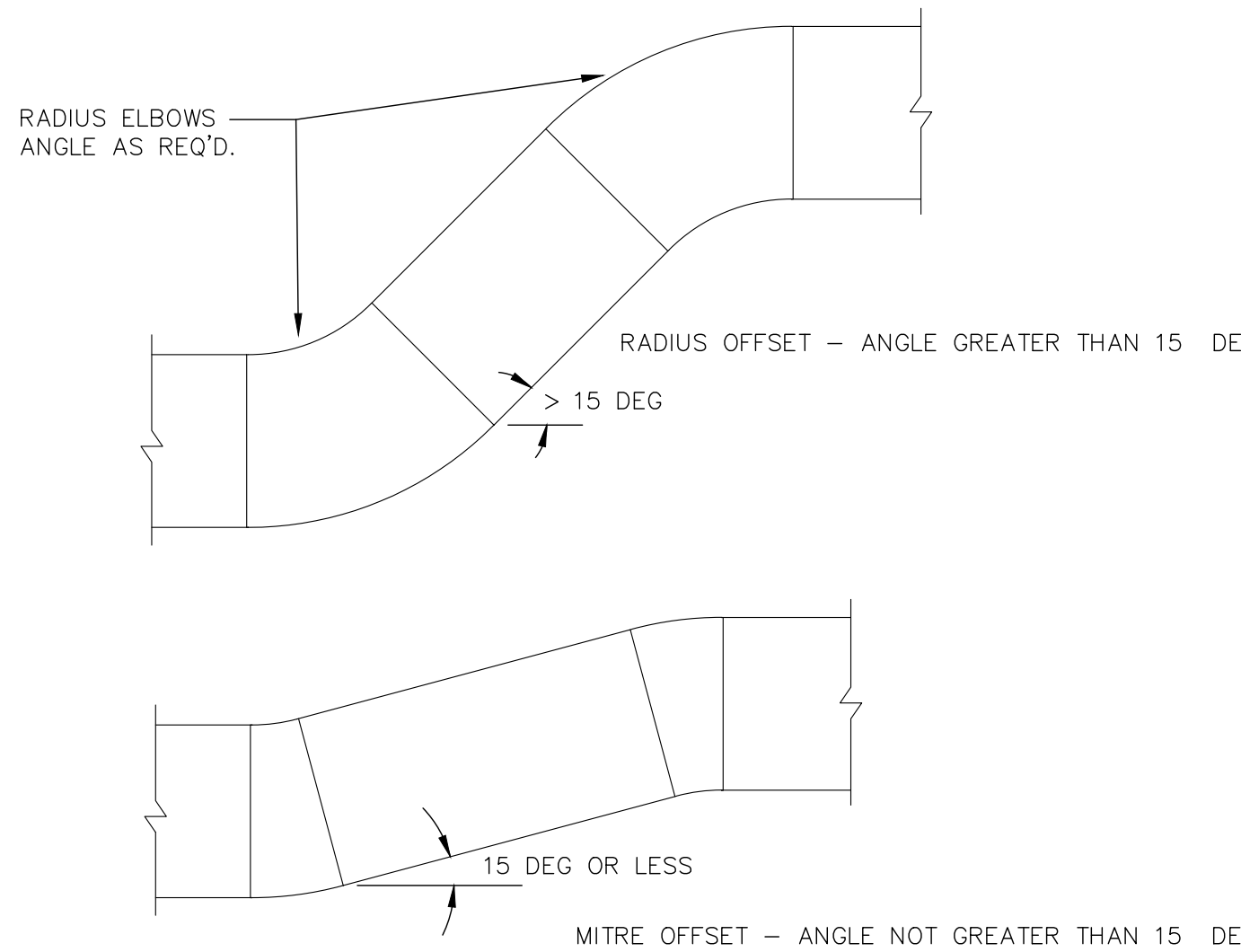
ELBOW DETAIL - RECT. DUCT

SCALE: N.T.S.



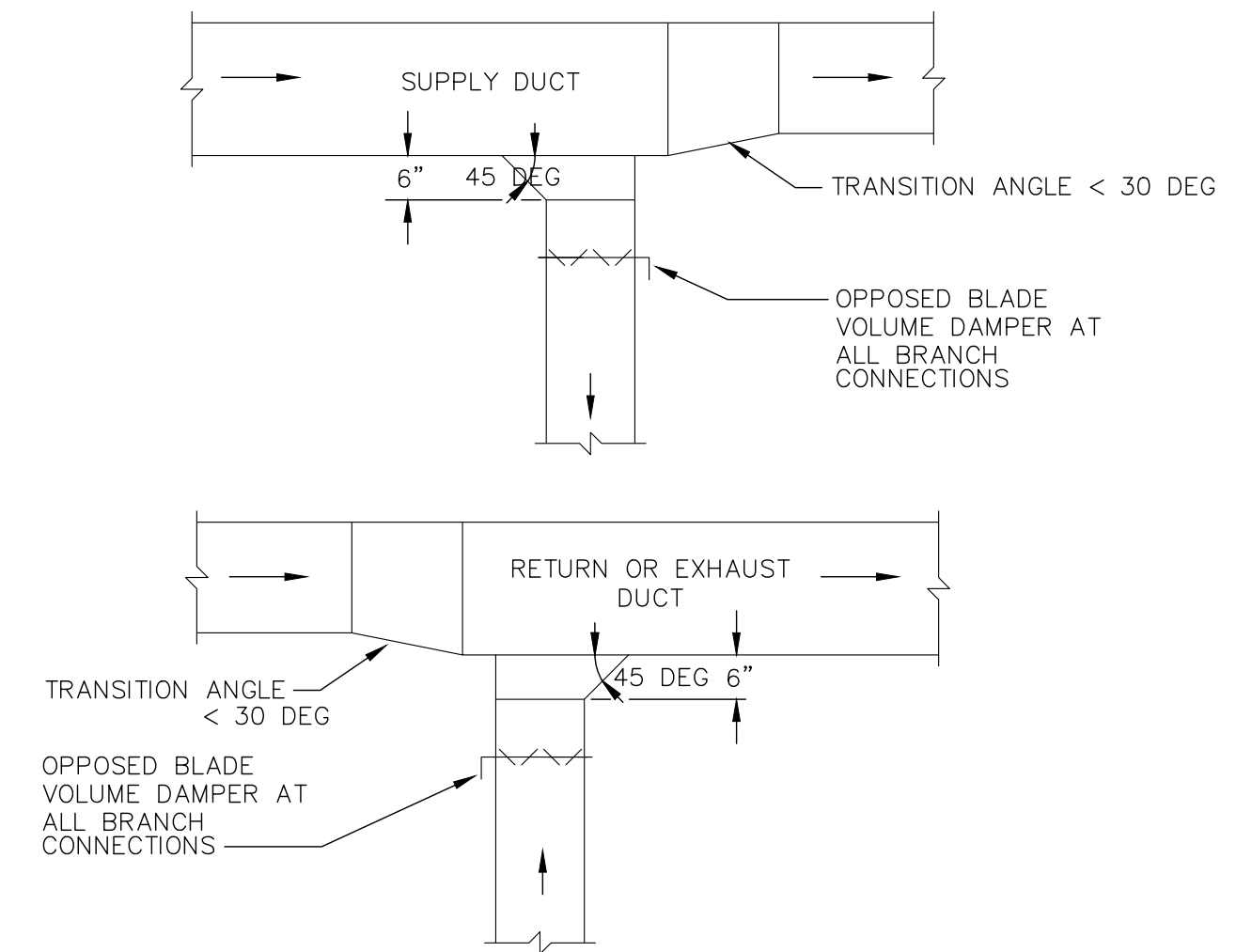
RADIUS ELBOW - RECT. DUCT

SCALE: N.T.S.



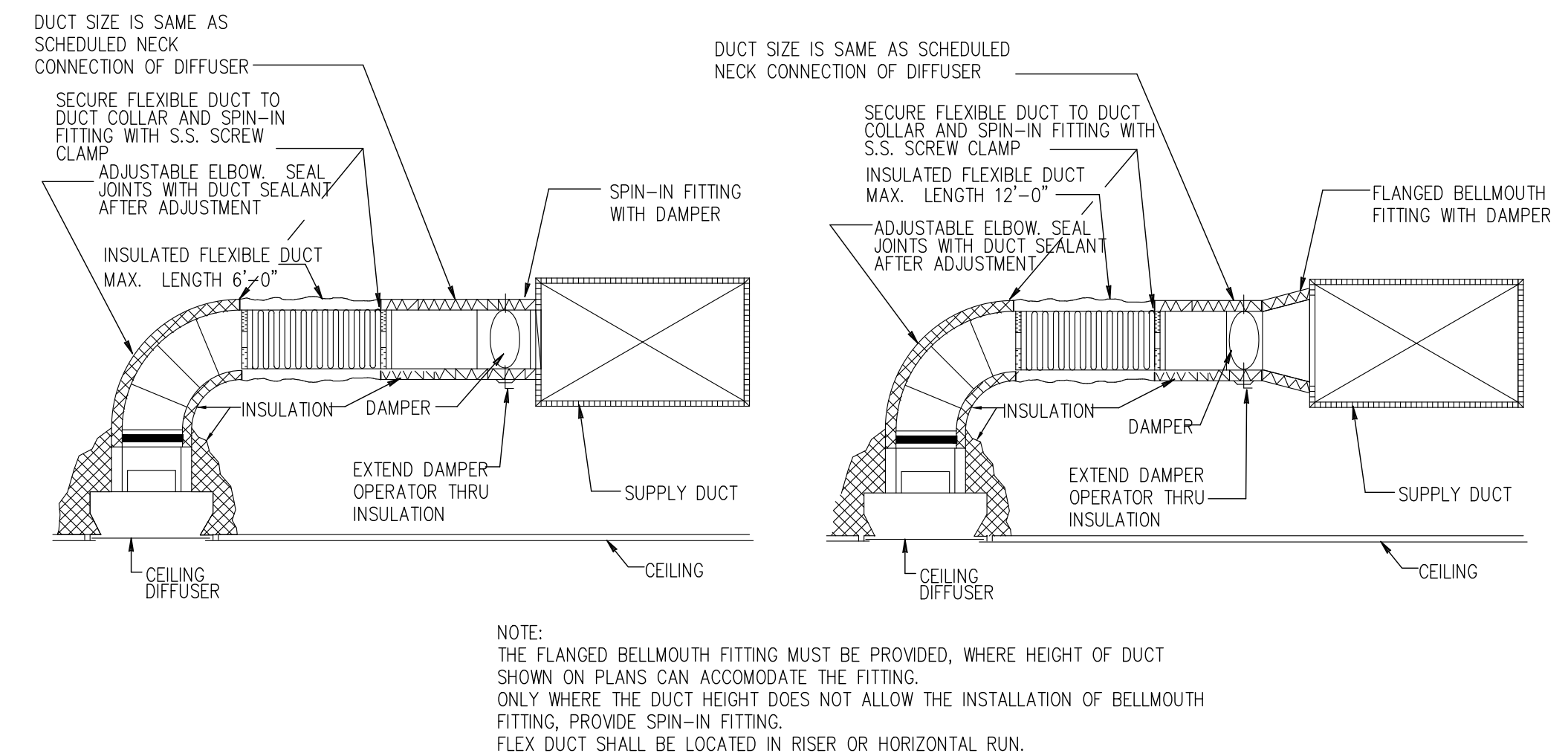
DUCT OFFSET

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 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, WHITE VITREOUS CHINA, BOTTOM OUTLET, SIPHON JET, 1.6 GPF, ELONGATED BOWL, WHITE SOLID COMMERCIAL HEAVY-DUTY PLASTIC ELONGATED OPEN FRONT SEAT LESS COVER. 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 17" FRONT TO REAR. PROVIDE ADA 4" CENTER SET SINGLE LEVER HANDLE FAUCET OR 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. COORDINATE WITH OWNER UPON PURCHASING AND INSTALLATION.	1/2"	1/2"	1-1/2"	2"
P-3	UTILITY TUB	FLOOR MOUNTED	FREE STANDING UTILITY TUB, SINGLE COMPARTMENT, WHITE BAKED ENAMEL, 2 HOLE, APPROXIMATELY 23"x23"x14" FIBERGLASS MOLDED TUB WITH LAUNDRY FAUCET WITH VACUUM BREAKER AND HOSE CONNECTION ADAPTER, 2.2 GPM AERATOR AND STAINLESS STEEL GRID DRAIN.	1/2"	1/2"	2"	2"
P-4A	ELECTRIC WATER COOLER TWO-LEVEL FOUNTAIN (ADA)	LOWER SPOUT @ 36" AFF (MAX.); UPPER SPOUT @ 38" TO 43" AFF.	ADA ELECTRIC WATER COOLER, WALL MOUNT, ADA COMPLIANT, 8.0 GPH CAPACITY, HI-LO CONFIGURATION, 1-1/4" ADJUSTABLE P-TRAP, 3/8" FLEXIBLE SUPPLIES AND ANGLE STOP VALVES IN CHROME PLATED BRASS. PROVIDE OPTIONAL ACCESSORY APRON AS NECESSARY TO MEET ADA PROTRUDING OBJECTS GUIDELINES.	1/2"	N/A	1-1/2"	2"

- NOTES:**
- 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.
 - FLEXIBLE SUPPLIES, TRAPS, TAILPIECES AND OTHER ACCESSORIES NOT IN WALL CAVITIES SHALL BE STAINLESS STEEL OR CHROME PLATED.
 - REFER TO MANUFACTURER'S DATA FOR INSTALLATION AND CONNECTION SIZES.
 - CONTRACTOR SHALL VERIFY FIXTURE SELECTIONS WITH OWNER PRIOR TO PURCHASING AND ROUGH-IN.
 - GENERAL CONTRACTOR TO COORDINATE WITH OWNER PRIOR TO PURCHASING ALL PLUMBING FIXTURES.

PLUMBING SPECIALTIES SCHEDULE		
MARK	FIXTURE DESCRIPTION	REMARKS
HY	WALL HYDRANT 18" AFG	ASSE 1011 MILD CLIMATE WALL HYDRANT WITH INTEGRAL ANTI-SIPHON VACUUM BREAKER. PROVIDE POLISHED BRONZE BOX FACE, RECESSED BOX WITH LOCKING COVER AND ASSE 1052 APPROVED BACKFLOW PREVENTER WITH CHECK VALVES.
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. 0.4 GPM MIN. FLOW RATE, 5.5 GPM MAX. FLOW RATE, 10.0 PSI MAX. PRESSURE DROP AT MAX. FLOW. LEONARD 270-LF OR APPROVED EQUAL. ASSE STANDARDS 1070 AND 1017 COMPLIANT, ADJUSTABLE DOWN TO 110°F. VALVE TO BE LABELED CSA B125 CERTIFIED.
TPV-1	TRAP PRIMER - GRAVITY FED TAILPIECE	TRAP PRIMER FITTING WITH BRAIDED 1/2" STAINLESS STEEL FLEXIBLE PRIMING MAKE UP WATER LINE TO WALL CAVITY WITH 5/8" COMPRESSION FITTINGS, AND CHROME PLATED ESCUTCHEONS. ASSE 1044 LISTED.
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.

AIR COMPRESSOR SCHEDULE							
MARK	TYPE	CAPACITY (AIRFLOW AT DELIVERED PRESSURE)		CFM PUMP DISPLACEMENT	RECEIVER	MOTOR	ELECTRICAL
		SCFM	PSIG	CFM	GAL	HP	V/PH/Hz
AC	A	24	175	32.6	80	7.5	230/1/60

NOTES AND ACCESSORIES:

- AIR COMPRESSOR TO INCLUDE AIR FILTER, OIL FILTER, AND DRAIN PLUG.
- BASIS OF DESIGN: NAPA MODEL #82378VAT
- COMPRESSED AIR PIPING SHALL CONFORM TO ASME B31.1.
- MAINTAIN MAXIMUM SOUND LEVEL OF 84 Dba.

COMPRESSOR TYPE:
TYPE A
DUAL STAGE RECIPROCATING, VERTICAL RECEIVER.

WATER HAMMER ARRESTOR SCHEDULE				
IP.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.

INSTANTANEOUS WATER HEATER SCHEDULE - ELECTRIC									
MARK	FIXTURE DESCRIPTION	LOCATION	CAPACITY kW (@120 V)	CAPACITY		WATER CONNECTION SIZE (IN.)	ACTIVATION FLOW (GPM)	SETPOINT (°F)	ELECTRICAL (V/PH/Hz)
				(GPM)	TEMP. RISE (°F)				
IWH-1	INSTANTANEOUS ELECTRIC WATER HEATER	TOILET ROOMS	2.4	0.4	41	1/2"	≤ 0.35	95°-140°	120/1/60
IWH-2	INSTANTANEOUS ELECTRIC WATER HEATER	UTILITY TUB	3.6	0.4	61	1/2"	≤ 0.35	95°-140°	120/1/60

- NOTES AND ACCESSORIES:**
- DESIGN BASED ON CHRONOMITE MODEL #SR-20L/120 FOR IWH-1 AND CHRONOMITE MODEL #SR-30L/120 FOR IWH-2, OR APPROVED EQUIVALENT.
 - PROVIDE THERMOSTATIC CONTROL TO SUPPORT FULL RANGE OF FLOW AT STABLE SETPOINT AT TEMPERATURE RANGE INDICATED.
 - PROVIDE HIGH LIMIT TEMPERATURE SWITCH SET AT NO GREATER THAN 110°F.
 - UL LISTED.
 - MOUNTING HEIGHT PER MANUFACTURER.
 - PROVIDE NEMA 4X DISCONNECT OPTION, IF NECESSARY.

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.
COOG	CLEANOUT ON GRADE - PVC CLEANOUT WITH RAISED SQUARE PLUG INSTALLED UNDER ACCESS HOUSING AS DETAILED. ASME A112.6.3 EXTRA HEAVY DUTY TRAFFIC RATED.
WCO	WALL CLEANOUT - RAISED SQUARE OR RECESSED SQUARE PLUG WITH ROUND SMOOTH STAINLESS STEEL WALL ACCESS COVER.

NOTES:

- REFER TO MANUFACTURER'S DATA FOR INSTALLATION AND CONNECTION SIZES.

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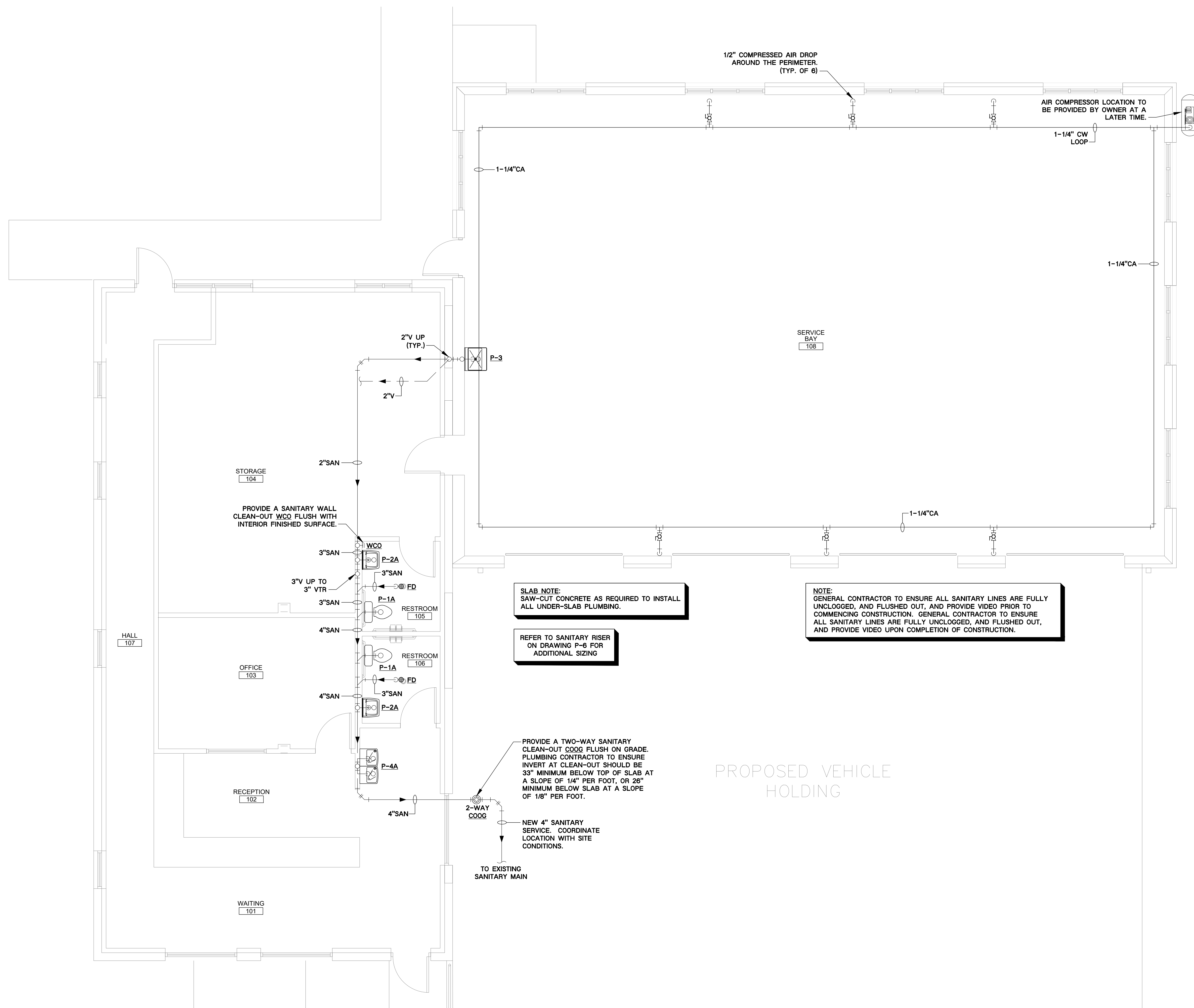
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SHEET
P-2

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1/2" COMPRESSED AIR DROP
AROUND THE PERIMETER.
(TYP. OF 6)

AIR COMPRESSOR LOCATION TO
BE PROVIDED BY OWNER AT A
LATER TIME.

1-1/4" CW
LOOP

1-1/4" CA

SERVICE
BAY
108

1-1/4" CA

STORAGE
104

PROVIDE A SANITARY WALL
CLEAN-OUT WCO FLUSH WITH
INTERIOR FINISHED SURFACE.

WCO
P-2A

3" SAN

3" V UP TO
3" VTR

3" SAN

4" SAN

4" SAN

4" SAN

HALL
107

OFFICE
103

RESTROOM
105

RESTROOM
106

RECEPTION
102

P-4A

4" SAN

WAITING
101

SLAB NOTE:
SAW-CUT CONCRETE AS REQUIRED TO INSTALL
ALL UNDER-SLAB PLUMBING.

REFER TO SANITARY RISER
ON DRAWING P-6 FOR
ADDITIONAL SIZING

NOTE:
GENERAL CONTRACTOR TO ENSURE ALL SANITARY LINES ARE FULLY
UNCLOGGED, AND FLUSHED OUT, AND PROVIDE VIDEO PRIOR TO
COMMENCING CONSTRUCTION. GENERAL CONTRACTOR TO ENSURE
ALL SANITARY LINES ARE FULLY UNCLOGGED, AND FLUSHED OUT,
AND PROVIDE VIDEO UPON COMPLETION OF CONSTRUCTION.

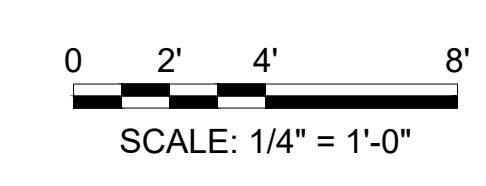
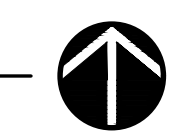
PROVIDE A TWO-WAY SANITARY
CLEAN-OUT COOG FLUSH ON GRADE.
PLUMBING CONTRACTOR TO ENSURE
INVERT AT CLEAN-OUT SHOULD BE
33" MINIMUM BELOW TOP OF SLAB AT
A SLOPE OF 1/4" PER FOOT, OR 26"
MINIMUM BELOW SLAB AT A SLOPE
OF 1/8" PER FOOT.

NEW 4" SANITARY
SERVICE. COORDINATE
LOCATION WITH SITE
CONDITIONS.

TO EXISTING
SANITARY MAIN

PROPOSED VEHICLE
HOLDING

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



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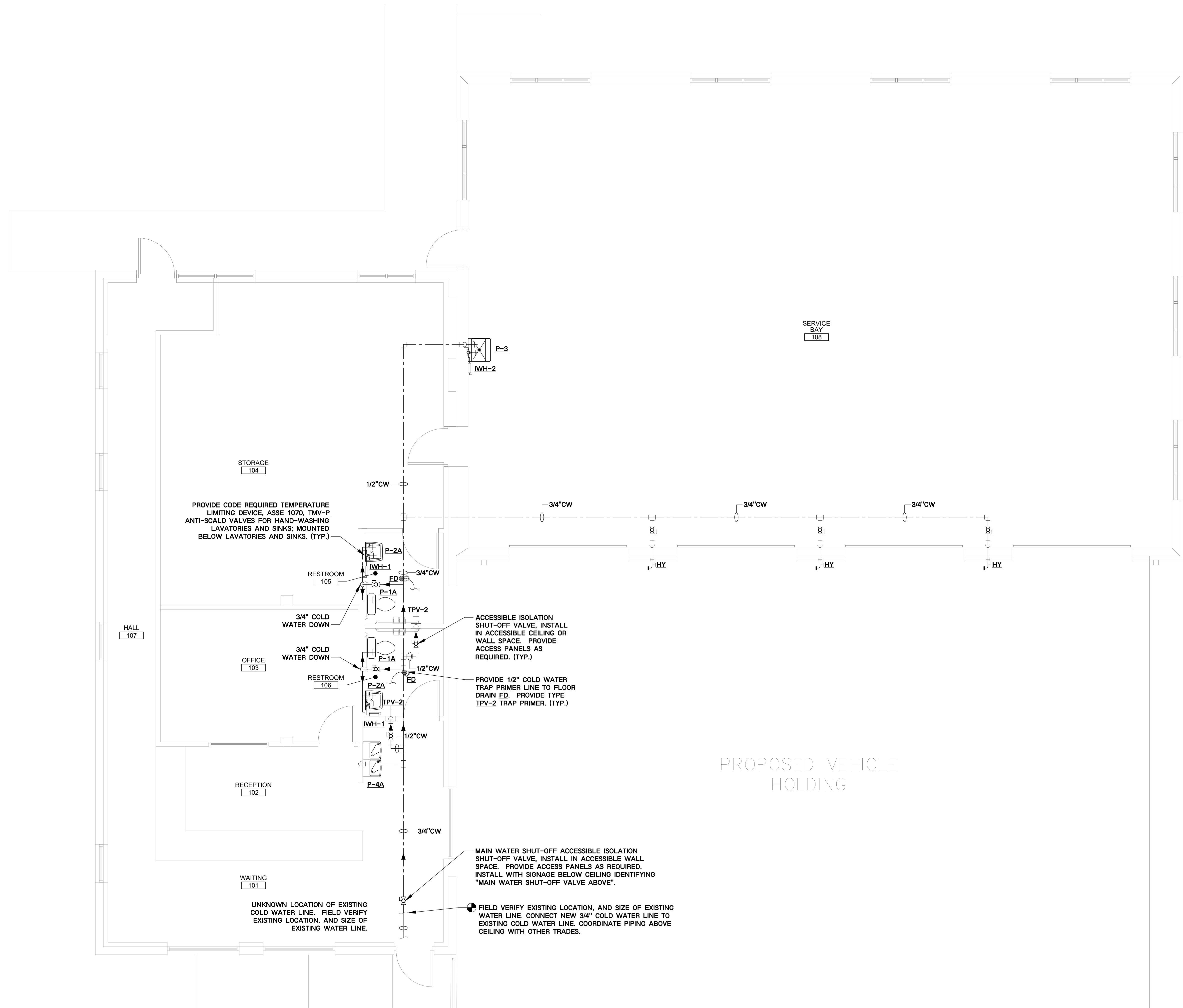
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P-3

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PROVIDE CODE REQUIRED TEMPERATURE LIMITING DEVICE, ASSE 1070, TMV-P ANTI-SCALD VALVES FOR HAND-WASHING LAVATORIES AND SINKS, MOUNTED BELOW LAVATORIES AND SINKS. (TYP.)

ACCESSIBLE ISOLATION SHUT-OFF VALVE. INSTALL IN ACCESSIBLE CEILING OR WALL SPACE. PROVIDE ACCESS PANELS AS REQUIRED. (TYP.)

PROVIDE 1/2" COLD WATER TRAP PRIMER LINE TO FLOOR DRAIN FD. PROVIDE TYPE TPV-2 TRAP PRIMER. (TYP.)

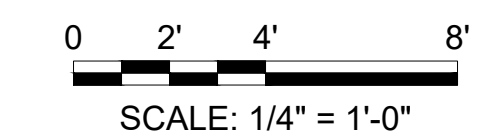
MAIN WATER SHUT-OFF ACCESSIBLE ISOLATION SHUT-OFF VALVE. INSTALL IN ACCESSIBLE WALL SPACE. PROVIDE ACCESS PANELS AS REQUIRED. INSTALL WITH SIGNAGE BELOW CEILING IDENTIFYING "MAIN WATER SHUT-OFF VALVE ABOVE".

UNKNOWN LOCATION OF EXISTING COLD WATER LINE. FIELD VERIFY EXISTING LOCATION, AND SIZE OF EXISTING WATER LINE.

FIELD VERIFY EXISTING LOCATION, AND SIZE OF EXISTING WATER LINE. CONNECT NEW 3/4" COLD WATER LINE TO EXISTING COLD WATER LINE. COORDINATE PIPING ABOVE CEILING WITH OTHER TRADES.

PROPOSED VEHICLE HOLDING

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



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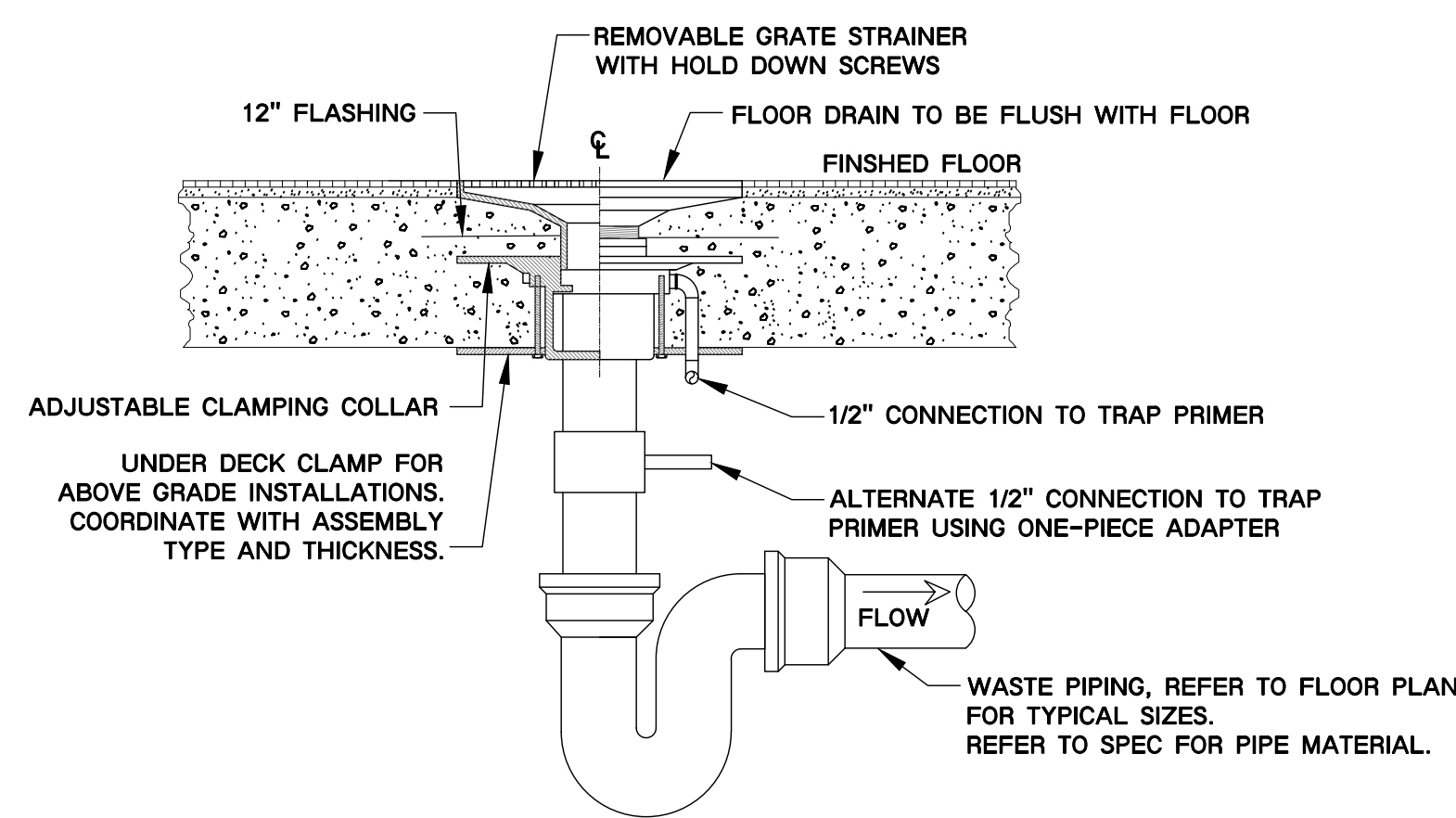
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SHEET TITLE: DOMESTIC WATER PLAN	
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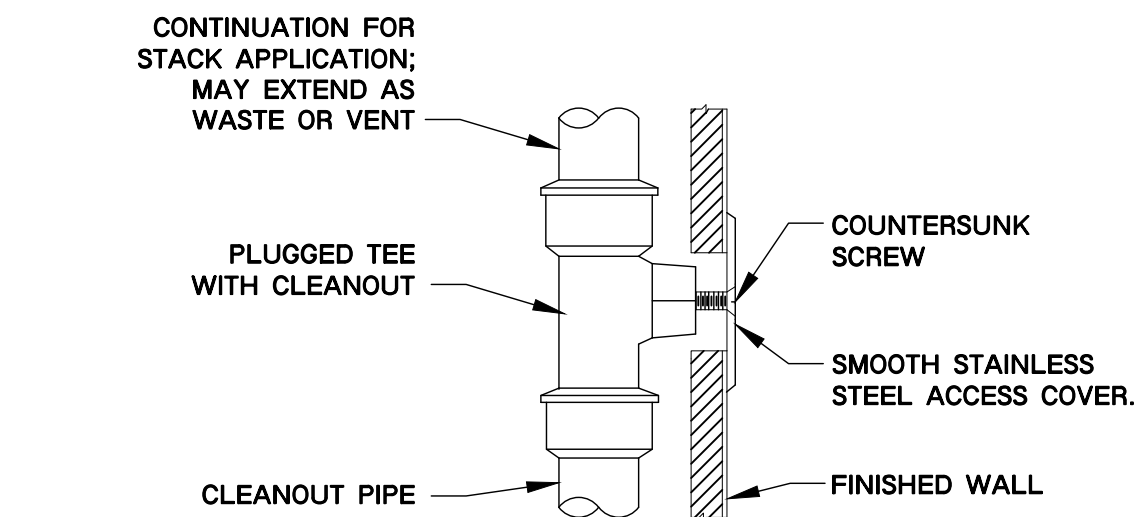
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P-4



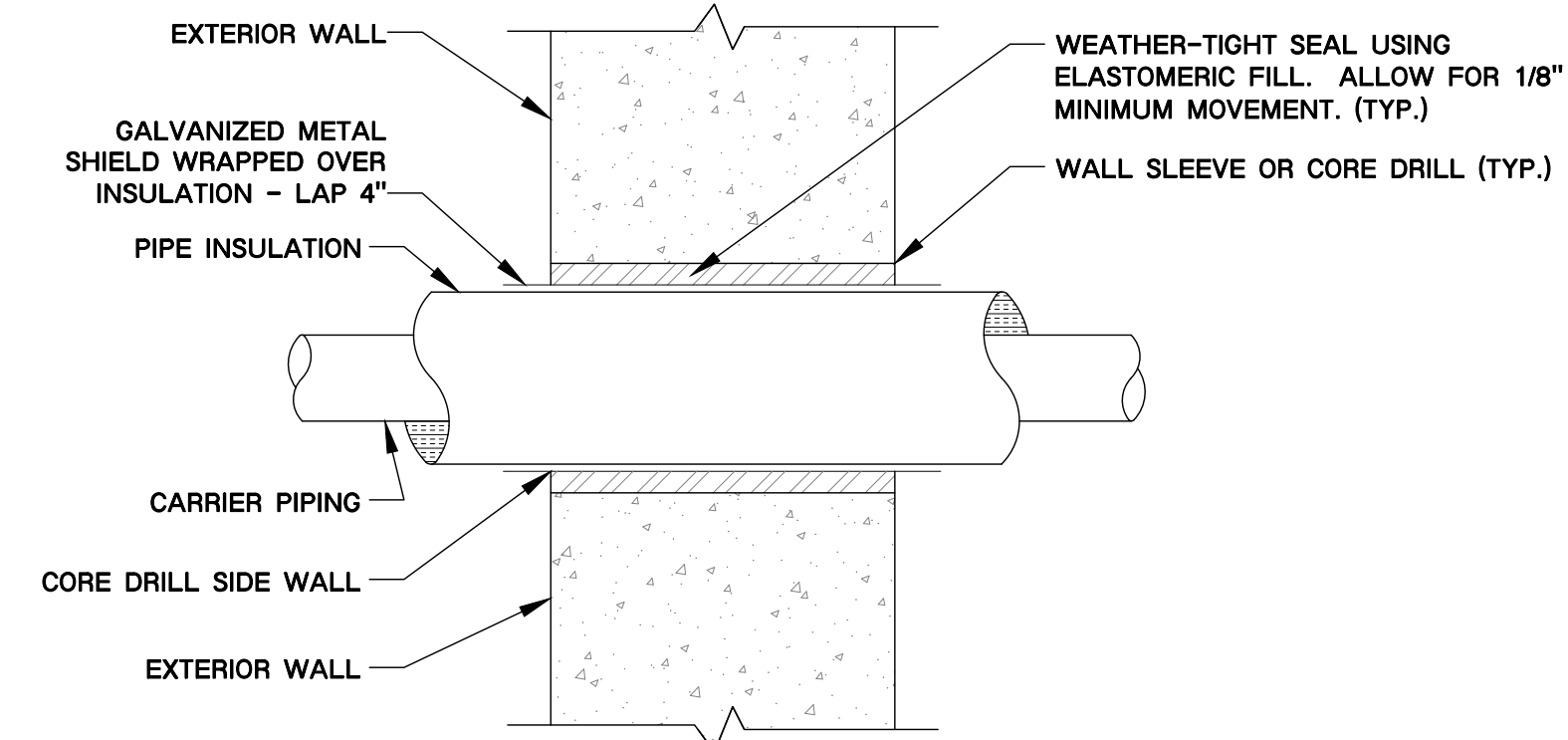
FLOOR DRAIN DETAIL (FD)

SCALE: N.T.S.



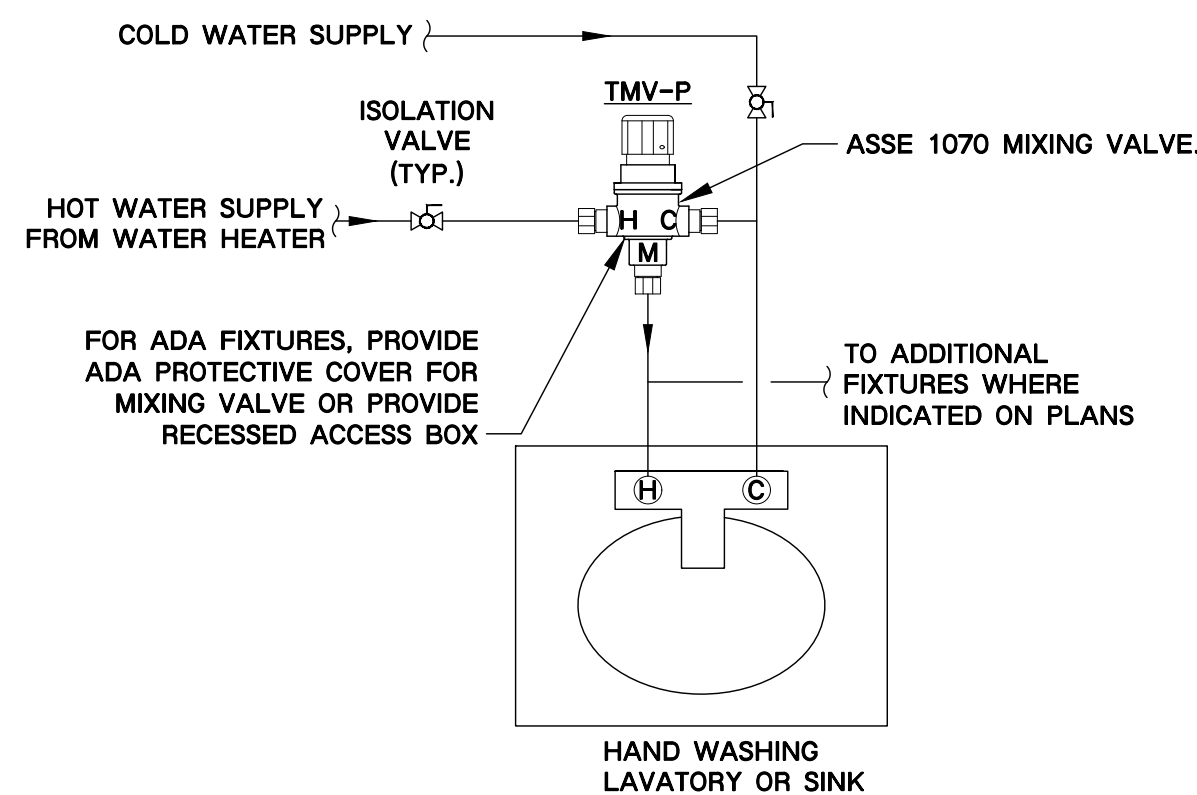
WALL CLEANOUT DETAIL (WCO)

SCALE: N.T.S.



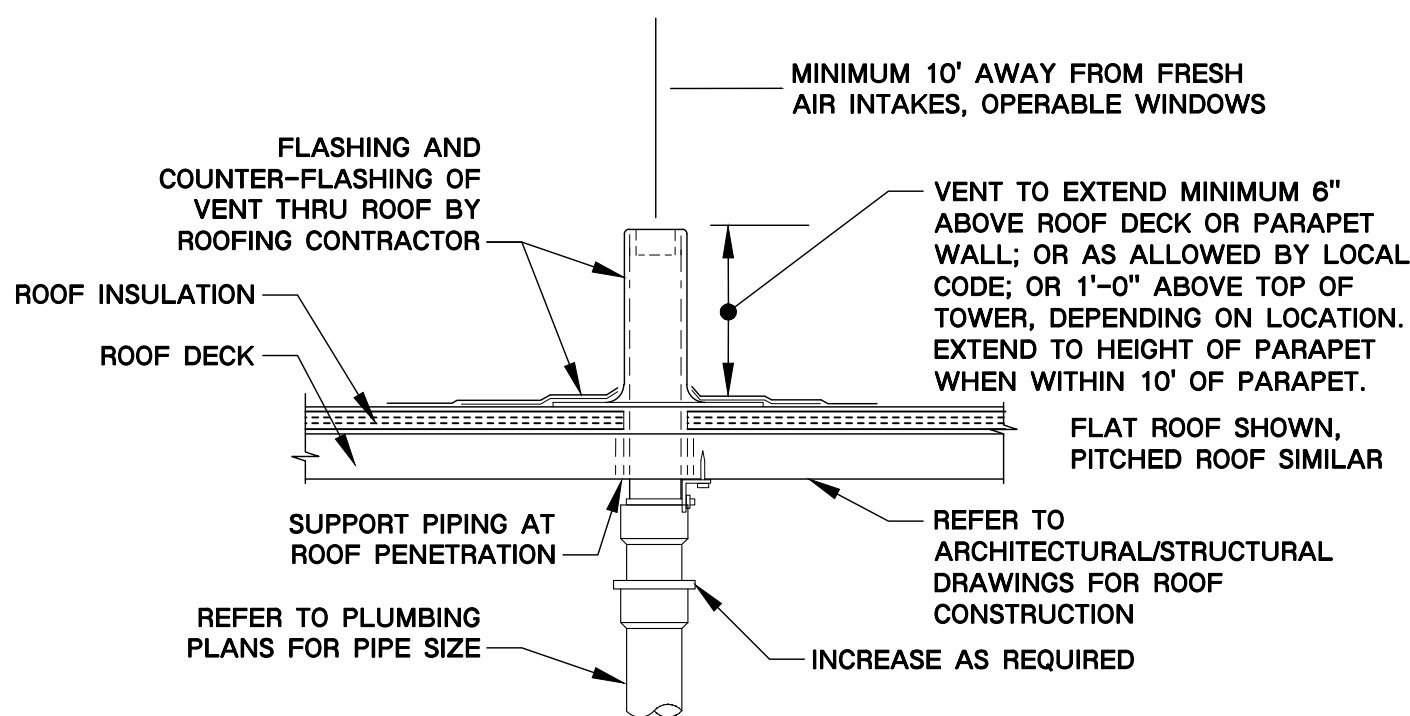
TYPICAL PIPE SLEEVE THRU WALL DETAIL

SCALE: N.T.S.



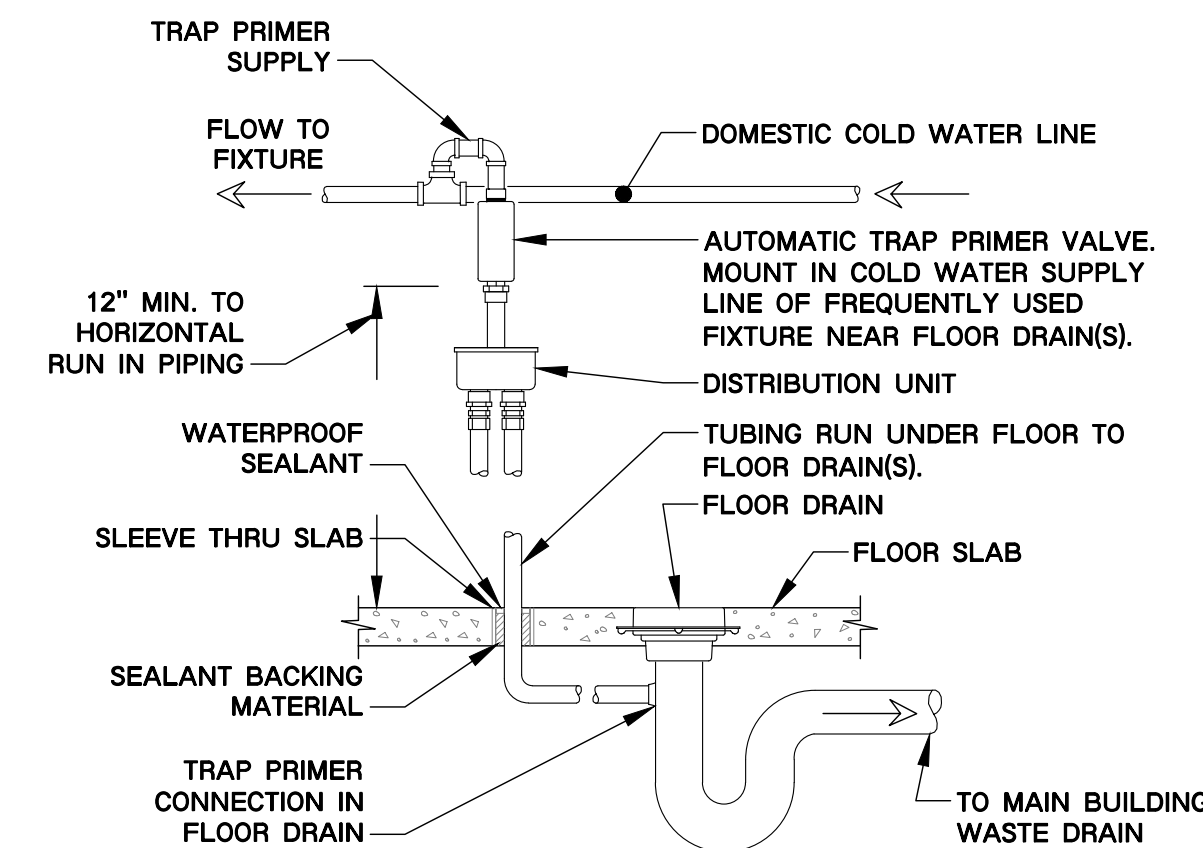
ANTI-SCALD DEVICE DETAIL (TMV-P)

SCALE: N.T.S.



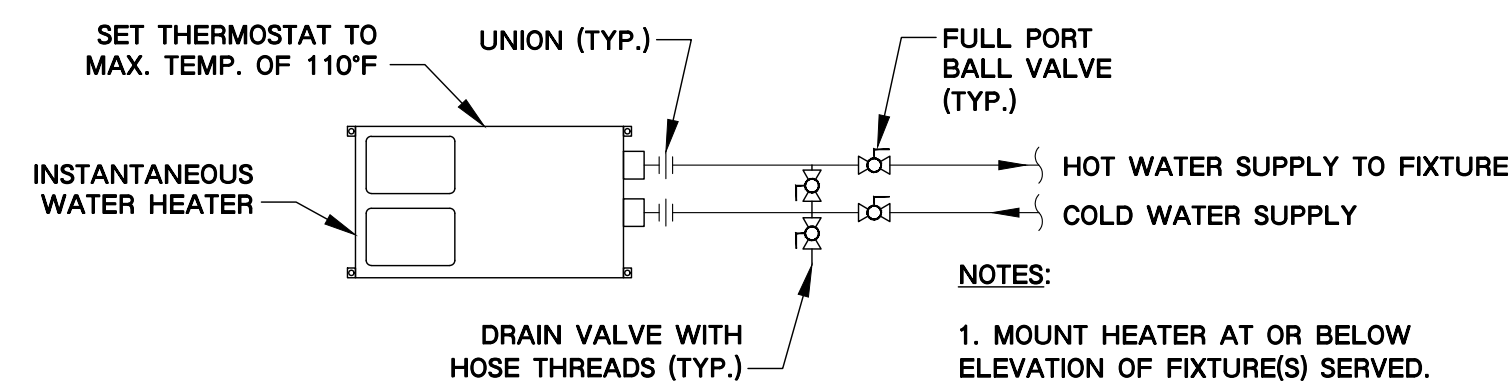
VENT THRU ROOF DETAIL (VTR)

SCALE: N.T.S.



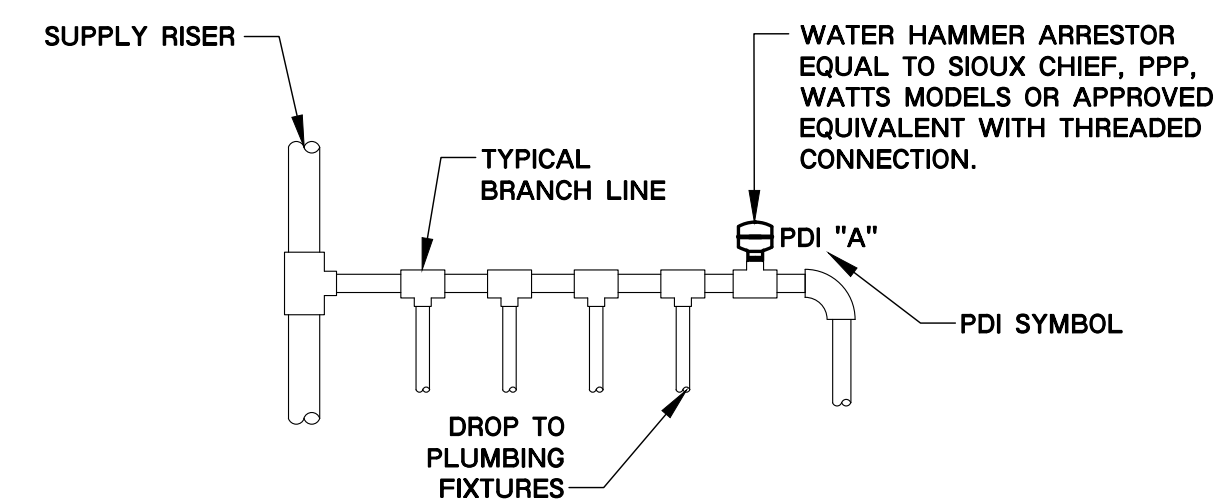
TRAP PRIMER DETAIL (TPV)

SCALE: N.T.S.



INSTANTANEOUS ELECTRIC WATER HEATER DETAIL (IWH)

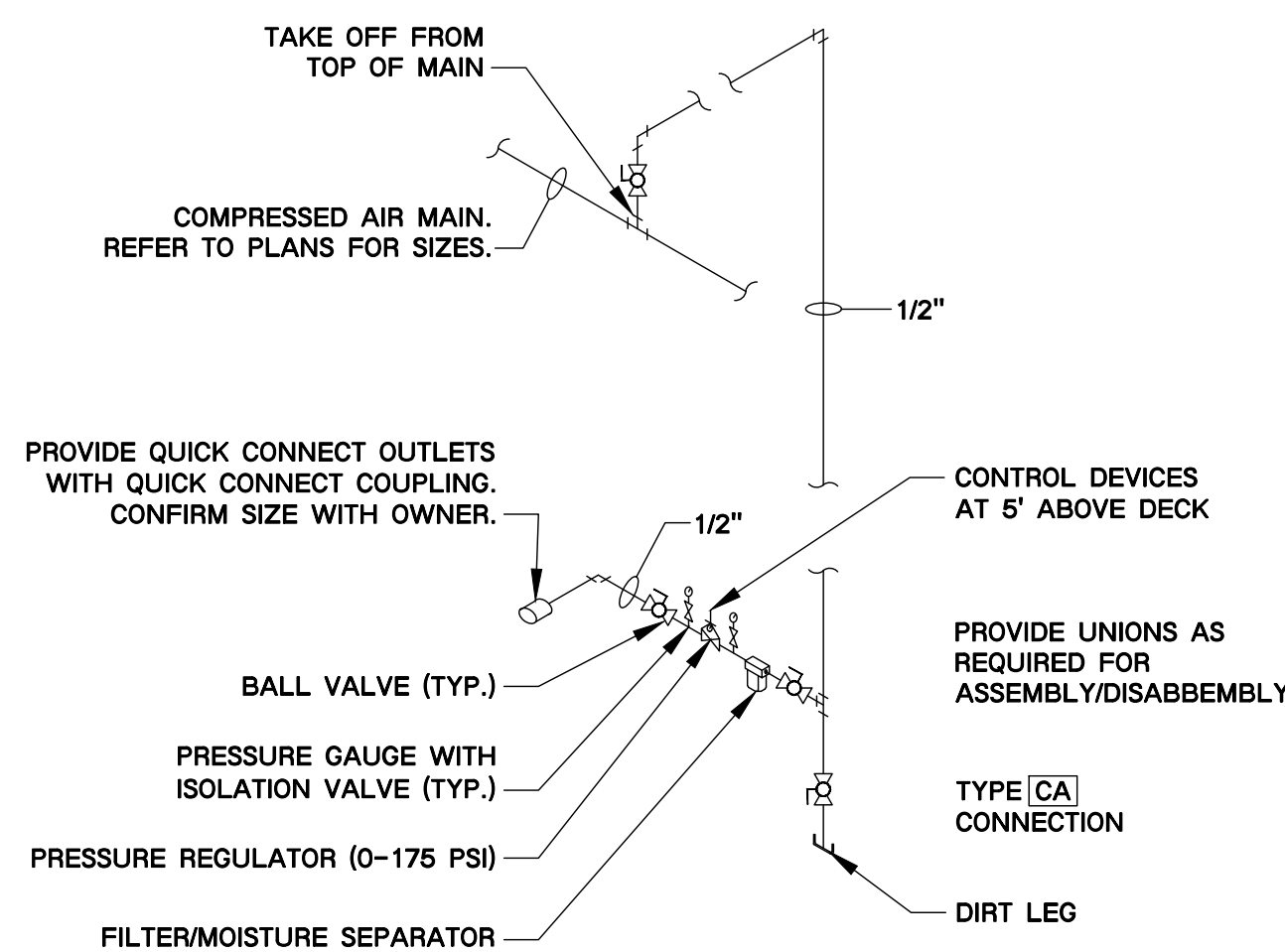
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WATER HAMMER ARRESTOR DETAIL

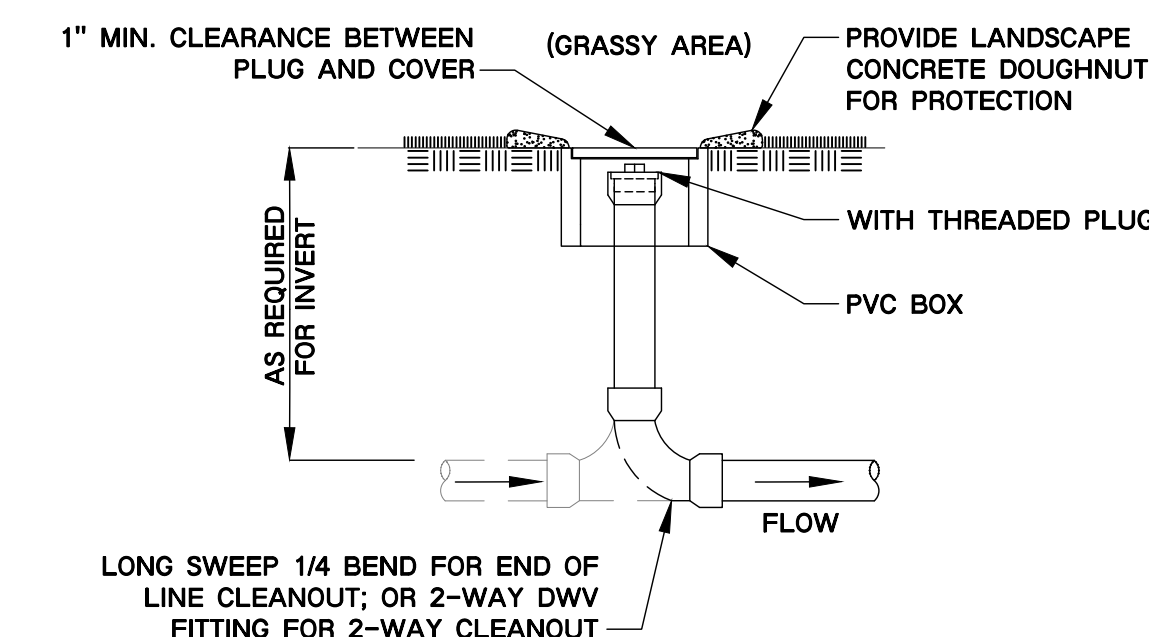
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- WATER HAMMER NOTES:**
- DO NOT PROVIDE AIR CHAMBERS.
 - PROVIDE A WATER HAMMER ARRESTOR ON EACH HOT AND COLD WATER DROP.
 - PREFERRED INSTALL WATER HAMMER ARRESTORS AT THE END OF BRANCH LINE BETWEEN THE LAST TWO FIXTURES SERVED.
 - ONE WATER HAMMER ARRESTOR PER 20 FEET OF LINE AND ANOTHER FOR BRANCHES OVER 20 FEET IN LENGTH.
 - 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.
 - 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.
 - WATER ARRESTOR SHOULD ALWAYS BE PLACED AS NEAR TO THE SOURCE OF SHOCK AS POSSIBLE.
 - ALL WATER ARRESTORS PROVIDED MUST MEET ASSE 1010 AND MANUFACTURER'S REQUIREMENTS. INSTALL PER PDI STANDARDS AND MANUFACTURER'S REQUIREMENTS.
 - INSTALL IN HORIZONTAL OR VERTICAL POSITIONS ONLY.
 - PROVIDE ACCESSIBILITY TO WATER HAMMER ARRESTORS WHERE REQUIRED BY LOCAL CODE.
 - PROVIDE WATER HAMMER ARRESTORS FOR ALL QUICK-CLOSING VALVES.



COMPRESSED AIR OUTLET DETAIL

SCALE: N.T.S.



EXTERIOR CLEANOUT ON GRADE DETAIL (COOG)

SCALE: N.T.S.

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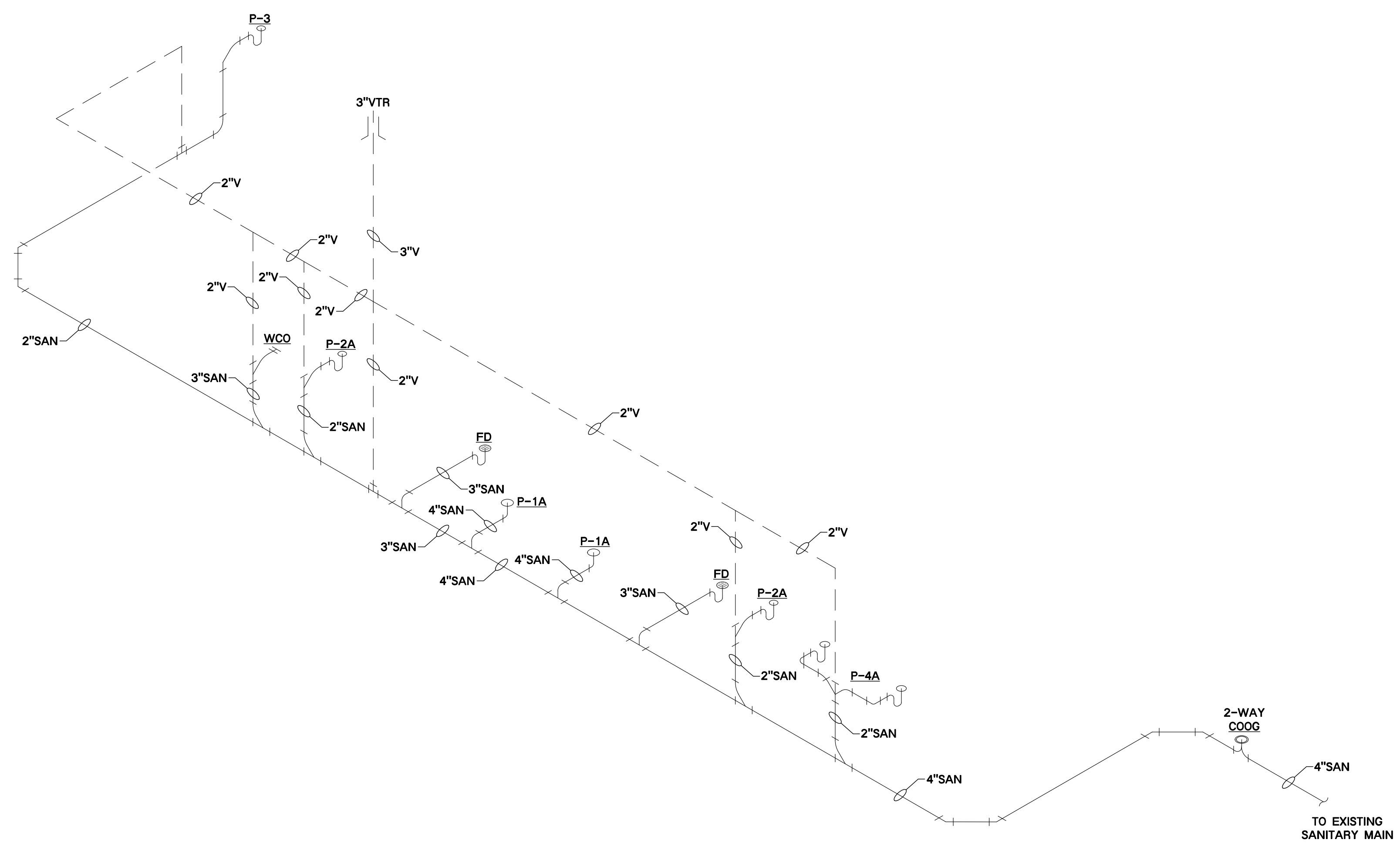
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SANITARY RISER DIAGRAM
SCALE: N.T.S.

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