

**COMMON ABBREVIATIONS:**

A.B.	ANCHOR BOLT
AFF/A.F.F.	ABOVE FINISH FLOOR
AHJ/A.H.J.	AUTHORITY HAVING JURISDICTION
ALUM.	ALUMINUM
BM.	BEAM
BOT.	BOTTOM
CAB.	CABINET
CL/CLOS.	CLOSET
CLC.	CELLING
COL.	COLUMN
CONC.	CONCRETE
CMU	CENTERLINE
CONT.	CONCRETE MASONRY UNIT
CORR.	CORRUGATED
CW.	COLD WATER
CTRL	CONTROL
DWG/DWGS	DRAWING/DRAWINGS
EIFS	EXTERIOR INSULATED FINISH
ELEC	ELECTRIC
ELEV	ELEVATION
E.W./EW	EACH WAY
EW/IE.W.C.	ELECTRIC WATER COOLER
EXIST/EXISTG	EXISTING
EXP./J.T./EJ	EXPANSION JOINT
FE/FE	FIRE EXTINGUISHER
FE/OF.E.C.	FIRE EXTINGUISHER IN CABINET
FF/F.F.	FINISH FLOOR
FF/F.F.E.	FINISH FLOOR ELEVATION
FOUND.	FOUNDATION
FTG	FOOTING
FRP	FIBER REINFORCED PANEL
GA	GAGE
GC/G.C.	GENERAL CONTRACTOR
GFI	GROUND FAULT INTERRUPT
GYP/BOARD	GYP/BOARD
HCH.C.	HANDICAP ITEM
HORIZ	HORIZONTAL
HVAC	HEATING VENTILATING and COOLING
HWH.W.	HOT WATER
HB/H.B.	HOSE BIBB
INSUL	INSULATION
JT	JOINT
JST/JOIST	JOIST
LAM	LAMINATE
LF	LINEAR FEET
LYR	LAYER
MAX	MAXIMUM
MET	METAL
MIN	MINIMUM
MFR	MANUFACTURER
MR/M.R.	MOISTURE RESISTANT
NTS/IN.T.S.	NOT TO SCALE
N.I.C.	NOT IN CONTRACT
NO.#	NUMBER
O.C.	ON CENTER
OPP HAND	OPPOSITE HAND
PEMB	PRE-ENGINEERED METAL BUILDING
PL	PLATE
PT	PRESSURE TREATED
PLUMB	PLUMBING
PREFIN.	PREFINISHED
RM	ROOM
R/R	RESTROOM
SAT	SUSPENDED ACOUSTICAL TILE assembly
SCHED.	SCHEDULE
SF/S.F.	STOREFRONT (or Square Foot in numerical contexts)
SIM.	SIMILAR
SS	STAINLESS STEEL
STL	STEEL
STRUCT	STRUCTURE or STRUCTURAL
TOP/O.F.	TOP OF FOOTING
TOS/T.O.S.	TOP OF STEEL
TOM/T.O.M.	TOP OF MASONRY
T/S	TUBE STEEL
T.S.	THICKEN SLAB
THRESH.	THRESHOLD
THK.	THICK
TYP.	TYPICAL
QTY.	QUANTITY
UL/U.L.	UNDERWRITERS LABORATORY
VERT.	VERTICAL
W/	WITH
WD	WOOD
W/O	WITHOUT

REFERENCE RELATED DOCUMENTS FOR ADDITIONAL ABBREVIATIONS USED:

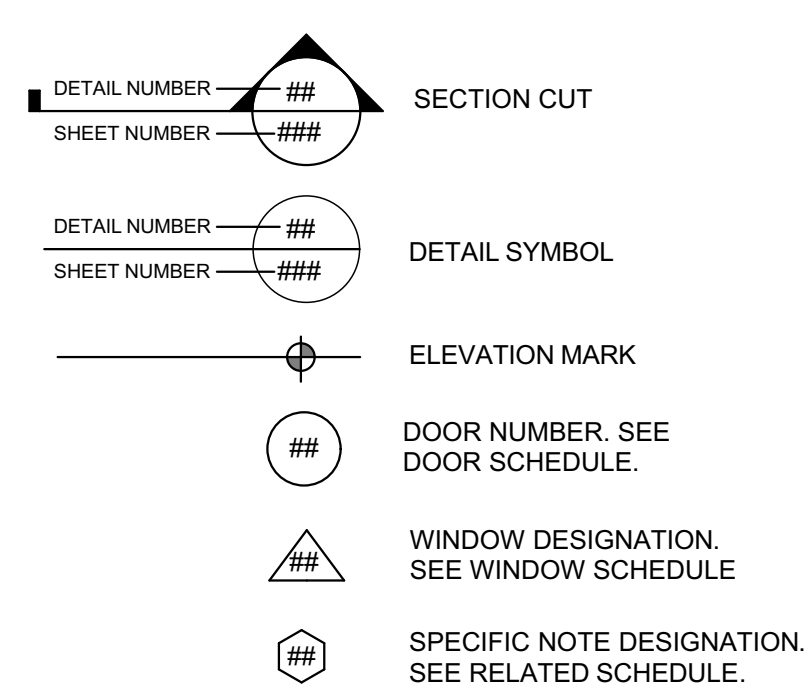
**General Note:**

These Documents and related content are diagrammatical in nature and are not intended to indicate Means and Methods required to properly complete the work. All work shall meet all applicable Codes and Regulations.

**Note To Owner and General Contractor:**

The Architect assumes that the permit plan review performed by the related Authorities Having Jurisdiction (AHJ) is thorough, complete, and accurate. Any changes requested by the AHJ which are made after Project Permitting shall be deemed a Change in Scope. The Architect/Engineers shall assume no responsibility for any costs related to such changes.

**COMMON SYMBOLS:**



**Utilities Protection**

Know what's below.  
Call before you dig.



**NORTH CAROLINA BUILDING CODES:**

The Contractor shall obtain copies of all related Building Codes for reference during construction. All Work shall meet the following building codes and regulations:

Codes: (with currently adopted amendments)	2018
NORTH CAROLINA Building Code	2018
NORTH CAROLINA Mechanical Code	2018
NORTH CAROLINA Plumbing Code	2018
NORTH CAROLINA Electrical Code	2017
NORTH CAROLINA Energy Code	2018
NORTH CAROLINA Gas Code	2018
NORTH CAROLINA Fire Prevention Code	2018
ICC ANSI A117.1	2009

Regulations:	Current Regulations
Occupational Safety and Health Administration (OSHA)	Current Standards
Building and Construction Trade STANDARDS	Current Assembly criteria
Underwriters Laboratory (UL)	

**NOTE:** All Work shall meet the criteria of the related Product's Manufacturer as needed to meet Code and as needed to provide a Warranted installed assembly. Any install of an assembly over, within or attached to a surface, substrate, or other product assembly shall indicate the installer's and the related manufacturer's acceptance of all conditions as being code compliant and suitable for a fully warranted assembly.



**NEW TIDAL WAVE AUTO SPA**

US 401  
ROLESVILLE,  
NC

OWNER:  
**TIDAL WAVE  
AUTO SPA**

EAST THOMPSON STREET  
THOMASTON GEORGIA  
30286

**24 HOUR CONTACT DURING  
CONSTRUCTION:**

SHALL BE THE BUILDING PERMIT HOLDER

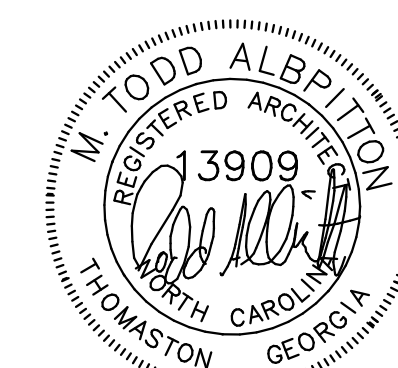
**PLANS ARE PREPARED BY:**  
M. Todd Albritton, Architect  
202 East Main Street  
Thomaston, Georgia 30286  
770-550-3275  
mtoddalbrittonarchitect@gmail.com

**Note to AHJ:**  
The Architect or his Engineers are  
Not Responsible for Construction  
Administration on this Project.

M. TODD ALBRITTON  
**ARCHITECT**

202 EAST MAIN STREET  
THOMASTON, GEORGIA  
30286  
PH 770-550-3275  
mtoddalbrittonarchitect@gmail.com

THESE DESIGNS AND DRAWINGS AS INSTRUMENTS OF SERVICE ARE THE PROPERTY OF THE ARCHITECT AND SHALL NOT BE COPIED OR REUSED IN ANY FORM WITHOUT THE WRITTEN PERMISSION OF THE ARCHITECT. THESE DRAWINGS SHALL BE USED ON THE ORIGINAL PROJECT LOCATION ONLY AND SHALL NOT BE REUSED AT OTHER LOCATIONS.



**NEW TIDAL WAVE  
AUTO SPA**  
US 401  
ROLESVILLE, NC

OWNER:  
**TIDAL WAVE AUTO  
SPA**

EAST THOMPSON STREET  
THOMASTON GEORGIA  
30286



**CODE ANALYSIS:**

Code Year/Type	See List of Applicable Codes herein.
Occupancy Classification	Storage/Business
Type Construction	Type V B
Fire Sprinklers	None
Fire Alarm	None
Building Height	14' eave
Building Stories	Single.

<b>Required Plumbing Fixtures:</b>	1 water closet, 1 lavatory required by code, 1 drinking fountain
<b>Provided Plumbing Fixtures:</b>	1 water closet, 1 lavatory required by code, 1 drinking fountain

**Description of Work:**

**Overview:**  
CONSTRUCT NEW CAR WASH FACILITY.

**Deferred Submittals:**

Prior to fabrication, shipping, or install of the following items, a set of detailed stamped/certified design shop drawings shall be provided by a state licensed Structural Engineer whom is either hired or employed by the related product Manufacturer, Supplier, Subcontractor, or Installer: (Do not undertake any related work until such shop drawings have been approved by the structural engineer of record and the local permitting authorities having jurisdiction. All work shall meet all related codes and regulations)

- Vacuum Canopies
- Pay Canopies
- Pre-Fabricated Wood Trusses

**Facility Signage:**

Facility Signage is not part of this permit submittal. Prior to fabrication, the signage vendor shall submit detailed shop drawings indicating signage types, quantities, sizes, colors, locations, structural support, structural foundations, and utility connections to the local permitting authorities for approval.

**Statement of Special Inspections:**

SEE STRUCTURAL DRAWINGS

**SHEET INDEX - ARCHITECTURAL**

ID	Sheet Name
1G0.1	COVER SHEET, SHEET INDEX, LEGEND
1G1.1	SPECIFICATIONS
1G1.2	SPECIFICATIONS
1LS.1	LIFE SAFETY
A1.1	FIRST FLOOR PLAN
A2.1	EXTERIOR ELEVATION
A3.1	DOOR & WINDOW SCHEDULE/DETAILS
A5.1	BUILDING SECTION
A5.2	BUILDING SECTION
A6.1	SECTIONS/DETAILS
A6.2	SECTIONS/DETAILS
A7.1	TRENCH DETAILS
A8.1	ROOF PLAN
AB.1	AUXILIARY BUILDINGS
AB.2	AUXILIARY BUILDINGS
AB.3	CANOPIES

**SHEET INDEX - CONSULTANTS**

ID	Sheet Name
STRUCTURAL	
S1.0	STRUCTURAL NOTES
S1.1	SPECIAL INSPECTIONS
S2.0	FOUNDATION/SLAB PLAN
S2.1	ROOF FRAMING
S2.2	TRUSS ELEVATIONS/DETAILS
S3.0	DETAILS/SECTIONS
S3.1	DETAILS/SECTIONS
PLUMBING	
P0.1	NOTES, LEGENDS, DETAILS
P2.1	SANITARY & DOMESTIC WATER PLAN, RISER
MECHANICAL	
M2.1	MECHANICAL PLAN, SCHEDULES, NOTES, LEGENDS
ELECTRICAL	
E0.1	RISER DIAGRAM, NOTES, SCHEDULES
E1.1	SITE POWER PLAN
E1.2	SITE PHOTOMETRIC PLAN
E2.1	LIGHTING AND POWER PANELS

CIVIL DRAWINGS ARE ISSUED  
BY OTHERS UNDER SEPARATE  
SUBMITTAL

MARK DATE DESCRIPTION

SHEET TITLE

COVER SHEET, SHEET  
INDEX, LEGEND

PROJECT DATE: xxxxxx

PROJECT NUMBER: ##

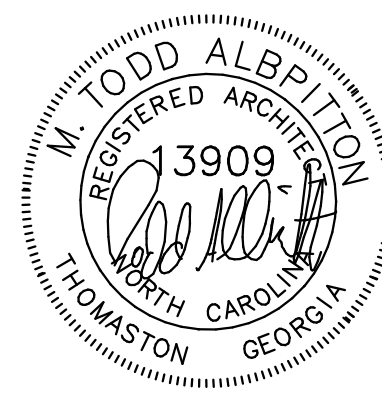
DRAWN BY: Name

1G0.1

M. TODD ALBRITTON ARCHITECT

202 EAST MAIN STREET THOMASTON, GEORGIA 30286 PH 770-550-3275 mtdalbritt@architect@gmail.com

THESE DESIGNS AND DRAWINGS AS INSTRUMENTS OF SERVICE ARE THE PROPERTY OF THE ARCHITECT AND SHALL NOT BE COPIED OR REUSED IN ANY FORM WITHOUT THE WRITTEN PERMISSION OF THE ARCHITECT. THESE DRAWINGS SHALL BE USED ON THE ORIGINAL PROJECT LOCATION ONLY AND SHALL NOT BE REUSED AT OTHER LOCATIONS.



NEW TIDAL WAVE AUTO SPA

US 401 ROLESVILLE, NC

TIDAL WAVE AUTO SPA

EAST THOMPSON STREET THOMASTON, GEORGIA 30286



Table with 3 columns: MARK, DATE, DESCRIPTION. Intended for project specifications tracking.

SHEET TITLE

SPECIFICATIONS

PROJECT DATE: xxxxxx

PROJECT NUMBER: ##

DRAWN BY: Name

1G1.1

Project Specifications:

01000 GENERAL

LICENSES

- 1. ALL CONTRACTORS, SUBCONTRACTORS, AND VENDORS SHALL BE LICENSED AS PER STATE LAWS TO PERFORM THE RELATED CONSTRUCTION WORK.

PERMITS AND FEES

- 1. UNLESS NOTED OTHERWISE ELSEWHERE, THE GENERAL CONTRACTOR IS RESPONSIBLE FOR SUBMITTING ALL PLANS AND DOCUMENTS TO PERMITTING AGENCIES AS NEEDED TO OBTAIN ALL PERMITS AND APPROVALS AS REQUIRED BY STATE LAW AS PER THE TYPE OF PROJECT BEING UNDERTAKEN.

01200 BUILDING DRAWINGS

- 1. DRAWINGS ARE INTENDED TO PROVIDE A BASIS FOR COMPLETION OF WORK SUITABLE FOR THE INTENDED USE OF THE OWNER. ANYTHING NOT EXPRESSLY SET FORTH BUT WHICH IS REASONABLY IMPLIED OR NECESSARY FOR PROPER PERFORMANCE OF THE PROJECT SHALL BE INCLUDED AND PROVIDED AT NO ADDITIONAL COSTS.

01600 CONSTRUCTION PROCEDURES

- 1. PROVIDE QUALIFIED "FULL TIME" ON-SITE SUPERVISION OF ALL WORK.

01900 CONSTRUCTION WASTE DISPOSAL

- 1. THE JOBSITE SHALL BE KEPT CLEAN AT ALL TIMES.

02000 DEMOLITION (IF REQUIRED)

- 1. PRIOR TO PRICING, FIELD VERIFY AND COORDINATE ALL CONDITIONS AND WORK REQUIRED.

01650 OWNER'S SPECIFIC PROCEDURAL REQUIREMENTS

- 1. MEET "OWNER SPECIFIC PROCEDURAL REQUIREMENTS" PRIOR TO PRICING, OBTAIN A WRITTEN COPY OF THE OWNER'S SPECIFIC REQUIREMENTS REGARDING CONTRACTOR WORK PROCEDURES AND REQUIREMENTS AT THEIR FACILITY.

01700 SPECIAL INSPECTIONS AND TESTING

- 1. PROVIDE "SPECIAL INSPECTIONS" AS REQUIRED BY STATE BUILDING CODES. SUCH INSPECTIONS SHALL BE PERFORMED BY A "THIRD PARTY" CERTIFIED SPECIAL INSPECTIONS AGENCY.

- 18. ANY EXISTING UTILITY ITEMS IN AREA OF DEMOLITION WHICH ARE NOT TO BE MAINTAINED IN WORKING ORDER OR REUSED SHALL BE REMOVED OUTSIDE THE DEMOLITION AREA AND TERMINATED AS PER CODE.

02100 EXISTING CONDITIONS

- 1. WHILE ATTEMPTS ARE MADE TO SHOW EXISTING CONDITIONS AT THIS PROJECT, SUCH PROJECT DATA SHOULD NOT BE CONSIDERED FINAL OR INCLUSIVE OF ALL EXISTING CONDITIONS PRESENT.

02200 SITE CONDITIONS

(REFERENCE SITE DRAWINGS BY LICENSED CIVIL ENGINEER FOR DATA RELATING TO SITE CONDITIONS AND SITE PREPARATION)

02300 TERMITE TREATMENT

- 1. PRETREAT ALL GRADE AREAS BENEATH FLOOR SLABS, AT FOUNDATIONS, AND AT CRAWLSPACES (IF PRESENT).

03000 CONCRETE WORK

(REFERENCE THIRD-PARTY FOUNDATION DESIGN DRAWINGS BY LICENSED STRUCTURAL ENGINEER) PRIOR TO START, COORDINATE LOCATIONS OF ALL ITEMS TO BE INSTALLED IN OR UNDER CONCRETE SLABS WITH ALL DRAWINGS AND OTHER RELATED TRADES. ALL ITEMS ARE NOT NECESSARILY SHOWN ON THE FOUNDATION PLAN.

04000 MASONRY WORK

- 1. UNITS TO BE CLEAN AND DRY AT INSTAL WITH NO DEFECTS.

8. MASONRY INSTALLATION

- a. PRIOR TO START, REVIEW ALL DRAWINGS TO COORDINATE LOCATIONS AND CONDITIONS OF OTHER ITEMS WHICH MAY MOUNT IN, ON, OR BEHIND MASONRY CONSTRUCTION INCLUDING: INSERTS, SUPPORTS, EQUIPMENT, BLOCK-OUTS, ANCHORS, REBAR, GROUT, MEP UTILITY ITEMS, FLASHING, ETC.

04300 STONE (MANUFACTURED)

- 1. BUCKS COUNTY LEDGESTONE BY CENTURIUM BUCKS COUNTY LEDGE FLATS + 510077/150-701-255

05000 STRUCTURAL STEEL

(REFERENCE ANY THIRD-PARTY STRUCTURAL STEEL DESIGN DRAWINGS BY LICENSED STRUCTURAL DESIGNER)

05500 MISCELLANEOUS STEEL

- 1. GENERAL MISCELLANEOUS STEEL NOTES

06005 WOOD FRAMING - DRAFTSTOPPING

- 1. PROVIDE IN NON-SPRINKLED BUILDINGS WITH COMBUSTIBLE ROOF, CEILING, OR ATTIC FRAMING.

06500 CABINETRY

- 1. SEE PLANS FOR LAYOUTS AND NOTES.

3/4" COMMERCIAL GRADE MELAMINE EXCEEDING ANSI A208.1 CLASS M2 CRITERIA IS AN APPROVED ALTERNATE TO PLASTIC LAMINATE ON PLYWOOD.

- 6. INSTALLATION: SECURE CABINETS TO CONCEALED LET-IN WOOD BLOCKING. PROVIDE APPROPRIATE MOUNTING FASTENERS AND METHODS FOR CONDITIONS PRESENT. INSTALL PLUMB, TRUE, LEVEL, AND SQUARE. ADJUST AT COMPLETION. INSTALL SHOE MOLD/BASE ALONG BOTTOM OF CABINETS IN ORDER TO HIDE SHIMS, GAPS, OR IRREGULARITIES. MOLDING TO MATCH CABINETS.

07200 INSULATION

- 1. INSULATE WALLS AROUND AND CEILING/ROOF ABOVE "CONDITIONED" SPACES.

07100 DAMPPROOFING, WATERPROOFING, VAPOR BARRIERS

- 1. PROVIDE DAMPPROOFING, WATERPROOFING, AND VAPOR BARRIERS WHERE SHOWN ON DRAWINGS AND AS INDICATED HEREIN.

07240 EXTERIOR INSULATED FINISH SYSTEM (E.I.F.S.)

- 1. PROVIDE STO SYSTEMS OR EQUAL.

- 7. DO NOT INSTALL ANY INSULATION UNTIL ALL DANGER OF MOISTURE INFILTRATION IS RESOLVED, EXTERIOR WALLS ARE ENCLOSED TO PREVENT MOISTURE INFILTRATION, AND EXTERIOR DOORS AND WINDOWS ARE INSTALLED.

- 5. INSULATION, FACINGS, AND VAPOR BARRIERS SHALL HAVE FLAME SPREAD INDEX < 25 AND SMOKE-DEVELOPED INDEX < 450 UNLESS SPECIFICALLY OTHERWISE ALLOWED BY LOCAL/STATE BUILDING CODES.

- 6. THERMAL INSULATION SHALL BE INSTALLED TO CREATE A CONTINUOUS BARRIER AROUND ENTIRE BUILDING ENVELOPE WITH NO UNSEALED OR NON-APPROVED PENETRATIONS.

- 7. INSTALL WALL INSULATION CONTINUOUS FROM BOTTOM OF WALL TO TOP. FORMING A CONTINUOUS INSULATION ENVELOPE FROM FLOOR TO CEILING OR ROOF INSULATION. DO NOT COMPRESS.

- 8. INSTALL ROOF/CEILING INSULATION CONTINUOUS FROM EXTERIOR INSULATED WALL TO WALL FORMING A CONTINUOUS INSULATION ENVELOPE. DO NOT COMPRESS.

- 9. PROVIDE ALL HANDERS, STRAPS, KNOTS, TIE-IN, MISCELLANEOUS FRAMING, AND FASTENERS AS REQUIRED TO PERMANENTLY SUPPORT INSULATION IN PLACE AS DIRECTED BY INSULATION MFR. AS PER CONDITIONS PRESENT.

- 10. PROVIDE ALL "VAPOR BARRIERS" AS RECOMMENDED BY STATE ENERGY CODE AND IMC AS PER CONDITIONS PRESENT. ASSEMBLIES SHALL BE PLENUM RATED WHERE LOCATED EXPOSED IN CONCEALED SPACES. FLAME SPREAD INDEX < 25 AND SMOKE-DEVELOPED INDEX < 450 UNLESS SPECIFICALLY OTHERWISE ALLOWED BY LOCAL/STATE BUILDING CODES.

- 11. PROVIDE INSULATION BARRIERS WHERE NEEDED TO MAINTAIN ADEQUATE UNOBSTRUCTED CROSS VENTILATION OF UNCONDITIONED SPACES.

- 12. SEAL ALL CRACKS AND JOINTS FOR PROPER WEATHER AND AIR SEAL.

- 13. ANY INSULATION BECOMING WET SHALL BE REPLACED WITH NEW OR REMEDIED AS PER WRITTEN INSTRUCTIONS FROM THE INSULATION MANUFACTURER. ALL DOCUMENTATION SHALL BE PROVIDED TO THE OWNER.

- 14. FIBERGLASS BATT INSULATION

- a. PRODUCTS: FIBERGLASS BATTS BY OWENS CORNING OR EQUAL.

- b. THICKNESS: AS INDICATED ON DRAWINGS OR AS REQUIRED TO MEET ENERGY CODE (USE WHICHEVER R VALUE OR THICKNESS IS GREATER)

- c. WIDTH - MATCH STUD, JOIST, OR RAFTER SPACING. FRICTION FIT - DO NOT COMPRESS

- d. FACING: VAPOR BARRIER MATERIAL AND LOCATION MEETING ENERGY CODE GUIDELINES AS PER RELATED INSTALL. SHALL BE PLENUM RATED WHERE EXPOSED IN CONCEALED SPACES

- e. PROPERTIES: NON-FLAMMABLE PERM RATING < 50; BUCKS AIR INFILTRATION; FLAME SPREAD RATING < 25; PBDE FREE; LOW EMITTING MATERIAL, FORMALDEHYDE FREE.

- f. INSTALLATION: INSTALL AND SUPPORT AS PER MANUFACTURER'S INSTRUCTIONS PER CONDITIONS PRESENT; DO NOT COMPRESS; DO NOT INSTALL ANY THERMAL INSULATION BATTS OVER SUSPENDED CEILING.

- 15. CLOSED CELL SPRAY INSULATION

- a. PRODUCTS: CERTAINTED "CERTA SPRAY" HIGH DENSITY POLYURETHANE OR EQUAL. ALL PRODUCTS TO BE APPROVED BY MANUFACTURER FOR RELATED INSTALL.

- b. THICKNESS: AS INDICATED ON DRAWINGS OR AS REQUIRED TO MEET ENERGY CODE (USE WHICHEVER R VALUE OR THICKNESS IS GREATER)

- c. PROVIDE "CERTACAT" IC LATEX BASED COATING AS PER INCREASED FIRE RESISTANCE.

- d. PROPERTIES: CLOSED CELL, R6 MINIMUM PER INCH OF THICKNESS, RIGID, 2 PBDE FREE, REFLECTS ALL WATER INFILTRATION, BLOCKS AIR FILTRATION, FLAME SPREAD RATING < 25, PBDE FREE, LOW EMITTING MATERIAL, FORMALDEHYDE FREE.

- e. INSTALLATION: COORDINATE WITH INSTALLATION OF OTHER TRADES IN AREA. INSTALL IN 2" LIFTS AS PER MANUFACTURER'S INSTRUCTIONS. CLEAN OVERSPRAY.

- 16. CORE FILL INSULATION

- a. PRODUCTS: CORE-FILL 500 FOAM INSULATION OR EQUAL. ALL PRODUCTS TO BE APPROVED BY MANUFACTURER FOR RELATED INSTALL.

- b. THICKNESS: FILL MASONRY CELLS.

- c. PROPERTIES: PERM RATING < 50; R1C RATING - 1 MINIMUM; R-13 MINIMUM TOTAL (PRODUCT TO PROVIDE 4.81 PER INCH); BLOCKS AIR FILTRATION; FLAME SPREAD RATING < 15; PBDE FREE; LOW EMITTING MATERIAL, FORMALDEHYDE FREE, NON-SHINK, MOLD RESISTANT.

- d. INSTALLATION: INSTALL AS PER MANUFACTURER'S INSTRUCTIONS PER CONDITIONS PRESENT. INSTALL AT ALL EXTERIOR CORN OR SPLICEFACE BLOCK. 8" WIDE AND WIDER WHICH IS PART OF THE BUILDING THERMAL ENVELOPE.

- 7. INSULATE WALLS AROUND AND CEILING/ROOF ABOVE "CONDITIONED" SPACES.

- 8. INSULATE WALLS AROUND AND CEILING/ROOF ABOVE "CONDITIONED" SPACES.

- 9. INSULATE WALLS AROUND AND CEILING/ROOF ABOVE "CONDITIONED" SPACES.

- SYSTEM TO INCLUDE: 1/2" MIN. APPROVED EXTERIOR SHEATHING MEETING ASTM C79 AND GA 753; VAPOR BARRIER; 1" MINIMUM POLYSTYRENE INSULATION (ATTACH AS RECOMMENDED BY MFR); FLASHINGS AS SUGGESTED BY MFR; INTERNAL VINYL TRACK/VENTING ASSEMBLY; POSITIVE DRAINAGE MEASURE, BASE COAT/ WATERPROOF AS SUGGESTED BY MFR; REINFORCING MESH; PRIMER; FINAL COATINGS.
- ALL PRODUCTS IN ASSEMBLY TO BE OF TYPE/GRADE/MFR AS SUGGESTED BY I.F.S. MFR.
- WHERE ANY CONDITIONS ARE ENCOUNTERED WHICH ARE NOT CLEARLY DESCRIBED IN MANUFACTURER'S PUBLISHED INSTRUCTIONS, THEN INSTALLER SHALL CONTACT MFR. OBTAIN DETAILED INSTRUCTIONS/PROCEDURES FOR CORRECT INSTALL.
- FLASHINGS: PROVIDE ALL FLASHINGS AS SUGGESTED BY MFR. LOCATE AND INSTALL AS PER MFR. INSTRUCTION. INSTALL I/JAMB AND SILL FLASHINGS PRIOR TO INSTALL OF DOORS AND WINDOWS. INSTALL HEAD FLASHINGS IMMEDIATELY AFTER INSTALL OF DOORS AND WINDOWS. FLASH ALL: WALL TOPS, EDGES, EDGES AT DISSIMILAR ITEMS, PENETRATIONS, ALONG WALL BASE, AND OTHER LOCATIONS AS RECOMMENDED BY ASSEMBLY MFR.. FLASHINGS SHALL DIRECT WATER/MOISTURE TO EXTERIOR NOT INTERIOR.
- SEALANTS/CAULKS: SEAL AND CAULK JOINTS AND EDGES AS PER MFR. RECOMMENDATIONS.
- EJ - PROVIDE EXPANSION JOINTS WHERE EIFS MEETS DISSIMILAR MATERIALS AND ALONG CHANGES IN SUBSTRATE MATERIAL. PROVIDE BACKER ROD AND SEAL AS PER MFR. RECOMMENDATIONS.
- WARRANTIES: PROVIDE MANUFACTURER'S STANDARD WARRANTIES.

**07310 SHINGLE ROOFING**

- ALL ROOFING WORK TO MEET INTERNATIONAL BUILDING CODE (IBC LATEST EDITION) CHAPTER 15.
- 30 YEAR FIBERGLASS CLASS "A" ARCHITECTURAL SHINGLES BY TAMKO OR EQUAL. OWNER TO SELECT PARTICULAR SHINGLE FROM MFR. STANDARD CHOICES.
- INSTALL OVER 30 FLET
- NO STAPLES TO BE USED.
- INSTALL IN ACCORDANCE WITH SHINGLE MANUFACTURER'S TYPICAL INSTRUCTIONS USING APPROVED FASTENERS AND METHODS.
- PROVIDE STARTER COURSES AND END COURSES AS PER SHINGLE MANUFACTURER'S INSTRUCTIONS.
- ALL SHINGLES SHALL BE INSTALLED IN ORDER TO PREVENT NON-MATCHING SHINGLE AREAS.
- PROVIDE 3 YEAR MANUFACTURER WARRANTY FOR LABOR AND MATERIALS.
- FINISH: STANDARD STRIATED. COLOR AS SELECTED BY OWNER. PROVIDE 30 YEAR MINIMUM WARRANTY.
- PROVIDE 30 YEAR MINIMUM WARRANTY FOR OWNER'S FUTURE USE.
- PROVIDE ALL FLASHINGS - SEE FLASHING SPECIFICATIONS FOR ADDITIONAL DATA
  - CONCEALED ROOF TO WALL INTERSECT FLASHING
  - KICK-OUT FLASHING AT ROOF EDGE AT ROOF/WALL INTER FLASHINGS
  - WHEN FLASHING TO MASONRY, PROVIDE 2" KICK-OUT FLASHING
  - FLASHING ASSEMBLY WITH SEALANT ALONG TOP/WALL
- INSTALL ALL ASSEMBLIES IN NEAT AND ORDERLY APPEARANCE WITH SMOOTH CUT EDGES AND TIGHT LAPS.
- RIDGE VENTS - 12" WIDE PERFORMED RIDGE VENT, TAMKO OR EQUAL SHINGLE OVER.
- BOOTS - PROVIDE WATER/TIGHT ASSEMBLY AT PIPE PENETRATIONS.
- CURBS - PROVIDE WATER/TIGHT ASSEMBLY AS PER RELATED ROOF MOUNTED EQUIPMENT.

**07400 METAL ROOF - R PNL**

- ALL ROOFING WORK SHALL MEET INTERNATIONAL BUILDING CODE (IBC LATEST EDITION) CHAPTER 15. MEET UL 580 TESTS FOR UPLIFT RESISTANCE OF ROOF ASSEMBLIES. MANUFACTURER SHALL MEET IAS AC 472 ACCREDITATION REQUIREMENTS. SYSTEM SHALL SUPPORT ALL SNOW, SEISMIC, AND WIND LOADING AS DICTATED BY IBC. SYSTEM SHALL WITHSTAND MAXIMUM DEFLECTION LIMITS AS PER IBC. SYSTEM SHALL BE WATER/TIGHT.
- PRODUCTS: PBR PANEL AS MFR'S BY DETAIL METALS, GRIFFIN, GA 1 1/2", 36" WIDE PANELS, RIBS AT 12" O.C. SEE STRUCTURAL DRAWINGS BY OTHERS FOR ROOF PANEL STRUCTURAL CRITERIA.
- FINISH: VALSPAR WEATHER X SILICONE POLYESTER PAINT SYSTEM. COLOR: AS SELECTED BY OWNER.
- FASTENERS - AS PER ROOF MANUFACTURER'S RECOMMENDATION PER INSTALL CONDITIONS PRESENT. EXPOSED FASTENERS TO MATCH METAL COLOR.
- INSTALLER - TO HAVE 5 YEARS RELATED EXPERIENCE. POSSESS ALL CERTIFICATIONS AS REQUIRED BY THE ROOFING MANUFACTURER AS NEEDED TO MEET WARRANTY CRITERIA.
- FURNISH, STORE, HANDLE, AND INSTALL ALL MATERIALS AS PER THE ROOFING MANUFACTURER'S PUBLISHED INSTRUCTIONS AS PER THE CONDITIONS PRESENT.
- ALL INSTALLATION TOOLS SHALL BE AS RECOMMENDED BY THE ROOFING MANUFACTURER.
- PROVIDE ALL MATERIALS AS RECOMMENDED BY THE PANEL MANUFACTURER INCLUDING: MATCHING FLASHINGS, TRIM, COPINGS, CLIPS, FASTENERS, SEALING, SCREWS, SEALERS, BOOTS, CLOSER STRIPS, GUTTER/DOWNSPOUTS AND OTHER ACCESSORIES AS REQUIRED FOR A COMPLETE WATER/TIGHT ROOFING ASSEMBLY.
- FLASHING AND TRIM MATERIAL AND PROFILES SHALL BE AS RECOMMENDED BY THE PANEL MANUFACTURER. REFERENCE FLASHING AND SHEET METAL SPECIFICATIONS FOR ADDITIONAL DATA.
- PROVIDE ADEQUATE SUBSTRATE/UNDERLAYMENT, MOISTURE BARRIER, AND PURLINS AS RECOMMENDED BY THE ROOFING MANUFACTURER AS PER CONDITION PRESENT. SUPPORT MEMBERS TO MEET ASTM C 754 AND ROOF MANUFACTURER'S WRITTEN INSTRUCTIONS.
- INSTALLATION OVER SUBSTRATE OR SUPPORT INDICATES ACCEPTANCE OF ALL SUBSTRATE CONDITIONS AS BEING SUITABLE FOR PROPER AND WARRANTED INSTALLATION.
- INSTALL ASSEMBLIES AS PER MANUFACTURER'S STANDARD INSTRUCTIONS AS PER CONDITIONS PRESENT.
- FLASH TO ADJACENT MATERIALS AND VENEERS WATER/TIGHT AS PER TRADE STANDARDS. TURN UP THE FLASHING BEHIND ADJACENT VENEERS IN ORDER TO DIVERT ANY DRAINAGE AT VENEER AWAY FROM THE BUILDING AND ONTO THE ROOF. COORDINATE FLASHING DETAILS WITH ADJACENT VENEER MANUFACTURER AND INSTALLER. DO NOT VOID ANY WARRANTIES INCLUDING THAT OF ADJACENT MATERIALS.
- CAULK ALONG ALL FLASHING EDGES WHERE SUCH MEETS ADJACENT MATERIALS.
- ALL PANELS TO BE ONE PIECE WITH NO PIECED JOINTS FROM ROOF EDGE TO RIDGE UNLESS SPECIFICALLY OTHERWISE RECOMMENDED BY THE ROOF PANEL MFR..
- ALL ROOF MOUNTED ITEMS (I.E. CURBS/BOOTS) SHALL BE COMPATIBLE WITH ROOF PANEL AND ROOF WARRANTY CRITERIA. COLOR MATCH TO ROOF PANEL COLOR WHERE EXPOSED TO VIEW.
- DAMAGED OR SCRATCHED PANELS SHALL BE REPLACED.
- MINOR SCRATCHES MAY BE TOUCHED-UP/REPAIRED AS PER ROOF PANEL MANUFACTURER'S INSTRUCTION AS LONG AS SUCH REPAIR IS NOT VISIBLE; OTHERWISE, REPLACE.
- PROVIDE 15 YEAR MINIMUM WARRANTY ON ROOFING ASSEMBLY.

**07405 METAL ROOF - PREFINISHED STANDING SEAM METAL**

- ALL ROOFING WORK TO MEET INTERNATIONAL BUILDING CODE (IBC LATEST EDITION) CHAPTER 15. MEET UL 580 TESTS FOR UPLIFT RESISTANCE OF ROOF ASSEMBLIES. MANUFACTURER SHALL MEET IAS AC 472 ACCREDITATION REQUIREMENTS. SYSTEM SHALL SUPPORT ALL SNOW, SEISMIC, AND WIND LOADING AS DICTATED BY IBC. SYSTEM SHALL WITHSTAND MAXIMUM DEFLECTION LIMITS AS PER IBC. SYSTEM SHALL BE WATER/TIGHT.
- PRODUCTS: 1 1/2" TALL VERTICAL RIB. 18" WIDE PANELS. SEE STRUCTURAL DRAWINGS BY OTHERS FOR ROOF PANEL STRUCTURAL CRITERIA.
- FINISH: STANDARD STRIATED. COLOR AS SELECTED BY OWNER. PROVIDE 30 YEAR MINIMUM WARRANTY.
- FASTENERS - TO BE CONCEALED.
- INSTALLER TO HAVE 5 YEARS RELATED EXPERIENCE. POSSESS ALL CERTIFICATIONS AS REQUIRED BY THE ROOFING MANUFACTURER AS NEEDED TO MEET WARRANTY CRITERIA.
- FURNISH, STORE, HANDLE AND INSTALL ALL MATERIALS AS PER THE ROOFING MANUFACTURER'S PUBLISHED INSTRUCTIONS AS PER THE CONDITIONS PRESENT. CONDITION PRESENT SYSTEM TO BE WATER/TIGHT.
- ALL TOOLS, SEAMERS, AND ROLLERS SHALL BE RECOMMENDED BY THE ROOFING MANUFACTURER.
- PROVIDE ALL MATCHING FLASHINGS, TRIM, COPINGS, CLIPS, FASTENERS, SEALING, SCREWS, SEALERS, ACCESSORIES, AND GUTTER/DOWNSPOUTS AS RECOMMENDED BY PANEL MANUFACTURER AS CONDITIONS PRESENT.
- SYSTEM TO BE WATER/TIGHT.

- PROVIDE ADEQUATE SUBSTRATE/UNDERLAYMENT, MOISTURE BARRIER, AND PURLINS AS RECOMMENDED BY THE ROOFING MANUFACTURER AS PER CONDITIONS PRESENT.
- SUPPORT MEMBERS TO MEET ASTM C 754 AND ROOF MANUFACTURER'S WRITTEN INSTRUCTIONS. INSTALLATION OVER SUBSTRATE OR SUPPORT INDICATES INSTALLERS ACCEPTANCE OF ALL SUBSTRATE CONDITIONS AS BEING SUITABLE FOR PROPER ROOF PANEL INSTALL.
- INSTALL AS PER MANUFACTURER'S STANDARD INSTRUCTIONS AS PER CONDITIONS PRESENT
- FLASH TO DISSIMILAR MATERIALS AND ADJACENT VENEERS WATER/TIGHT AS PER TRADE STANDARDS. TURN UP THE FLASHING BEHIND ADJACENT VENEERS IN ORDER TO DIVERT ANY DRAINAGE AT VENEER AWAY FROM THE BUILDING AND ONTO THE ROOF. COORDINATE FLASHING DETAILS WITH ADJACENT VENEER MANUFACTURER AND INSTALLER. DO NOT VOID ANY WARRANTIES INCLUDING THAT OF ADJACENT MATERIALS.
- CAULK ALONG ALL FLASHING EDGES WHERE SUCH MEETS DISSIMILAR MATERIALS.
- ALL PANELS TO BE ONE PIECE WITH NO PIECED JOINTS FROM ROOF EDGE TO RIDGE UNLESS SPECIFICALLY OTHERWISE RECOMMENDED BY THE PANEL MANUFACTURER.
- ALL ROOF MOUNTED ITEMS (I.E. CURBS/BOOTS) SHALL BE COMPATIBLE WITH ROOF PANEL AND ROOF WARRANTY CRITERIA. COLOR MATCH TO ROOF PANEL COLOR WHERE EXPOSED TO VIEW.
- PROVIDE 30 YEAR MINIMUM WARRANTY ON ROOF ASSEMBLY
- DAMAGED OR SCRATCHED PANELS SHALL BE REPLACED. MINOR SCRATCHES MAY BE TOUCHED UP AS RECOMMENDED BY MANUFACTURER AND COVERED BY WARRANTIES.

**07600 FLASHING AND SHEETMETAL**

- MEET SMACNA'S "ARCHITECTURAL SHEET METAL MANUAL" RECOMMENDATIONS FOR DETAILING, METAL THICKNESS, AND INSTALLATION AS PER CONDITIONS PRESENT.
- FABRICATE AND INSTALL ASSEMBLIES WITH LINES, CORNERS, AND ANGLES SHARP, TRUE, AND PLANE. SURFACES TO BE FREE OF WAVES, WARPS, BUCKLES. EXPOSED EDGES TO BE FOLDED BACK TO FORM 1/2" WIDE HEM ON SIDE CONCEALED FROM VIEW.
- ASSEMBLIES SHALL BE FREE FROM WATER LEAKAGE UNDER ALL WEATHER CONDITIONS.
- PROVIDE FOR EXPANSION AND CONTRACTION IN SHEET METAL WORK AS PER RECOMMENDATIONS OF SMACMA MANUAL AS PER CONDITIONS PRESENT.
- JOINTS/SEAMS SHALL BE LAPPED, EVENLY SPACED AND LOCATED IN INCONSPICUOUS LOCATIONS.
- FASTENERS TO BE WATER/TIGHT, CONCEALED UNLESS INDICATED OTHERWISE. FASTENERS WHERE EXPOSED TO VIEW SHALL BE WATER/TIGHT AND HAVE MATCHING FINISH.
- COLORS: AS SELECTED BY OWNER FROM MANUFACTURER'S STANDARD COLOR CHARTS.
- GUTTER AND DOWNSPOUTS
  - SHALL BE SIZED BY MANUFACTURER TO HANDLE ALL DRAINAGE CONDITIONS PRESENT AS PER I.P.C.
  - GUTTERS - 24 GAGE MINIMUM PRE-FINISHED METAL. SEAMLESS APPEARANCE. PROVIDE GUTTER CONTINUOUS ALONG ALL LOW LEAVES OF EXTERIOR BUILDING. INCLUDING THE FOLLOWING ITEMS IF PRESENT: ROOF RETURNS AND DORMERS.
  - DOWNSPOUTS - 22 GAGE MINIMUM. TO DIRECT WATER AWAY FROM BUILDING.
  - PROVIDE ALL MISG. FLASHINGS AND DIVERTERS NEEDED TO DIVERT DRAINAGE INTO GUTTER/DRAIN WITHOUT OVERTFLOW TO SURROUNDING SURFACES.
  - PROVIDE "KICK-OUT" FLASHING AT INTERSECTIONS OF ROOF EDGE AND VERTICAL SURFACE.
  - PROVIDE ADEQUATE FASTENERS, HANGERS AND SUPPORT.
  - WHERE INDICATED ON PLANS, PIPE ALL DOWNSPOUTS IN UNDERGROUND PVC PIPING ASSEMBLY TO OUTFLOW THRU CONCRETE CURB OR INTO NEAREST INLET. SIZE UNDERGROUND PIPING ASSEMBLY OTHERWISE. PROVIDE PRECAST CONCRETE SPLASH BLOCKS AT EACH DOWNSPOUT.
- ROOF FLASHINGS - PROVIDE WATER/TIGHT ASSEMBLIES OF MATERIALS, PROFILES, AND FINISHES AS PER ROOFING MANUFACTURER'S INSTRUCTIONS. COLORS TO MATCH SURROUNDING MATERIALS.
- SHEET METAL FLASHING AND TRIM
  - ALUMINUM SHEET: COMMERCIAL QUALITY, ASTM B209, 8063-T5 ALLOY, SHOP PRECOATED, 0.040" UP TO 4" WIDE, 0.050" UP TO 8" WIDE, 0.063" UP TO 16" WIDE, 0.080" UP TO 16" WIDE.
  - GALVANIZED STEEL: COMMERCIAL QUALITY, ASTM A653, GRADE A, G90 ZINC COATED, 24 GAGE UP TO 8" WIDE, 22 GAGE UP TO 10" WIDE, 20 GAGE UP TO 16" WIDE.

**07900 CAULK AND SEALANT**

- PROVIDE PRODUCTS APPROVED FOR RELATED MEETING ASTM C920 CLASS 25. ELONGATION PROPERTIES - 25% TO 50%.
- CAULK AROUND ALL DOORS, WINDOWS, LOUVERS, AND WALL PENETRATIONS.
- CAULK JOINT BETWEEN DISSIMILAR MATERIALS AS REQUIRED.
- CAULK AROUND ALL PIPE PENETRATIONS THRU WALLS, FLOOR, CEILING, AND ROOFS.
- PROVIDE BACKER ROD WHERE REQUIRED TO ADEQUATELY SUPPORT AND STRENGTHEN CAULK JOINT.
- EXPOSED CAULK SHALL BE OF COLOR TO MATCH ADJACENT MATERIALS.
- CAULK USED AT FIRE RATED ASSEMBLIES SHALL BE UL LISTED "FIRE RATED" CAULK.
- INSTALL AS PER CAULK MANUFACTURER'S INSTRUCTIONS AS PER CONDITIONS PRESENT. INSTALL IN NEAT SMOOTH LINES USING TOOLS AS RECOMMENDED BY CAULK MANUFACTURER.
- THE OWNER SHALL ASSUME RESPONSIBILITY FOR MAINTAINING CAULK JOINTS AFTER THE BUILDING WARRANTY PERIOD ENDS.
- COLORS: AS SELECTED BY OWNER FROM MANUFACTURER'S STANDARD CHARTS.

**08100 METAL DOORS AND FRAMES**

- SEE DOOR SCHEDULE AND FLOOR PLAN FOR DOOR SIZES, PROFILES, AND TYPES.
- DOORS - 18 GAGE GALVANIZED STEEL WITH 660 COATING. INSULATED CORE. FACTORY PRIMED.
- FRAMES - GALVANIZED STEEL WITH 660 COATING. FACTORY PRIMED.
  - WELDED FRAMES TO BE 14 GA. MIN. FOR OPENINGS OVER 4' AND 16 GA. FOR OPENINGS 4' WIDE AND LESS.
  - FACTORY PREP DOORS FOR HARDWARE.
  - PROVIDE ALL ANCHORS AND ACCESSORIES FOR PROPER INSTALL AND FUNCTION.
  - PROVIDE APPROVED LOUVERS WHERE INDICATED. LOUVERS TO BE LOCATED SO AS TO NOT CONFLICT WITH PROPER DOOR HARDWARE INSTALLATION AND FUNCTION.
  - DO NOT CUT, CORE, OR FASTEN TRIM TO ANY DOOR OR FRAME UNLESS APPROVED BY DOOR/FRAME MFR.
  - INSTALL AS PER DOOR AND FRAME MANUFACTURER'S INSTRUCTIONS. INSTALL PLUMB AND TRUE. ADJUST FOR PROPER FUNCTION.

**08400 PREFINISHED ALUMINUM STOREFRONT DOORS AND WINDOWS**

- SEE SCHEDULES AND ELEVATIONS, SIZES, PROFILES AND TYPES.
- FINAL LAYOUTS BASED ON SHOP DRAWINGS PREPARED BY MANUFACTURER AND APPROVED BY OWNER.
- FRAMES ASSEMBLIES:
  - MINIMUM ASSEMBLY - MODEL # SERIES 451 BY KAWNEER OR EQUAL.
  - PREFINISH ALUMINUM EXTRUDED 6063-T5 ALLOY TEMPERED.
  - SIZE: 2 1/8" X 4 1/2" MINIMUM. MINIMUM THICKNESS - 125"
  - UPSIZE SYSTEM AS REQUIRED TO MEET RELATED LOAD, SPAN, AND CODE CRITERIA.
  - FINISH: MANUFACTURER'S STANDARD MULTI-COAT FLUOROPOLYMER COATINGS. COLOR AS SELECTED BY OWNER.
- GLAZING
  - ASSEMBLY TO RESIST WIND LOADS AS REQUIRED BY STATE BUILDING CODE.
  - INSULATED GLAZING TO BE A MINIMUM OF 1" INSULATED LOW E.
  - UNINSULATED GLAZING TO BE 1/4" MINIMUM (UPSIZING AS NEEDED TO MEET RELATED LOAD, SPAN AND CODE CRITERIA)
  - SPANDREL GLAZING - SEE PLANS FOR LOCATIONS
  - PROVIDE SAFETY/TEMPERED GLAZING WHERE REQUIRED BY CODE.
  - IF FACTOR < SHGC COEFFICIENT - MEET MINIMUM REQUIREMENTS OF STATE ENERGY CODE.
- STOREFRONT DOOR ASSEMBLIES
  - MODEL # SERIES 350 MEDIUM STILE BY KAWNEER OR EQUAL.
  - SIZE- 3 1/2" VERT. STILES AND TOP RAIL. 10" BOTTOM RAIL.
  - SYSTEM TO BE COMPATIBLE WITH ANY SURROUNDING STOREFRONT FRAMING.
  - ASSEMBLY TO RESIST WIND LOADS OF 30 PSF.
  - GLAZING - INSULATED, LOW E, TEMPERED, TINTED.
  - HARDWARE - HINGES, HANDICAP ACCESSIBLE THRESHOLD, PANIC DEVICE, CLOSER, WEATHER STRIP, LOCKSET. SEE DOOR AND DOOR HARDWARE SCHEDULE ON PLANS FOR ADDITIONAL DATA.
  - IF FACTOR - MEET MINIMUM REQUIREMENTS OF STATE ENERGY CODE.

- AS PER TIDAL WAVE CORP. REQUEST, STOREFRONT UNITS LOCATED AT WASH TUNNEL SHALL HAVE BASE FLASHING INSTALLED IN REVERSE SO AS TO DIRECT ALL DRAINAGE TO WASH TUNNEL INTERIOR.
- INSTALL ALL ASSEMBLIES AS PER PRODUCT MANUFACTURER'S TYPICAL INSTRUCTIONS AS PER CONDITIONS PRESENT.
- PROVIDE MATCHING MISCELLANEOUS BREAK METAL TRIM AS PER WATER/TIGHT SEAL AT OPENING EDGES.
- COLORS: ALL COLORS ARE SELECTED BY OWNER FROM MANUFACTURER'S STANDARD SELECTIONS.
- CLEAN AND ADJUST AT COMPLETION.

**08700 DOOR HARDWARE**

- SEE DOOR SCHEDULE AND HARDWARE SCHEDULE ON PLANS FOR ADDITIONAL DATA.
- GRADE: LIGHT COMMERCIAL GRADE MINIMUM.
- PROVIDE ITEMS WHICH MEET FIRE CODE WHERE INSTALLED IN FIRE DOOR ASSEMBLY.
- ALL HARDWARE FINISHED TO MATCH. COORDINATE PRIOR TO ORDERING. THE FINISH SHALL BE SATIN CHROME PLATED APPEARANCE.
- ALL DOOR HARDWARE SHALL MEET ADA GUIDELINES. DOOR OPENING FORCE FOR PUSHING OR PULLING SHALL BE: INTERIOR DOOR: < 5 LBS., EXTERIOR DOOR: 8 LBS.
- HARDWARE MATERIALS
  - HINGES: BUTT HINGES, FULL MORTISE, 5 KNUCKLE, BRUSHED NICKEL. 3 PER DOOR. HINGES AT EXTERIOR DOORS TO HAVE NON-REMOVABLE PINS.
  - PANIC DEVICE: VON DUPRIN 98 SERIES OR EQUAL, TO DISENGAGE LOCK, BRUSHED NICKEL (PROVIDE MULLS WHERE NEEDED FOR PROPER FUNCTION)
  - LEVER SETS: SCHLAGE "A" SERIES - SATURN. LIGHT COMMERCIAL, BRUSHED NICKEL. LOCK CYLINDERS: MORTISED. STANDARD TRIM. KEY PER OWNER'S INSTRUCTION. PROVIDE "3" LABELED KEYS PER LOCK. CORES TO BE "BEST" COMPATIBLE.
  - PRIVACY SETS SHALL BE "PUSH/TURN" TYPE LOCKING. NOT "PUSH/TURN"
  - CLOSER: SURFACE MOUNTED; COMMERCIAL GRADE 1. ICM #1460 OR EQUAL. CLOSURES TO BE ADJUSTED TO ALLOW MAXIMUM EFFORT OF 5 LBS. TO OPEN. UNDER NO CIRCUMSTANCES SHALL CLOSER HINGES BE USED AS SUBSTITUTE FOR ACTUAL CLOSER. ON FIRE RATED DOORS OR HIGH USE DOORS SUCH AS LARGE PUB RESTROOMS, CLOSER TO BE ADJUSTED SUCH THAT FROM OPEN POSITION OF 70 DEGREES, THE DOOR WILL TAKE AT LEAST 3 SECONDS TO MOVE TO A POINT 3" SEPARATING THE LATCH AND THE LEADING EDGE OF THE DOOR.
  - STOPS: PROVIDE TRIMMO WALL OR FLOOR MTD. AS PER CONDITIONS PRESENT. BRUSHED NICKEL. STOPS AT HIGH USE DOORS SHALL BE FLOOR MOUNTED. PROVIDE (1) PER DOOR.
  - FLUSH BOLTS: AS REQUIRED PER PROPER DOOR FUNCTION AT PAIRS OF DOORS. FLUSH MOUNTED.
  - SILENCERS: STEELCRAFT OR EQUAL. PROVIDE TYPICAL AT ALL METAL AND WOOD FRAMES.
  - PUSH/PULL PLATES, KICK PLATES: MATCH FINISH OF OTHER HARDWARE. BALDWIN OR EQUAL.
  - DEADBOLTS: B SERIES WITH SCHLAGE KEYS WITH THUMB TURN ON INTERIOR SIDE.
  - STRIKES: AS PER LOCKSET MFR. SUGGESTION. PROVIDE DEEP STRIKES WHERE NEEDED TO PROTECT TRIM.
  - WEATHERSTRIPPING: PEMKO OR EQUAL. PROVIDE AT ALL EXTERIOR DOORS AND AT ALL INTERIOR DOORS WITH NON-CONDITIONED SPACE ON ONE SIDE.
  - THRESHOLDS: PEMKO MILL FINISH. SET IN BED OF SEALANT. THRESHOLDS WHEN INSTALLED SHALL BE 1/2" HIGH MAX AND SHALL MEET HANDICAP ACCESSIBILITY CODES.
  - SWEEPS: PEMKO OR EQUAL. MILL FINISH. (1) PER EXTERIOR DOOR. (1) PER INTERIOR DOOR WITH NON-CONDITIONED SPACE ON ONE SIDE.
  - SPECIAL SEALS: PROVIDE SPECIAL SEALS WHERE REQUIRED BY DOOR FUNCTION.

**10400 SIGNAGE**

- RESTROOM SIGNAGE:
  - UNIVERSAL "RESTROOM" SIGN: PROVIDE (1) PER UNisex TOILET ROOM DOOR. ROOM NAME, BRAILLE, AND HANDICAP PICTOGRAM.
- EMPLOYEE ONLY SIGNAGE:
  - SEE PLANS FOR LOCATION. WORDING "EMPLOYEES ONLY".
- INSTALLATION:
  - INSTALL AS PER THE STATE MINIMUM ADA STANDARD FOR ACCESSIBILITY.
  - ATTACH, FASTEN AND SUPPORT ALL SIGNAGE AS PER SIGNAGE MANUFACTURER'S INSTRUCTIONS AS PER CONDITIONS PRESENT.
  - PROVIDE ADEQUATE FASTENERS AND ADEQUATE SOLID CONCEALED BACKING SUPPORT.

**0925 ARCHITECTURAL WALL PANEL (AWP)**

- PRODUCTS - URESTONE PANEL ASSEMBLY BY REPLICATIONS UNLIMITED, HAZELWOOD, MO. 314-524-2000 OR 314-534-4040
- ALL PRODUCTS TO BE EXTERIOR GRADE.
- PRIOR TO START, OBTAIN MANUFACTURER'S STANDARD PRODUCT DATA AND DETAILED INSTALLATION INSTRUCTIONS.
- STONE AND HANDLE AS PER MANUFACTURER'S STANDARD INSTRUCTIONS AS PER CONDITIONS PRESENT.
- INSTALL AS PER MANUFACTURER'S STANDARD INSTRUCTIONS AS PER CONDITIONS PRESENT.
- PROVIDE ALL NECESSARY BACKER SUPPORTS, FASTENERS, ADHESIVES, FLASHINGS, CHANNEL/FLASH, AND CAULK AS PER MANUFACTURER'S INSTRUCTIONS AS PER CONDITIONS PRESENT.
- ANY WALL BEHIND OR BACKING SUPPORTING AWP THAT IS WITHIN 12" OF GRADE SHALL BE PRESSURE TREATED.
- PROVIDE MANUFACTURER'S "KEYED" CORNERS.
- ASSEMBLY TO ALLOW FOR WATER DRAINING.
- OWNER TO SELECT COLORS FROM MANUFACTURER'S STANDARD COLOR CHARTS. SEE PLANS.
- PRODUCTS BY PORTER PAINTS, SHERWIN WILLIAMS, BENJAMIN MOORE, ARE ACCEPTABLE.

**DEFERRED SUBMITTALS:**

- ENGINEERED SHOP DRAWINGS (INCLUDING FRAMING AND FOUNDATION DESIGNS) FOR: VAC CANOPIES, PREP CANOPIES, PRE-ENGINEERED TRUSSES, PRE-ENGINEERED METAL BUILDING ASSEMBLIES AND FACILITY SIGNAGE SHALL BE PREPARED AND CERTIFIED BY A LICENSED STRUCTURAL ENGINEER HIRED BY THE CONTRACTOR OR RELATED VENDOR. SUCH SHOP DRAWINGS SHALL BE SUBMITTED TO LOCAL AUTHORITIES FOR REVIEW AND APPROVAL PRIOR TO UNDERTAKING ANY RELATED WORK.

**FACILITY SIGNAGE: OBTAIN SEPARATE PERMIT FOR ALL EXTERIOR FACILITY SIGNAGE. CONTACT TIDAL WAVE CORP FOR COMPLETE SIGN PACKAGE DATA.**

**DEFFERED SUBMITTALS:**

- ENGINEERED SHOP DRAWINGS (INCLUDING FRAMING AND FOUNDATION DESIGNS) FOR: VAC CANOPIES, PREP CANOPIES, PRE-ENGINEERED TRUSSES, PRE-ENGINEERED METAL BUILDING ASSEMBLIES AND FACILITY SIGNAGE SHALL BE PREPARED AND CERTIFIED BY A LICENSED STRUCTURAL ENGINEER HIRED BY THE CONTRACTOR OR RELATED VENDOR. SUCH SHOP DRAWINGS SHALL BE SUBMITTED TO LOCAL AUTHORITIES FOR REVIEW AND APPROVAL PRIOR TO UNDERTAKING ANY RELATED WORK.

**SPECIAL INSPECTIONS:**

**OBTAIN ALL THRID PARTY SPECIAL INSPECTIONS AS INDICATED HEREIN. SEE STATEMENT OF SPECIAL INSPECTIONS ON STRUCTURAL DRAWINGS.**

**MODULAR UNITS (NOT PRESENT)**

**ANY MODULAR UNITS SHALL BE APPROVED BY STATE AND LOCAL AUTHORITIES PRIOR TO MANUFACTURING OR INSTALL OF ANY RELATED CONSTRUCTION.**

**CAR WASH EQUIPMENT:**

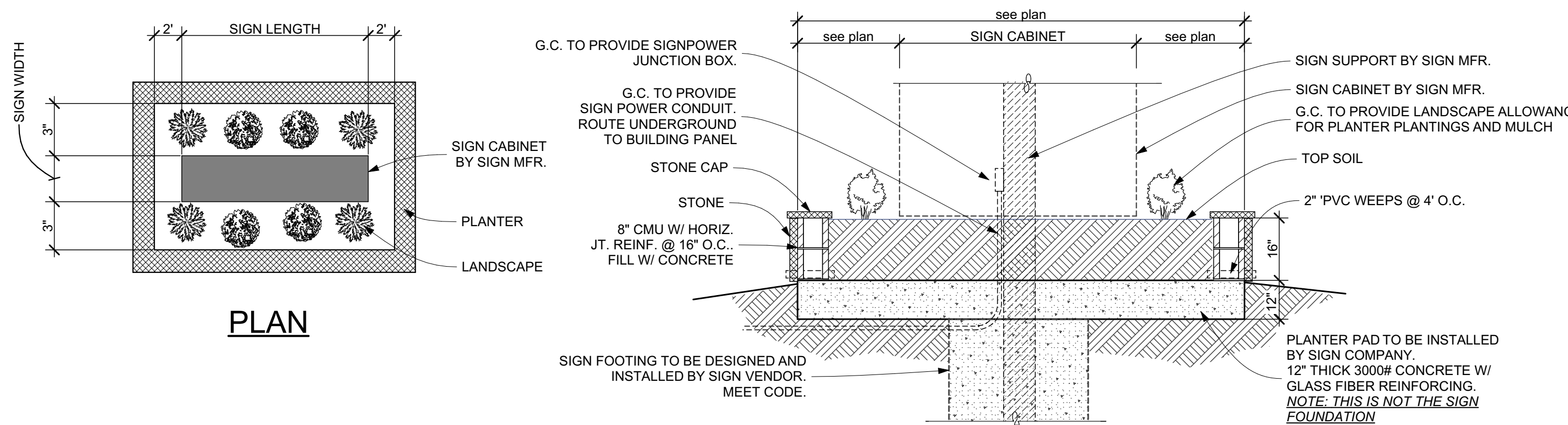
**OBTAIN FINAL CAR WASH EQUIPMENT DRAWINGS AND SPECIFICATIONS FROM CAR WASH EQUIPMENT VENDOR PRIOR TO START OF PROJECT. ANY CAR WASH EQUIPMENT UTILITY DATA AND ROUGH-IN LOCATIONS INDICATED ON THESE PLANS IS APPROXIMATE. THE CONTRACTOR SHALL VERIFY FINAL UTILITY DATA, ROUGH-INS AND INVERTS PRIOR TO START.**

**EQUIPMENT SCHEDULE:**

	EQUIPMENT ITEM	MAKE AND MODEL	REMARKS
	CIRCULATING FAN DAYTON 2MA10	24" COMMERCIAL WALL MOUNTED NON-OSILLATING AIR CIRCULATOR 5450 CFM - HIGH 3800 CFM - LOW	PROVIDE (1) AT WASH TUNNEL ENTRY AREA - DIRECT TO BLOW TOWARDS OPERATOR.
	CIRCULATING FAN GRANGER #49YV51	24" CORROSIVE RESISTANT INDUSTRIAL FAN	PROVIDE (2) AT PREP CANOPY. MOUNT AT PREP CANOPY COLUMNS. DIRECT TO BLOW TOWARDS ATTENDANT.
	CURVED MIRROR SE-KURE SCVO-36Z-PB	36" DIA. CIRCULAR OUDOOR CONVEX MIRROR 2 3/4" X 38" VIEW DISTANCE = 36", ANGLE = 160 DEGREES. ACRYLIC LENS.	PROVIDE (1) AT WASH TUNNEL ENTRY AREA - PROVIDE MOUNTING BRACKET.
			PROVIDE ALL STANDARD ACCESSORIES AND MOUNTING METHODS. INSTALL AS DIRECTED BY THE OWNER. COORDINATE WITH OTHER TRADES. SECURE TO ADEQUATE SUPPORTS AS PER EQUIPMENT MFR'S INSTRUCTIONS AS PER CONDITIONS PRESENT.

**TOILET ACCESSORIES:**

	ACCESSORY	MAKE AND MODEL	REMARKS
	TISSUE DISPENSER (T.D.)	SINGLE ROLE DISPENSER BRADLEY #505	PROVIDE 1 PER WATER CLOSET
	MIRROR	18"x30" BRADLEY #781-1830	PROVIDE 1 PER LAVATORY
	GRAB BAR 24" LONG	#812-001-24 BRADLEY	PROVIDE 1 VERTICAL AT SIDE WALL OF H.C. WATER CLOSET. SEE PLANS.
	GRAB BAR 36" LONG	#812-001-36 BRADLEY	PROVIDE 1 PER H.C. WATER CLOSET
	GRAB BAR 42" LONG	#812-001-42 BRADLEY	PROVIDE 1 PER H.C. WATER CLOSET
	HAND DRYER	AUTO HAND DRYER, EPOXY STEEL, 9840 LFM, BRADLEY AERIX WALL MTD.	PROVIDE 1 PER RESTROOM COORDINATE POWER WITH ELEC. SUB.

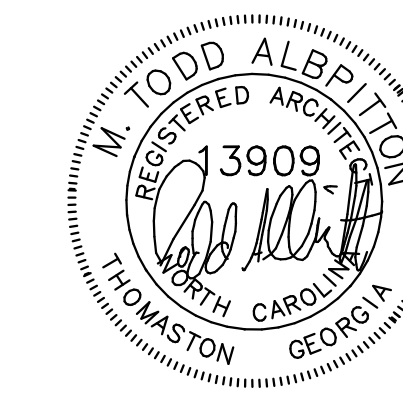


**PL DETAIL - SIGN PLANTER**  
NO SCALE SEE SIGN PACKAGE FOR LOCATION

**M. TODD ALBRITTON**  
**ARCHITECT**

202 EAST MAIN STREET  
THOMASTON, GEORGIA  
30286  
PH 770-550-3275  
mtoddalbr@earthlink.net

THESE DESIGNS AND DRAWINGS ARE INSTRUMENTS OF SERVICE ARE THE PROPERTY OF THE ARCHITECT AND SHALL NOT BE COPIED OR REUSED IN ANY FORM WITHOUT THE WRITTEN PERMISSION OF THE ARCHITECT.



**NEW TIDAL WAVE**  
**AUTO SPA**  
US 401  
ROLESVILLE, NC

OWNER:  
**TIDAL WAVE AUTO SPA**  
EAST THOMPSON STREET  
THOMASTON, GEORGIA  
30286

**TIDAL WAVE**



MARK	DATE	DESCRIPTION

**SHEET TITLE**

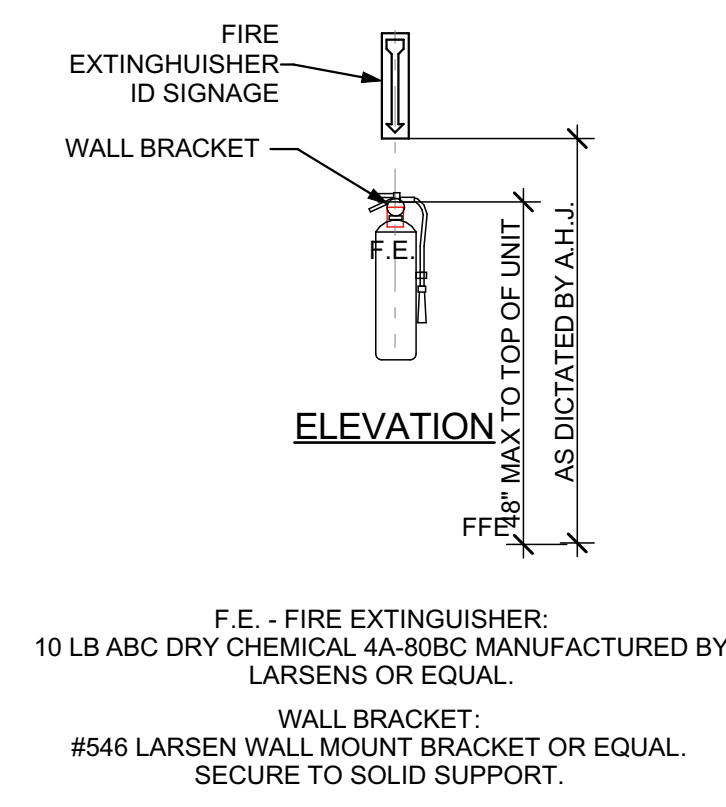
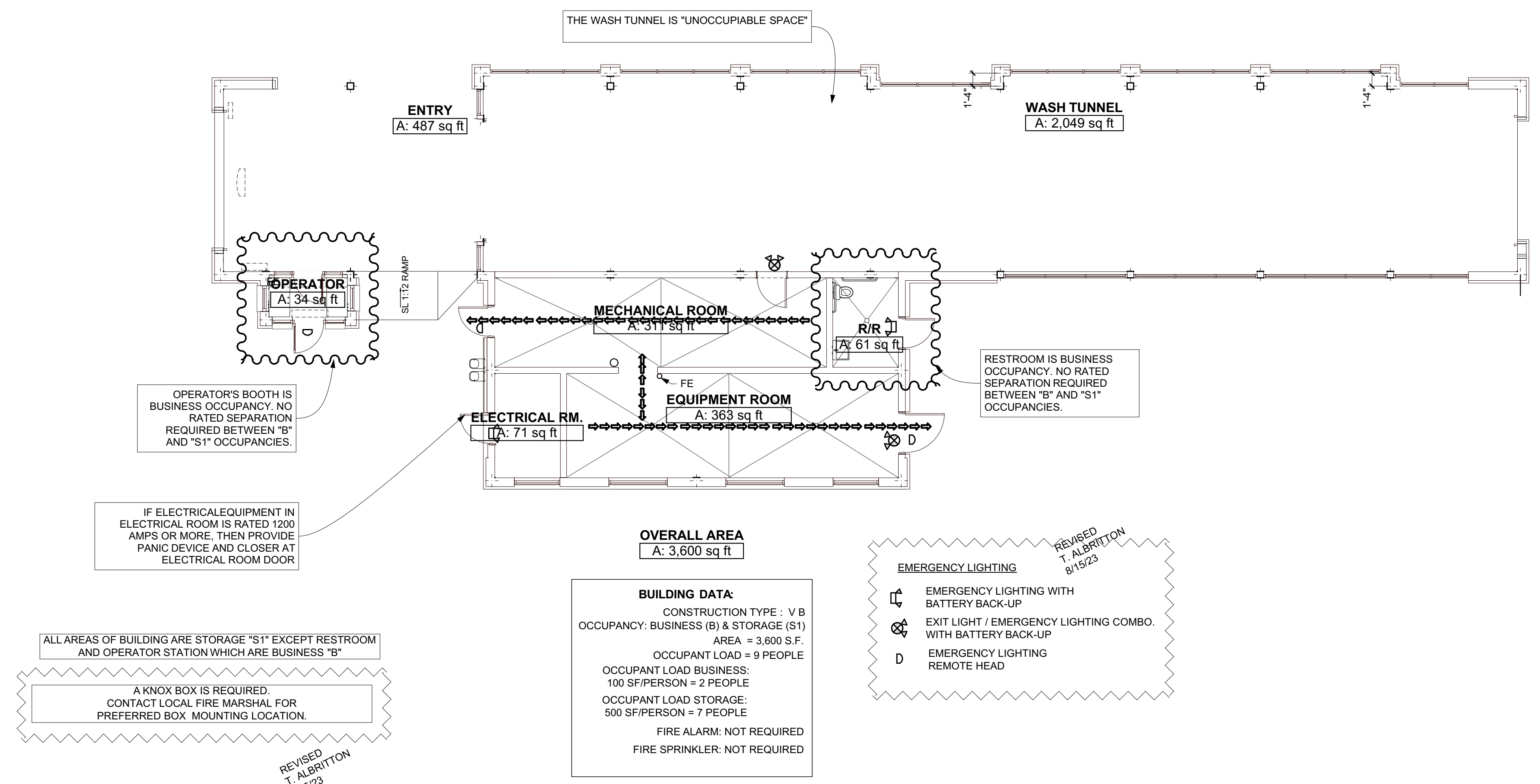
**SPECIFICATIONS**

PROJECT DATE: xxxxx

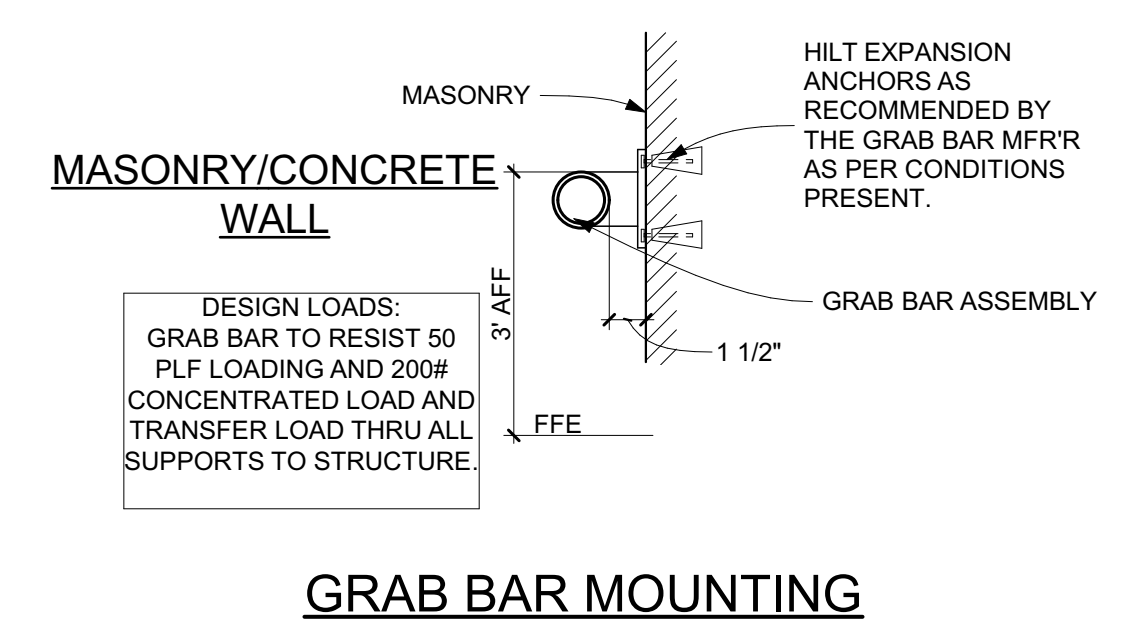
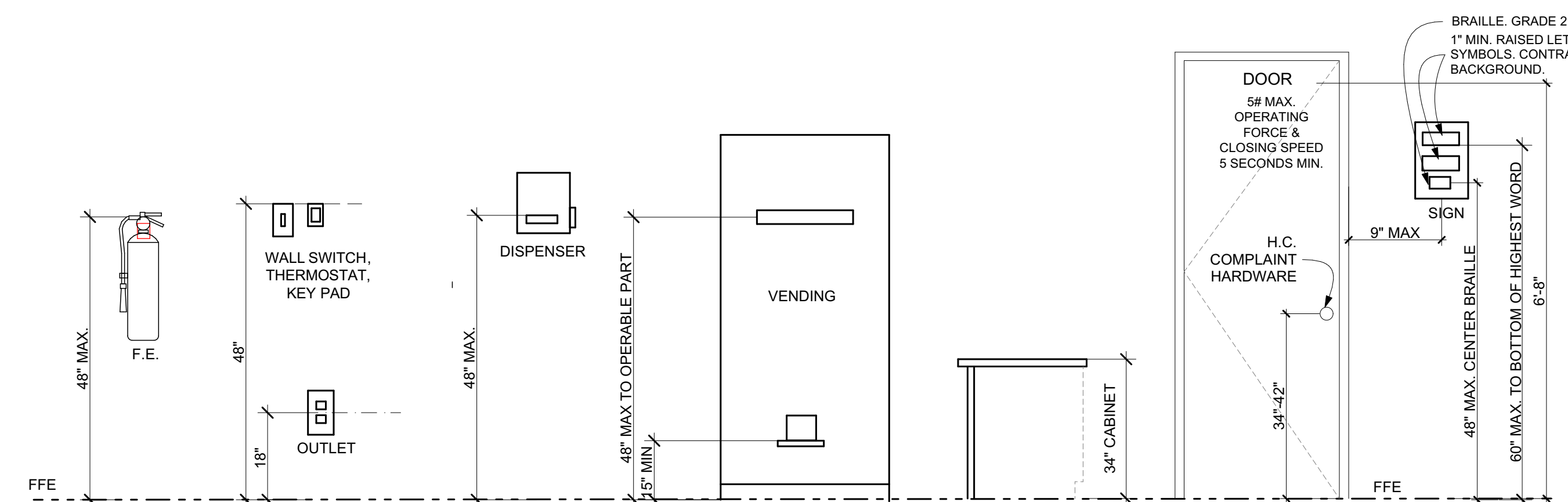
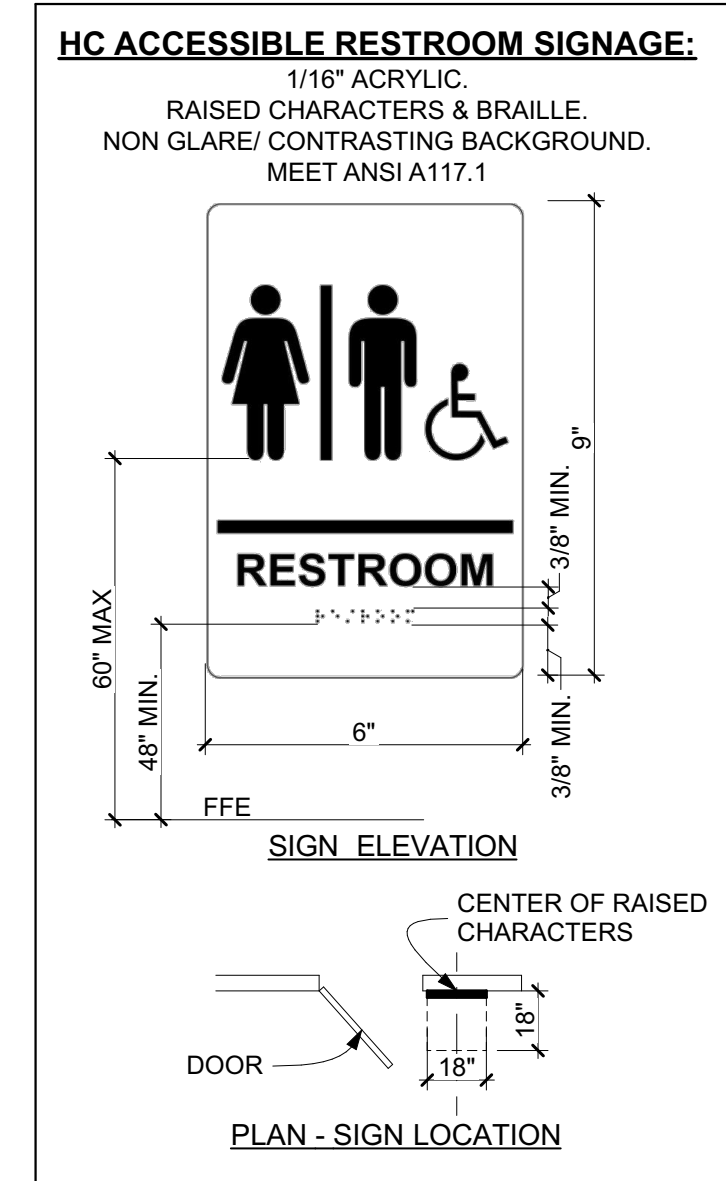
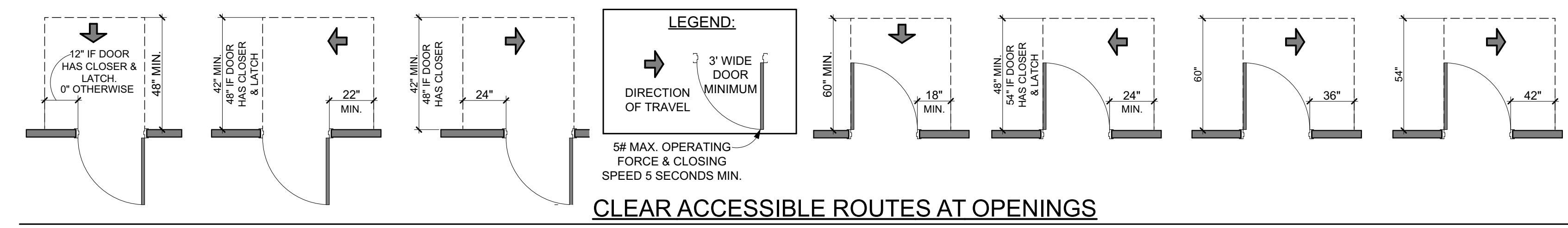
PROJECT NUMBER: ##

DRAWN BY: Name

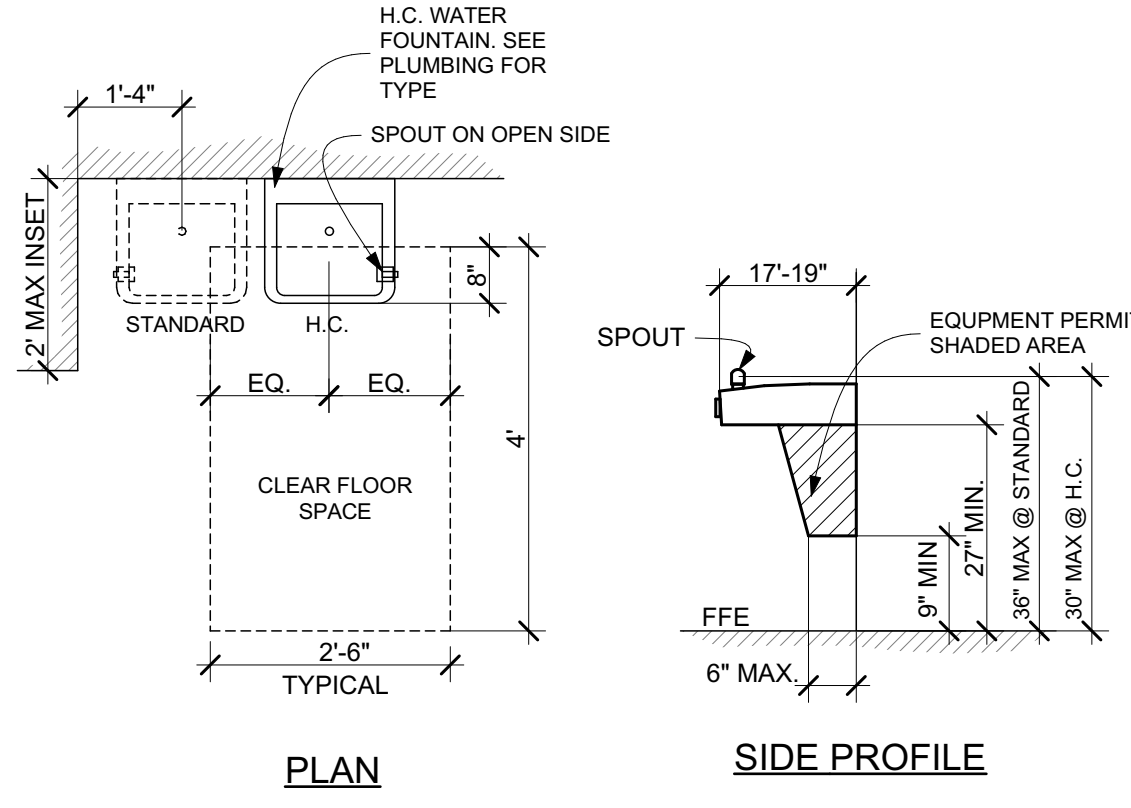
**1G1.2**



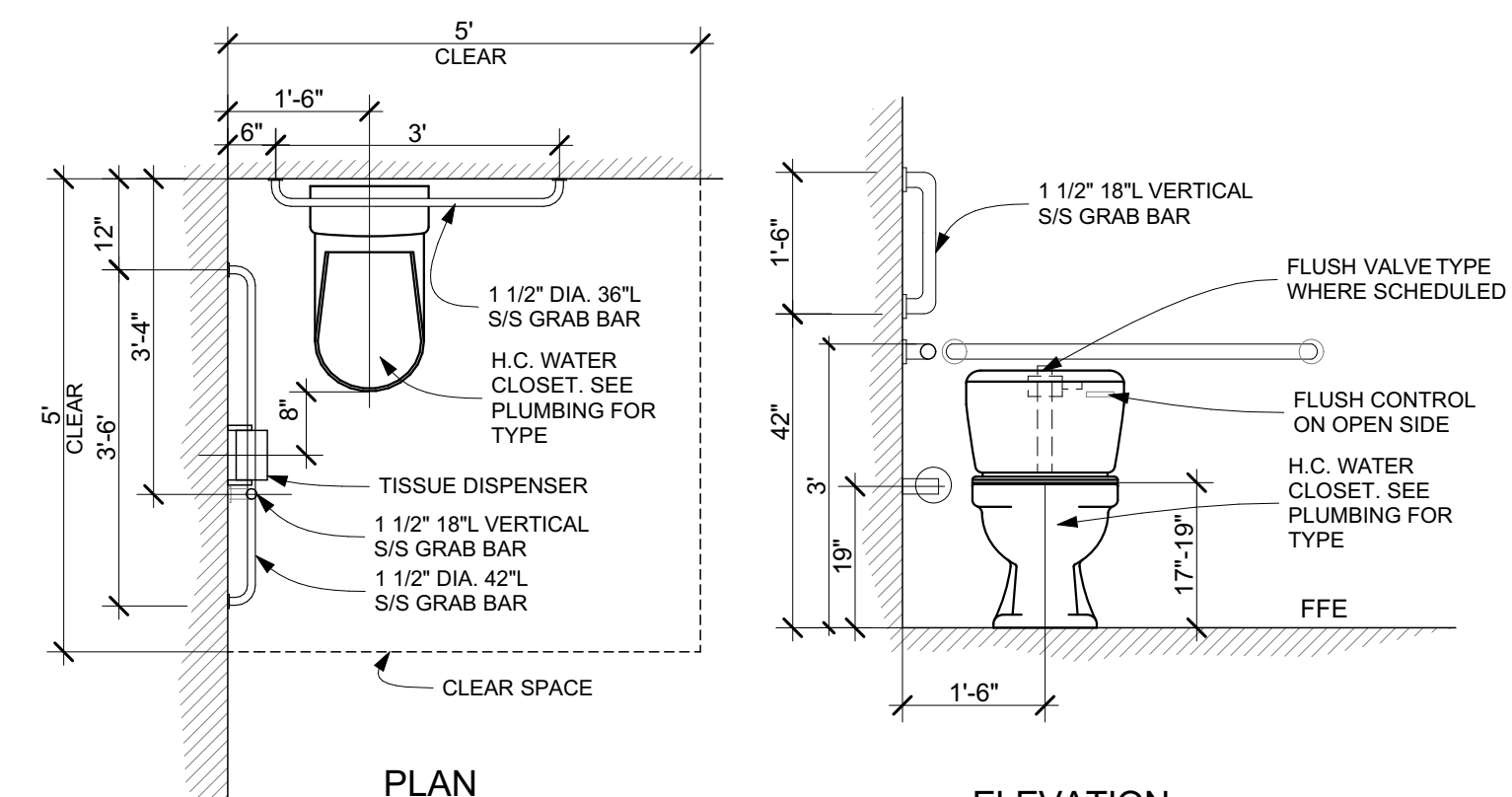
1 LIFE SAFETY PLAN  
SCALE: 1/8" = 1'-0"



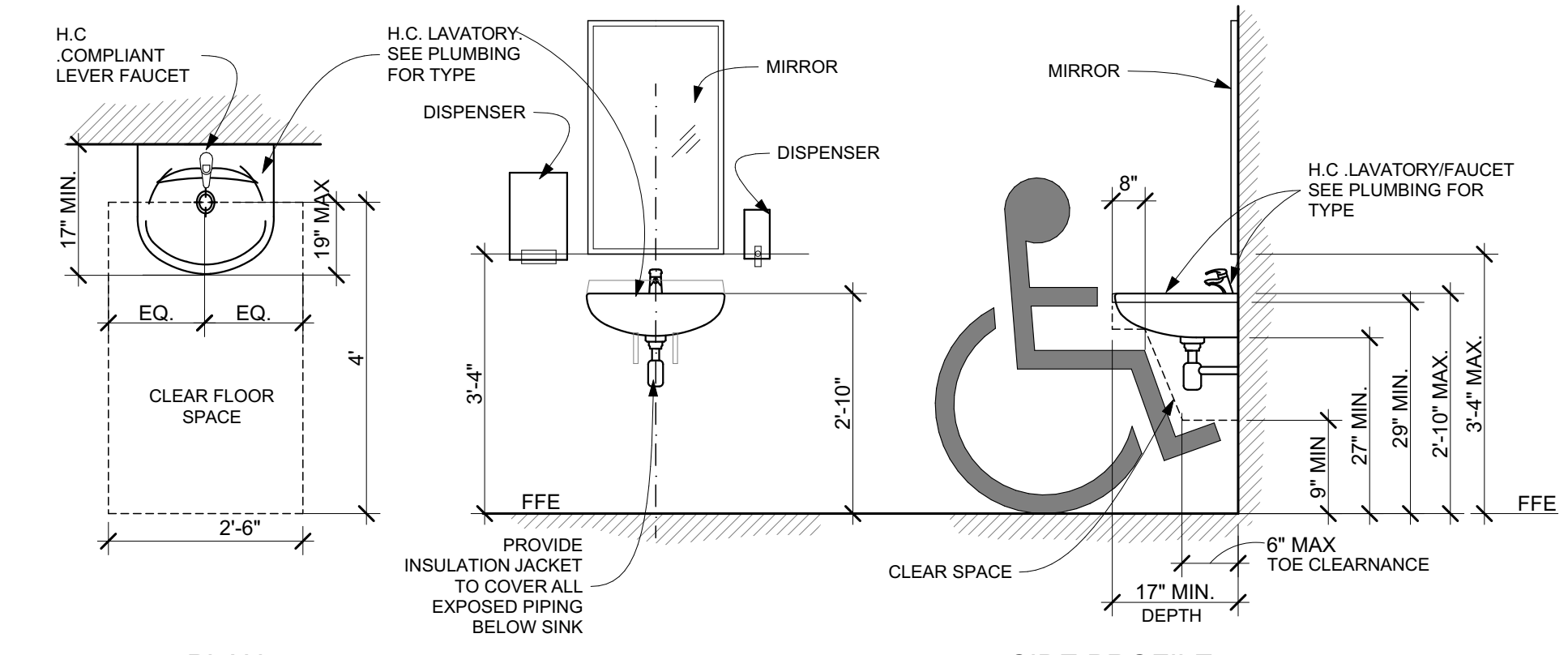
HANDICAP ACCESSIBLE ITEMS: MOUNTING HEIGHTS



DRINKING FOUNTAIN (E.W.C.)



WATER CLOSET



WALL HUNG LAVATORY

(H.C.) HANDICAP ACCESSIBLE ITEMS

NOT TO SCALE

M. TODD ALBRITTON  
ARCHITECT

202 EAST MAIN STREET  
THOMASTON, GEORGIA  
30286  
PH 770-550-3275  
mtoddalbritionarchitect@gmail.com

COPYRIGHT  
THESE DESIGNS AND DRAWINGS AS INSTRUMENTS OF SERVICE ARE THE PROPERTY OF THE ARCHITECT AND SHALL NOT BE COPIED OR REUSED IN ANY FORM WITHOUT THE WRITTEN PERMISSION OF THE ARCHITECT.  
THESE DRAWINGS SHALL BE USED ON THE ORIGINAL PROJECT LOCATION ONLY AND SHALL NOT BE REUSED AT OTHER LOCATIONS.

REGISTERED ARCHITECT  
M. TODD ALBRITTON  
13909  
THOMASTON, GEORGIA

NEW TIDAL WAVE  
AUTO SPA

US 401  
ROLESVILLE, NC

OWNER:  
TIDAL WAVE AUTO SPA

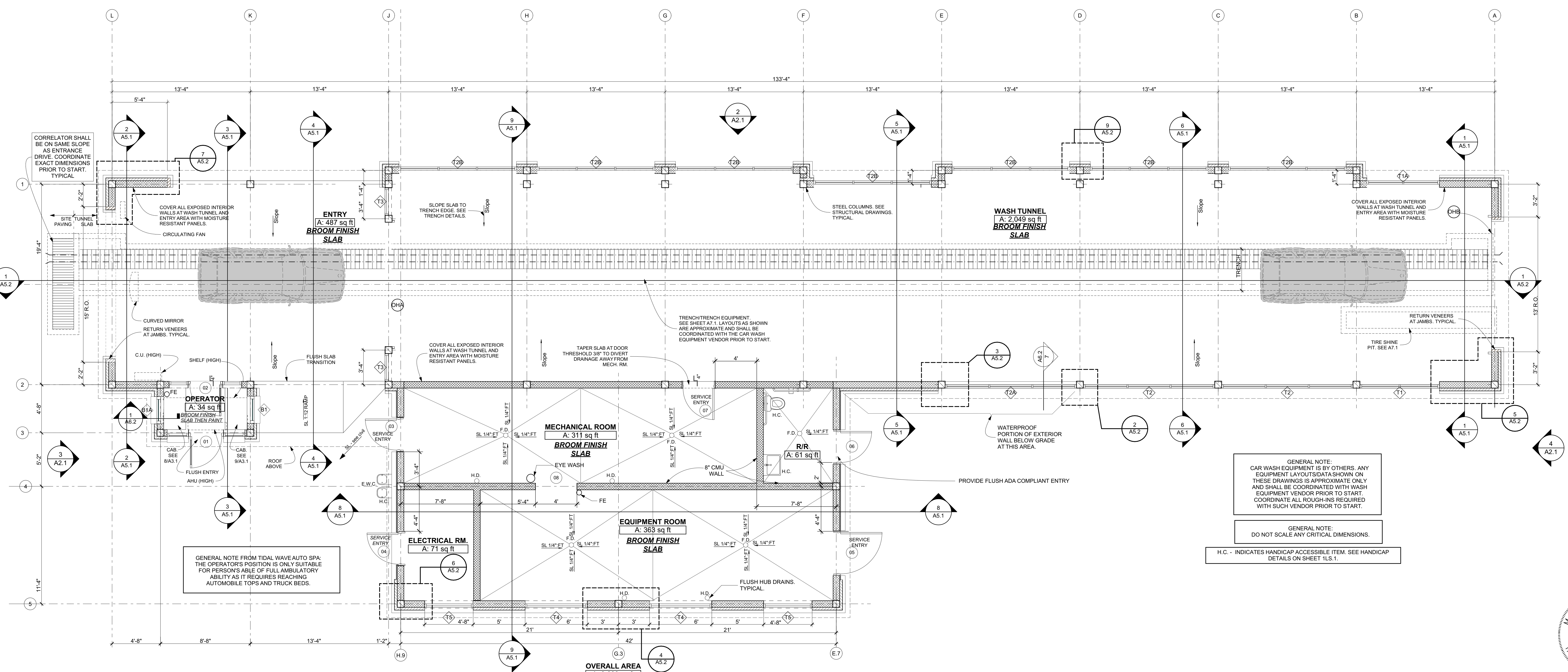
EAST THOMPSON STREET  
THOMASTON, GEORGIA  
30286



MARK	DATE	DESCRIPTION

SHEET TITLE	
LIFE SAFETY	
PROJECT DATE:	xxxxx
PROJECT NUMBER:	#
DRAWN BY:	Name

1LS.1





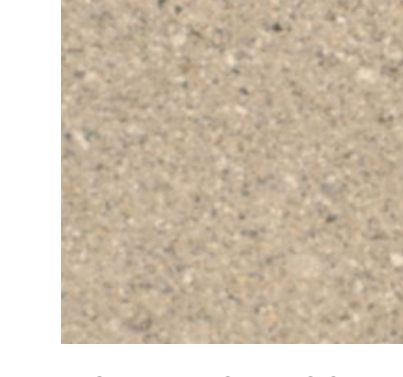
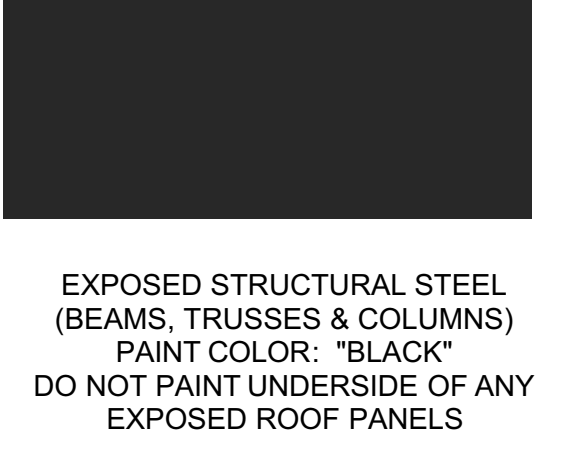

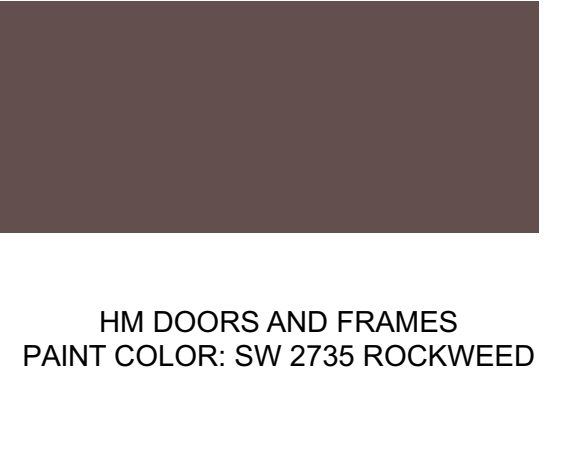


GENERAL NOTE:  
CAR WASH EQUIPMENT IS BY OTHERS. ANY EQUIPMENT LAYOUTS DATA SHOWN ON THESE DRAWINGS IS APPROXIMATE ONLY AND SHALL BE COORDINATED WITH WASH EQUIPMENT VENDOR PRIOR TO START. COORDINATE ALL ROUGH-INS REQUIRED WITH SUCH VENDOR PRIOR TO START.

GENERAL NOTE:  
DO NOT SCALE ANY CRITICAL DIMENSIONS.

H.C. - INDICATES HANDICAP ACCESSIBLE ITEM. SEE HANDICAP DETAILS ON SHEET 1LS.1.

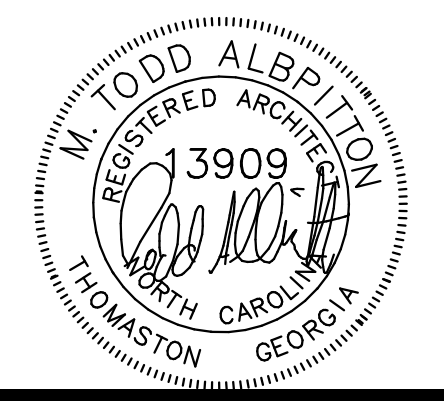
**1 OVERALL FLOOR PLAN**  
SCALE: 1/4" = 1'-0"

 STUCCO OR EIFS COLOR: SW 9102 QUINOA	 PREFINISHED METAL ROOF R PANEL. COLOR = REGAL BLUE. ROOF FLASHING, FASCIA, SOFFIT, GUTTER, AND OVERHANG TRIM TO MATCH ROOF COLOR.	 WATER TABLE: SPLIT FACE "SILL" BLOCK. WHITE RANGE. OLD CASTLE.
 CULTURED STONE VENEER. BUCKS COUNTY LEDGESTONE BY CENTURION	 GLASS: CLEAR	 SPLIT FACE BLOCK. BEIGE RANGE. OLD CASTLE.
 EXPOSED STRUCTURAL STEEL (BEAMS, TRUSSES & COLUMNS). PAINT COLOR: "BLACK". DO NOT PAINT UNDERSIDE OF ANY EXPOSED ROOF PANELS.	 STOREFRONT FRAMES, LOUVERS. COLOR - BRONZE	 HM DOORS AND FRAMES. PAINT COLOR: SW 2735 ROCKWEEDE

**EXTERIOR FINISH SCHEDULE**

ROOM FINISH SCHEDULE					
NAME	FLOOR	BASE	WALL	CEILING	REMARKS
ELECTRICAL RM.	BROOM FINISHED SLAB	NONE	EXPOSED CMU	NO CEILING	
ENTRY	BROOM FINISHED SLAB	NONE	COVER WITH M.R. PANELS	M.R. PANELS OVER 2x FURRING OVER FRAMING	
EQUIPMENT ROOM	BROOM FINISHED SLAB	NONE	EXPOSED CMU	NO CEILING	
MECHANICAL ROOM	BROOM FINISHED SLAB	NONE	EXPOSED CMU	NO CEILING	
OPERATOR	RUSTOLEUM 2 PART EPOXY W/ COLOR FLAKES	NONE	PAINTED CMU. SW9102	M.R. PANELS OVER 2x FURRING OVER FRAMING	BROOM FINISH FLOOR SLAB THEN PAINT
OVERALL AREA	BROOM FINISHED SLAB	NONE	EXPOSED CMU	NO CEILING	
R/R	CERAMIC TILE DAL TILE VOLUM 1 @ 12X24 INTENSITY PEBBLE	CERAMIC SANITARY COVE BASE DAL TILE VOLUM 1 REVERS ASH	CER. TILE DAL TILE VOLUM 1 12 X24 REVERS ASH. SEE REMARKS.	M.R. PANELS OVER FURRING OVER 2x6 FRAMING @ 12" O.C., 9ft	WALL CERAMIC TILE IS TO BE FULL HEIGHT @ PLUMBING WALL & 6ft @ OTHER 3 WALLS. PROVIDE SEALANT TILE JOINT AT ALL CORNERS. FLOOR TILE TO BE "NON-SLIP".
WASH TUNNEL	BROOM FINISH SLAB	NONE	COVER WITH M.R. PANELS	M.R. PANELS OVER 2x FURRING OVER FRAMING	

NOTE: AUXILIARY BUILDINGS - REFERENCE RELATED PLANS FOR ADDITIONAL INFORMATION.



**M. TODD ALBRITTON**  
**ARCHITECT**  
202 EAST MAIN STREET  
THOMASTON, GEORGIA 30286  
PH 770-550-3275  
mtoddalbrittonarchitect@gmail.com

**NEW TIDAL WAVE AUTO SPA**  
US 401  
ROLESVILLE, NC

OWNER:  
**TIDAL WAVE AUTO SPA**  
EAST THOMPSON STREET  
THOMASTON GEORGIA 30286

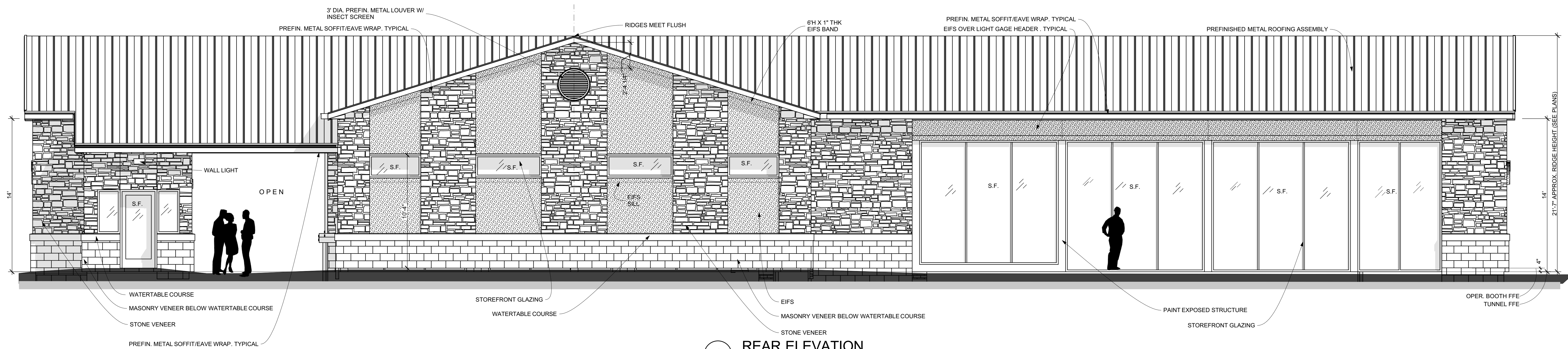


MARK	DATE	DESCRIPTION

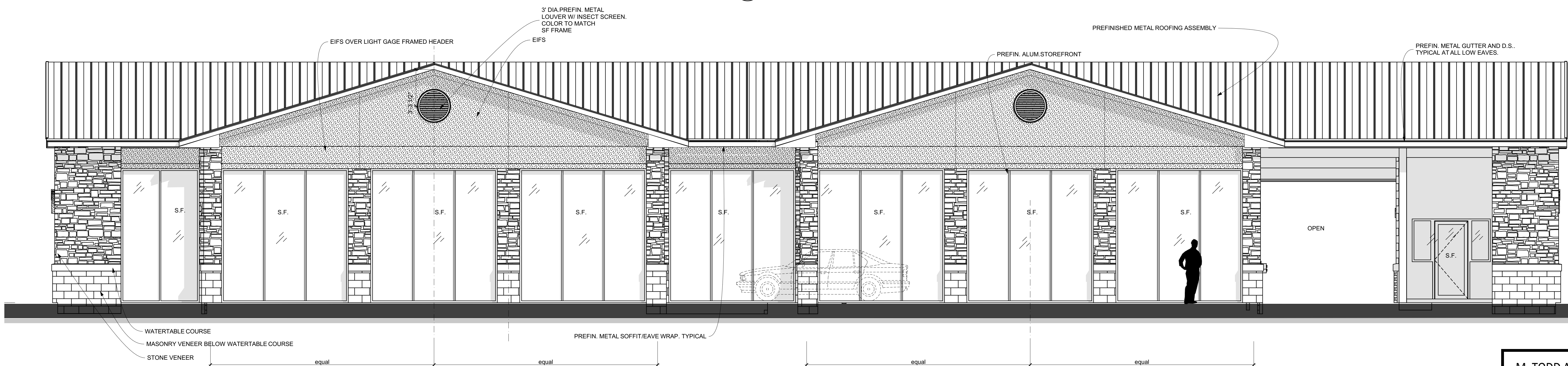
SHEET TITLE  
**FIRST FLOOR PLAN**

PROJECT DATE: #####  
PROJECT NUMBER: ##  
DRAWN BY: Name

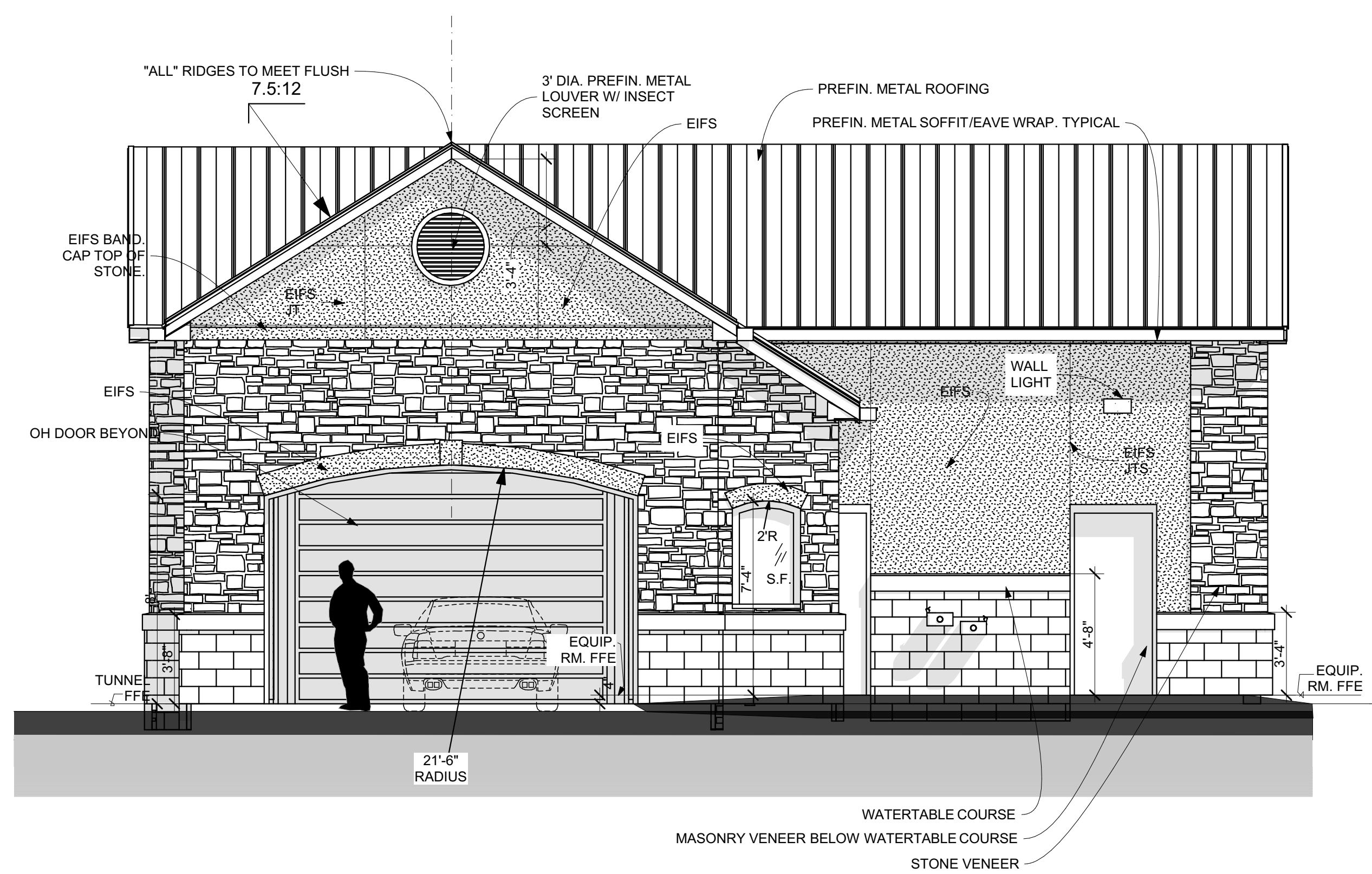
**A1.1**



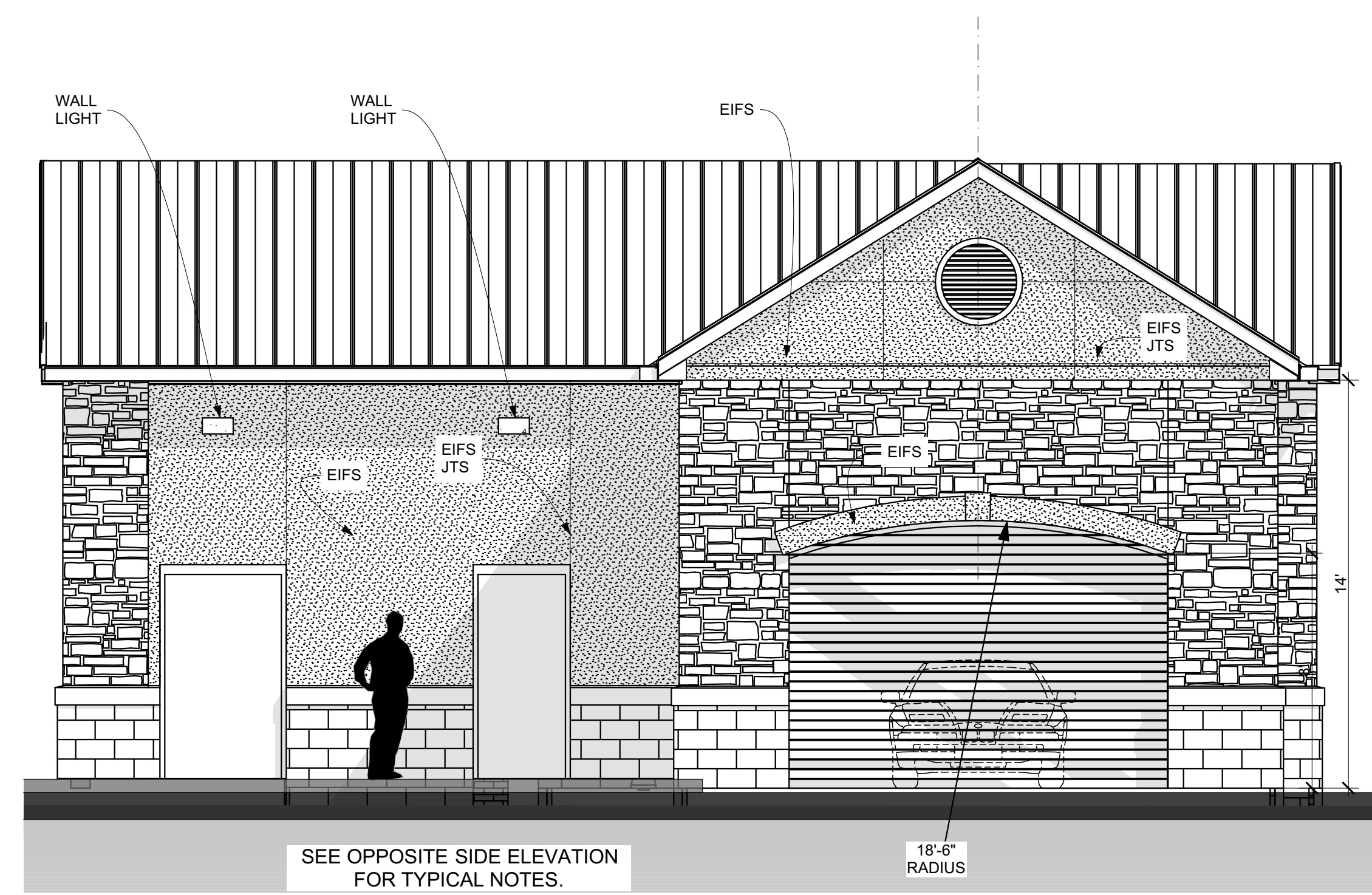
1 REAR ELEVATION  
SCALE: 1/4" = 1'-0"



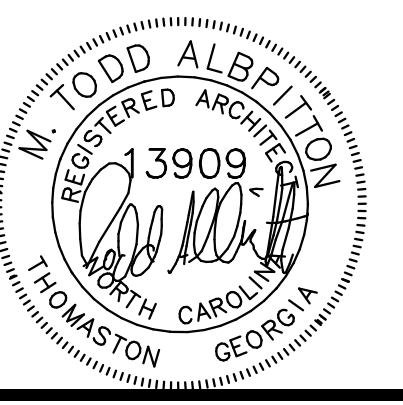
2 FRONT ELEVATION  
SCALE: 1/4" = 1'-0"



3 SIDE ELEVATION - ENTRY  
SCALE: 1/4" = 1'-0"



4 SIDE ELEVATION - EXIT  
SCALE: 1/4" = 1'-0"



**M. TODD ALBRITTON**  
**ARCHITECT**  
202 EAST MAIN STREET  
THOMASTON, GEORGIA  
30286  
PH 770-550-3275  
mtoddalbrittonarchitect@gmail.com

**NEW TIDAL WAVE**  
**AUTO SPA**  
US 401  
ROLESVILLE, NC

OWNER:  
**TIDAL WAVE AUTO SPA**  
EAST THOMPSON STREET  
THOMASTON GEORGIA  
30286

COPYRIGHT  
THESE DESIGNS AND DRAWINGS AS INSTRUMENTS OF  
SERVICE ARE THE PROPERTY OF THE ARCHITECT AND  
SHALL NOT BE COPIED OR REUSED IN ANY FORM  
WITHOUT THE WRITTEN PERMISSION OF THE  
ARCHITECT  
THESE DRAWINGS SHALL BE USED ON THE ORIGINAL  
PROJECT LOCATION ONLY AND SHALL NOT BE REUSED  
AT OTHER LOCATIONS.



MARK	DATE	DESCRIPTION

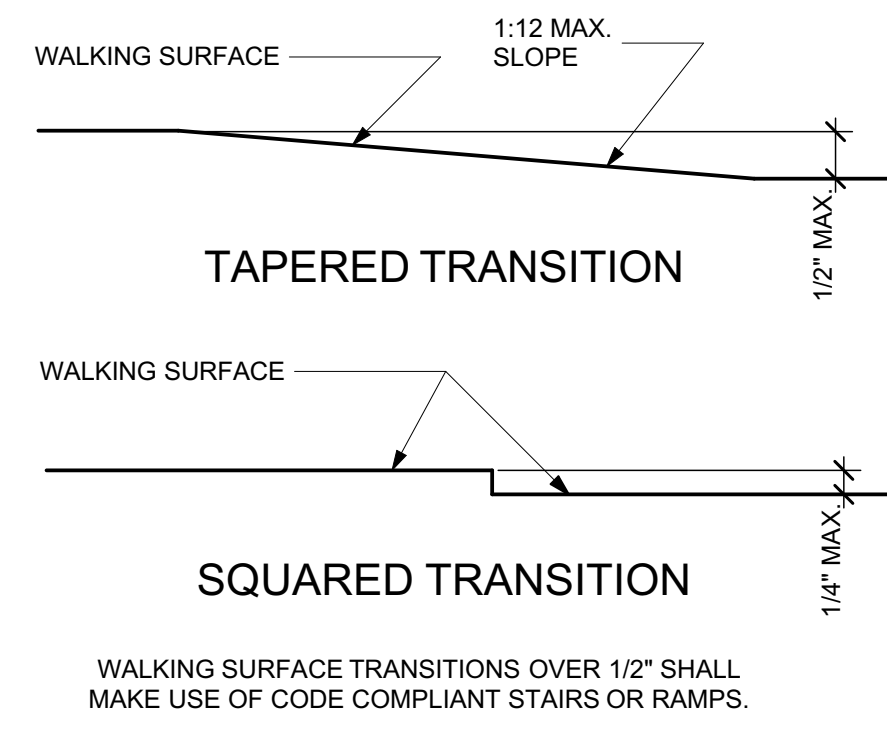
SHEET TITLE  
**EXTERIOR ELEVATION**

PROJECT DATE: #####

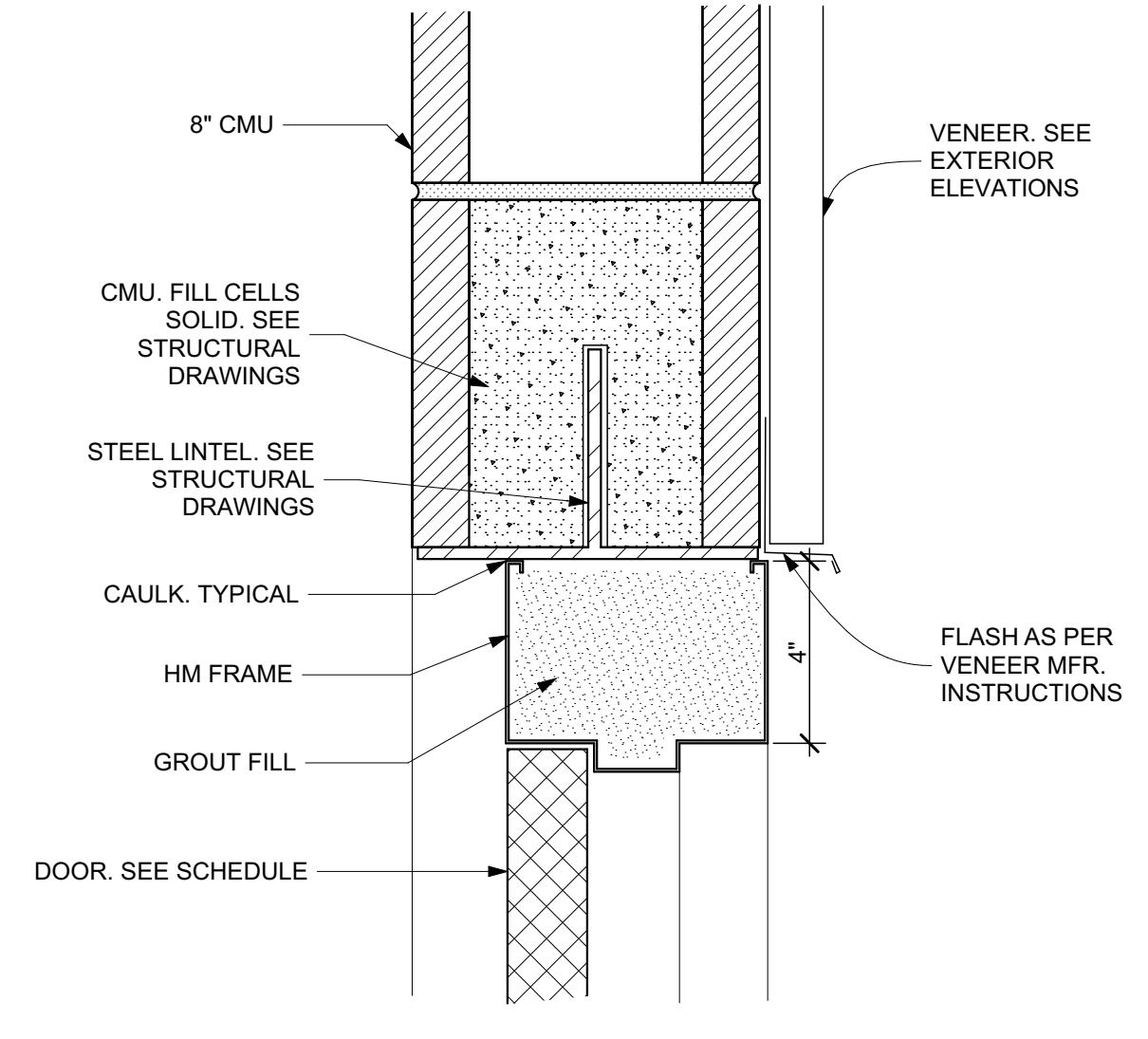
PROJECT NUMBER: ##

DRAWN BY: Name

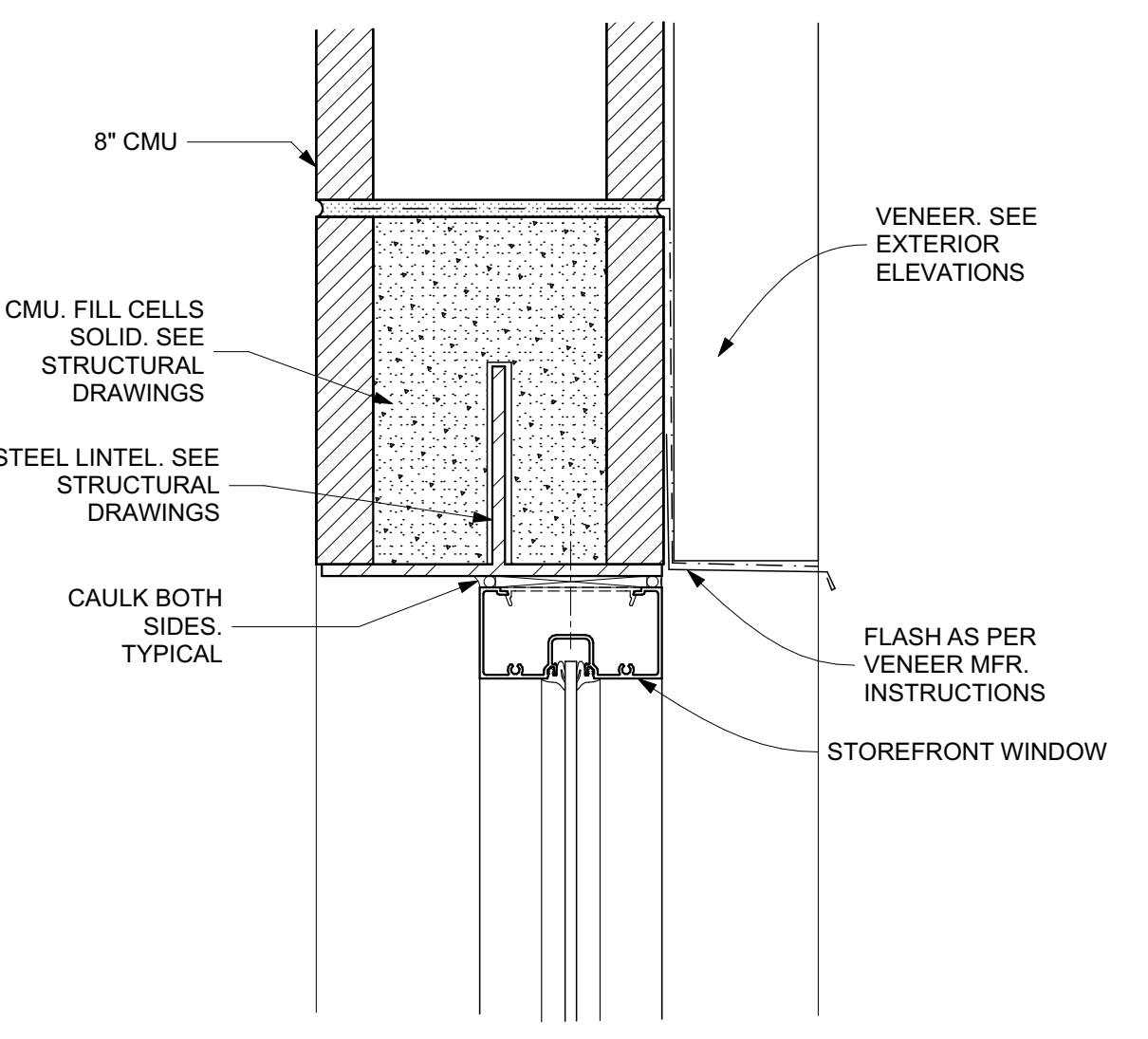
**A2.1**



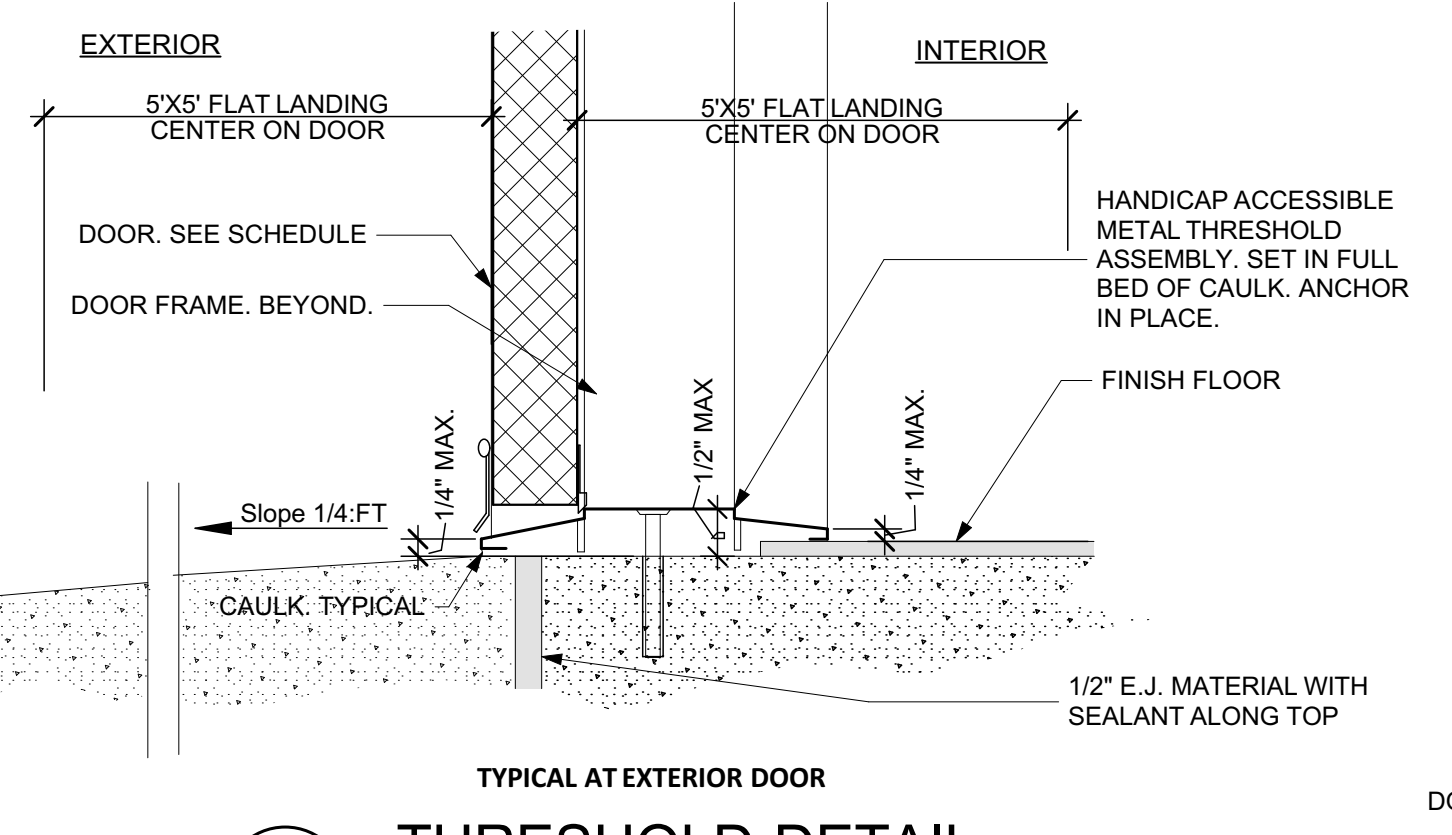
**1 WALKING SURFACE TRANSITIONS**  
NOT TO SCALE



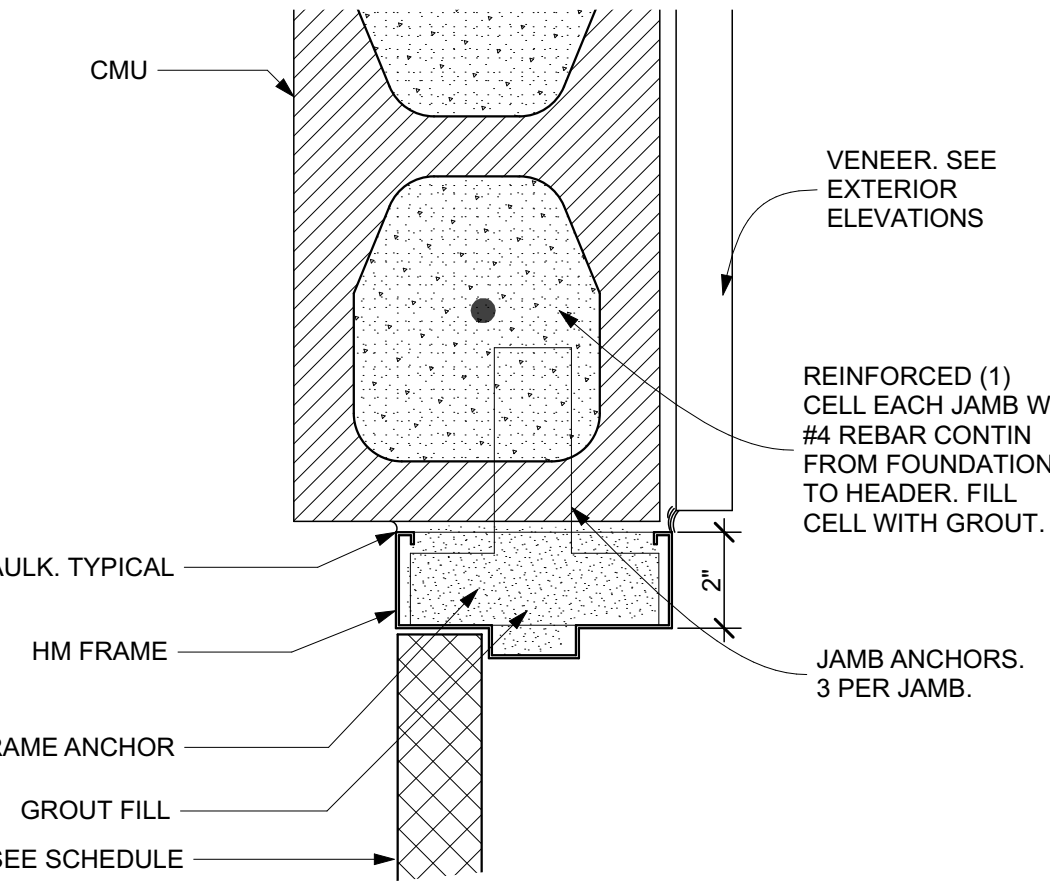
**3 HEAD DETAIL**  
NOT TO SCALE



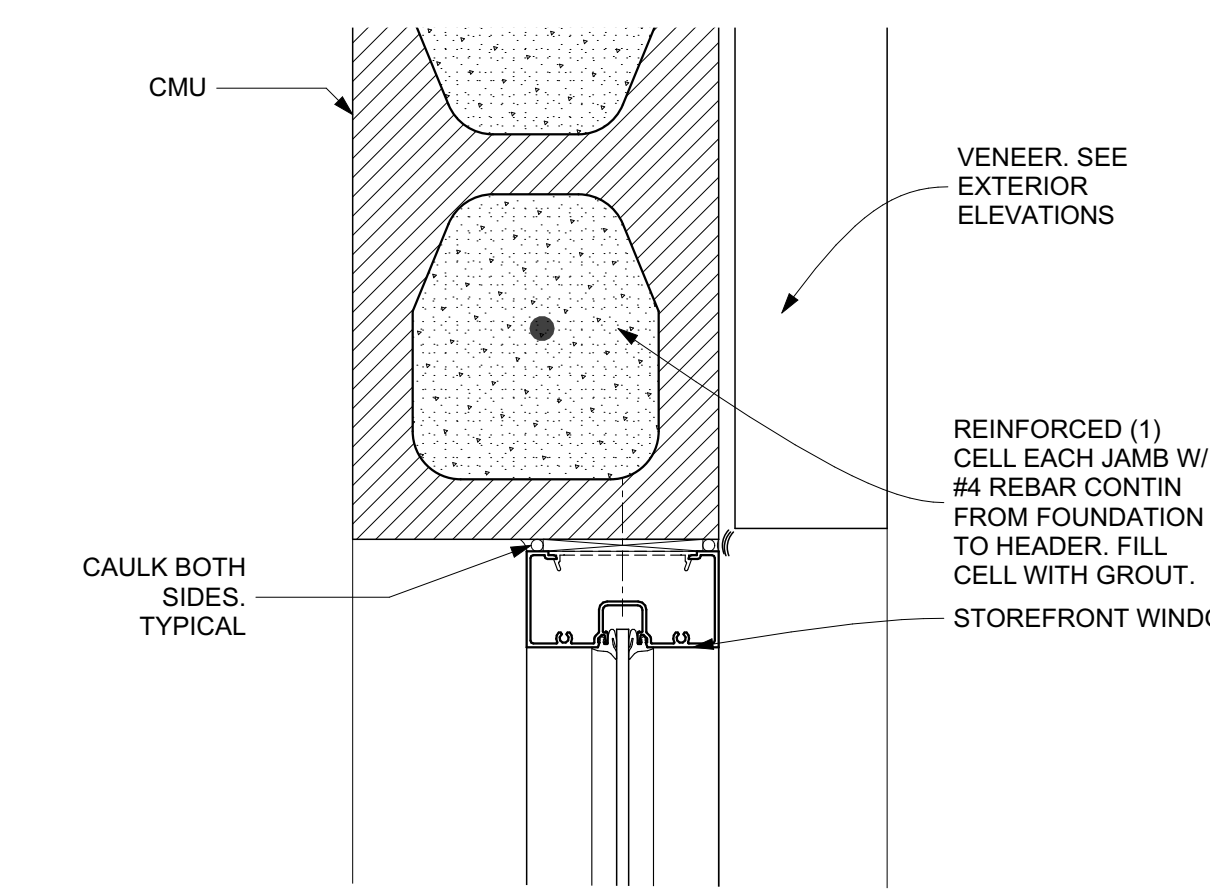
**5 HEAD DETAIL**  
NOT TO SCALE



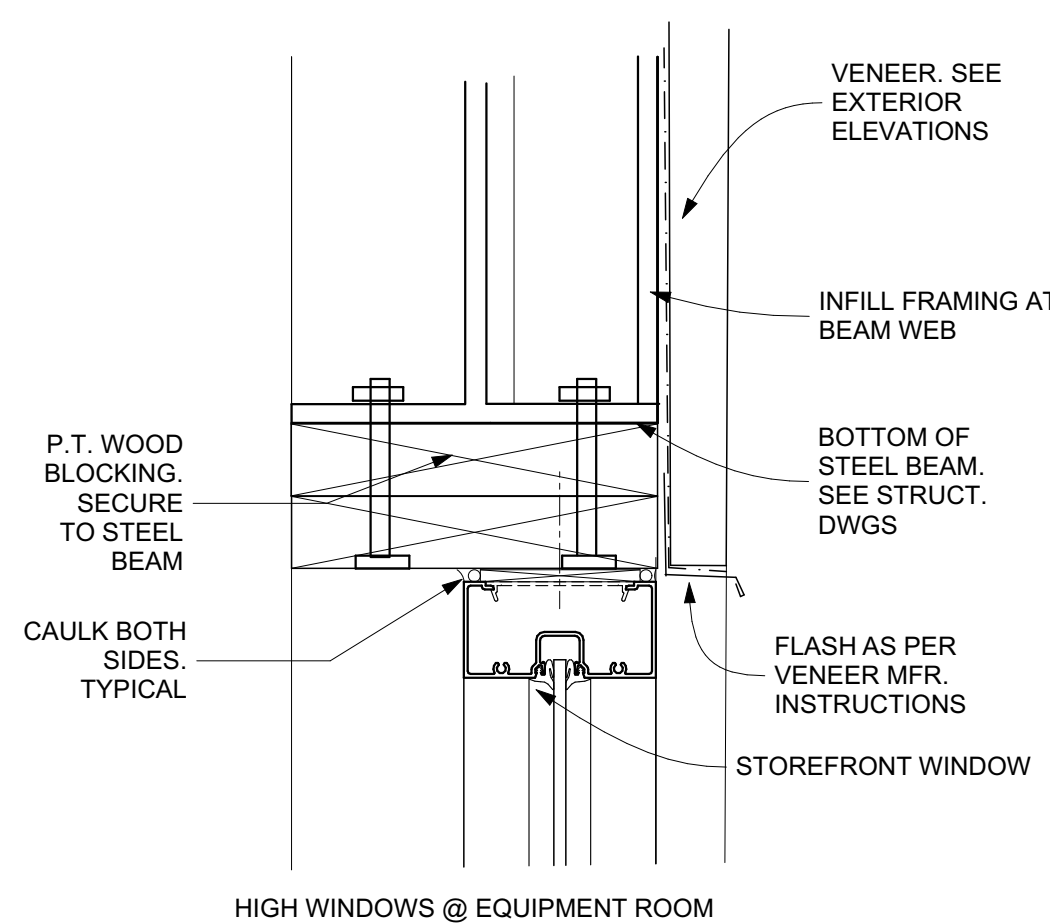
**2 TYPICAL AT EXTERIOR DOOR THRESHOLD DETAIL**  
NOT TO SCALE



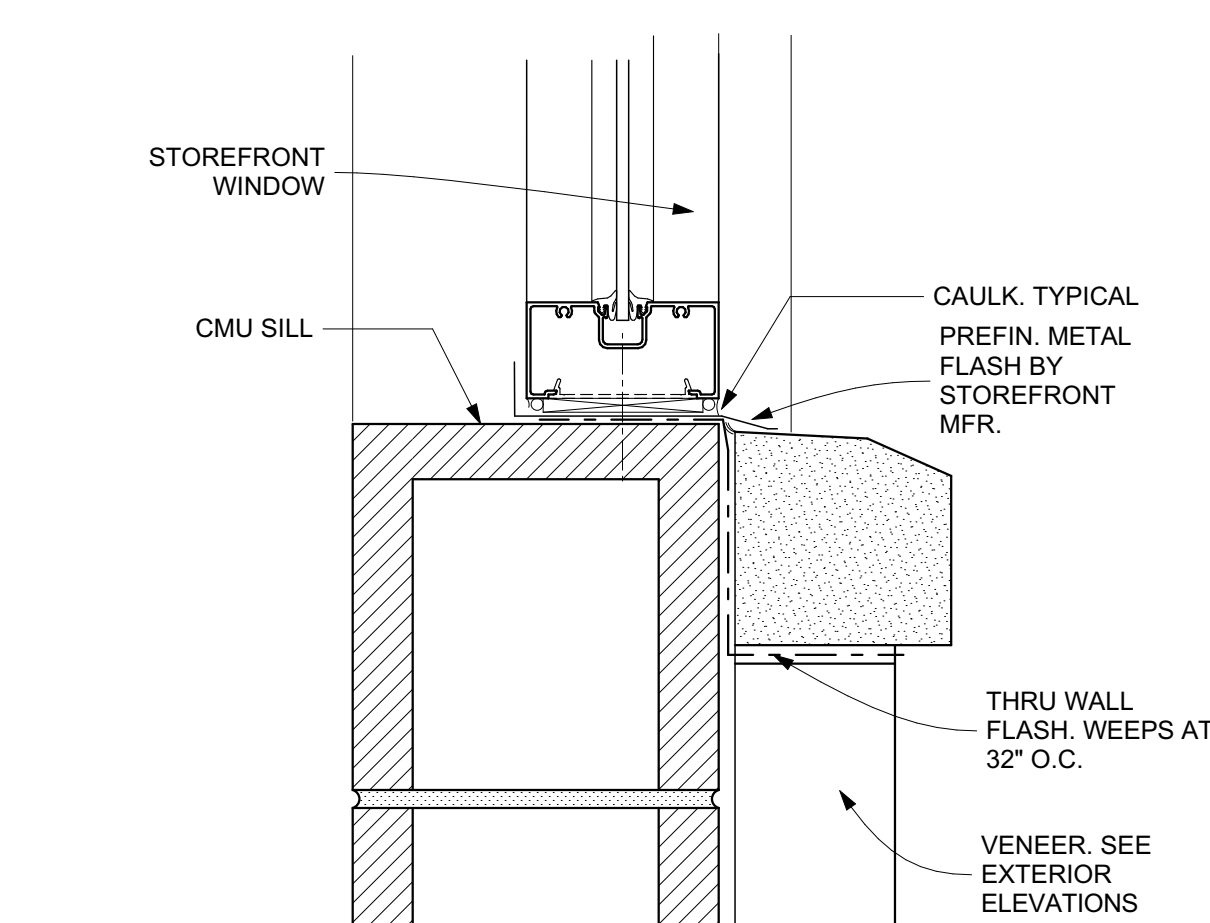
**4 JAMB DETAIL**  
NOT TO SCALE



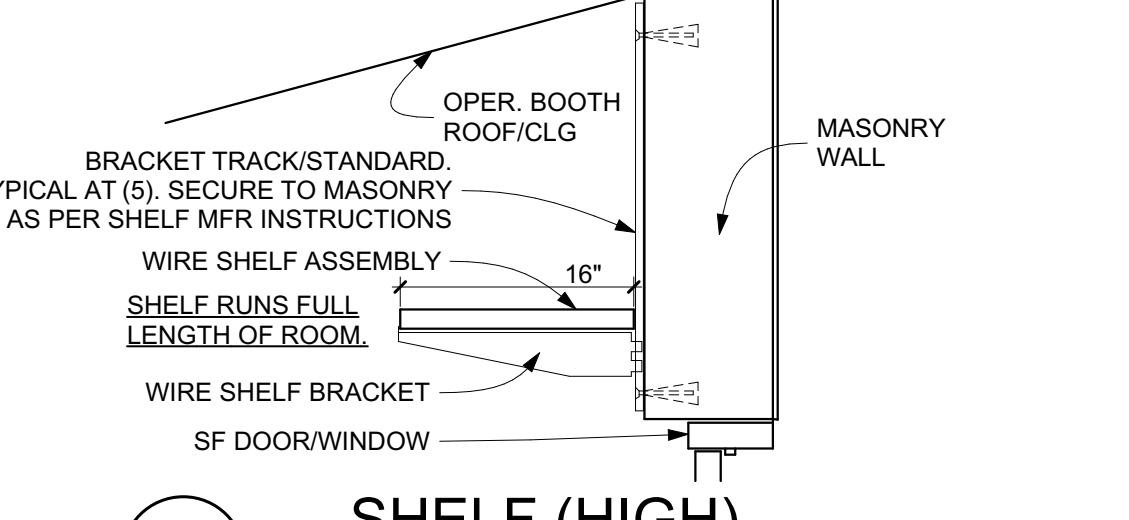
**6 JAMB DETAIL**  
NOT TO SCALE



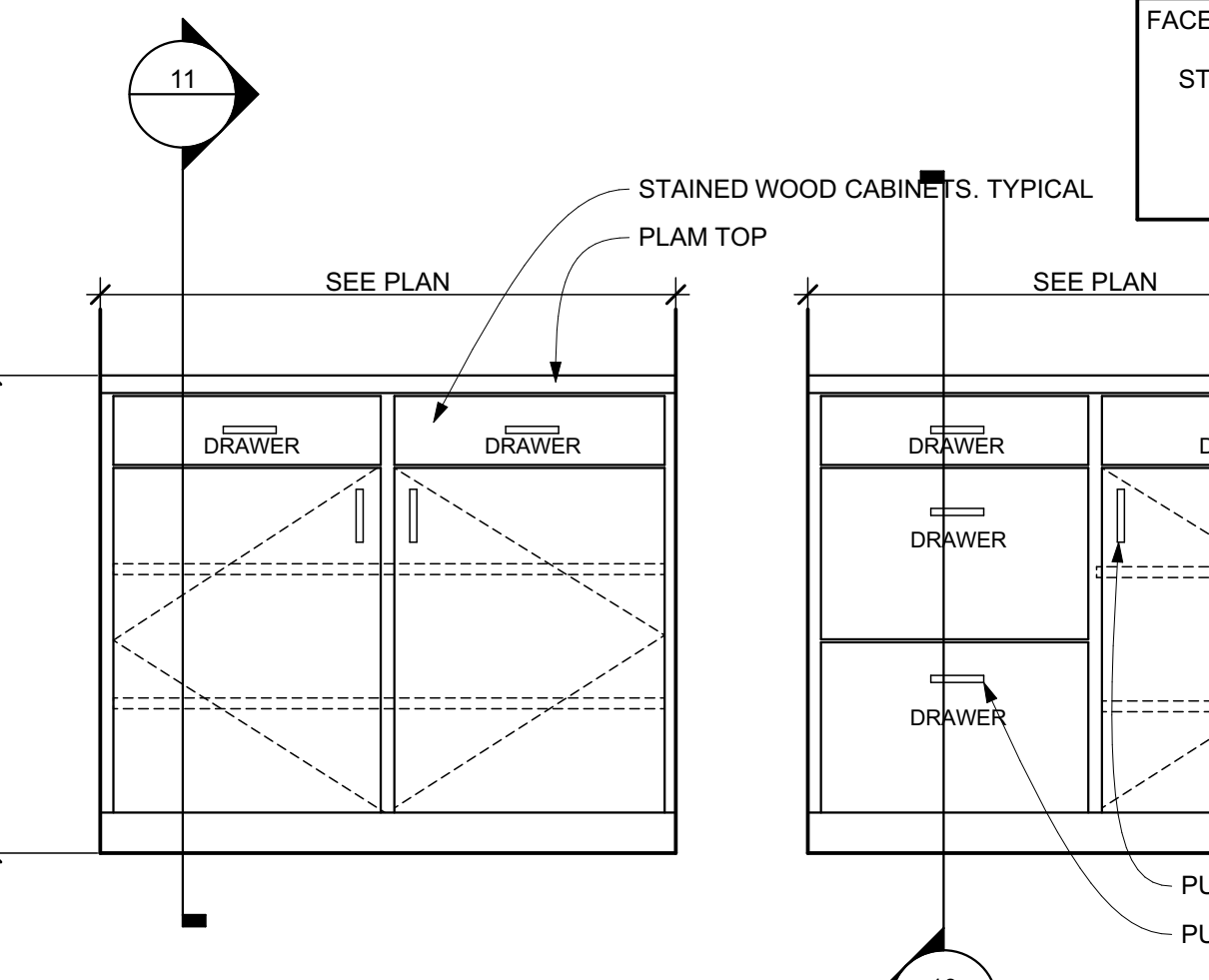
**5A HEAD DETAIL**  
NOT TO SCALE



**7 JAMB DETAIL**  
NOT TO SCALE

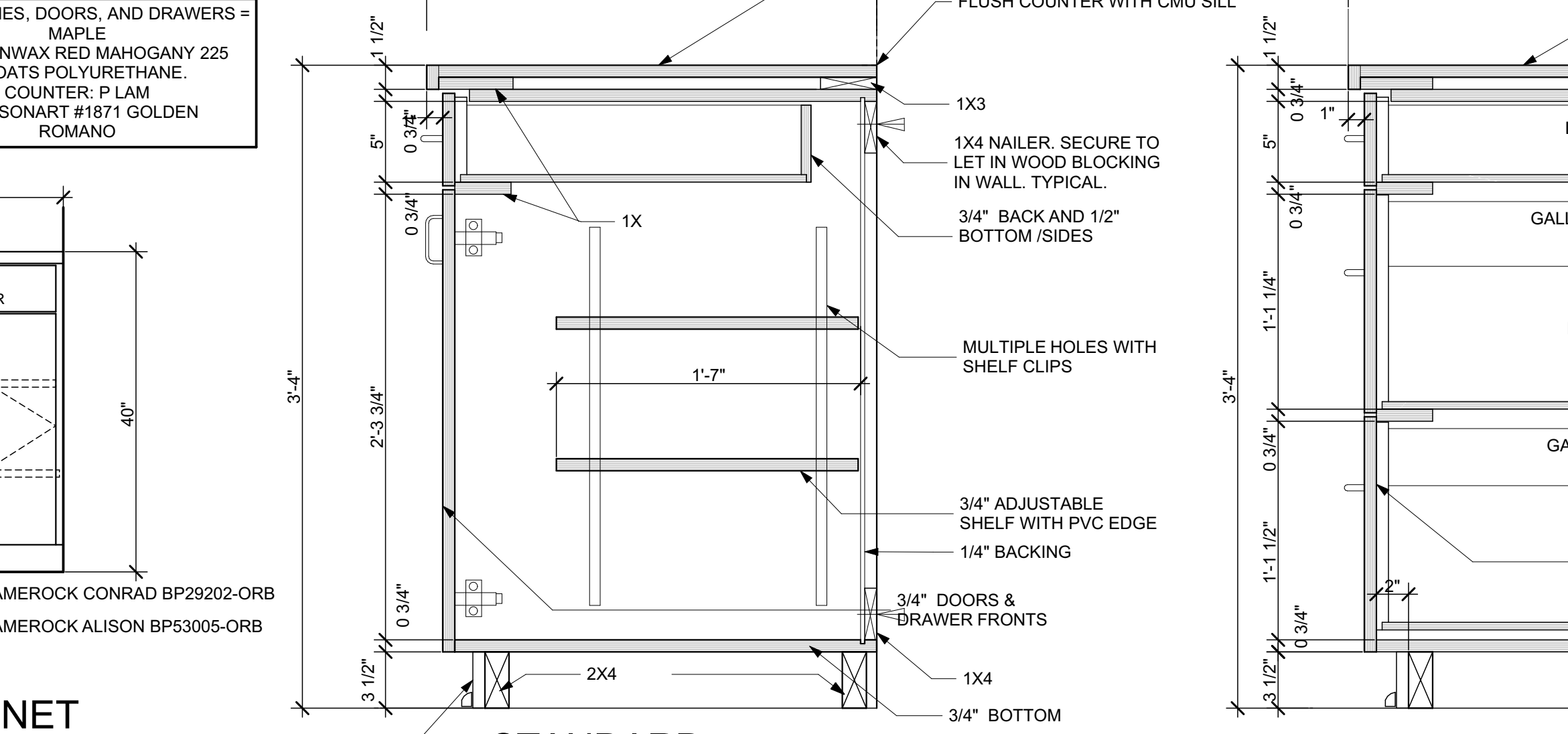


**12 SHELF (HIGH)**  
NOT TO SCALE

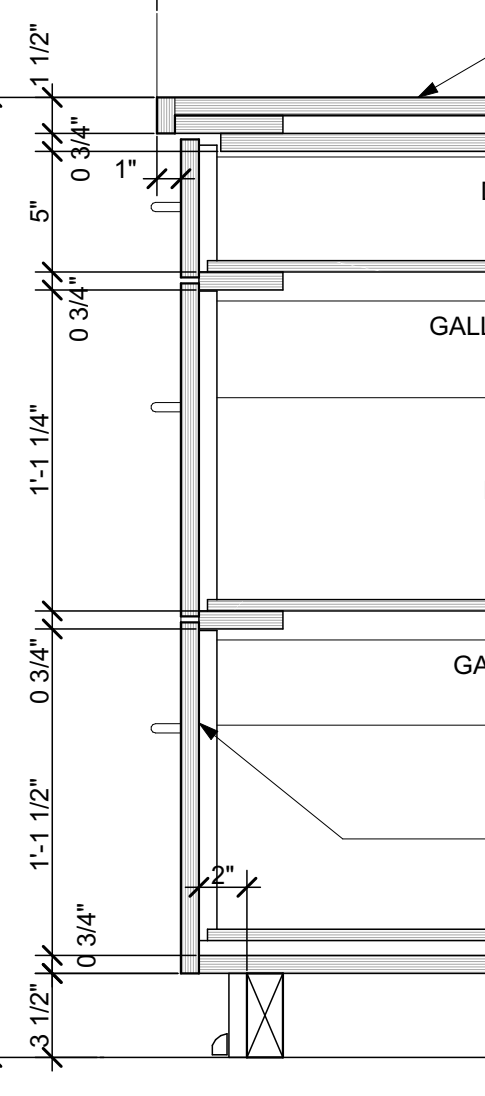


**8 BASE CABINET ELEVATION TUNNEL ENTRY SIDE OF OPER. BOOTH**  
NOT TO SCALE

**9 BASE CABINET ELEVATION TUNNEL EXIT SIDE OF OPER. BOOTH**  
NOT TO SCALE



**11 STANDARD BASE CABINET**  
NOT TO SCALE

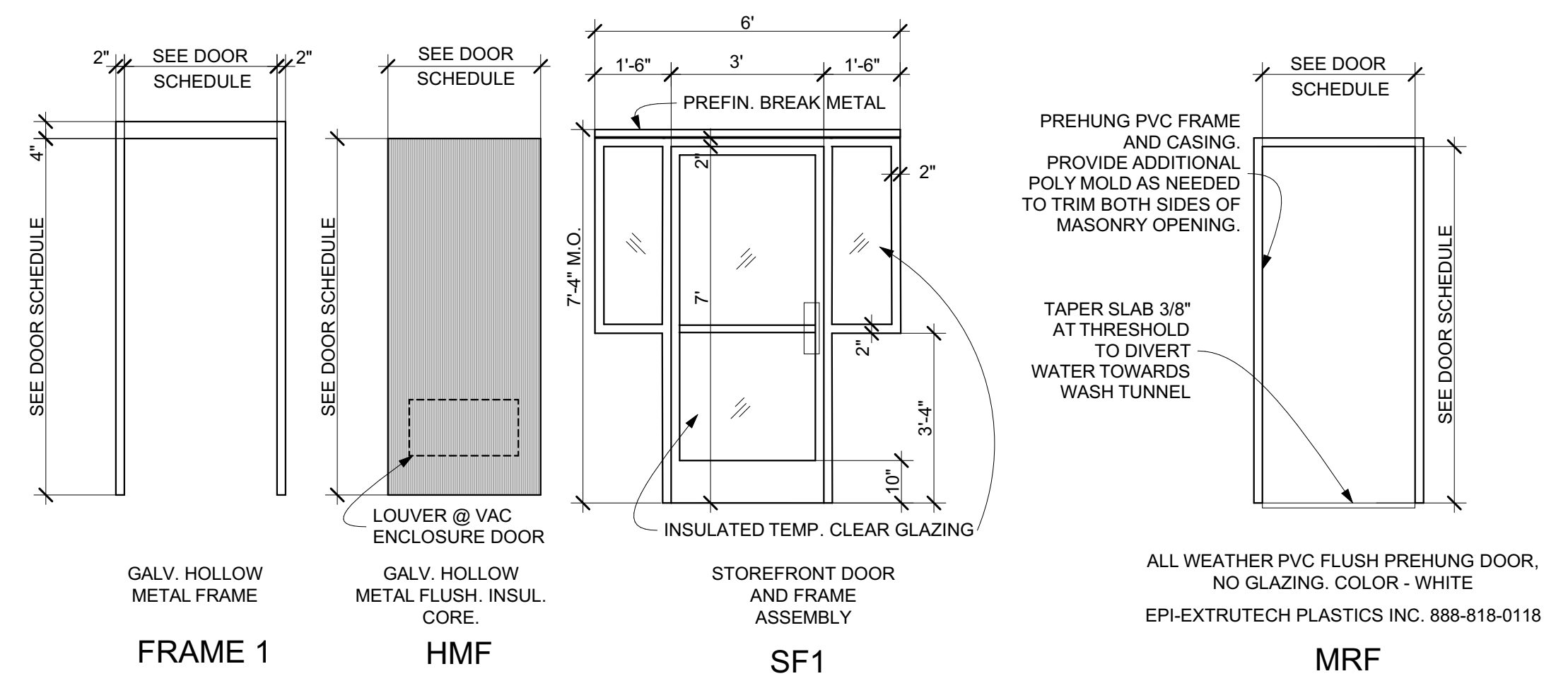


**10 DRAWER UNITS @ STANDARD BASE CAB.**  
NOT TO SCALE

DOOR ID	Nominal W x H Size	DOOR TYPE	FRAME		HDWR SET	UL FIRE RATING	REMARKS	
			TYPE	DETAIL				
				HEAD				JAMB
01	3'x7'	SF1	SF1	5/A3.1	6/A3.1	1	Unrated	
02	3'x7'	SF1	SF1	5/A3.1	6/A3.1	1	Unrated	
03	3'x7'	HMF	1	3/A3.1	4/A3.1	2	Unrated	
04	3'x7'	HMF	1	3/A3.1	4/A3.1	2	Unrated	PROVIDE LOUVER LOW IN DOOR. SEE HVAC DWGS FOR SIZE.
05	4'x7'	HMF	1	3/A3.1	4/A3.1	2	Unrated	
06	3'x7'	HMF	1	3/A3.1	4/A3.1	4	Unrated	
07	3'x7'	MRF	PREHUNG PVC	3/A3.1 SIMILAR	4/A3.1 SIMILAR	3	Unrated	TAPER SLAB THRESHOLD TOWARDS TUNNEL.
08	4'x8'	MASONRY OPENING	---	---	---	---	Unrated	MASONRY OPENING
OHA	12'x12'	OHC	-	8/A5.1	SECURE TO STRUCT.	-	Unrated	OH DOOR TO COVER ARCHED OPENING
OHB	13'x9'	OHC	-	8/A5.2	5/A5.2	-	Unrated	OH DOOR TO COVER ARCHED OPENING

GENERAL NOTE: OVERHEAD SIZE AS LISTED ARE APPROXIMATE WHERE LOCATED BETWEEN STRUCTURAL STEEL FRAMING MEMBERS. FIELD MEASURE AND FILL SPACE AVAILABLE.

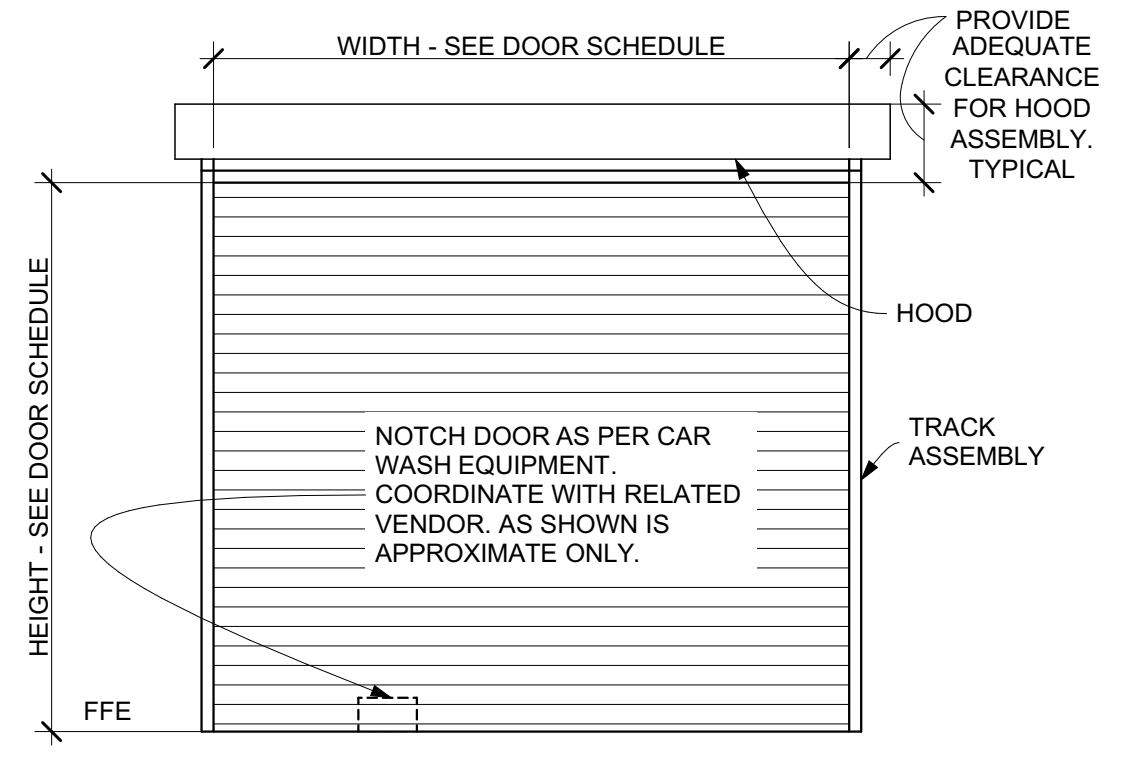
DOOR ID	LOCATION	W	H	THICK.	DOOR TYPE	FRAME		HDWR SET	UL FIRE RATING	REMARKS	
						TYPE	DETAIL				
							HEAD				JAMB
V1	VAC. ENCLOSURE	3'	7'	1 3/4"	HMF	1	DH/AB.1	DJ/AB.1	#2	Unrated	COORDINATE QUANTITY OF DOORS - SEE AUXILIARY BUILDING PLAN SHEETS. PROVIDE LOUVER LOW IN VAC ENCLOSURE DOOR AS INDICATED.
V2	VENDING	3'	7'	1 3/4"	HMF	1	DH/AB.1	DJ/AB.1	#2	Unrated	COORDINATE QUANTITY OF DOORS - SEE AUXILIARY BUILDING PLAN SHEETS.
D1	DUMPSTER	3'	7'	1 3/4"	HMF	1	DH/AB.1	DJ/AB.1	#2	Unrated	SEE AUXILIARY BUILDING PLAN SHEETS.



**DOOR AND FRAME TYPE ELEVATIONS:**  
NOTE: SOME ITEMS MAY NOT BE USED ON THIS JOB.

**DOOR HARDWARE SCHEDULE:**

- NOTE: NO DOOR SHALL LOCK AUTOMATICALLY AT CLOSING.
- HDWR SET 1** STOREFRONT ENTRY. ALL HARDWARE TO BE PROVIDED BY THE DOOR MANUFACTURER. WEATHERSTRIP, SILENCERS, SWEEP, METAL THRESHOLD. CLOSER AT DUMPSTER ENCLOSURE DOOR TO BE MOUNTED ON EXTERIOR SIDE.
  - HDWR SET 2** KEYED LEVER ENTRY SET, DEADBOLT, 3 HINGES, STRIKE, STOP, CLOSER, HOLD OPEN. WEATHERSTRIP, SILENCERS, SWEEP, METAL THRESHOLD. CLOSER AT DUMPSTER ENCLOSURE DOOR TO BE MOUNTED ON EXTERIOR SIDE.
  - HDWR SET 3** KEYED LEVER ENTRY SET, 3 HINGES, STRIKE, SILENCERS, STOP, CLOSER. LOCK TO DISENGAGE WHEN LEVER ACTIVATED FROM INTERIOR.
  - HDWR SET 4** RESTROOM (SINGLE USER) PRIVACY (PUSH BUTTON) LEVER SET KEYED WITH PIN AND TUMBLER. 3 HINGES, STRIKE, SILENCERS, STOP, CLOSER, HC SIGNAGE. LOCK TO DISENGAGE WHEN LEVER ACTIVATED FROM INTERIOR.
- LOCKSETS "SHALL NOT" AUTOMATICALLY LOCK WHEN CLOSED. TYPICAL ALL HARDWARE SETS.**



**OVERHEAD DOOR TYPE ELEVATIONS:**

OVERHEAD DOOR NOTE: ALL OVERHEAD DOORS SHALL MEET DASHA MINIMUM WIND LOAD RATING AS PER LOCATION. ALL OVERHEAD DOORS SHALL HAVE DASHA APPROVED LABEL AFFIXED TO EACH UNIT. MEET IBC CHAPTER 16.

NO.	LOCATION	Nominal W x H Size	TYPE	GLAZING	APPROX. QTY.	REMARKS:
B1	OPER. BOOTH	2'-4"x4'	STOREFRONT	INSULATED CLEAR	1	FLAT TOP. SEE 1 & 2 /A6.2 AND 5-7/A3.1
B1A	OPER. BOOTH	2'-4"x4'	STOREFRONT	INSULATED CLEAR	1	ARCHED TOP. SEE 1 & 2 /A6.2 AND 5-7/A3.1
T1	TUNNEL	7'-8"x12'	STOREFRONT	CLEAR	1	SEE 2/A6.1
T1A	TUNNEL	7"x12'	STOREFRONT	CLEAR	1	SEE 2/A6.1
T2	TUNNEL	12'-8"x12'	STOREFRONT	CLEAR	2	SEE 2/A6.1
T2A	TUNNEL	12'-8"x11'-4"	STOREFRONT	CLEAR	1	SEE 2/A6.1 FOR HEAD & 7/A6.2 FOR SILL
T2B	TUNNEL	11'-4"x12'	STOREFRONT	CLEAR	7	SEE 2/A6.1
T3	TUNNEL	2'-8"x12'	STOREFRONT	CLEAR	2	SEE 4/A5.1
T4	EQUIP RM	6'x2'	STOREFRONT	CLEAR	2	SEE 6/A3.1, 5/A3.1
T5	EQUIP RM	4'-8"x2'	STOREFRONT	CLEAR	2	SEE 6/A3.1, 5/A3.1

GENERAL NOTE: WINDOW UNIT SIZES AS LISTED ARE APPROXIMATE WHERE LOCATED BETWEEN STRUCTURAL STEEL FRAMING MEMBERS. FIELD MEASURE AND FILL SPACE AVAILABLE. PROVIDE ADDITIONAL MULLS AND UPSIZE ASSEMBLY AS REQUIRED TO MEET WIND LOADS. TIDAL WAVE CORP TO APPROVE FINAL LAYOUTS PRIOR TO PURCHASE.

**M. TODD ALBRITTON ARCHITECT**  
202 EAST MAIN STREET  
THOMASTON, GEORGIA 30286  
PH 770-550-3275  
mtoddalbr@architect@gmail.com

REGISTERED ARCHITECT  
3909  
THOMASTON, GEORGIA

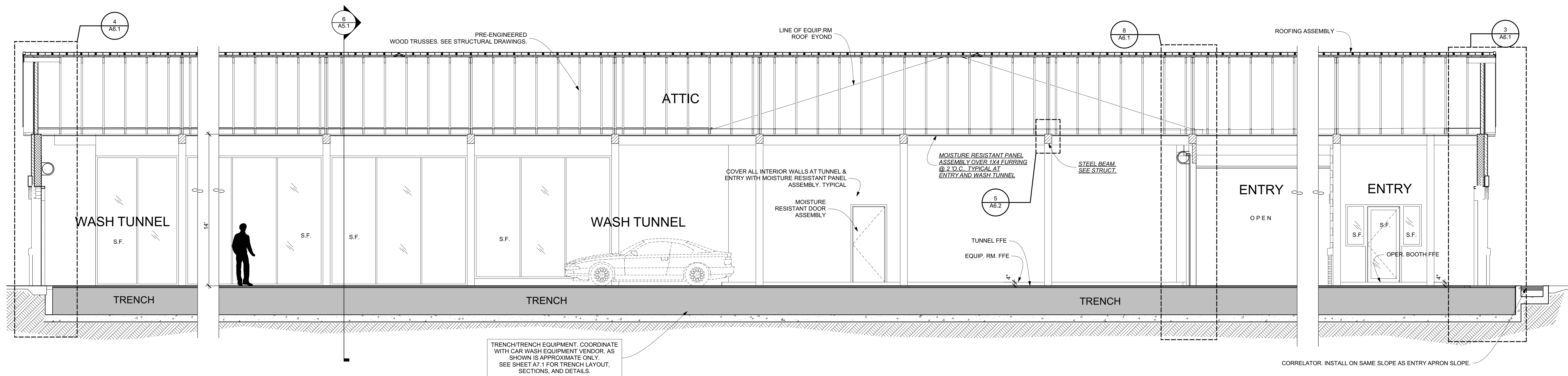
**NEW TIDAL WAVE AUTO SPA**  
US 401  
ROLESVILLE, NC  
OWNER:  
**TIDAL WAVE AUTO SPA**  
EAST THOMPSON STREET  
THOMASTON, GEORGIA 30286

**TIDAL WAVE**

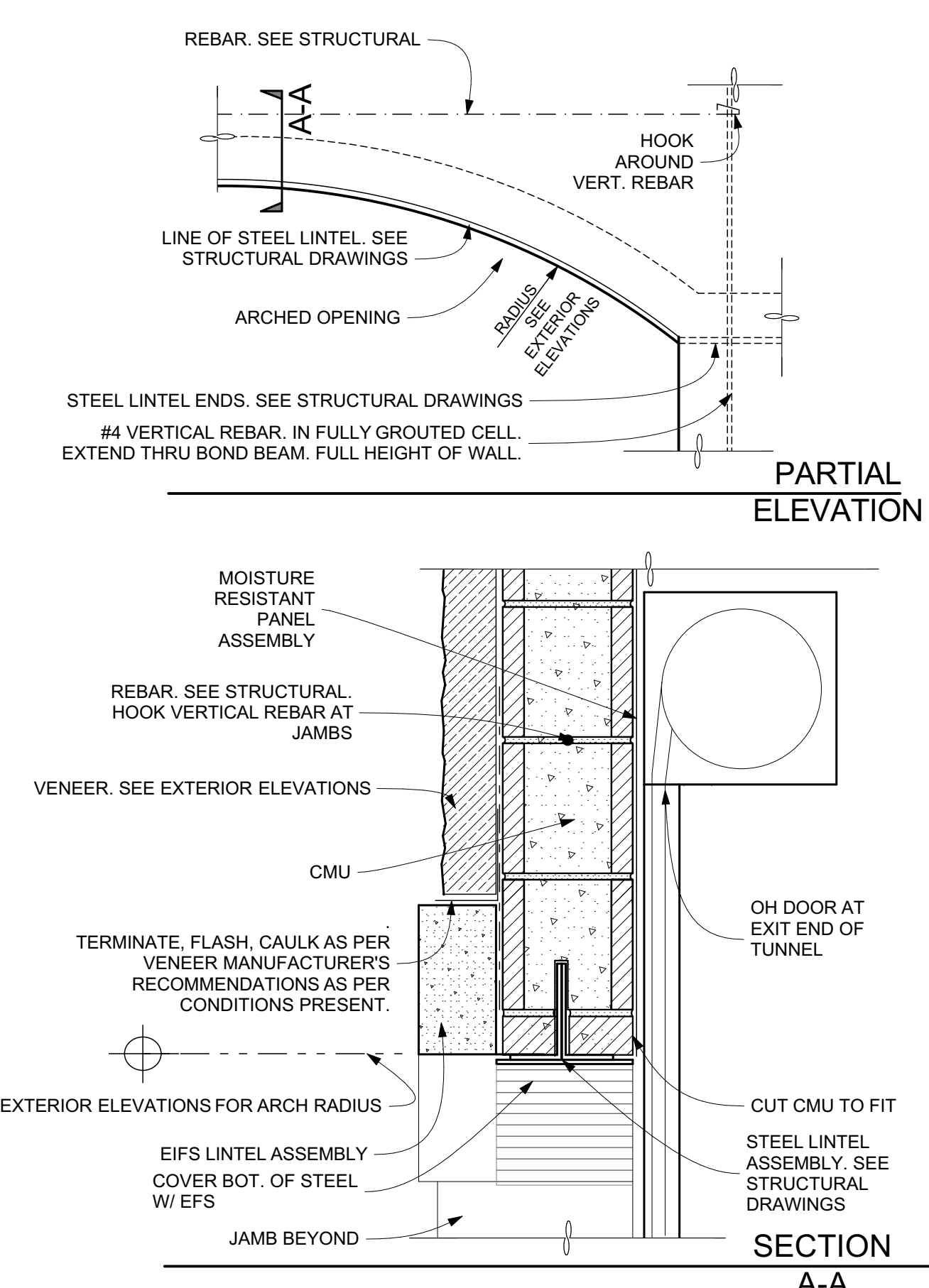
MARK	DATE	DESCRIPTION
SHEET TITLE		
<b>DOOR &amp; WINDOW SCHEDULE/DETAILS</b>		
PROJECT DATE: xxxxx		
PROJECT NUMBER: ##		
DRAWN BY: Name		
<b>A3.1</b>		



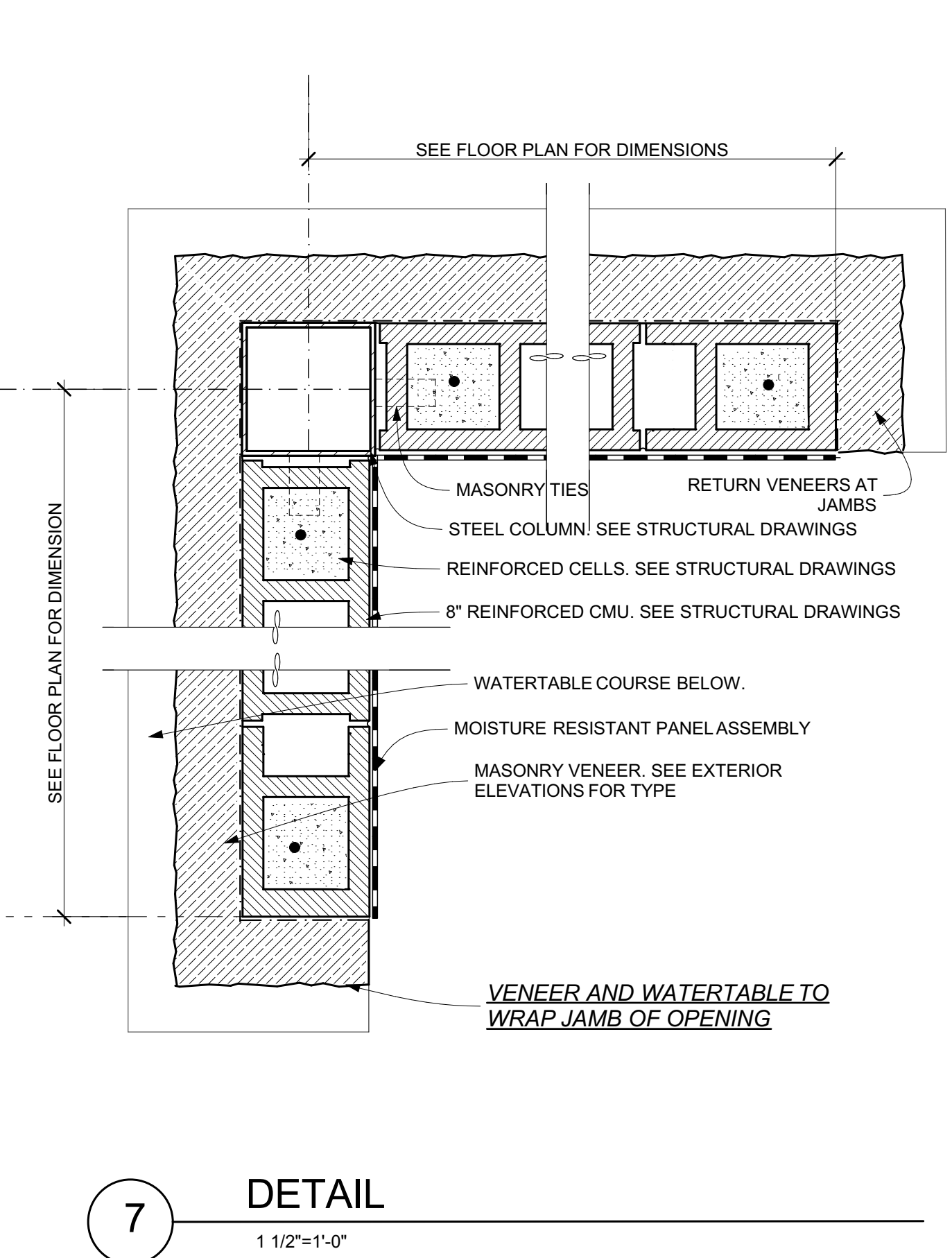




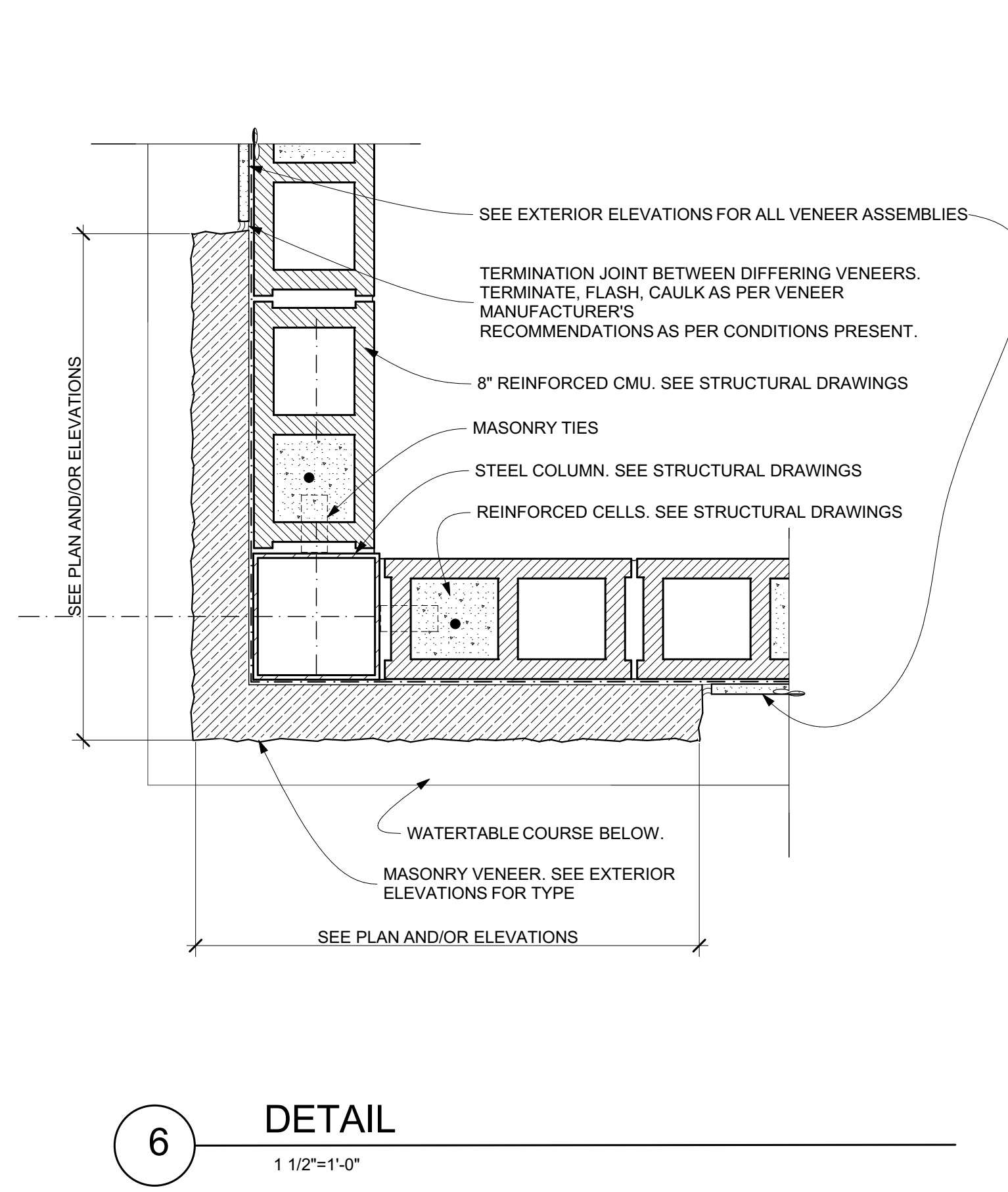
1 OVERALL BUILDING SECTION THRU WASH TUNNEL  
SCALE: 1/4" = 1'-0"



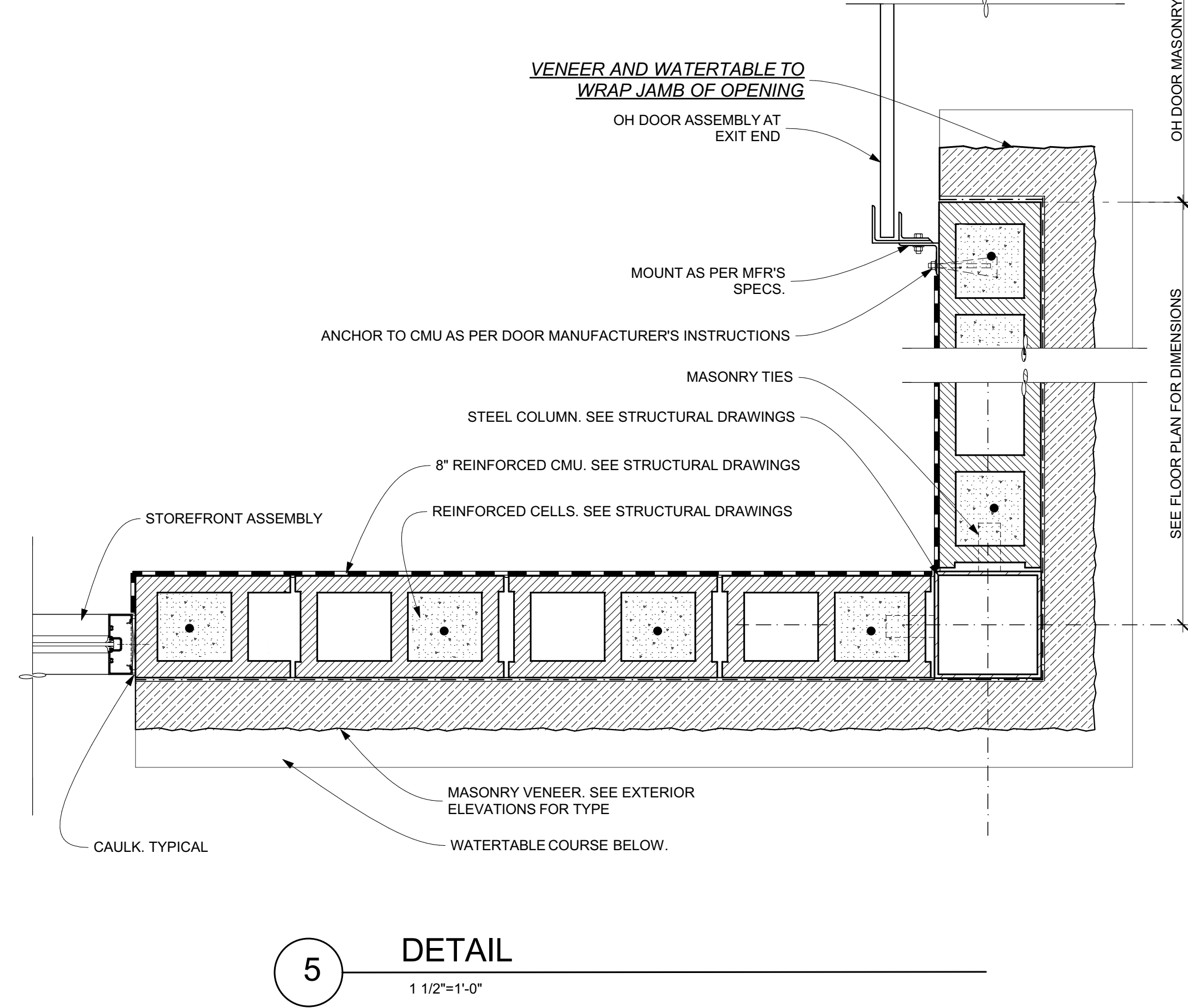
8 DETAIL - ARCHED HEADER  
1 1/2" = 1'-0"



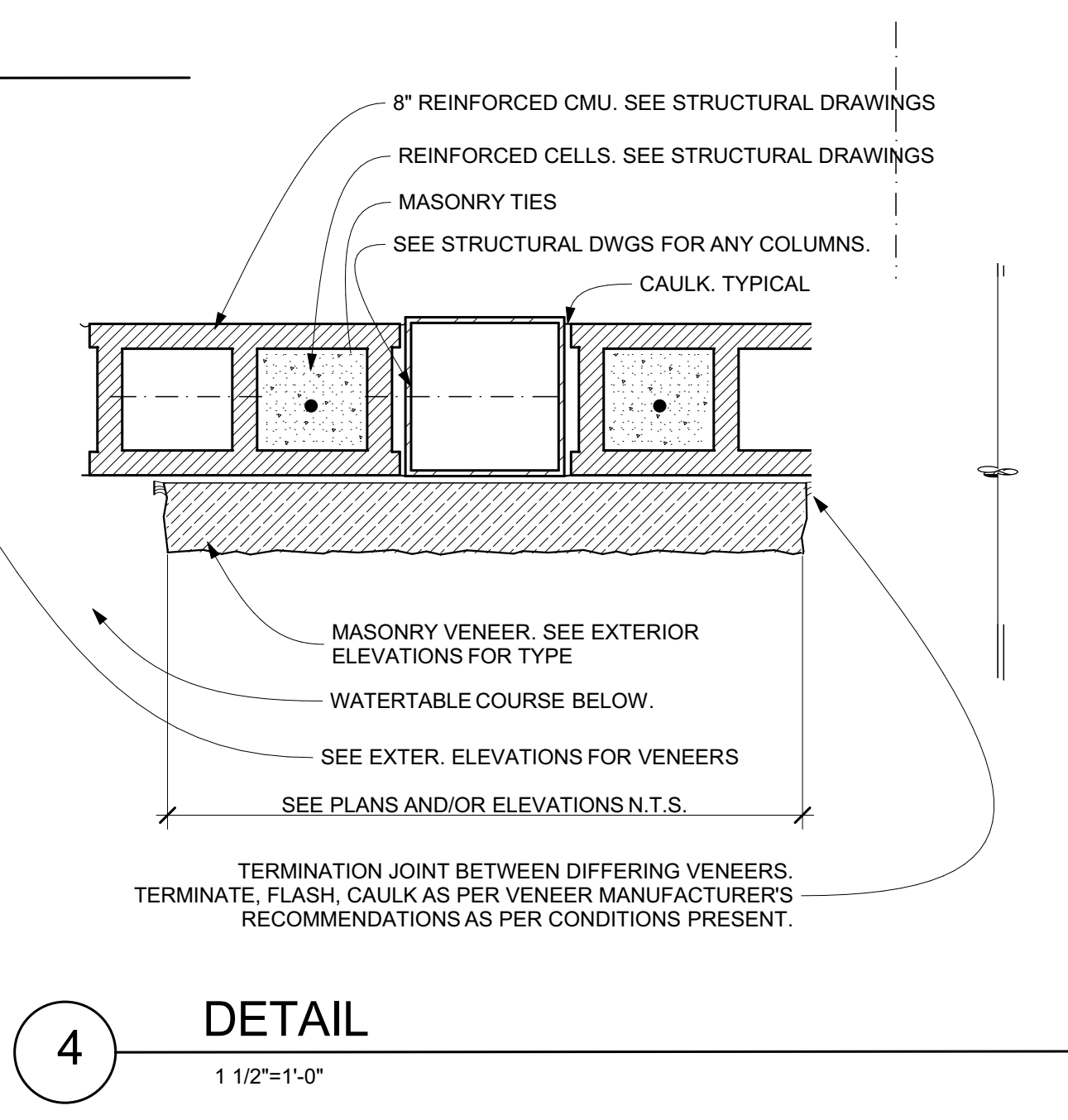
7 DETAIL  
1 1/2" = 1'-0"



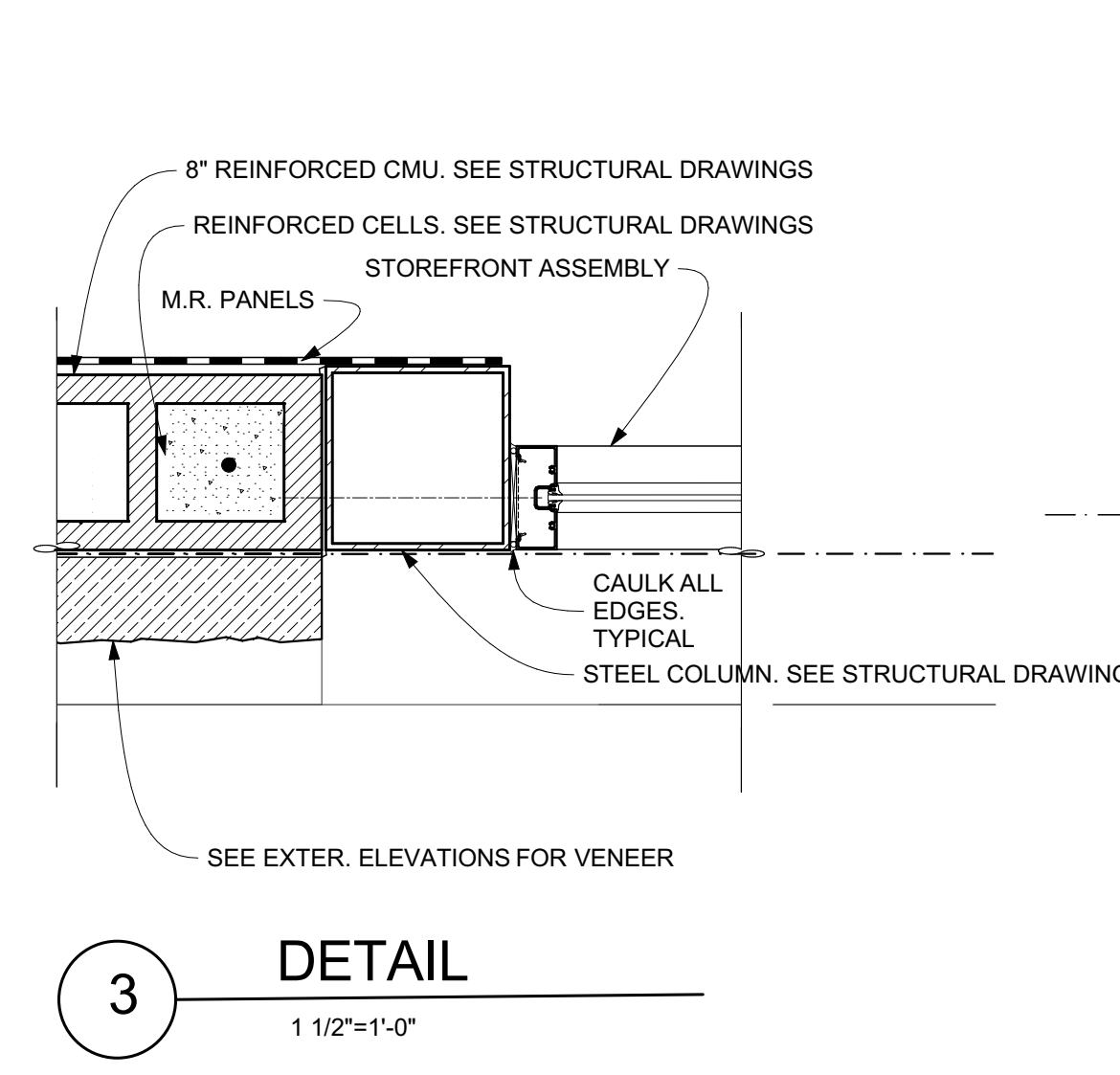
6 DETAIL  
1 1/2" = 1'-0"



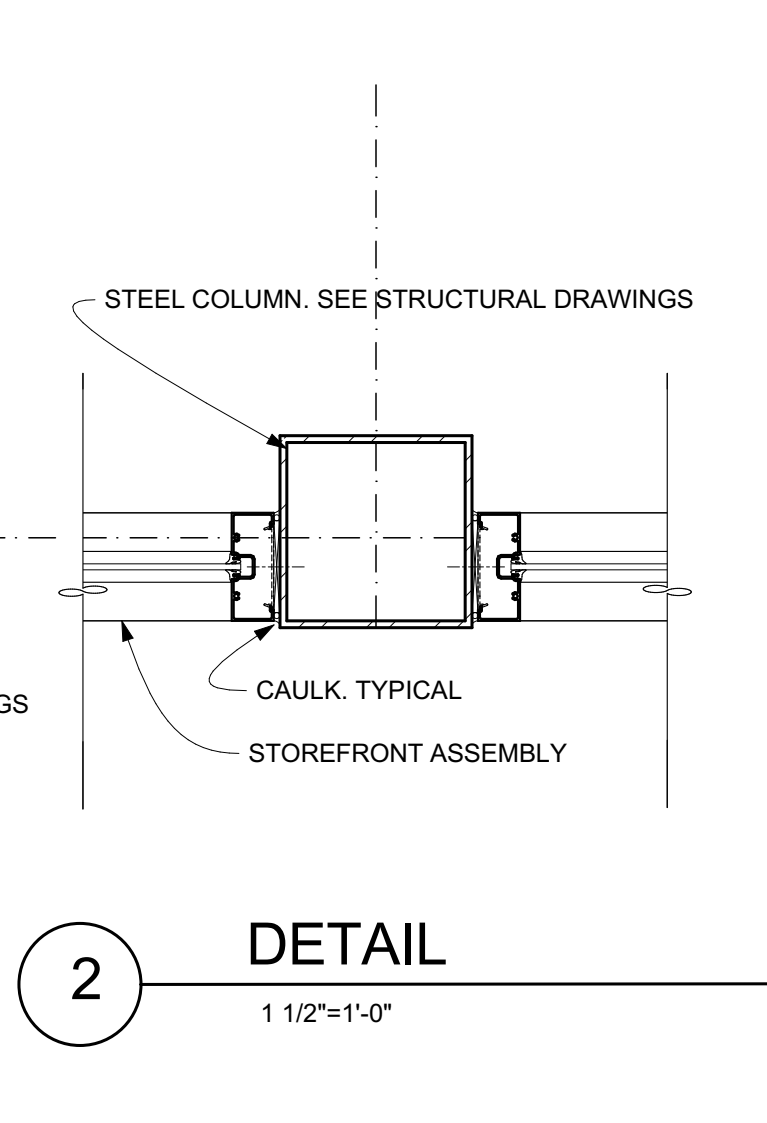
5 DETAIL  
1 1/2" = 1'-0"



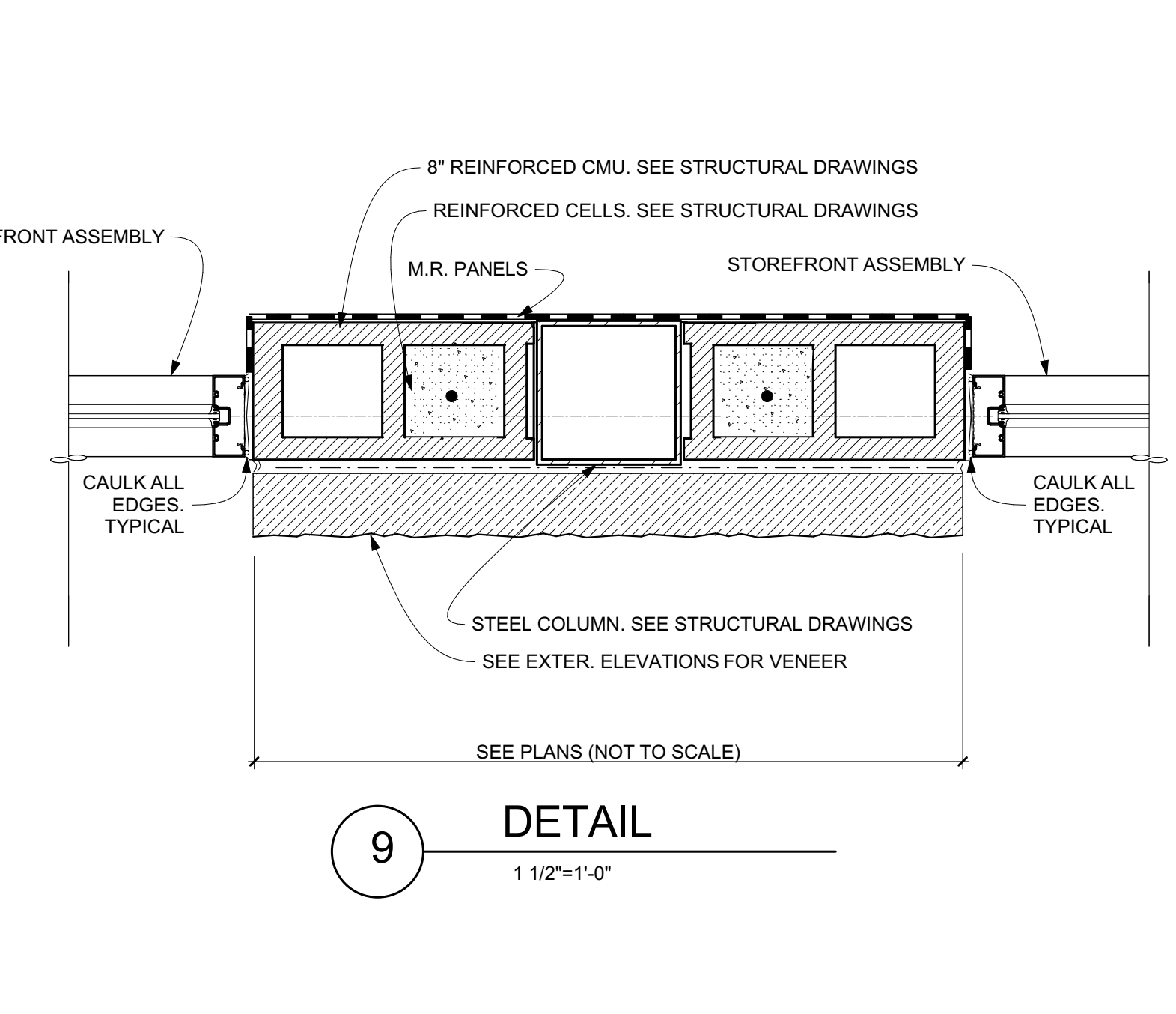
4 DETAIL  
1 1/2" = 1'-0"



3 DETAIL  
1 1/2" = 1'-0"

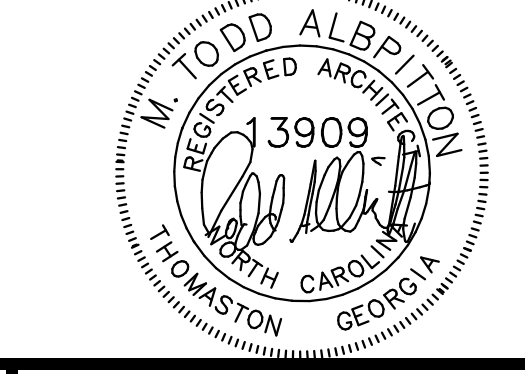


2 DETAIL  
1 1/2" = 1'-0"



9 DETAIL  
1 1/2" = 1'-0"

M. TODD ALBRITTON  
ARCHITECT  
202 EAST MAIN STREET  
THOMASTON, GEORGIA  
30286  
PH 770-550-3275  
mtoddalbrittonarchitect@gmail.com



NEW TIDAL WAVE  
AUTO SPA  
US 401  
ROLESVILLE, NC

OWNER:  
TIDAL WAVE AUTO SPA  
EAST THOMPSON STREET  
THOMASTON GEORGIA  
30286



MARK	DATE	DESCRIPTION

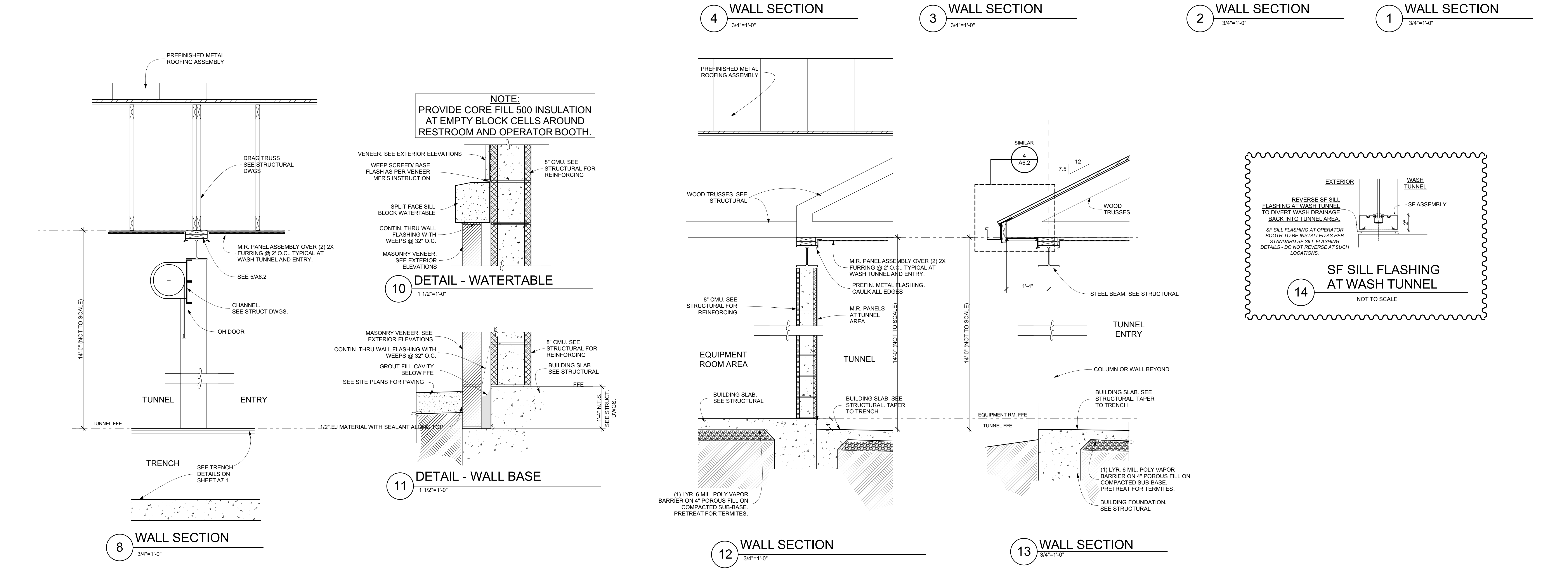
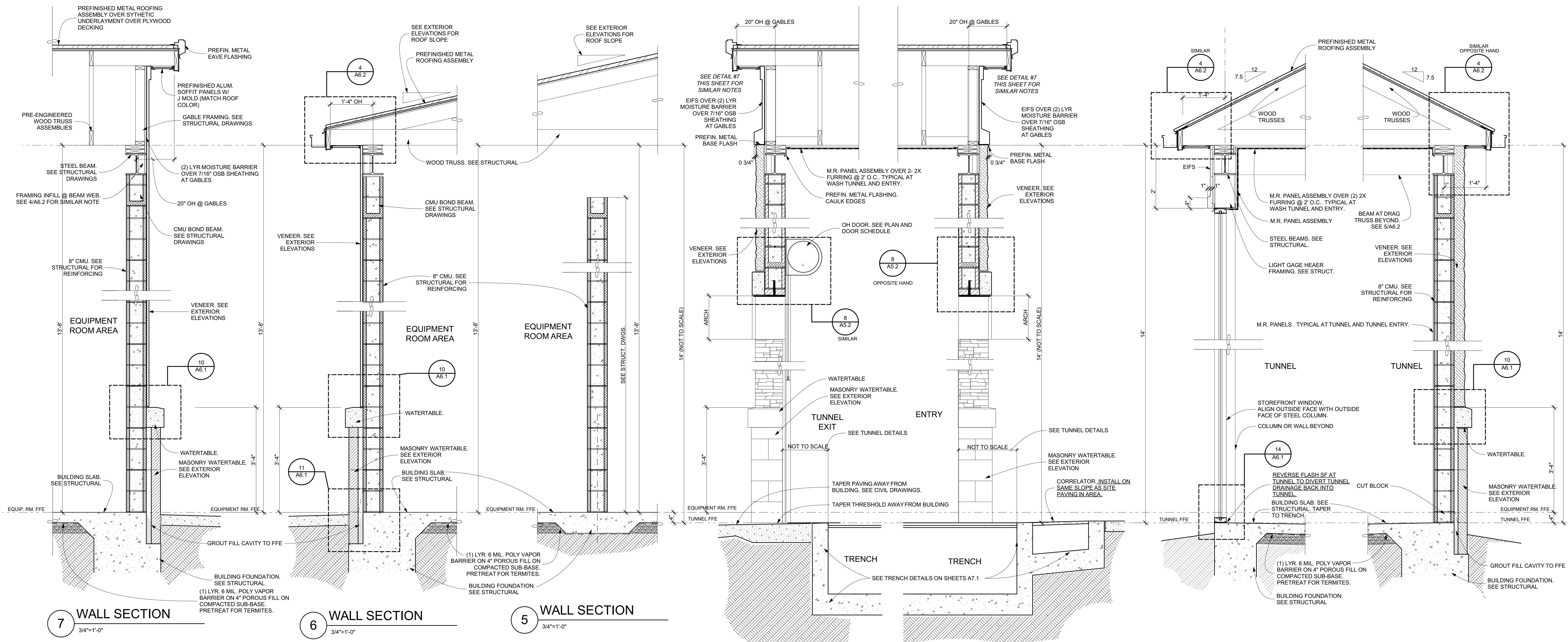
SHEET TITLE  
BUILDING SECTION

PROJECT DATE: #####

PROJECT NUMBER: ##

DRAWN BY: Name

A5.2

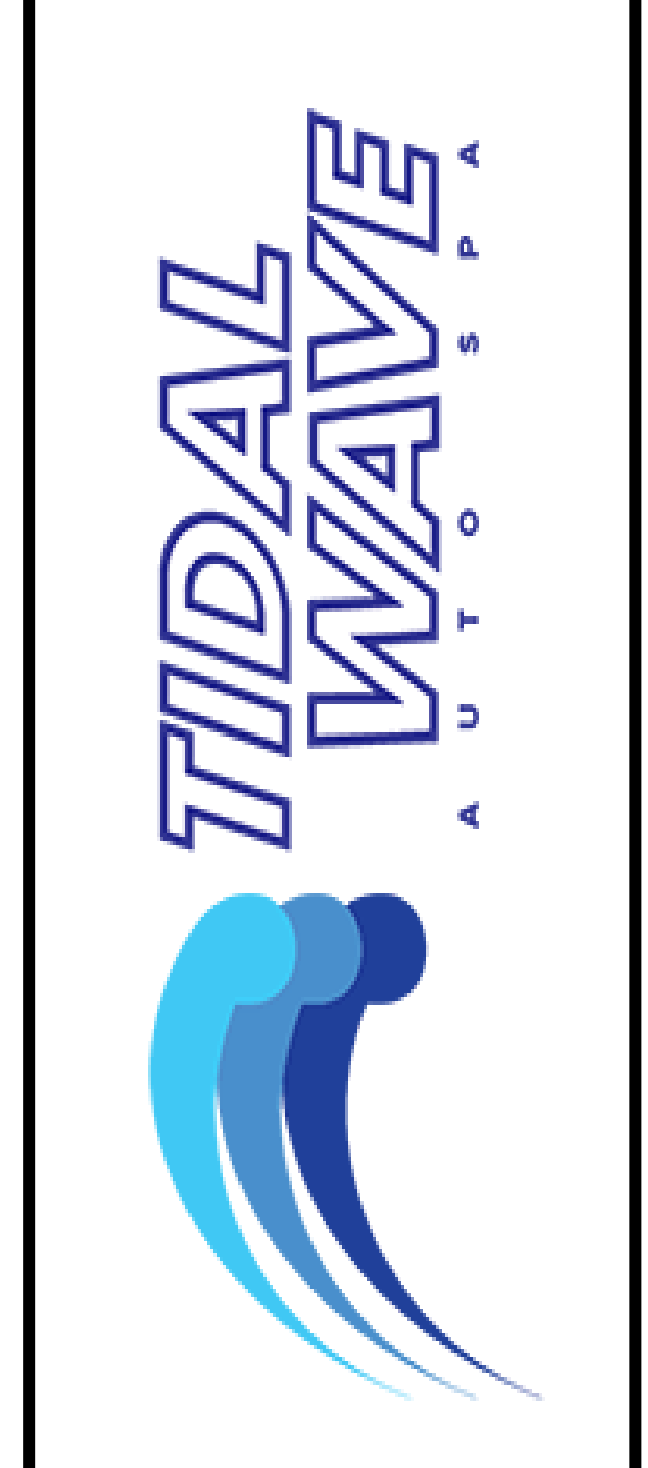


**M. TODD ALBRITTON**  
**ARCHITECT**  
 202 EAST MAIN STREET  
 THOMASTON, GEORGIA  
 30286  
 PH 770-550-3275  
 mtoddalbritionarchitect@gmail.com

THESE DESIGNS AND DRAWINGS AS INSTRUMENTS OF SERVICE ARE THE PROPERTY OF THE ARCHITECT AND SHALL NOT BE COPIED OR REUSED IN ANY FORM WITHOUT THE WRITTEN PERMISSION OF THE ARCHITECT. THESE DRAWINGS SHALL BE USED ONLY AT THE ORIGINAL PROJECT LOCATION AND SHALL NOT BE REUSED AT OTHER LOCATIONS.

**NEW TIDAL WAVE AUTO SPA**  
 US 401  
 ROLESVILLE, NC

OWNER:  
**TIDAL WAVE AUTO SPA**  
 EAST THOMPSON STREET  
 THOMASTON, GEORGIA  
 30286

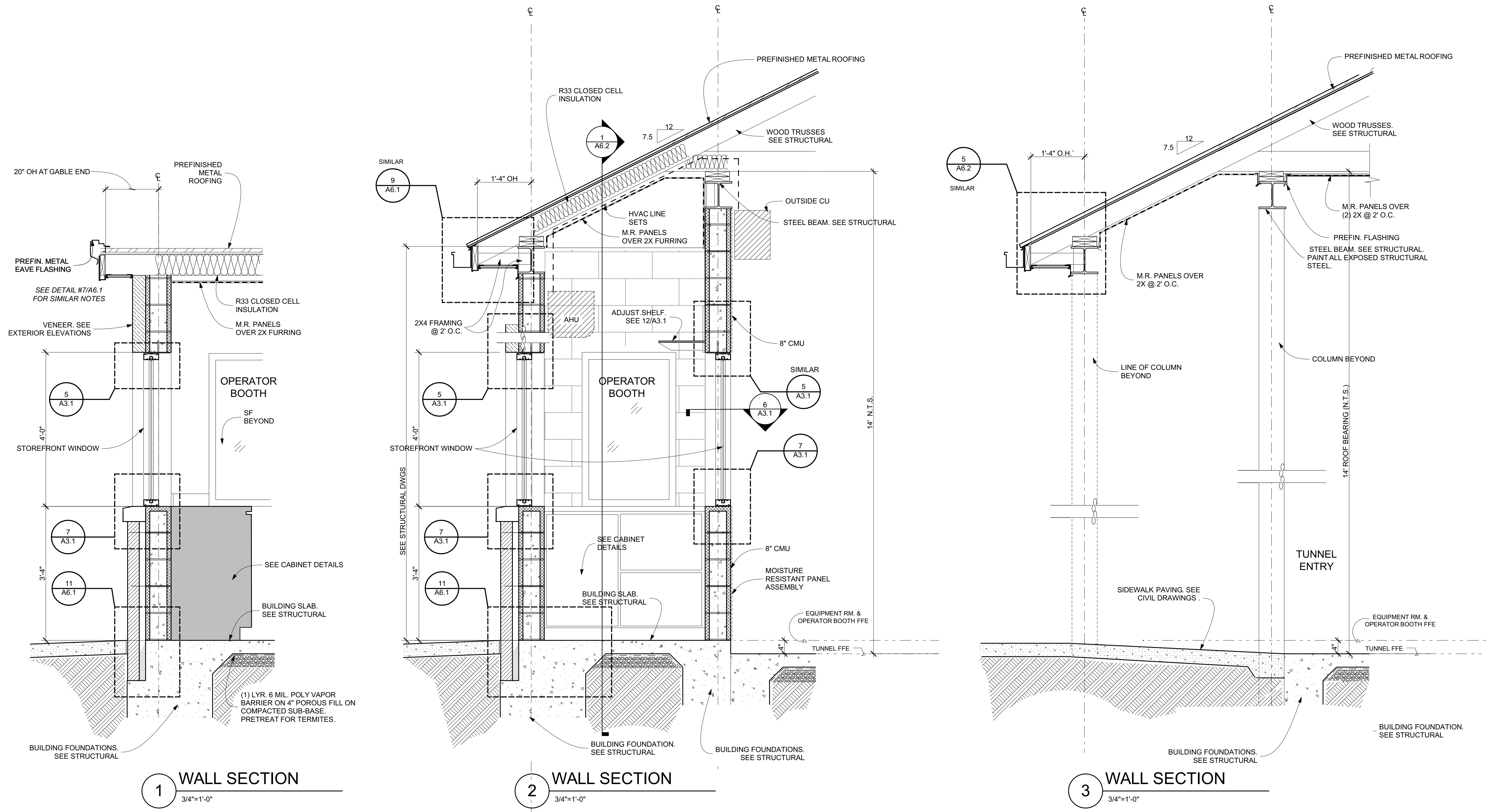


MARK	DATE	DESCRIPTION

SHEET TITLE  
**SECTIONS/DETAILS**

PROJECT DATE: xxxxxx  
 PROJECT NUMBER: ##  
 DRAWN BY: Name

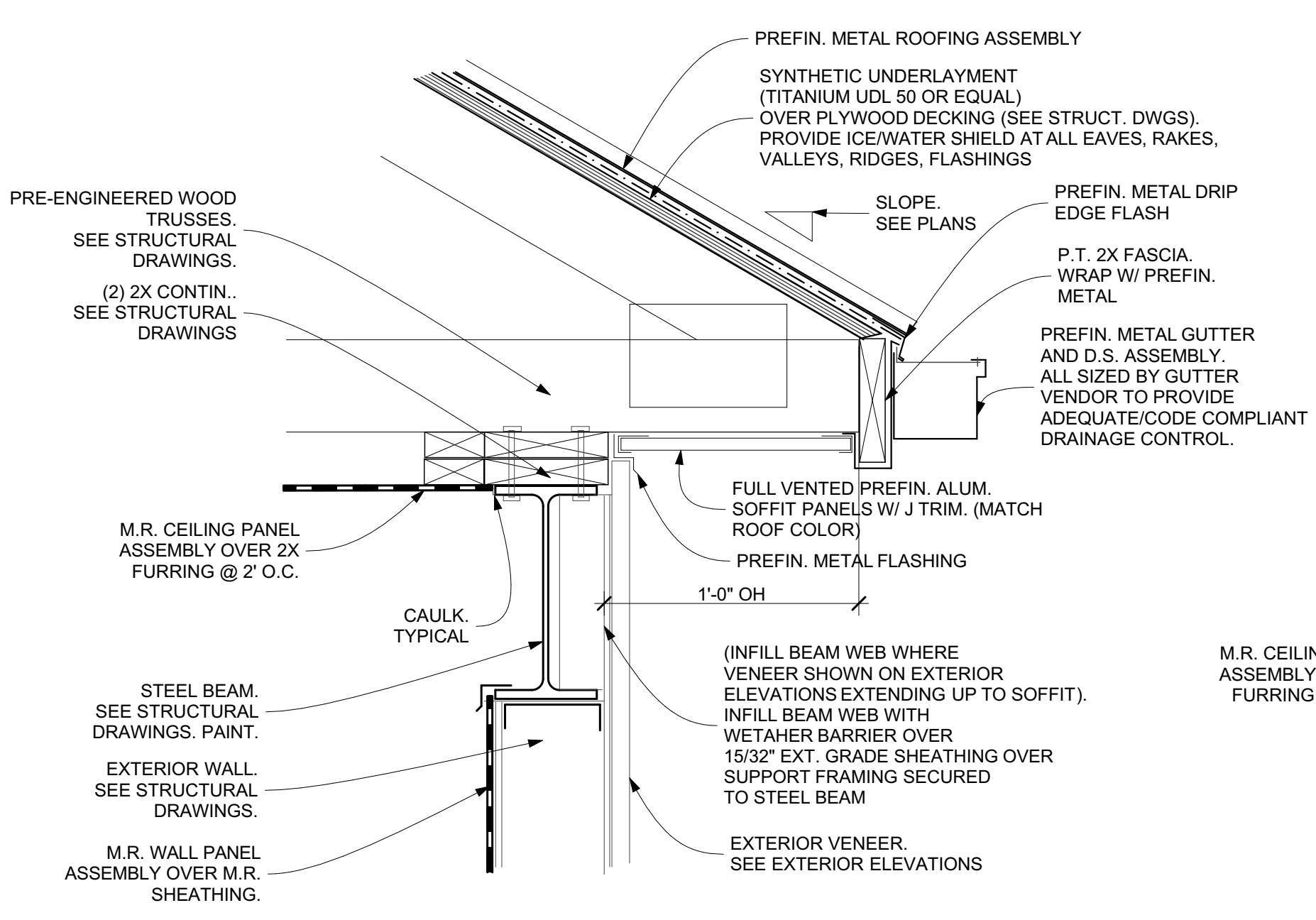
**A6.1**



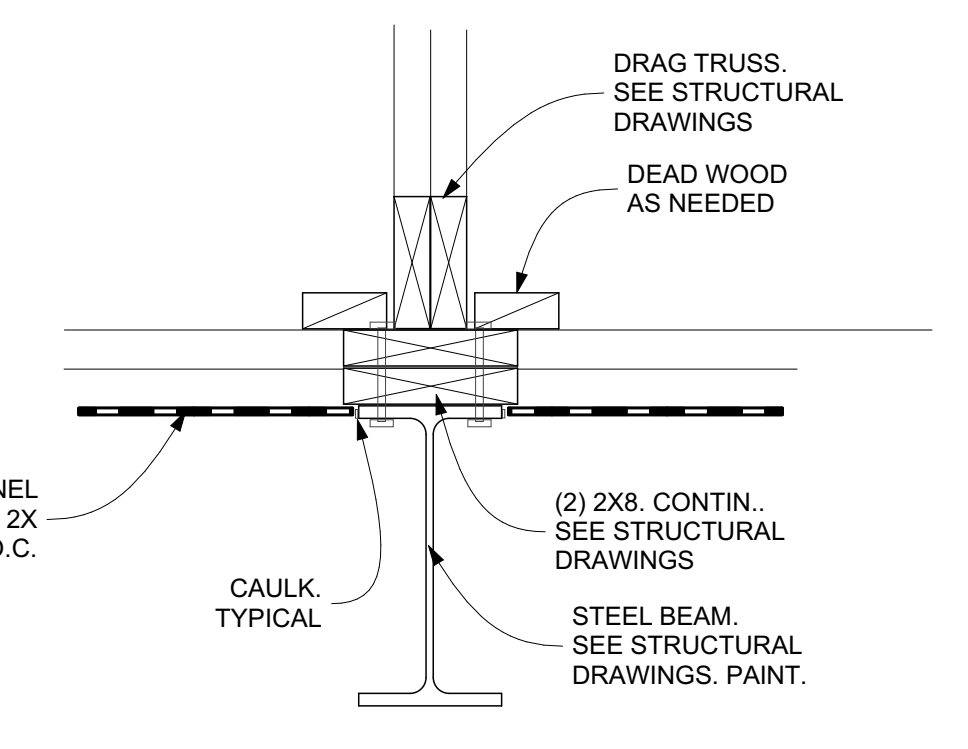
**1 WALL SECTION**  
3/4"=1'-0"

**2 WALL SECTION**  
3/4"=1'-0"

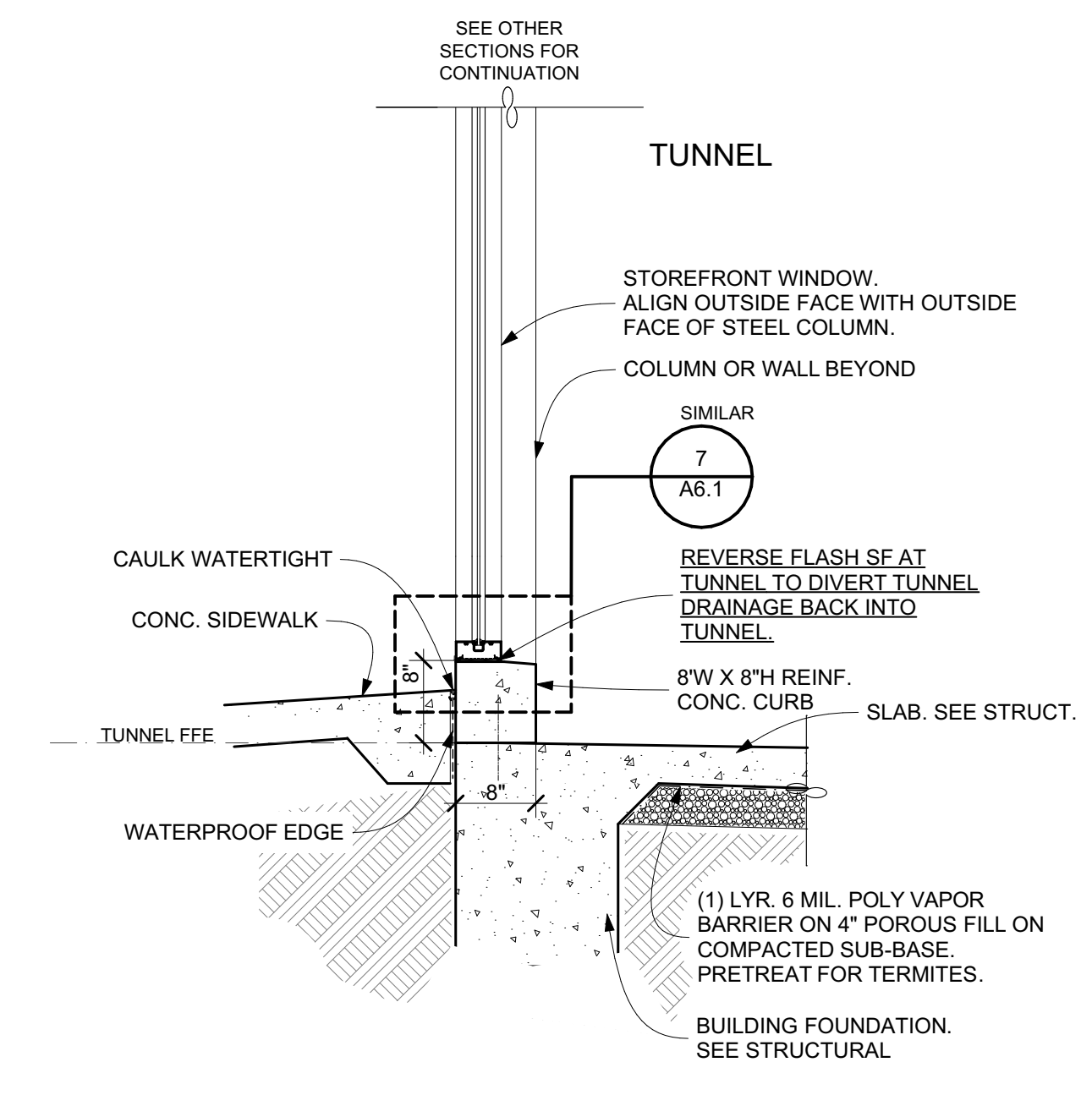
**3 WALL SECTION**  
3/4"=1'-0"



**4 DETAIL - TYPICAL OVERHANG**  
NO SCALE



**5 DETAIL - DRAG TRUSS/BEAM**  
NO SCALE



**7 WALL SECTION**  
3/4"=1'-0"

**M. TODD ALBRITTON ARCHITECT**  
 202 EAST MAIN STREET  
 THOMASTON, GEORGIA 30286  
 PH 770-550-3275  
 mtoddalbrittonarchitect@gmail.com

REGISTERED ARCHITECT  
 3909  
 THOMASTON, GEORGIA

**NEW TIDAL WAVE AUTO SPA**  
 US 401  
 ROLESVILLE, NC

OWNER:  
**TIDAL WAVE AUTO SPA**  
 EAST THOMPSON STREET  
 THOMASTON, GEORGIA 30286

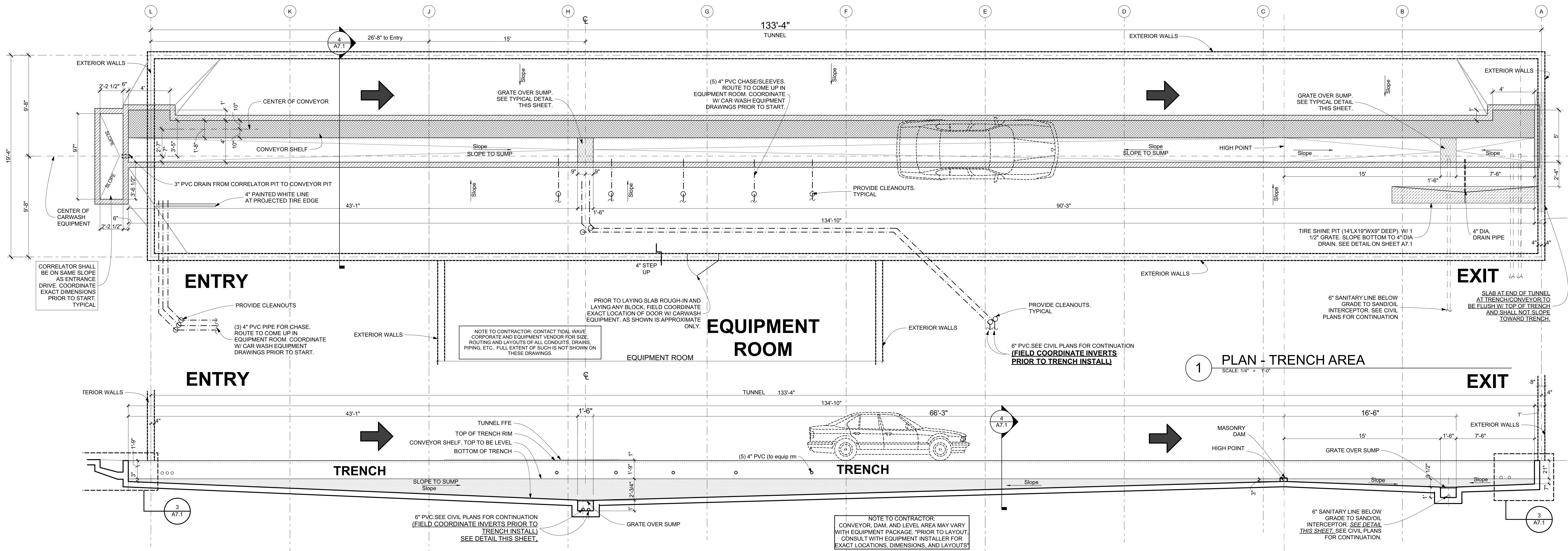


MARK	DATE	DESCRIPTION

BUILD: SEE ST

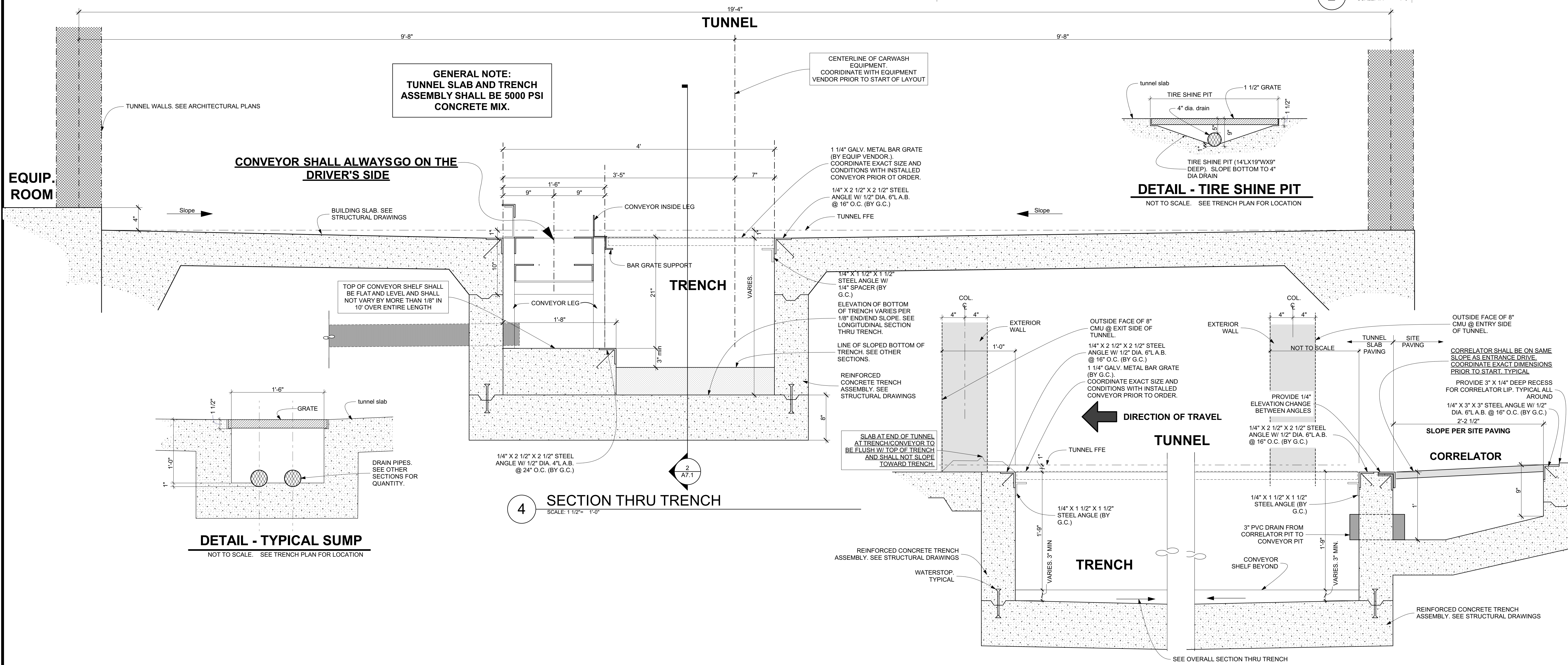
SHEET TITLE  
**SECTIONS/DETAILS**

PROJECT DATE: xxxxx  
 PROJECT NUMBER: ##  
 DRAWN BY: Name



1 PLAN - TRENCH AREA  
SCALE: 1/4" = 1'-0"

2 OVERALL SECTION THRU TRENCH  
SCALE: 1/4" = 1'-0"



3 SECTION THRU TRENCH  
SCALE: 1 1/2" = 1'-0"

4 SECTION THRU TRENCH  
SCALE: 1 1/2" = 1'-0"

DETAIL - TIRE SHINE PIT  
NOT TO SCALE. SEE TRENCH PLAN FOR LOCATION

DETAIL - TYPICAL SUMP  
NOT TO SCALE. SEE TRENCH PLAN FOR LOCATION

GENERAL NOTE:  
TUNNEL SLAB AND TRENCH  
ASSEMBLY SHALL BE 5000 PSI  
CONCRETE MIX.

CONVEYOR SHALL ALWAYS GO ON THE  
DRIVER'S SIDE

CENTERLINE OF CARWASH  
EQUIPMENT  
COORDINATE WITH EQUIPMENT  
VENDOR PRIOR TO START OF LAYOUT

1 1/4" GALV. METAL BAR GRATE  
(BY EQUIP. VENDOR)  
COORDINATE EXACT SIZE AND  
CONDITIONS WITH INSTALLED  
CONVEYOR PRIOR TO ORDER.

1/4" X 1 1/2" X 1 1/2"  
STEEL ANGLE W/ 1/4" SPACER (BY  
G.C.)  
ELEVATION OF BOTTOM  
OF TRENCH VARIES PER  
1/8" ENDSIDE SLOPE. SEE  
LONGITUDINAL SECTION  
THRU TRENCH.

REINFORCED CONCRETE TRENCH  
ASSEMBLY. SEE  
STRUCTURAL DRAWINGS

SLAB AT END OF TUNNEL  
AT TRENCH/CONVEYOR TO  
BE FLUSH W/ TOP OF TRENCH  
AND SHALL NOT SLOPE  
TOWARD TRENCH.

OUTSIDE FACE OF 8"  
CMU @ EXIT SIDE OF  
TUNNEL.

1/4" X 2 1/2" X 2 1/2" STEEL  
ANGLE W/ 1/2" DIA. 6" L.A.B.  
@ 16" O.C. (BY G.C.)

1 1/4" GALV. METAL BAR GRATE  
(BY G.C.)  
COORDINATE EXACT SIZE AND  
CONDITIONS WITH INSTALLED  
CONVEYOR PRIOR TO ORDER.

1/4" X 1 1/2" X 1 1/2"  
STEEL ANGLE (BY  
G.C.)

3" PVC DRAIN FROM  
CORRELATOR PIT TO  
CONVEYOR PIT

REINFORCED CONCRETE TRENCH  
ASSEMBLY. SEE STRUCTURAL DRAWINGS

OUTSIDE FACE OF 8"  
CMU @ ENTRY SIDE  
OF TUNNEL.

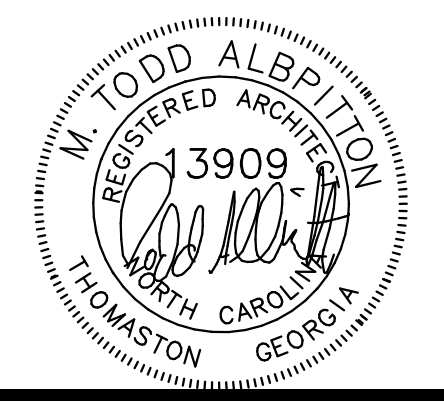
CORRELATOR SHALL BE ON SAME  
SLOPE AS ENTRANCE DRIVE.  
COORDINATE EXACT  
DIMENSIONS  
PRIOR TO START. TYPICAL.

PROVIDE 3" X 1/4" DEEP RECESS  
FOR CORRELATOR LIP. TYPICAL ALL  
AROUND

1/4" X 3" X 3" STEEL ANGLE W/ 1/2"  
DIA. 6" L.A.B. @ 16" O.C. (BY G.C.)

2-2 1/2"

SLOPE PER SITE PAVING



M. TODD ALBRITTON  
ARCHITECT  
202 EAST MAIN STREET  
THOMASTON, GEORGIA  
30286  
PH 770-550-3275  
mtoddalbrittonarchitect@gmail.com

NEW TIDAL WAVE  
AUTO SPA  
US 401  
ROLESVILLE, NC

OWNER:  
TIDAL WAVE AUTO  
SPA  
EAST THOMPSON STREET  
THOMASTON GEORGIA  
30286

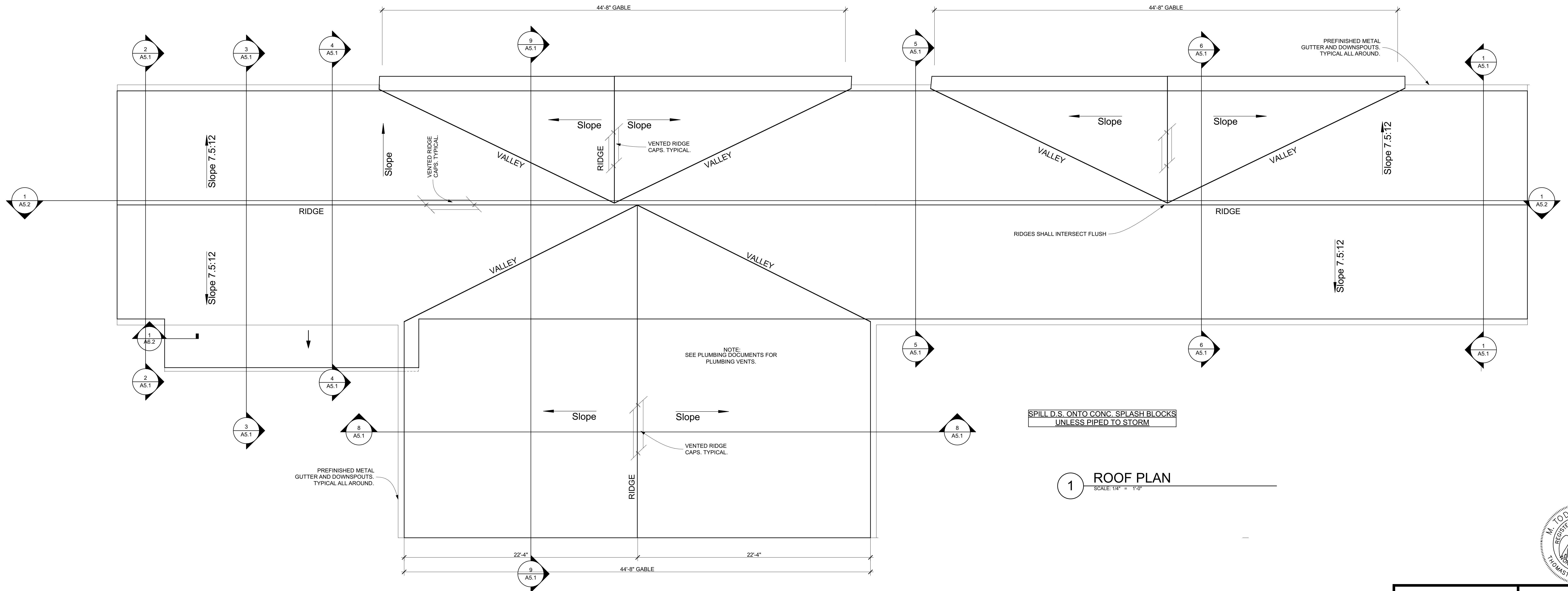


MARK	DATE	DESCRIPTION

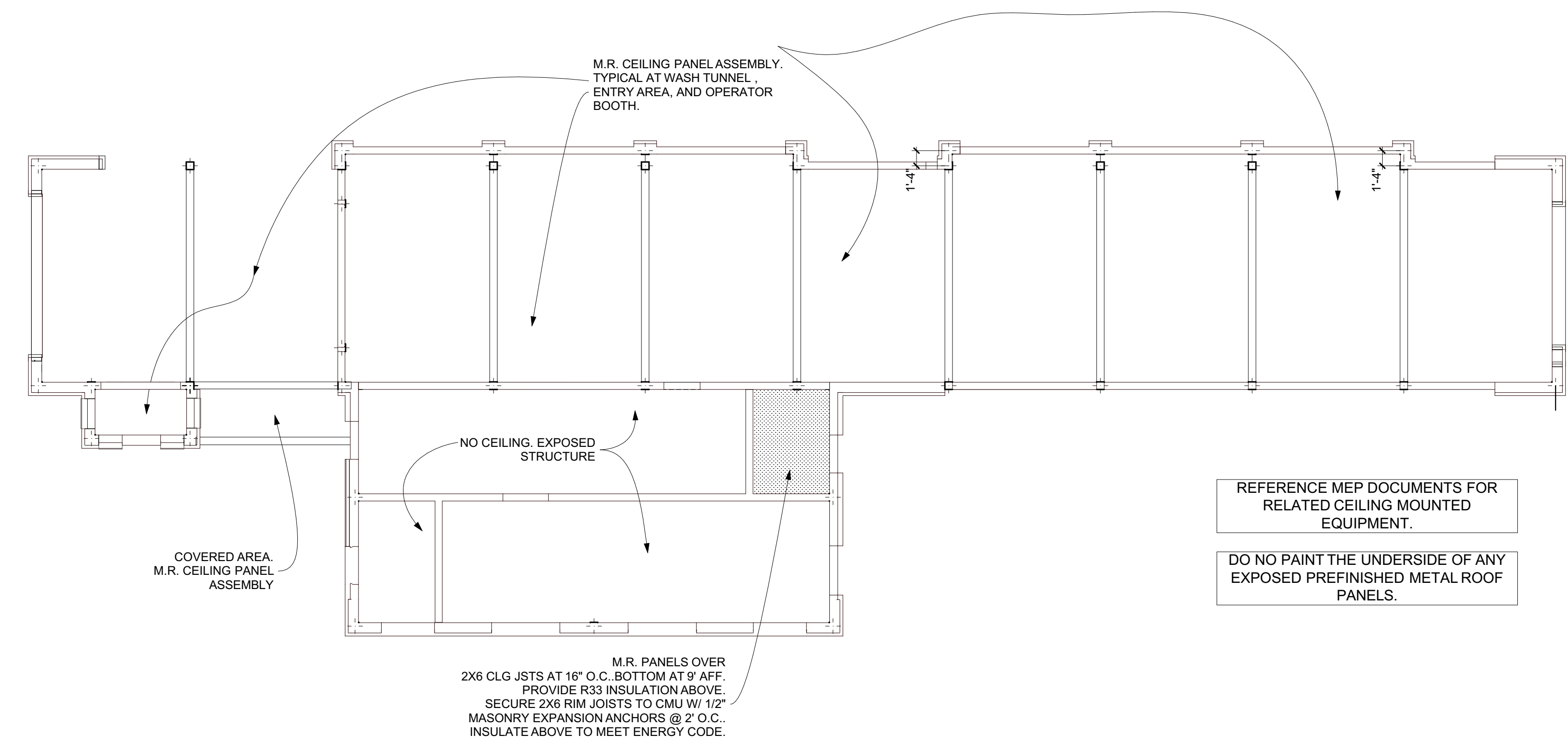
SHEET TITLE  
TRENCH DETAILS

PROJECT DATE: #####  
PROJECT NUMBER: ##  
DRAWN BY: Name

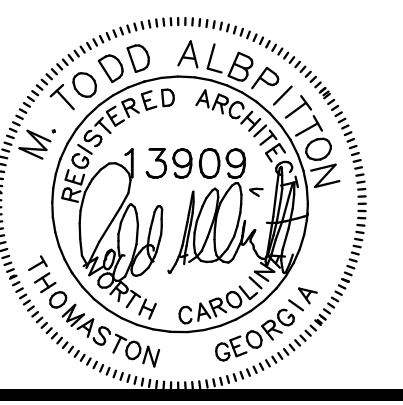
A7.1



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



**2 REFLECTED CEILING PLAN**  
SCALE: 1/8" = 1'-0"



**M. TODD ALBRITTON**  
**ARCHITECT**  
202 EAST MAIN STREET  
THOMASTON, GEORGIA  
30286  
PH 770-550-3275  
mtoddalbrittonarchitect@gmail.com

**NEW TIDAL WAVE**  
**AUTO SPA**  
US 401  
ROLESVILLE, NC

OWNER:  
**TIDAL WAVE AUTO SPA**  
EAST THOMPSON STREET  
THOMASTON GEORGIA  
30286



MARK	DATE	DESCRIPTION

SHEET TITLE  
**ROOF PLAN**

PROJECT DATE: #####

PROJECT NUMBER: ##

DRAWN BY: Name

**A8.1**

REFERENCE MEP DOCUMENTS FOR RELATED CEILING MOUNTED EQUIPMENT.

DO NO PAINT THE UNDERSIDE OF ANY EXPOSED PREFINISHED METAL ROOF PANELS.

M.R. PANELS OVER 2X6 CLG JSTS AT 16" O.C. BOTTOM AT 9' AFF. PROVIDE R33 INSULATION ABOVE. SECURE 2X6 RIM JOISTS TO CMU W/ 1/2" MASONRY EXPANSION ANCHORS @ 2' O.C. INSULATE ABOVE TO MEET ENERGY CODE.

COVERED AREA, M.R. CEILING PANEL ASSEMBLY

M.R. CEILING PANEL ASSEMBLY, TYPICAL AT WASH TUNNEL ENTRY AREA, AND OPERATOR BOOTH.

NOTE: SEE PLUMBING DOCUMENTS FOR PLUMBING VENTS.

SPILL D.S. ONTO CONC. SPLASH BLOCKS UNLESS PIPED TO STORM

PREFINISHED METAL GUTTER AND DOWNSPOUTS, TYPICAL ALL AROUND.

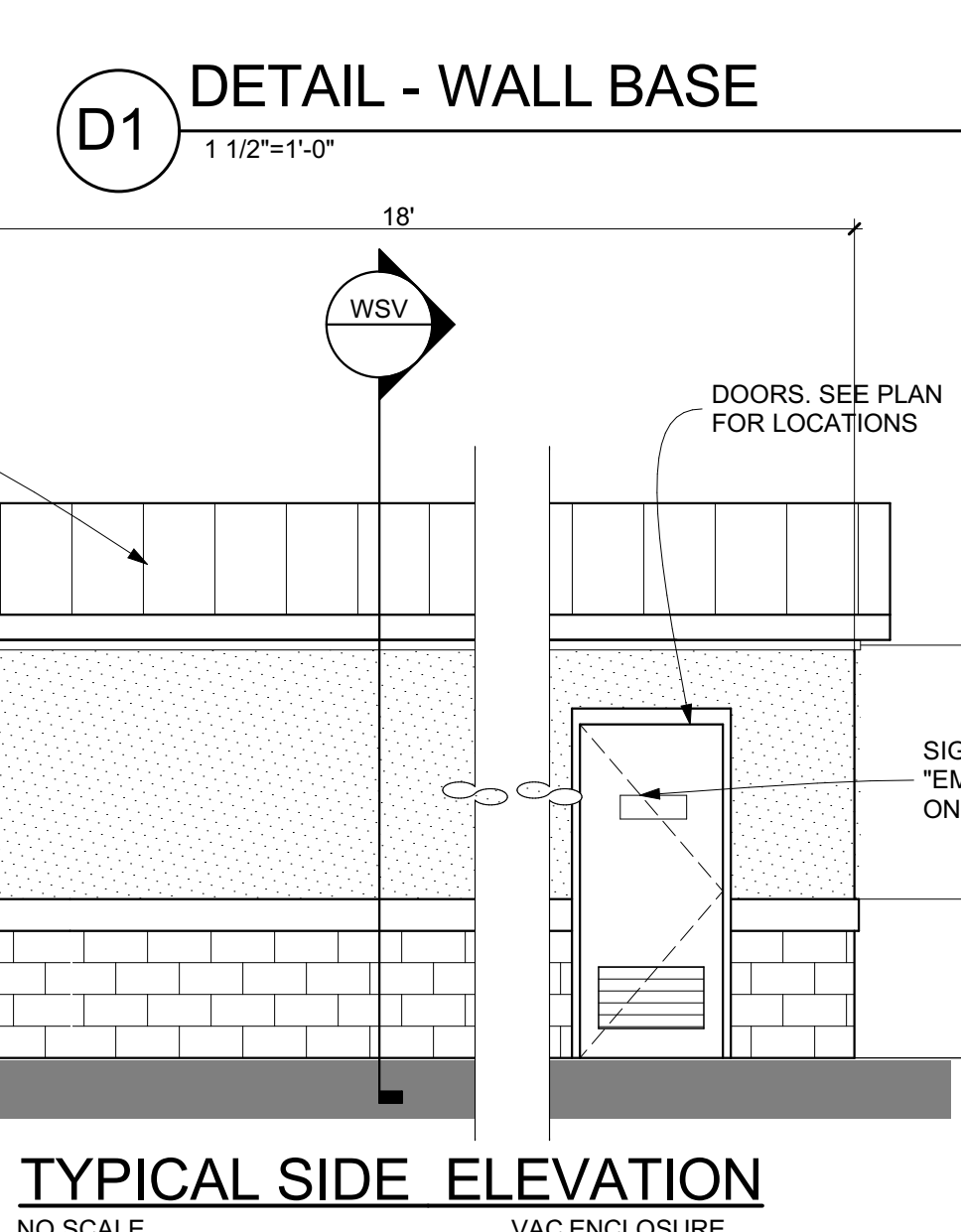
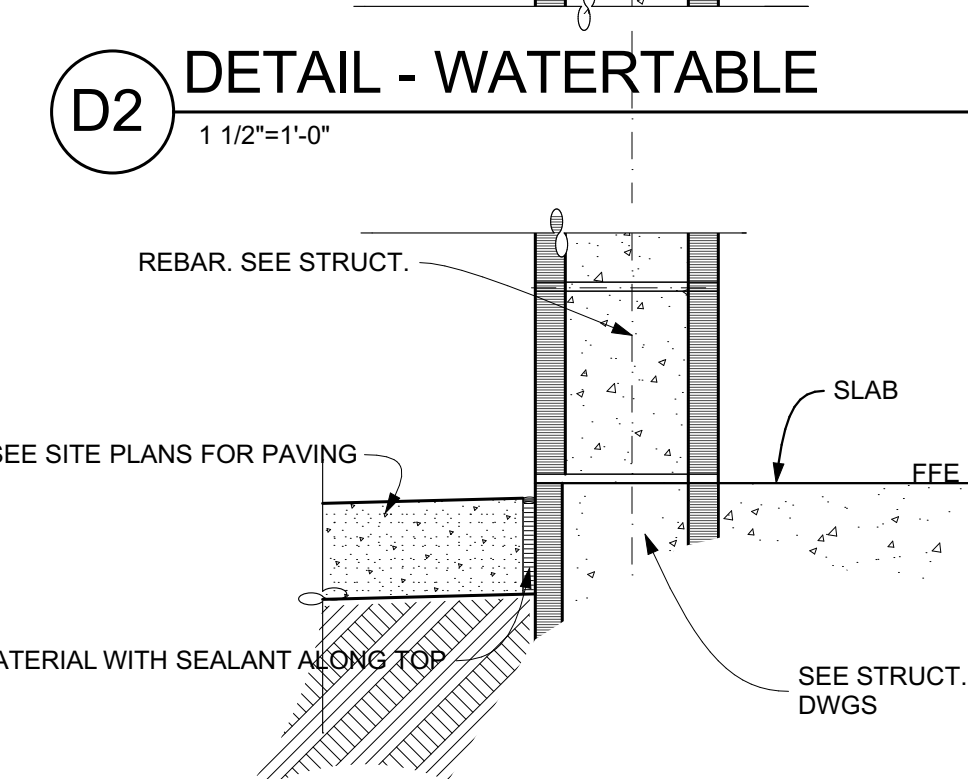
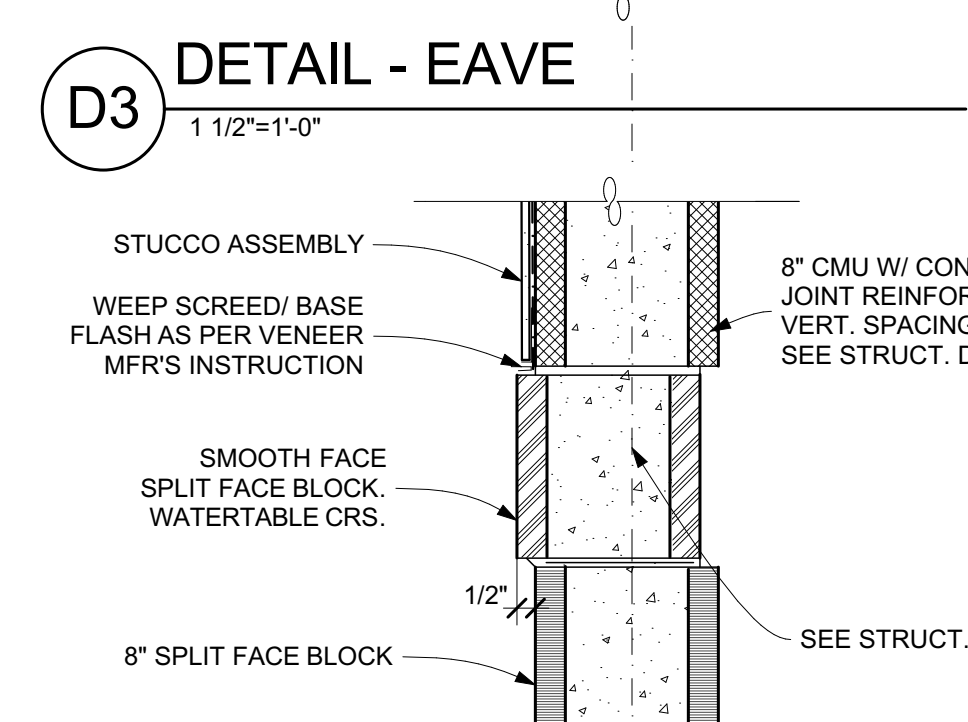
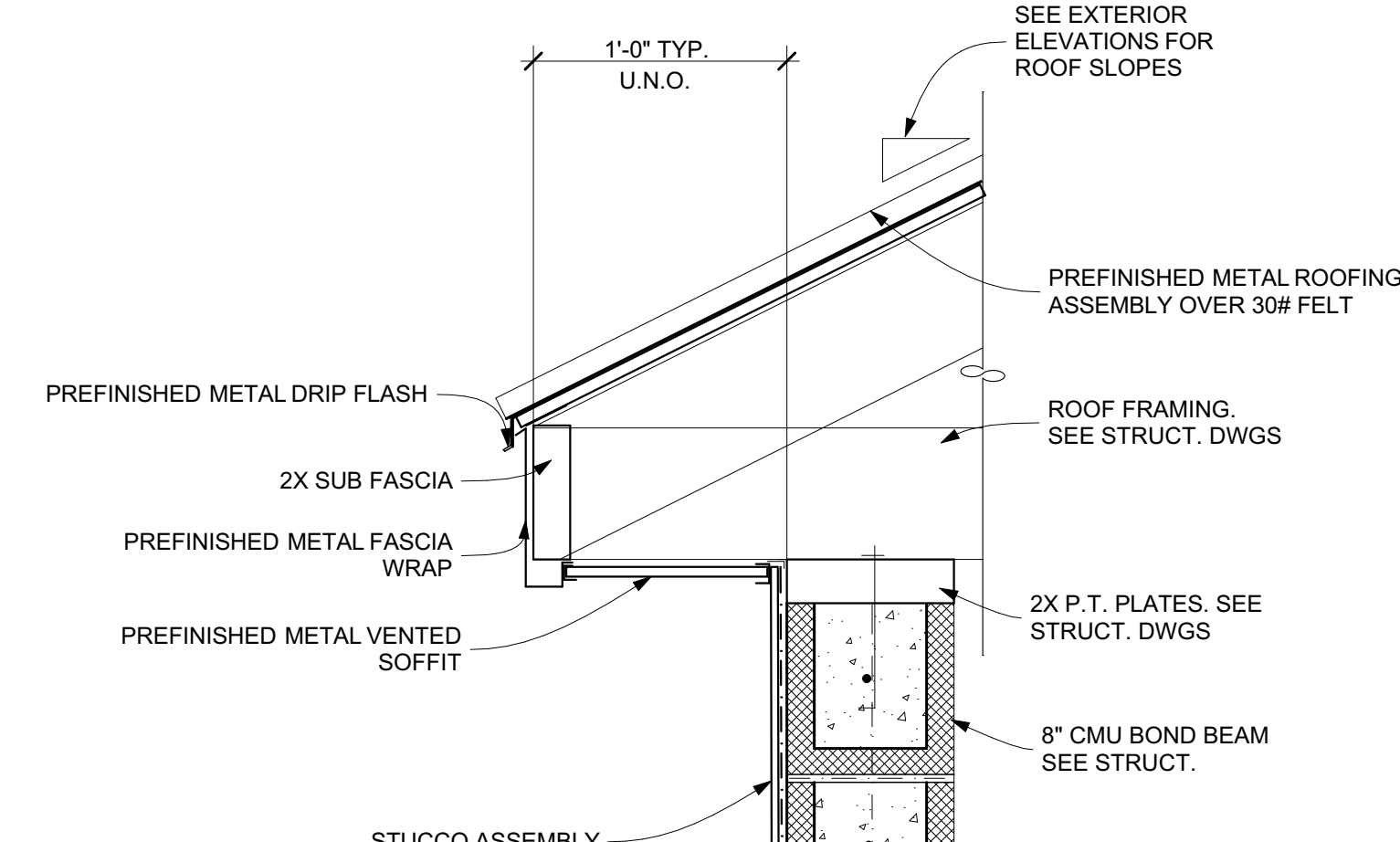
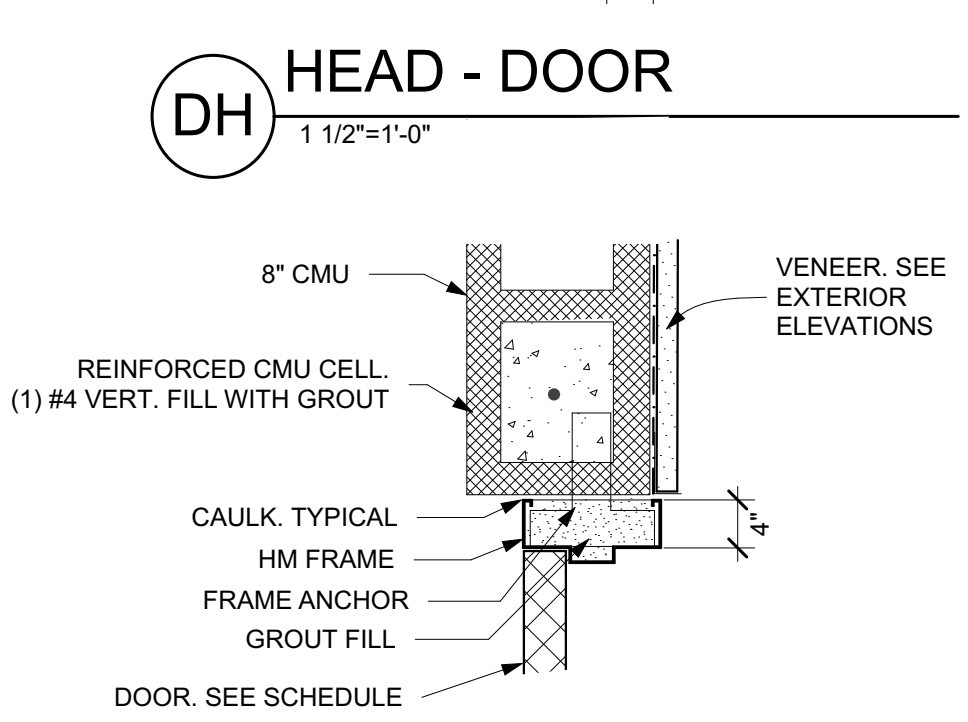
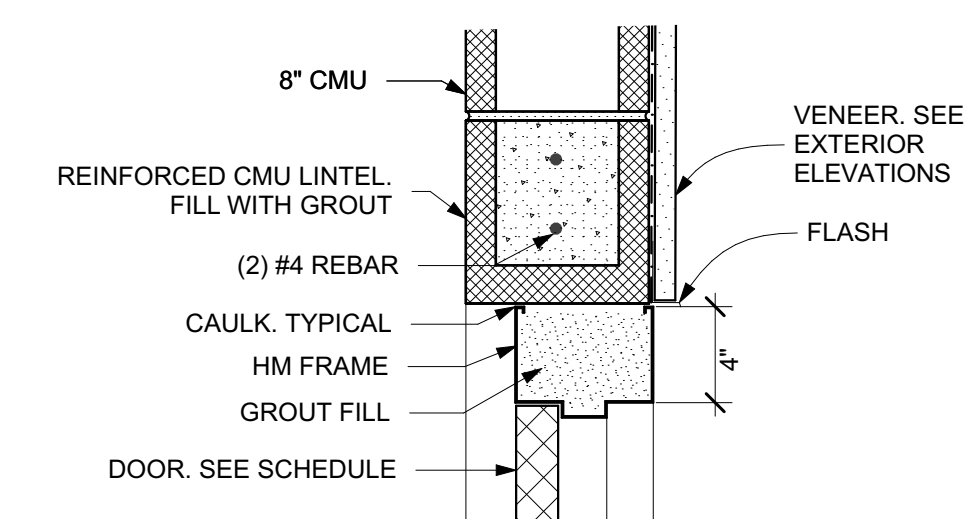
PREFINISHED METAL GUTTER AND DOWNSPOUTS, TYPICAL ALL AROUND.

RIDGES SHALL INTERSECT FLUSH

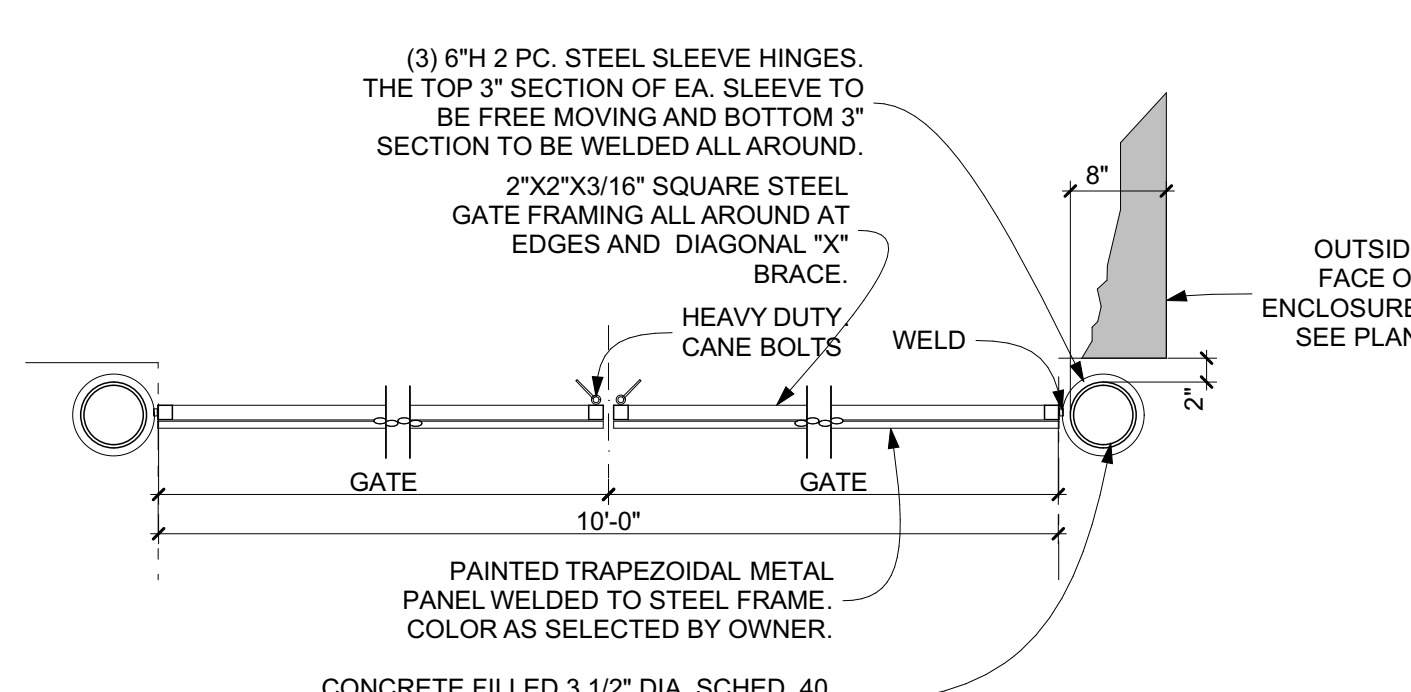
VENTED RIDGE CAPS, TYPICAL.

VENTED RIDGE CAPS, TYPICAL.

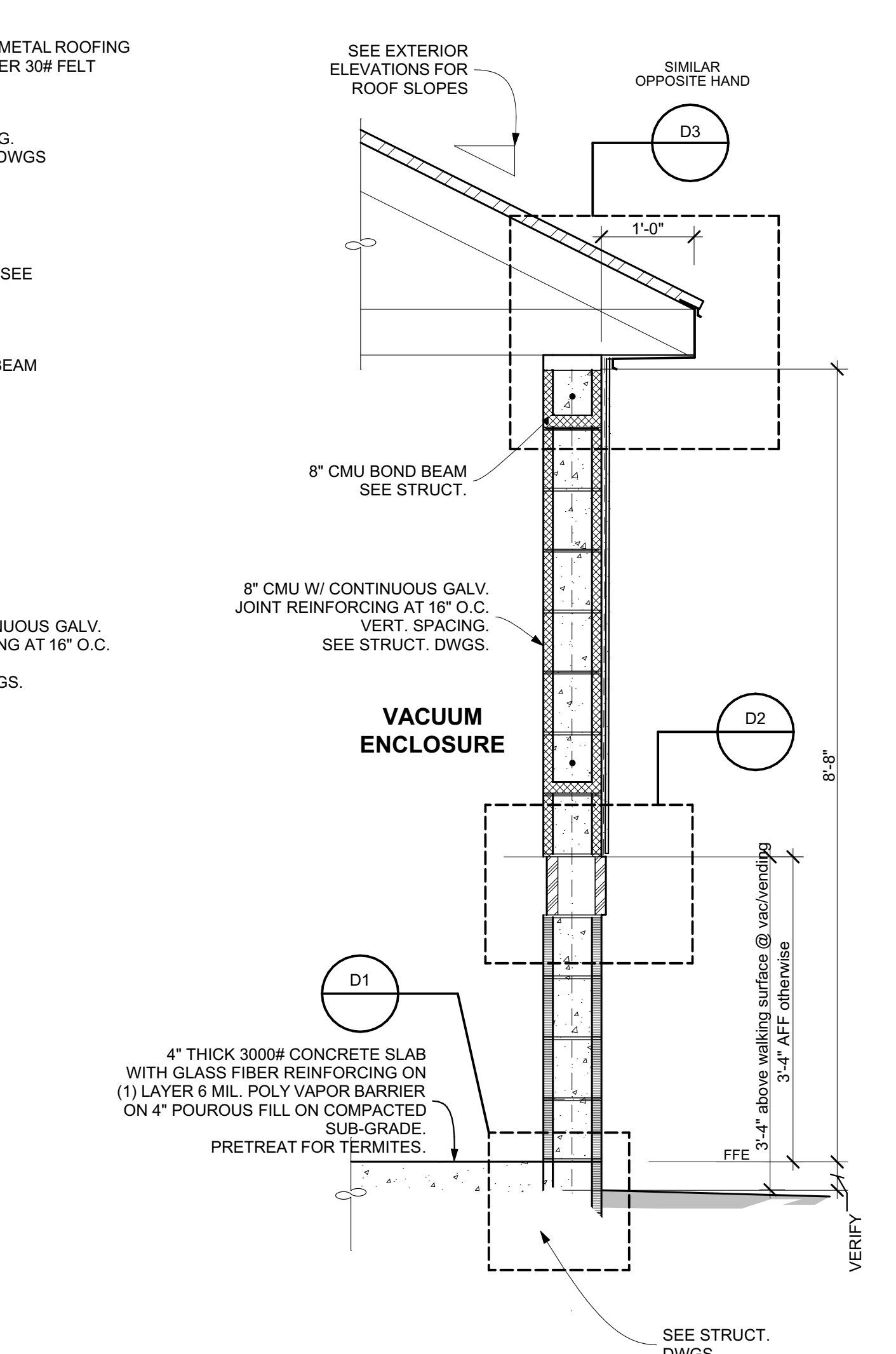
VENTED RIDGE CAPS, TYPICAL.



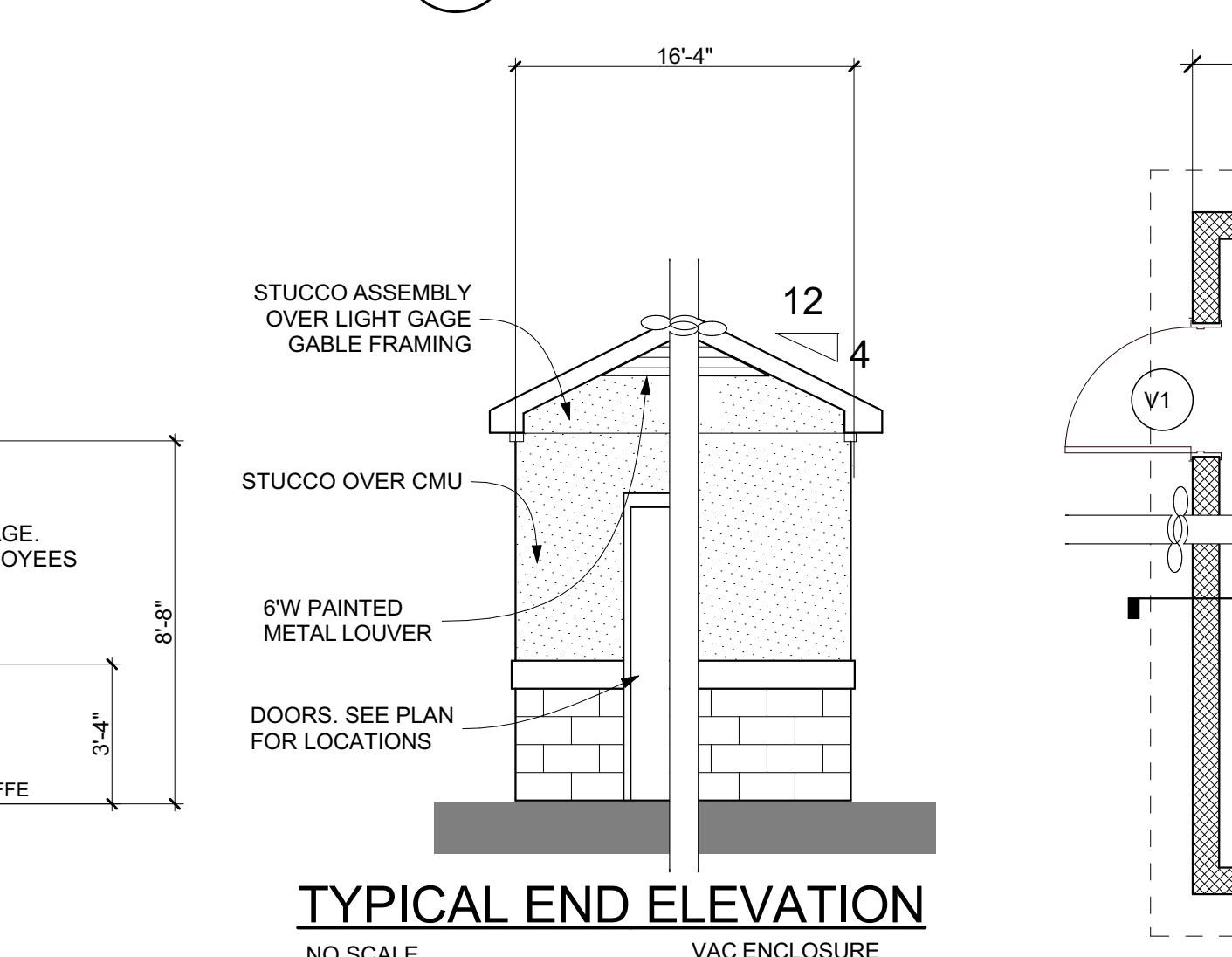
VE PLAN - VACUUM ENCLOSURE  
NO SCALE



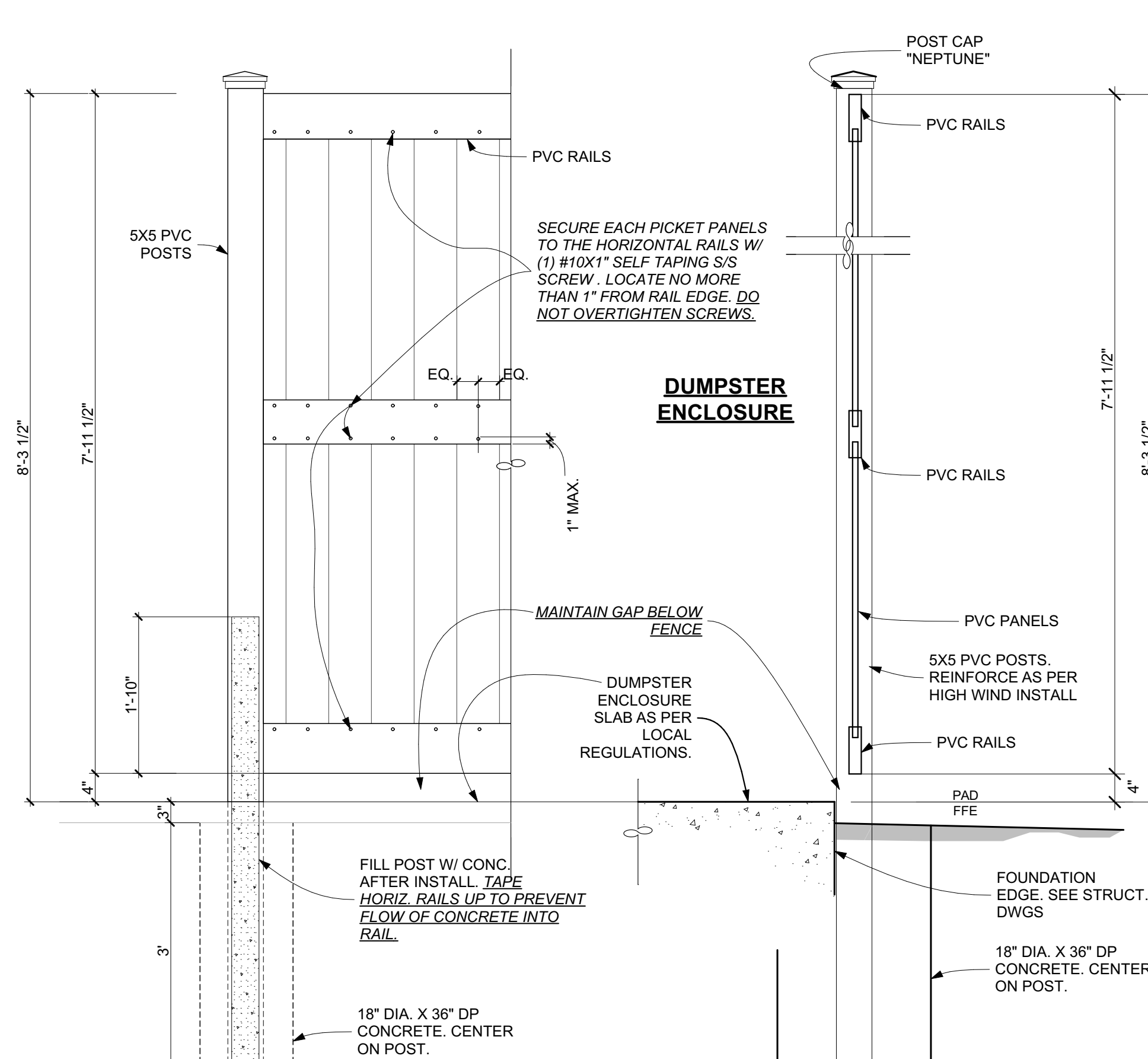
DG DUMPSTER ENCLOSURE GATE  
NO SCALE



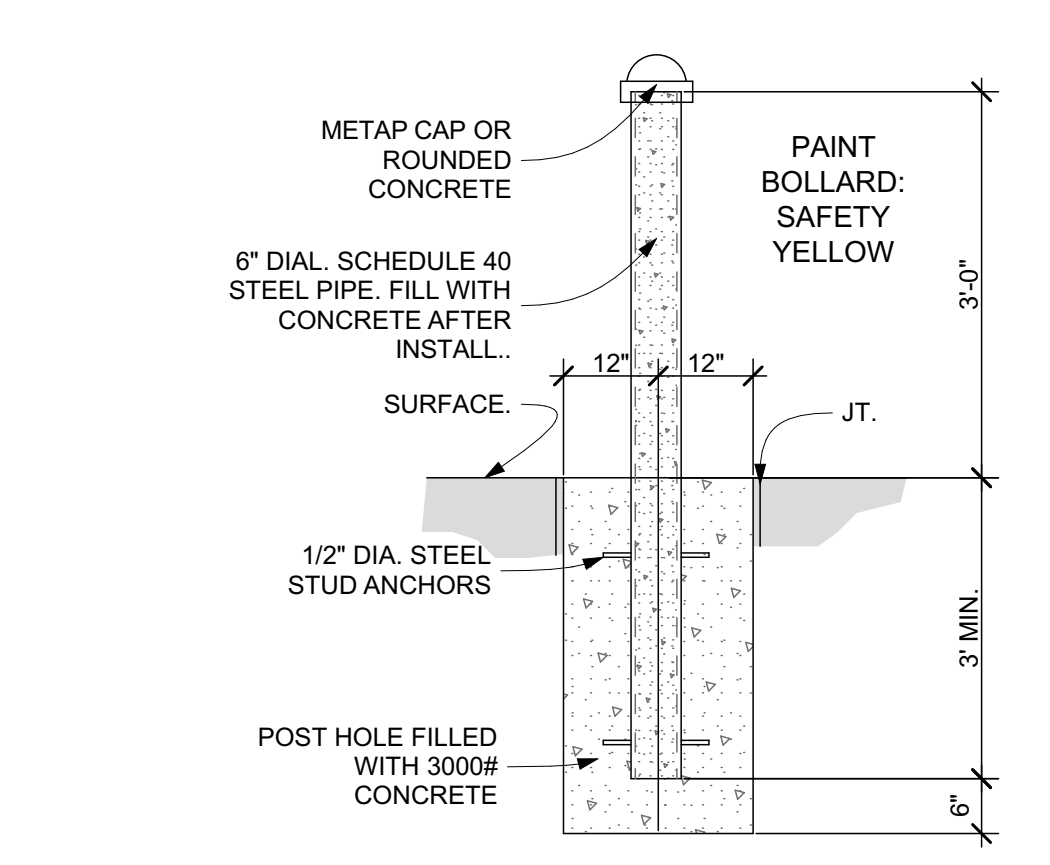
WSV WALL SECTION  
3/4\"/>



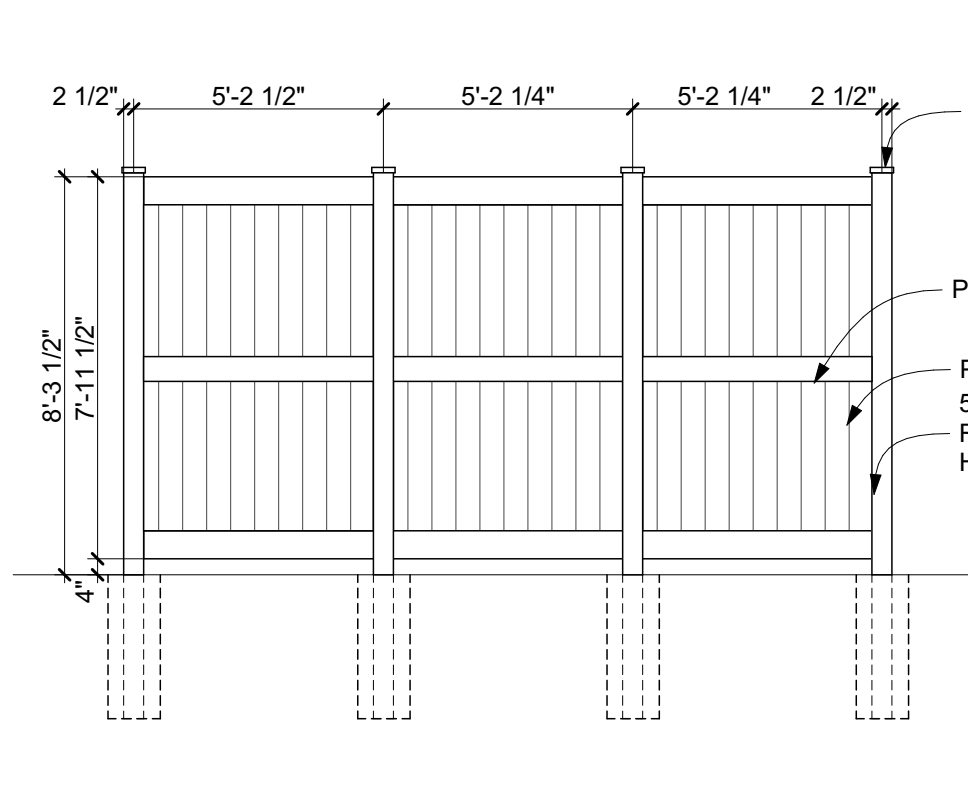
TYPICAL END ELEVATION  
VAC ENCLOSURE  
NO SCALE



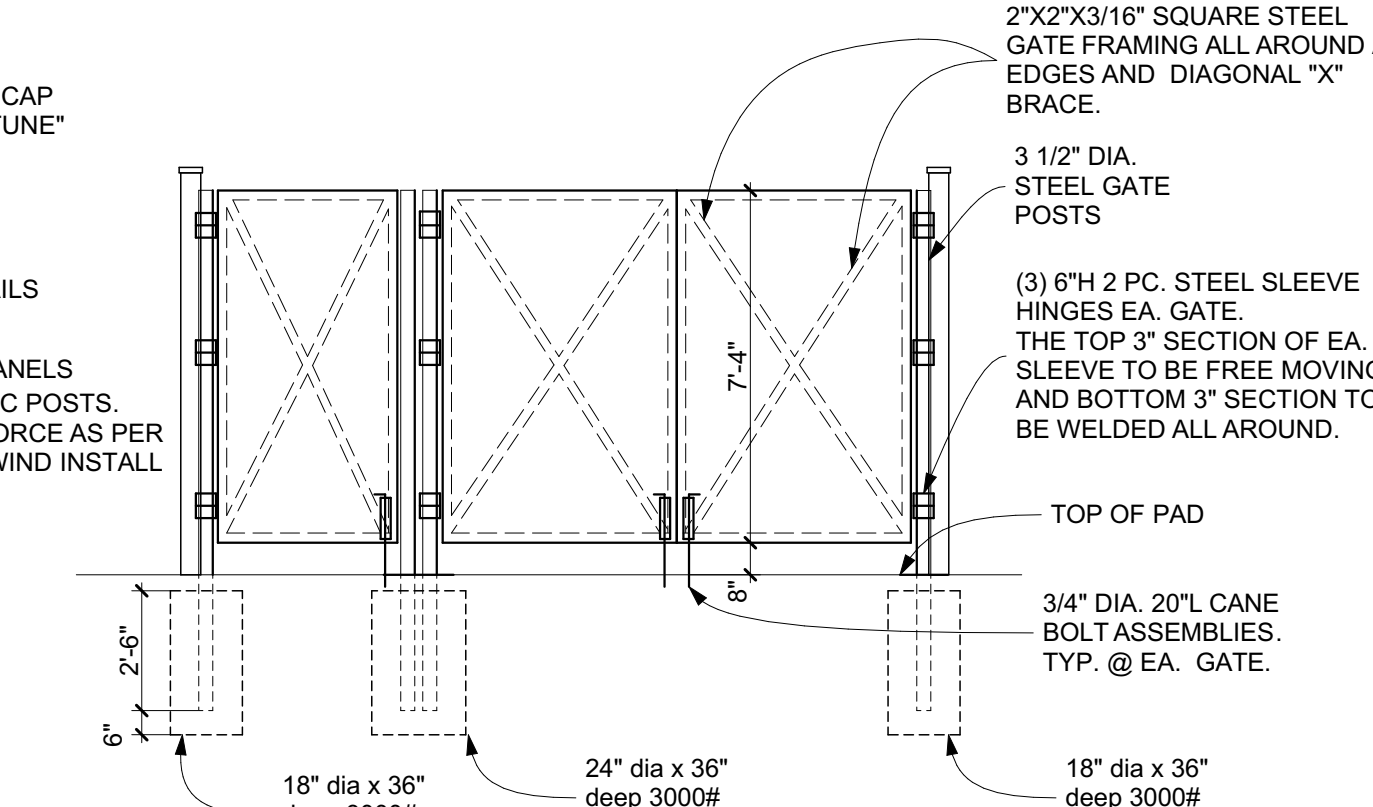
DUMPSTER ENCLOSURE  
3/4\"/>



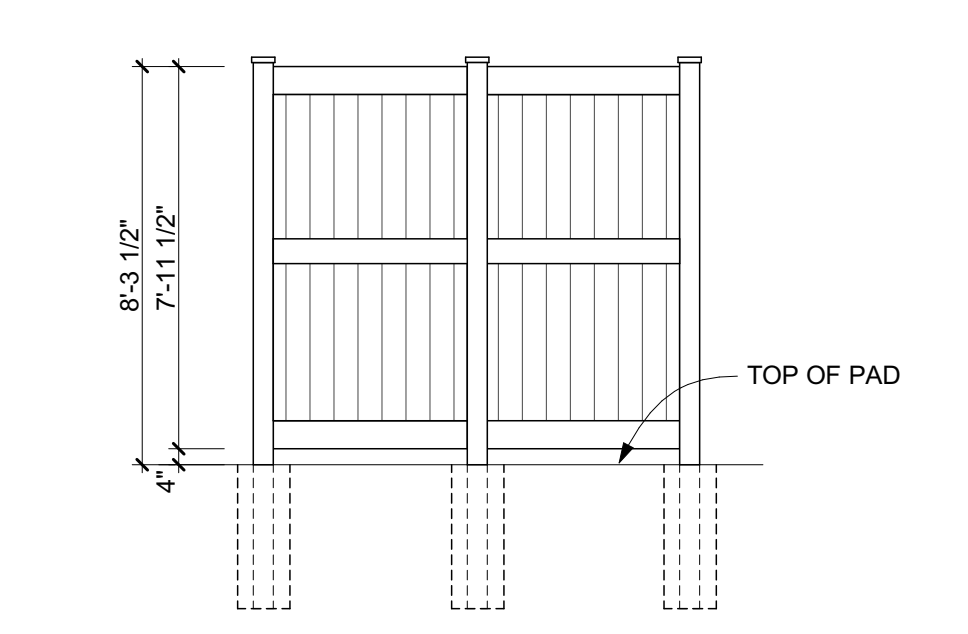
B1 DETAIL - BOLLARD  
NOT TO SCALE



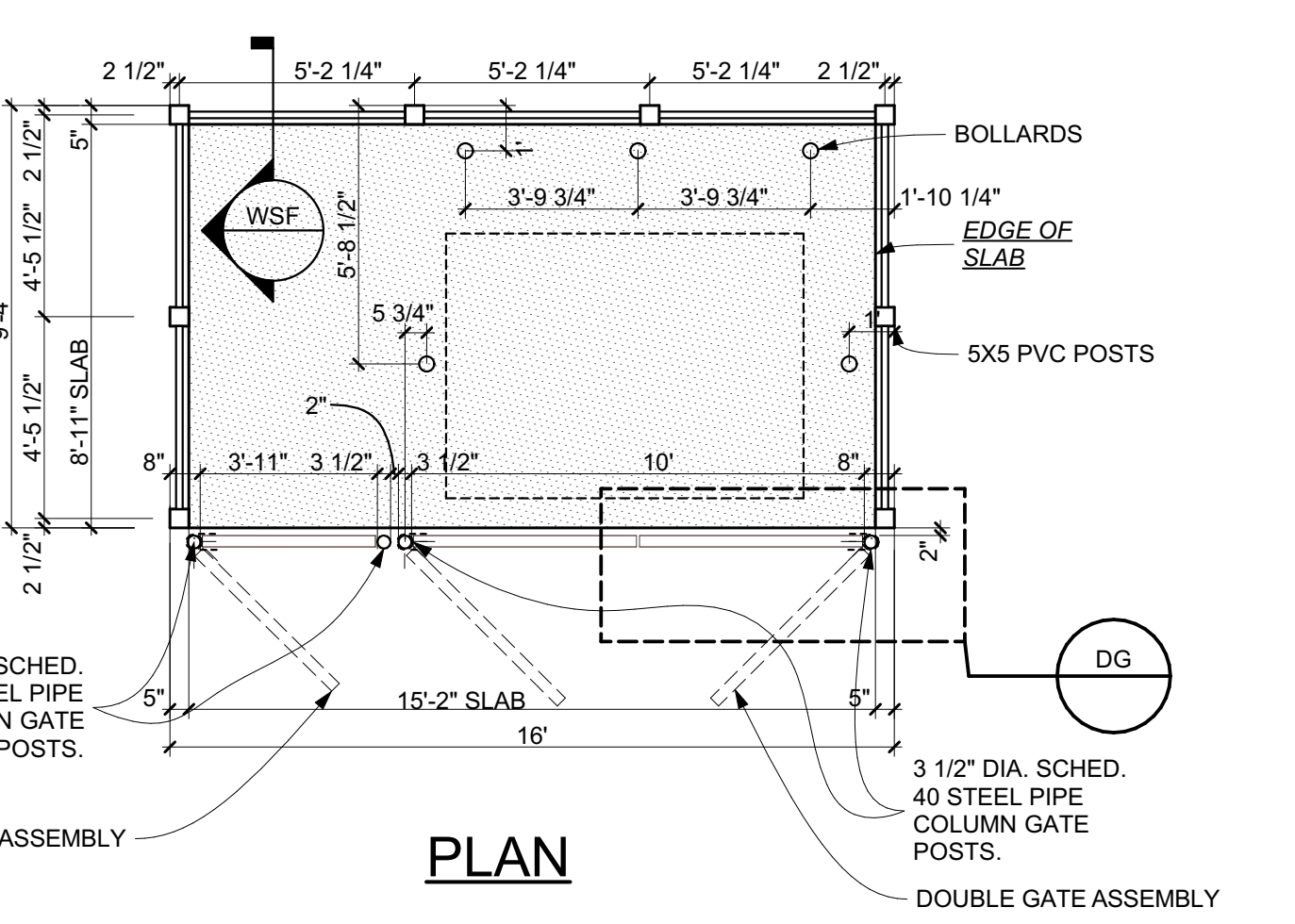
ELEVATION - REAR



ELEVATION - FRONT

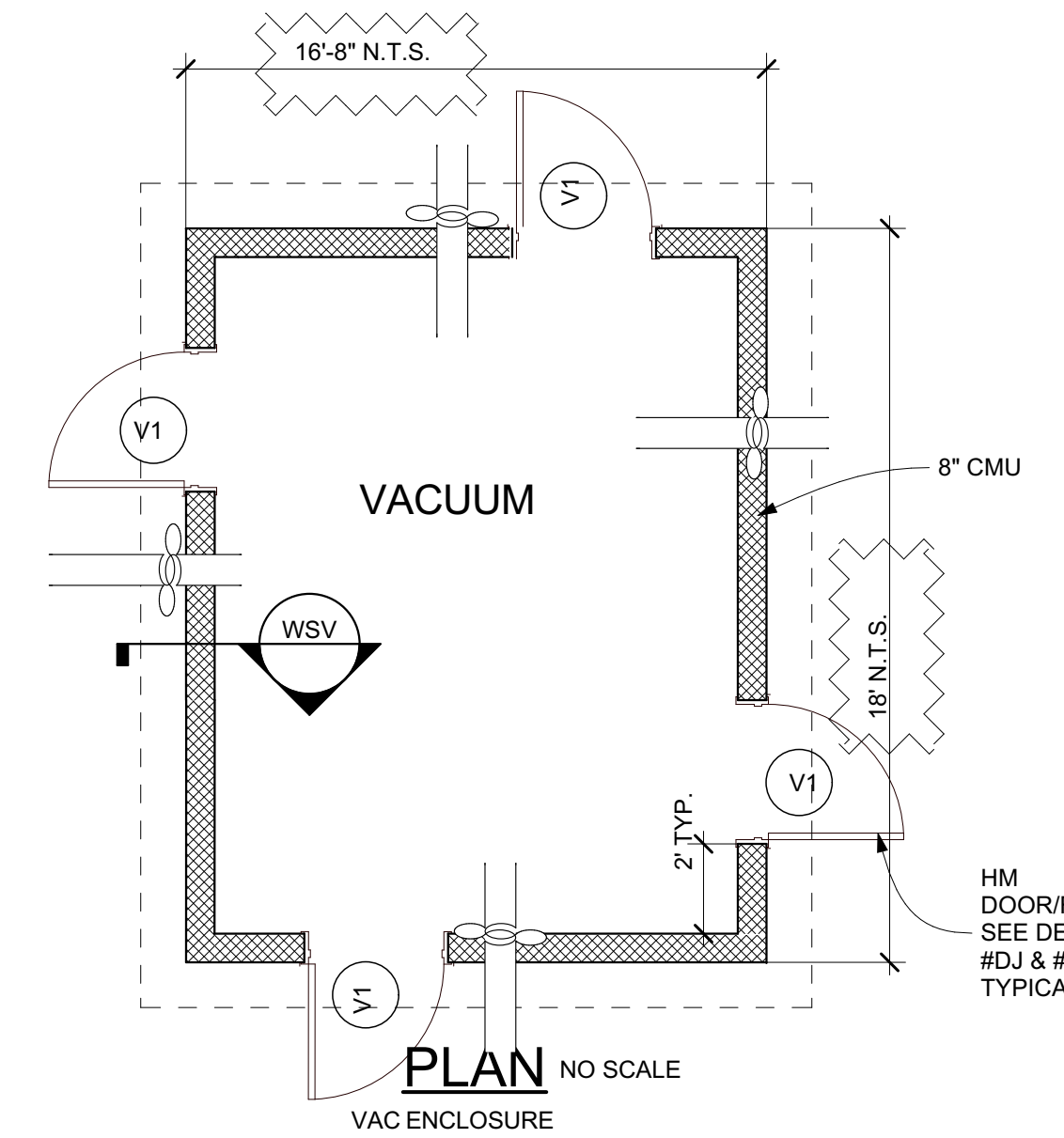


ELEVATION - SIDE



PLAN

SD STANDARD DUMPSTER ENCLOSURE  
1/4\"/>



PLAN VAC ENCLOSURE  
NO SCALE

ALL FINISHES, MATERIALS, AND COLORS TO MATCH MAIN CAR WASH BUILDING  
SEE CIVIL DRAWINGS FOR LAYOUT AND QUANTITY OF BUILDINGS  
**SEE CIVIL PLANS FOR FINAL LAYOUT**

**M. TODD ALBRITTON ARCHITECT**  
 202 EAST MAIN STREET  
 THOMASTON, GEORGIA 30286  
 PH 770-550-3275  
 mtoddalbrittonarchitect@gmail.com

THESE DESIGNS AND DRAWINGS AS INSTRUMENTS OF SERVICE ARE THE PROPERTY OF THE ARCHITECT AND SHALL NOT BE COPIED OR REUSED IN ANY FORM WITHOUT THE WRITTEN PERMISSION OF THE ARCHITECT. THESE DRAWINGS SHALL BE USED ON THE ORIGINAL PROJECT LOCATION ONLY AND SHALL NOT BE REUSED AT OTHER LOCATIONS.

**NEW TIDAL WAVE AUTO SPA**  
 US 401  
 ROLESVILLE, NC

OWNER:  
**TIDAL WAVE AUTO SPA**  
 EAST THOMPSON STREET  
 THOMASTON, GEORGIA 30286

MARK	DATE	DESCRIPTION
SHEET TITLE		
AUXILIARY BUILDINGS		
PROJECT DATE: xxxxxx		
PROJECT NUMBER: ##		
DRAWN BY: Name		
<b>AB.1</b>		

THE DUMPSTER ENCLOSURE AND VAC ENCLOSURES ARE RISK CATEGORY "I".







DESIGN CRITERIA

Table with 2 columns: Item, Value. Includes BUILDING CODE - 2018 NORTH CAROLINA BUILDING CODE, RISK CATEGORY & IMPORTANCE FACTORS, DESIGN DEAD LOADS, DESIGN LIVE LOADS, WIND LOADS, ROOFS, WALLS, and REFERENCE ASCE 7 FOR EFFECTIVE WIND AREAS.

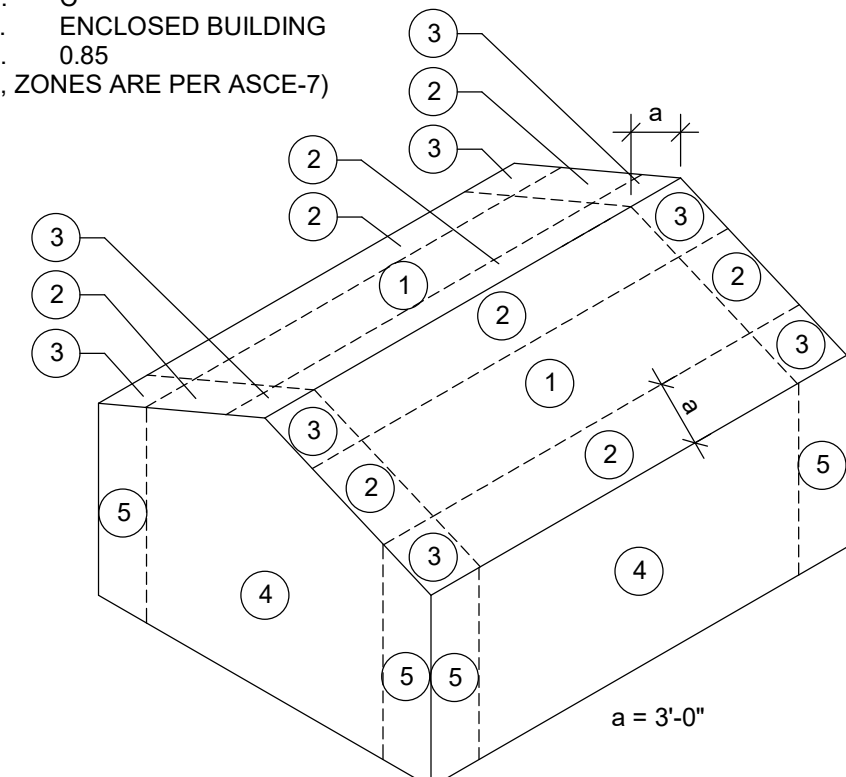


Table with 2 columns: Item, Value. Includes EARTHQUAKE LOADS, SNOW LOADS, and SPECIAL INSPECTIONS.

SPECIAL INSPECTIONS

- 1. SPECIAL INSPECTION AND A FINAL REPORT IN ACCORDANCE WITH IBC SECTION 1704.2.4 SHALL BE SUBMITTED TO THE BUILDING OFFICIAL PRIOR TO THE TIME THAT PHASE OF THE WORK IS APPROVED FOR OCCUPANCY.
2. THE OWNER WILL EMPLOY THE SERVICES OF ONE OR MORE SPECIAL INSPECTORS TO PROVIDE SPECIAL INSPECTIONS DURING CONSTRUCTION ACCORDING TO THE SCHEDULE OF SPECIAL INSPECTIONS.
3. THE SPECIAL INSPECTOR SHALL BE A QUALIFIED PERSON WHO SHALL DEMONSTRATE COMPETENCE TO THE SATISFACTION OF THE BUILDING OFFICIAL...

QUALITY ASSURANCE

- 1. THE CONTRACTOR/OWNER SHALL EMPLOY AND PAY FOR THE SERVICES OF AN INDEPENDENT TESTING AGENCY ACCEPTABLE TO THE OWNER TO PROVIDE QUALITY ASSURANCE TESTING AND INSPECTIONS. THE TESTING AGENCY SHALL BE LICENSED BY THE PROJECT STATE AND ALL TESTING AND INSPECTIONS SHALL BE PERFORMED UNDER THE SUPERVISION OF AN ENGINEER REGISTERED IN THE PROJECT STATE.
2. FAILURE OF QUALITY ASSURANCE TESTING AND INSPECTIONS TO DETECT ANY DEFECTIVE WORK OR MATERIAL SHALL NOT IN ANY WAY REJECT OR PARTIAL PENETRATION GROOVE WELDS ALONG THE COLUMN BASE PLATES SHALL BE TESTED IN COMPLIANCE WITH THE GOVERNING CITY, MUNICIPAL, OR FEDERAL BODY...

SUBMITTALS

- 1. CONTRACTOR SHALL SUBMIT A SCHEDULE OF SHOP DRAWING SUBMITTAL DATES AT LEAST 30 DAYS PRIOR TO FIRST SUBMITTAL. FAILURE TO SUBMIT DRAWINGS ON DESIGNATED DATES MAY IMPACT REVIEW SCHEDULE.
2. ANY MATERIALS OR PRODUCTS SUBMITTED FOR APPROVAL THAT ARE DIFFERENT FROM THE MATERIAL OR PRODUCTS SPECIFIED IN THE STRUCTURAL CONTRACT DOCUMENTS WILL BE CONSIDERED ONLY IF THE FOLLOWING CRITERIA ARE SATISFIED.
3. REVIEW OF SUBMITTALS AND/OR SHOP DRAWINGS BY THE STRUCTURAL ENGINEER OF RECORD DOES NOT RELIEVE THE CONTRACTOR OF THE SOLE RESPONSIBILITY TO REVIEW AND CHECK SHOP DRAWINGS BEFORE SUBMITTAL TO THE STRUCTURAL ENGINEER OF RECORD...

DEFERRED SUBMITTALS

- 1. DEFERRED SUBMITTALS ARE DEFINED AS THE FOLLOWING PORTIONS OF THE DESIGN THAT ARE NOT SUBMITTED AT THE TIME OF APPLICATION AND THAT ARE TO BE SUBMITTED TO THE BUILDING OFFICIAL WITHIN A SPECIFIED PERIOD.
2. THE DEFERRED SUBMITTALS SHALL BE APPROVED BY THE PROJECT ARCHITECT AND/OR ENGINEER OF RECORD. THE DEFERRED SUBMITTAL ITEMS SHALL NOT BE INSTALLED UNTIL THE DESIGN AND SUBMITTAL DOCUMENTS HAVE BEEN AUTHORIZED BY THE BUILDING OFFICIAL.

MISCELLANEOUS

- 1. STRUCTURAL DRAWINGS SHALL BE COORDINATED WITH ARCHITECTURAL, EQUIPMENT, AND MECHANICAL DRAWINGS. CONTRACTOR IS RESPONSIBLE FOR COORDINATING PERTINENT ASPECTS OF ALL DISCIPLINES INTO THEIR SHOP DRAWINGS AND WORK, AND SHALL NOTIFY THE ARCHITECT OF ANY DISCREPANCIES OR OMISSIONS.
2. NO OPENINGS OR MODIFICATIONS SHALL BE MADE IN OR TO ANY STRUCTURAL MEMBER WITHOUT THE WRITTEN APPROVAL OF THE ARCHITECT.
3. NO CHANGE IN SIZE OR DIMENSION OF STRUCTURAL MEMBERS SHALL BE MADE WITHOUT THE WRITTEN APPROVAL OF THE ARCHITECT.
4. OPENINGS 1'-4" OR LESS ON A SIDE ARE GENERALLY NOT SHOWN ON THE STRUCTURAL DRAWINGS. REFER TO ARCHITECTURAL AND MECHANICAL DRAWINGS FOR SUCH OPENINGS.

FOUNDATIONS

- 1. FOUNDATION DESIGN IS BASED ON ASSUMED STABLE, NON-EXPANSIVE SOIL WITH AN ALLOWABLE NET BEARING PRESSURE OF 2.0 KSF UNDER FULL SERVICE LIVE AND DEAD LOAD WITH A MAXIMUM OF 12 INCH OF DIFFERENTIAL SETTLEMENT. A GEOTECHNICAL ENGINEER LICENSED IN THE PROJECT STATE SHALL DETERMINE THE VALIDITY OF THESE ASSUMPTIONS AND THE ENGINEER OF RECORD SHALL BE NOTIFIED IF THE SOIL DOES NOT MEET ANY OF THE MINIMUM CRITERIA.
2. THE FOOTINGS HAVE BEEN POSITIONED AT THE ESTIMATED ELEVATION WHICH WILL PROVIDE SUITABLE BEARING. HOWEVER, IF ADEQUATE BEARING CAPACITY IS NON-EXISTENT AT THESE ESTIMATED ELEVATIONS, THE FOOTING SHALL BE LOWERED TO AN ELEVATION WHERE THE PRESCRIBED SAFE BEARING CAPACITY EXISTS.
3. FOOTINGS MAY BE CAST INTO AN EARTH-FORMED TRENCH IF SOIL CONDITIONS PERMIT.
4. EXCAVATION FOR FOOTINGS SHALL BE CUT TO ACCURATE SIZES AND DIMENSIONS. AS SHOWN ON PLANS, ALL SOIL BELOW SLABS AND FOOTINGS SHALL BE PROPERLY COMPACTED AND SUBGRADE BROUGHT TO A REASONABLE TRUE AND LEVEL PLANE BEFORE PLACING CONCRETE.

CONCRETE

- 1. CODE: AMERICAN CONCRETE INSTITUTE (ACI) 318 (LATEST ADDITION)
2. CONCRETE SHALL HAVE A 28-DAY COMPRESSIVE STRENGTH IN ACCORDANCE WITH THE FOLLOWING:
TUNNEL SLAB & TRENCH: 5000 PSI
OTHER SLABS ON GRADE: 3000 PSI
FOOTINGS: 3000 PSI
3. ALL CONCRETE SHALL HAVE A DENSITY OF 145 PCF UNLESS NOTED OTHERWISE.
4. CONTRACTOR SHALL SUBMIT CONCRETE MIX DESIGN FOR ALL UNIQUE CONCRETE APPLICATIONS FOR REVIEW WELL IN ADVANCE OF CONCRETE PLACEMENT. CONCRETE MIX DESIGN SHALL BE CERTIFIED BY AN ENGINEER REGISTERED IN THE PROJECT STATE. MIX DESIGN TEST DATA SHALL COMPLY WITH ACI 318 AND SHALL INCLUDE (AT A MINIMUM) AVERAGE 28 DAY STRENGTH, NUMBER OF SAMPLES, AND STANDARD DEVIATION (IF APPLICABLE). TEST RESULTS SHALL NOT BE MORE THAN 24 MONTHS OLD AT TIME OF SUBMITTAL.
5. REINFORCING SHALL CONFORM TO ASTM A615, GR60, UNLESS NOTED OTHERWISE.
6. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185, GRADE 60.
7. WELDED WIRE FABRIC SHALL BE PLACED 1" BELOW T/S LAB, UNLESS NOTED OTHERWISE. LAP FABRIC 6" ON SIDES AND ENDS.
8. ALL REINFORCING SHALL BE DETAILED, FABRICATED AND PLACED IN ACCORDANCE WITH THE LATEST ADDITION OF THE ACI DETAILING MANUAL.
9. ALL MIXING, TRANSPORTING, PLACING AND CURING OF CONCRETE SHALL BE DONE IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE AMERICAN CONCRETE INSTITUTE.
10. ALL "CONTINUOUS" REINFORCEMENT SHALL HAVE A MINIMUM LAP OF "B" TYPE (ACI 318) AT SPLICES, UNLESS NOTED OTHERWISE.
11. SUBMIT REINFORCING PLACEMENT AND DETAIL (SHOP) DRAWINGS FOR REVIEW. NO REINFORCING BARS SHALL BE INSTALLED UNTIL THE SHOP DRAWINGS HAVE BEEN REVIEWED AND RETURNED.
12. PRODUCTS AND MATERIALS:
A. TYPE III PORTLAND CEMENT SHALL CONFORM TO ASTM-C150.
B. AGGREGATES SHALL CONFORM TO ASTM C-33.
C. REINFORCING BARS SHALL CONFORM TO ASTM A-615 (GRADE 60).
D. FORMING SHALL BE OF WOOD, STEEL, OR FIBERGLASS OF SATISFACTORY QUALITY AND CONDITION.
E. NO ADMIXTURES SHALL BE ADDED TO THE CONCRETE UNLESS APPROVED BY THE ENGINEER.
F. NON-SHRINK GROUT SHALL BE READY TO USE NON-METALLIC AGGREGATE AND DEVELOP A 28-DAY COMPRESSIVE STRENGTH OF 8000 PSI.
13. ALL REINFORCING SHALL BE SUPPORTED IN FORMS SPACED WITH NECESSARY ACCESSORIES AND SHALL BE SECURELY WIRED TOGETHER IN ACCORDANCE WITH LATEST ADDITION OF THE CRSI "MANUAL OF STANDARD PRACTICE".
14. MINIMUM CONCRETE COVER (UNLESS NOTED OTHERWISE) SHALL BE:
UNFORMED SURFACE IN CONTACT WITH THE GROUND: 3 INCHES
FORMED SURFACES EXPOSED TO EARTH OR WEATHER: #3 BARS AND LARGER: 2 INCHES; #5 BARS AND SMALLER: 1 1/2 INCHES
FORMED SURFACES NOT EXPOSED TO EARTH OR WEATHER: SLABS, WALLS, AND JOISTS: 3/4 INCHES
15. SCHEDULED OR DETAILED REINFORCING STEEL SHALL NOT BE TACK WELDED FOR ANY REASON. WELDED REINFORCING STEEL SPLICES ARE NOT PERMITTED WITHOUT THE ENGINEER'S APPROVAL. WHERE WELDING IS APPROVED IT SHALL CONFORM TO AWS D1.4 STRUCTURAL WELDING CODE - REINFORCING STEEL.
16. SLAB-ON-GRADE SHALL BE SAW CUT IMMEDIATELY AFTER CONCRETE HARDENS. THE CONTRACTOR SHALL SUBMIT LAYOUT AND CONSTRUCTION SCHEDULE ("SOFT CUT" @ INTERNATIONAL OR SIM.)
17. CONTROL JOINTS IN SLABS ON GROUND SHALL BE LOCATED AT 15'-0" MAXIMUM SPACING AND SHALL CREATE SECTIONS OF SLAB WITH A MAXIMUM ASPECT RATIO OF 1.5:1. CONTROL JOINTS SHALL BE SAWN AND SHALL BE A MINIMUM OF 1/4 OF THE SLAB THICKNESS DEEP IF CUT WITH A CONVENTIONAL SAW, OR 1" DEEP IF CUT WITH AN EARLY-ENTRY DRY-CUT SAW. THE CONTROL JOINTS SHALL BE SAWN AS SOON AS THE SAW BLADE CAN CUT THE CONCRETE WITHOUT DISPLACING THE AGGREGATE. CUT EVERY OTHER MESH WIRE AT THE CONTROL JOINT LOCATION PRIOR TO PLACING CONCRETE.
18. SAWN CONTROL JOINTS SHALL BE PLACED AS SOON AS CONCRETE IS ABLE TO BE SAWN WITHOUT PULLING AGGREGATE FROM FLOOR. SLABS SHALL NOT BE LEFT OVERNIGHT, OR ANY REASONABLE AMOUNT OF TIME WITHOUT SAWING JOINTS. WEATHER IS CRITICAL TO THE SCHEDULE OF SAWN JOINTS. IF LARGE AREAS OF SLAB ARE POURED AT ONE TIME, SEVERAL SAWS MAY BE REQUIRED SO THAT JOINTS ARE PLACED IN TIME TO PREVENT SHRINKAGE CRACKING. PROPER JOINTING OF THE SLAB IS CRITICAL. REFER TO THE ACI MANUAL OF CONCRETE PRACTICE FOR PROPER JOINTING TECHNIQUES.
19. BASE PLATES, ANCHOR BOLTS, SUPPORT ANGLES, ETC. BELOW GRADE SHALL BE COVERED WITH A MINIMUM OF 4" OF CONCRETE.
20. THE FLATNESS AND LEVELNESS OF THE SLAB-ON-GRADE SHALL BE DETERMINED ACCORDING TO ASTM E-1155 OR ACI 117. SLAB CLASS (ACI 302) STANDARD TEST METHOD USING F NUMBERS. THE SPECIFIC FLATNESS AND LEVELNESS SHALL BE F/F-35 AND F/L-20.
21. WHERE FOOTINGS, WALLS, OR OTHER STRUCTURAL ELEMENTS INTERSECT, CORNER OR TEE, PROVIDE CORNER BARS WITH REQUIRED LAP LENGTHS TO PROVIDE CONTINUITY OF HORIZONTAL STEEL REINFORCING, UNLESS NOTED OTHERWISE.
22. PROVIDE A MINIMUM OF 3" COVER FOR ANCHOR BOLTS AND LOCATE HORIZONTAL REINFORCEMENT TO THE OUTSIDE FOR ANCHOR BOLT CONTAINMENT, UNLESS NOTED OTHERWISE.
23. WHERE DOWELS, BOLTS OR INSERTS ARE CALLED OUT TO BE ANCHORED TO CAST IN PLACE OR PRECAST CONCRETE ELEMENTS USING ADHESIVE ANCHORS, USE AN ANCHORAGE SYSTEM EQUAL TO "HIT" HIT HIT #20. FOLLOW ALL MANUFACTURER'S RECOMMENDATIONS. ALTERNATE ANCHORAGE SYSTEMS MAY BE USED WITH ENGINEER'S PRIOR APPROVAL.
24. PROVIDE TEMPORARY SHORING AND BRACING OF ALL STRUCTURAL AND MISCELLANEOUS ELEMENTS UNTIL CONCRETE HAS OBTAINED 80% OF DESIGN STRENGTH AND ALL PERMANENT BRACING ELEMENTS ARE INSTALLED.
25. PLACEMENT OF CONCRETE, COLD WEATHER AND HOT WEATHER PRECAUTIONS, MATERIAL AND PROPORTIONING REQUIREMENTS, REBAR COVER AND DETAILING SHALL CONFORM TO THE REQUIREMENTS OF THE ACI 318.

CONCRETE REINFORCEMENT LAP LENGTH SCHEDULE

Table with columns: BAR SIZE, TOP BARS, OTHER, TOP BARS, OTHER, TOP BARS, OTHER. Rows for #3, #4, #5, #6, #7, #8, #9.

NOTES

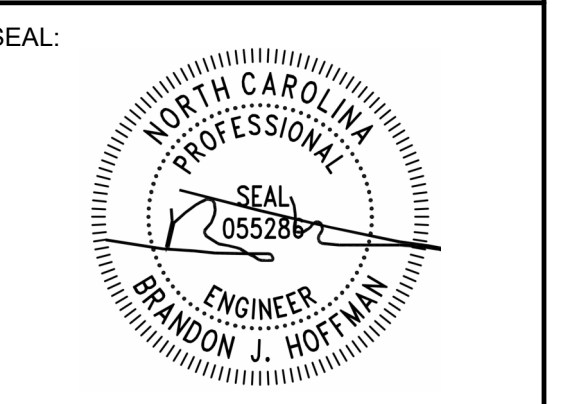
- 1. WHERE THE CLEAR SPACING BETWEEN BARS BEING SPLICED IS LESS THAN (2) BAR DIAMETERS, INCREASE THE LAP LENGTH BY 50%.
2. WHERE THE BAR COVER IS LESS THAN OR EQUAL TO THE BAR DIAMETER, INCREASE THE LAP LENGTH BY 50%.
3. TOP BARS ARE HORIZONTAL BARS WITH MORE THAN 12" OF CONCRETE CAST BELOW THE BARS.
4. LAP SPlice LENGTHS ARE PROVIDED FOR NORMAL WEIGHT CONCRETE, WHERE LIGHTWEIGHT CONCRETE IS USED, INCREASE LAP SPlice LENGTHS BY 30%.
5. SPLICES OF HORIZONTAL REINFORCEMENT IN WALLS SHALL BE STAGGERED.
6. SPLICES OF HORIZONTAL REINFORCEMENT IN WALLS CONTAINED TWO MATTS OF REINFORCEMENT SHALL NOT OCCUR IN THE SAME LOCATION.

STRUCTURAL STEEL

- 1. CODE: LATEST EDITION OF THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION "SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS, ANSII/AISC 360. STEEL SHALL CONFORM TO THE FOLLOWING GRADES:
WIDE FLANGE SHAPES: ASTM A992 (Fy=50ksi)
ALL CHANNELS, ANGLES, PLATES, ETC. (UNO): A36 (Fy=36ksi)
STRUCTURAL TUBES: A500, GRADE B (Fy=48ksi)
ANCHOR BOLTS: F1554, GRADE 36 (Fy=36ksi)
BOLTS: A325
WELDING ELECTRODES: E70XX
HEADED STUDS: AWS D1.1 GR B
2. STRUCTURAL STEEL DETAILING, FABRICATION, AND ERECTION SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE "MANUAL OF STEEL CONSTRUCTION" OF THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION. SHOP DRAWINGS SHALL SHOW COMPLETE WELDING INFORMATION, BOTH SHOP AND FIELD, USING AMERICAN WELDING SOCIETY SYMBOLS UNLESS OTHERWISE INDICATED OR SHOWN. BOLTED CONNECTION SHALL BE MADE USING 3/4" DIAMETER BOLTS CONFORMING TO ASTM A325 UNLESS OTHERWISE NOTED. THEY SHALL BE INSTALLED AND INSPECTED IN STRICT CONFORMANCE WITH LATEST EDITION RSCS "SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS".
3. THE FABRICATOR IS RESPONSIBLE FOR THE DESIGN OF ALL CONNECTIONS SHOWN ON THE STRUCTURAL DRAWINGS. CONNECTIONS SHOWN ARE SCHEMATIC AND ARE ONLY INTENDED TO SHOW THE RELATIONSHIP OF MEMBERS CONNECTED. CONNECTION DETAILS INDICATED ON THE DRAWINGS SHALL BE INCORPORATED INTO FABRICATOR'S CONNECTION DESIGN. SEE SPECIFICATIONS.
4. SPLICING OF STEEL MEMBERS UNLESS SHOWN ON THE DRAWINGS IS PROHIBITED WITHOUT WRITTEN APPROVAL OF THE ARCHITECT.
5. NO HOLES SHALL BE CUT IN ANY STEEL ELEMENT UNLESS THEY ARE DETAILED ON THE DRAWINGS.
6. UNLESS OTHERWISE SHOWN ON THE DRAWINGS, THE SIZE OF WELDS SHALL NOT BE SMALLER THAN 1/4".
7. THE CONTRACTOR SHALL PROVIDE, AT NO ADDITIONAL COST, ALL ADDITIONAL STEEL CONNECTIONS, GUYING, ETC. REQUIRED FOR ERECTION.
8. OBTAIN ALL FIELD MEASUREMENTS REQUIRED FOR PROPER FABRICATION AND INSTALLATION OF WORK PRIOR TO DETAILING. PRECISE MEASUREMENTS ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
9. THE FABRICATOR SHALL BE RESPONSIBLE FOR ALL ERRORS OF DETAILING ON THE SHOP DRAWINGS, ERRORS IN FABRICATION, AND FOR THE CORRECT FITTING OF STRUCTURAL STEEL MEMBERS.
10. ALL TUBES REQUIRE AN END PLATE AT EACH END WITH A THICKNESS EQUAL TO OR GREATER THAN THE TUBE'S WALL THICKNESS.
11. MASONRY:
1. CODE: AMERICAN CONCRETE INSTITUTE (ACI) 530 (LATEST EDITION)
2. MASONRY SHALL BE LIGHTWEIGHT AND HAVE A MINIMUM COMPRESSIVE STRENGTH, fm, OF 1500 PSI BASED ON GROSS AREA. MORTAR SHALL CONFORM TO ASTM C270 TYPES S OR M. GROUT SHALL CONFORM TO ASTM C476 WITH A MAXIMUM AGGREGATE SIZE OF 3/8".
3. REINFORCING BARS SHALL CONFORM TO ASTM A615 GRADE 60 UNLESS NOTED OTHERWISE.
4. CONTINUOUS WIRE REINFORCING (JOINT REINFORCING) SHALL BE GALVANIZED LADDER TYPE FABRICATED UNITS WITH A SINGLE PAIR OF G GAGE SIDE RODS AND 9 GAGE CONTINUOUS DIAGONAL CROSS RODS FABRICATED FROM COLD DRAWN STEEL WIRE COMPLYING WITH ASTM A62. JOINT REINFORCING SHALL BE SPACED AT 16" O.C. VERTICALLY IN ALL MASONRY WALLS UNLESS NOTED OTHERWISE.
5. SEE ARCHITECTURAL DRAWINGS FOR LOCATIONS OF VERTICAL CONTROL JOINTS, HORIZONTAL BOND BEAM AND LINTEL REINFORCING SHALL BE CONTINUOUS ACROSS VERTICAL CONTROL JOINTS. JOINT REINFORCING SHALL BE STOPPED EITHER SIDE OF VERTICAL CONTROL JOINTS.
6. ALL REINFORCED CELLS AND ALL CELLS BELOW FINISH FLOOR SHALL BE GROUTED SOLID.
7. WHEN A FOUNDATION DOWEL DOES NOT LINE UP WITH A VERTICAL BLOCK CORE, IT SHALL NOT BE SLOPED MORE THAN ONE HORIZONTAL IN 12. VERTICAL DOWELS MAY BE GROUTED INTO A CELL IN VERTICAL ALIGNMENT EVEN THOUGH IT IS IN AN ADJACENT CELL TO THE VERTICAL WALL REINFORCING.
8. REINFORCING STEEL SHALL BE SECURED IN PLACE BEFORE GROUTING STARTS.
9. VERTICAL BARS SHALL BE HELD IN POSITION WITH PRE-MANUFACTURED TIES AT TOP AND BOTTOM AND AT INTERVALS NOT EXCEEDING 20 DIAMETERS OF THE REINFORCING NOR 10 FEET.
10. VERTICAL REINFORCING BARS SHALL HAVE A MINIMUM CLEARANCE OF 3/4 OF AN INCH FROM THE MASONRY AND NOT LESS THAN ONE BAR DIAMETER BETWEEN BARS.
11. VERTICAL CELLS THAT WILL BE GROUTED SHALL HAVE A VERTICAL ALIGNMENT TO MAINTAIN A CONTINUOUS UNOBSTRUCTED CELL AREA NOT LESS THAN 2-1/2" X 3".
12. GROUTING SHALL BE STOPPED 1-1/2" BELOW THE TOP OF A COURSE SO AS TO FORM A KEY AT THE POUR JOINT.
13. GROUTING OF MASONRY BEAMS OVER OPENINGS SHALL BE DONE IN ONE CONTINUOUS OPERATION.
14. ALL BOLTS INSERTED IN THE WALLS SHALL BE GROUTED SOLIDLY INTO POSITION.
15. WHERE EXPANSION BOLTS OR OTHER ANCHORS ARE EMBEDDED INTO THE SIDE OF MASONRY WALLS, THE CELLS SHALL BE FULLY GROUTED AT LEAST 6" ABOVE AND BELOW EACH BOLT OR ANCHOR.
16. REINFORCING SHALL BE LAPPED A MINIMUM OF 36 INCHES, U.N.O.
17. WHERE NOT OTHERWISE SHOWN, MASONRY WALL FOOTINGS SHALL BE 12" THICK AND HAVE A MINIMUM OF 4" PROJECTION ON EACH SIDE OF WALL. REINFORCE WITH (3) #5 BARS CONTINUOUS.
18. WALLS SHALL BE GROUTED USING LOW LIFT GROUTING TECHNIQUES.

TIMBER

- 1. CODES: STRUCTURAL WOOD IS TO BE DESIGNED, DETAILED, FABRICATED AND CONSTRUCTED IN ACCORDANCE WITH THE LATEST ADDITIONS OF:
A. "NATIONAL DESIGN SPECIFICATIONS FOR WOOD CONSTRUCTION" (ANSI/AWC NDS) BY AMERICAN WOOD COUNCIL.
B. "PRODUCT STANDARD PS 20 'AMERICAN SOFTWOOD LUMBER STANDARD' BY A.L.S.C.
C. PLYWOOD CONFORMING TO APA- THE ENGINEERED WOOD ASSOCIATION.
D. METAL PLATE-CONNECTED WOOD TRUSSES CONFORMING TO "DESIGN SPECIFICATIONS FOR LIGHT METAL PLATE CONNECTED WOOD TRUSSES" BY TRUSS PLATE INSTITUTE (TPI) AND TPI QUALITY CONTROL MANUAL.
2. ALL TIMBER SHALL BE #2 SOUTHERN YELLOW PINE (MOISTURE CONTENT 19% MAX) OR EQUAL UNLESS NOTED OTHERWISE.
3. ALL WOOD TO WOOD CONNECTIONS SHALL EMPLOY PRE-MANUFACTURED METAL ANCHORS. TOE OR END NAILING OF WOOD SHALL NOT BE PERMITTED UNLESS NOTED OTHERWISE. METAL ANCHORS SHALL BE MANUFACTURED BY SIMPSON STRONG-TIE COMPANY OR EQUAL.
4. "TRUSS MEMBERS AND CONNECTOR PLATES SHALL BE DESIGNED IN ACCORDANCE WITH TRUSS PLATE INSTITUTE SPECIFICATIONS FOR THE DESIGN STATE OF LOAD. CONNECTOR PLATES WITHIN 1 INCH OF EDGE OR END OF MEMBER AT ANY JOINT SHALL NOT BE CONSIDERED IN DEVELOPING STRESS.
5. ERECTION BRACING (TEMPORARY & PERMANENT) SHALL BE INSTALLED AS NECESSARY TO HOLD THE TRUSSES TRUE AND PLUMB AND IN SAFE CONDITION UNTIL PERMANENT TRUSS BRACING AND BRIDGING CAN BE INSTALLED. ALL ERECTION AND PERMANENT BRACING SHALL BE INSTALLED AND ALL COMPONENTS PERMANENTLY FASTENED BEFORE THE APPLICATION OF ANY LOADS TO THE TRUSSES. ALL TEMPORARY BRACING LOCATIONS SHALL BE SUBMITTED TO THE ENGINEER OF RECORD FOR REVIEW ON SHOP DRAWINGS SUBMITTALS. ALL PREFABRICATED WOOD TRUSSES ARE TO BE INSTALLED IN ACCORDANCE WITH BRACING WOOD TRUSSES COMMENTARY (BWT-76) OR IFT-80, AS PUBLISHED BY THE TRUSS PLATE INSTITUTE.
6. PRE-ENGINEERED METAL PLATE CONNECTED WOOD TRUSSES SHALL BE BRACED IN ACCORDANCE WITH THE LATEST ADDITION OF THE TRUSS PLATE INSTITUTE'S "BUILDING COMPONENT SAFETY INFORMATION BOOKLET" AND RELATED SUMMARY SHEETS.
7. DESIGN OF TIMBER TRUSSES SHALL BE PERFORMED BY A STRUCTURAL ENGINEER LICENSED IN THE PROJECT STATE. STAMPED SHOP DRAWINGS SHALL BE SUBMITTED TO THE ARCHITECT FOR APPROVAL PRIOR TO FABRICATION. SHOP DRAWINGS SHALL BE SEALED BY THE DESIGN ENGINEER.
8. ALL TRUSS TO TRUSS CONNECTIONS SHALL BE DESIGNED BY THE TRUSS DESIGN ENGINEER. TRUSS DESIGN ENGINEER SHALL SPECIFY ALL HARDWARE REQUIRED FOR THE CONNECTIONS.
9. ROOF DECK SHALL BE 5/8" PLYWOOD MIN. ATTACHED TO SUPPORTING MEMBERS WITH 10d NAILS AT 6" ON CENTER @ PANEL EDGES & 12" O.C. IN FIELD UNLESS NOTED OTHERWISE.
10. WOOD EMBEDDED OR PLACED ON CONCRETE IN DIRECT CONTACT WITH EARTH SHALL BE PRESSURE TREATED INCLUDING BUT NOT LIMITED TO POSTS, COLUMN SLEEPERS, SILLS AND SOLE PLATES.
11. ALL PRE-ENGINEERED WOOD TRUSSES SHALL BE BRACED IN ACCORDANCE WITH TRUSS PLATE INSTITUTE'S "HANDLING, INSTALLING AND BRACING METAL PLATE CONNECTED WOOD TRUSSES, HIB-91"
12. ALL PRE-ENGINEERED WOOD TRUSS SHOP DRAWINGS SHALL BE AVAILABLE ON THE JOB SITE DURING THE TIMES OF INSPECTION AND SHALL BEAR CLEAR INDICATION THAT THEY HAVE BEEN REVIEWED AND APPROVED BY THE PROJECT STRUCTURAL ENGINEER-OF-RECORD.
13. BOLTS:
A. BOLTS FOR WOOD CONSTRUCTION SHALL BE ASTM A-307.
B. BOLT HOLES IN WOOD SHALL BE A MINIMUM OF 1/32" TO A MAXIMUM OF 1/16" LARGER THAN THE BOLT DIAMETER.
C. A METAL PLATE, METAL STRAP OR WASHER NOT LESS THAN A STANDARD CUT WASHER (1/8" THICK MIN.) SHALL BE BETWEEN THE WOOD AND THE BOLT HEAD AND BETWEEN THE BOLT AND THE WOOD.
D. THE THREADED PORTION OF BOLTS SUBJECT TO WOOD BEARING SHALL BE KEPT TO A PRACTICAL MINIMUM.
E. IN HEAVY TIMBER MEMBERS, THE BOLTS AND WASHERS SHALL BE COUNTER-SUNK 3/4" MAX. IN THE MEMBER TO ALLOW FOR A WOOD PEG COVER.
14. PREDRILL HOLES FOR LAG BOLTS AS FOLLOWS:
A. CLEARANCE HOLE FOR LENGTH OF UNTHREADED SHANK: NOMINAL DIAMETER + 1/16"
B. PREDRILL HOLES FOR THREADED PORTION: NOMINAL DIAMETER + 1/16"
15. ALL NAILS, BOLTS, SCREWS, AND LAG SCREWS SHALL BE HOT-DIP GALVANIZED OR STAINLESS STEEL. WOOD CONNECTOR HARDWARE SHALL BE HOT-DIP GALVANIZED, "Z-MAX" GALVANIZED OR TYPE 316 STAINLESS STEEL. ALL GALVANIZED FASTENERS SHALL BE USED WITH GALVANIZED HARDWARE AND STAINLESS STEEL FASTENERS SHALL BE USED WITH STAINLESS STEEL HARDWARE.



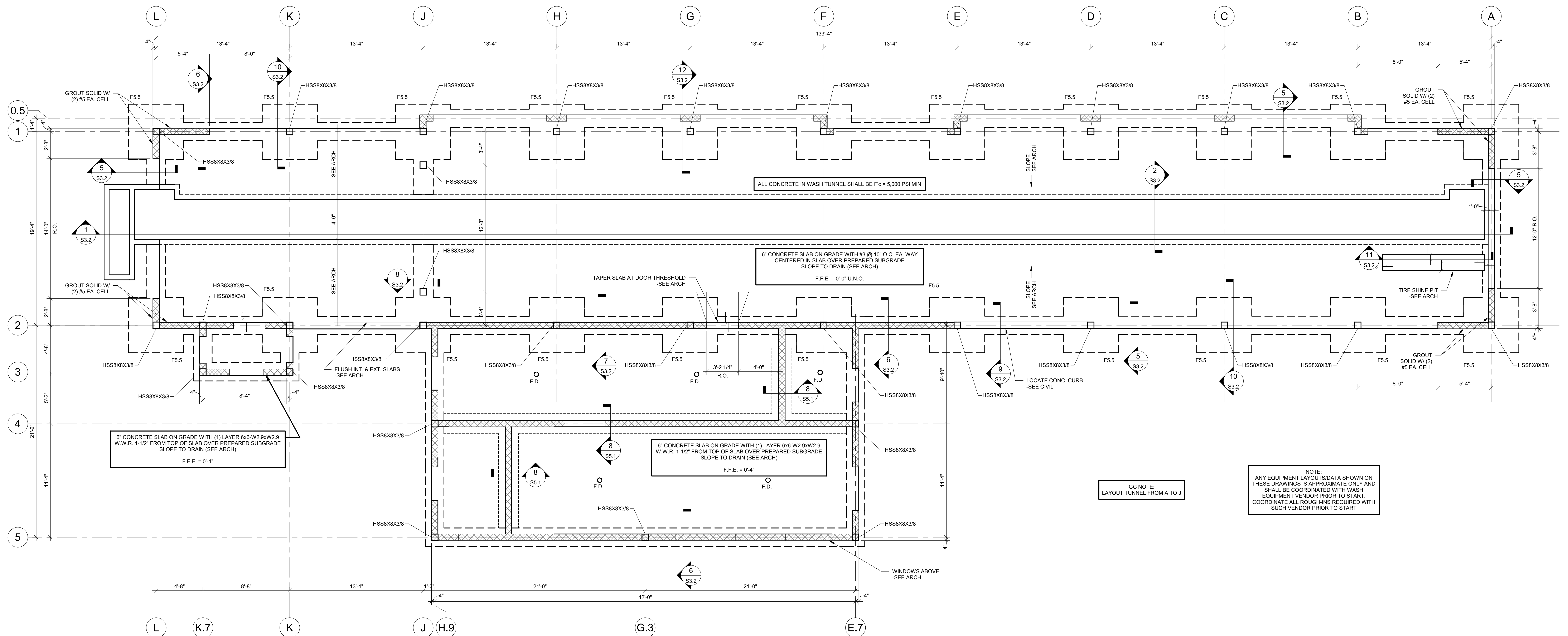
DRAWING TITLE: GENERAL NOTES

Table with 3 columns: NO., DESCRIPTION, DATE. Includes a section for REVISIONS.

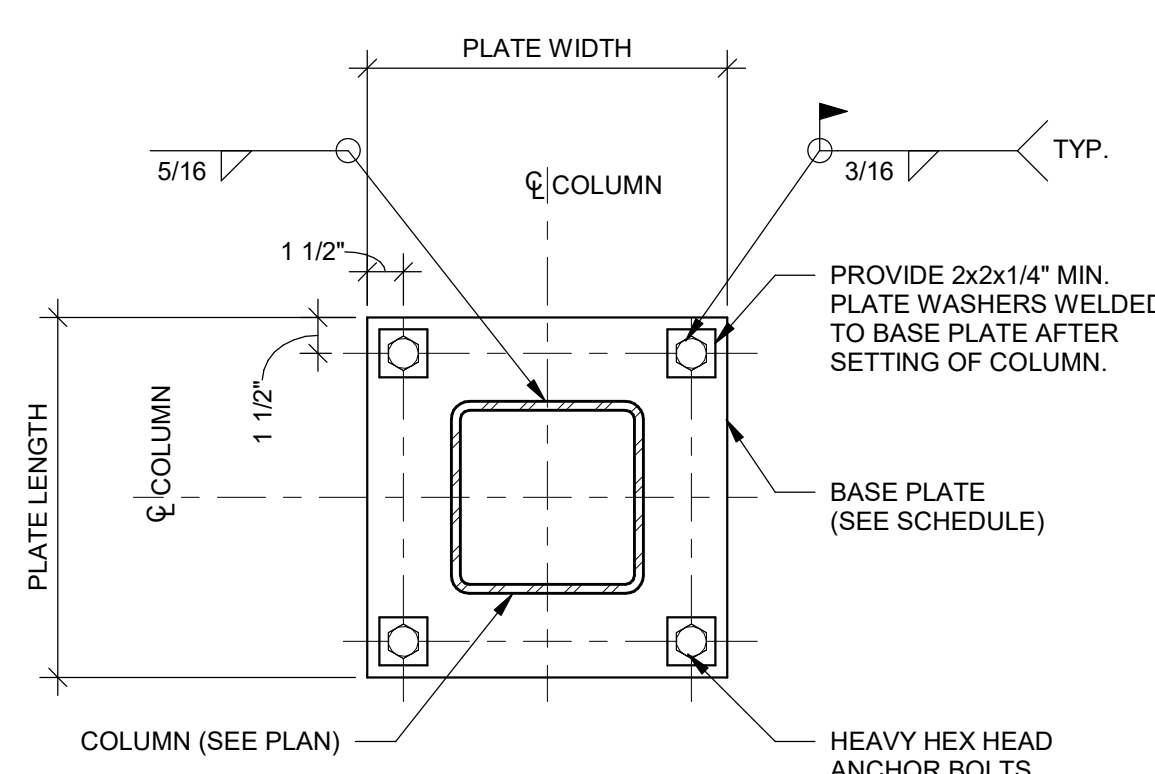
THIS DRAWING IS THE PROPERTY OF THE ENGINEER AND MAY NOT BE REPRODUCED OR USED WITHOUT THEIR WRITTEN PERMISSION. 2022 COPYRIGHT WILLETT ENGINEERING

PROJECT NUMBER: 223518 DATE: 12/29/2023 DRAWN BY: KAG CHECKED BY: BJH SHEET NO:





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

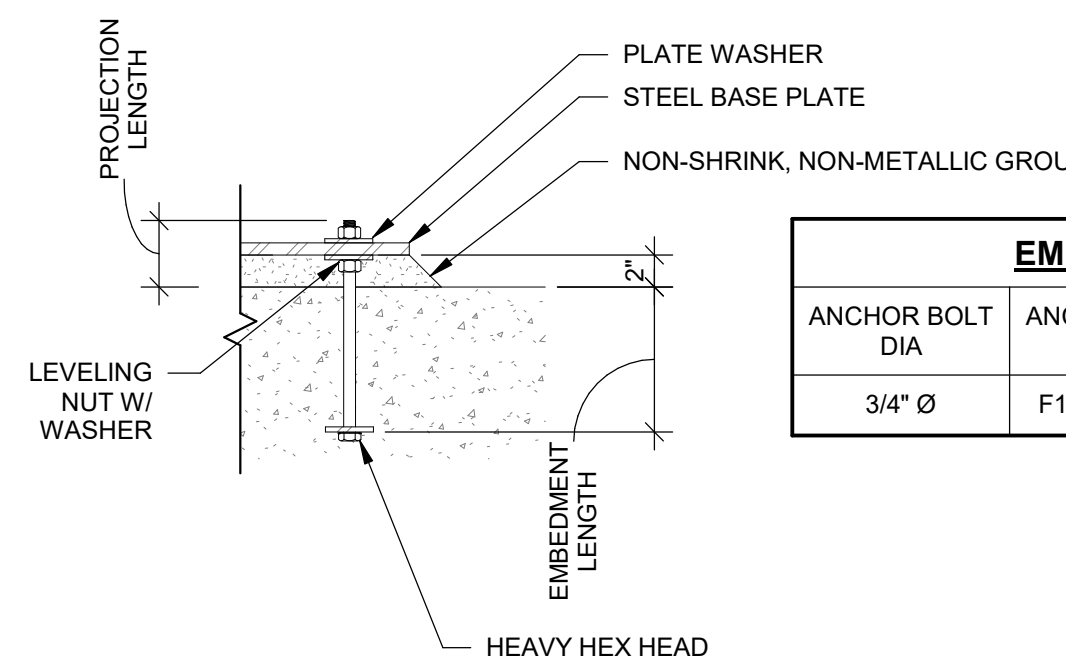


BASE PLATE SCHEDULE				
PLAN MARK	PLATE LENGTH	PLATE WIDTH	PLATE THICKNESS	ANCHOR BOLTS
TYP.	14"	14"	1"	(4) 3/4" DIA. x 12" EMBED

NOTE: ALL COLUMNS TO HAVE TYP. BASE PLATE U.N.O.

**2 BASE PLATE SCHEDULE**  
SCALE: 1 1/2" = 1'-0"

FOOTING SCHEDULE				
MARK	LENGTH	WIDTH	THICKNESS	REINFORCEMENT
F5.5	5'-6"	5'-6"	1'-4"	(7) #5 E.W.



EMBEDMENT SCHEDULE				
ANCHOR BOLT DIA	ANCHOR BOLT GRADE	MIN. EMBED. IN FOOTING	MIN. PROJECTION	
3/4" Ø	F1954 GR. 36	1'-0"	6"	

**3 ANCHOR BOLT DETAIL**  
SCALE: 1" = 1'-0"

**FOUNDATION PLAN NOTES:**

- TOP OF ALL EXTERIOR FOOTINGS SHALL BE -1'-4" BELOW FINISHED FLOOR, U.N.O.
- TOP OF ALL INTERIOR FOOTINGS SHALL BE -1'-4" BELOW FINISHED FLOOR, U.N.O.
- BOTTOM OF ALL FOOTINGS SHALL BEAR A MINIMUM OF -1'-6" BELOW FINISHED FLOOR FOR FROST PROTECTION.
- REFER TO ARCH. AND CIVIL DRAWINGS FOR LOCATION OF MOISTURE BARRIER, CURBS, EXTERIOR SLABS, DRAINAGE, RAMPS, STEPS, WALKS, ETC.
- BUILDING SLAB IS NOT DESIGNED TO SUPPORT CRANE LOADS, CONCRETE MIXING TRUCKS, OR OTHER SPECIFIC CONSTRUCTION LOADINGS.
- FOOTINGS SHALL BE CENTERED ON THE CENTERLINE OF THE WALL AND/OR COLUMNS, U.N.O.
- COORDINATE LOCATION OF LOWERED FOOTINGS WITH PLUMBING AND CAR WASH EQUIPMENT DRAWINGS.
- REFER TO ARCHITECTURAL PLANS FOR DIMENSIONS NOT SHOWN. COORDINATE SLAB ELEVATIONS AND SLOPES WITH ARCHITECTURAL PLANS.
- REFER TO ARCHITECTURAL, MEP, AND CAR WASH EQUIPMENT DRAWINGS FOR SIZE AND LOCATION OF SLAB AND FOUNDATION PENETRATIONS.
- THICKEN SLAB TO MAINTAIN THE SLAB THICKNESS AROUND FLOOR BOXES AND CONDUIT.
- BROOM FINISH ALL SLABS NOT TO RECEIVE A FINISH. SEE ARCH. FOR SLAB FINISHES.
- UNDERLAY SLABS WITH A MIN. 6" FREE DRAINING BASE COURSE.
- F.D. DENOTES FLOOR DRAINS. SEE PLUMBING AND ARCH. FOR SLOPES AND LOCATIONS.

**FOUNDATION PLAN LEGEND**

- INDICATES STEP IN FOUNDATION (SEE STEPPED FOOTING DETAIL)
- INDICATES ATYPICAL TOP OF FOOTING ELEVATION
- INDICATES A STEP IN THE SLAB ON GRADE

**CONCRETE MIX DESIGN NOTES:**

- ALL CONCRETE SHALL HAVE A MAX. W/CM = 0.45, AND SHALL BE AIR-ENTRAINED. REFER TO ACI 318 TABLE 4.4.1 FOR AIR CONTENT REQUIREMENTS.
- THE CONCRETE MIX FOR THE TUNNEL SLAB SHALL LIMIT CEMENTITIOUS MATERIALS PER ACI 318 TABLE 4.4.2.
- SEE CONCRETE GENERAL NOTES FOR ADDITIONAL REQUIREMENTS.

GC NOTE:  
LAYOUT TUNNEL FROM A TO J

NOTE:  
ANY EQUIPMENT LAYOUTS/DATA SHOWN ON THESE DRAWINGS IS APPROXIMATE ONLY AND SHALL BE COORDINATED WITH WASH EQUIPMENT VENDORS PRIOR TO START. COORDINATE ALL ROUGH-INS REQUIRED WITH SUCH VENDOR PRIOR TO START

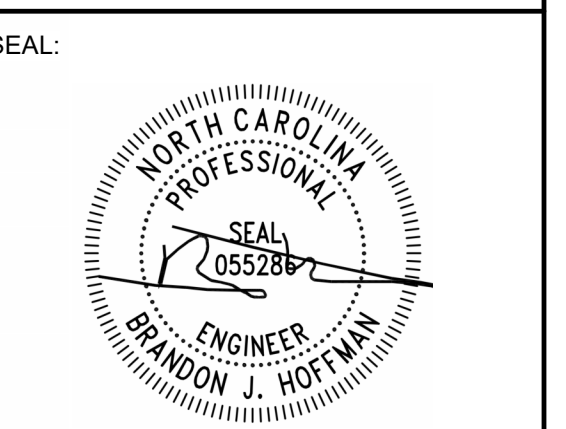
**Willett Engineering**

A GRAY COMPANY

3528 Habersham at Northlake  
Tucker, Georgia 30084  
Phone: 770.270.9484  
www.WillettEngineering.com

**NEW TIDAL WAVE AUTO SPA**

US 401  
ROLESVILLE, NC

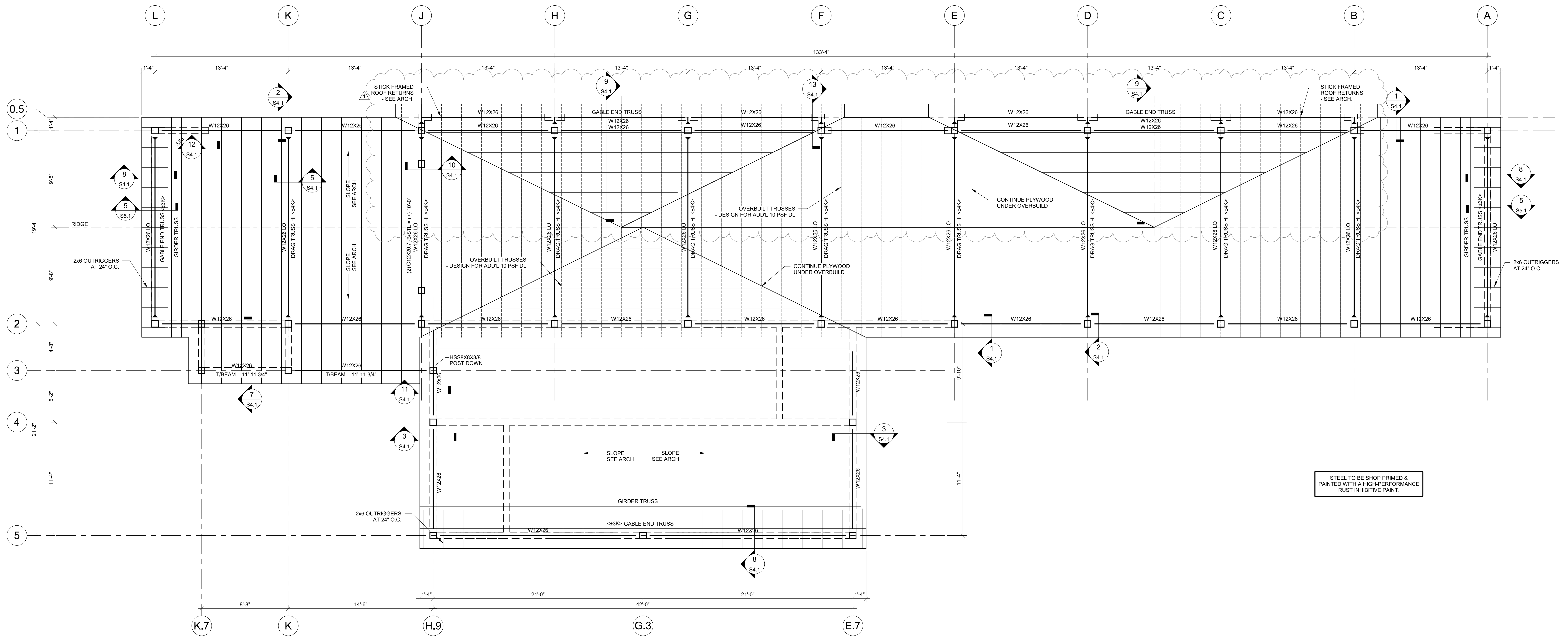


DRAWING TITLE:  
**FOUNDATION PLAN**

REVISIONS:		
NO.	DESCRIPTION	DATE

THIS DRAWING IS THE PROPERTY OF THE ENGINEER AND MAY NOT BE REPRODUCED OR USED WITHOUT THEIR WRITTEN PERMISSION.  
2022 © COPYRIGHT WILLETT ENGINEERING  
PROJECT NUMBER: 223518  
DATE: 12/29/2023  
DRAWN BY: KAG  
CHECKED BY: BJH  
SHEET NO:

**S1.1**



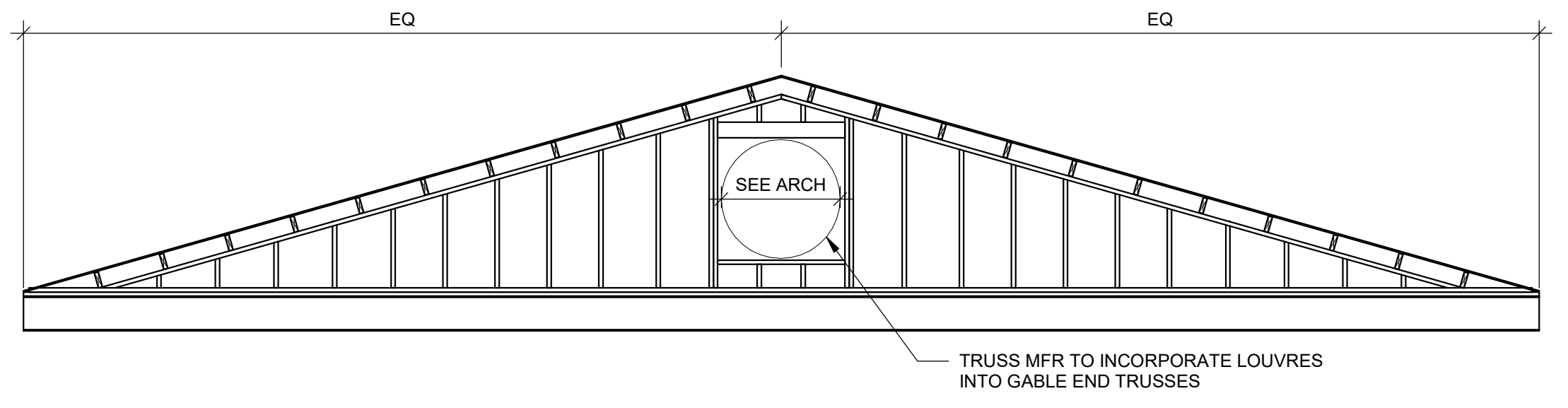
**1**  
**S2.1** **ROOF FRAMING PLAN**

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

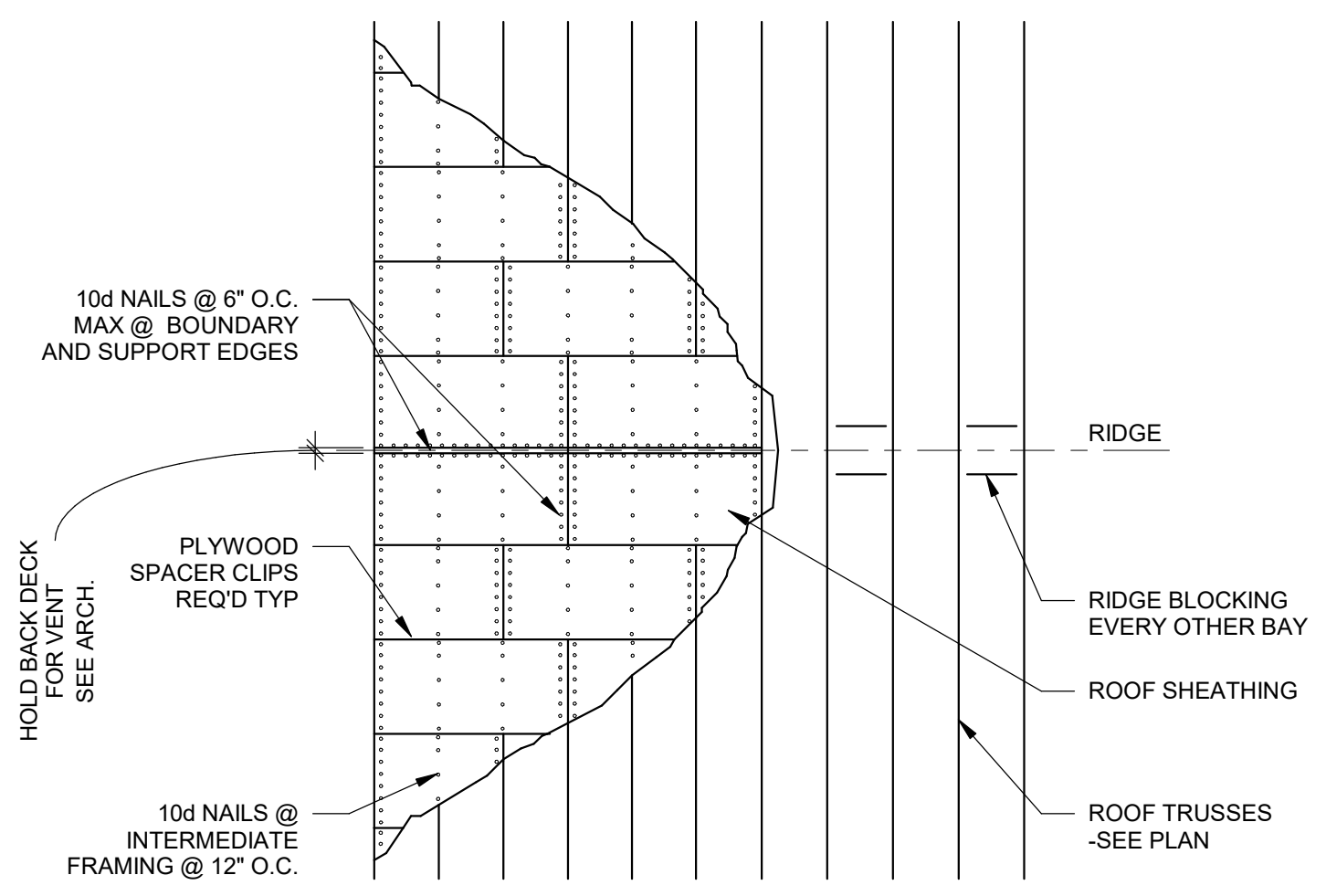
ROOF TRUSS LOADS		
LOAD	TOP CHORD	BOTT. CHORD
DEAD	7.5 PSF	12.5 PSF
ROOF LIVE	20.0 PSF	0.0 PSF
LIVE	0.0 PSF	10.0 PSF 1,2
SNOW	21.8 PSF	0.0 PSF
WIND (DOWN)	26.8 PSF (ULT)	0.0 PSF

- ROOF FRAMING PLAN NOTES**
- INDICATES SPAN OF 5/8" PLYWOOD ROOF DECK UNDER 26 GAUGE METAL PANELS. SEE NOTES & DETAILS FOR NAILING.
  - TRUSS MANUFACTURER SHALL DESIGN AND PROVIDE ALL BRACING AND UPLIFT BRIDGING.
  - STRUSS = 14" O/U N.O. T/B EAM = 13" O/U N.O.
  - ROOF IS NOT DESIGNED TO SUPPORT ANY FUTURE ROOF TOP EQUIPMENT - WHAT IS INDICATED ON THIS DRAWING SHALL BE INCORPORATED INTO THE DESIGN BY THE TRUSS MFR.
  - THE TRUSS MANUFACTURER SHALL DESIGN ALL JOISTS FOR A MAXIMUM DEFLECTION DUE TO TRANSIENT LOAD OF L/360.
  - REFER TO ARCHITECTURAL AND MEP DRAWINGS FOR SIZE AND LOCATION OF DECK PENETRATIONS.

- ROOF FRAMING PLAN LEGEND:**
- <±XXK> INDICATES AXIAL ASD (0.6W OR 0.7EQ) LOAD TO BE INCORPORATED INTO MEMBERS AND CONNECTION DESIGN
  - ◀ DENOTES MOMENT CONNECTION



**TYP. GABLE END ELEVATION**



**ROOF DIAPHRAGM NAILING**

**Willett Engineering**  
A GRAY COMPANY

3528 Habersham at Northlake  
Tucker, Georgia 30084  
Phone: 770.270.9484  
www.WillettEngineering.com

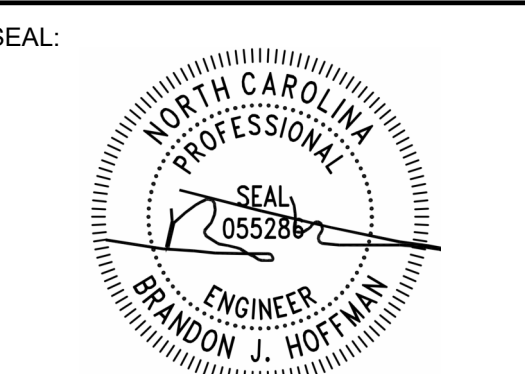
**NEW TIDAL WAVE AUTO SPA**

US 401  
ROLESVILLE, NC

2022 © COPYRIGHT  
WILLETT ENGINEERING

PROJECT NUMBER: 223518  
DATE: 12/29/2023  
DRAWN BY: KAG  
CHECKED BY: BJH  
SHEET NO:

**S2.1**



DRAWING TITLE:  
**FOUNDATION SECTIONS & DETAILS**

REVISIONS:

NO.	DESCRIPTION	DATE

THIS DRAWING IS THE PROPERTY OF THE ENGINEER AND MAY NOT BE REPRODUCED OR USED WITHOUT THEIR WRITTEN PERMISSION.  
2022 © COPYRIGHT  
WILLETT ENGINEERING

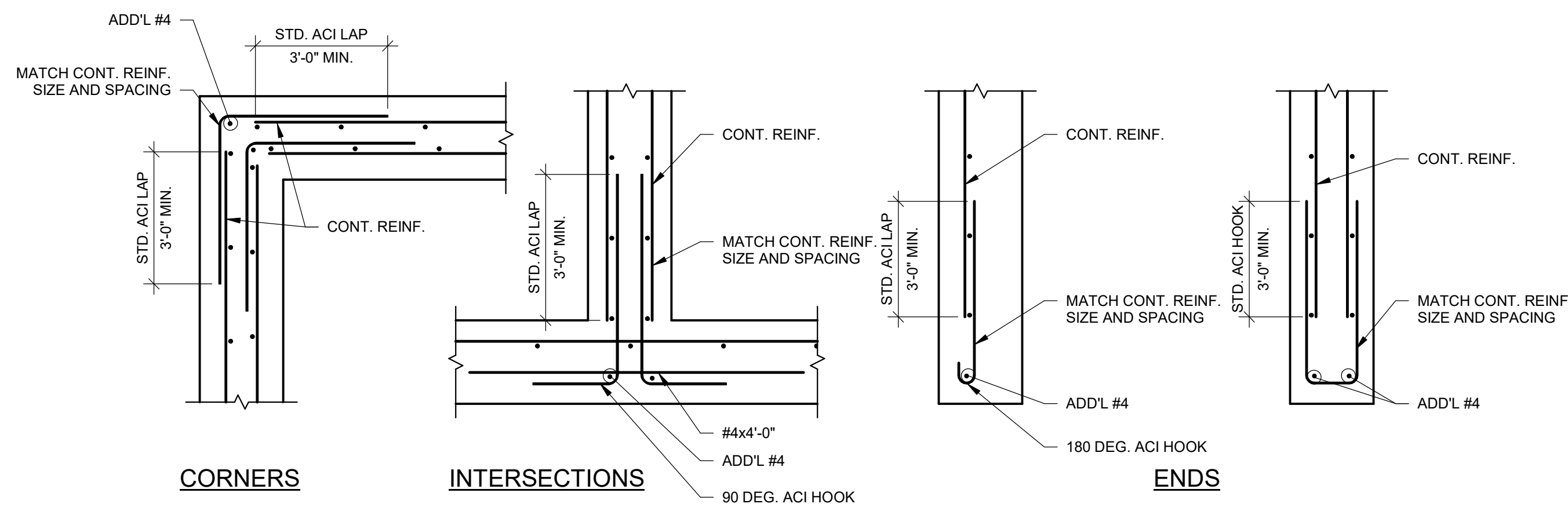
PROJECT NUMBER: 223518

DATE: 12/29/2023

DRAWN BY: KAG

CHECKED BY: BJH

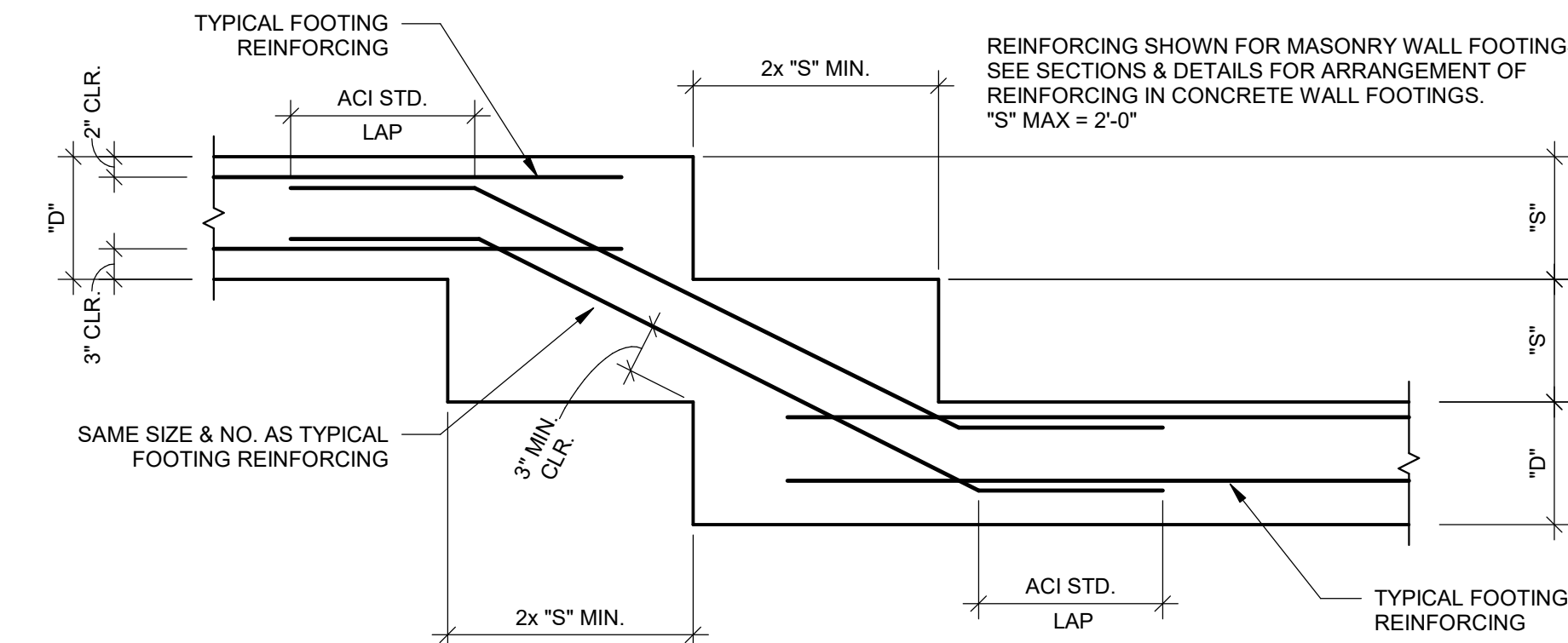
SHEET NO:



**TYP. REINF. ARRANGEMENTS AT CORNERS**

1  
S3.1

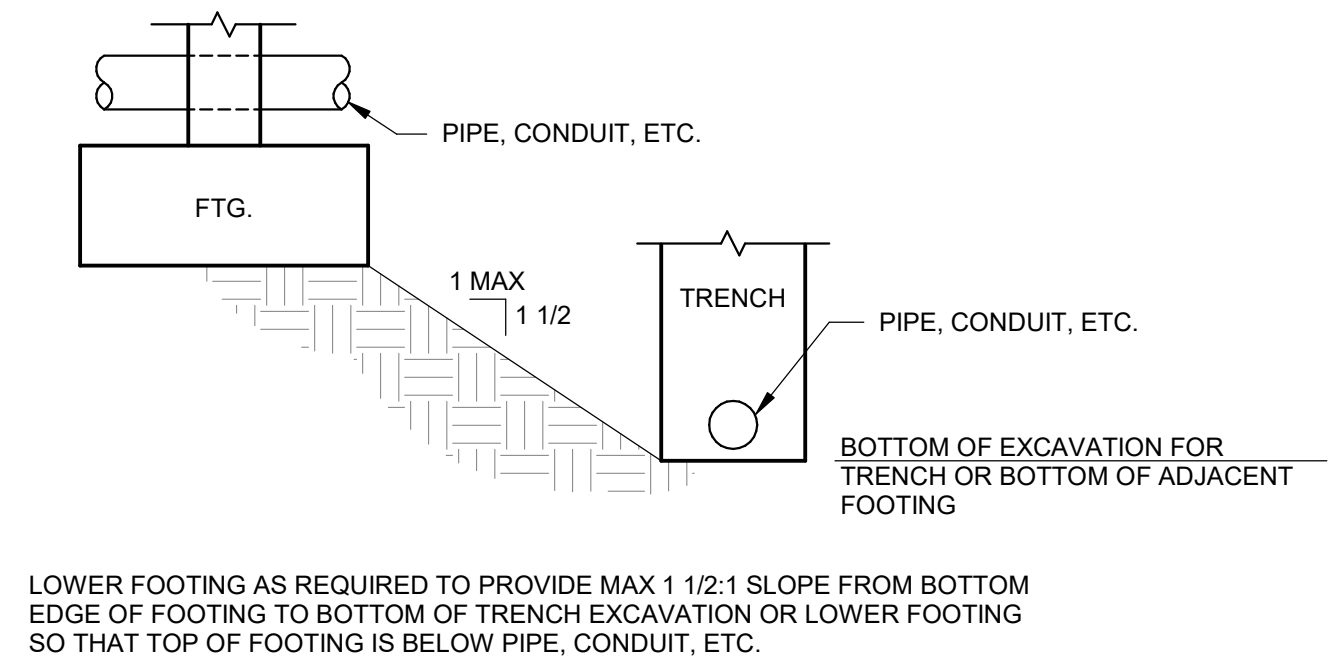
SCALE: 3/4" = 1'-0"



**TYP. STEPPED FOOTING**

2  
S3.1

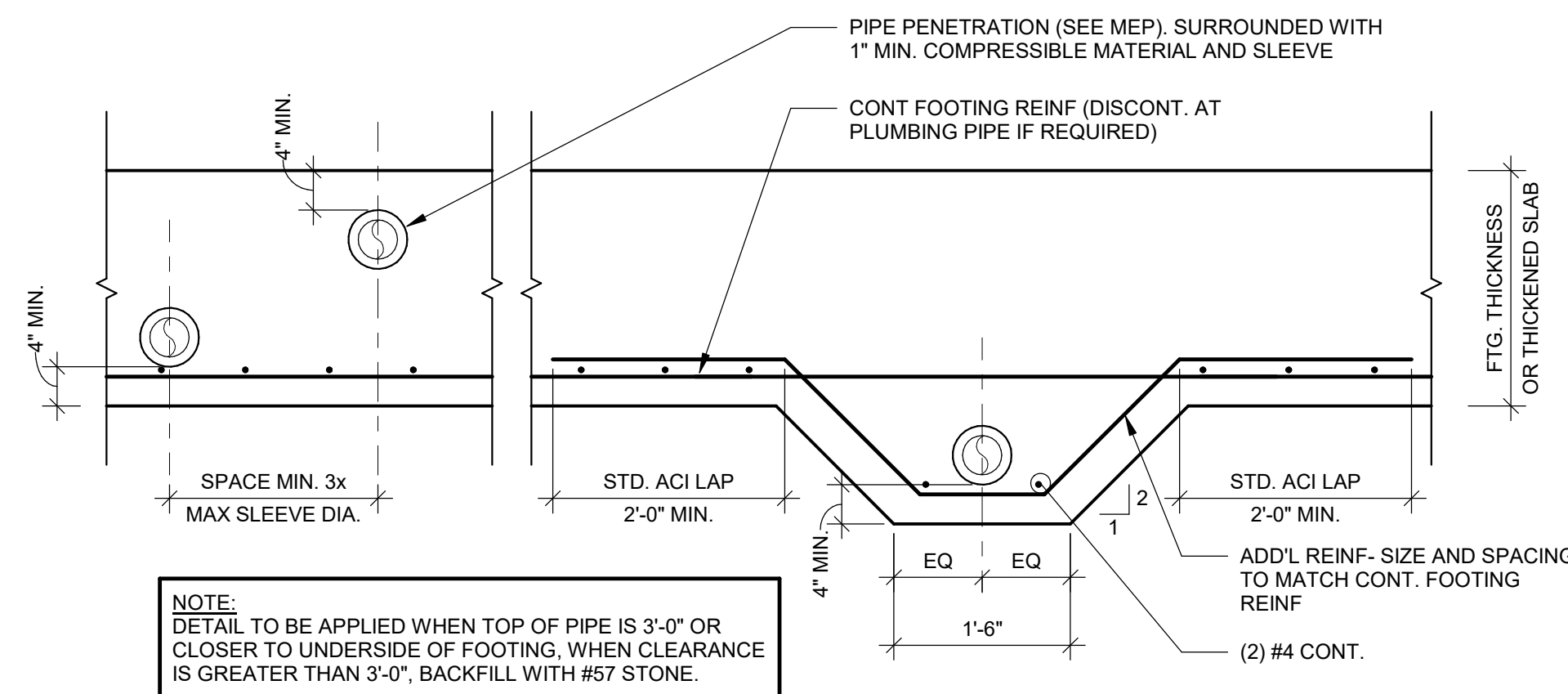
SCALE: 3/4" = 1'-0"



**TYP. FOUNDATION INFLUENCE DETAIL**

3  
S3.1

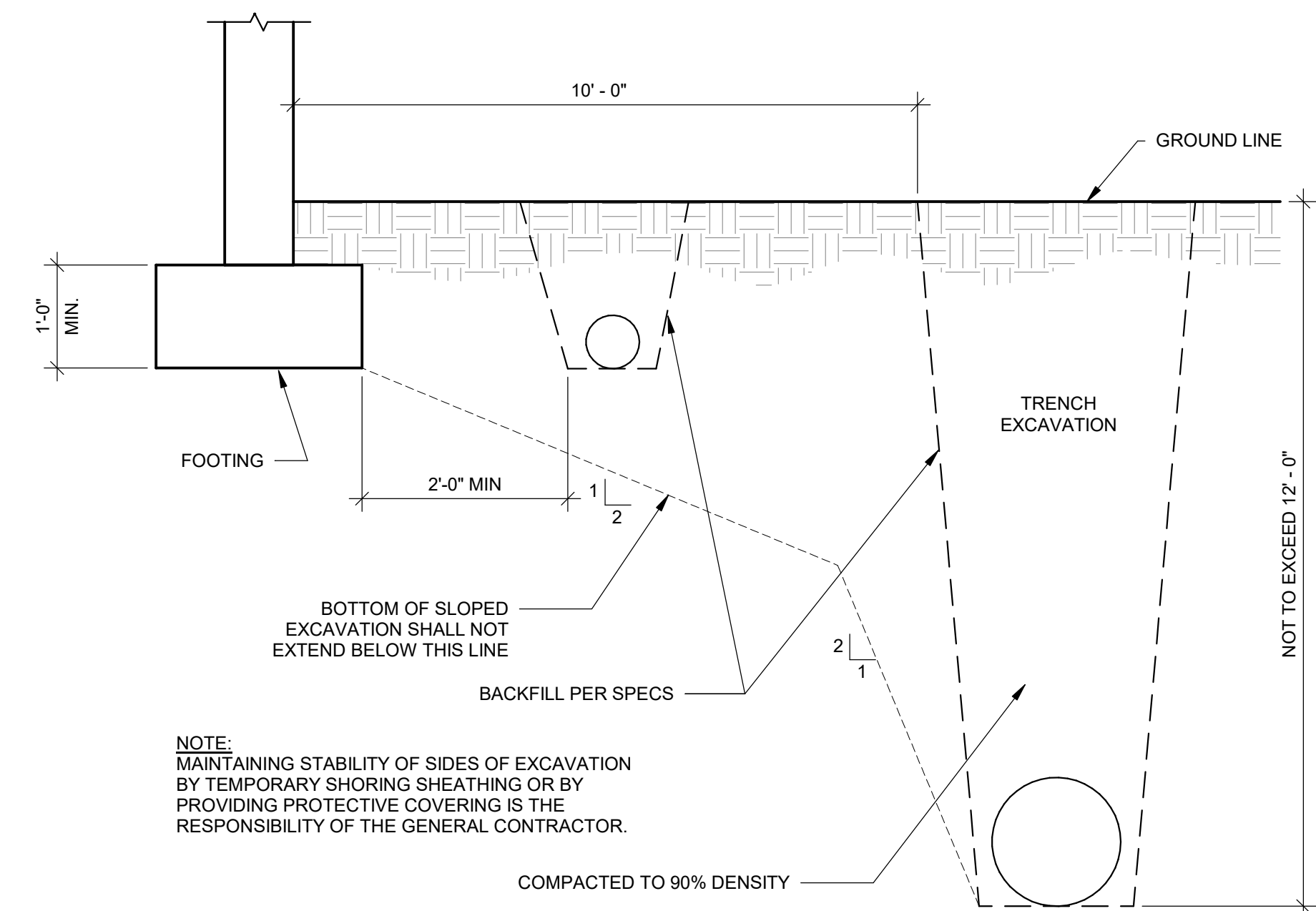
SCALE: 3/4" = 1'-0"



**TYP. UTILITIES UNDER SLAB OR WALL FOOTING**

4  
S3.1

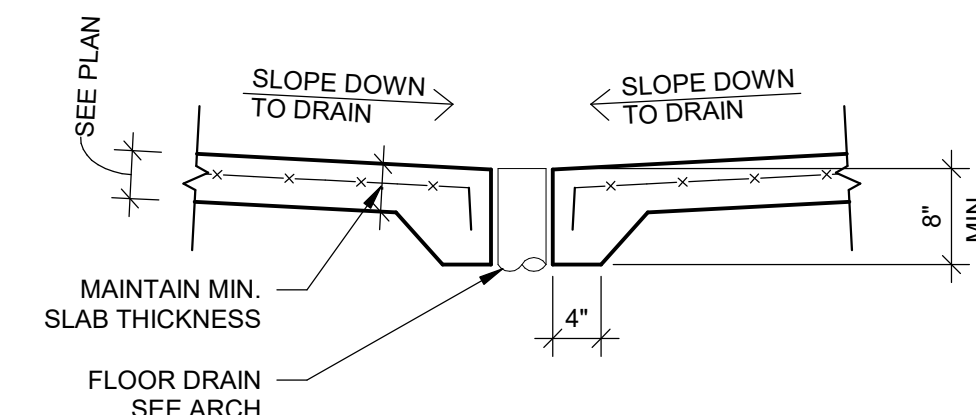
SCALE: 3/4" = 1'-0"



**TYP. EXCAVATIONS PARALLEL TO WALL FOOTING**

5  
S3.1

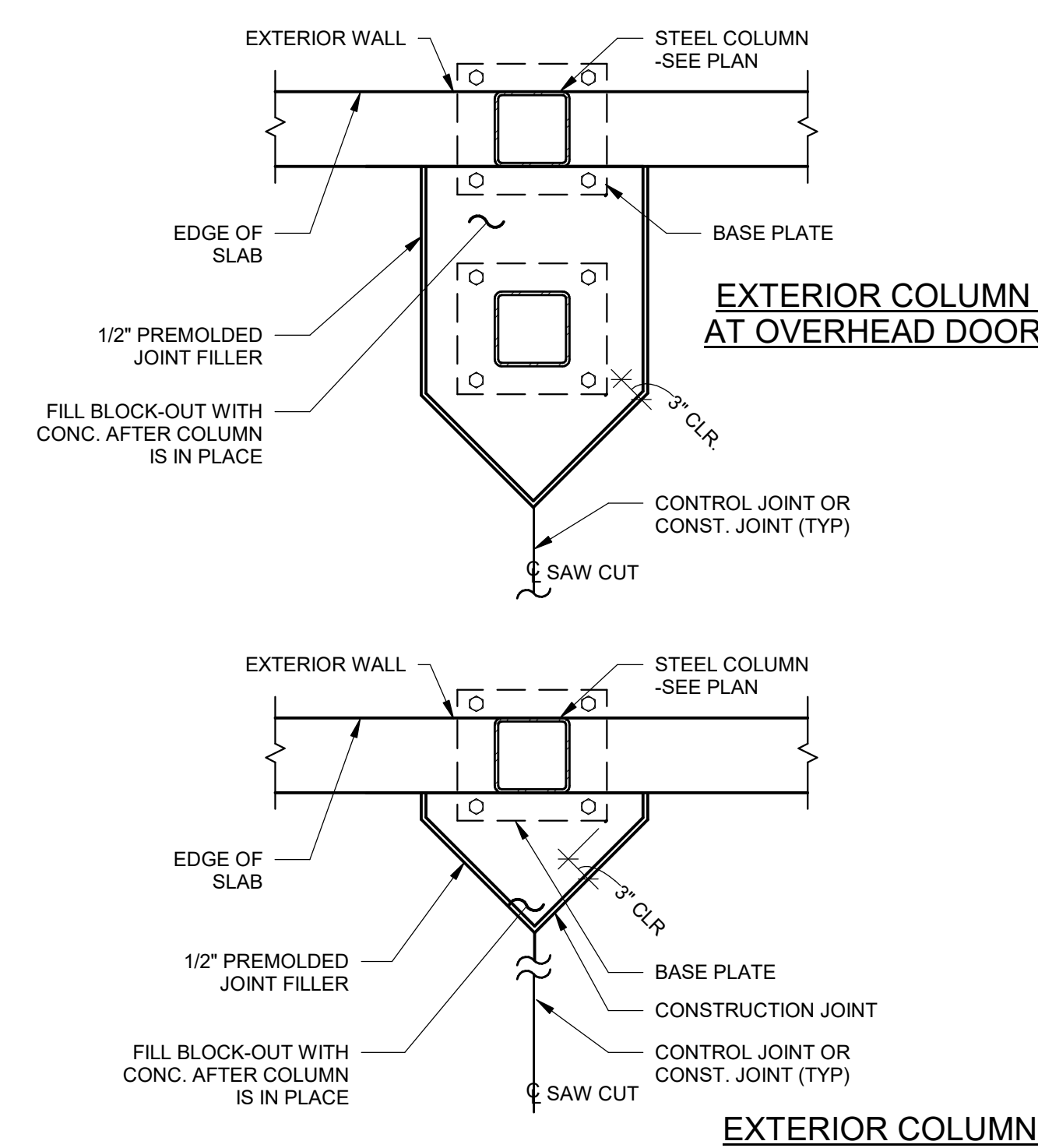
SCALE: 3/4" = 1'-0"



**TYP. SLAB AT FLOOR DRAIN**

6  
S3.1

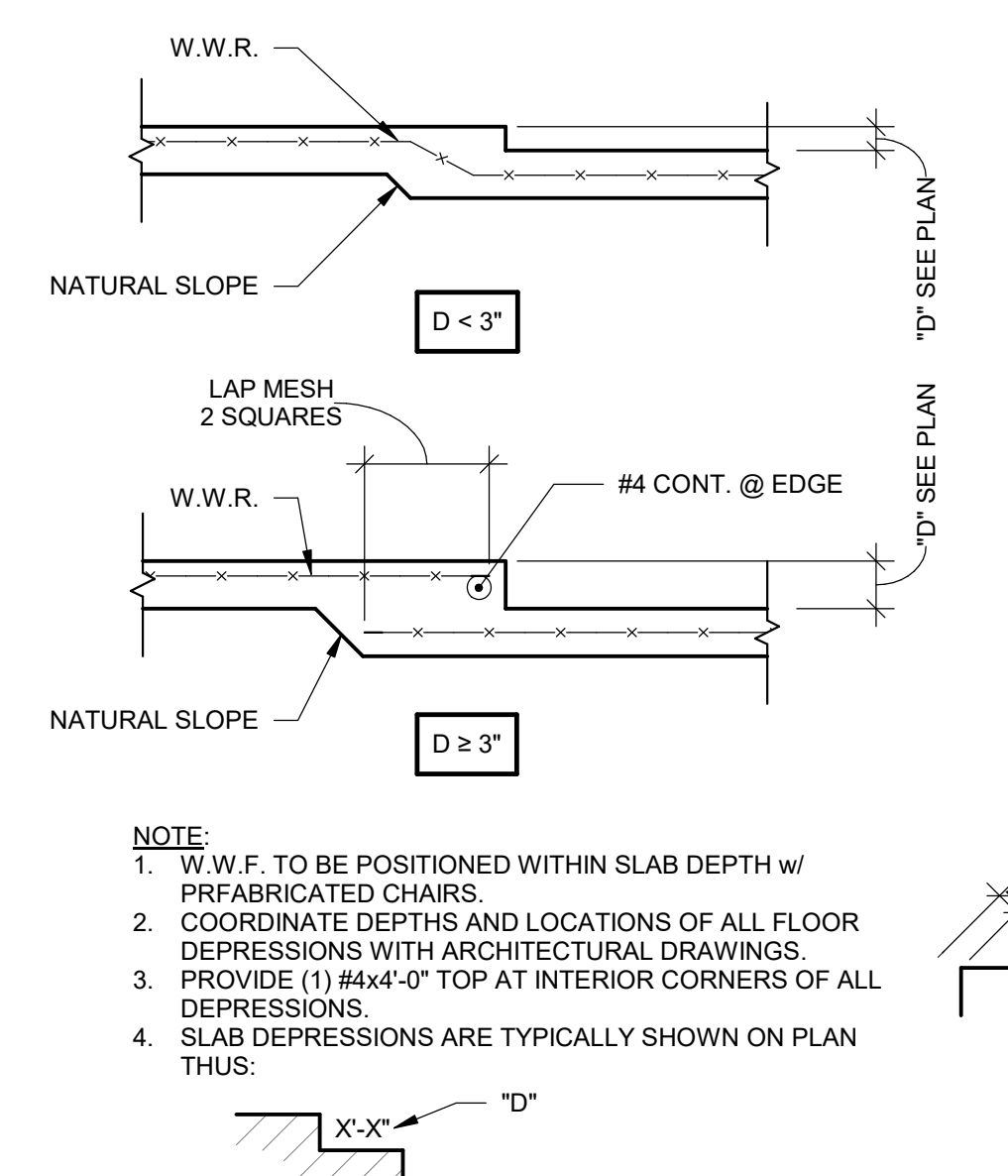
SCALE: 3/4" = 1'-0"



**COLUMN ISOLATION JOINTS**

7  
S3.1

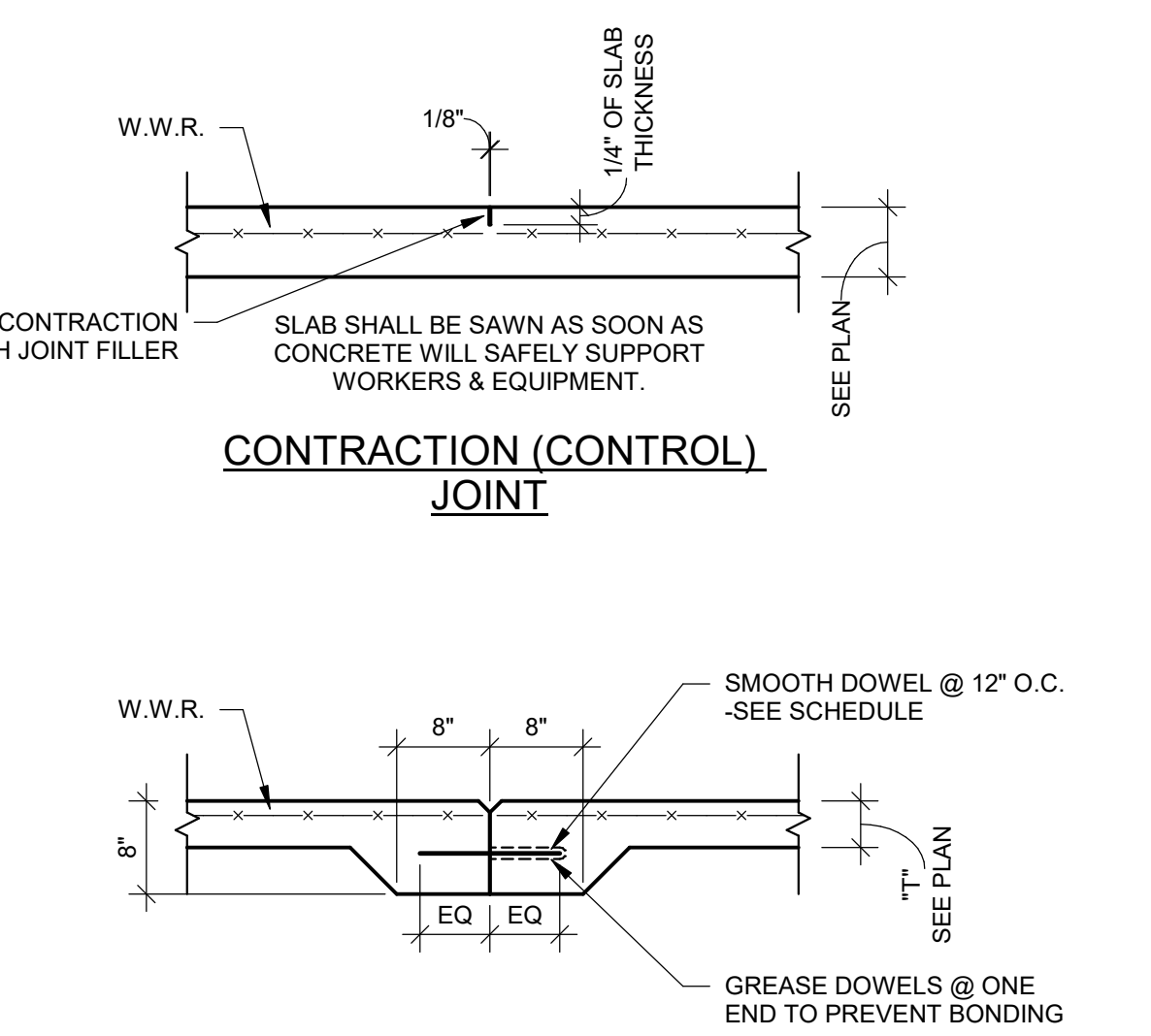
SCALE: 3/4" = 1'-0"



**TYP. DEPRESSED SLAB ON GRADE**

8  
S3.1

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



**TYP. JOINTS IN SLAB ON GRADE**

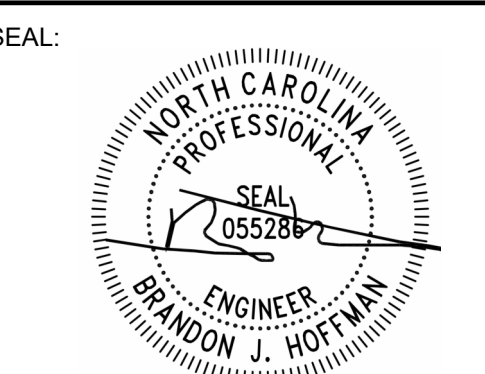
9  
S3.1

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

**CONSTRUCTION JOINT DOWELS**

T"	DOWEL SIZE
4"	5/8" DIA. x1'-0"
5"	5/8" DIA. x1'-0"
6"	3/4" DIA. x1'-2"
7"	7/8" DIA. x1'-2"
8"	1" DIA. x1'-2"
9"	1 1/8" DIA. x1'-4"
10"	1 1/4" DIA. x1'-4"

- CONSTRUCTION JOINT NOTES:**
1. SEE PLAN FOR SLAB THICKNESS (T) AND REINFORCEMENT.
  2. SLAB REINFORCEMENT SHALL BE CHAIRED BY SOIL SUPPORTED SLAB BOLSTERS.
  3. BREAK BOND BETWEEN NEW AND PREVIOUSLY PLACED SLAB BY SPRAYING OR PAINTING EXPOSED SIDE OF KEY AND DOWEL WITH A CURING COMPOUND, ASPHALTIC EMULSION, OR FORM OIL.
  4. REFER TO SPECIFICATIONS AND DRAWINGS FOR SUB FLOOR DRAINAGE SYSTEM, SUBGRADE PREPARATION AND/OR MUD SLAB ON VAPOR BARRIER REQUIREMENTS.
  5. SUBGRADE SHALL BE FREE OF STANDING WATER AT THE TIME OF CONCRETE PLACEMENT.



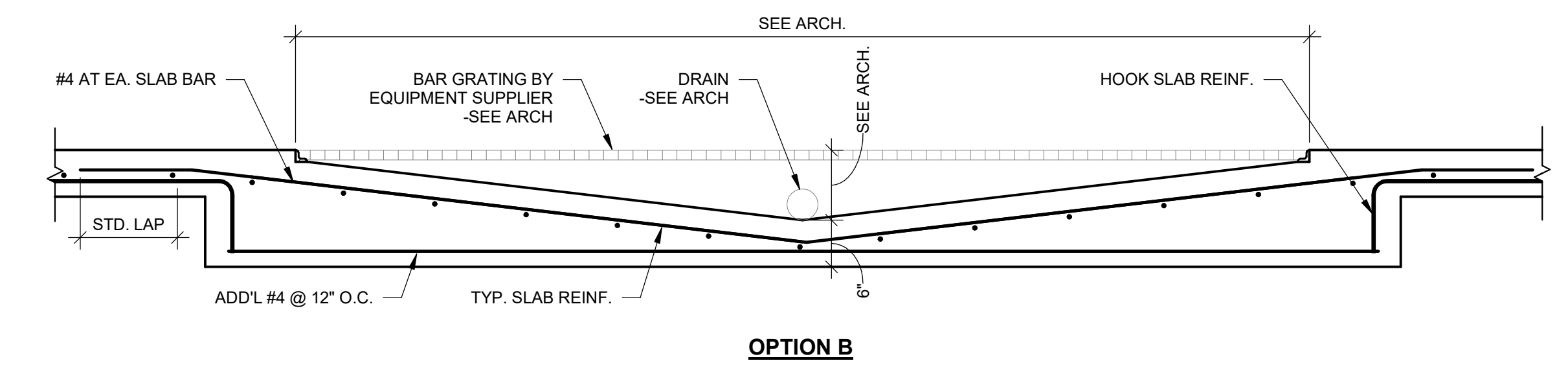
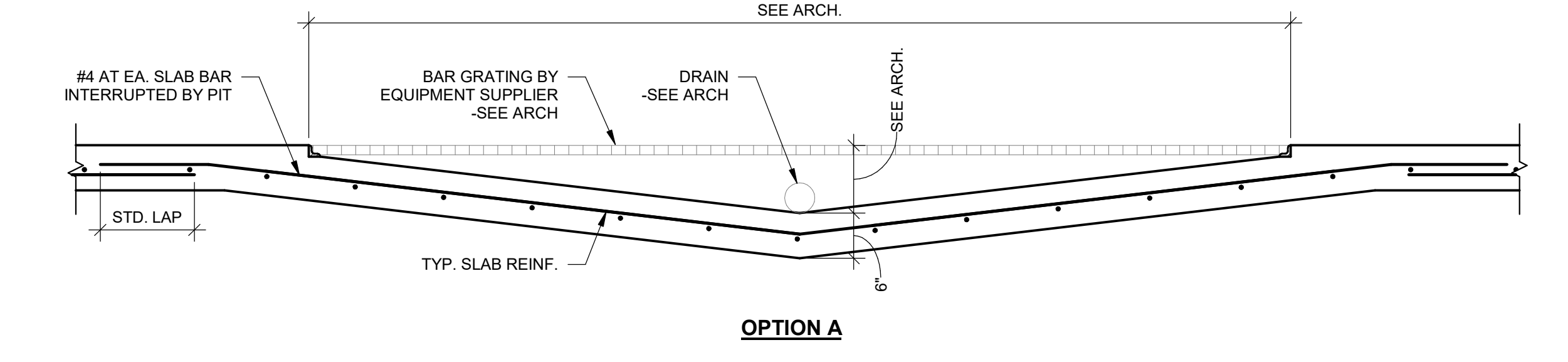
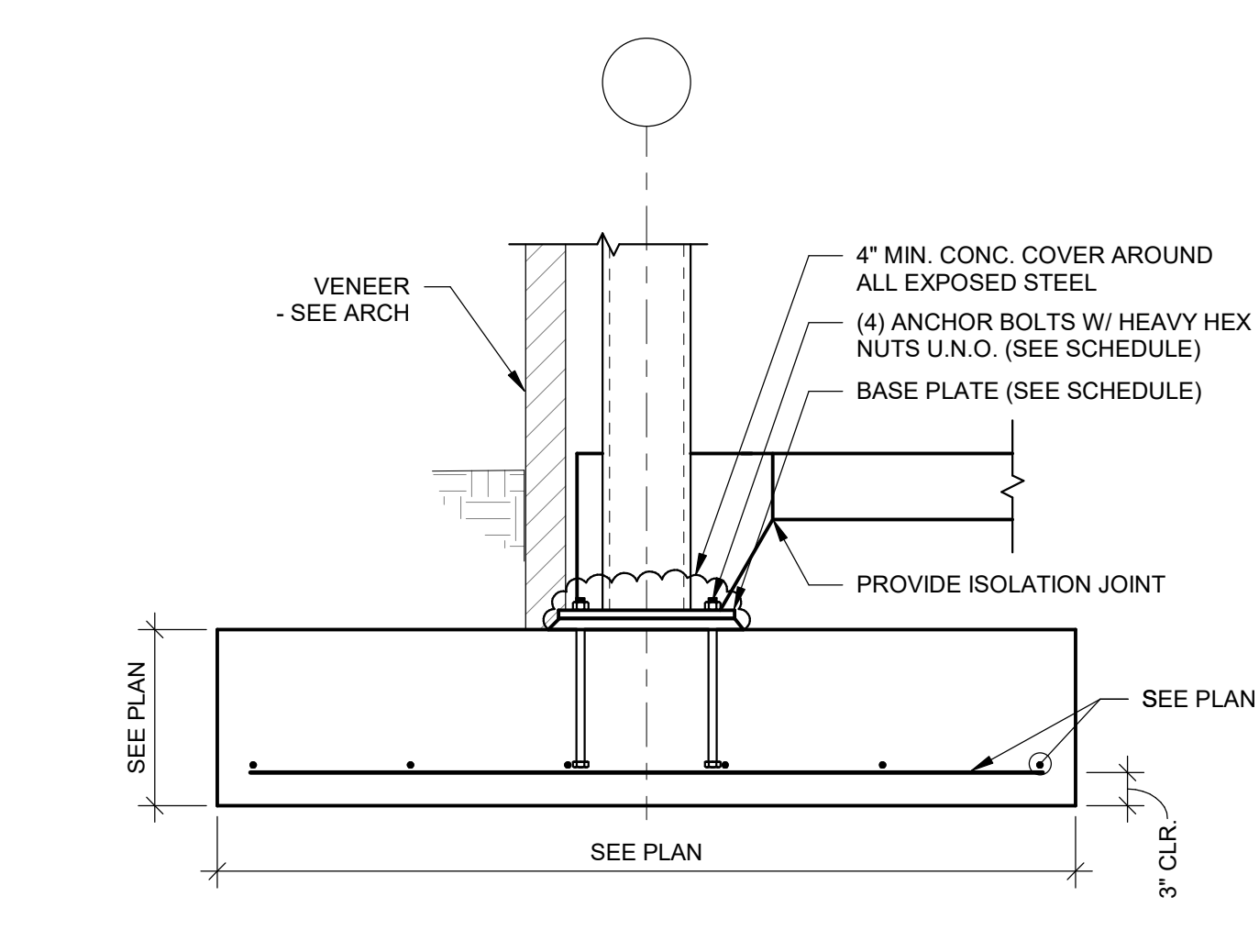
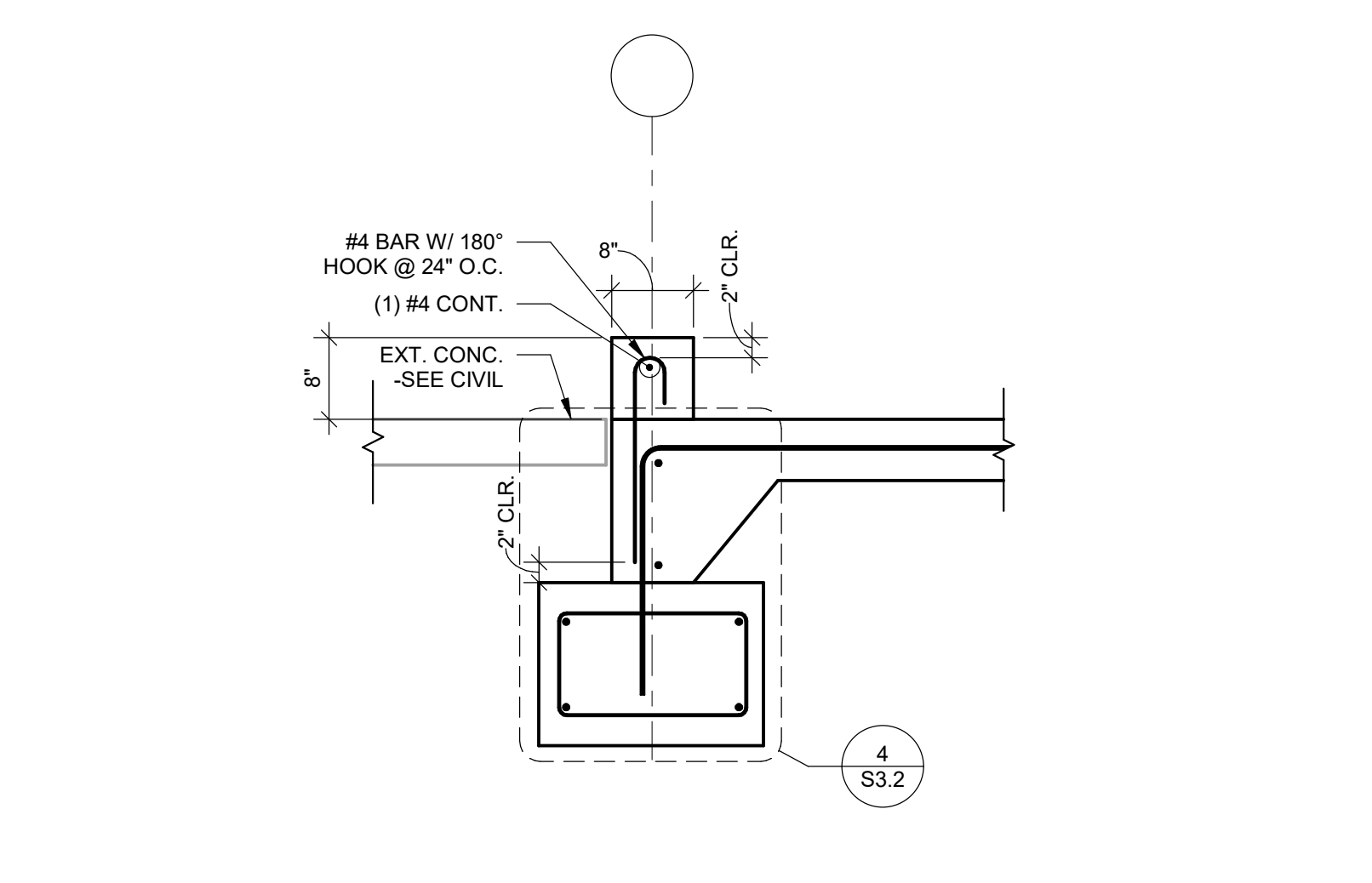
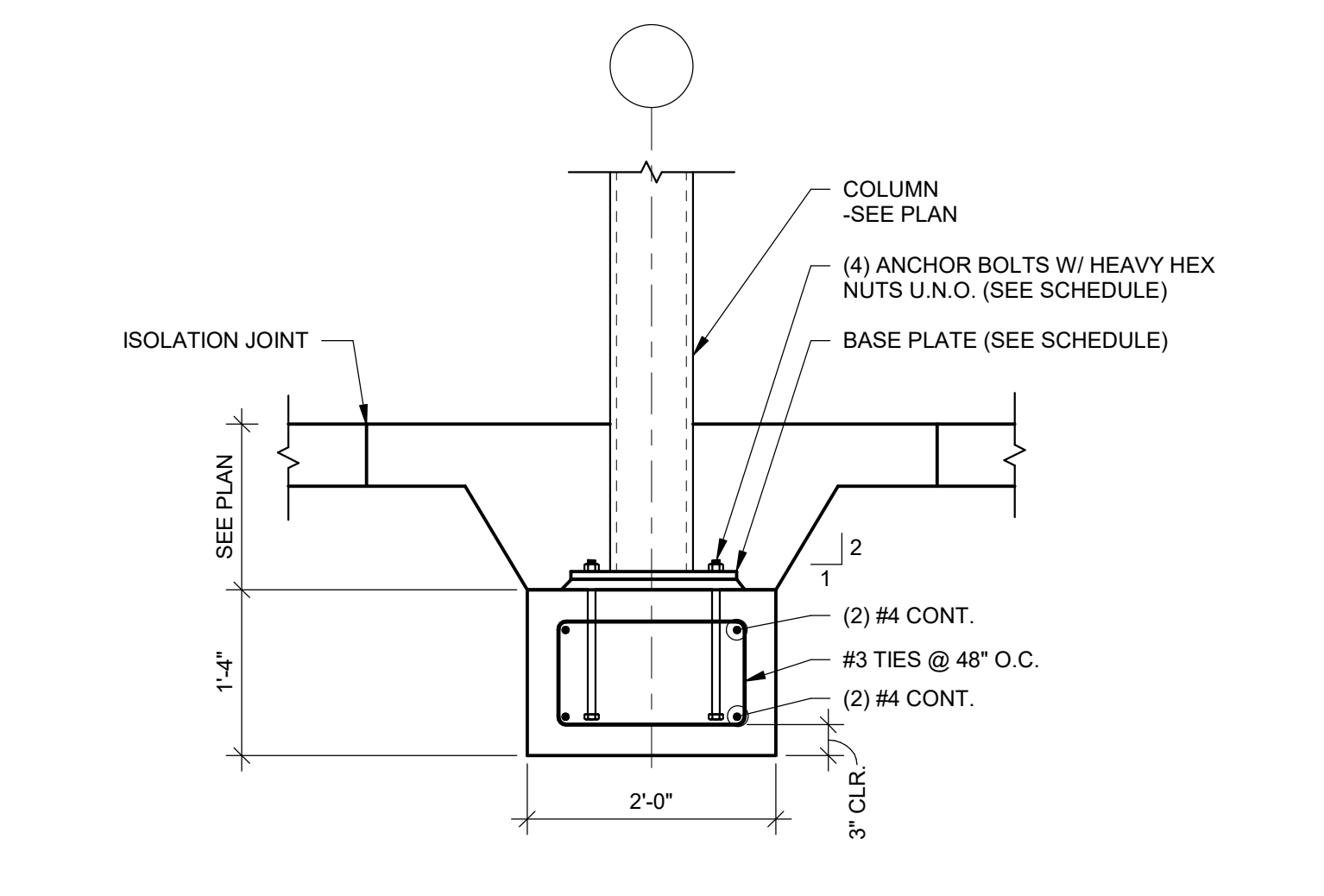
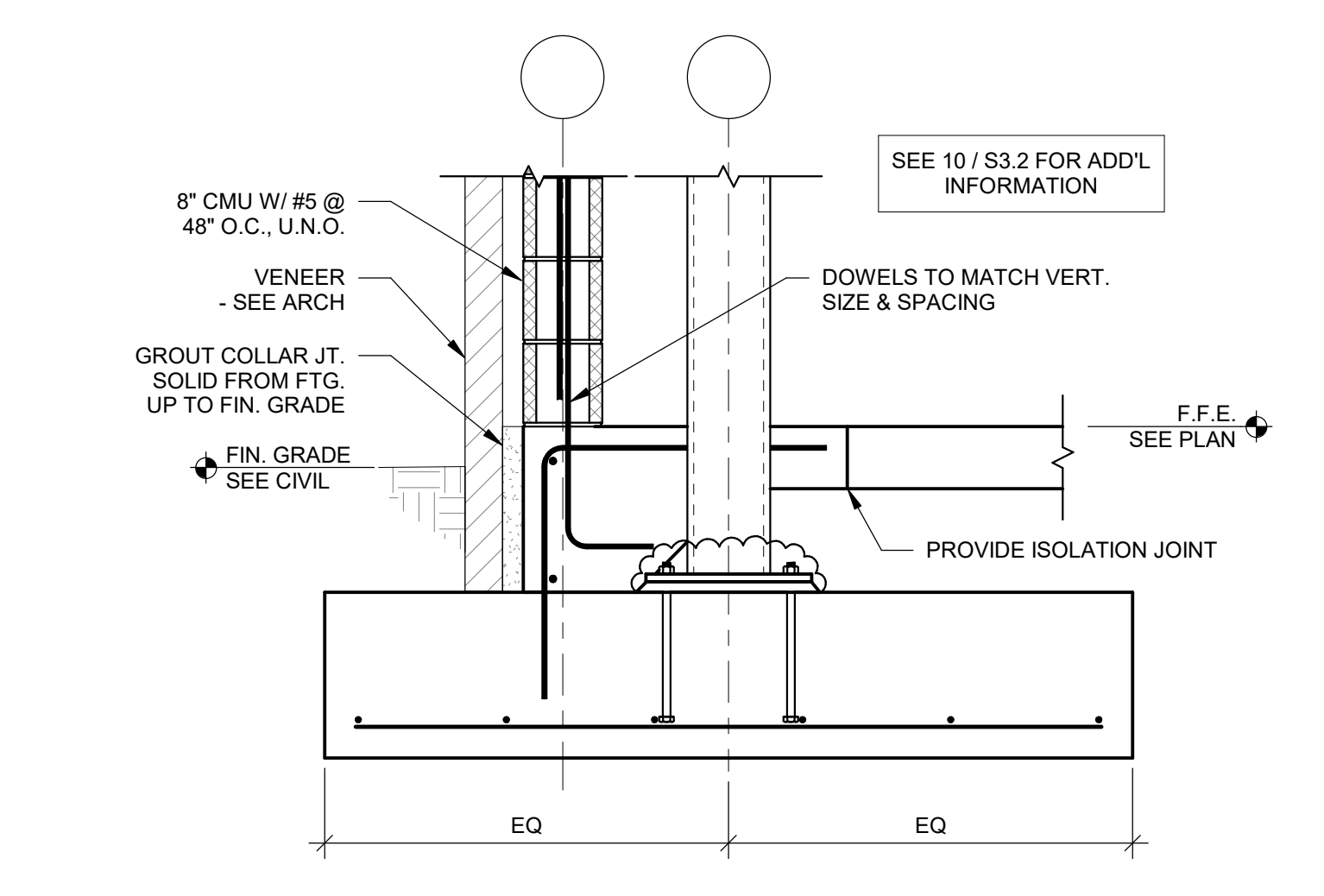
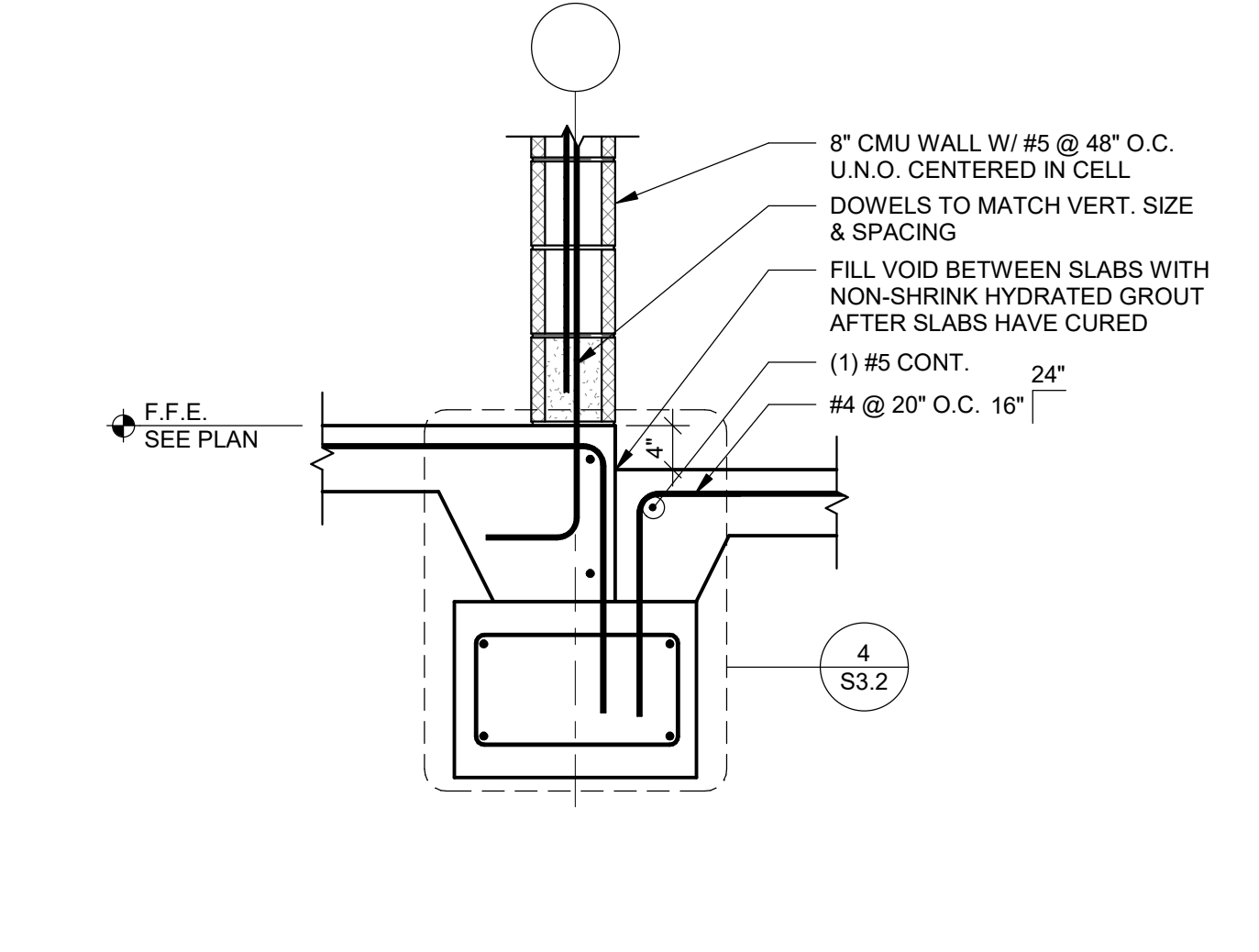
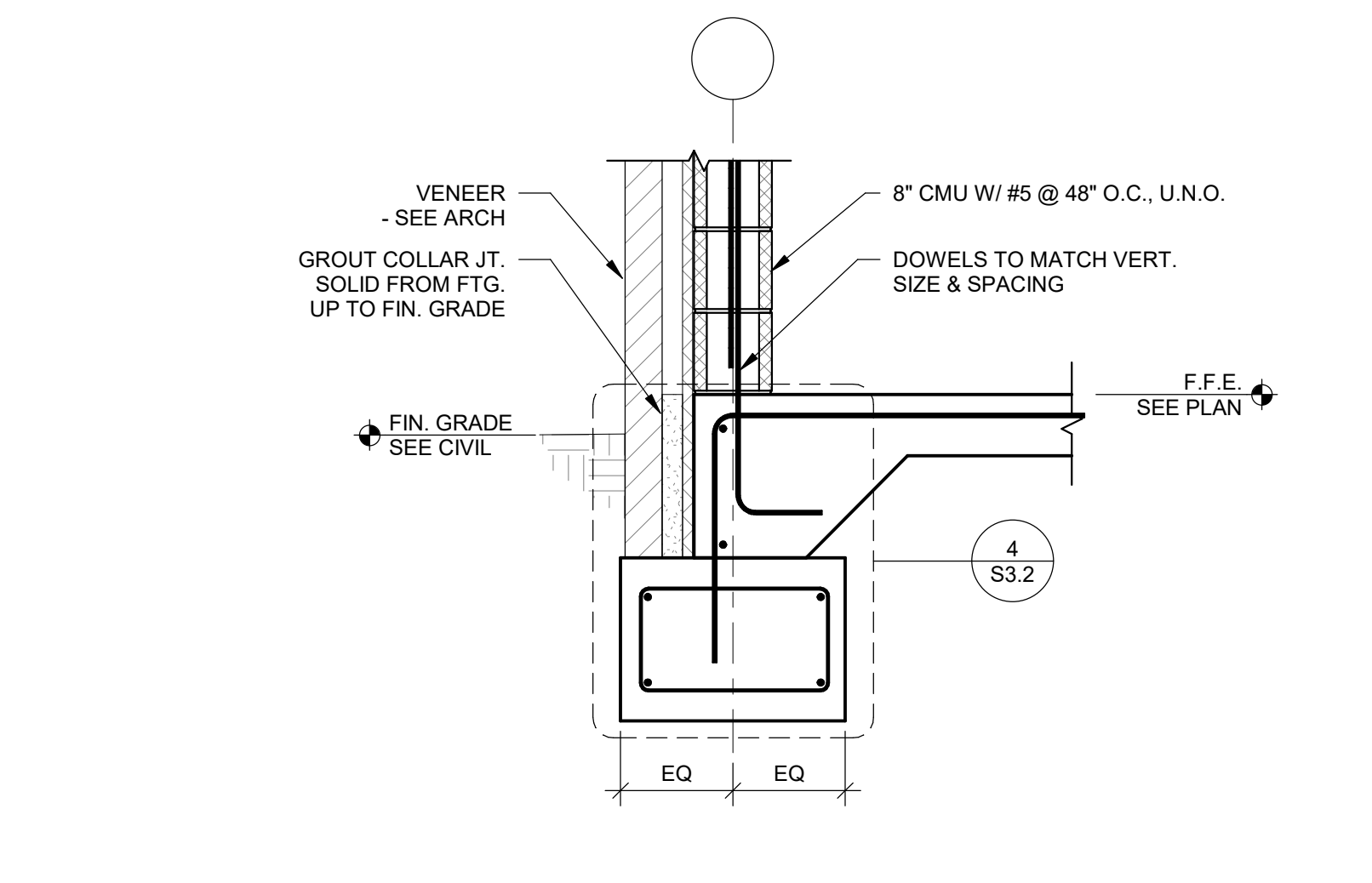
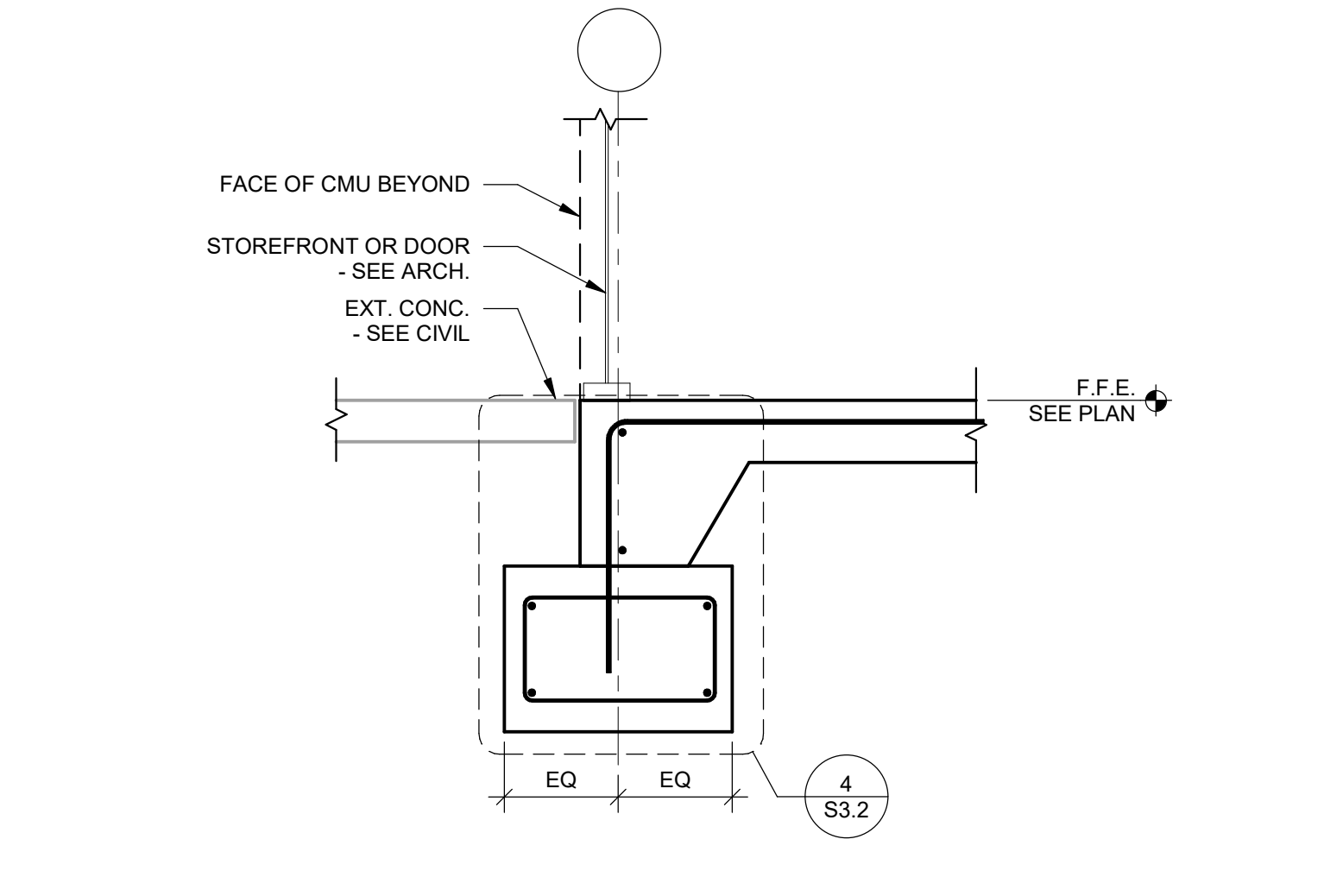
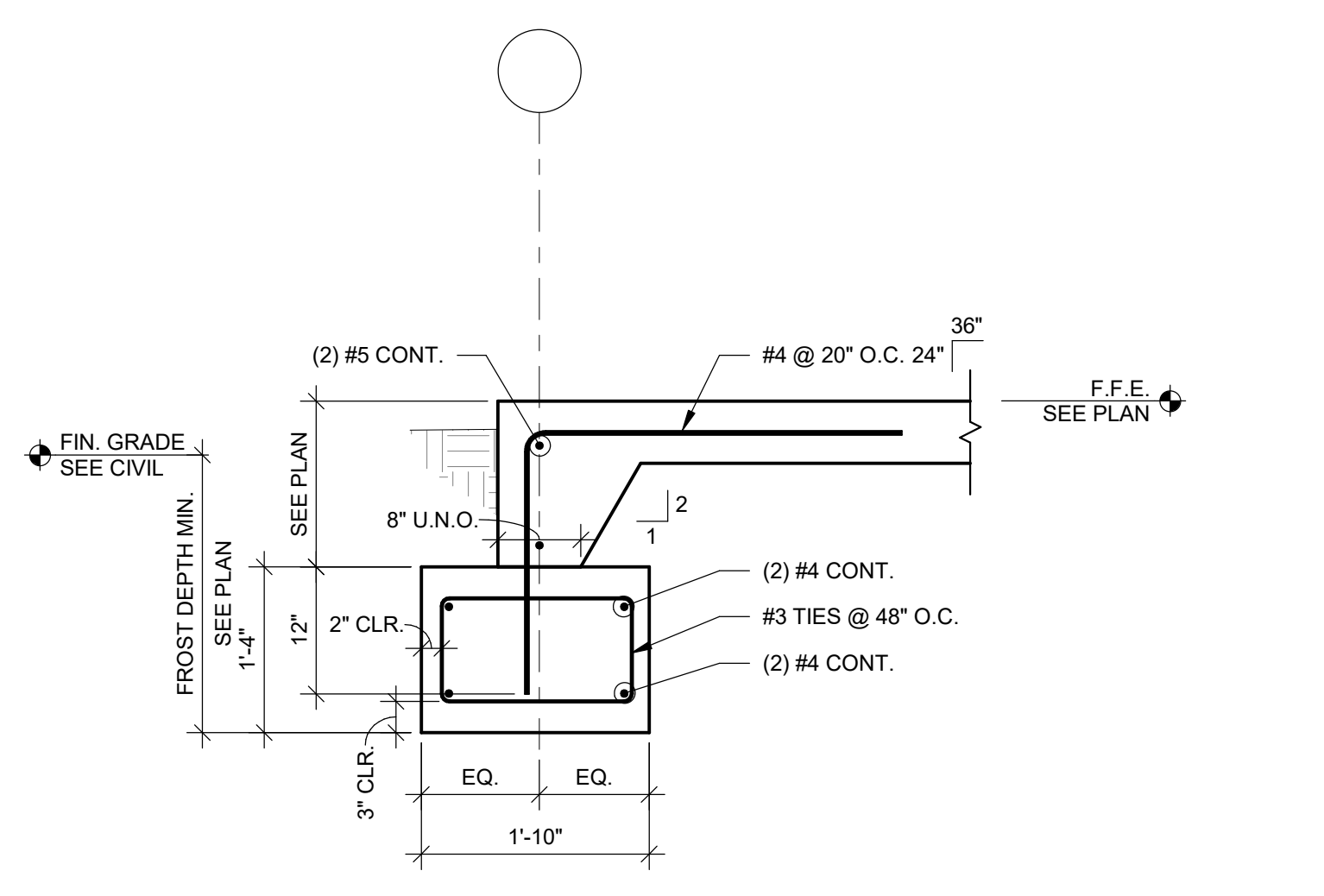
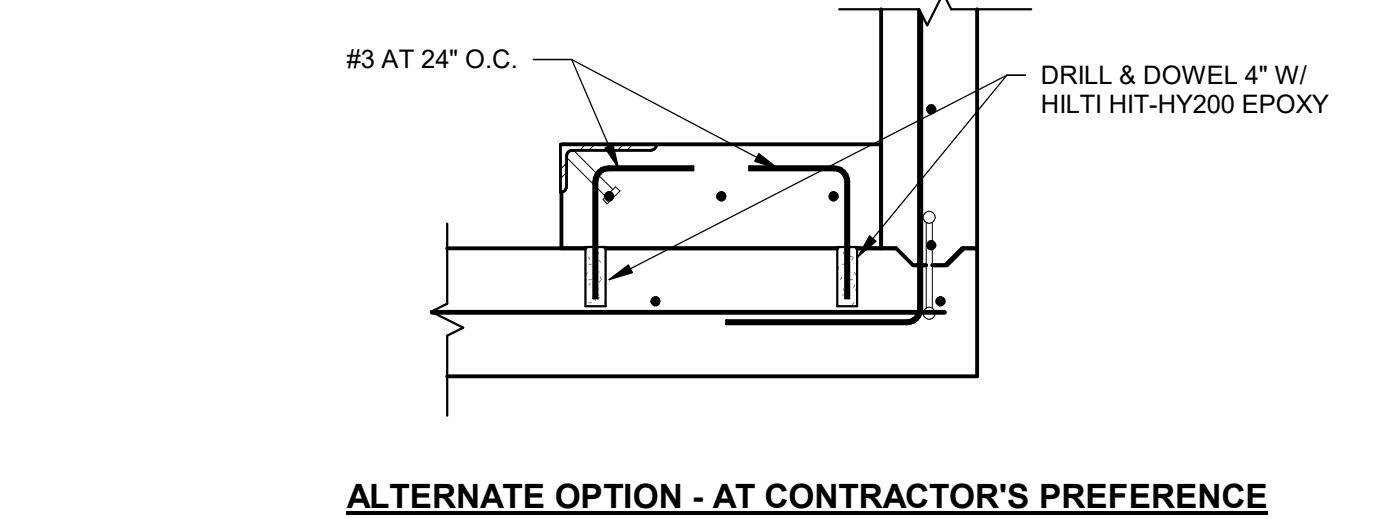
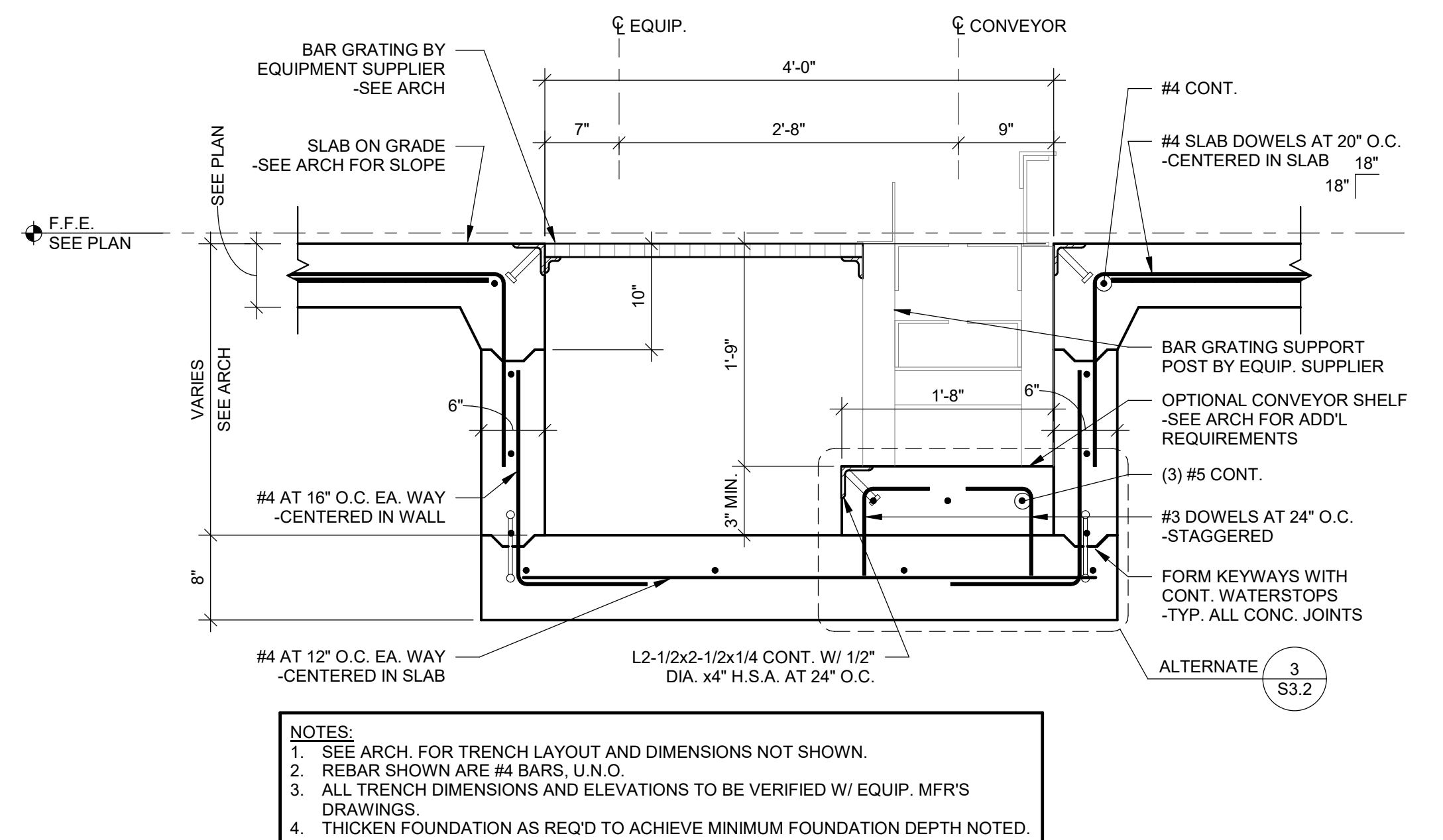
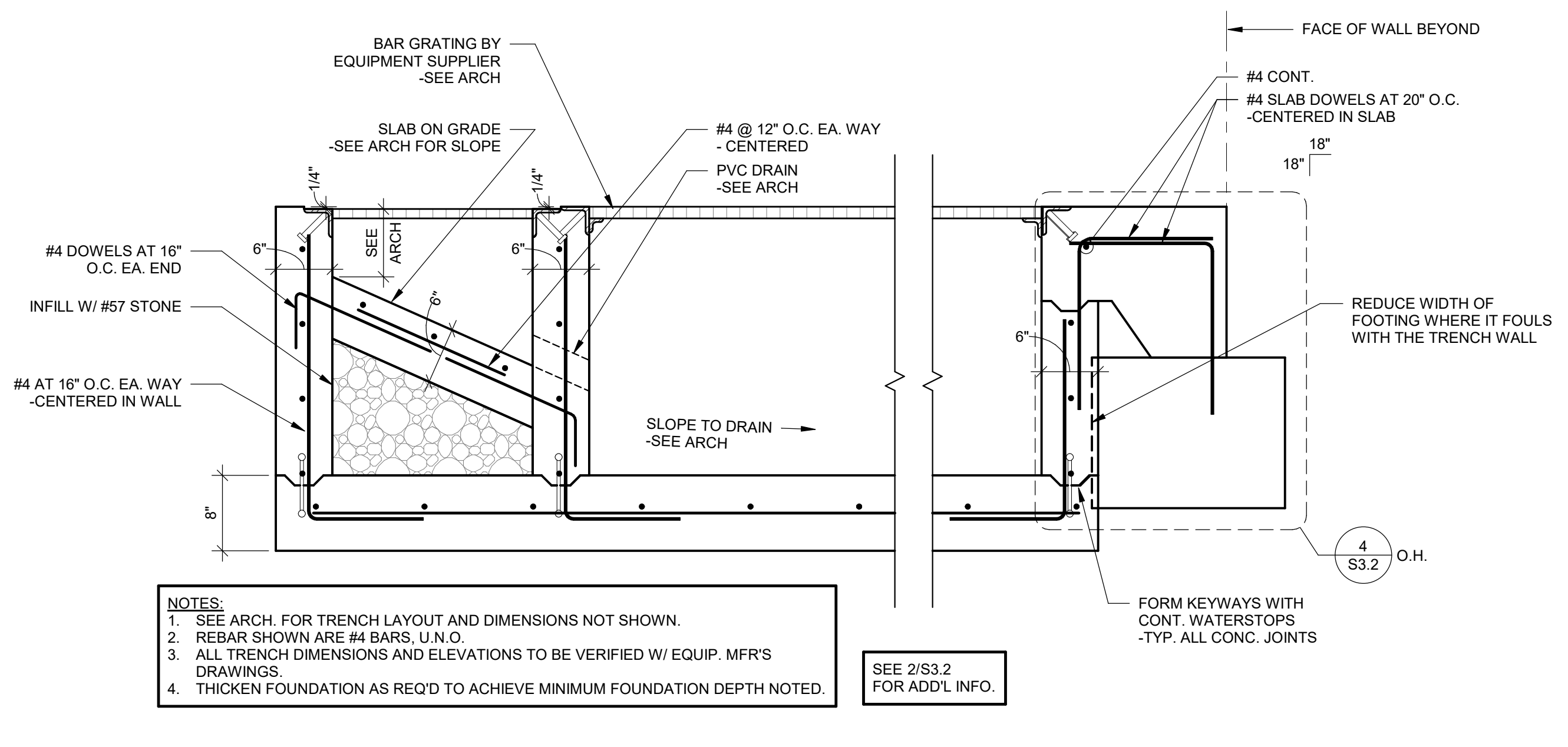
DRAWING TITLE:  
**FOUNDATION SECTIONS & DETAILS**

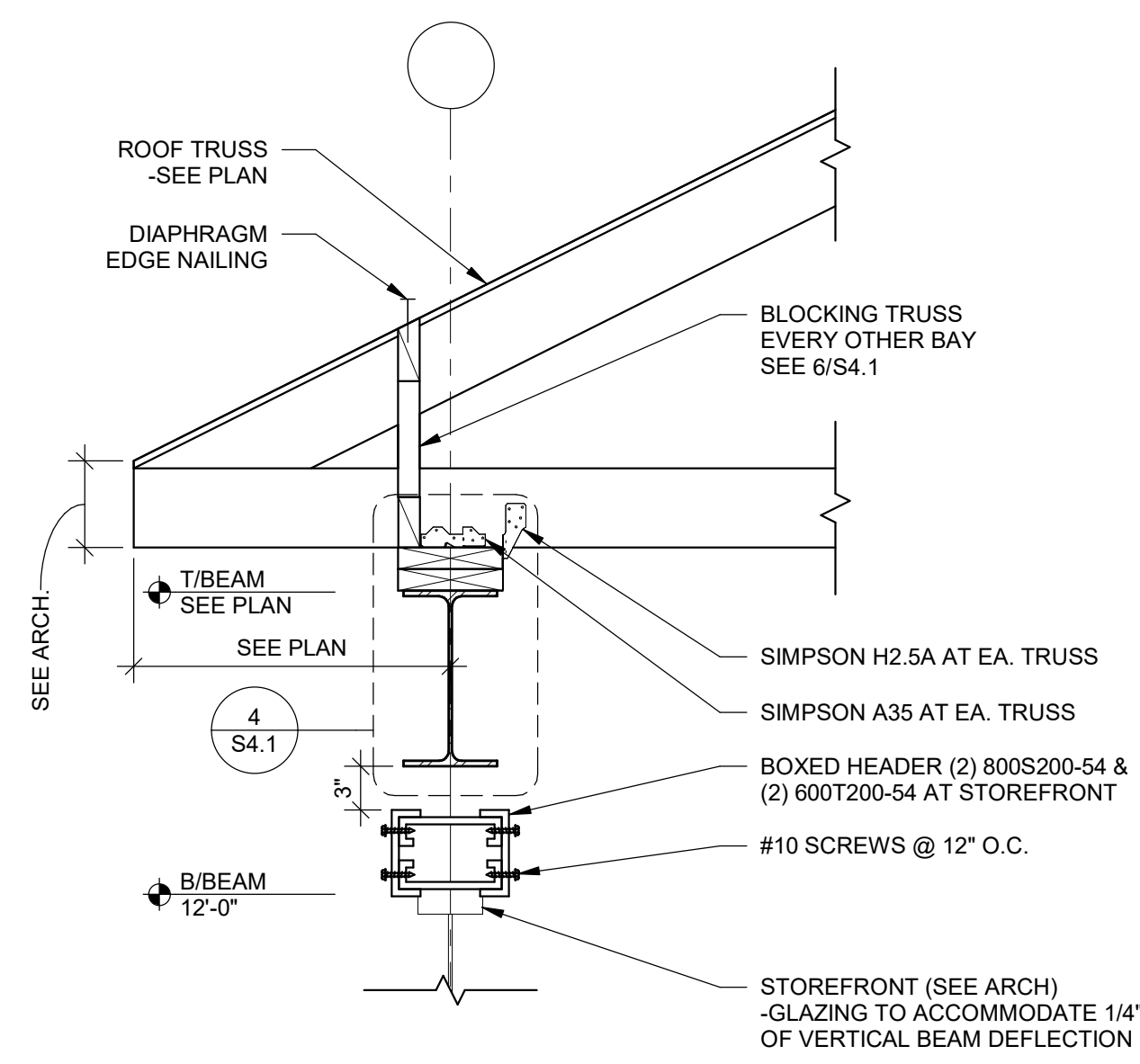
REVISIONS:

NO.	DESCRIPTION	DATE

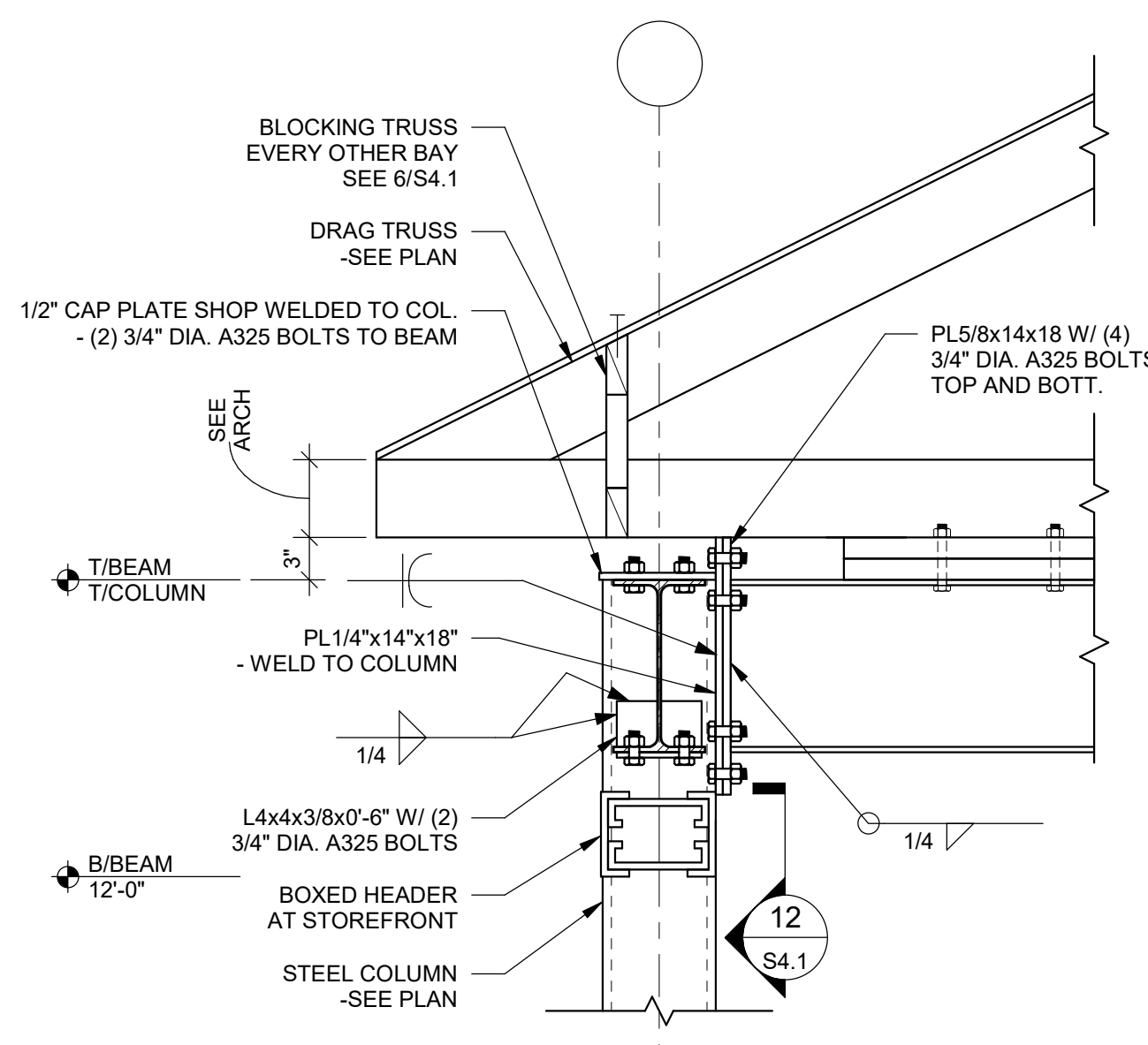
THIS DRAWING IS THE PROPERTY OF THE ENGINEER AND MAY NOT BE REPRODUCED OR USED WITHOUT THEIR WRITTEN PERMISSION.  
2022 © COPYRIGHT  
WILLETT ENGINEERING

PROJECT NUMBER: 223518  
DATE: 12/29/2023  
DRAWN BY: KAG  
CHECKED BY: BJH  
SHEET NO:

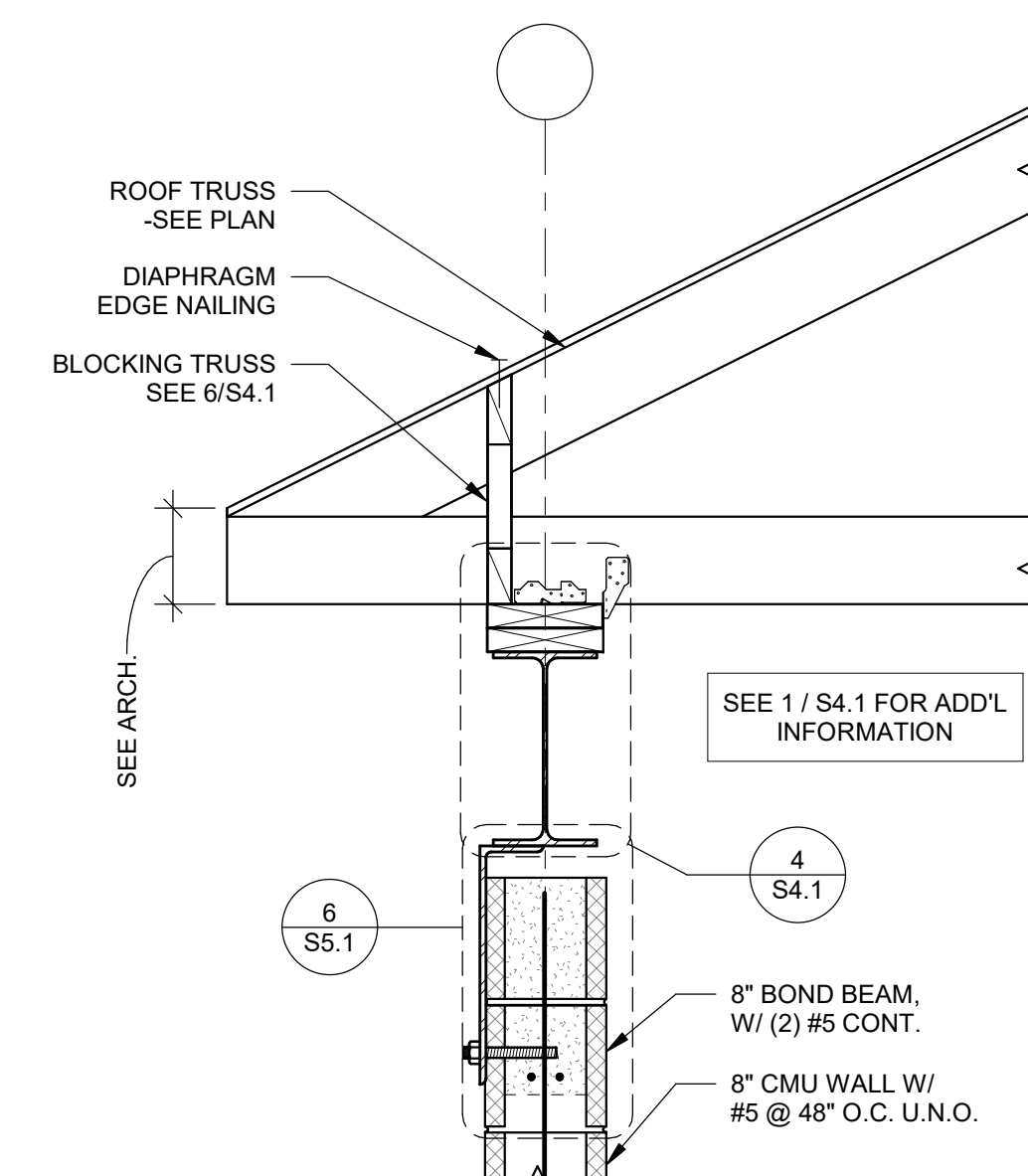




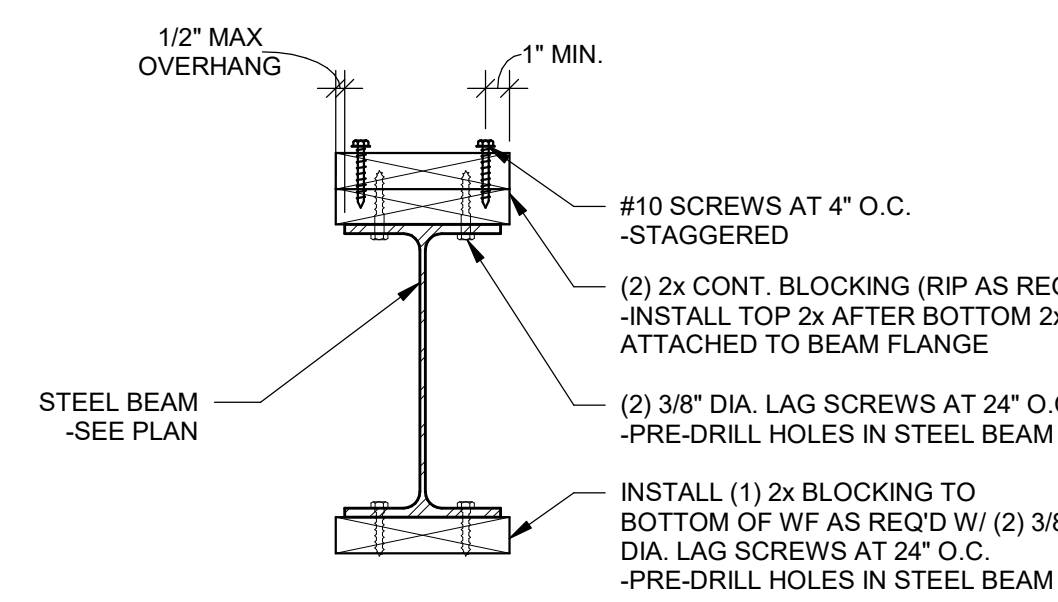
**1 EAVE DETAIL AT STEEL BEAM**  
SCALE: 1" = 1'-0"



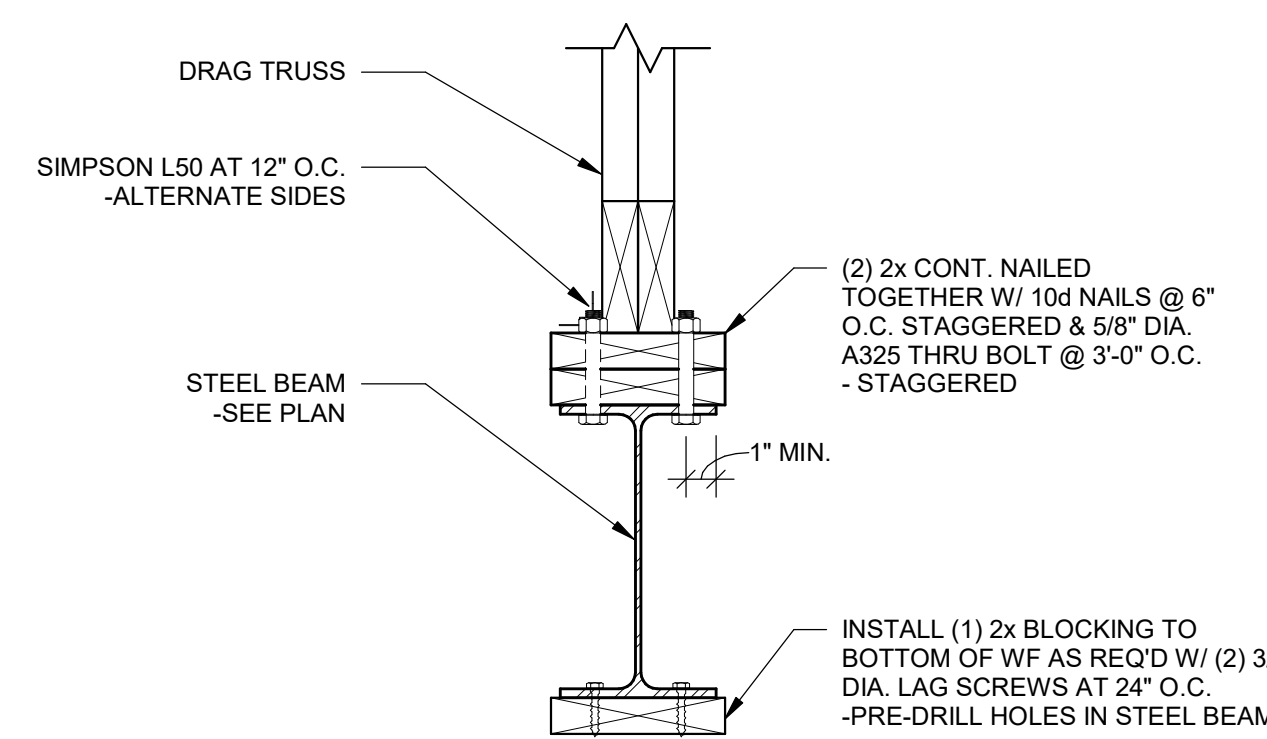
**2 EAVE DETAIL AT COLUMN**  
SCALE: 1" = 1'-0"



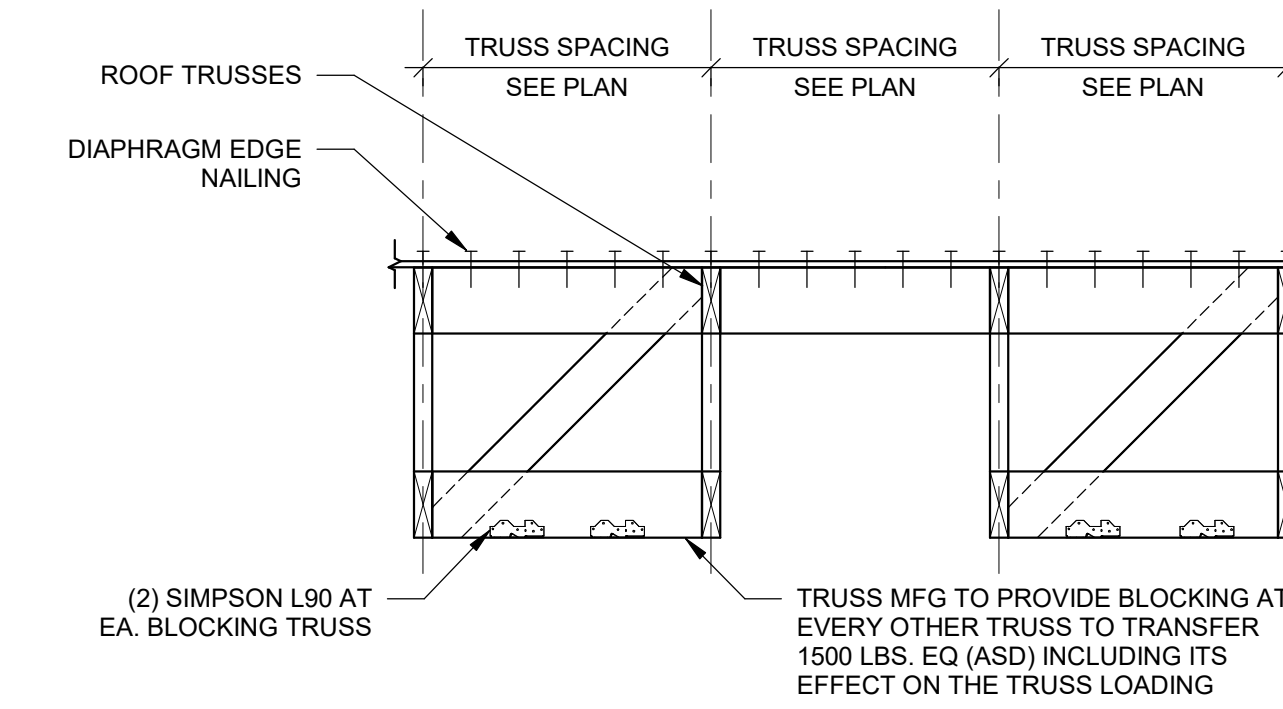
**3 EAVE DETAIL AT MASONRY**  
SCALE: 1" = 1'-0"



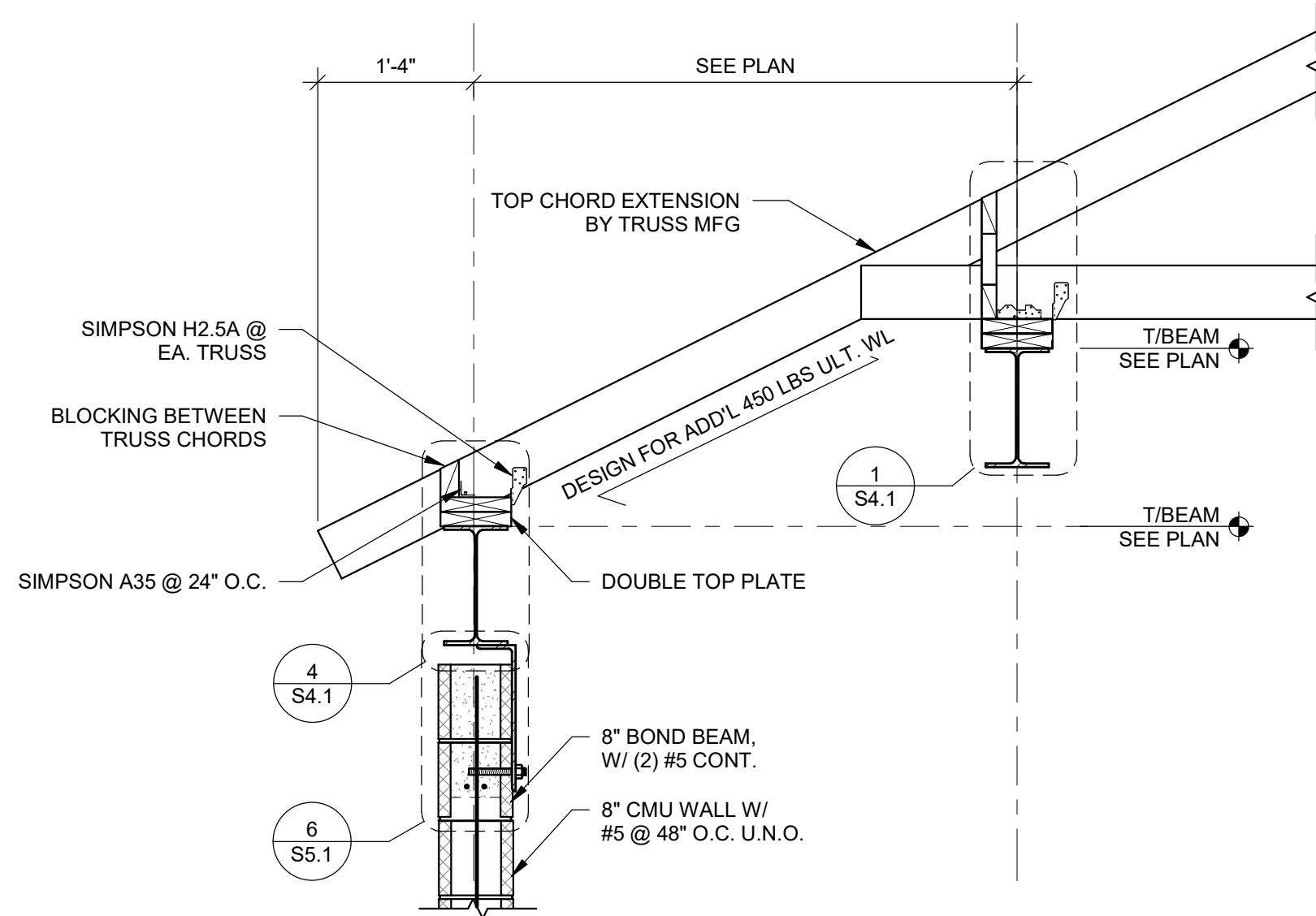
**4 TYP. BLOCKING TO STEEL BEAM**  
SCALE: 1 1/2" = 1'-0"



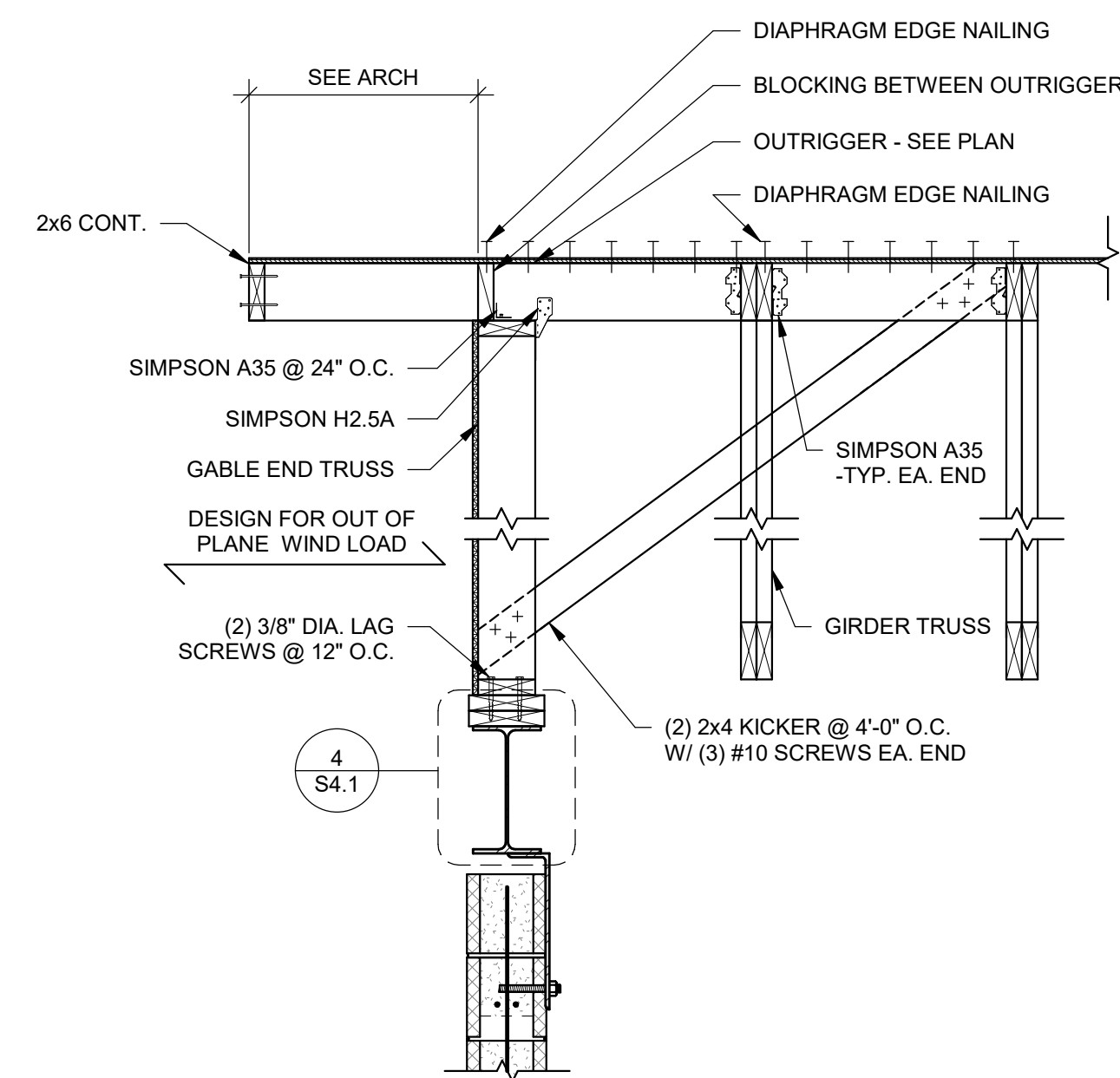
**5 BEAM AT DRAG TRUSS**  
SCALE: 1 1/2" = 1'-0"



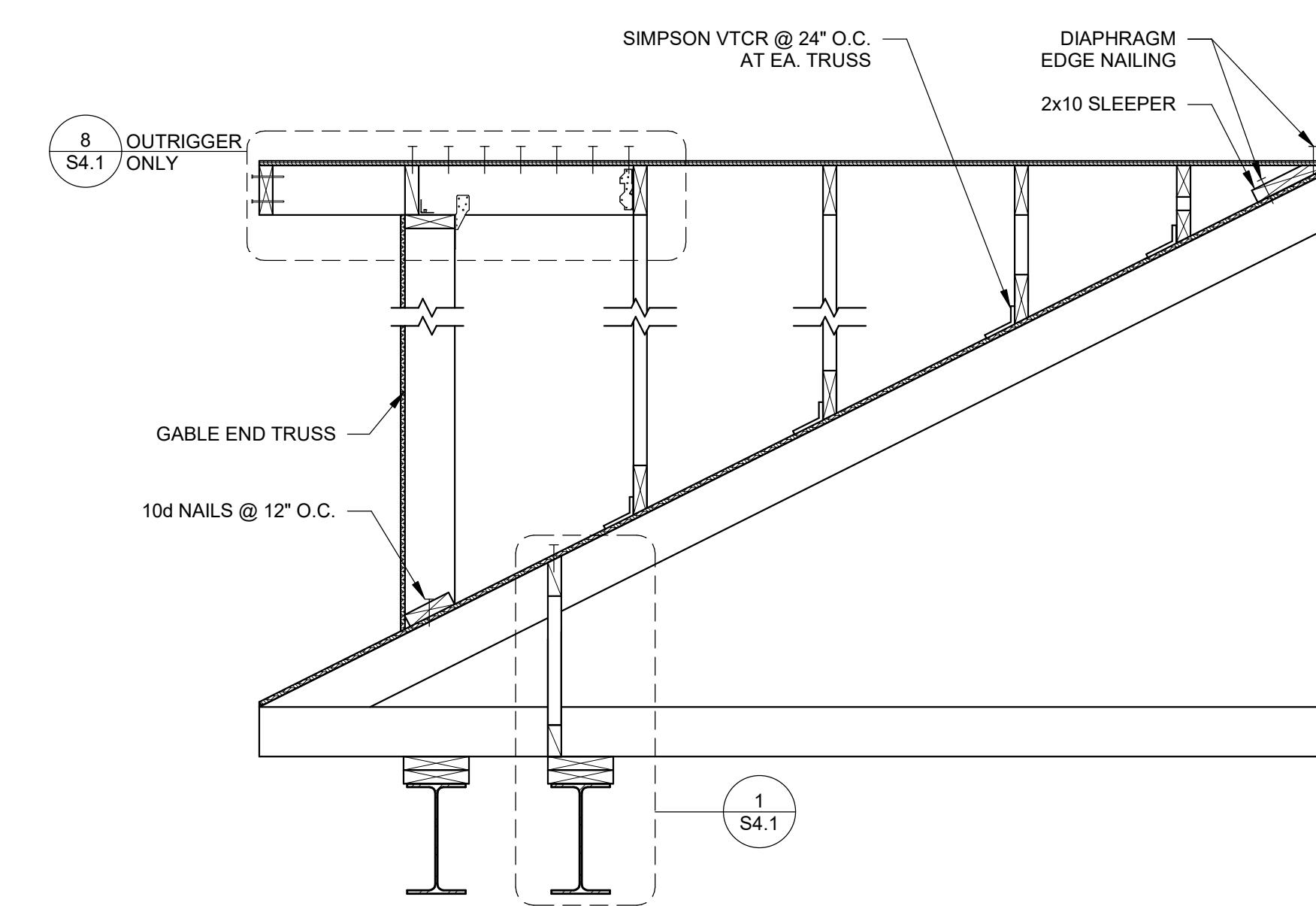
**6 BLOCKING TRUSS DETAIL**  
SCALE: 3/4" = 1'-0"



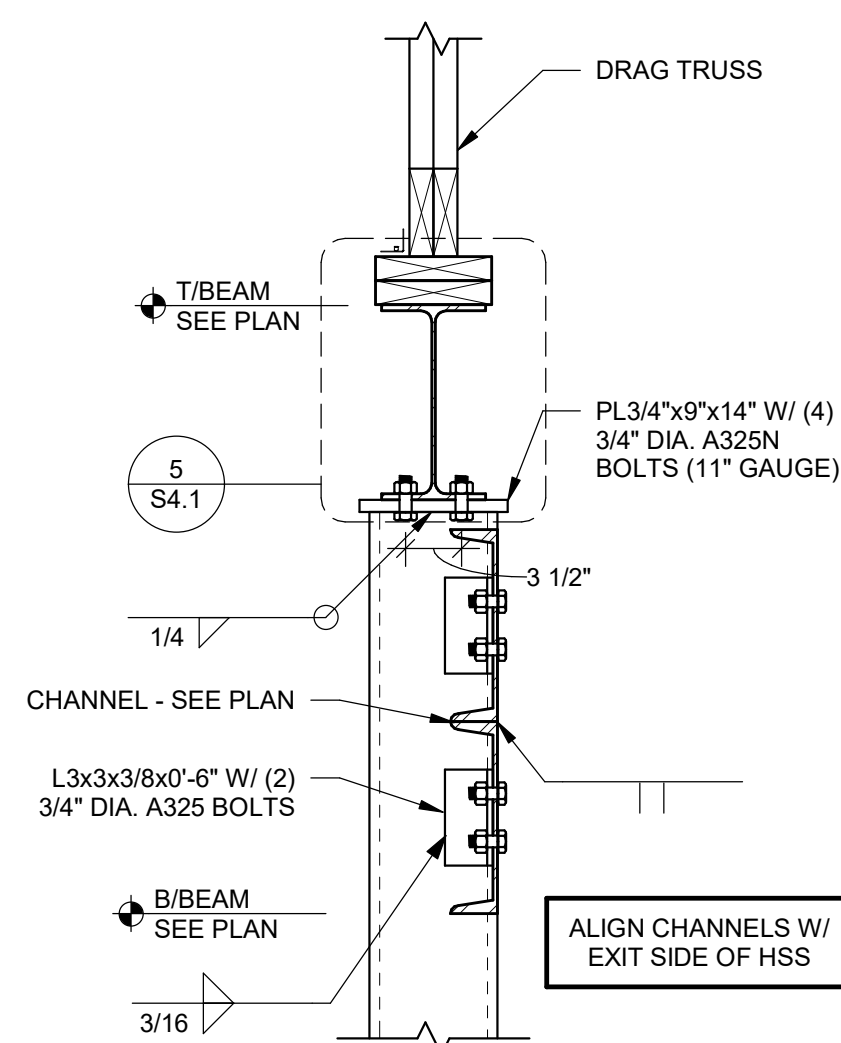
**7 EAVE DETAIL AT OPERATOR STAND**  
SCALE: 3/4" = 1'-0"



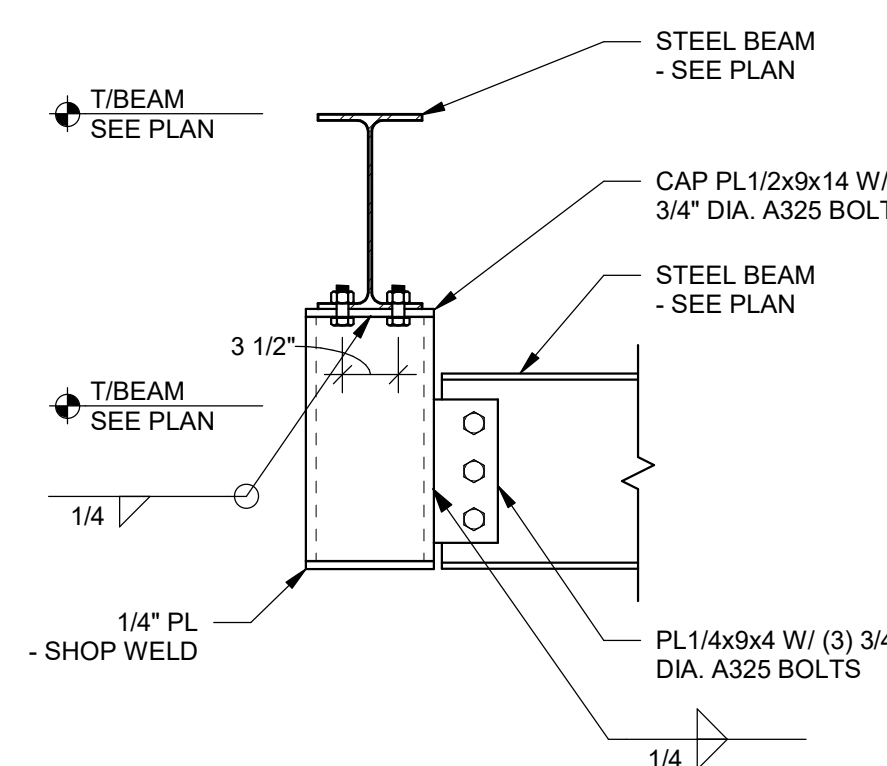
**8 OUTRIGGER DETAIL**  
SCALE: 3/4" = 1'-0"



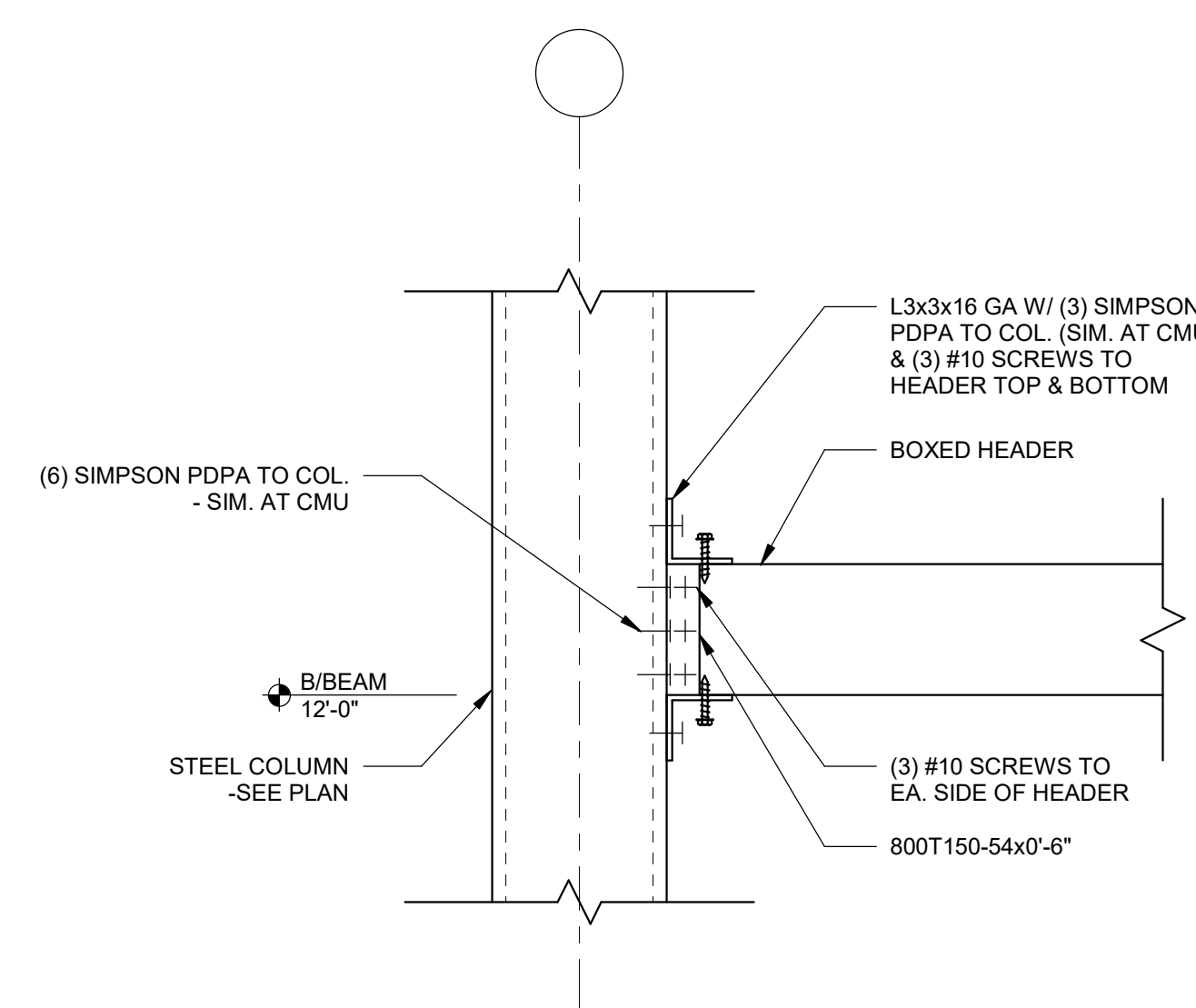
**9 OVERBUILT GABLE END**  
SCALE: 3/4" = 1'-0"



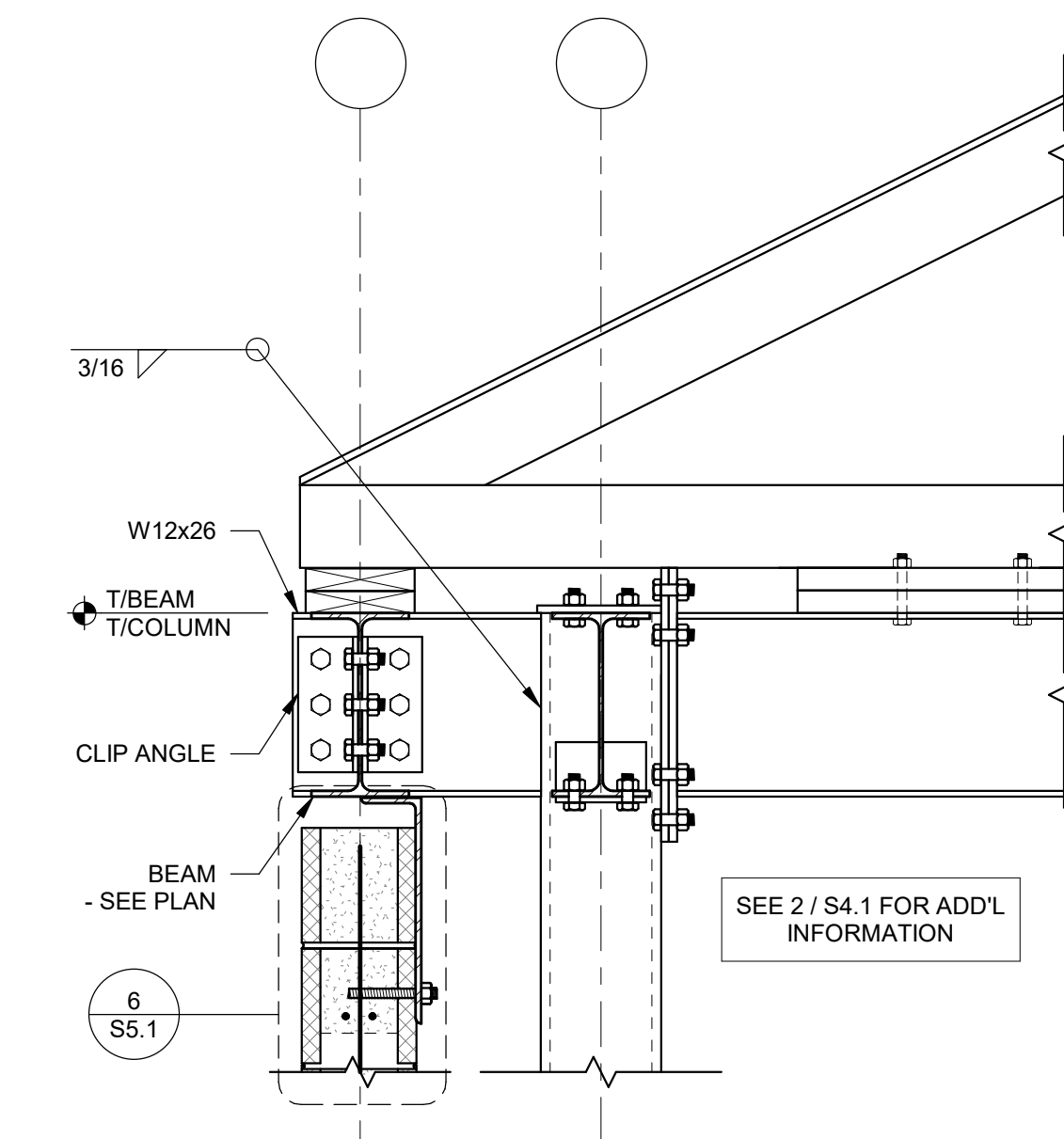
**10 INTERIOR COL AT BEAM**  
SCALE: 1" = 1'-0"



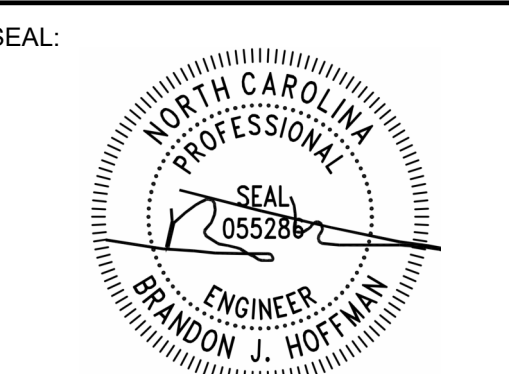
**11 SECTION**  
SCALE: 1" = 1'-0"



**12 BOXED HEADER AT COLUMN**  
SCALE: 1 1/2" = 1'-0"



**13 SECTION**  
SCALE: 1" = 1'-0"



DRAWING TITLE:  
**FRAMING SECTIONS & DETAILS**

NO.	DESCRIPTION	DATE

THIS DRAWING IS THE PROPERTY OF THE ENGINEER AND MAY NOT BE REPRODUCED OR USED WITHOUT THEIR WRITTEN PERMISSION.  
2022 © COPYRIGHT  
**WILLETT ENGINEERING**  
PROJECT NUMBER: 223518  
DATE: 12/29/2023  
DRAWN BY: KAG  
CHECKED BY: BJH  
SHEET NO:

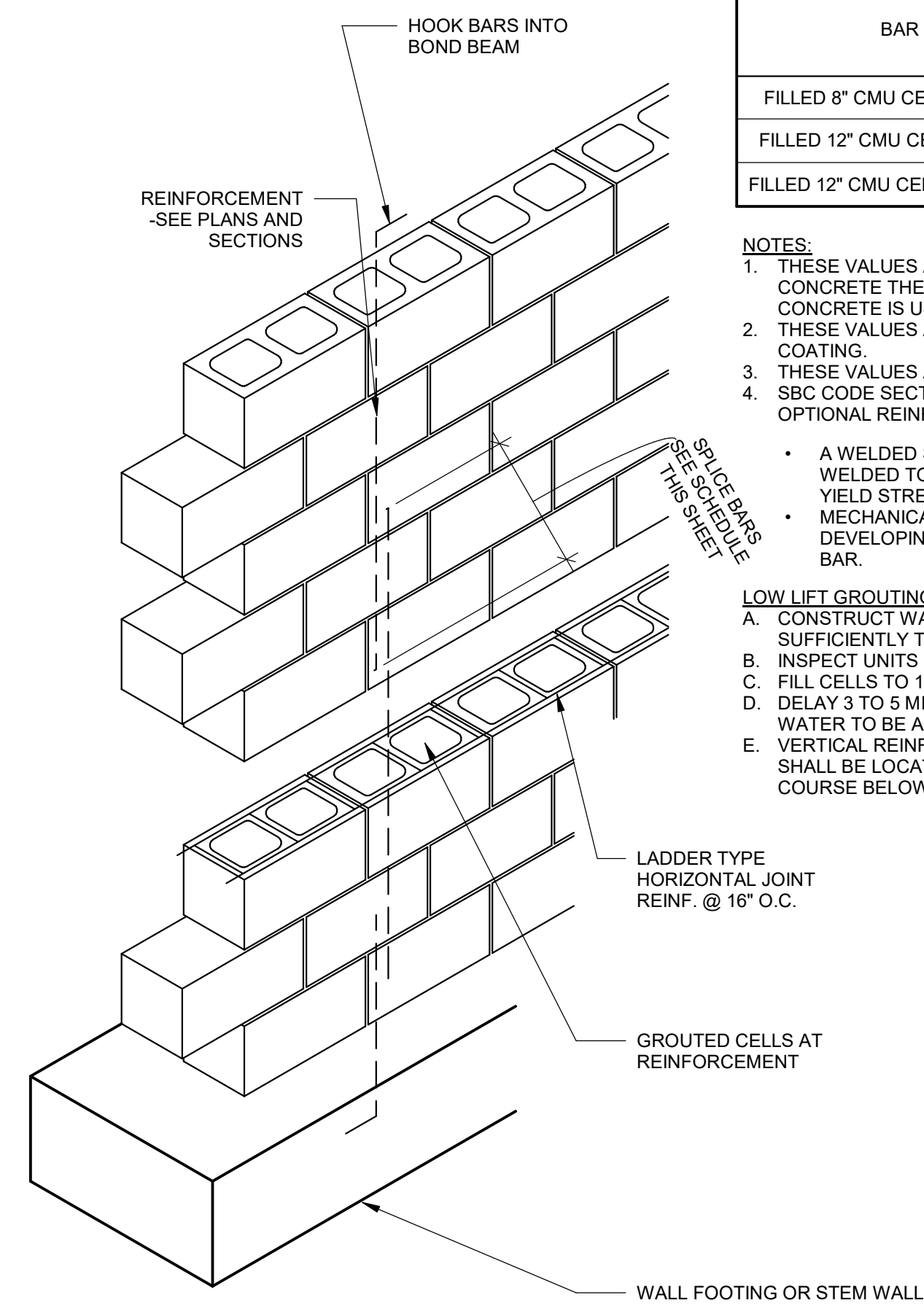
REVISIONS:

NO.	DESCRIPTION	DATE

**MINIMUM REINFORCING LAP LENGTH SCHEDULE (SD)**

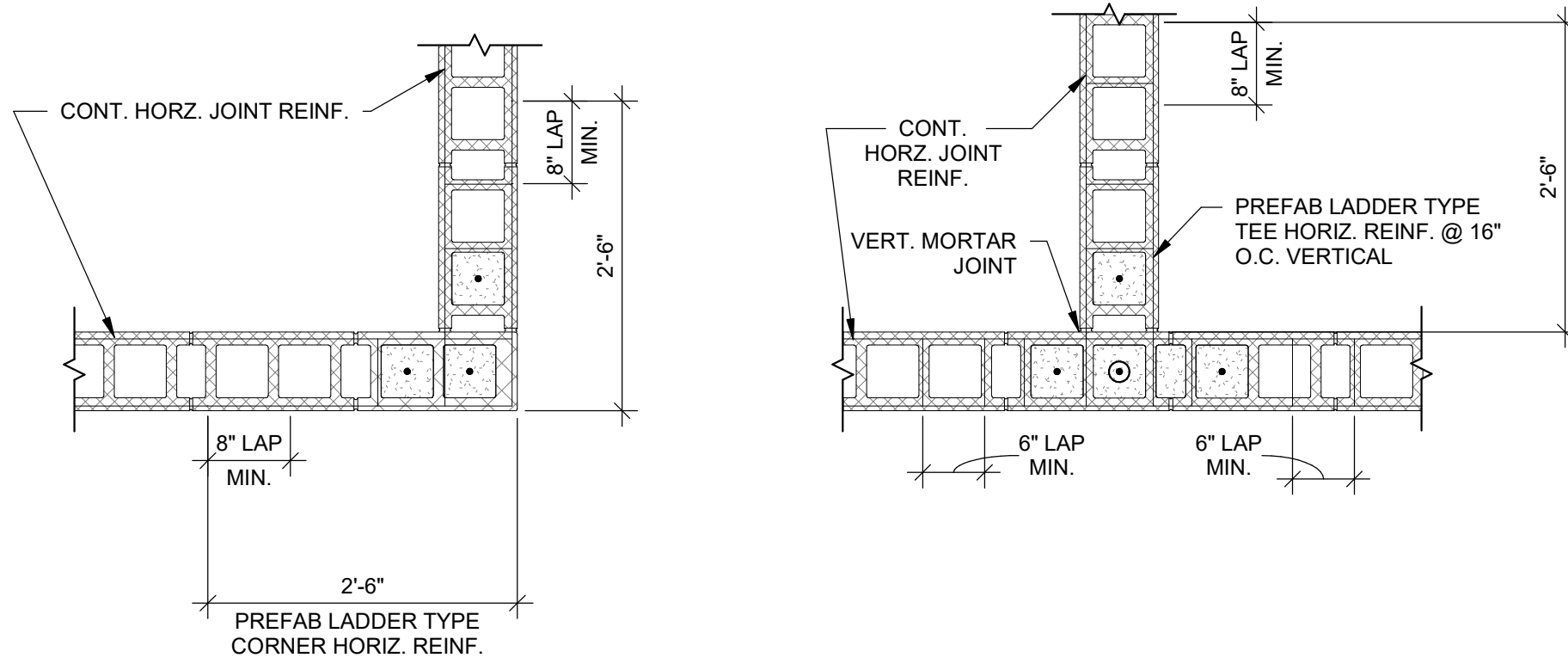
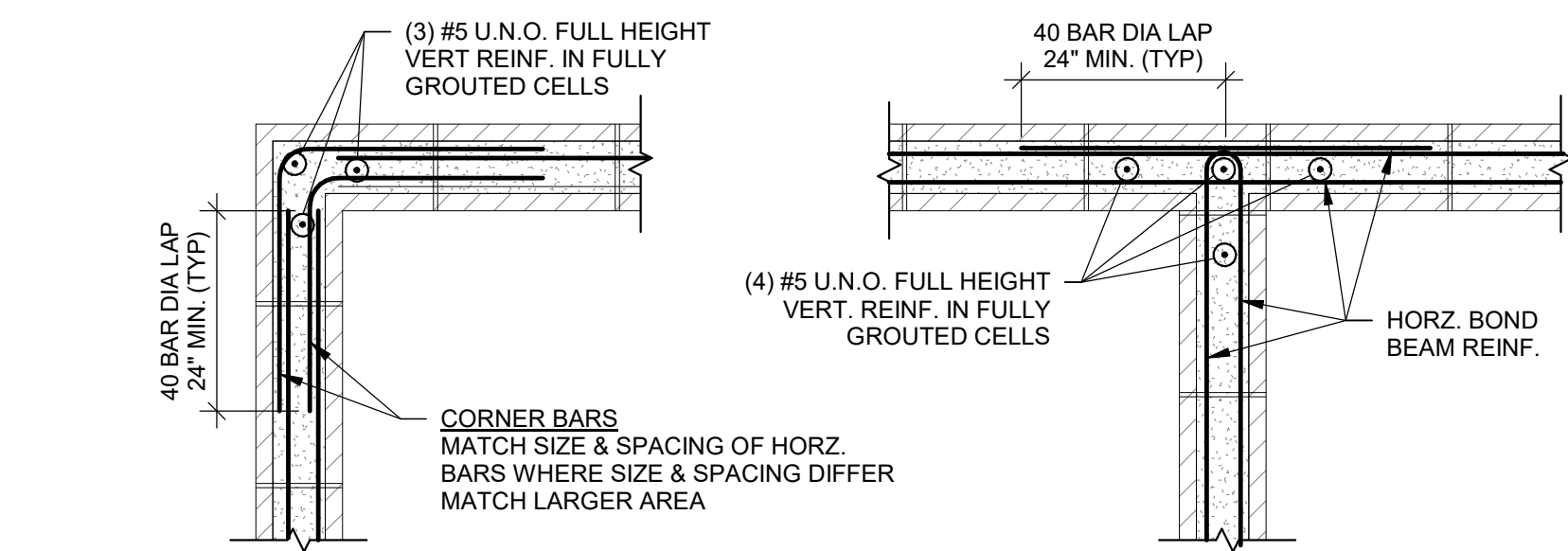
BAR TYPE	BAR SIZE AND LAP LENGTH			
	#3	#4	#5	#6
FILLED 8" CMU CELLS (SINGLE BAR)	16"	21"	32"	54"
FILLED 12" CMU CELLS (SINGLE BAR)	16"	21"	28"	40"
FILLED 12" CMU CELLS (DOUBLE BARS)	19"	34"	45"	54"

- NOTES:**
- THESE VALUES ARE ADEQUATE FOR REGULAR WEIGHT CONCRETE THEY MAY BE MULTIPLIED BY 1.3 IF LIGHT WEIGHT CONCRETE IS USED.
  - THESE VALUES ARE ADEQUATE FOR BARS WITHOUT EPOXY COATING.
  - THESE VALUES APPLY TO MASONRY W/  $f_m = 1,500$  PSI.
  - SBC CODE SECTION 2108.9.2.11 AND SECTION 12.14.3 ALLOW OPTIONAL REINFORCING SPLICES AS FOLLOWS:
    - A WELDED SPLICE WHEREBY BARS ARE BUTTED AND WELDED TO DEVELOP IN TENSION 125 PERCENT OF THE YIELD STRENGTH OF THE BAR.
    - MECHANICAL CONNECTIONS THAT ARE CAPABLE OF DEVELOPING 125 PERCENT OF THE YIELD STRENGTH OF THE BAR.
- LOW LIFT GROUTING PROCEDURE:**
- CONSTRUCT WALL TO HEIGHT OF 5'-0". ALLOW MORTAR TO SET SUFFICIENTLY TO WITHSTAND GROUT PRESSURE.
  - INSPECT UNITS FOR ALIGNMENT. CLEAN OUT CELLS TO BE FILLED.
  - FILL CELLS TO 1/2" BELOW TOP COURSE.
  - DELAY 3 TO 5 MINUTES PRIOR TO CONSOLIDATING TO ALLOW WATER TO BE ABSORBED BY MASONRY.
  - VERTICAL REINFORCING PRE-MANUFACTURED REBAR POSITIONER SHALL BE LOCATED AT THE TOP OF THE FIRST COURSE AT THE COURSE BELOW THE TOP OF THE WALL AND 4'-0" O.C. (MAX.)



**TYPICAL DETAIL OF LOW-LIFT REINFORCED MASONRY CONSTRUCTION**

1  
S5.1  
SCALE: 3/4" = 1'-0"



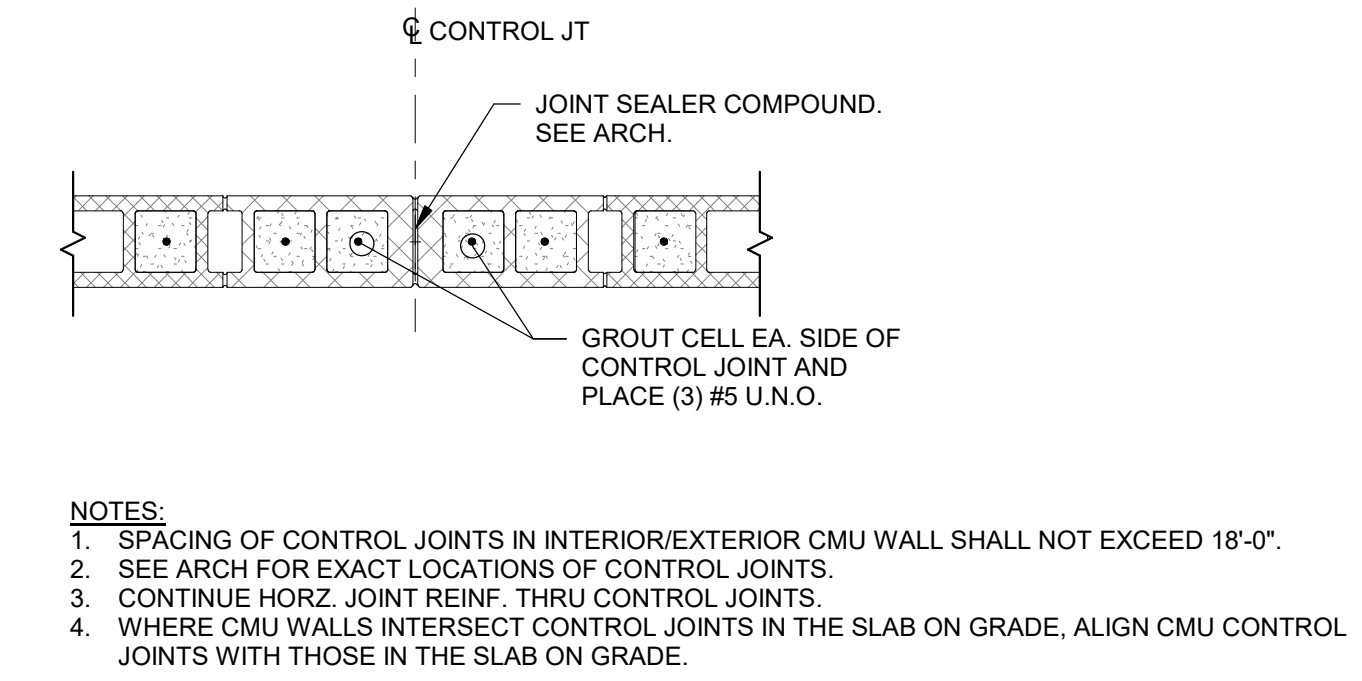
**@ CORNER**

**@ TEE INTERSECTION**

**NOTE:**  
1. CORNER/TEE INTERSECTION REINF. SHALL BE LAPPED WITH THE TYPICAL LADDER TYPE HORIZ. REINF. AND EXTEND A MINIMUM OF 30" IN EACH DIRECTION AT THE INTERSECTION.

**TYPICAL CMU WALL CORNERS AND INTERSECTIONS**

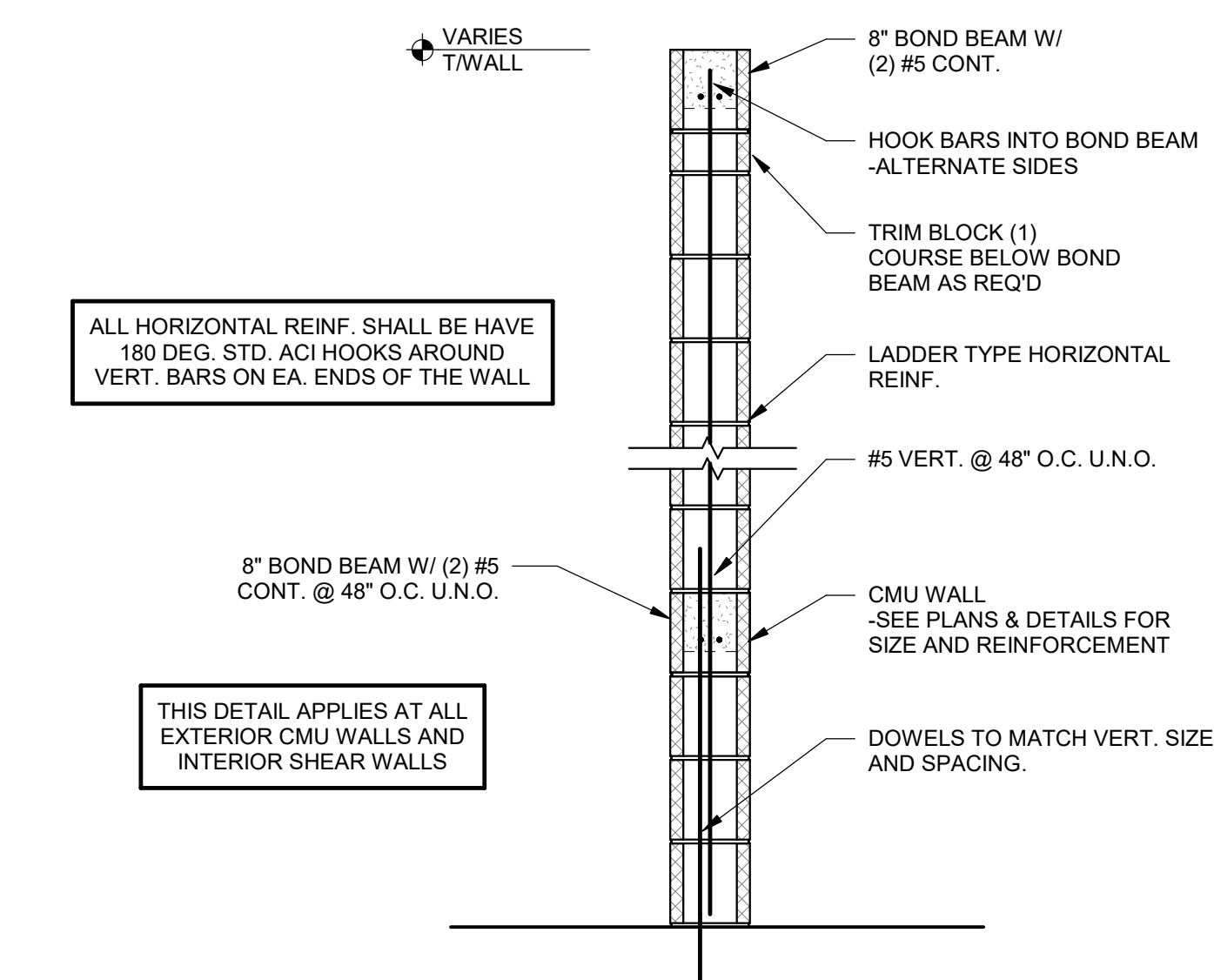
2  
S5.1  
SCALE: 3/4" = 1'-0"



- NOTES:**
- SPACING OF CONTROL JOINTS IN INTERIOR/EXTERIOR CMU WALL SHALL NOT EXCEED 18'-0".
  - SEE ARCH FOR EXACT LOCATIONS OF CONTROL JOINTS.
  - CONTINUE HORIZ. JOINT REINF. THRU CONTROL JOINTS.
  - WHERE CMU WALLS INTERSECT CONTROL JOINTS IN THE SLAB ON GRADE, ALIGN CMU CONTROL JOINTS WITH THOSE IN THE SLAB ON GRADE.

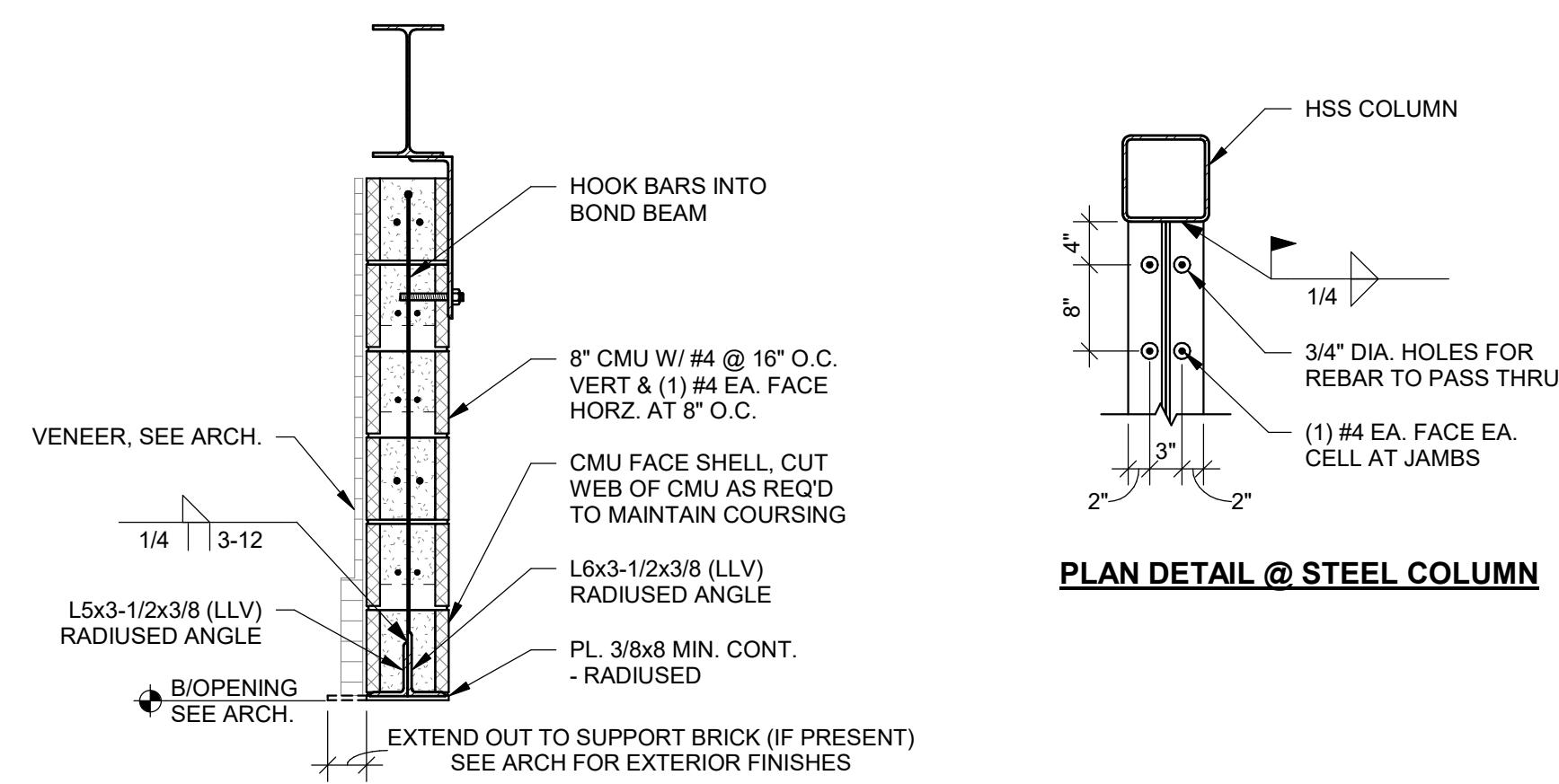
**3 TYPICAL CMU CONTROL JOINTS**

S5.1  
SCALE: 3/4" = 1'-0"



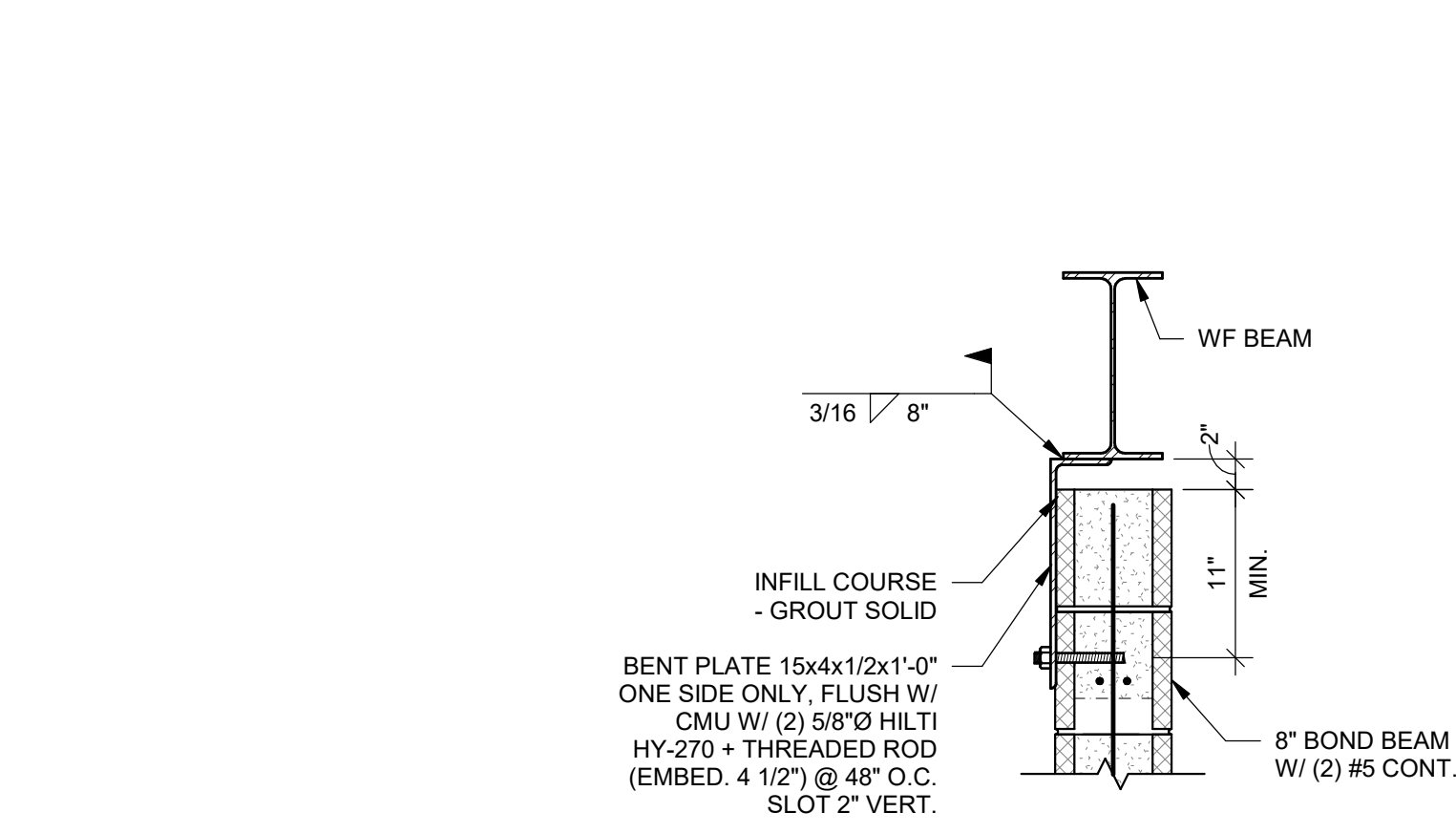
**4 TYP. CMU STRUCTURAL WALLS**

S5.1  
SCALE: 3/4" = 1'-0"



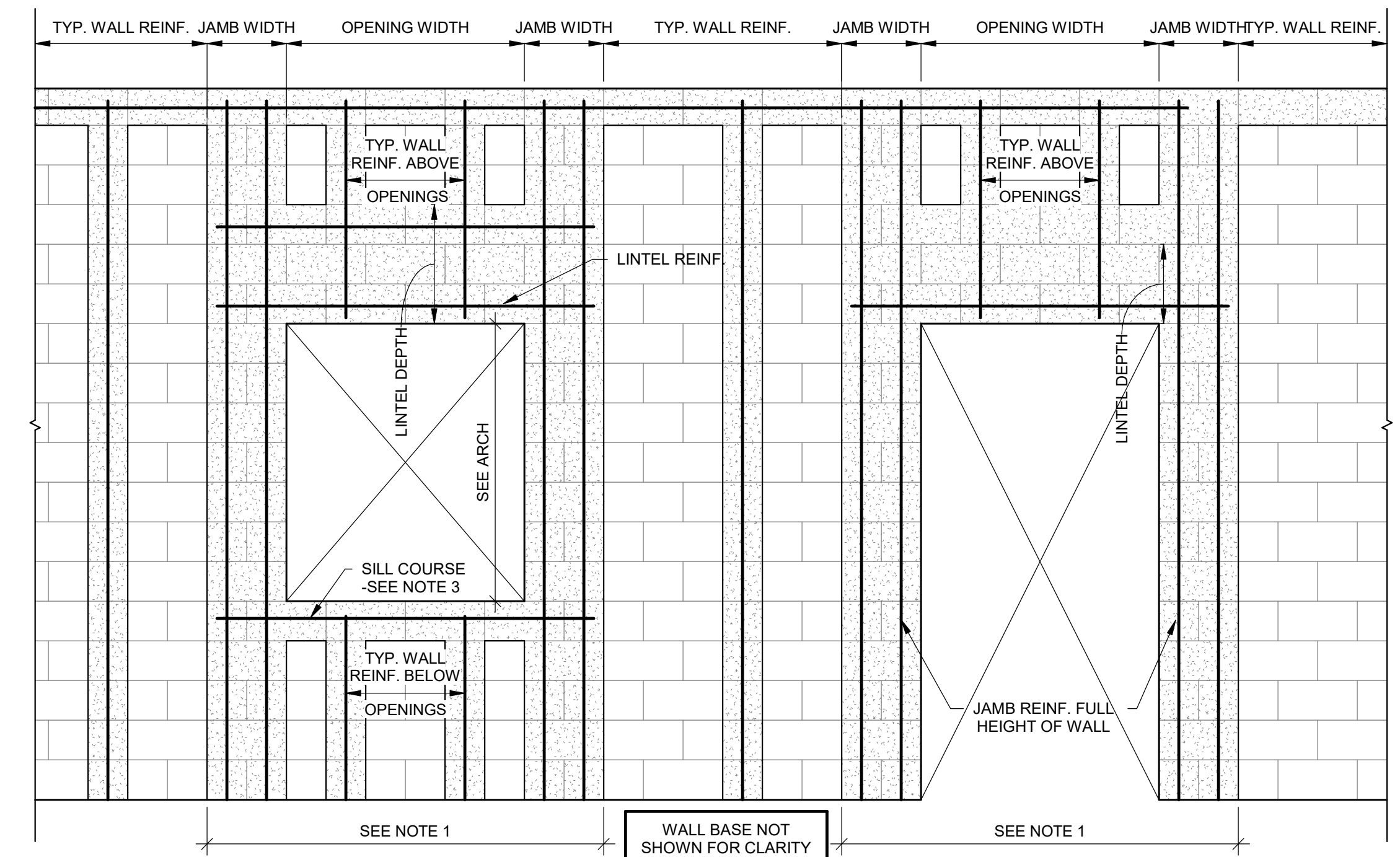
**5 LINTEL FOR ARCH**

5  
S5.1  
SCALE: 3/4" = 1'-0"



**6 CMU WALL BRACING TO WF BEAM**

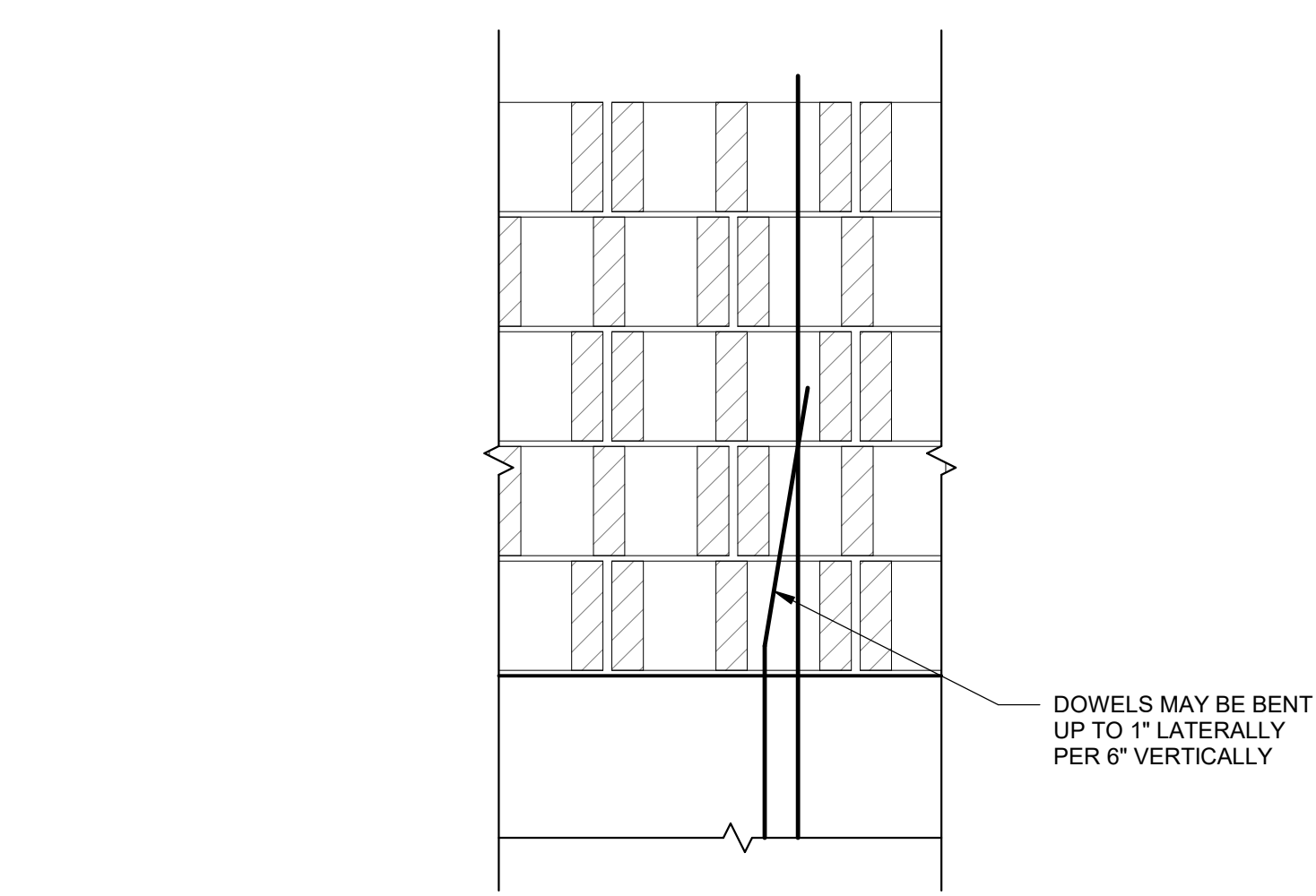
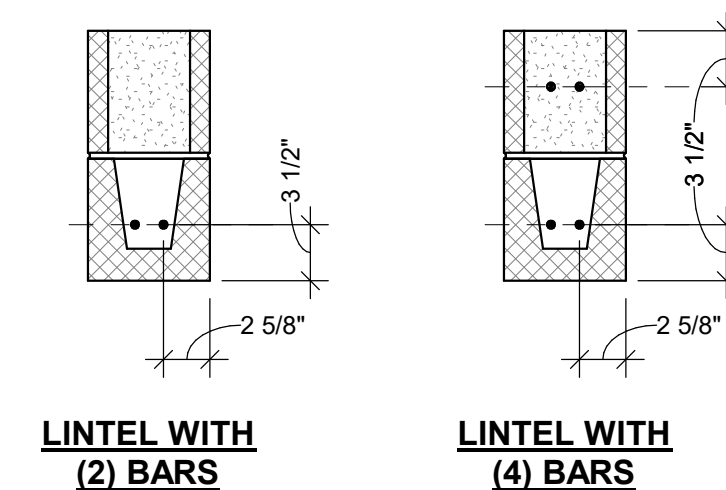
6  
S5.1  
SCALE: 1" = 1'-0"



**SCHEDULE FOR CMU LINTELS IN 8" NON-LOAD BEARING MASONRY WALLS**

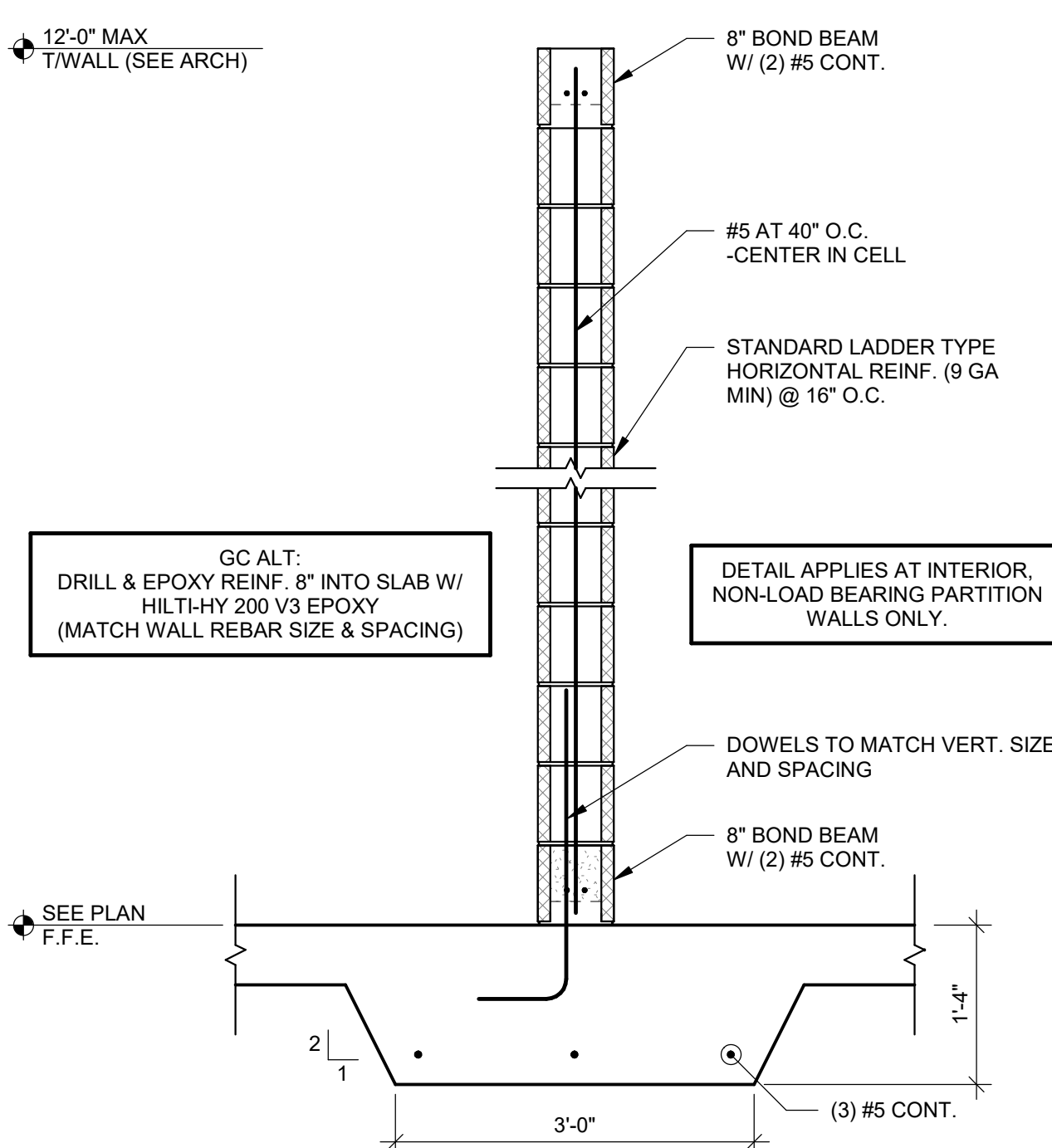
OPENING WIDTH	LINTEL DEPTH	REINFORCING	END BEARING REQ'D	JAMB REINF. REQ'D
UP TO 4'-0"	8"	(2) #5 CONT. BOT.	8"	(2) #5
4'-0" TO 8'-0"	16"	(4) #5 CONT.	8"	(2) #6
OVER 8'-0"	SEE PLAN	SEE PLAN	SEE PLAN	SEE PLAN

- NOTES:**
- MIN. END BEARING REQ'D ALSO IS MINIMUM JAMB WIDTH. IF THERE IS NOT ADEQUATE JAMB WIDTH, USE STEEL LINTEL FOR APPROPRIATE SPAN AND NOTIFY THE STRUCTURAL ENGINEER.
  - HOOK BARS 8" INTO FILLED JAMBS.
  - LINTELS SHALL BE CONSTRUCTED WITH U-BLOCKS AT THE BOTTOM AND DEPRESSED WEB BLOCKS ABOVE AND SHALL BE FULLY GROUTED.



**PERMISSIBLE BENDING OF FOUNDATION DOWELS**

7  
S5.1  
SCALE: 1" = 1'-0"



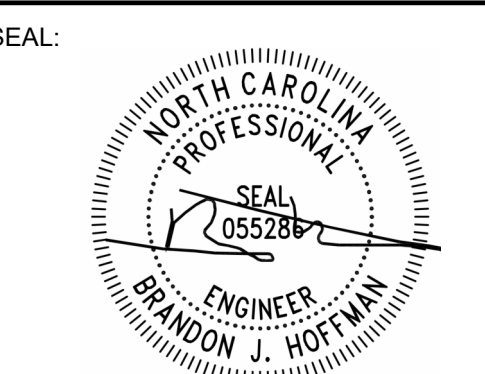
**8 TYP. CMU PARTITION WALLS**

8  
S5.1  
SCALE: 3/4" = 1'-0"

**9 CMU OPENING SCHEDULE**

9  
S5.1  
SCALE: 1" = 1'-0"





DRAWING TITLE:  
**AUXILIARY BUILDINGS**

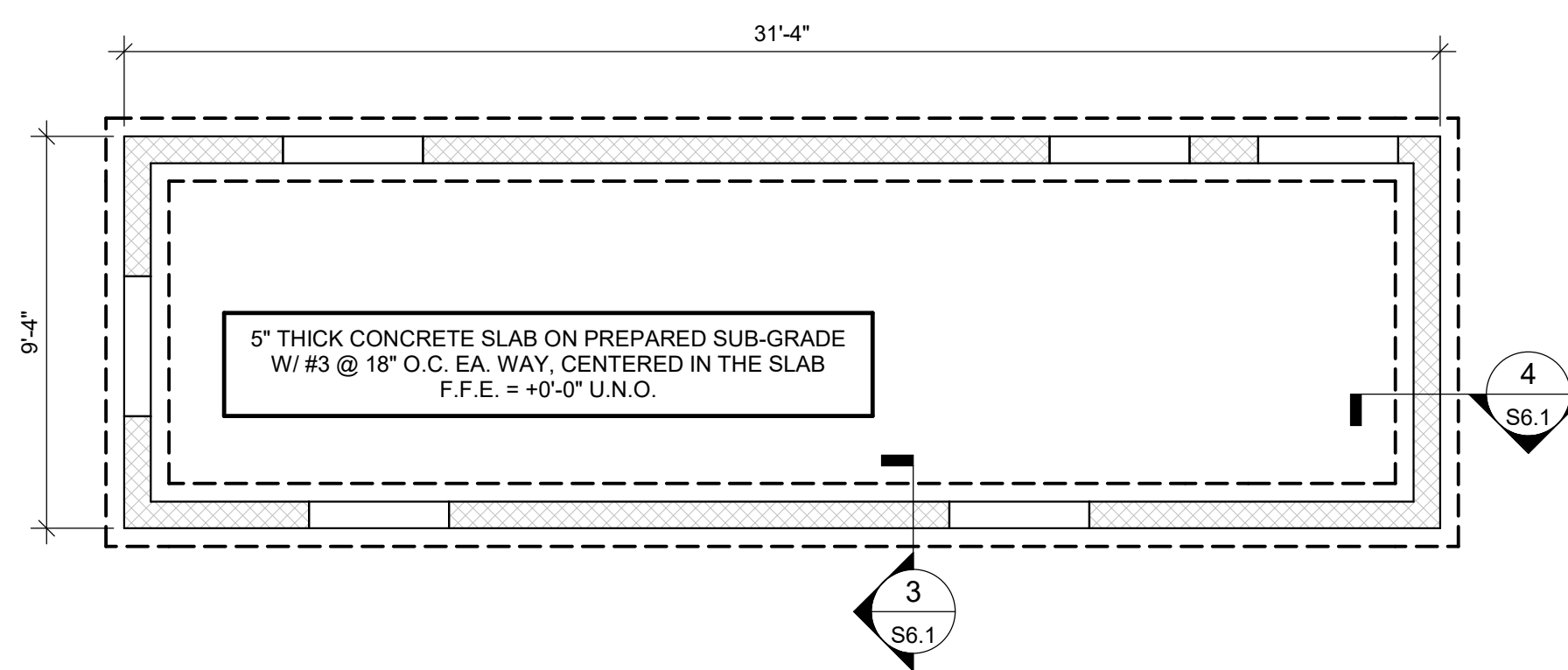
REVISIONS:

NO.	DESCRIPTION	DATE

THIS DRAWING IS THE PROPERTY OF THE ENGINEER AND MAY NOT BE REPRODUCED OR USED WITHOUT THEIR WRITTEN PERMISSION.  
2022 © COPYRIGHT  
**WILLETT ENGINEERING**

PROJECT NUMBER: 223518  
DATE: 12/29/2023  
DRAWN BY: KAG  
CHECKED BY: BJH  
SHEET NO:

**S6.1**

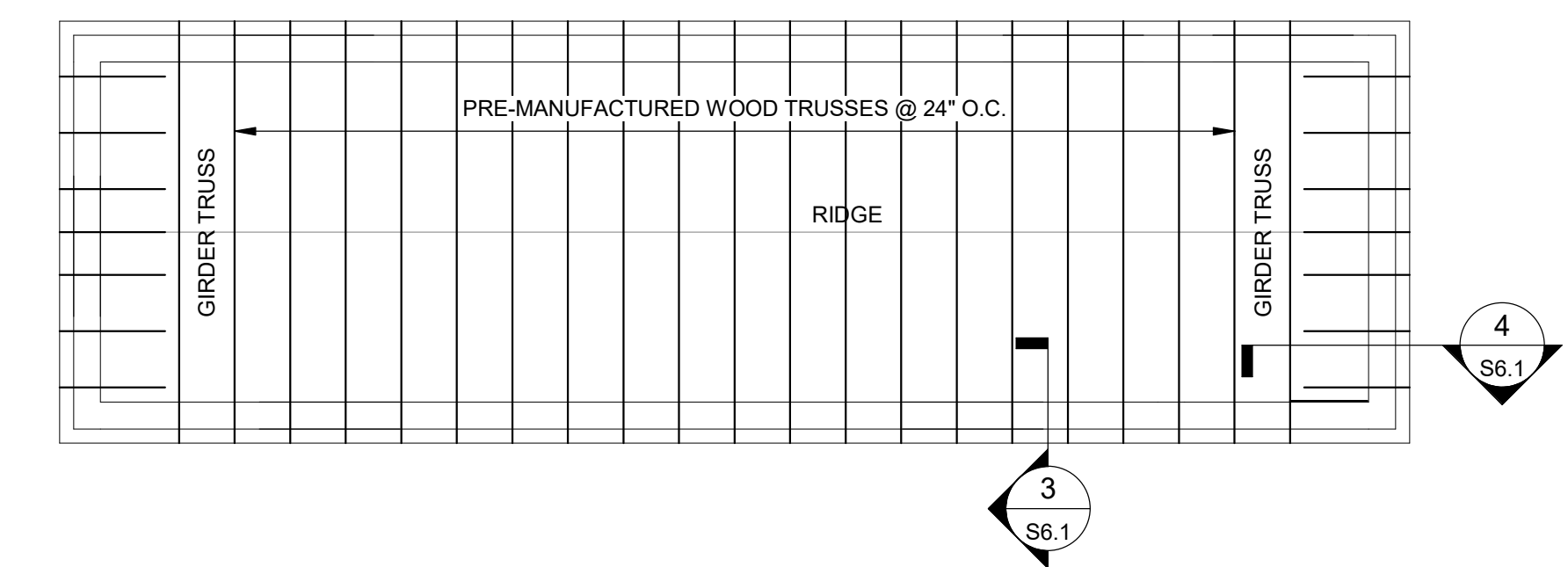


**VENDING/VACUUM FOUNDATION PLAN**

1  
S6.1

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

- AUX BUILDINGS FOUNDATION PLAN NOTES:**
- SEE ARCH. DRAWINGS FOR DIMENSIONS NOT SHOWN.
  - CAST BOLLARDS AND GATE POSTS WITH CONCRETE FOUNDATION WALLS. SEE ARCHITECTURAL DRAWINGS FOR BOLLARD AND GATE POSTS FOUNDATIONS.

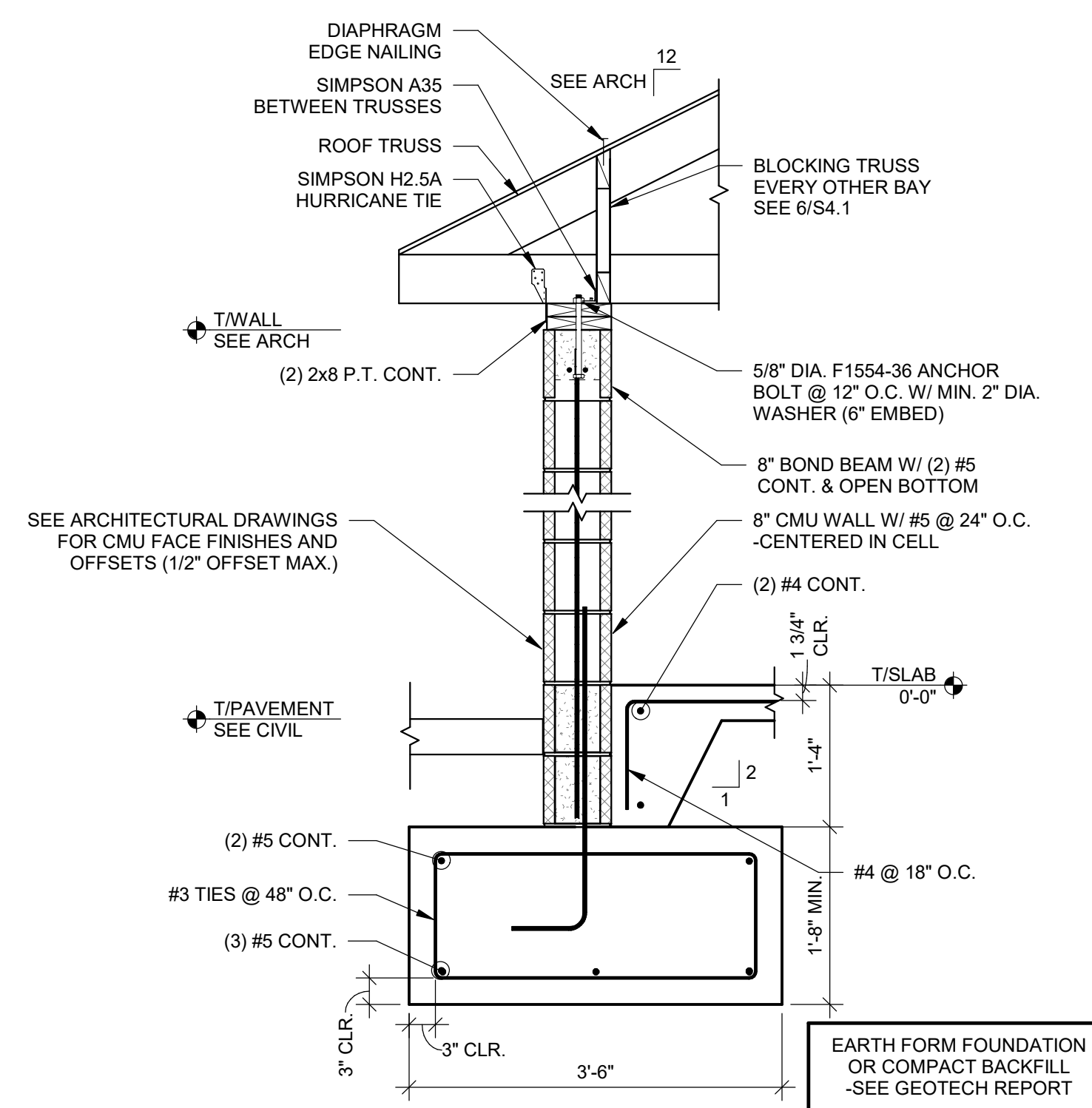


**VENDING/VACUUM ROOF FRAMING PLAN**

2  
S6.1

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

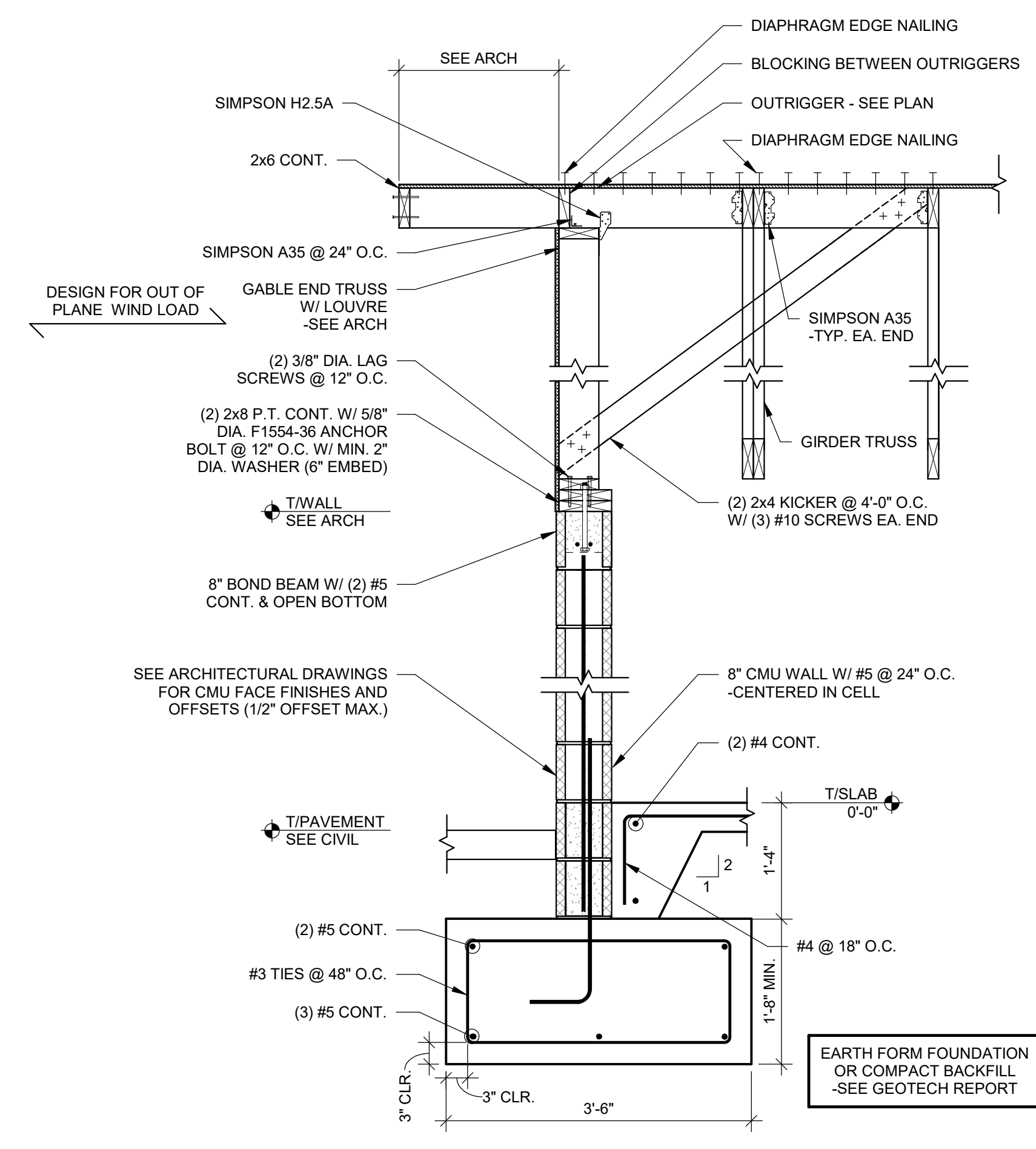
- AUX BUILDINGS ROOF FRAMING PLAN NOTES:**
- INDICATES SPAN OF 5/8" PLYWOOD ROOF DECK UNDER 26 GAUGE METAL PANELS. SEE NOTES & DETAILS FOR NAILING.
  - VERIFY ALL DIMENSIONS, ROOF SLOPES, AND OVERHANGS W/ ARCH. DRAWINGS.
  - TRUSS MANUFACTURER SHALL DESIGN AND PROVIDE ALL BRACING AND UPLIFT BRIDGING.
  - TRUSS MANUFACTURER SHALL DESIGN ALL TRUSSES FOR A MAXIMUM DEFLECTION DUE TO TRANSIENT LOAD OF L/360.
  - ROOF IS NOT DESIGNED TO SUPPORT ANY FUTURE ROOF TOP EQUIPMENT.



**TYP. CMU WALL TYPICAL**

3  
S6.1

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



**CMU WALL AT GABLE**

4  
S6.1

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



COPYRIGHT:  
THESE DESIGNS AND DRAWINGS AS INSTRUMENTS OF  
SERVICE ARE THE PROPERTY OF THE ARCHITECT AND  
SHALL NOT BE COPIED OR REUSED IN ANY FORM  
WITHOUT THE WRITTEN PERMISSION OF THE  
ARCHITECT.  
THESE DRAWINGS SHALL BE USED ONLY ON THE ORIGINAL  
PROJECT LOCATION ONLY AND SHALL NOT BE  
REUSED AT OTHER LOCATIONS.



**NEW TIDAL  
WAVE AUTO SPA**

US 401  
ROLESVILLE,  
NC

OWNER:  
**TIDAL WAVE  
AUTO SPA**  
EAST THOMPSON STREET  
THOMASTON GEORGIA  
30286



MARK	DATE	DESCRIPTION
	12/20/23	PERMIT SET

SHEET TITLE

**SITE POWER  
PLAN**

PROJECT DATE: 12/20/2023  
PROJECT NUMBER: 2023-0208  
DRAWN BY: GMF

**E1.1**

**KEY NOTES**

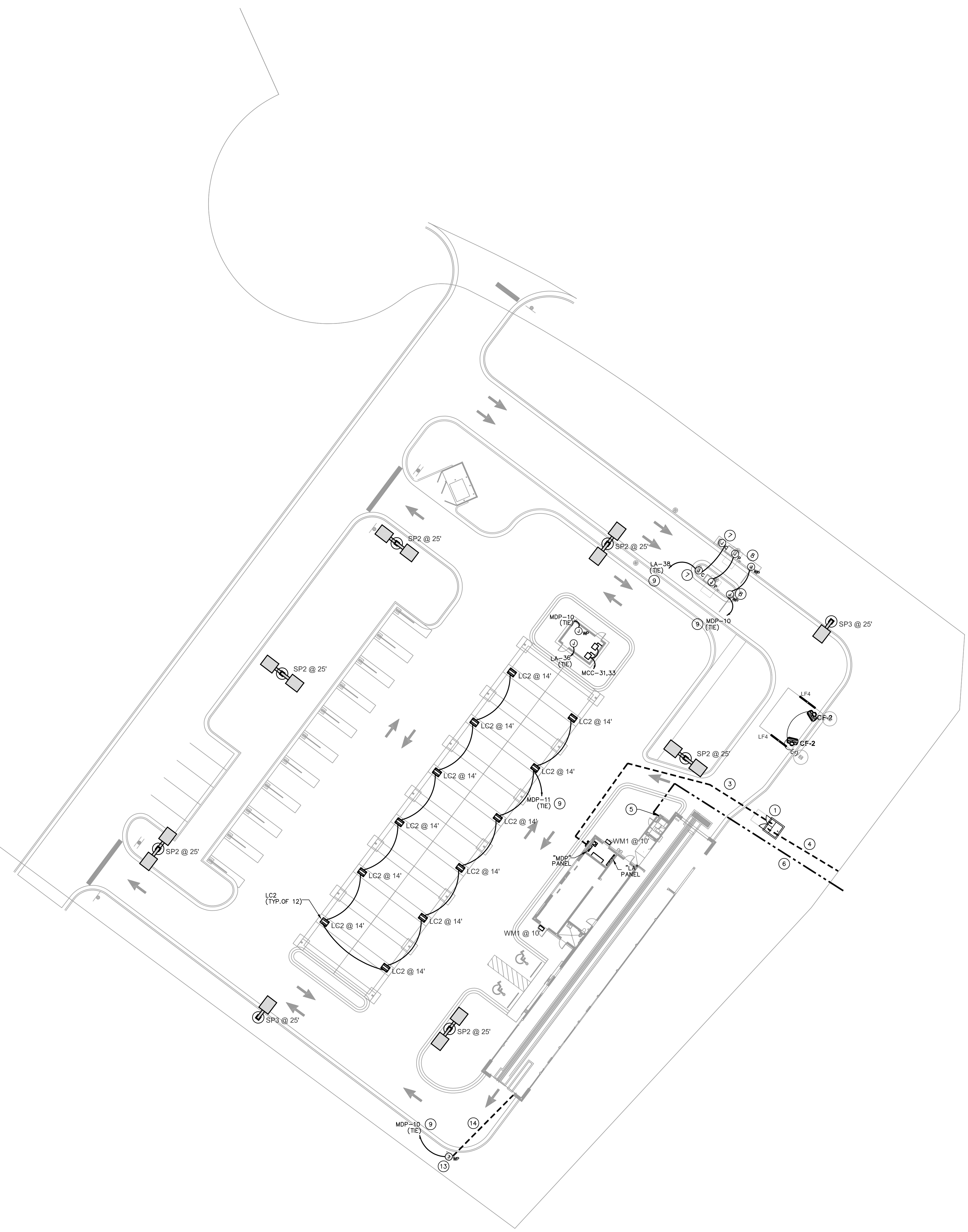
- 1 PROPOSED LOCATION OF PAD MOUNTED UTILITY TRANSFORMER. COORDINATE EXACT LOCATION WITH UTILITY PRIOR TO ROUGH IN.
- 2 PROPOSED LOCATION OF BUILDING METER / SHUNT TRIP BUTTON. REFER TO ELECTRICAL RISER DIAGRAM ON SHEET ES.1 FOR REQUIREMENTS.
- 3 PROPOSED ROUTING OF UNDERGROUND SERVICE LATERAL. COORDINATE EXACT ROUTING AS REQUIRED. REFER TO ELECTRICAL RISER DIAGRAM ON SHEET ES.1 FOR REQUIREMENTS.
- 4 PROPOSED ROUTING OF UNDERGROUND UTILITY PRIMARY. CONTRACTOR TO COORDINATE EXACT LOCATION AND REQUIREMENTS WITH UTILITY PRIOR TO STARTING ANY WORK.
- 5 LOCATION OF COMMUNICATION OUTLET IN OPERATOR'S STATION. REFER TO TELEPHONE DETAIL ON SHEET ES.1 FOR REQUIREMENTS.
- 6 PROPOSED ROUTING OF COMMUNICATION CONDUITS. COORDINATE EXACT ROUTING AS REQUIRED. REFER TO TELEPHONE DETAIL ON SHEET ES.1 FOR REQUIREMENTS.
- 7 PROVIDE ELECTRICAL AND DATA CONNECTION FOR PAY STATION KIOSKS. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH SYSTEM INSTALLER AND CONNECT FOR OPERATION.
- 8 JUNCTION BOX FOR PAY STATION / PREP CANOPY LIGHTING.
- 9 WIRE CIRCUIT THRU TIME CLOCK AND LIGHTING CONTACTOR. REFER TO ELECTRICAL RISER DIAGRAM ON SHEET ES.1 FOR REQUIREMENTS.
- 10 JUNCTION BOX FOR VACUUM ENCLOSURE LIGHTING. PROVIDE MANUAL SWITCH(ES) AT ENCLOSURE ENTRANCE FOR LIGHTING CONTROL.
- 11 JUNCTION BOX FOR VACUUM ENCLOSURE VENDING RECEPTACLE.
- 12 PROVIDE 60 AMP, NEMA 3R ELECTRICAL DISCONNECT FOR VACUUM MOTOR. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH SYSTEM INSTALLER AND CONNECT FOR OPERATION.
- 13 JUNCTION BOX FOR ELECTRICAL CONNECTION TO WAIT & GO LIGHT (30-0). COORDINATE EXACT LOCATION AND REQUIREMENTS WITH CAR WASH VENDOR DRAWINGS PRIOR TO ROUGH IN AND CONNECT FOR OPERATION.
- 14 (2) 3/4" CONDUITS UNDER SLAB FOR WAIT & GO CAMERA AND WAIT & GO LIGHT 120V RELAY. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH CAR WASH VENDOR DRAWINGS PRIOR TO ROUGH IN AND CONNECT FOR OPERATION.

**GENERAL NOTES**

- REFER TO SITE LIGHTING FIXTURE SCHEDULE ON SHEET E1.2 FOR REQUIREMENTS OF FIXTURES.
- REFER TO LIGHTING PLAN ON SHEET E2.1 FOR WALL PACK ELECTRICAL REQUIREMENTS.
- ALL SITE LIGHTING POLES INDICATED ON THIS SHEET WILL BE POWERED, CONTROLLED, AND SERVICED BY THE LOCAL UTILITY COMPANY.

**GENERAL MECHANICAL POWER NOTE**

- 6 REFER TO SHEET ES.1, MECHANICAL EQUIPMENT-ELECTRICAL SCHEDULE, FOR POWER REQUIREMENTS TO ALL MECHANICAL EQUIPMENT INDICATED ON THIS SHEET.



**1 SITE POWER PLAN**  
SCALE: 1" = 20'-0"

RELEASED FOR CONSTRUCTION

THESE DESIGNS AND DRAWINGS AS INSTRUMENTS OF SERVICE ARE THE PROPERTY OF THE ARCHITECT AND SHALL NOT BE COPIED OR REUSED IN ANY FORM WITHOUT THE WRITTEN PERMISSION OF THE ARCHITECT. THESE DRAWINGS SHALL BE USED ONLY ON THE ORIGINAL PROJECT LOCATION ONLY AND SHALL NOT BE REUSED AT OTHER LOCATIONS.



NEW TIDAL WAVE AUTO SPA

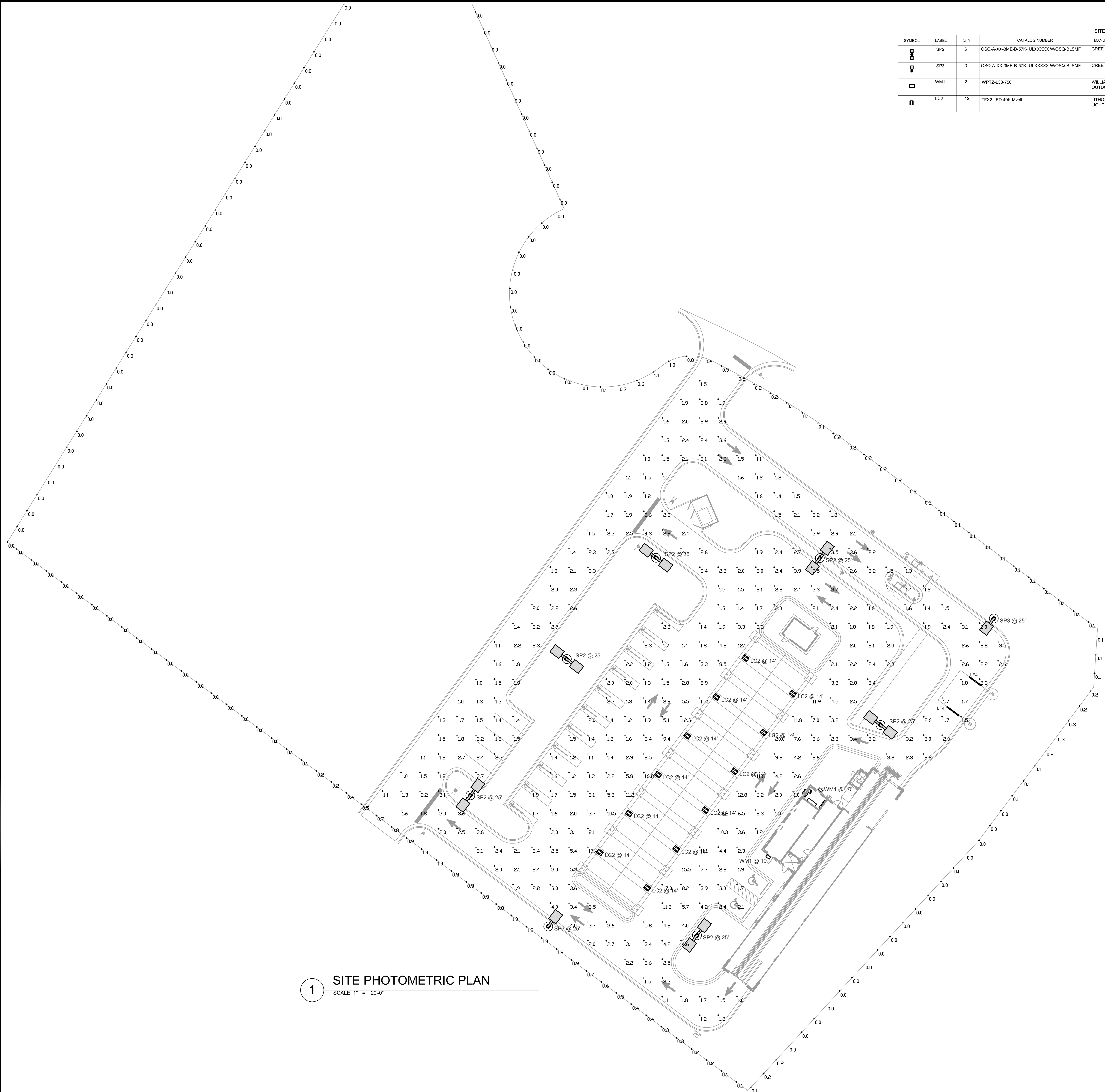
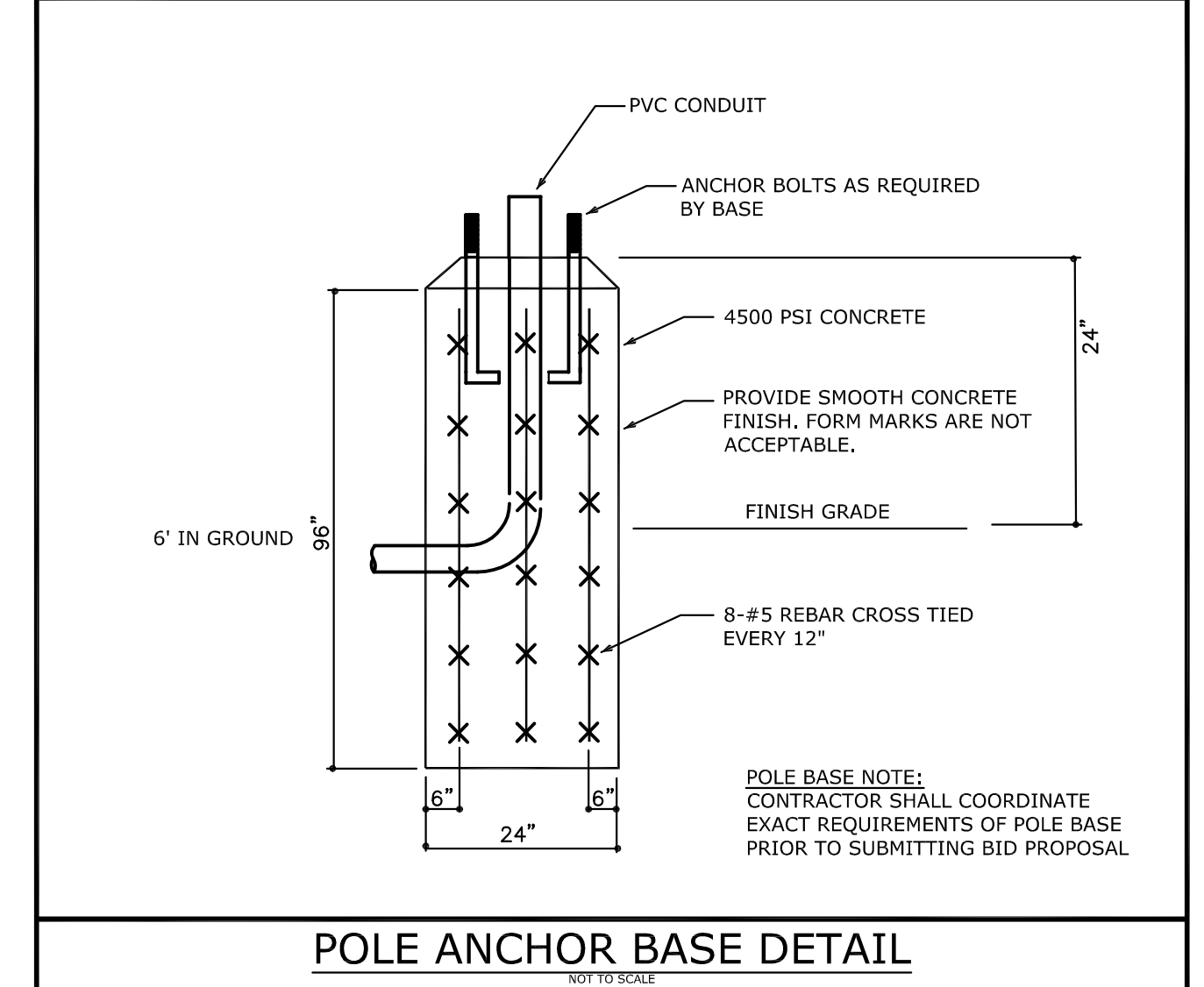
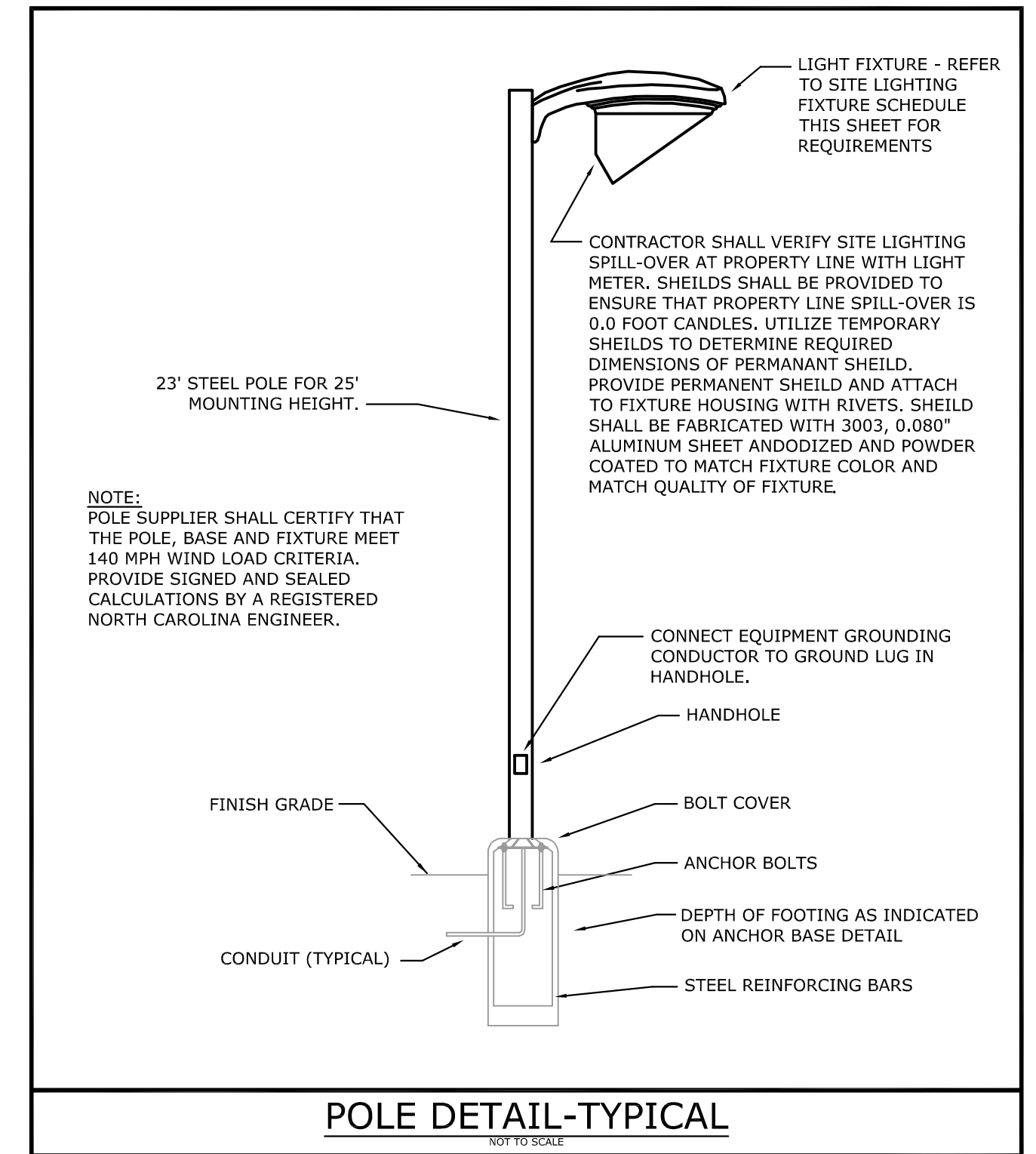
US 401  
ROLESVILLE, NC

OWNER:  
**TIDAL WAVE AUTO SPA**  
EAST THOMPSON STREET  
THOMASTON GEORGIA  
30286



SITE LIGHTING FIXTURE SCHEDULE								
SYMBOL	LABEL	QTY	CATALOG NUMBER	MANUFACTURER	DESCRIPTION	LUMENS PER LAMP	LIGHT LOSS FACTOR	WATTAGE
	SP2	6	OSQ-A-XX-3ME-B-57K-ULXXXXX WOSO-BLSMF	CREE INC	CREE OSQ SERIES AREA LUMINAIRE, TYPE III MEDIUM W/ BACKLIGHT SHIELD, B INPUT POWER DESIGNATOR, 5700K	9196	0.9	172
	SP3	3	OSQ-A-XX-3ME-B-57K-ULXXXXX WOSO-BLSMF	CREE INC	CREE OSQ SERIES AREA LUMINAIRE, TYPE III MEDIUM W/ BACKLIGHT SHIELD, B INPUT POWER DESIGNATOR, 5700K	9196	0.9	86
	WM1	2	WPTZ-L38-750	WILLIAMS OUTDOOR	MEDIUM TRAPEZOID WALLPACK	3829	0.9	41.57
	LC2	12	TFX2 LED 40K Mvort	LITHONIA LIGHTING	TFX2-SERIES FLOODLIGHT, 4000K, 70CRI AND TYPE FL DISTRIBUTION	16358	0.9	94

STATISTICS						
DESCRIPTION	SYMBOL	AVG	MAX	MIN	MAX/MIN	AVG/MIN
PARKING LOT	+	3.1 fc	20.0 fc	1.0 fc	20.0:1	3.1:1
BOUNDARY LINE	+	0.2 fc	1.3 fc	0.0 fc	N/A	N/A



1 SITE PHOTOMETRIC PLAN  
SCALE: 1" = 20'-0"

SCOTT MERIWETHER, P.E.  
NORTH CAROLINA LICENSE #36775  
4245 LAND RD  
BALL GROUND, GA 30107  
PROJECT MANAGER: SCOTT MERIWETHER  
PHONE 678.246.5166

RELEASED FOR CONSTRUCTION

MARK	DATE	DESCRIPTION
	12/20/23	PERMIT SET

SHEET TITLE  
**SITE PHOTOMETRIC PLAN**

PROJECT DATE: 12/20/2023  
PROJECT NUMBER: 2023-0208  
DRAWN BY: GMF

COPYRIGHT:  
 THESE DESIGNS AND DRAWINGS AS INSTRUMENTS OF  
 SERVICE ARE THE PROPERTY OF THE ARCHITECT AND  
 SHALL NOT BE COPIED OR REUSED IN ANY FORM  
 WITHOUT THE WRITTEN PERMISSION OF THE  
 ARCHITECT.  
 THESE DRAWINGS SHALL BE USED ONLY ON THE ORIGINAL  
 PROJECT LOCATION ONLY AND SHALL NOT BE  
 REUSED AT OTHER LOCATIONS.



**NEW TIDAL  
 WAVE AUTO SPA**

US 401  
 ROLESVILLE,  
 NC

OWNER:  
**TIDAL WAVE  
 AUTO SPA**  
 EAST THOMPSON STREET  
 THOMASTON GEORGIA  
 30286



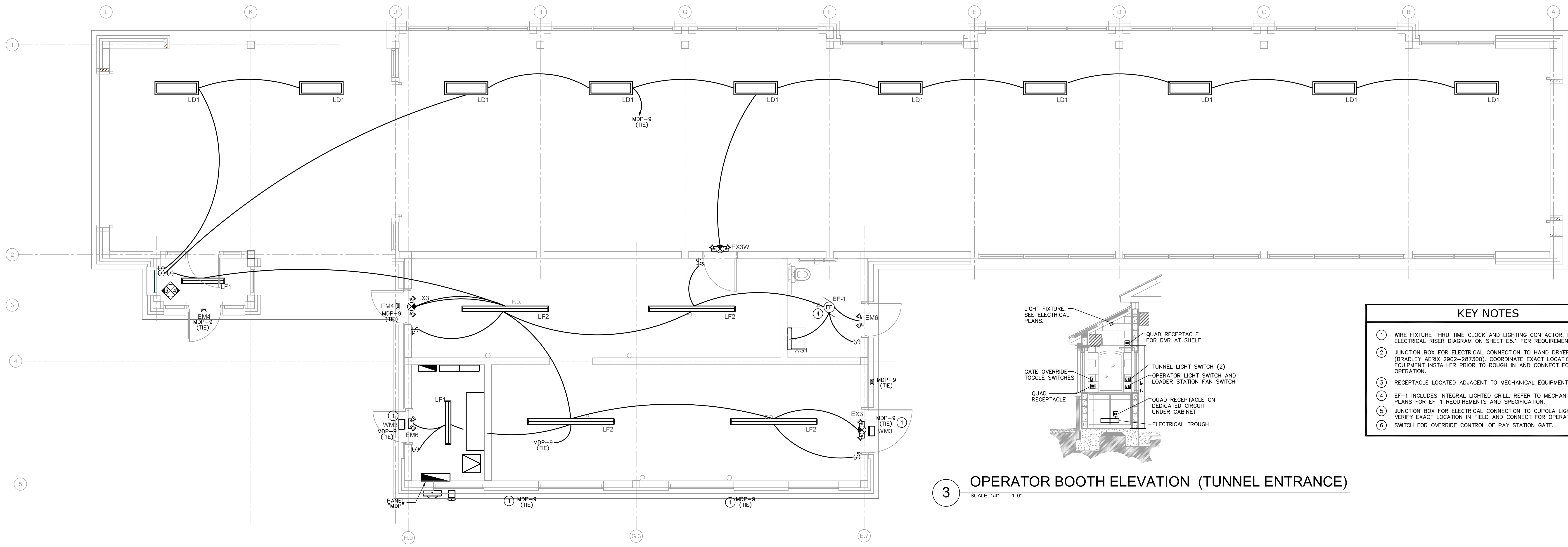
12/20/23	PERMIT SET	
MARK	DATE	DESCRIPTION

**SHEET TITLE**

**ELECTRICAL PLANS**

PROJECT DATE: 12/20/2023  
 PROJECT NUMBER: 2023-0208  
 DRAWN BY: GMF

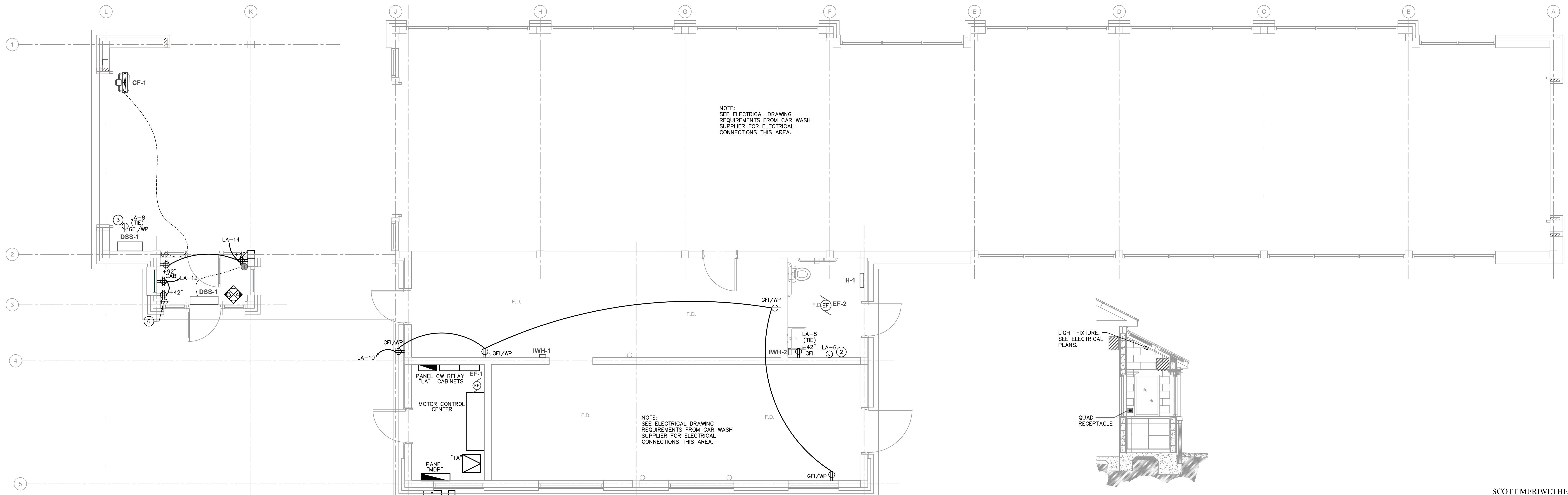
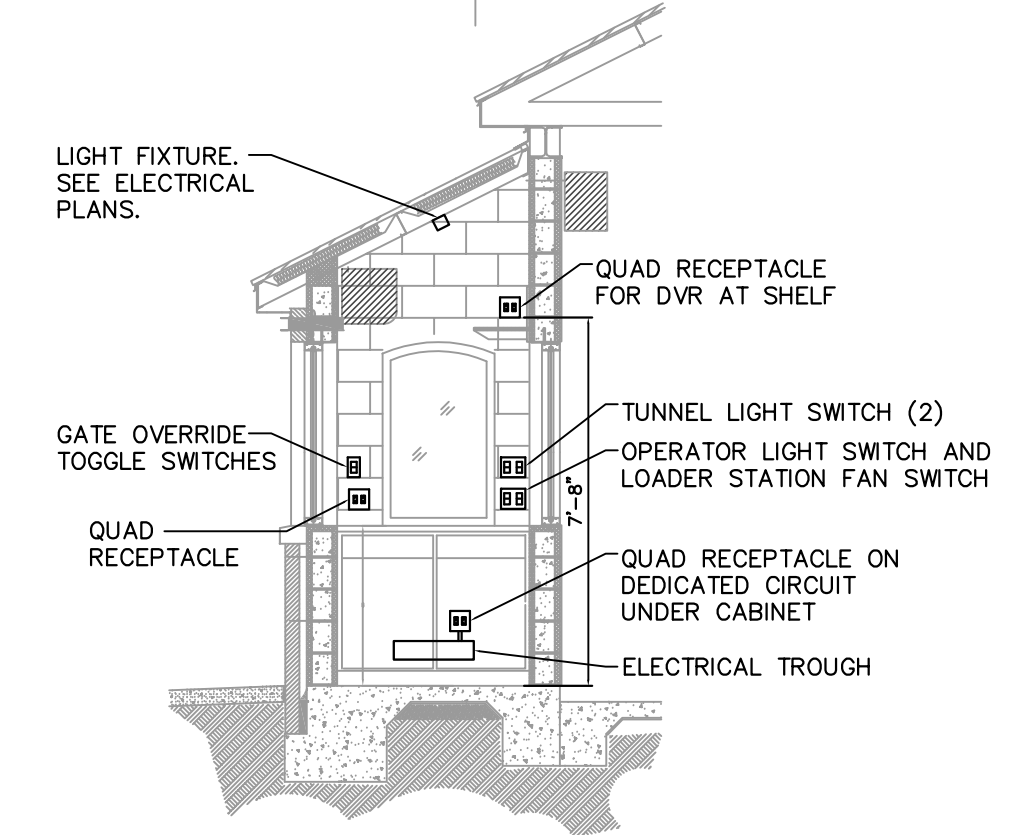
**E2.1**



**1 LIGHTING PLAN**  
 SCALE: 1/4" = 1'-0"

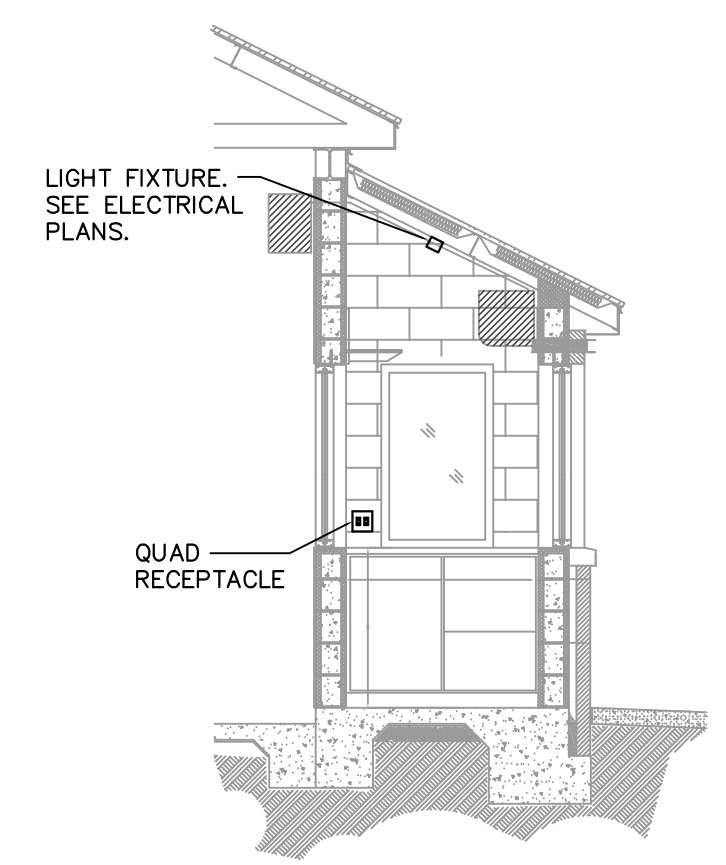
**3 OPERATOR BOOTH ELEVATION (TUNNEL ENTRANCE)**  
 SCALE: 1/4" = 1'-0"

- KEY NOTES**
- 1 WIRE FIXTURE THRU TIME CLOCK AND LIGHTING CONTACTOR. REFER TO ELECTRICAL RISER DIAGRAM ON SHEET E5.1 FOR REQUIREMENTS.
  - 2 JUNCTION BOX FOR ELECTRICAL CONNECTION TO HAND DRYER (BRADLEY AERIX 2902-287300). COORDINATE EXACT LOCATION WITH EQUIPMENT INSTALLER PRIOR TO ROUGH IN AND CONNECT FOR OPERATION.
  - 3 RECEPTACLE LOCATED ADJACENT TO MECHANICAL EQUIPMENT.
  - 4 EF-1 INCLUDES INTEGRAL LIGHTED GRILL. REFER TO MECHANICAL PLANS FOR EF-1 REQUIREMENTS AND SPECIFICATION.
  - 5 JUNCTION BOX FOR ELECTRICAL CONNECTION TO CUPOLA LIGHT FIXTURE. VERIFY EXACT LOCATION IN FIELD AND CONNECT FOR OPERATION.
  - 6 SWITCH FOR OVERRIDE CONTROL OF PAY STATION GATE.



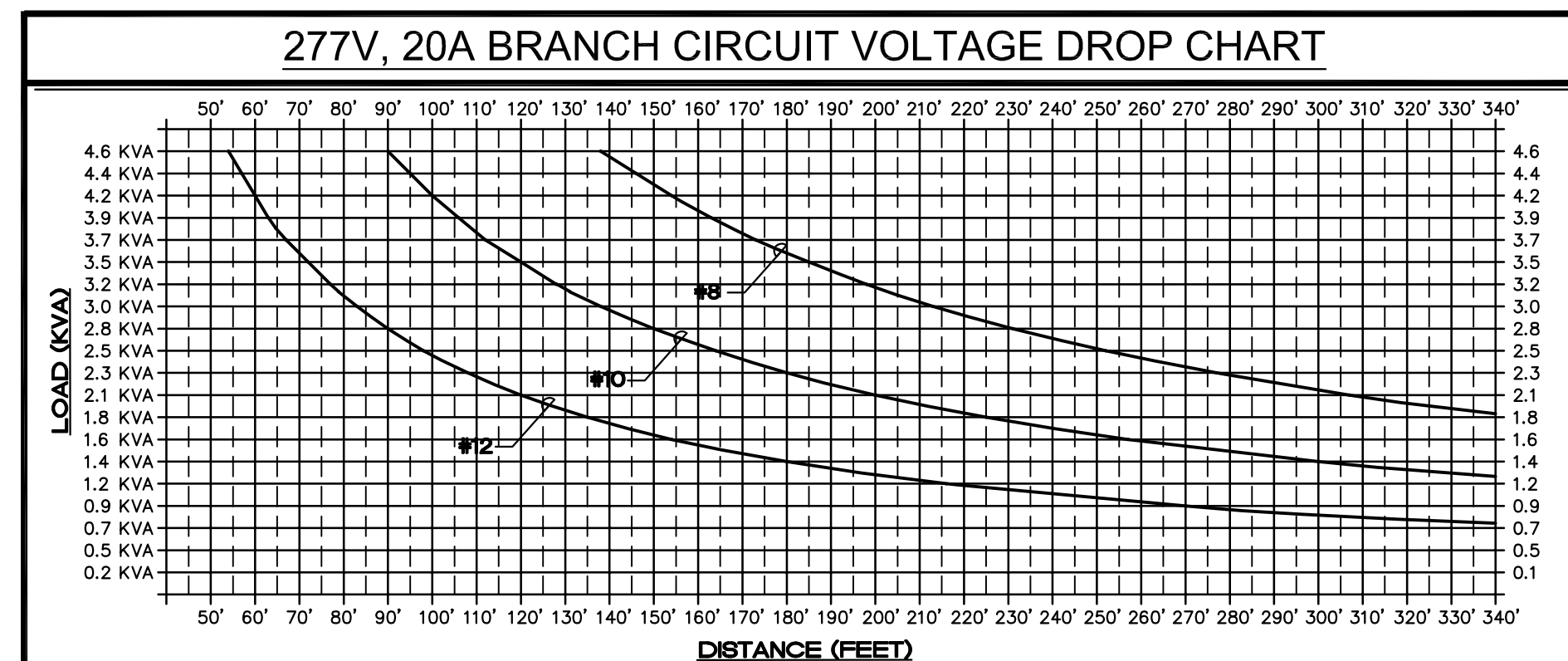
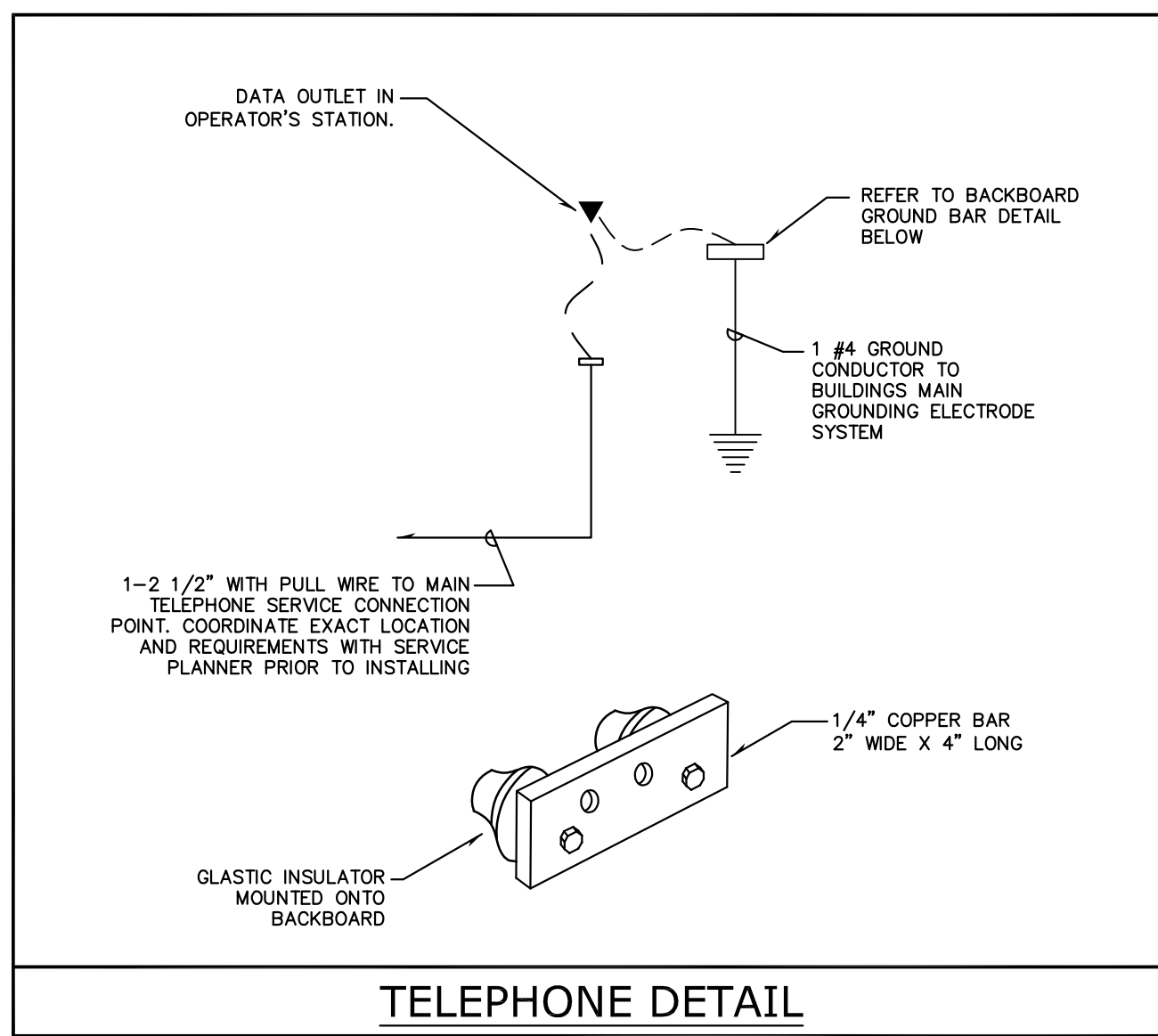
**2 POWER PLAN**  
 SCALE: 1/4" = 1'-0"

**4 OPERATOR BOOTH ELEVATION (TUNNEL EXIT)**  
 SCALE: 1/4" = 1'-0"

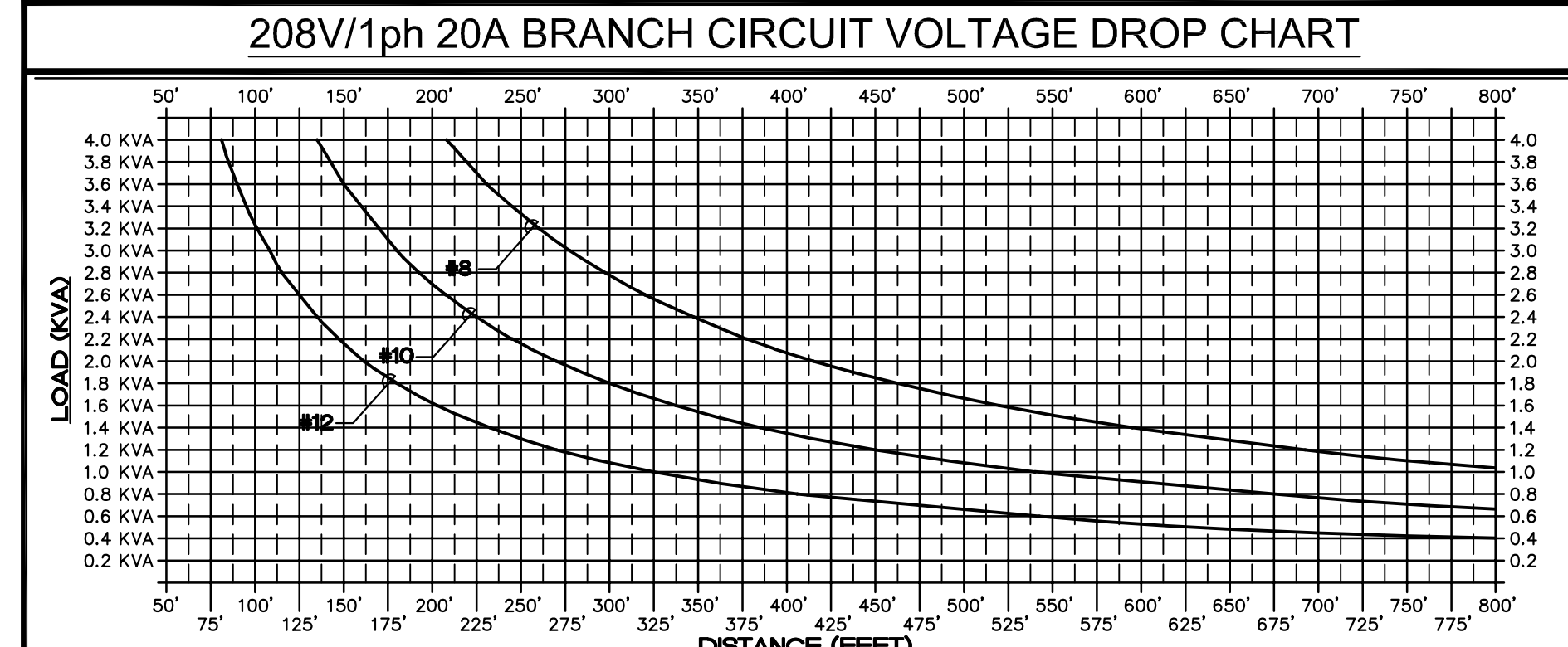


SCOTT MERIWETHER, P.E.  
 NORTH CAROLINA LICENSE #36775  
 4245 LAND RD  
 BALL GROUND, GA 30107  
 PROJECT MANAGER: SCOTT MERIWETHER  
 PHONE 678.246.5166

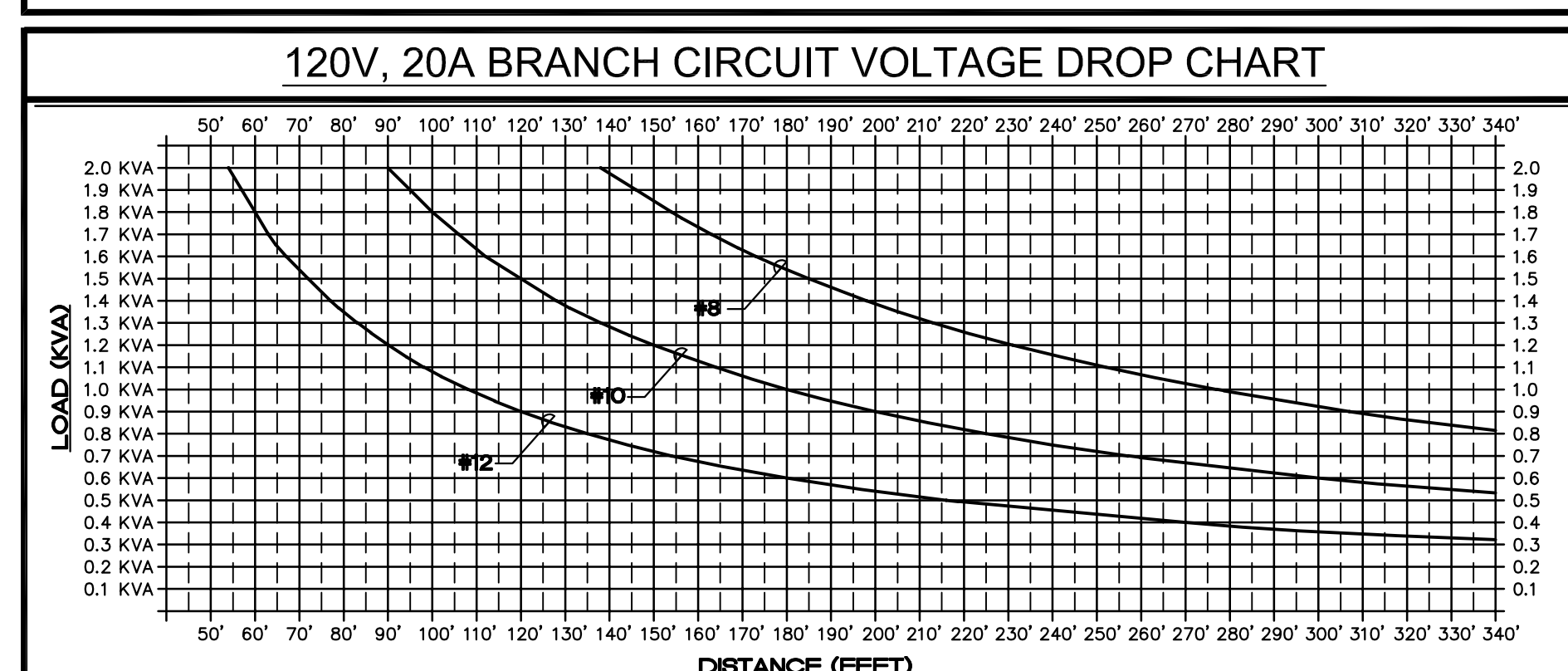
RELEASED FOR CONSTRUCTION



① BASED ON 277V, 20A BRANCH CIRCUIT, COPPER WIRE, 75°C TEMPERATURE RATING, 1.0 POWER FACTOR, & 3% MAXIMUM VOLTAGE DROP.  
 ② CONDUIT MAY BE EMT, IMC, PVC, OR RGS.  
 ③ DOES NOT CONSIDER NEC ALLOWED AMPACITY OR DERATING.  
 ④ DISTANCE INDICATED IS THE TOTAL WIRE LENGTH FROM THE CIRCUIT BREAKER TO THE END DEVICE ON THE BRANCH CIRCUIT.



① BASED ON 208V/1ph 20A BRANCH CIRCUIT, COPPER WIRE, 75°C TEMPERATURE RATING, 1.0 POWER FACTOR, & 3% MAXIMUM VOLTAGE DROP.  
 ② CONDUIT MAY BE EMT, IMC, PVC, OR RGS.  
 ③ DOES NOT CONSIDER NEC ALLOWED AMPACITY OR DERATING.  
 ④ DISTANCE INDICATED IS THE TOTAL WIRE LENGTH FROM THE CIRCUIT BREAKER TO THE END DEVICE ON THE BRANCH CIRCUIT.



① BASED ON 120V, 20A BRANCH CIRCUIT, COPPER WIRE, 75°C TEMPERATURE RATING, 1.0 POWER FACTOR, & 3% MAXIMUM VOLTAGE DROP.  
 ② CONDUIT MAY BE EMT, IMC, PVC, OR RGS.  
 ③ DOES NOT CONSIDER NEC ALLOWED AMPACITY OR DERATING.  
 ④ DISTANCE INDICATED IS THE TOTAL WIRE LENGTH FROM THE CIRCUIT BREAKER TO THE END DEVICE ON THE BRANCH CIRCUIT.

### MECHANICAL EQUIPMENT-ELECTRICAL SCHEDULE

EQUIPMENT TAG	BRANCH CIRCUIT	DISCONNECT SWITCH #		MOTOR STARTER #	NOTES
		FRAME	FUSE		
EF-1	LOCAL LIGHTING CIRCUIT	-	-	1	⑦
EF-2	LOCAL LIGHTING CIRCUIT	-	-	1	⑧
DSS-1	LA-40,42	30	⑨	2	⑩⑪
IWI-1	LA-39,41	30	-	2	⑩
IWI-2	LA-20,22	30	-	2	⑩
CF-1	LA-34	30	-	1	⑩
CF-2	LA-34	30	-	1	⑩

KEY NOTES:  
 ⑦ PROVIDE NEMA 3R ENCLOSURE.  
 ⑧ PROVIDE FUSES AS RECOMMENDED BY EQUIPMENT MANUFACTURER OR NAMEPLATE RATING.  
 ⑨ WIRE CIRCUIT FROM BREAKER TO CONDENSING UNIT DISCONNECT, WIRE ASSOCIATED AIR HANDLING UNIT FROM CONDENSING UNIT TERMINAL BLOCK, COORDINATE WITH MECHANICAL EQUIPMENT. PROVIDE MOTOR RATED SWITCH ADJACENT TO AHU FOR LOCAL DISCONNECTING MEANS.  
 ⑩ PROVIDE MOTOR RATED SWITCH, MOUNT SWITCH ADJACENT TO UNIT.  
 ⑪ CONTROL FAN WITH LOCAL LIGHT SWITCH IN ROOM. FOR 277 VOLT LIGHTING BRANCH CIRCUIT, PROVIDE STEP DOWN TRANSFORMER AND CONNECT FOR OPERATION.  
 ⑫ CONTROL FAN WITH MOTOR RATED SWITCH, MOUNTED AT 42" AFF. PROVIDE GFI RECEPTACLE IN A WEATHERPROOF BOX FOR CONNECTION TO FAN, MOUNT RECEPTACLE ADJACENT TO FAN AND CONNECT FOR OPERATION.  
 ⑬ WIRE CIRCUIT TO FAN FOR CONTINUOUS OPERATION. FOR 277 VOLT LIGHTING BRANCH CIRCUIT, PROVIDE STEP DOWN TRANSFORMER AND CONNECT FOR OPERATION.  
 ⑭ CONTROL FAN WITH MOTOR RATED SWITCH, MOUNTED AT 42" AFF IN OPERATOR STATION. PROVIDE GFI RECEPTACLE IN A WEATHERPROOF BOX FOR CONNECTION TO FAN, MOUNT RECEPTACLE ADJACENT TO FAN AND CONNECT FOR OPERATION.  
 \* DISCONNECT / MOTOR STARTER TO BE PROVIDED BY THIS CONTRACTOR.

### SCHEDULE OF DISTRIBUTION PANEL

TAG	CIRCUIT DESCRIPTION	FEEDER			AIC SYMMETRICAL		
		A PHASE	B PHASE	C PHASE	150,000	100,000	75,000
MDP-1	PANEL "LA"	-	-	-	11.5	14.1	13.5
MDP-2	MOTOR CONTROL CENTER	-	-	-	158.1	158.1	158.1
MDP-3	RO UNIT (1-D)	-	-	-	2.0	2.0	2.0
MDP-4	RO PRESSURIZER (1-E)	-	-	-	2.0	2.0	2.0
MDP-5	H2O REP. PUMP-5 (1-F)	-	-	-	2.0	2.0	2.0
MDP-6	RO REJECT PUMP (1-X)	-	-	-	2.0	2.0	2.0
MDP-7	COMPRESSOR 10 HP (10-A)	-	-	-	3.9	3.9	3.9
MDP-8	COMPRESSOR 10 HP (10-B)	-	-	-	3.9	3.9	3.9
MDP-9	LTO, CW BUILDING	-	-	-	2.0	-	-
MDP-10	LTO, VACUUM ENC/PAY & PREP CANOPY	-	-	-	1.0	-	-
MDP-11	LTO, VACUUM CANOPIES	-	-	-	-	-	-
MDP-12	BREAKER PROVISION	-	-	-	-	-	-
MDP-13	BREAKER PROVISION	-	-	-	-	-	-
MDP-14	BREAKER PROVISION	-	-	-	-	-	-
MDP-15	BREAKER PROVISION	-	-	-	-	-	-
MDP-16	BREAKER PROVISION	-	-	-	-	-	-
MDP-17	BREAKER PROVISION	-	-	-	-	-	-
MDP-18	BREAKER PROVISION	-	-	-	-	-	-
MDP-19	BREAKER PROVISION	-	-	-	-	-	-
MDP-20	BREAKER PROVISION	-	-	-	-	-	-
MDP-21	BREAKER PROVISION	-	-	-	-	-	-
MDP-22	SPU	-	-	-	-	-	-
				4#8 & 1#10G IN 3/4"	188.4	190.0	191.6
					680	686	692
					576.0		
					KVA TOTAL PER PHASE		
					AMPS TOTAL PER PHASE		

### SCHEDULE OF BRANCH CIRCUIT PANEL

CIRCUIT DESCRIPTION	"LA"			AIC SYMMETRICAL		
	A PHASE	B PHASE	C PHASE	20,000	15,000	10,000
CONTROL 120V (1-A)	2#12 1#12 3/4"	15	1	0.8	-	-
CONTROL 120V (1-DE)	2#12 1#12 3/4"	18	3	0.8	-	-
CONTROL 120V (1-F)	2#12 1#12 3/4"	15	5	0.8	1.5	-
H2O SOFTENER (1-P)	2#12 1#12 3/4"	15	7	0.8	0.4	-
BOILER HEATER (9-C)	2#10 1#10 3/4"	30	9	0.8	0.8	-
DRAFT HEATER (9-E)	2#12 1#12 3/4"	15	11	0.8	0.8	-
DRAFT HEATER (9-E)	2#12 1#12 3/4"	15	13	0.8	0.8	-
DRAFT HEATER (9-E)	2#12 1#12 3/4"	15	15	0.8	-	-
NEON SIGNS	2#12 1#12 3/4"	20	17	0.8	-	-
NEON SIGNS	2#12 1#12 3/4"	20	19	0.8	2.1	-
GATE (20-D)	2#12 1#12 3/4"	20	21	0.8	2.1	-
RELAY BOX (20-1)	2#12 1#12 3/4"	20	23	0.8	1	-
MENU SIGN (30-1)	2#12 1#12 3/4"	20	25	0.8	0.8	-
SERVER COMPUTER	2#12 1#12 3/4"	20	27	0.8	0.8	-
RECLAIM UNIT (1-A)	2#12 1#12 3/4"	30	28	0.8	0.8	-
				0.8	0.8	-
				3.1	0.8	0.8
				3.3	1.4	1.4
				1.2	1.2	1.2
				2.0	3.7	1.0
				2.1	1.1	1.1
				11.5	14.1	13.5
				96	118	113
				KVA TOTAL PER PHASE		
				AMPS TOTAL PER PHASE		

### SCHEDULE OF DRY-TYPE TRANSFORMER

MARK	KVA	PRIMARY VOLTAGE	SECONDARY VOLTAGE	MOUNTING	MARK	SECONDARY FEEDER BREAKER	FEEDER	NOTES
**A	45	480 VOLT	208/120 VOLT	FLOOR	TA-1L	⑩	4#1/2 & 1#6G IN 2"	

KEY NOTE:  
 ⑩ PANEL MAIN BREAKER IS TRANSFORMER SECONDARY BREAKER.

### RELAY CABINET 1 (COMPUTER SCREEN) SCHEDULE

RELAY	A	B	C	D	E	E
1	SPARE	SPARE	SPARE	TIREBRUSH/ROCKER 1 MOTOR	TIREBRUSH/ROCKER 2 MOTOR	SPARE
2	SPARE	SPINNER HIGH PRESSURE	OMNI SIDE HIGH PRESSURE	MIRROR RINSE	SPARE	BLOWERS 1/2
3	BLOWERS 3/4	BLOWERS 5/6	BLOWERS 7/8	BLOWERS 9/10	BLOWERS 11/12	BLOWERS 13/14
4	WRAP 1 H2O	TIREBRUSH 1 AIR	UNDERBODY	SPINNER FLIP	SPARE	SPARE
5	WRAP 2 H2O	TOPBRUSH 1 H2O	SPARE	TOPBRUSH 1 AIR	SPARE	TIREBRUSH 2 PASSENGER SIDE AIR
6	TOPBRUSH 2 H2O	PRERINSE 1	FINAL RINSE	TIREBRUSH 2 DRIVER SIDE AIR	OMNI SIDE FLIP	WRAP 1 AIR
7	LAVA	SCENT	SPARE	WRAP 2 FOAM	BUFF N SHINE AIR	WRAP 2 AIR
8	RAIN X	1ST FOAMER	TRI FOAM TOP	SUPER LO	SPARE	HOT WAX
9	CTA1	PRERINSE 2	LAVA SEAL	TRESHINE CHEM/AIR	SPARE	SPARE
10	ROLLER UP	CTA2	TOPBRUSH 2 AIR	PRESOAK	CERAMIC 1	CERAMIC 2
11	DRYING AGENT	CTA3	TRIFOAM SIDES	CERAMIC 3	SPARE	SPARE
12	SPARE	SPARE	SPARE	SPARE	SPARE	SPARE

### RELAY CABINET 2 (NO COMPUTER SCREEN) SCHEDULE

RELAY	A	B	C	D	E	E
1	BLOWER LIGHTS	PRERINSE 2 LT	SUPER LO LIGHT	HOT WAX LIGHT	TOPBRUSH 1 LIGHT	SPARE
2	LAVA SEAL LIGHT	TOPBRUSH 2 LIGHT	BUFF LT ON 1ST BLOWER ARCH	TRESHINE STANDING LIGHT	BUFF N SHINE STANDING LIGHT	CERAMIC LIGHT
3	SPARE	\$25 WASH LIGHT	\$20 WASH LIGHT	\$15 WASH LIGHT	\$10 WASH LIGHT	STOP/GO LIGHT
4	SPARE	\$20 CONFIRMATION LIGHT	\$15 CONFIRMATION LIGHT	\$10 CONFIRMATION LIGHT	\$25 CONFIRMATION LIGHT	PROJECTOR
5	RAIN X LIGHT	LAVA LIGHT	TRIFOAM LIGHT	PRERINSE 2 LIGHT	PRERINSE 1 LIGHT	SPARE

### RELAY CABINET INPUTS SCHEDULE

A	B	C	E
PULSE SWITCH	ENTER SWITCH	TIRE SWITCH	ANTI COLLISION

### RELAY CABINET GENERAL NOTES

- ALL WRAP MOTORS AND TOP BRUSH MOTORS ARE WIRED INTO THE MCC TO STAY ON WITH THE CONVEYOR.
- THE INSTRUCTION SIGN (CAR IN NEUTRAL, HANDS OFF THE WHEEL, ETC.), YOUR CAR WILL BE RECEIVING, AND THE THANK YOU FOR RECEIVING PORTIONS ON THE SIGNS ARE ALSO WIRED IN TO THE CONVEYOR. THIS DOES NOT INCLUDE THE LIGHTS TELLING YOU WHAT WASH YOU PURCHASED, JUST THE VERY TOP SECTION OF THE SIGN.
- BLOWERS ARE TO BE WIRED IN THE FOLLOWING ORDER: BLOWERS 1-6 WILL ALWAYS BE THE BLOWERS IN THE MIDDLE OF THE TUNNEL, AND SHOULD ALWAYS BE ALIGNED TOGETHER. THE REST OF THE BLOWER SEQUENCE WILL START AFTER 1-6 ARE IDENTIFIED (EXAMPLE: 7/8, 9/10, 11/12). IF YOU DO NOT HAVE 6 BLOWERS IN THE MIDDLE, THEN START TO LABEL THE BLOWERS IN THE NEXT CORRECT SEQUENCE.
- THE STOP/GO LIGHT MUST BE WIRED INTO AN ISG CABLE RELAY SO THE LIGHT IS NOT LEFT ON ALL NIGHT LONG.
- ALL BLOWER LIGHTS ARE TIED TOGETHER INTO 1 WIRING.
- IF YOU HAVE ANY QUESTIONS OR ARE UNSURE OF REPLY CONTACT THE FOLLOWING PEOPLE:  
 1. BOBBY FUTCH - 706-975-7832  
 2. MICHAEL (DENNIS) MARTIN - 706-975-5337  
 DO NOT WIRE DIFFERENTLY THAN WHAT THIS LIST SHOWS UNLESS APPROVED BY BOBBY OR MICHAEL.

### SCHEDULE OF BRANCH CIRCUIT PANEL

CIRCUIT DESCRIPTION	"LA"			AIC SYMMETRICAL		
	A PHASE	B PHASE	C PHASE	20,000	15,000	10,000
CONTROL 120V (1-A)	2#12 1#12 3/4"	15	1	0.8	-	-
CONTROL 120V (1-DE)	2#12 1#12 3/4"	18	3	0.8	-	-
CONTROL 120V (1-F)	2#12 1#12 3/4"	15	5	0.8	1.5	-
H2O SOFTENER (1-P)	2#12 1#12 3/4"	15	7	0.8	0.4	-
BOILER HEATER (9-C)	2#10 1#10 3/4"	30	9	0.8	0.8	-
DRAFT HEATER (9-E)	2#12 1#12 3/4"	15	11	0.8	0.8	-
DRAFT HEATER (9-E)	2#12 1#12 3/4"	15	13	0.8	0.8	-
DRAFT HEATER (9-E)	2#12 1#12 3/4"	15	15	0.8	-	-
NEON SIGNS	2#12 1#12 3/4"	20	17	0.8	-	-
NEON SIGNS	2#12 1#12 3/4"	20	19	0.8	2.1	-
GATE (20-D)	2#12 1#12 3/4"	20	21	0.8	2.1	-
RELAY BOX (20-1)	2#12 1#12 3/4"	20	23	0.8	1	-
MENU SIGN (30-1)	2#12 1#12 3/4"	20	25	0.8	0.8	-
SERVER COMPUTER	2#12 1#12 3/4"	20	27	0.8	0.8	-
RECLAIM UNIT (1-A)	2#12 1#12 3/4"	30	28	0.8	0.8	-
				0.8	0.8	-
				3.1	0.8	0.8
				3.3	1.4	1.4
				1.2	1.2	1.2
				2.0	3.7	1.0
				2.1	1.1	1.1
				11.5	14.1	13.5
				96	118	113
				KVA TOTAL PER PHASE		
				AMPS TOTAL PER PHASE		

### SCHEDULE OF DRY-TYPE TRANSFORMER

MARK	KVA	PRIMARY VOLTAGE	SECONDARY VOLTAGE	MOUNTING	MARK	SECONDARY FEEDER BREAKER	FEEDER	NOTES
**A	45	480 VOLT	208/120 VOLT	FLOOR	TA-1L	⑩	4#1/2 & 1#6G IN 2"	

KEY NOTE:  
 ⑩ PANEL MAIN BREAKER IS TRANSFORMER SECONDARY BREAKER.

### RELAY CABINET 1 (COMPUTER SCREEN) SCHEDULE

RELAY	A	B	C	D	E	E
1	SPARE	SPARE	SPARE	TIREBRUSH/ROCKER 1 MOTOR	TIREBRUSH/ROCKER 2 MOTOR	SPARE
2	SPARE	SPINNER HIGH PRESSURE	OMNI SIDE HIGH PRESSURE	MIRROR RINSE	SPARE	BLOWERS 1/2
3	BLOWERS 3/4	BLOWERS 5/6	BLOWERS 7/8	BLOWERS 9/10	BLOWERS 11/12	BLOWERS 13/14
4	WRAP 1 H2O	TIREBRUSH 1 AIR	UNDERBODY	SPINNER FLIP	SPARE	SPARE
5	WRAP 2 H2O	TOPBRUSH 1 H2O	SPARE	TOPBRUSH 1 AIR	SPARE	TIREBRUSH 2 PASSENGER SIDE AIR
6	TOPBRUSH 2 H2O	PRERINSE 1	FINAL RINSE	TIREBRUSH 2 DRIVER SIDE AIR	OMNI SIDE FLIP	WRAP 1 AIR
7	LAVA	SCENT	SPARE	WRAP 2 FOAM	BUFF N SHINE AIR	WRAP 2 AIR
8	RAIN X	1ST FOAMER	TRI FOAM TOP	SUPER LO	SPARE	HOT WAX
9	CTA1	PRERINSE 2	LAVA SEAL	TRESHINE CHEM/AIR	SPARE	SPARE
10	ROLLER UP	CTA2	TOPBRUSH 2 AIR	PRESOAK	CERAMIC 1	CERAMIC 2
11	DRYING AGENT	CTA3	TRIFOAM SIDES	CERAMIC 3	SPARE	SPARE
12	SPARE	SPARE	SPARE	SPARE	SPARE	SPARE

### RELAY CABINET 2 (NO COMPUTER SCREEN) SCHEDULE

RELAY	A	B	C	D	E	E
1	BLOWER LIGHTS	PRERINSE 2 LT	SUPER LO LIGHT	HOT WAX LIGHT	TOPBRUSH 1 LIGHT	SPARE
2	LAVA SEAL LIGHT	TOPBRUSH 2 LIGHT	BUFF LT ON 1ST BLOWER ARCH	TRESHINE STANDING LIGHT	BUFF N SHINE STANDING LIGHT	CERAMIC LIGHT
3	SPARE	\$25 WASH LIGHT	\$20 WASH LIGHT	\$15 WASH LIGHT	\$10 WASH LIGHT	STOP/GO LIGHT
4	SPARE	\$20 CONFIRMATION LIGHT	\$15 CONFIRMATION LIGHT	\$10 CONFIRMATION LIGHT	\$25 CONFIRMATION LIGHT	PROJECTOR
5	RAIN X LIGHT	LAVA LIGHT	TRIFOAM LIGHT	PRERINSE 2 LIGHT	PRERINSE 1 LIGHT	SPARE

### RELAY CABINET INPUTS SCHEDULE

A	B	C	E
PULSE SWITCH	ENTER SWITCH	TIRE SWITCH	ANTI COLLISION

### RELAY CABINET GENERAL NOTES

DUCTLESS AIR CONDITIONING SPLIT SYSTEM SCHEDULE																		
MARK	MITSUBISHI MODEL	INDOOR	NOMINAL TONNAGE	TOTAL COOLING MBH	SENSIBLE COOLING MBH	TOTAL SUPPLY CFM	HEATING @ 47°F MBH	SEER/HSPF	ENTERING DB/WB °F	LEAVING DB/WB °F	VOLTAGE PHASE V/NO	MCA/MOCP AMPS	WEIGHT LBS	DIMENSIONS IN	NOTES			
DSS-1	MUZ-GE09	MSZ-GE09	0.75	9.0	7.2	300	10.8	21.0/10	75/64	55/54	208/1	12/15	1.0/20	66	22	32x13x22	32x9x12	1,2,3,4,5,6,7,8,9

1. APPROVED EQUAL MANUFACTURER: DAIKIN, LG  
 2. COOLING CAPACITIES BASED ON STANDARD ARI CONDITIONS  
 3. HIGH SIDEWALL INDOOR UNIT  
 4. SUPPLY AIRFLOW CFM BASED ON HIGH SPEED AND DRY COIL  
 5. HEAT PUMP SYSTEM (HEATING AT 17°F)  
 6. PROVIDE LOW AMBIENT CONTROL  
 7. PROVIDE MIN. 30% EFF. FILTER  
 8. PROVIDE HARD WIRED WALL MOUNTED CONTROLLER  
 9. PROVIDE INTEGRAL CONDENSATE PUMP

EXHAUST FAN SCHEDULE															
MARK	GREENHECK MODEL	SERVICE AREA	CONFIGUR.	TOTAL EXHAUST CFM	APPROX. ESP IN WG	SONES	SUPPLY FAN HP	RPM	DRIVE	VOLTAGE PHASE V/NO	WEIGHT LBS	DIMENSION IN	OPENING IN	CONTROL	NOTES
EF-1	SP-A110	ELECTRICAL	CEILING	75	0.25	1.1	49W	950	DIRECT	120/1	17	11x14x9	N/A	CONTINUOUS	1,2,3,4,5,6
EF-2	SP-A110-L	RESTROOM	CEILING	75	0.25	1.1	49W	950	DIRECT	120/1	17	11x14x9	N/A	WALL SWITCH	1,2,3,4,5

**NOTES:**  
 1. APPROVED EQUAL MANUFACTURER: COOK, PENN, ACME  
 2. CEILING EXHAUST FAN WITH INTEGRAL CEILING GRILLE  
 3. PROVIDE MOTOR MOUNTED DISCONNECT SWITCH  
 4. PROVIDE MOTOR WITH THERMAL OVERLOADS  
 5. PROVIDE FACTORY TIME DELAY SWITCH AND SET TO 10 MIN.  
 6. PROVIDE FAN/LIGHT COMBINATION.

**GENERAL FAN NOTES:**  
 a. MOTOR STARTERS, DISCONNECTS (IF NOT FACTORY PROVIDED) AND ALL EQUIPMENT NORMAL POWER WIRING BY ELEC. CONTRACTOR  
 b. ALL CONTINUOUS-DUTY MOTORS SHALL BE PROVIDED WITH OVERLOAD PROTECTION ACCORDING TO NATIONAL ELECTRICAL CODE PAR. 430-32.  
 c. FIELD ADJUST OPENINGS WITH STRUCTURE.

**COORDINATION NOTE:**  
 MECHANICAL CONTRACTOR SHALL COORDINATE ALL ELECTRICAL REQUIREMENTS AND ACCESSORIES WITH ELECTRICAL CONTRACTOR PRIOR TO PURCHASING AND INSTALLATION AND SHALL BRING ANY DISCREPANCIES TO THE ATTENTION OF ENGINEER

ELECTRIC HEATER SCHEDULE													
MARK	MODEL	MOUNT	ELECTRIC HEAT KW	SUPPLY CFM	DUCT SIZE IN	VOLTAGE PHASE V/NO	MCA/MOCP AMPS	WEIGHT LBS	DIMENSION IN	NOTES			
H-1	MARKEL F34227	WALL	2.0	100	N/A	208/1	9.6/15	6	-	1,2,3			

**NOTES:**  
 1. ELECTRIC WALL HEATER  
 2. DISCONNECT TO BE PROVIDED AND INSTALLED BY ELECTRICAL CONTRACTOR  
 3. PROVIDE BUILT IN THERMOSTAT

### MECHANICAL NOTES

- THE CONTRACTOR SHALL FURNISH ALL LABOR, MATERIALS, AND EQUIPMENT NECESSARY FOR THE INSTALLATION OF A COMPLETE SYSTEM IN ACCORDANCE WITH THESE DRAWINGS, INTERNATIONAL BUILDING CODE (IBC) 2012, INTERNATIONAL ENERGY CONSERVATION CODE (IECC) 2012 AND ALL OTHER APPLICABLE STATE, COUNTY AND LOCAL ORDINANCES AND THE LATEST ADDITION OF THE FOLLOWING PUBLICATIONS: SMACNA-SS, 92, 95; ASHRAE 15-01, 34-01, 62.1; NFPA 70-02, 72-02, 90A-02, 90B-02, 91-99, 96-01; ANSI Z10.1-95, Z10.3-95, Z21.5-94, Z21.53-95.
- THE CONTRACTOR SHALL PAY ALL COSTS OF PERMIT, INSPECTIONS AND ALL OTHER COSTS INCIDENTAL TO THE COMPLETION AND TESTING OF THIS WORK.
- THE CONTRACTOR SHALL VISIT THE SITE AND COORDINATE WORK WITH OTHER TRADES.
- THE CONTRACTOR SHALL SUPPLY THE ARCHITECT WITH "AS-BUILT" DRAWINGS.
- CONTRACTOR SHALL SUBMIT, FOR APPROVAL FIVE (5) COPIES OF MANUFACTURER'S DRAWINGS FOR EACH PIECE OF EQUIPMENT AND CONTROLS INCLUDED IN CONTRACT.
- ALL MATERIAL SHALL BE NEW OF U.S. MANUFACTURER OF GOOD QUALITY. ALL WORK SHALL BE PERFORMED AT INDUSTRY STANDARD QUALITY LEVEL BY CERTIFIED PROFESSIONALS. ALL EQUIPMENT SHALL BE UL OR ETL LISTED.
- ALL EXHAUST DUCTS AND OUTSIDE AIR DUCTS SHALL BE GALVANIZED SHEET METAL WITH SEALED SEAMS AND JOINTS. ALL OUTSIDE AIR DUCT SHALL BE INSULATED WITH EXTERNAL BLANKET INSULATION R-6 MIN. ALL METAL EXHAUST, MAKE-UP OR OTHERWISE DUCTS INSTALLED IN LOCATIONS WHERE DEWPOINT CONDITIONS CAN OCCUR INSIDE THE DUCT SHALL BE EXTERNALLY INSULATED WITH R-6 MIN. DUCT SIZES SHOWN ARE INSIDE DIMENSIONS.
- ALL AIR DEVICES (DIFFUSERS, REGISTERS AND GRILLES) SHALL BE EXPOSED SURFACE OFF WHITE BAKED ENAMEL FINISH OR AS SPECIFIED BY ARCHITECT. DEVICES SHALL BE AS SPECIFIED OR EQUAL TO TITUS PROVIDE OPPOSED BLADE DAMPERS AT ALL DIFFUSERS AND REGISTERS AS INDICATED ON PLANS. PROVIDE BALANCING DAMPERS FOR ALL AIR DEVICES TO ENSURE COMPLIANCE WITH INTERNATIONAL MECHANICAL CODE (IMC) 2012 FOR BALANCED AIR FLOW.
- CONTROLS:  
 A. FOR NEW UNITS: SHALL BE COMBINATION COOLING/HEATING, WITH SYSTEM "COOL-AUTO-HEAT-OFF" AND FAN "ON-AUTO" SELECTOR SWITCHES. PROVIDE PROGRAMMABLE TYPE AS RECOMMENDED BY MANUFACTURER HONEYWELL OR EQUAL. PROVIDE TAMPER PROOF COVERS.  
 B. THERMOSTAT LOCATION SHALL BE APPROVED BY OWNER AND ENGINEER BEFORE INSTALLATION. INSTALL THERMOSTAT 48" TO 54" A.F.F. PER A.D.A REQUIREMENTS WHERE APPLICABLE. MECHANICAL CONTRACTOR SHALL COORDINATE WITH ELECTRICAL CONTRACTOR ALL REQUIREMENTS FOR JUNCTION BOXES, CONDUITS, CONTROL WIRING, POWER, ETC. AND DEFINE RESPONSIBILITIES AND SCOPE OF WORK FOR EACH TRADE PRIOR TO ANY PURCHASING OR INSTALLATION.  
 C. PROVIDE A MIN. OF 36" CLEARANCE IN FRONT OF ALL 120-208 VOLT PANELS AND MIN. 42" CLEARANCE IN FRONT OF ANY 240-480 VOLT PANEL. PROVIDE ADEQUATE SIDE CLEARANCE PER NEC.  
 D. MECHANICAL PLANS IN GENERAL ARE DIAGRAMMATIC IN NATURE, AND ARE TO BE READ IN CONJUNCTION WITH ARCHITECTURAL, PLUMBING, ELECTRICAL, FIRE SPRINKLER, AND STRUCTURAL PLANS AND SHALL BE CONSIDERED AS ONE SET OF DOCUMENTS. DUCT AND PIPING OFFSETS, BENDS AND TRANSITIONS SHALL BE REQUIRED TO PROVIDE AND INSTALL A COMPLETE FUNCTIONAL SYSTEM AND SHALL BE PROVIDED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER. CHANGES IN DUCTWORK SIZE AND ROUTE WILL BE REQUIRED TO AVOID STRUCTURAL, PLUMBING, FIRE SPRINKLER AND ARCHITECTURAL BUILDING FEATURES. DUCTWORK CHANGES MAY BE MADE BY CONTRACTOR USING EQUIVALENT SIZED DUCT. CONTACT ENGINEER IF DUCT AREA WILL NOT FIT.  
 E. THE CONTRACTOR SHALL VERIFY FIELD CONDITIONS PRIOR TO BIDDING, ORDERING, FABRICATION OR INSTALLATION OF MATERIALS OR EQUIPMENT.  
 F. MANUFACTURER'S WARRANTY: CONTRACTOR SHALL PROVIDE WARRANTY FOR A PERIOD OF (1) ONE YEAR AFTER BUILDING C.O. FOR ALL MECHANICAL SYSTEMS, DUCTWORK, CONTROLS ACCESSORIES AND ALL OTHER EQUIPMENT, PARTS AND LABOR UNDER THESE DRAWINGS AND SPECIFICATIONS. CONTRACTOR SHALL PROVIDE WARRANTY FOR COMPRESSORS FOR (5) FIVE YEARS. ANY REPAIRS REQUIRING SYSTEM SHUTDOWN ALL BE DONE DURING NON-OPERATIONAL PERIODS OR AS AGREED WITH OWNER.

CEILING FAN SCHEDULE													
MARK	MANUFACTURER MODEL	SERVICE AREA	FAN HP	DRIVE	VOLTAGE PHASE V/NO	MCA/MOCP AMPS	WEIGHT LBS	BLADE DIAMETER FT	NOTES				
CF-1	DAYTON 1VCF9	GW TUNNEL ENTRY	1/4	DIRECT	120/1	2.9/10	100	1'-6"	1,2,3,4,5				
CF-2	DAYTON 1VCF9	FEAT STATION	1/4	DIRECT	120/1	2.9/10	100	1'-6"	1,2,3,4,5				

**NOTES:**  
 1. APPROVED EQUAL MANUFACTURER: BAF, RITEHITE, MACROAIR, PATTERSON  
 2. WALL HIGH VOLUME HIGH SPEED FAN  
 3. PROVIDE WALL SWITCH  
 4. PROVIDE MOUNTING KIT AS REQUIRED  
 5. PROVIDE FAN RATED FOR WASHDOWN ENVIRONMENTS

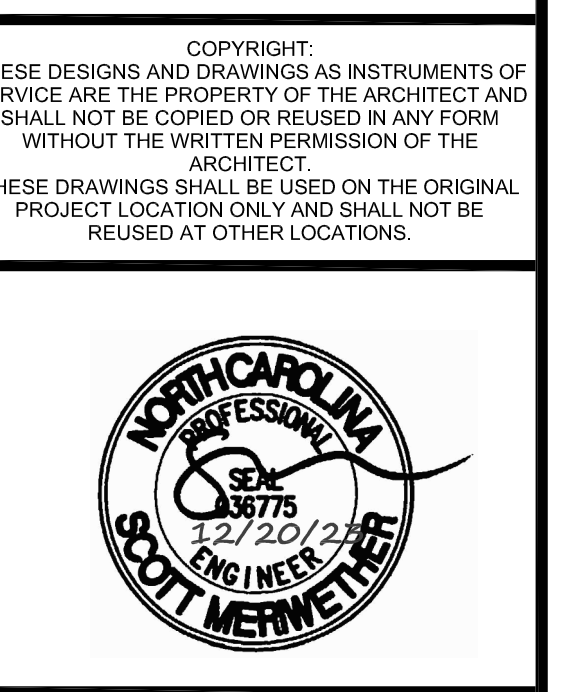
### MECHANICAL LEGEND

R	REFRIGERANT PIPING
○	DROPPING OR RISING PIPE
○	PIPE TO OR FROM ABOVE
○	ISOLATING GATE OR BALL VALVE
○	NEW SCOPE OF WORK
○	EXISTING
24x12	RECTANGULAR DUCT SIZE: FIRST DIMENSION IS SIDE DRAWN
○	ROUND DUCTWORK OR FLUE PIPING
○	NEW FLEXIBLE ROUND DUCT
○	ADJUSTABLE DEFLECTOR VANES AT BRANCH DUCT
○	SQUARE DUCT ELBOW WITH TURNING VANES
FD	FIRE DAMPER IN DUCT THROUGH WALL
○	AUTOMATIC (MOTORIZED) CONTROL DAMPER
○	MANUAL VOLUME DAMPER
○	SPIN-IN TAP
○	WALL MOUNTED THERMOSTAT WITH TEMPERATURE SENSOR
○	CARBON MONOXIDE (CO) SENSOR
○	NITROGEN DIOXIDE (NO2) SENSOR
○	FLAMMABLE VAPORS SENSOR
○	CARBON MONOXIDE CONTROL PANEL
U.C.	UNDERCUT DOOR 3/4"

### MECHANICAL ABBREVIATION LEGEND

AFF	ABOVE FINISHED FLOOR	MAX	MAXIMUM
CFM	CUBIC FEET PER MINUTE	MBH	THOUSAND BTU PER HOUR
DIA	DIAMETER	MIN	MINIMUM
DX	DIRECT EXPANSION	N	NEW
E/A	EXHAUST AIR	O/A	OUTDOOR AIR
ESP	EXTERNAL STATIC PRESSURE	PD	PRESSURE DROP
ETR	EXISTING TO REMAIN	PSIG	POUNDS PER SQUARE INCH GAUGE
FT	FEET	RE	RELOCATE EXISTING
FLA	FULL LOAD AMPERAGE	RPM	REVOLUTIONS PER MINUTE
H	HEIGHT	SEER	SEASONAL ENERGY EFFICIENCY RATING
HP	HORSE POWER	TEMP	TEMPERATURE
IN	INCHES	TYP	TYPICAL
IN. WG	INCHES WATER GAUGE	V	VOLTS
kW	KILOWATTS	W	WIDTH

M. TODD ALBRITTON  
**ARCHITECT**  
 202 EAST MAIN STREET  
 THOMASTON, GEORGIA  
 30286  
 PH 770-550-3275  
 mtoddalbrintonarchitect@gmail.com



**NEW TIDAL WAVE AUTO SPA**  
 US 401  
 ROLESVILLE, NC

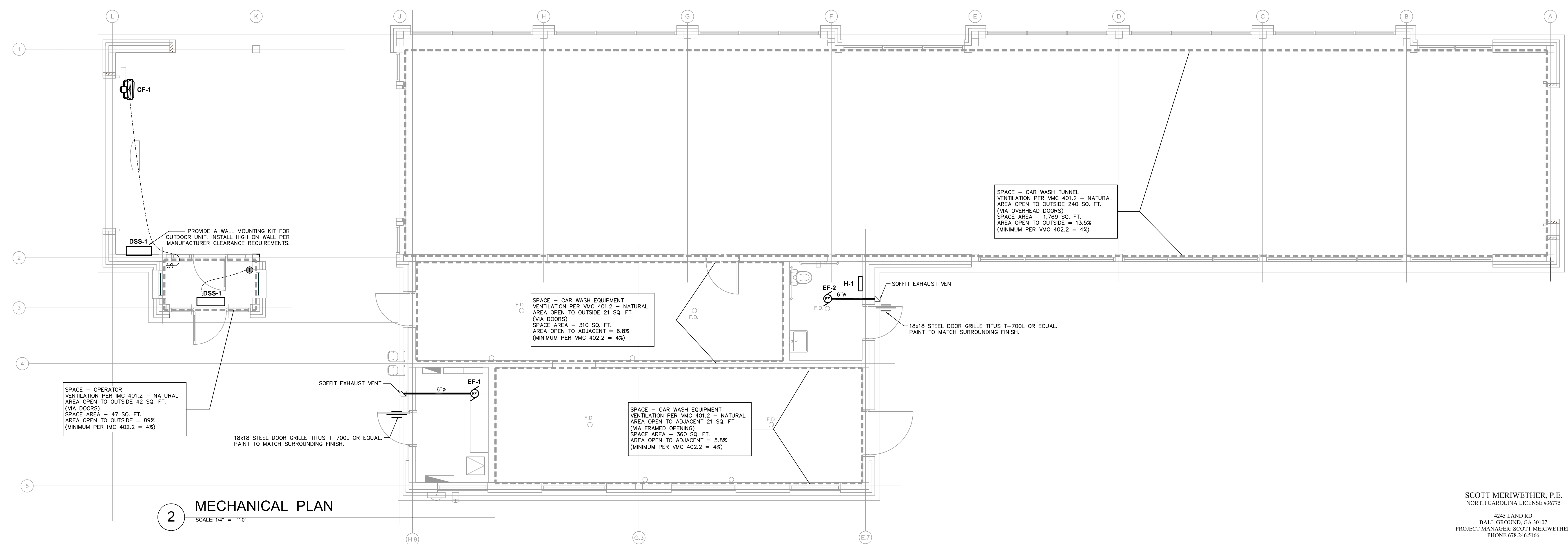
OWNER:  
**TIDAL WAVE AUTO SPA**  
 EAST THOMPSON STREET  
 THOMASTON GEORGIA  
 30286



MARK	DATE	DESCRIPTION
	12/20/23	PERMIT SET

**MECHANICAL PLAN**  
 PROJECT DATE: 12/20/2023  
 PROJECT NUMBER: 2023-0208  
 DRAWN BY: GJM

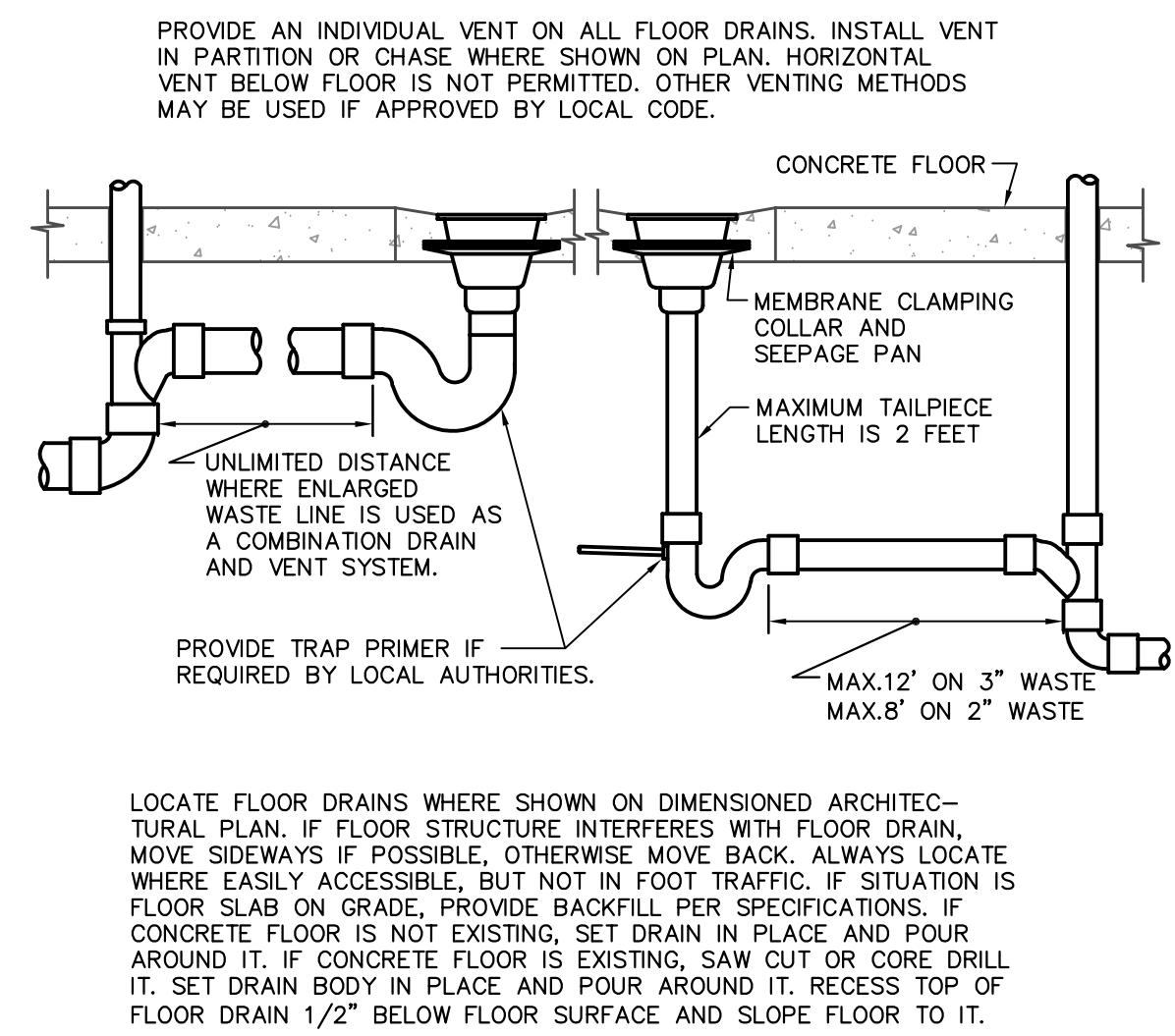
**M2.1**  
 SHEET 1 OF 1



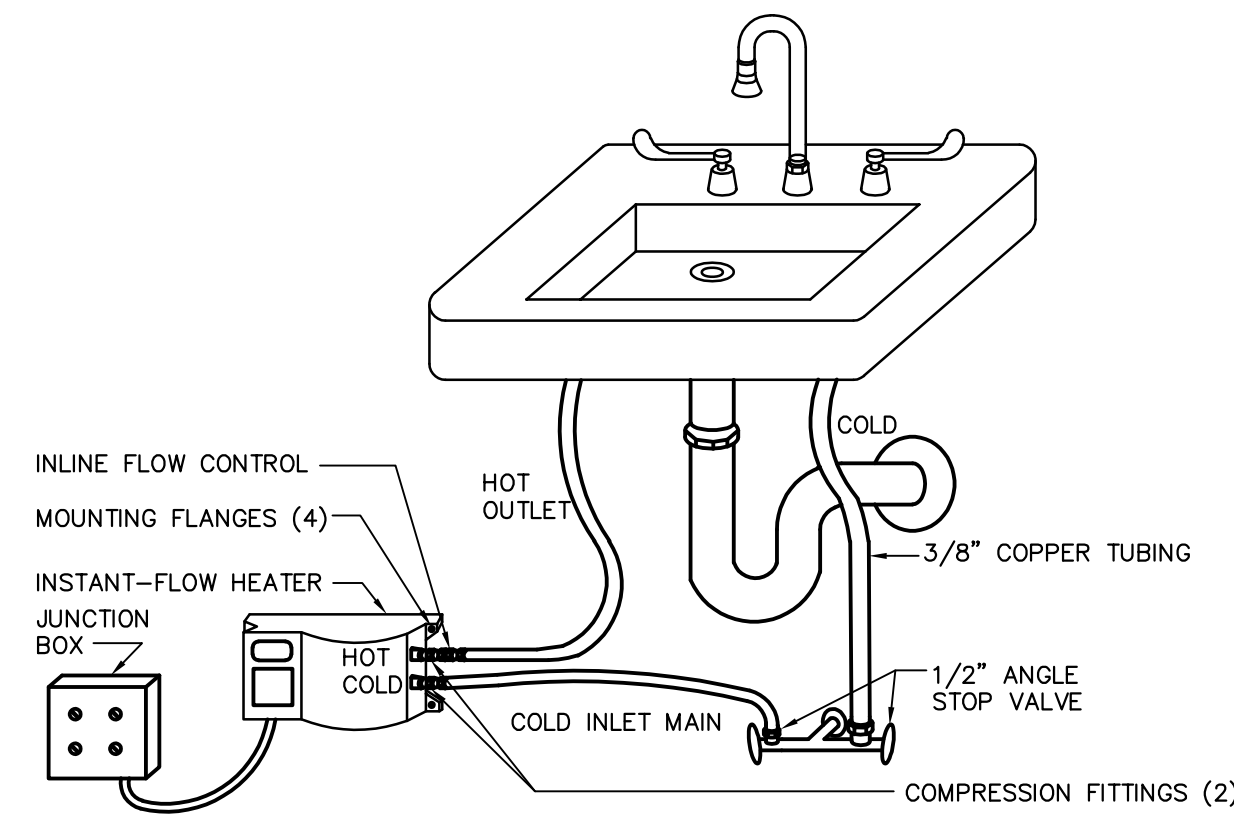
**2 MECHANICAL PLAN**  
 SCALE: 1/4" = 1'-0"

SCOTT MERIWETHER, P.E.  
 NORTH CAROLINA LICENSE #36775  
 4245 LAND RD  
 BALL GROUND, GA 30107  
 PROJECT MANAGER: SCOTT MERIWETHER  
 PHONE 678.246.5166

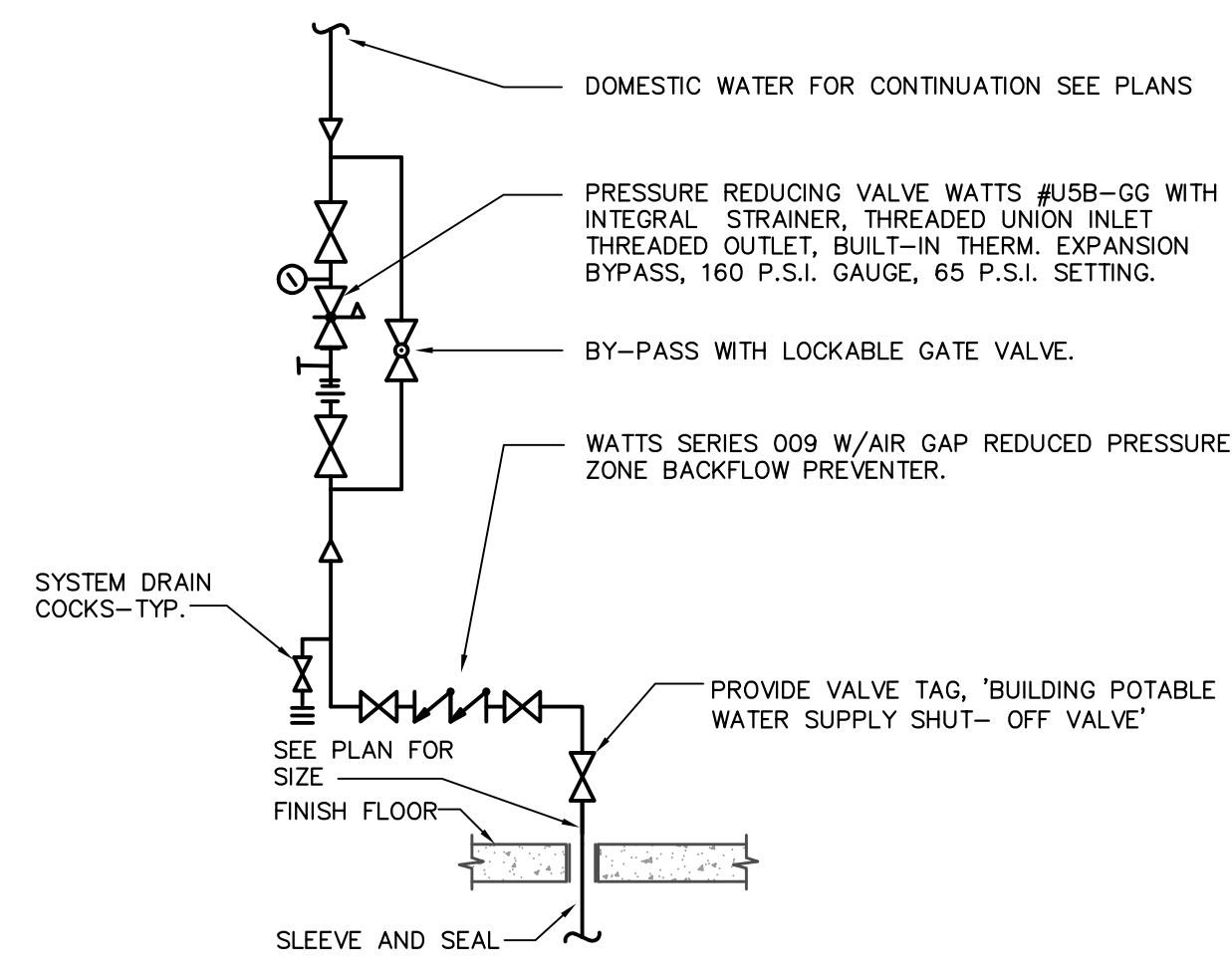
RELEASED FOR CONSTRUCTION



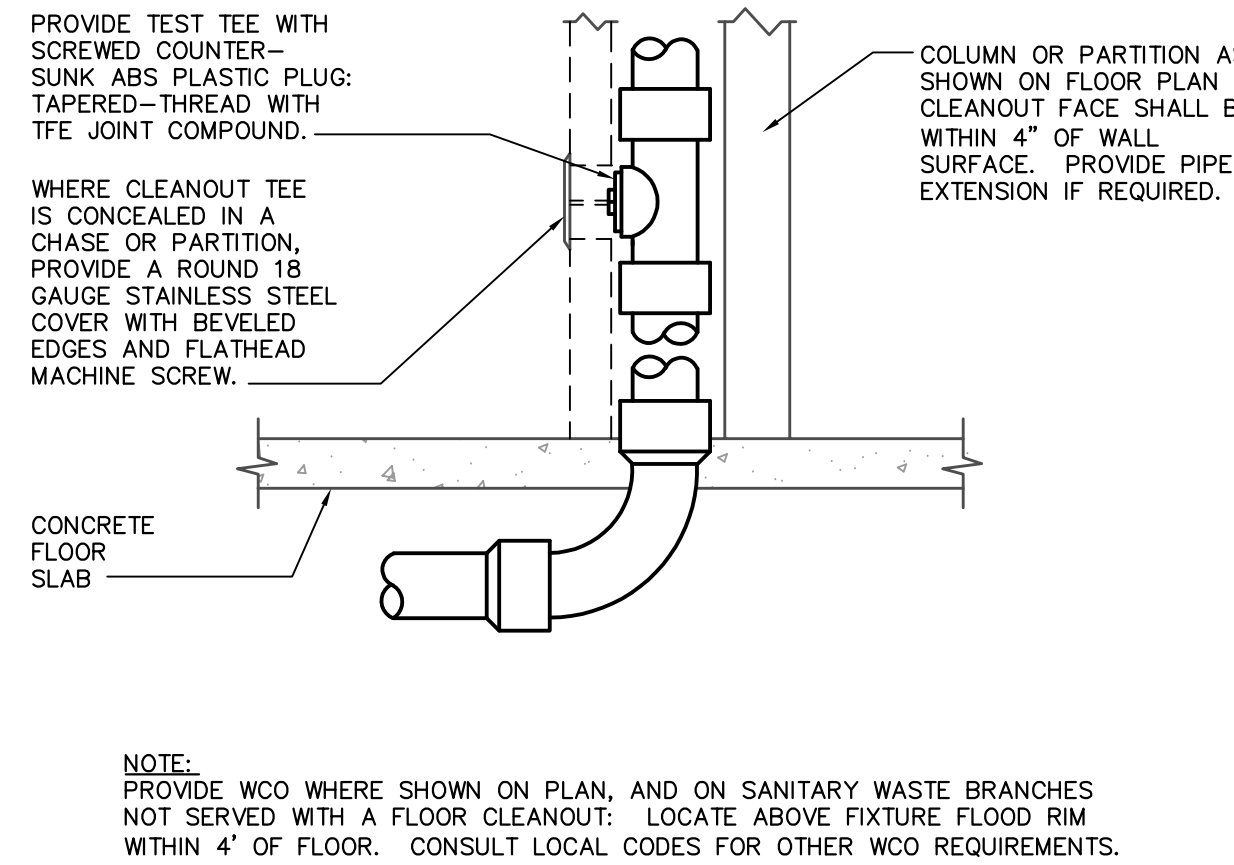
**FLOOR DRAIN DETAIL**  
NOT TO SCALE



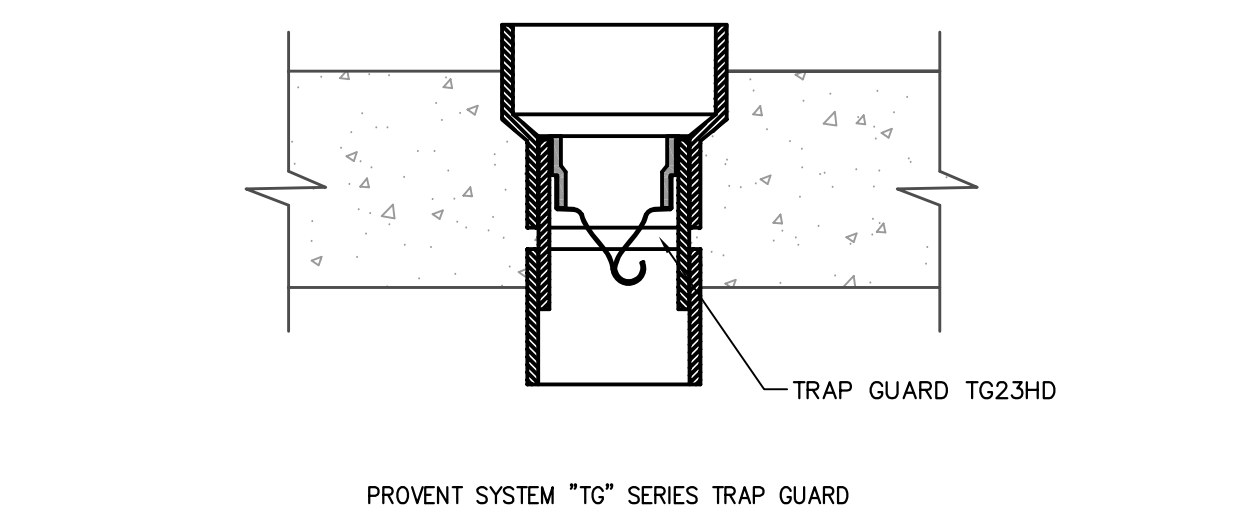
**INSTANTANEOUS WATER HEATER CONNECTIONS**  
NOT TO SCALE



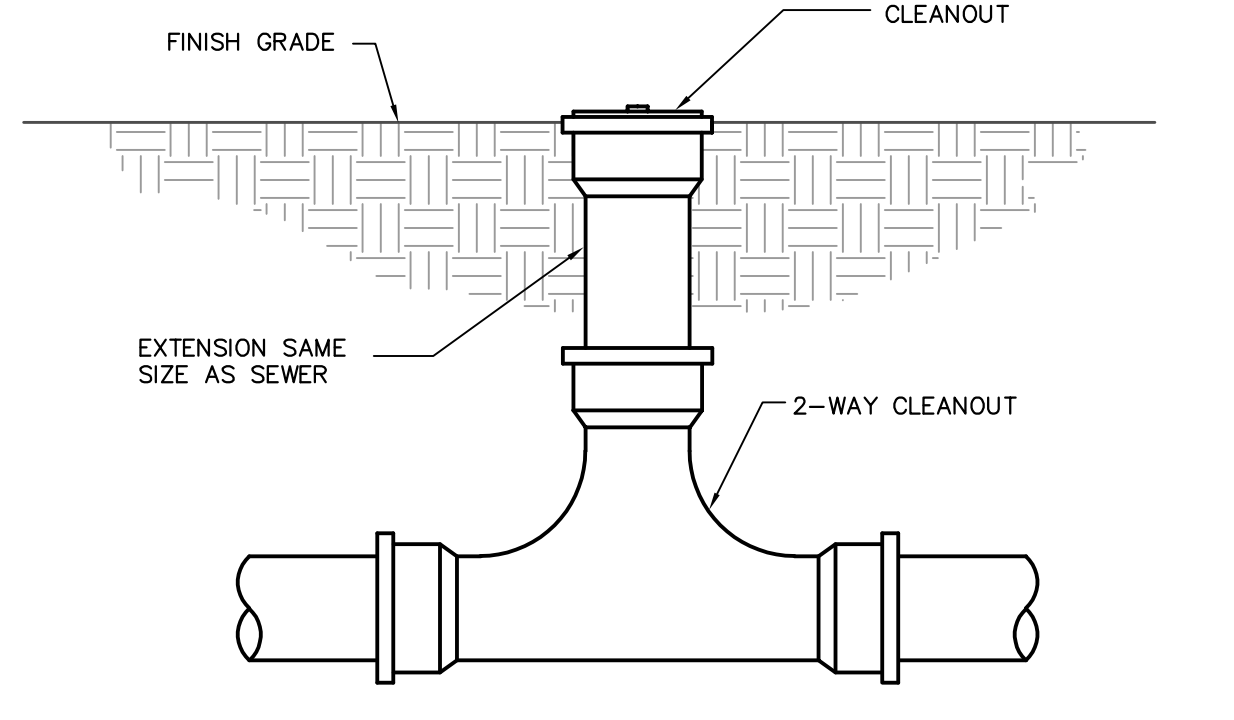
**WATER SERVICE ENTRANCE DETAIL**  
NOT TO SCALE



**WALL CLEANOUT DETAIL**  
NOT TO SCALE



**TRAP GUARD DETAIL**  
NOT TO SCALE



**EXTERIOR TWO-WAY CLEANOUT**  
NOT TO SCALE

**PLUMBING NOTES**

1. ALL WORKMANSHIP AND MATERIALS SHALL BE IN STRICT ACCORDANCE WITH THE INTERNATIONAL PLUMBING CODE (IPC) 2015, APPLICABLE LOCAL CODES, RULES AND ORDINANCES.
2. PLUMBING CONTRACTOR SHALL VISIT THE JOB SITE AND THOROUGHLY FAMILIARIZE HIMSELF WITH ALL EXISTING CONDITIONS.
3. ALL MATERIALS SHALL BE NEW.
4. ALL WORK SHALL BE PERFORMED BY A LICENSED PLUMBING CONTRACTOR IN A FIRST CLASS WORKMANLIKE MANNER. THE COMPLETED SYSTEM SHALL BE FULLY OPERATIVE. ALL EXCAVATION AND BACKFILL AS REQUIRED FOR THIS PHASE OF CONSTRUCTION SHALL BE A PART OF THIS CONTRACT.
5. REQUIRED INSURANCE SHALL BE PROVIDED BY THE PLUMBING CONTRACTOR FOR PROTECTION AGAINST PUBLIC LIABILITY AND PROPERTY DAMAGE FOR THE DURATION OF THE WORK.
6. PLUMBING CONTRACTOR SHALL SECURE AND PAY FOR ALL PERMITS, FEES, INSPECTION AND TESTS. PLUMBING CONTRACTOR TO OBTAIN PERMIT AND APPROVED SUBMITTALS PRIOR TO BEGINNING WORK OR ORDERING EQUIPMENT. PLUMBING CONTRACTOR MUST BE PRESENT FOR ALL INSPECTIONS OF HIS WORK BY REGULATORY AUTHORITIES.
7. DRAWINGS ARE DIAGRAMMATIC. DO NOT SCALE FOR THE EXACT LOCATION OF FIXTURES, PIPING, EQUIPMENT, ETC.
8. ALL WORK SHALL BE COORDINATED WITH OTHER TRADES TO AVOID INTERFERENCE WITH THE PROGRESS OF CONSTRUCTION. REPORT ANY DISCREPANCY TO ENGINEER/ARCHITECT PRIOR TO BEGINNING CONSTRUCTION.
9. VERIFY LOCATION, SIZE, DIRECTION OF FLOW AND INVERTS OF ALL EXISTING UTILITIES PRIOR TO BEGINNING OF CONSTRUCTION. ADVISE ENGINEER OF ANY DISCREPANCIES.
10. COORDINATE LOCATION OF ALL PIPING CONNECTIONS TO BUILDING WITH LOCAL UTILITY AND CIVIL ENGINEER. PROVIDE APPROVED BACKFLOW PREVENTION DEVICE, MAIN SHUT-OFF VALVE AND PRESSURE REDUCING VALVE AT WATER SERVICE.
11. WATER DISTRIBUTION PIPING ABOVE AND BELOW GROUND SHALL BE PEX-A EQUAL TO UPONOR "AQUAPEX" COORDINATE WITH LOCAL JURISDICTION FOR ADDITIONAL REQUIREMENTS. CPVC IS NOT APPROVED.
12. SOIL, WASTE, VENT AND RAINWATER PIPING SHALL BE CAST IRON OR PVC, WHERE CODE ALLOWS. PVC MAY NOT BE USED THRU RATED ASSEMBLIES OR IN FLENUMS.
13. ALL FIXTURES MUST BE PROVIDED WITH READILY ACCESSIBLE STOPS AND APPROPRIATELY MARKED ACCESS PANELS. COORDINATE LOCATIONS WITH GENERAL CONTRACTOR PRIOR TO INSTALLATION.
14. FURNISH AND INSTALL APPROVED WATER HAMMER ARRESTORS FOR ALL (GROUP) PLUMBING FIXTURES, SIZED AND LOCATED PER MANUFACTURER'S INSTALLATION INSTRUCTIONS AND PD-101 201.
15. DIELECTRIC COUPLINGS ARE REQUIRED BETWEEN ALL DISSIMILAR METAL IN PIPING AND EQUIPMENT CONNECTIONS.
16. ISOLATE COPPER PIPING FROM HANGER OR SUPPORTS WITH ISOLATOR PADS OR MATERIAL.
17. ALL FIRE RATED FLOOR AND WALL PENETRATIONS SHALL BE PROPERLY PROTECTED FROM FIRE, SMOKE AND WATER PENETRATION BY FILLING VOIDS BETWEEN PIPE AND WALL/FLOORS AS PART OF THE PLUMBER'S WORK.
18. PLUMBING CONTRACTOR SHALL GUARANTEE ALL MATERIALS AND WORKMANSHIP FREE FROM DEFECTS FOR A PERIOD OF NOT LESS THAN ONE (1) YEAR FROM DATE OF ACCEPTANCE BY OWNER. CORRECTION OF ANY DEFECTS SHALL BE COMPLETED WITHOUT ADDITIONAL CHARGE AND SHALL INCLUDE REPLACEMENT OR REPAIR OF ANY OTHER PHASE OF THE INSTALLATION WHICH MAY HAVE BEEN DAMAGED.
19. PROVIDE ACCESS PANELS FOR ALL CONCEALED VALVES AND ALL WATER HAMMER ARRESTORS. ACCESS PANELS IN RATED WALL MUST MAINTAIN THE SAME RATING AND MUST MATCH THE FINISH OF THE WALL IN WHICH IT IS INSTALLED.
20. PROVIDE COMBINATION COVER PLATE AND CLEANOUT PLUG OR ACCESS PANEL FOR ALL WALL CLEANOUTS FINISH TO MATCH FIXTURE TRIM.
21. NO WATER, SANITARY OR DRAINAGE PIPING PERMITTED IN ELECTRICAL ROOMS.
22. ALL CONTROL VALVES SHALL BE TAGGED AND MARKED. A REPRODUCIBLE DIAGRAM LOCATING ALL VALVES SHALL BE PROVIDED FOR OWNER/OPERATOR.
23. PROVIDE ANGLE STOPS ON ALL WATER SERVICE LINES TO FIXTURES FOR INDIVIDUAL SHUT-OFF.
24. WATER PIPING INSULATION SHALL BE ARMAFLEX OR EQUAL INSTALLED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS FOR ALL HOT WATER PIPING. WHERE DOMESTIC WATER TEMPERATURES CAN CAUSE SWEATING ALL COLD WATER PIPING SHALL BE INSULATED WITH ARMAFLEX INSULATION, THICKNESS AS PER IPC 2015.
25. PREVENT SERIES TRAP GUARDS MAY BE USED AS AN ALTERNATE TO TRAP PRIMERS WHERE ACCEPTABLE BY THE PLUMBING OFFICIAL AND LOCAL CODES. INSTALLATION SHALL BE PER MANUFACTURER'S RECOMMENDATIONS.

**PLUMBING SHEET INDEX**

SHEET#	DESCRIPTION
PD.1	PLUMBING NOTES AND DETAILS
P2.1	PLUMBING PLANS

**PLUMBING LEGEND**

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
AAV	AIR ADMITTANCE VALVE	—S—S	SANITARY SEWER PIPING
AFF	ABOVE FINISHED FLOOR	—V—V	VENT PIPING
CO	CLEAN OUT	—SD—SD	DOMESTIC COLD WATER PIPING
CW	DOMESTIC COLD WATER	—HD—HD	HOT WATER PIPING (110°)
HW	DOMESTIC HOT WATER	—SD—SD	HOT WATER RECIRCULATING PIPING
HWR	DOMESTIC HOT WATER RECIRCULATING	—CD—CD	CONDENSATE PIPING
SF	SQUARE FEET	—SD—SD	STORM DRAIN PIPING
VTR	VENT THRU ROOF	—OD—OD	OVERFLOW STORM DRAIN LINE
—G—G	GAS PIPING	—G—G	GAS PIPING
—H—H	CLEAN OUT	—H—H	CLEAN OUT
—P—P	P-TRAP	—P—P	P-TRAP
—E—E	CAPPED END OF PIPE	—E—E	CAPPED END OF PIPE
—O—O	PIPE RISE UP	—O—O	PIPE RISE UP
—D—D	PIPE DOWN OR DROP	—D—D	PIPE DOWN OR DROP
—C—C	POINT OF CONNECTION	—C—C	POINT OF CONNECTION
—R—R	DOWNSPOUT COVER	—R—R	DOWNSPOUT COVER

**SLOPE OF HORIZ. DRAINAGE PIPE**

SIZE (inches)	MINIMUM SLOPE (inch per foot)	POI DESIGNATION	SIoux CHIEF MODEL	FIXTURE UNITS	CONNECTION
2-1/2 or less	1/4	A	652-A	1-11	1/2"
3 to 6	1/8	B	653-B	12-32	3/4"
8 or larger	1/16	C	654-C	33-60	1"

TABLE 704.1 OF THE NPCC 2018 SIoux CHIEF SHOCK ARRESTORS APPROVED FOR INSTALLATION WITH NO ACCESS DOOR REQUIRED. CONFORMS TO ANSI/ASSE 1010 STANDARDS.

**PLUMBING SYSTEMS MATERIAL SCHEDULE**

SYSTEM	LINE TYPE	LOCATION	MATERIAL	INSULATION
SANITARY	—S—S	ABOVE AND UNDERGROUND	PVC	NONE
SAN. VENT	—V—V	ABOVE GROUND	PVC	NONE
COLD WATER	—SD—SD	ABOVE AND UNDERGROUND	PEX-A *TYPE "L" COPPER	—
HOT WATER	—HD—HD	ABOVE AND UNDERGROUND	*TYPE "L" COPPER	1" ARMAFLEX
STORM	—SD—SD	ABOVE AND UNDERGROUND	PVC	NONE
OVER. STORM	—OD—OD	ABOVE AND UNDERGROUND	PVC	NONE
GAS	—G—G	ABOVE AND UNDERGROUND	BLACK STEEL SCH. 40	NONE
CONDENSATE	—CD—CD	ABOVE AND UNDERGROUND	PVC	1" ARMAFLEX

\*PROVIDE TYPE "L" COPPER FOR WATER LINES IN RESTROOM. ALL OTHER WATER LINES SHALL BE PEX-A.

**PLUMBING EQUIPMENT & FIXTURE SCHEDULE**

HLAV	HANDICAP LAVATORY, AMERICAN STANDARD DECLY WALL HUNG LAVATORY MODEL #0321.075, WHITE FAUCET AMERICAN STANDARD #7385.003, SINGLE LEVER, MUST MEET ADA CODE. CONTRACTOR TO SUPPLY CONCEALED ARM SUPPORT CARRIER FOR MOUNTING OF LAVATORY.
HWC	WATER CLOSET, AMERICAN STANDARD CADET ELONGATED, FLOOR MOUNTED, WHITE, 1.28 GPF, OPEN FRONT SEAT, 16-1/2" HEIGHT, MUST MEET A.D.A. CODE. FLUSH LEVER SHALL BE LOCATED ON SIDE OF TANK AWAY FROM ADJACENT WALL.
FD	5"x5" SQUARE GRATE FLOOR DRAIN, WADE MODEL # 1103G5-TY. PROVIDE WITH TRAP PRIMER. COORDINATE FINISH WITH ARCHITECT.
HDF/DF	HANDICAP/DRINKING FOUNTAIN, ELKAY #RCTL8SC, BI-LEVEL, WALL MOUNTED, 8 GPH. PROVIDE WALL CARRIER, 115V, 4.5 A, MUST MEET A.D.A. CODE.
EYE WASH	EYEWASH - BRADLEY MODEL S19-220FW, WALL MOUNTED EYE WASH WITH PUSH HANDLE. PROVIDE FLOW CONTROL (SET TO 1.0 GPM).
CO	FINISHED FLOOR CLEANOUT, WADE MODEL # 6000-TY.
WCO	WALL CLEANOUT, WADE MODEL # 8590 TAPPED PLUG WITH 8480R.
HYD	WALL HYDRANT TO BE WOODFORD MODEL B65 WITH BOX, 3/4" STRAIGHT INLET CONNECTION, ANTI-SIPHON, FREEZELESS.
IWH-1	INSTANTANEOUS WATER HEATER - LAVADVANTAGE MODEL SPEX4208T EE, 208V, 18, 20A, 4.1KW, 0.2GPM ACTIVATION, POINT-OF-USE MICROPROCESSOR TEMPERATURE CONTROL. NO MIXING VALVE REQUIRED. SET TO 90°.
IWH-2	INSTANTANEOUS WATER HEATER - LAVADVANTAGE MODEL SPEX4208T, 208V, 18, 20A, 4.1KW, 0.2GPM ACTIVATION, POINT-OF-USE MICROPROCESSOR TEMPERATURE CONTROL. NO MIXING VALVE REQUIRED. SET TO 110°.

**GENERAL NOTES:**  
 1. FIXTURES SHALL BE AS SHOWN OR EQUAL.  
 2. ALL FIXTURE TRIM PACKAGES INCLUDING BUT NOT LIMITED TO TRAP, ANGLE STOP, FLUSH VALVE, SUPPLY TUBES, AND CLEANOUT COVER PLATES SHALL BE OF THE SAME FINISH AS THE ABOVE SPECIFIED FAUCET AND PER ARCHITECTURAL FINISH SCHEDULE.  
 3. ALL FIXTURES SHALL BE ROUGHED IN PER MANUFACTURER CUT SHEET TO MAINTAIN UNIFORMITY.

**M. TODD ALBRITTON**  
**ARCHITECT**  
202 EAST MAIN STREET  
THOMASTON, GEORGIA  
30286  
PH 770-550-3275  
mtoddalbritionarchitect@gmail.com

COPYRIGHT: THESE DESIGNS AND DRAWINGS AS INSTRUMENTS OF SERVICE ARE THE PROPERTY OF THE ARCHITECT AND SHALL NOT BE COPIED OR REUSED IN ANY FORM WITHOUT THE WRITTEN PERMISSION OF THE ARCHITECT. THESE DRAWINGS SHALL BE USED ON THE ORIGINAL PROJECT LOCATION ONLY AND SHALL NOT BE REUSED AT OTHER LOCATIONS.



**NEW TIDAL WAVE AUTO SPA**

US 401  
ROLESVILLE,  
NC

OWNER:  
**TIDAL WAVE AUTO SPA**  
EAST THOMPSON STREET  
THOMASTON GEORGIA  
30286



MARK	DATE	DESCRIPTION
	12/20/23	PERMIT SET

**PLUMBING NOTES**

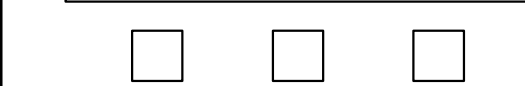
PROJECT DATE: 12/20/2023  
PROJECT NUMBER: 2023-0208  
DRAWN BY: GMF

**P0.1**

SCOTT MERIWETHER, P.E.  
NORTH CAROLINA LICENSE #36775  
4245 LAND RD  
BALL GROUND, GA 30107  
PROJECT MANAGER: SCOTT MERIWETHER  
PHONE 678.246.5166

RELEASED FOR CONSTRUCTION





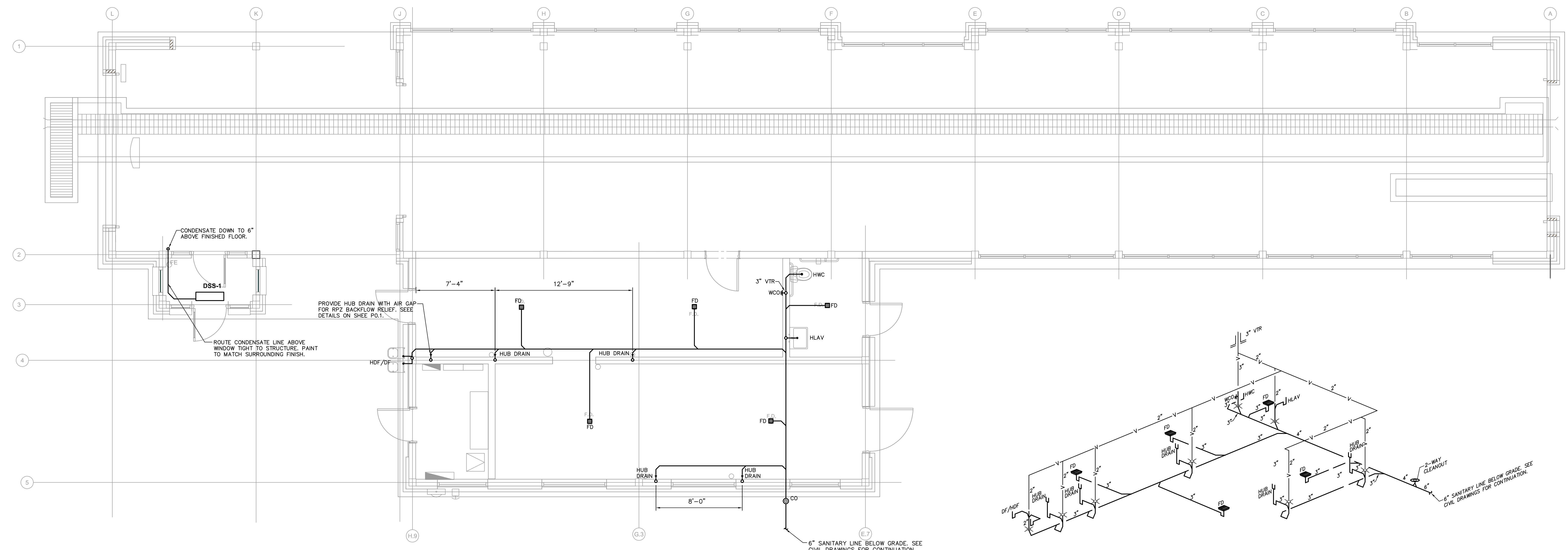
COPYRIGHT:  
THESE DESIGNS AND DRAWINGS AS INSTRUMENTS OF  
SERVICE ARE THE PROPERTY OF THE ARCHITECT AND  
SHALL NOT BE COPIED OR REUSED IN ANY FORM  
WITHOUT THE WRITTEN PERMISSION OF THE  
ARCHITECT.  
THESE DRAWINGS SHALL BE USED ONLY ON THE ORIGINAL  
PROJECT LOCATION ONLY AND SHALL NOT BE  
REUSED AT OTHER LOCATIONS.



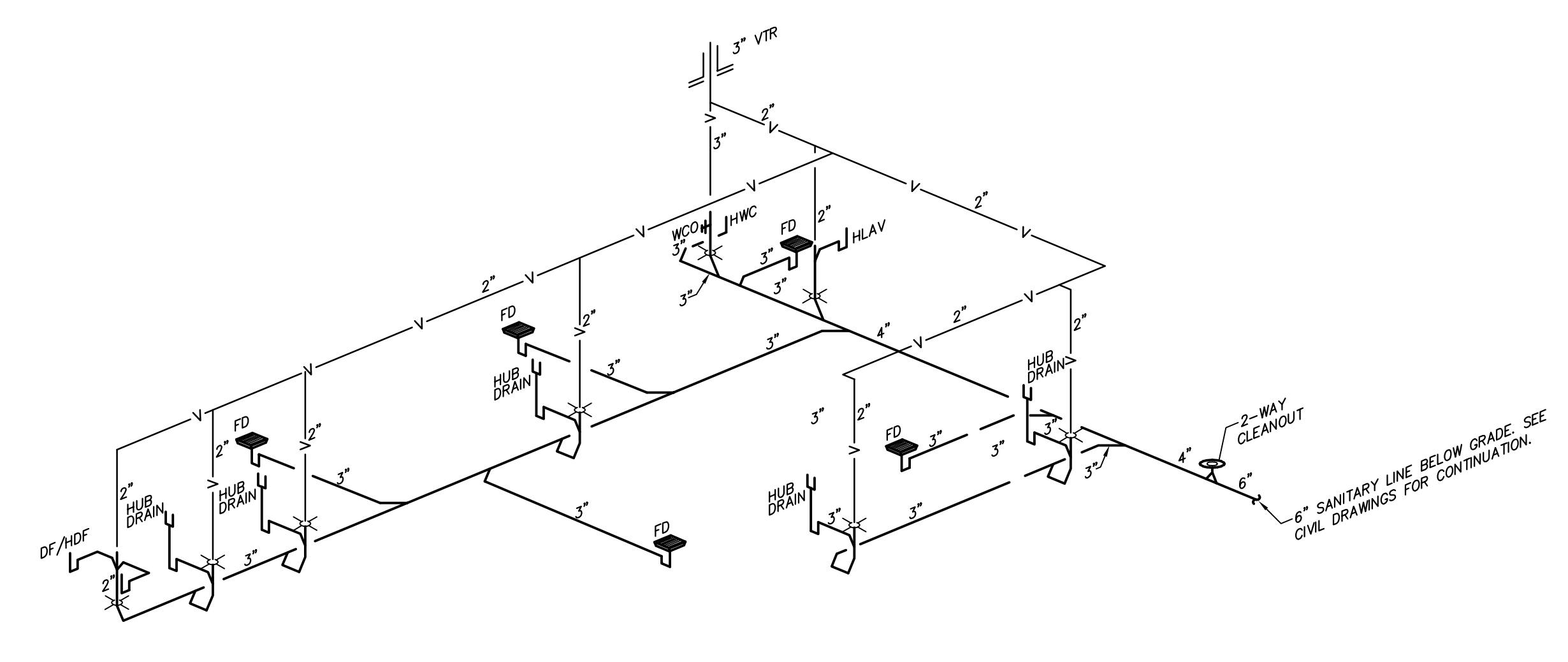
NEW TIDAL  
WAVE AUTO SPA

US 401  
ROLESVILLE,  
NC

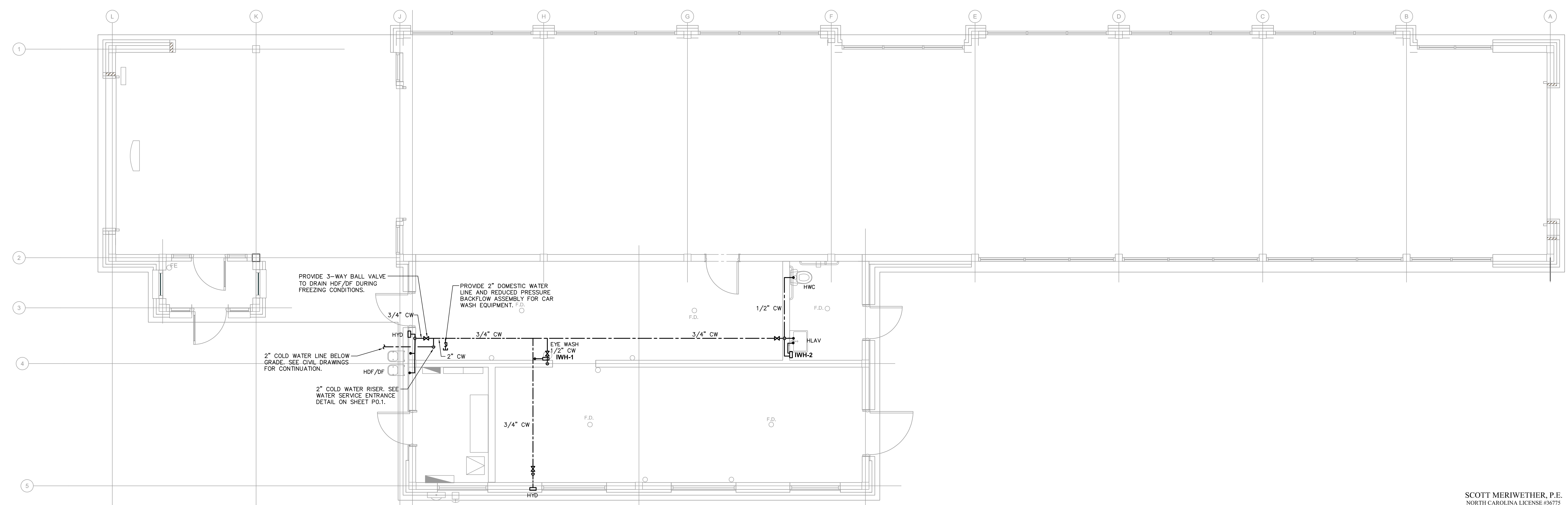
OWNER:  
**TIDAL WAVE  
AUTO SPA**  
EAST THOMPSON STREET  
THOMASTON GEORGIA  
30286



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



3 SANITARY ISOMETRIC  
SCALE: N.T.S.



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

SCOTT MERIWETHER, P.E.  
NORTH CAROLINA LICENSE #36775  
4245 LAND RD  
BALL GROUND, GA 30107  
PROJECT MANAGER: SCOTT MERIWETHER  
PHONE 678-246-5166

RELEASED FOR CONSTRUCTION

MARK	DATE	DESCRIPTION
	12/20/23	PERMIT SET

SHEET TITLE

PLUMBING PLANS

PROJECT DATE: 12/20/2023

PROJECT NUMBER: 2023-0208

DRAWN BY: GMF

P2.1



# Interior Lighting Compliance Certificate

## Project Information

Energy Code: 2015 IECC  
 Project Title: Tidal Wave Rolesville  
 Project Type: New Construction

Construction Site: US 401 Rolesville, NC  
 Owner/Agent:  
 Designer/Contractor:

## Additional Efficiency Package(s)

Credits: 1.0 Required 1.0 Proposed  
 Reduced Lighting Power, 1.0 credit

## Allowed Interior Lighting Power

A Area Category	B Floor Area (ft2)	C Allowed Watts / ft2	D Allowed Watts (B X C)
1-Car Wash (Workshop)	3000	1.07	3213
Total Allowed Watts =			3213

## Proposed Interior Lighting Power

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixtures	D Fixture Watt.	E (C X D)
<u>1-Car Wash (Workshop)</u>				
WS1: Other:	1	1	20	20
LF2: Other:	1	4	103	412
LF1: Other:	1	2	31	62
LD1: Other:	1	9	135	1215
Total Proposed Watts =				1709

**Interior Lighting PASSES: Design 47% better than code**

## Interior Lighting Compliance Statement

*Compliance Statement:* The proposed interior lighting design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed interior lighting systems have been designed to meet the 2015 IECC requirements in COMcheck Version 4.1.5.5 and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

\_\_\_\_\_  
Name - Title

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Date



# Mechanical Compliance Certificate

## Project Information

Energy Code: 2015 IECC  
Project Title: Tidal Wave Rolesville  
Location: Rolesville, North Carolina  
Climate Zone: 4a  
Project Type: New Construction

Construction Site: US 401 Rolesville, NC  
Owner/Agent:  
Designer/Contractor:

## Additional Efficiency Package(s)

Credits: 1.0 Required 1.0 Proposed  
Reduced Lighting Power, 1.0 credit

## Mechanical Systems List

Quantity	System Type & Description
1	HVAC System 1 (Single Zone): Split System Heat Pump Heating Mode: Capacity = 11 kBtu/h, Proposed Efficiency = 10.00 HSPF, Required Efficiency = 8.20 HSPF Cooling Mode: Capacity = 9 kBtu/h, Proposed Efficiency = 21.00 SEER, Required Efficiency: 14.00 SEER Fan System: None

## Mechanical Compliance Statement

*Compliance Statement:* The proposed mechanical design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed mechanical systems have been designed to meet the 2015 IECC requirements in COMcheck Version 4.1.5.5 and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

\_\_\_\_\_  
Name - Title

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Date



# Inspection Checklist

Energy Code: 2015 IECC

Requirements: 0.0% were addressed directly in the COMcheck software

Text in the "Comments/Assumptions" column is provided by the user in the COMcheck Requirements screen. For each requirement, the user certifies that a code requirement will be met and how that is documented, or that an exception is being claimed. Where compliance is itemized in a separate table, a reference to that table is provided.

Section # & Req.ID	Plan Review	Complies?	Comments/Assumptions
C103.2 [PR2] <sup>1</sup>	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the mechanical systems and equipment and document where exceptions to the standard are claimed. Load calculations per acceptable engineering standards and handbooks.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C103.2 [PR4] <sup>1</sup>	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the interior lighting and electrical systems and equipment and document where exceptions to the standard are claimed. Information provided should include interior lighting power calculations, wattage of bulbs and ballasts, transformers and control devices.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C406 [PR9] <sup>1</sup>	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the additional energy efficiency package options.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	

**Additional Comments/Assumptions:**

1	High Impact (Tier 1)	2	Medium Impact (Tier 2)	3	Low Impact (Tier 3)
---	----------------------	---	------------------------	---	---------------------

Section # & Req.ID	Footing / Foundation Inspection	Complies?	Comments/Assumptions
C403.2.4.5, C403.2.4.6 [FO9] <sup>3</sup>	Snow/ice melting system sensors for future connection to controls. Freeze protection systems have automatic controls installed.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	

**Additional Comments/Assumptions:**

1 High Impact (Tier 1)	2 Medium Impact (Tier 2)	3 Low Impact (Tier 3)
------------------------	--------------------------	-----------------------

Section # & Req.ID	Plumbing Rough-In Inspection	Complies?	Comments/Assumptions
C404.5, C404.5.1, C404.5.2 [PL6] <sup>3</sup>	Heated water supply piping conforms to pipe length and volume requirements. Refer to section details.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C404.6.3 [PL7] <sup>3</sup>	Pumps that circulate water between a heater and storage tank have controls that limit operation from startup to <= 5 minutes after end of heating cycle.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C404.7 [PL8] <sup>3</sup>	Water distribution system that pumps water from a heated-water supply pipe back to the heated-water source through a cold-water supply pipe is a demand recirculation water system. Pumps within this system have controls that start the pump upon receiving a signal from the action of a user of a fixture or appliance and limits the temperature of the water entering the cold-water piping to 104°F.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	

**Additional Comments/Assumptions:**

1 High Impact (Tier 1)	2 Medium Impact (Tier 2)	3 Low Impact (Tier 3)
------------------------	--------------------------	-----------------------

Section # & Req.ID	Mechanical Rough-In Inspection	Complies?	Comments/Assumptions
C402.2.6 [ME41] <sup>3</sup>	Thermally ineffective panel surfaces of sensible heating panels have insulation $\geq R-3.5$ .	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C403.2.12 .1 [ME65] <sup>3</sup>	HVAC fan systems at design conditions do not exceed allowable fan system motor nameplate hp or fan system bhp.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	See the Mechanical Systems list for values.
C403.2.12 .3 [ME117] <sup>2</sup>	Fans have efficiency grade (FEG) $\geq 67$ . The total efficiency of the fan at the design point of operation $\leq 15\%$ of maximum total efficiency of the fan.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C403.2.13 [ME71] <sup>2</sup>	Unenclosed spaces that are heated use only radiant heat.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C403.2.3 [ME55] <sup>2</sup>	HVAC equipment efficiency verified.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	See the Mechanical Systems list for values.
C403.2.6. 1 [ME59] <sup>1</sup>	Demand control ventilation provided for spaces $>500$ ft <sup>2</sup> and $>25$ people/1000 ft <sup>2</sup> occupant density and served by systems with air side economizer, auto modulating outside air damper control, or design airflow $>3,000$ cfm.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C403.2.6. 2 [ME115] <sup>3</sup>	Enclosed parking garage ventilation has automatic contaminant detection and capacity to stage or modulate fans to 50% or less of design capacity.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C403.2.7 [ME57] <sup>1</sup>	Exhaust air energy recovery on systems meeting Table C403.2.7(1) and C403.2.7(2).	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C403.2.8 [ME116] <sup>3</sup>	Kitchen exhaust systems comply with replacement air and conditioned supply air limitations, and satisfy hood rating requirements and maximum exhaust rate criteria.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C403.2.9 [ME60] <sup>2</sup>	HVAC ducts and plenums insulated. Where ducts or plenums are installed in or under a slab, verification may need to occur during Foundation Inspection.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C403.2.9 [ME10] <sup>2</sup>	Ducts and plenums sealed based on static pressure and location.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C403.2.9. 1.3 [ME11] <sup>3</sup>	Ductwork operating $>3$ in. water column requires air leakage testing.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	

1 High Impact (Tier 1)    2 Medium Impact (Tier 2)    3 Low Impact (Tier 3)

Section # & Req.ID	Mechanical Rough-In Inspection	Complies?	Comments/Assumptions
C403.4.2.3.2.1 [ME121] <sup>3</sup>	Closed-circuit cooling tower within heat pump loop have either automatic bypass valve or lower leakage positive closure dampers. Open-circuit tower within heat pump loop have automatic valve to bypass all heat pump water flow around the tower. Open- or closed-circuit cooling towers used in conjunction with a separate heat exchanger have heat loss by shutting down the circulation pump on the cooling tower loop.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C403.4.4.6 [ME110] <sup>3</sup>	Multiple zone VAV systems with DDC of individual zone boxes have static pressure setpoint reset controls.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	See the Mechanical Systems list for values.
C408.2.2.1 [ME53] <sup>3</sup>	Air outlets and zone terminal devices have means for air balancing.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C403.5, C403.5.1, C403.5.2 [ME123] <sup>3</sup>	Refrigerated display cases, walk-in coolers or walk-in freezers served by remote compressors and remote condensers not located in a condensing unit, have fan-powered condensers that comply with Sections C403.5.1 and refrigeration compressor systems that comply with C403.5.2..	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	

**Additional Comments/Assumptions:**

1 High Impact (Tier 1)	2 Medium Impact (Tier 2)	3 Low Impact (Tier 3)
------------------------	--------------------------	-----------------------



Section # & Req.ID	Rough-In Electrical Inspection	Complies?	Comments/Assumptions
C405.2.1 [EL15] <sup>1</sup>	Lighting controls installed to uniformly reduce the lighting load by at least 50%.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C405.2.1 [EL18] <sup>1</sup>	Occupancy sensors installed in required spaces.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C405.2.1, C405.2.2.3 [EL23] <sup>2</sup>	Independent lighting controls installed per approved lighting plans and all manual controls readily accessible and visible to occupants.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C405.2.2.1 [EL22] <sup>2</sup>	Automatic controls to shut off all building lighting installed in all buildings.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C405.2.3 [EL16] <sup>2</sup>	Daylight zones provided with individual controls that control the lights independent of general area lighting.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C405.2.3.1, C405.2.3.2 [EL20] <sup>1</sup>	Primary sidelighted areas are equipped with required lighting controls.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C405.2.3.1, C405.2.3.3 [EL21] <sup>1</sup>	Enclosed spaces with daylight area under skylights and rooftop monitors are equipped with required lighting controls.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C405.2.4 [EL4] <sup>1</sup>	Separate lighting control devices for specific uses installed per approved lighting plans.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C405.2.4 [EL8] <sup>1</sup>	Additional interior lighting power allowed for special functions per the approved lighting plans and is automatically controlled and separated from general lighting.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C405.3 [EL6] <sup>1</sup>	Exit signs do not exceed 5 watts per face.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	

**Additional Comments/Assumptions:**

1	High Impact (Tier 1)	2	Medium Impact (Tier 2)	3	Low Impact (Tier 3)
---	----------------------	---	------------------------	---	---------------------

Section # & Req.ID	Final Inspection	Complies?	Comments/Assumptions
C303.3, C408.2.5.2 [FI17] <sup>3</sup>	Furnished O&M instructions for systems and equipment to the building owner or designated representative.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C303.3, C408.2.5.3 [FI8] <sup>3</sup>	Furnished O&M manuals for HVAC systems within 90 days of system acceptance.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C403.2.2 [FI27] <sup>3</sup>	HVAC systems and equipment capacity does not exceed calculated loads.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C403.2.4.1 [FI47] <sup>3</sup>	Heating and cooling to each zone is controlled by a thermostat control. Minimum one humidity control device per installed humidification/dehumidification system.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C403.2.4.1.1 [FI42] <sup>3</sup>	Heat pump controls prevent supplemental electric resistance heat from coming on when not needed.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C403.2.4.1.2 [FI38] <sup>3</sup>	Thermostatic controls have a 5 °F deadband.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C403.2.4.1.3 [FI20] <sup>3</sup>	Temperature controls have setpoint overlap restrictions.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C403.2.4.2 [FI39] <sup>3</sup>	Each zone equipped with setback controls using automatic time clock or programmable control system.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C403.2.4.2.1, C403.2.4.2.2 [FI40] <sup>3</sup>	Automatic Controls: Setback to 55°F (heat) and 85°F (cool); 7-day clock, 2-hour occupant override, 10-hour backup	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C405.4.1 [FI18] <sup>1</sup>	Interior installed lamp and fixture lighting power is consistent with what is shown on the approved lighting plans, demonstrating proposed watts are less than or equal to allowed watts.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	See the Interior Lighting fixture schedule for values.
C408.2.1 [FI28] <sup>1</sup>	Commissioning plan developed by registered design professional or approved agency.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C408.2.3.1 [FI31] <sup>1</sup>	HVAC equipment has been tested to ensure proper operation.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	

1 High Impact (Tier 1)    2 Medium Impact (Tier 2)    3 Low Impact (Tier 3)

Section # & Req.ID	Final Inspection	Complies?	Comments/Assumptions
C408.2.3.2 [FI10] <sup>1</sup>	HVAC control systems have been tested to ensure proper operation, calibration and adjustment of controls.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C408.2.4 [FI29] <sup>1</sup>	Preliminary commissioning report completed and certified by registered design professional or approved agency.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C408.2.5.1 [FI7] <sup>3</sup>	Furnished HVAC as-built drawings submitted within 90 days of system acceptance.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C408.2.5.1 [FI16] <sup>3</sup>	Furnished as-built drawings for electric power systems within 90 days of system acceptance.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C408.2.5.3 [FI43] <sup>1</sup>	An air and/or hydronic system balancing report is provided for HVAC systems.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C408.2.5.4 [FI30] <sup>1</sup>	Final commissioning report due to building owner within 90 days of receipt of certificate of occupancy.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C408.3 [FI33] <sup>1</sup>	Lighting systems have been tested to ensure proper calibration, adjustment, programming, and operation.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	

**Additional Comments/Assumptions:**

1	High Impact (Tier 1)	2	Medium Impact (Tier 2)	3	Low Impact (Tier 3)
---	----------------------	---	------------------------	---	---------------------

