COMMON ABBREVIATIONS: ABOVE FINISH FLOOR AUTHORITY HAVING JURISDICTION AHJ/A.H.J. ALUM. ALUMINUM BOT. CAB. CL/CLOS. BOTTOM CABINET CLOSET CLG. COL. CONC. CEILING COLUMN CONCRETE CENTERLINE CMU CONT. CORR. CW CTRL DWG/DWGS CONCRETE MASONRY UNIT CONTINUOUS CORRUGATED COLD WATER CONTROL DRAWING/DRAWINGS EXTERIOR INSULATED FINISH ELEC ELECTRIC **ELEVATION** E.W./EW EACH WAY ELECTRIC WATER COOLER EXIST/EXIST'G EXISTING **EXPANSION JOINT** FIRE EXTIGUISHER FEC/F.E.C. FIRE EXTINGUSHER in CABINET FINISH FLOOR FFE/F.F.E. FINISH FLOOR ELEVATION FOUND. FOUNDATION FIBER REINFROCED PANEL GC/G.C. GENERAL CONSTRACTOR GROUND FAULT INTERUPT GYPSUM BOARD HANDICAP ITEM HORIZONTAL HEATING VENTILATING and COOLING HW/H.W. HOT WATER HOSE BIBB INSUL INSULATION JOINT JOIST JST/JOIST LAMINATE LINEAR FEET LAYER MAXIMUM METAL MINIMUM MANUFACTURER MR/M.R. MOISTURE RESISTANT NTS/N.T.S NOT TO SCALE NOT IN CONTRACT NO./# O.C. OPP HAND NUMBER ON CENTER OPPOSITE HAND PEMB PRE-ENGINEERED METAL BUILDING PRESSURE TREATED PLUMB PLUMBING PREFIN. PREFINISHED RESTROOM SUSPENDED ACOUSTICAL TILE assembly SF/S.F. STOREFRONT (or Square Foot in numerical contexts) STAINLESS STEEL STRUCTURE or STRUCTURAL TOP OF FOOTING TOP OF STEEL TOP OF MASONRY T.S. THRESH THRESHOLD TYP. QTY. **TYPICAL** QUANTITY UL/U.L. VERT. UNDERWRITERS LABORATORY VERTICAL WOOD WITHOUT 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:**

REFERENCE RELATED DOCUMENTS FOR ADDITIONAL ABBREVIATIONS USED.

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

COMMON SYMBOLS:

SHEET NUMBER — \ ### DETAIL NUMBER ———— ### SHEET NUMBER ————### ELEVATION MARK DOOR NUMBER. SEE DOOR SCHEDULE.

SPECIFIC NOTE DESIGNATION. SEE RELATED SCHEDULE.

WINDOW DESIGNATION.

SEE WINDOW SCHEDULE



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) NORTH CAROLINA Building Code NORTH CAROLINA Mechanical Code NORTH CAROLINA Plumbing Code NORTH CAROLINA Electical Code NORTH CAROLINA Energy Code NORTH CAROLINA Gas Code 2018 NORTH CAROLINA Fire Prevention Code

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

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,

OWNER:

TIDAL WAVE **AUTO SPA**

EAST THOMPSON STREET THOMASTON GEORGIA 30286

24 HOUR CONTACT DURING

SHEET INDEX - CONSULTANTS

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

Sheet Name

S2.0

STRUCTURAL

STRUCTURAL NOTES

SPECIAL INSPECTIONS

FOUNDATION/SLAB PLAN

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

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. Required Plumbing Fixtures: 1 water closet, 1 lavatory required by code, 1 drinking fountain **Provided Plumbing Fixtures:** 1 water closet, 1 lavatory required by code, 1 drinking fountain

Description of Work:

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 employeed 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)

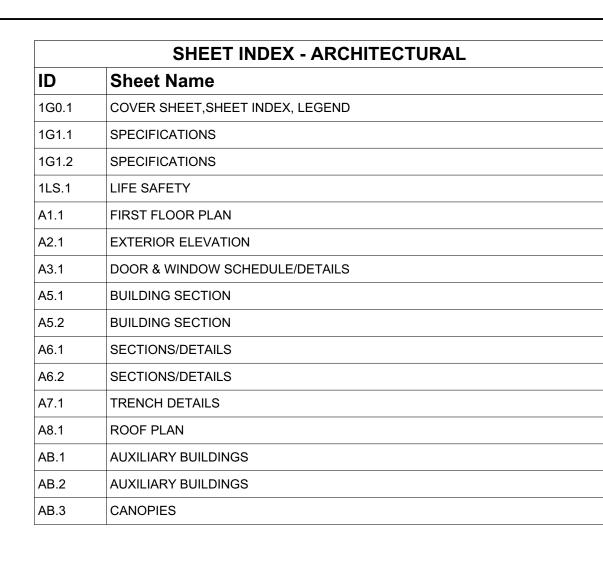
Vacuum Canopies Pay Canopies Pre-Fabricated Wood Trusses

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



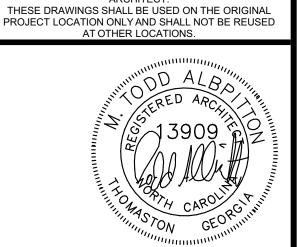
CIVIL DRAWINGS ARE ISSUED

BY OTHERS UNDER SEPARATE

SUBMITTAL

ROOF FRAMING TRUSS ELEVATIONS/DETAILS DETAILS/SECTIONS S3.0 DETAILS/SECTIONS PLUMBING NOTES, LEGENDS, DETAILS SANITARY & DOMESTIC WATER PLAN, RISER MECHANICAL MECHANICAL PLAN, SCHEDULES, NOTES, LEGENDS ELECTRICAL RISER DIAGRAM, NOTES, SCHEDULES SITE POWER PLAN SITE PHOTOMETRIC PLAN LIGHTING AND POWER PANELS

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



SHALL NOT BE COPIED OR REUSED IN ANY FORM

NEW TIDAL WAVE **AUTO SPA** US 401

ROLESVILLE, NC

TIDAL WAVE AUTO

EAST THOMPSON STREET THOMASTON GEORGIA



MARK DATE DESCRIPTION

SHEET TITLE

COVER SHEET, SHEET INDEX, LEGEND

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

Project Specifications:

01000 GENERA

1. ALL CONTRACTORS, SUBCONTRACTORS, AND VENDORS SHALL BE LICENSED AS PER STATE LAWS TO PERFORM

- THE RELATED CONSTRUCTION WORK. 2. CONTRACTORS THAT ARE PRICING OR UNDERTAKING WORK ON D.O.T. RIGHT-OF-WAYS SHALL BE SPECIFICALLY PRE-APPROVED BY THE D.O.T. TO PERFORM SUCH WORK. THE CONTRACTOR SHALL PROVIDE ALL
- BONDS REQUIRED TO PERFORM WORK ON RELATED RIGHT-A-WAY. 3. CONTRACTORS PRICING OR UNDERTAKING WORK ON UTILITY EASEMENTS SHALL BE SPECIFICALLY PRE-APPROVED BY THE RELATED UTILITY COMPANY TO PERFORM SUCH WORK. THE CONTRACTOR SHALL PROVIDE ALL BONDS REQUIRED TO PERFORM WORK ON RELATED RIGHT-A-WAY OR EASEMENT.

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. SUCH PERMITTING AGENCIES TO INCLUDE: STATE (N.O.I. & N.O.T.), FEDERAL AGENCIES (AS MAY BE APPLICABLE), LOCAL UTILITY DEPARTMENTS, LOCAL PLANNING AND ZONING DEPARTMENT, FIRE MARSHAL, AND OTHER AUTHORITIES AS
- 2. THE CONTRACTOR SHALL OBTAIN AND PAY FOR THE FOLLOWING: A. CONSTRUCTION PERMITS. B. ANY UTILITY SERVICE: TEMPORARY SERVICE, LOCATE, DISCONNECT, RELOCATION, CONNECTION/TAP,
- VAULTS, CONDUITS, METERS, TAP FEES, BORING, TRENCHING, PATCHING. BONDS OR OTHER INSURANCES AS REQUIRED BY STATE D.O.T. OR UTILITY COMPANY. D. IMPACT FEES AS MAY BE DESCRIBED HEREIN.
- 3. THE GENERAL CONTRACTOR SHALL COORDINATE AND INCLUDE ANY WORK RELATED TO PLAN REVIEW COMMENTS MADE BY PERMITTING OFFICIALS.

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
- 2. <u>ALL SUBCONTRACTORS AND SUPPLIERS SHALL REVIEW THE ENTIRE SET OF CONSTRUCTION DOCUMENTS</u> TO COORDINATE WORK OF THEIR PARTICULAR TRADE. SUCH PLAN REVIEW SHALL NOT BE LIMITED TO ONLY THE
- 3. IF ANY TWO OR MORE CONDITIONS REFLECT CONFLICTING DATA, DETAIL OR INSTRUCTION, THE MOST "STRICT" OR "COSTLY" ITEM SHALL PREVAIL IN TERMS OF CONTRACTOR PRICING. PRIOR TO START OF
- RELATED WORK, SUCH CONFLICTING ITEMS SHALL BE COORDINATED FOR RESOLUTION. 4. PLAN COPIES – THE CONTRACTOR SHALL PAY FOR ALL PLAN PRINTING AS NEEDED FOR PERMIT SUBMITTALS AND GENERAL WORK. DIGITAL (PDF) COPIES OF "BUILDING" PLANS CAN BE PROVIDED BY THE OWNER FOR
- 5. THE ARCHITECT AND/OR HIS ENGINEERS MAKE NO GUARANTEES ON THE ACCURACY OF SCALE OF ANY DIGITAL DRAWING FILES.
- 6. ALL BUILDING PLANS AND DIGITAL/CAD FILES REMAIN THE PROPERTY OF THE RELATED ARCHITECT OR ENGINEER. DO NOT REUSE PLANS ON ANY OTHER PROJECT OR LOCATION. 7. <u>DO NOT SCALE THE DRAWINGS</u> FOR ANY CRITICAL DIMENSIONS.
- 8. CONTACT THE CIVIL ENGINEER FOR INFORMATION REGARDING THE PROCESS AND RELATED COSTS FOR
- OBTAINING: CIVIL CUT/FILL CALCS, CIVIL POINTS FILES, AND CIVIL CAD FILES.
- 9. THE ARCHITECT ASSUMES THAT THE PERMIT PLAN REVIEW BY THE AUTHORITIES HAVING JURISDICTION (AHJ) IS THOROUGH, ACCURATE, AND COMPLETE. ANY CHANGES REQUESTED BY THE AHJ OR REQUIRED AS A RESULT OF REVIEWS/INSPECTIONS MADE BY AHJ AFTER PROJECT PERMITTING SHALL BE DEEMED A "LEGITIMATE" CHANGE ORDER. THE ARCHITECT OR ENGINEER WILL ASSUME NO RESPONSIBILITY FOR ANY COSTS RELATING TO SUCH CHANGES.
- a. OPERATING AND MAINTENANCE MANUALS FOR ANY LIFE SAFETY EQUIPMENT PRESENT INCLUDING: FIRE EXTINGUISHERS, FIRE ALARM, FIRE SPRINKLER, SMOKE DETECTION AND/OR HAZARDOUS GAS DETECTION.
- c. ORIGINAL COPY OF THE CERTIFICATE OF OCCUPANCY (OBTAINED AT SUBSTANTIAL COMPLETION). d. NOTARIZED LETTER FROM CONTRACTOR'S INSURER THAT INSURANCES WILL BE MAINTAINED FOR A
- PERIOD OF 1 YEAR BEYOND FINAL PAYMENT. e. COPIES OF "NOTICE OF INTENT" (NOI) AND NOTICE OF TERMINATION (NOT) AS APPROVED BY EPD.

01600 CONSTRUCTION PROCEDURES

USE ON THIS PROJECT ONLY.

- 1. PROVIDE QUALIFIED "FULL TIME" ON-SITE SUPERVISION OF ALL WORK.
- 2. COORDINATE MAJOR SUBCONTRACTORS AND SUPPLIERS UNDERTAKING RELATED WORK IN ORDER TO AVOID

AND ALL SAFETY MEASURES REQUIRED BY OSHA.

- 3. FURNISH ALL REQUIRED TEMPORARY FACILITIES AND SERVICES INCLUDING: WATER, POWER, DEBRIS DISPOSAL, TOILET FACILITIES, JOB TRAILER, MATERIALS STORAGE, HEATING, LIGHTING, BARRIERS/BARRICADES, ENVIRONMENTAL PROTECTION, CONSTRUCTION EQUIPMENT RENTALS, SECURITY,
- 4. PROVIDE 4'X8' PROFESSIONALLY PAINTED PROJECT SIGN WITH (2) P.T. 4X4 POSTS. WORDING: PROJECT NAME, OWNER'S NAME, ARCHITECT'S NAME, CONTRACTOR'S COMPANY INFORMATION. INSTALL AT FRONT OF JOBSITE IN LOCATION AS APPROVED BY OWNER AND LOCAL BUILDING OFFICIALS.
- 5. FURNISH, STORE, HANDLE, INSTALL, AND PROTECT ALL MATERIALS, ASSEMBLIES, AND EQUIPMENT IN ACCORDANCE WITH APPLICABLE CODES, REGULATIONS, TRADE STANDARDS, AND RELATED MANUFACTURER'S PUBLISHED INSTRUCTIONS AS PER CONDITIONS PRESENT.
- 6. THE CONTRACTOR IS RESPONSIBLE FOR THE SECURE STORAGE OF ALL EQUIPMENT. 7. THE CONTRACTOR IS RESPONSIBLE FOR THE OFF-LOADING OF ALL EQUIPMENT.
- 8. ADJUST ALL WORK AT COMPLETION. REPAIR OR REPLACE ANY DEFECTIVE WORK.
- 9. WHERE ANY PARTICULAR CODE, REGULATION, OR STANDARD IS REFERENCED TO BE MET, THE RELATED CONTRACTOR SHALL OBTAIN FULL COPIES OF SUCH CODE, REGULATION, OR STANDARD TO ENSURE THAT ALL RELATED WORK UNDERTAKEN IS IN COMPLIANCE.
- SHALL CONSTITUTE THE INSTALLER'S AND THE RELATED ITEM MANUFACTURER'S ACCEPTANCE OF ALL CONDITIONS PRESENT AS BEING CODE COMPLIANT, IN ACCORDANCE WITH STANDARD PRACTICES, AND COVERED BY ALL WARRANTIES AND GUARANTEES.

10. INSTALLATION OF AN ASSEMBLY, MATERIAL, OR FINISH OVER ANOTHER MATERIAL, SUPPORT, OR SUBSTRATE

- 11. WHERE A DETAIL IS SHOWN FOR ONE CONDITION, IT SHALL ALSO APPLY TO LIKE OR SIMILAR CONDITIONS
- 12. WHERE SPECIFICALLY INDICATED ON THE PLANS THAT AN ITEM IS "BY OWNER", "BY OWNER'S VENDOR", "BY OTHERS", OR "N.I.C." SUCH WORK SHALL BE "NOT IN CONTRACT"; HOWEVER, THE CONTRACTOR SHALL ASSIST THE OWNER IN COORDINATION OF THAT RELATED WORK AS IT RELATES TO "IN CONTRACT" WORK IN ORDER
- TO INTEGRATE ALL ITEMS INTO THE PROJECT WITH NO CONFLICT BETWEEN TRADES. 13. ALL CONSTRUCTION WORK TO MEET STATE CODE REQUIREMENTS FOR "SAFEGUARDS DURING
- 14. INSPECTIONS: APPLY FOR, SCHEDULE, OBTAIN, AND PAY FOR ALL REQUIRED INSPECTIONS. CORRECT ANY DEFICIENCIES IMMEDIATELY. PROVIDE COPIES OF ALL INSPECTION REPORTS TO THE OWNER. DO NOT COVER ANY ITEMS UNTIL RELATED INSPECTIONS ARE PASSED.
- 15. ALL BUILDING MATERIALS/PRODUCTS TO COMPLY WITH LOCAL, STATE AND FEDERAL REGULATIONS
- CONTROLLING USE OF VOLATILE ORGANIC COMPOUNDS (VOC's).
- 16. ALL MATERIALS SHALL BE "NEW" AND CODE COMPLIANT. NO USED OR SUBSTANDARD MATERIALS SHALL BE

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.
- SUCH PROCEDURES AND REQUIREMENTS MAY INCLUDE TYPICAL INSTALLATION GUIDES OF VARIOUS ASSEMBLIES EQUIPMENT DELIVERY DATES SPECIFIC INSURANCE REQUIREMENTS
- START-UP OF EQUIPMENT SECURITY AND STORAGE UTILITIES
- SCHEDULING OF WORK

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.
- a. THE "OWNER" SHALL HIRE AND PAY FOR THE CERTIFIED "THIRD PARTY SPECIAL INSPECTION AGENCY" TO PERFORM SUCH TESTING AND INSPECTIONS. b. THE "THIRD PARTY SPECIAL INSPECTIONS AGENCY" SHALL PERFORM ALL TESTING AND INSPECTIONS,
- NOTE ANY SUBSTANDARD WORK, AND REVERIFY THAT ALL SUBSTANDARD WORK HAS BEEN CORRECTED. THE "THIRD PARTY SPECIAL INSPECTIONS AGENCY" SHALL ISSUE ALL INTERIM AND FINAL INSPECTION REPORTS TO THE OWNER AND CONTRACTOR WITHIN 48 HOURS AFTER SUCH INSPECTIONS ARE PERFORMED.
- c. THE "CONTRACTOR" SHALL CONTACT THE SPECIAL INSPECTIONS AGENCY AND SCHEDULE ALL
- d. ANY WORK FAILING SPECIAL INSPECTIONS OR TESTING SHALL BE CORRECTED BY THE CONTRACTOR PRIOR TO PROCEEDING WITH RELATED WORK IN THE AREA.
- e. ANY COSTS ASSOCIATED WITH "RETESTS/REINSPECTION" OF ITEMS FAILING INITIA TESTING/INSPECTIONS SHALL BE PAID BY THE CONTRACTOR.
- f. THE CONTRACTOR SHALL OBTAIN COPIES OF ALL INTERIM AND FINAL SPECIAL INSPECTION REPORTS AND SUBMIT TO LOCAL BUILDING OFFICIALS PRIOR TO ISSUANCE OF CERTIFICATE OF OCCUPANCY.
- 2. PROVIDE THE FOLLOWING SPECIAL INSPECTIONS, TESTING, AND MONITORING AT STAGES, INTERVALS, AND FREQUENCY AS REQUIRED BY THE STATE BUILDING CODE (LATEST EDITION): a. SOIL BORINGS TO DETERMINE SUITABILITY OF SOILS TO SUPPORT NEW CONSTRUCTION.
- b. SUBGRADE COMPACTION TESTING AT BUILDING FOUNDATION AND SLABS.
- c. REBAR PLACEMENT INSPECTION. d. CONCRETE CORE TESTS FOR FOOTINGS, INTERIOR SLABS, CONCRETE WALLS.
- e. STRUCTURAL STEEL FRAMING INCLUDING BRACING, BOLTED CONNECTIONS, FIELD WELDED
- f. LOAD BEARING MASONRY WALLS OR MASONRY FOUNDATIONS. g. MOISTURE CONDITIONS AT: SUBGRADE OF SLABS LOCATED BELOW GRADE SUCH AS BASEMENT
- SLABS AND RECESSED SLAB AREAS h. MOISTURE CONDITIONS AT: AREAS TO RECEIVE RETAINING WALLS WITH INTERIOR SPACE ON ONE
- i. OTHER TESTS AS DESCRIBED HEREIN AND/OR REQUIRED BY THE AUTHORITY HAVING JURISDICTION.
- 3. OBTAIN ALL OTHER INSPECTIONS AS MAY BE REQUIRED BY LOCAL AND/OR STATE REGULATIONS AS PER TYPE OF CONSTRUCTION OR TYPE OF BUILDING OCCUPANCY. 4. HANDICAP ACCESSIBILITY IN <u>TEXAS</u> - PRIOR TO START OF THE PROJECT CONSTRUCTION, THE OWNER SHALL
- HIRE A CERTIFIED HANDICAP ACCESSIBILITY PROFESSIONAL TO REGISTER THE PROJECT WITH THE STATE AND PROVIDE AN INITIAL REVIEW OF THE PROJECT BUILDING AND SITE TO VERIFY HANDICAP ACCESSIBILITY. AT THE COMPLETION OF THE PROJECT, THE OWNER SHALL HIRE THE SAME PROFESSIONAL TO PERFORM A FINAL INSPECTION TO CERTIFY THAT HANDICAP ACCESSIBILITY STANDARDS ARE MET. FOLLOW ALL STATE GUIDELINES REGARDING THESE REVIEWS AND INSPECTIONS. THE CONTRACTOR SHALL INCORPORATE ALL COMMENTS FROM THE INITIAL PROJECT REVIEW AND FINAL INSPECTIONS INTO THE WORK. <u>THE CONTRACTOR</u> SHALL SCHEDULE FINAL HADICAP ACCESSIBILITY INSPECTION.

01800 DESIGN-BUILD AND/OR PRE-ENGINEERED ITEMS:

- 1. WHERE INDICATED IN THE PLANS AND SPECIFICATIONS, THE CONTRACTOR, SUBCONTRACTOR, OR RELATED VENDOR SHALL PROVIDE "DESIGN-BUILD" SERVICES AND/OR "PRE-ENGINEERED" ASSEMBLIES.
- 2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING CERTIFIED DESIGN SHOP DRAWINGS OF SUCH ASSEMBLIES PREPARED BY A STATE LICENSED PROFESSIONAL ENGINEER CERTIFIED TO PROVIDE RELATED 3. SUBMIT SUCH DESIGN DOCUMENTATION TO THE LOCAL BUILDING INSPECTIONS DEPARTMENT PRIOR TO THE
- START OF THE RELATED WORK. "DO NOT PROCEED" WITH RELATED WORK UNTIL SUCH DOCUMENTATION "IS APPROVED" BY THE AUTHORITY HAVING JURISDICTION. 4. ALL ASSEMBLIES SHALL BE DESIGNED TO MEET RELATED CODES.
- 5. ALL ASSEMBLIES SHALL ADEQUATELY SUPPORT ALL LOAD CONDITIONS PRESENT.

01900 CONSTRUCTION WASTE DISPOSAL

- 1. THE JOBSITE SHALL BE KEPT CLEAN AT ALL TIMES. DISPOSE OF ALL WASTE LEGALLY OFF-SITE.
- 3. DO NOT BURN ANY DEBRIS ON-SITE.
- 4. DO NOT BURY ANY DEBRIS ON-SITE.
- 5. ANY HAZARDOUS MATERIALS (INCLUDING LEAD-BASED PAINT, FUELS, OR ASBESTOS) SHALL BE HANDLED AND DISPOSED OF OFF-SITE AS PER EPA GUIDELINES. MAINTAIN ALL RECORDS OF DISPOSAL.
- 02000 DEMOLITION (IF REQUIRED)

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

- 2. ALL DEMOLITION WORK TO MEET IBC CHAPTER 33 SECTION 3303.
- 3. ALL DEMOLITION WORK SHALL MEET OSHA REGULATIONS.
- 4. PRIOR TO START OF ANY DEMOLITION OBTAIN ALL PERMITS AND INSPECTIONS. 5. UNDERTAKE ALL HAZARDOUS MATERIALS TESTING AS REQUIRED BY LOCAL/STATE REGULATION.
- IF ANY SUSPECT HAZARDOUS MATERIALS ARE ENCOUNTERED, THEN STOP WORK IN THAT AREA AND NOTIFY 6. ANY HVAC REFRIGERANT, LIQUID PROPANE, NATURAL GAS, OR OTHER HAZARDOUS GASES, LIQUIDS, OR OILS
- PRESENT SHALL BE "CAPTURED" AND LEGALLY DISPOSED OF AS PER EPA REGULATIONS. FIELD VERIFY ALL RELATED CONDITIONS PRIOR TO START 7. NO HAZARDOUS MATERIALS SHALL BE DISTURBED, REMOVED, OR DISPOSED OF WITHOUT FOLLOWING ALL
- EPA/EPD CODES AND REGULATIONS AS PER CONDITIONS PRESENT. 8. ADJACENT SURFACES WHICH ARE TO REMAIN SHALL BE PROTECTED FROM DAMAGE. ANY ITEMS WHICH ARE TO
- REMAIN IN PLACE BUT ARE DAMAGED BY THIS WORK SHALL BE PATCHED OR REPLACED TO MATCH. 9. PROVIDE ALL TEMPORARY WALLS, COVERS, SEALS, AND BARRIERS AS NEEDED TO PROTECT EXISTING BUILDING AREAS FROM INTRUSION OF DUST, WEATHER, VANDALS, OR PESTS. REPLACE/REPAIR TO MATCH (AT NO
- ADDITIONAL COST TO THE OWNER) ANY DAMAGE CAUSED BY SUCH INTRUSION WHICH IS ATTRIBUTED TO DEMOLITION OR NEW CONSTRUCTION WORK.
- 10. PROVIDE ALL SAW CUTTING, TRENCHING, EXCAVATION, AND PATCHING. 11. ITEMS NOTED TO BE "REUSED" SHALL BE CAREFULLY REMOVED, STORED, AND COVERED IN
- CLEAN/SAFE AREA. 12. ITEMS NOTED TO BE "TURNED OVER TO OWNER" SHALL BE DISCONNECTED, CAREFULLY REMOVED, CLEANED, AND DELIVERED IN GOOD WORKING ORDER TO THE OWNER'S STORAGE FACILITY.
- 13. LEGALLY DISPOSE OF ALL DEMOLITION DEBRIS OFF-SITE. MAINTAIN RECEIPT AND ACCEPTANCE OF WASTE/DEBRIS BY APPROVED FACILITY.
- 14. DO NOT BURN OR BURY ANY DEBRIS ON-SITE. 15. DO NOT CLOSE OR DISRUPT FLOW OF WALKS OR STREETS WITHOUT APPROVAL AND COORDINATION WITH OWNER AND LOCAL AUTHORITIES
- 16. PROVIDE ALL UTILITY DISCONNECTION, RELOCATION, AND RECONNECTION AS REQUIRED TO COMPLETE WORK. SCHEDULE SUCH WORK WITH OWNER AND RELATED UTILITY COMPANY.
- 17. MAINTAIN UTILITY SERVICE TO ALL AREAS REMAINING IN USE (PROTECT FROM DISRUPTION).

- 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.
- 19. MAINTAIN CODE COMPLIANT AND SAFE EGRESS FROM FACILITY AT ALL TIMES. 20. THE CONTRACTOR IS RESPONSIBLE FOR ALL MEANS AND METHODS REQUIRED TO PERFORM ALL WORK.
- 22. PROVIDE ALL SHORING, BRACING AND SUPPORT AS NEEDED TO PROTECT AND MAINTAIN STRUCTURAL INTEGRITY OF EXISTING STRUCTURE DURING DEMOLITION OR REWORK. SUCH SHORING, BRACING AND SUPPORTS SHALL BE DESIGNED BY A STATE LICENSED STRUCTURAL ENGINEER HIRED BY THE GENERAL CONTRACTOR.

21. PRIOR TO START OF DEMOLITION, FIELD VERIFY AND LOCATE LOAD BEARING ITEMS.

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. 2. ALL ENTITIES PRICING THIS PROJECT SHALL UNDERTAKE A THOROUGH 'SITE VISIT' TO VERIFY AND COORDINATE EXISTING CONDITIONS PRIOR TO SUBMITTING PRICING.
- 3. THE 'SITE VISIT' SHALL INCLUDE A DETAILED INSPECTION AND VERIFICATIONS OF EXISTING CONDITIONS AS MAY BE PRESENT AT:
- a. SITE
- b. SITE UTILITIES c. EXISTING BUILDING WALLS, STRUCTURE AND FENESTRATIONS
- e. ATTIC f. CRAWLSPACE

d. EXISTING ROOF AND ROOF MOUNTED EQUIPMENT

g. LOAD BEARING ASSEMBLIES

COORDINATION OF SUCH.

- h. AREA ABOVE SUSPENDED CEILINGS i. INTERIOR UTILITIES (PLUMBING, ELECTRICAL, HVAC, LOW VOLTAGE, PHONE/DATA, FIRE PROTECTION)
- j. INTERIOR FINISHES (FLOORS, WALLS, CEILINGS, DOORS, HARDWARE, TRIM, CASEWORK) k. CODE VIOLATIONS (ANY CODE VIOLATIONS TO BE BROUGHT TO THE ATTENTION OF OWNER UPON DISCOVERY)
- 1. INCORPORATE EXISTING CONDITIONS WITH THESE PLANS AND NEW WORK TO BE PERFORMEI 5. ANY CONFLICTS OF DISCREPANCIES BETWEEN EXISTING CONDITION AND THESE PLANS SHALL BE IMMEDIATELY
- BROUGHT TO THE ATTENTION OF THE ARCHITECT AND COORDINATED WITH NEW WORK. 6. INCLUDE ALL WORK REQUIRED AS NEEDED TO MEET DESIGN INTENT OF THESE DRAWINGS. 7. CONTACT OWNER TO VERIFY THE AVAILABILITY OF EXISTING BUILDING DETAILED DRAWINGS.

02200 SITE CONDITIONS

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

a. IF EXISTING BUILDING DRAWING ARE PRESENT, THEN PREFORM A DETAILED REVIEW AND

02300 TERMITE TREATMENT

- 1. PRETREAT ALL GRADE AREAS BENEATH FLOOR SLABS, AT FOUNDATIONS, AND AT CRAWLSPACES (IF PRESENT).
- 2. MATERIALS AND PROCEDURES FOR TERMITE TREATMENT SHALL BE APPROVED BY THE U.S. DEPARTMENT OF AGRICULTURE AND LOCAL ENVIRONMENTAL HEALTH DEPARTMENT.
- 3. MEET THE REQUIREMENTS OF THE STATE'S STRUCTURAL PEST CONTROL REGULATIONS. 4. MATERIALS TO BE WATER BASED EMULSIONS UNLESS OTHERWISE NOT ALLOWED BY RELATED GOVERNING REGULATIONS AS PER RELATED INSTALLATION CONDITIONS. IN SUCH CASED PROVIDE TERMITE TREATMENT MATERIALS AND INSTALL METHODS AS APPROVED BY THE RELATED AUTHORITIES AS PER CONDITIONS

WILL BE REPAIRED OR REPLACED AT THE EXPENSE OF THE ORIGINAL APPLICATOR."

5. HANDLE AND APPLY MATERIALS AS SUGGESTED BY THE U.S. DEPARTMENT OF AGRICULTURE. 6. APPLICATOR TO BE LICENSED, CERTIFIED, AND INSURED AS PER STATE/FEDERAL REGULATIONS. 7. PROVIDE A CERTIFICATE OF TREATMENT ALONG WITH A 5 YR. WARRANTY STARTING AT DATE OF SUBSTANTIAL COMPLETION. PROVIDE OWNER WITH ORIGINAL COPY OF CERTIFICATE AND WARRANTY. a. WARRANTY AND GUARANTEE SHALL STATE THAT "IF ANY TERMITE INFESTATION IS DISCOVERED WITHIN

THE WARRANTY PERIOD ALL AREAS WILL BE RETREATED AND ANY DAMAGE CAUSED BY INFESTATION

(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.

- REFERENCE THIRD-PARTY FOUNDATION DESIGN DRAWINGS BY LICENSED STRUCTURAL ENGINEER FOR ADDITIONAL
- UNITS TO BE CLEAN AND DRY AT INSTAL WITH NO DEFECTS. 2. CMU (CONCRETE MASONRY UNITS): SEE THIRD PARTY STRUCTURAL DRAWINGS BY LICENSED STRUCTURAL
- 3. BRICK UNITS SHALL CONFORM TO ASTM C216, GRADE SW.
- a. 3 5/8" W X 2 1/4" H X 7 5/8" L FACE BRICK.
- b. BRICK COLOR AND TEXTURE AS SELECTED BY OWNER
- c. UNITS TO BE 'NON-EFFLORESCED' TYPE d. PROVIDE SPECIAL SHAPE UNITS AS NEEDED TO MEET DESIGN INTENT.
- e. MORTAR SHALL CONFORM TO ASTM C270, ASTM C150. COLOR AS SPECIFIED HEREIN OR AS SELECTED BY
- 4. SPLIT FACE BLOCK UNITS SHALL CONFORM TO ASTM C90, ASTM C129,ASTM C140, ASTM C-744, ASTM C55
- a. 3 5/8" or 7 5/8" W X 7 5/8" H X 15 5/8" L UNITS. See plans for W (width) b. COLOR AND TEXTURE AS SELECTED BY OWNER
- c. MASONRY UNITS AND MORTAR TO HAVE INTEGRAL WATER REPELLENT. d. UNITS TO BE 'NON-EFFLORESCED' TYPE
- e. PROVIDE SPECIAL SHAPE UNITS AS NEEDED TO MEET DESIGN INTENT. f. MORTAR SHALL CONFORM TO ASTM C270, ASTM C150. COLOR – AS SPECIFIED HEREIN OR AS SELECTED BY
- THRU-WALL FLASHING ASSEMBLIES:
- a. PERM-A-BARRIER FLASHING BY GRACE OR EQUAL LOCATE CONTINUOUS ALONG BASE OF VENEER WALLS AT DOOR HEADS AND THRESHOLDS, AT WINDOWS HEADS AND SILLS, AT PARAPET CAPS, AND AT OTHER LOCATION INDICATED HEREIN.
- 40 MIL POLYETHYLENE SELF ADHERING MEMBRANE WITH MANUFACTURER'S STANDARD CORNER PIECES,
- MORTAR NET ASSEMBLY AS APPROVED BY MEMBRANE MANUFACTURER. WEEPS - 1/4 " ROUND POLY TUBING LOCATED AT 32" O.C. ALONG BASE OF THRU WALL FLASHING. c. INSTALL AS PER MANUFACTURER'S PUBLISHED INSTRUCTIONS AND DETAILS AS PER CONDITIONS PRESENT.
- d. PROTECT FROM DAMAGE BY OTHER TRADES e. PROVIDE 5 YEAR WARRANTY COVERING FLASHING MATERIALS.
- 6. MASONRY DAMPROOFING (AT EXTERIOR MULTI-WYTHE: MASONRY OR C.I.P CONCRETE WALLS) a. PROVIDE BITUMNOUS DAMPPROOFING AT EXTERIOR FACE OF THE INTERIOR WYTHE AT EXTERIOR MULTI-WYTHE: MASONRY OR C.I.P. WALL ASSEMBLIES.
- b. PRODUCTS: BASF MASTERSEAL 615 OR EQUAL. COMPLY WITH VOC REGULATIONS. COMPLY WITH APPLIABLE REGULATIONS CONTROLLING VOLATILE ORGANIC COMPOUND (VOC) LEVELS. PREPARE SURFACES AND INSTALL AS PER MANUFACTURER'S INSTRUCTIONS. MASONRY REINFORCING
- a. VERTICAL CELL REINFORCING SEE STRUCTURAL DRAWINGS BY OTHERS. b. SINGLE MASONRY WALLS – SEE STRUCTURAL DRAWINGS BY OTHERS. c. MASONRY VENEER ANCHORS - PRODUCTS TO BE APPROVED BY THE TIE MFR FOR RELATED INSTALLATION CONDITIONS.

SECURE TO APPROVED STRUCTURAL WALL ELEMENTS WITH APPROVED CORROSIVE RESISTANT

FASTENERS AS SPECIFIED BY THE MASONRY TIE MANUFACTURER AS PER CONDITIONS PRESENT. d. LINTEL/HEADER STRUCTURE – SEE STRUCTURAL DRAWINGS BY OTHERS.

LOCATE A MINIMUM OF 16" O.C. HORIZONTALLY AND 16" O.C. VERTICALLY.

- 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..
- CUTTING-IN AFTER THE MASONRY INSTALL SHOULD BE AVOIDED. b. LAY UNITS IN RUNNING BOND PATTERN UNLESS INDICATED OTHERWISE ELSEWHERE. LAY IN UNIFORM, EVEN, LEVEL, PLUM, AND TRUE. ALIGN JOINTS AS PER BOND PATTERN.
- JOINTS TO BE TOOLED "U" JOINT UNLESS INDICATED OTHERWISE ELSEWHERE. c. DO NOT LAY MASONRY WHEN TEMPERATURE IS BELOW 45 DEGREES F. UNLESS TEMPERATURE IS RISING. AT NO TIME LAY MASONRY WHEN TEMPERATURE IS BELOW 40 DEGREES F.
- d. COVER TOPS OF WALLS AT ENDS OF EACH DAY WITH NON-STAINING MATERIAL AS REQUIRED TO PREVENT INFILTRATION OF WEATHER/WATER INTO MASONRY AND CAVITIES. e. (3) STACKED BRICKS AND (3) 3/8" JOINTS TO EQUAL 8" H.
- f. LOCATE CONTROL JOINTS AND EXPANSION JOINTS AS RECOMMENDED BY NCMA (1:5:1 MAX RATIO OF PANEL SIZE OR 25 FEET MAX HORIZONTAL SPACING). UNLESS NOTED OTHERWISE, ALIGN CMU JOINTS BEARING ON SLABS WITH THE SLAB JOINTS OR PROVIDE CONTINUOUS BOND BEAM AT THE FIRST COURSE OF BLOCK ACROSS FLOOR JOINT AND FOR 4' MINIMUM EACH SIDE OF SLAB JOINT. BOND BEAM REINFORCING AT FRAMED FLOORS AND FLOOR LEVEL SHALL BE
- CONTINUOUS THROUGH THE WALL CONTROL JOINT. LOCATE JOINTS SO AS TO PROVIDE CONSISTENT, SYMMETRICAL APPEARANCE. g. PROVIDE ALL TEMPORARY SHORING BRACING, LIFTS, AND SCAFFOLDING NEEDED FOR SAFE AND
- PROFESSIONAL INSTALL. h. REPOINT DEFECTIVE MASONRY JOINTS

(1) CMU AND (1) 3/8 " JOINT TO EQUAL 8" H.

i. CLEAN MASONRY AT COMPLETION USING MATERIALS AND METHODS AS APPROVED BY MASONRY MANUFACTURER PER CONDITIONS PRESENT. PROTECT SURROUNDING ITEMS FROM STAINING OR DAMAGE. PRETEST CLEANING MATERIALS AND METHODS IN SMALL INCONSPICUOUS AREA PRIOR TO

04300 STONE (MANUFACTURED)

- BUCKS COUNTY LEDGESTONE BY CENTURION
- BUCKS COUNTY LEDGE FLATS = SJ1007/150-701-25S BUCKS COUNTY LEDGE CORNERS = SJ1007/150-701-25C
- CENTURION CONTACT (770-560-5608, 770-304-1779, SJONESCENTURION@GMAIL.COM) 2. FURNISH, STORE, PREP, INSTALL, CLEAN, AND PROTECT AS PER STONE MANUFACTURER'S INSTRUCTIONS AS
- PER CONDITIONS PRESENT. 3. PLAN FOR AND MAINTAIN CLEARANCES FROM GRADE, PAVED SURFACES, DISSIMILAR MATERIALS AND
- ROOFED SURFACES AS RECOMMENDED BY THE MANUFACTURER. 4. PROVIDE ALL SPECIAL SHAPES. i.e.: CAPS, CORNERS, LINTELS, SILLS, BOX STONES, & WATERTABLES COURSES.
- 5. BLEND MATERIALS FROM MULTIPLE BOXES TO PROVIDE ATTRACTIVE INSTALLATION. 6. MORTAR TYPE SHALL BE AS RECOMMENDED BY THE STONE MFR..PROVIDE MORTAR JOINTS OF TYPE AND THICKNESS AS RECOMMENDED BY THE MFR..MORTAR COLOR – MATCH STONE COLOR. MAINTAIN LEVEL AND
- 7. PREPARE SUBSTRATE AS RECOMMENDED BY THE STONE MFR..ANY INSTALLATION OF THE ASSEMBLY OVER A SUBSTRATE SHALL INDICATE THE INSTALLER'S ACCEPTANCE OF THE SUBSTRATE CONDITIONS AS BEING CODE COMPLIANT AND APPROVED BY THE STONE MANUFACTURER FOR A COMPLETE WARRANTED INSTALL.
- 8. PROVIDE ALL REQUIRED TIES, ANCHORS, BRACKETS, LATH, MOISTURE BARRIERS, CORROSIVE RESISTANT FLASHING AND OTHER ACCESSORIES AS RECOMMENDED BY THE STONE MFR. FOR A COMPLETE WARRANTED INSTALLATION AS PER CONDITIONS PRESENT.
- 9. INSTALLATION OVER WOOD OR METAL STUD WALL SHALL BE: STONE OVER SETTING BED OVER SCRATCH COAT OVER GALV LATH OVER (2) LAYERS MOISTURE BARRIER OVER APPROVED SHEATHING. ALL MATERIALS, PREPARATIONS, AND INSTALLATION SHALL BE APPROVED BY THE STONE MANUFACTURER.
- 10. INSTALLATION OVER CMU SHALL BE STONE OVER SCRATCH COAT OVER UNPAINTED CMU; HOWEVER, PROVIDE A LATH ASSEMBLY WHERE RECOMMENDED BY THE STONE MANUFACTURER. ALL MATERIALS, PREPARATIONS, AND INSTALLATION SHALL BE AS APPROVED BY THE STONE MFR.

12. INSTALL CORROSIVE RESISTANT FLASHING AT ALL PENETRATIONS AND TERMINATIONS OF STONE. 13. PROVIDE MANUFACTURER'S STANDARD WARRANTY.

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

05000 STRUCTURAL STEEL

- 05500 MISCELLANEOUS STEEL
- 1. GENERAL MISCELLANEOUS STEEL NOTES a. WELD ALL CONNECTIONS GRIND SMOOTH.
- b. ALL CONNECTIONS SHALL BE SUFFICIENT TO TRANSFER ALL LOADING DOWN THROUGH ASSEMBLY TO ADEQUATE SUBSTRATE/SUPPORT/FOUNDATION.
- c. ALL ITEMS TO BE SHOP PRIMED. d. CONSTRUCT BASED UPON OWNER APPROVED SHOP DRAWINGS PREPARED BY THE ASSEMBLY
- MANUFACTURER AND/OR INSTALLER. e. THE INSTALLER AND MANUFACTURER SHALL ASSUME FULL RESPONSIBILITY OF THE STRUCTURAL INTEGRITY OF THE RELATED ASSEMBLY.
- f. ALL ASSEMBLIES SHALL MEET STATE BUILDING CODES. 2. LINTEL ANGLES
- a. SEE STRUCTURAL DRAWINGS BY OTHERS. ALL TO BE SIZED BY LICENSED STRUCTUAL ENGINEER.
- a. RAILINGS, POSTS, AND SUPPORTS TO MEET IBC SECTION 1009 THRU 101.3. b. HANDRAIL, GUARDRAIL, AND WALL MOUNTED RAIL ASSEMBLIES SHALL RESIST A 50 LB. LOAD AND A 200

ITS SUPPORTS TO THE STRUCTURE WITHOUT FAILURE OF ANY COMPONENTS OR CONNECTIONS.

LB. CONCENTRATED LOAD APPLIED IN ANY DIRECTION AT THE TOP AND TRANSFER THIS LOAD THROUGH

- c. INSTALLER TO FIELD TEST RAILING AT INSTALL. ANY COMPONENTS FOUND TO BE SUBSTANDARD SHALL
- d. RETURN HANDRAILS TO WALL AT ENDS IF NOT PART OF A CONTINUOUS RUN BETWEEN FLIGHTS. e. LEVEL HEIGHTS OVER 30"H: SHALL HAVE 42"H GUARDRAILS WITH PICKETS AT 4" O.C. AND HANDRAIL AT
- 36"H. NO GAPS IN RAILING ASSEMBLY TO BE OVER 4" WIDE. f. LEVELS 30"H AND UNDER: SHALL HAVE 36" HIGH STANDARD 3 RAIL SYSTEM. NO PICKETS REQUIRED. g. RAILINGS SHALL BE CONTINUOUS ON BOTH SIDES OF STAIR AND RAMP.
- h. POSTS 1 ½" O.D. STEEL. POSTS RESTING ON CONCRETE SHALL BE SET AND GROUT IN 8" DEEP HOLES. POSTS RESTING ON STEEL SUBSTRATE TO BE WELDED IN PLACE AS PER CONDITIONS PRESENT. i. RAILINGS – 1 ½" O.D. STEEL. SHOP WELDED TO POSTS. GRIND SMOOTH. HANDRAIL – MTD. 36" HIGH AFF. GUARDRAIL – MTD. 42" AFF. BOTTOM RAIL – MTD. WITHIN 1 1/4" OF FFE OR TREAD.

j. PROVIDE WALL MOUNTING BRACKETS. SECURELY BOLT TO CONCEALED LET-IN WOOD AT STUD

k. PICKETS – ½" SOLID STEEL, 4" O.C., SHOP WELDED TO RAILS.

06005 WOOD FRAMING - DRAFTSTOPPING

DRAFT STOPPING IN ATTIC: A. PROVIDE IN NON-SPRINKLERED BUILDINGS WITH COMBUSTIBLE ROOF, CEILING, OR ATTIC FRAMING. TO SUBDIVIDE CONCEALED SPACES SUCH AS ATTICS INTO 3,000 S.F. MAX COMPARTMENTS TO PREVENT SPREAD OF

WALLS. SECURELY BOLT TO MASONRY WALLS USING EXPANSION BOLTS.

B. DRAFTSTOPPING IN ATTIC SHALL FROM A CONTINUOUS BARRIER FROM FASCIA AND FROM CEILING TO ROOF C. PASSAGE OPENS IN DRAFTSTOP SHALL BE SELF CLOSING DOORS WITH LATCHES.

06500 CABINETRY

- 1. SEE PLANS FOR LAYOUTS AND NOTES. 2. ALL WORK TO BE COMMERCIAL GRADE.
- 3. COUNTERS: SEE CABINET DETAILS FOR COUNTERTOP SCHEDULE. 4. ROLL TOP COUNTERS ARE NOT ACCEPTABLE.
- 5. CABINETS: CONSTRUCT USING ¾" PLYWOOD. COVER ALL SURFACES INTERIOR AND EXTERIOR WITH PLASTIC LAMINATE. EXPOSED EDGES TO BE 3MM PVC.

- 3" 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

7. CABINET DIMENSIONS AND LAYOUTS: REFERENCE FLOOR PLANS AND CABINET DETAILS.

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

WALLS ARE ENCLOSED TO PREVENT MOISTURE INFILTRATION, AND EXTERIOR DOORS AND WINDOWS ARE

2. DO NOT INSTALL ANY INSULATION UNTIL ALL DANGER OF MOISTURE INFILTRATION IS RESOLVED, EXTERIOR

- 3. ALL ASSEMBLIES SHALL MEET STATE ENERGY CODE (INTERNATIONAL ENERGY CONSERVATION CODE WITH ALL STATE AMENDMENTS AND SUPPLEMENTS). 4. STORE, HANDLE, AND INSTALL ALL ASSEMBLIES AS PER INSULATION MANUFACTURER'S INSTRUCTIONS AS PER
- 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 HANGERS, STRAPS, RODS, TAPE, MISCELLANEOUS FRAMING, AND FASTENERS AS REQUIRED TO PERMANENTLY SUPPORT INSULATION IN PLACE AS DIRECTED BY INSULATION MFR. AS PER CONDITIONS

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 BAFFLES 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

a. PRODUCTS: FIBERGLASS BATTS BY OWENS CORNING OR EQUAL

<25, PBDE FREE; LOW EMITTING MATERIAL, FORMALDEHYDE FREE.

- INSTRUCTIONS FROM THE INSULATION MANUFACTURER. ALL DOCUMENTATION SHALL BE PROVIDED TO THE 14. FIBERGLASS BATT INSULATION
- ALL PRODUCTS TO APPROVED BY MANUFACTURER FOR RELATED INSTALL. b. SIZE: 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; BLOCKS AIR INFILTRATION; FLAME SPREAD RATING
- PRESENT; DO NOT COMPRESS; DO NOT INSTALL ANY THERMAL INSULATION BATTS OVER SUSPENDED 15. CLOSED CELL SPRAY INSULATION

f. INSTALLATION: INSTALL AND SUPPORT AS PER MANUFACTURER'S INSTRUCTIONS PER CONDITIONS

- a. PRODUCTS: CERTAINTEED "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. PROVIDE "CERTACOAT IC" LATEX BASED COATING AS PER INCREASED FIRE RESISTANCE. d. PROPERTIES: CLOSED CELL, R6 MINIMUM PER INCH OF THICKNESS, RIGID, 2 PCF DENSITY, REJECTS 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.
- 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 NRC RATING = 1 MINIMUM; R-13 MINIMUM TOTAL (PRODUCT TO

PROVIDE R 4.91 PER INCH); BLOCKS AIR FILTRATION; FLAME SPREAD RATING < 15, PBDE FREE; LOW

d. INSTALLATION: INSTALL AS PER MANUFACTURER'S INSTRUCTIONS PER CONDITIONS PRESENT. INSTALL

TREATMENT AT FLOOR SLABS LOCATED BELOW EXTERIOR GRADE LEVEL SHALL MEET THE REQUIREMENTS OF

AT ALL EXTERIOR CMU OR SPLITFACE BLOCK 8" WIDE AND WIDER WHICH IS PART OF THE BUILDING

- 07100 DAMPPROOFING, WATERPROOFING, VAPOR BARRIERS
- 1. PROVIDE DAMPPROOFING, WATERPROOFING, AND VAPOR BARRIERS WHERE SHOWN ON DRAWINGS AND AS 2. SLAB ON GRADE FLOOR SLABS – (1) LAYER 6 MIL POLY VAPOR BARRIER. LAP SPLICES 24".

EMITTING MATERIAL, FORMALDEHYDE FREE; NON-SHRINK, MOLD RESISTANT.

- IBC (LATEST EDITION) SECTION 1807. 3. MULTI-WYTH MASONRY WALLS – BITUMINUOUS DAMPROOFING. LOCATE BETWEEN WYTHES. 4. EXTERIOR SHEATHING – MOISTURE/VAPOR RETARDER BARRIER. PRODUCTS TO BE BREATHABLE MATERIAL WITH PERM RATING >45 PERMS.
- VAPOR BARRIERS WHICH ARE PART OF STUCCO, EIFS, OR ARCHITECTURAL WALL PANEL ASSEMBLIES SHALL BE AS APPROVED BY THE RELATED MANUFACTURER. PROVIDE "LIQUID APPLIED" SYSTEMS WHERE INDICATED OR AS RECOMMENDED BY EXTERIOR VENEER

5. CRAWLSPACES WHERE CRAWLSPACE GRADE IS BELOW ADJACENT FINISH GRADE – PROVIDE WATERPROOFING

ASSEMBLIES AS REQUIRED. PROVIDE "MUD SLAB" TO COVER ENTIRE CRAWLSPACE AREA. SLOPE TO SUMP PIT WITH PUMP. PROVIDE FLOW SWITCH WITH ALARM LIGHT INDICATOR TO ALERT BUILDING OPERATORS WHEN PUMP IS ENGAGED. PUMP WATER TO OUTFLOW PER CODE.

(1) LAYER AT SIDING OR MASONRY APPLICATIONS.

(2) LAYERS AT STONE, STUCCO, OR EIFS APPLICATIONS.

- 07240 EXTERIOR INSULATED FINISH SYSTEM (E.I.F.S.)
- PROVIDE STO SYSTEMS OR EQUAL. 2. SYSTEM TO BE APPROVED BY MANUFACTURER FOR INSTALL AS PER CONDITIONS PRESENT.
- 3. SYSTEM TO HAVE AN INTEGRAL "MEANS OF POSITIVE DRAINAGE" AS PER THE SYSTEM MANUFACTURER'S 4. THE CONTRACTOR SHALL NOTE THAT IF AN INTEGRAL MEANS OF POSITIVE DRAINAGE IS NOT PROVIDED THEN THE EIFS ASSEMBLY SHALL BE INSPECTED BY A CERTIFIED THIRD-PARTY INSPECTION AGENCY THROUGHOUT ITS INSTALL. IN SUCH CASE, THE CONTRACTOR SHALL NOTIFY THE OWNER 30 DAYS PRIOR TO START OF

<u>INSTALL</u> . THE OWNER SHALL HIRE THE THIRD PARTY SPECIAL INSPECTOR AND THE CONTRACTOR TO

COORDINATE ALL INSPECTIONS. DELIVER ALL INSPECTION REPORTS TO THE PERMITTING AUTHORITIES.

- 5. PRIOR TO START, THE CONTRACTOR SHALL OBTAIN THE FOLLOWING DOCUMENTATION FROM THE E.I.F.S MANUFACTURER: EIFS MANUFACTURER'S ICC EVALUATION REPORT, STANDARD SPECIFICATIONS, STANDARD DETAILS, INSTALLATION INSTRUCTIONS. ALL WORK TO MEET THESE RELATED STANDARDS. 6. INSTALLER TO HAVE 3 YEARS MINIMUM EXPERIENCE IN PROVING SIMILAR WORK AND HAVE ALL PROPER
- MANUFACTURER IN ORDER TO MEET WARRANTY CRITERIA. 7. PROVIDE 4'X4' MOCK-UP FOR OWNER'S REVIEW TO DETERMINE COLOR AND FINISH. FINISH COAT COLOR

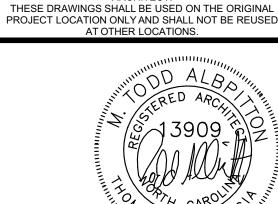
TOOLS AND SKILLS REQUIRED. INSTALLER TO HAVE ALL CERTIFICATIONS REQUIRED BY ASSEMBLY

- AND TEXTURE IS AS SELECTED BY OWNER FROM MFR. STANDARD CHARTS. 8. FURNISH AND HANDLE ALL MATERIALS AS PER MANUFACTURER'S INSTRUCTIONS.
- 9. STORE ALL MATERIALS ABOVE GROUND AND PROTECT FROM DIRECT SUNLIGHT, FREEZING, AND MOISTURE.

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NEW TIDAL WAVE

US 401

ROLESVILLE, NC

TIDAL WAVE AUTO

EAST THOMPSON STREET

THOMASTON GEORGIA



MARK | DATE | DESCRIPTION

SHEET TITLE

PROJECT DATE: xxxxx PROJECT NUMBER: ##

DRAWN BY: Name

- 10. SYSTEM TO INCLUDE: ½" 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.
- 11. ALL PRODUCTS IN ASSEMBLY TO BE OF TYPE/GRADE/MFR AS SUGGESTED BY E.I.F.S. MFR. 12. WHERE ANY CONDITIONS ARE ENCOUNTERED WHICH ARE NOT CLEARLY DESCRIBED IN MANUFACTURER'S PUBLISHED INSTRUCTIONS. THEN INSTALLER SHALL CONTACT MFR. AND OBTAIN DETAILED INSTRUCTIONS/PROCEDURES FOR CORRECT INSTALL.
- 13. FLASHINGS: PROVIDE ALL FLASHINGS AS SUGGESTED BY MFR..LOCATE AND INSTALL AS PER MFR. INSTRUCTION. INSTALL 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
- 14. SEALANTS/CAULKS: SEAL AND CAULK JOINTS AND EDGES AS PER MFR. RECOMMENDATIONS. 15. EJ – PROVIDE EXPANSION JOINTS WHERE EIFS MEETS DISSIMILAR MATERIALS AND ALONG CHANGES IN SUBSTRATE MATERIAL. PROVIDE BACKER ROD AND SEAL AS PER MFR. RECOMMENDATIONS.

07310 SHINGLE ROOFING

- 1. ALL ROOFING WORK TO MEET INTERNATIONAL BUILDING CODE (IBC LATEST EDITION) CHAPTER 15.
- 2. 30 YEAR FIBERGLASS CLASS "A" ARCHITECTURAL SHINGLES BY TAMKO OR QUAL OWNER TO SELECT PARTICULAR SHINGLE FROM MFR. STANDARD CHOICES.

16. WARRANTIES: PROVIDE MANUFACTURER'S STANDARD WARRANTIES.

- 3. INSTALL OVER 30 FLET
- 4. NO STAPLES TO BE USED.
- 5. INSTALL IN ACCORDANCE WITH SHINGLE MANAGE TYPICAL INSTRUCTIONS USING APPROVED FASTENERS AND METHODS
- 6. PROVIDE STARTER COURSES AND SPICIAL HIT/LOGE SHINGLES.

 7. ALL SHINGLES SHALL BELLOOM SI ME ACTORY RUN SO AS SO TO PREVENT NON-MATCHING SHINGLE AREAS.
- PROVIDE 3 YEAR OF TROLT WARRANTY FOR LABOR PROVIDE MAY. STAIL DARK 30 YEAR WARRANTY. 9. PROVIDE IS VANE OF EXTRA STOCK FOR OWNER'S FUTURE USE
- 10. PROVIDE LL FLASHINGS SEE FLASHING SPECIFICATIONS FOR ADDITIONAL DATA
- a. CONCEALED ROOF TO WALL INTERSECT FLASHING b. KICK-OUT FLASHING AT ROOF EDGE AT ROOF/WALL INTER FLASHINGS
- c. WHEN FLASHING TO MASONRY, PROVIDE 2 PC PREFIN. METAL
- d. FLASHING ASSEMBLY WITH SEALANT ALONG TOP.
- 11. INSTALL ALL ASSEMBLIES IN NEAT AND ORDERLY APPEARANCE WITH SMOOTH CUT EDGES AND TIGHT LAPS. 12. RIDGE VENTS – 12" WIDE PERFORMED RIDGE VENT. TAMKO OR EQUAL SHINGLE OVER.
- 13. BOOTS PROVIDE WATERTIGHT ASSEMBLY AT PIPE PENETRATIONS.
- 14. CURBS PROVIDE WATERTIGHT ASSEMBLIES AS PER RELATED ROOF MOUNTED EQUIPMENT.

07400 METAL ROOF – R PNL

- 1. 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 WATERTIGHT.
- 2. PRODUCTS: PBR PANEL AS MFR'S BY DETAIL METALS, GRIFFIN, GA 1 ¼", 36" WIDE PANELS, RIBS AT 12" O.C.
- SEE STRUCTURAL DRAWINGS BY OTHERS FOR ROOF PANEL STRUCTURAL CRITERIA. 3. FINISH: VALSPAR WEATHER X SILICONE POLYESTER PAINT SYSTEM.
- COLOR: AS SELECTED BY OWNER. 4. FASTENERS – AS PER ROOF MANUFACTURER'S RECOMMENDATION PER INSTALL CONDITIONS PRESENT.
- EXPOSED FASTENERS TO MATCH METAL COLOR. 5. INSTALLER – TO HAVE 5 YEARS RELATED EXPERIENCE. POSSESS ALL CERTIFICATIONS AS REQUIRED BY THE
- ROOFING MANUFACTURER AS NEEDED TO MEET WARRANTY CRITERIA. 6. FURNISH, STORE, HANDLE, AND INSTALL ALL MATERIALS AS PER THE ROOFING MANUFACTURER'S PUBLISHED
- INSTRUCTIONS AS PER THE CONDITIONS PRESENT.
- 7. ALL INSTALLATION TOOLS SHALL BE AS RECOMMENDED BY THE ROOFING MANUFACTURER. 8. PROVIDE ALL MATERIALS AS RECOMMENDED BY THE PANEL MANUFACTURER
- INCLUDING: MATCHING FLASHINGS, TRIM, COPINGS, CLIPS, FASTENERS, SEAMING, SCREWS, SEALERS, BOOTS, CLOSER STRIPS, GUTTER/DOWNSPOUTS AND OTHER ACCESSORIES AS REQUIRED FOR A COMPLETE WATERTIGHT
- 9. FLASHING AND TRIM MATERIAL AND PROFILES SHALL BE AS RECOMMENDED BY THE PANEL MANUFACTURER. REFERENCE FLASHING AND SHEET METAL SPECIFICATIONS FOR ADDITIONAL DATA.
- 10. 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.
- 11. INSTALLATION OVER SUBSTATE OR SUPPORT INDICATES INSTALLERS ACCEPTANCE OF ALL SUBSTRATE CONDITIONS AS BEING SUITABLE FOR PROPER AND WARRANTED INSTALLATION. 12. INSTALL ASSEMBLIES AS PER MANUFACTURER'S STANDARD INSTRUCTIONS AS PER CONDITIONS PRESENT.
- 13. FLASH TO ADJACENT MATERIALS AND VENEERS WATERTIGHT 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.
- 14. CAULK ALONG ALL FLASHING EDGES WHERE SUCH MEETS ADJACENT MATERIALS. 15. ALL PANELS TO BE ONE PIECE WITH NO PIECED JOINTS FROM ROOF EDGE TO RIDGE UNLESS SPECIFICALLY
- OTHERWISE RECOMMENDED BY THE ROOF PANEL MFR.. 16. ALL ROOF MOUNTED ITEMS (I.E. CURBS/BOOTS) SHALL BE COMPATIBLE WITH ROOF PANEL AND ROOF WARRANTY
- CRIEREA. COLOR MATCH TO ROOF PANEL COLOR WHERE EXPOSED TO VIEW.
- 17. 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. 18. PROVIDE 15 YEAR MINIMUM WARRANTY ON ROOFING ASSEMBLY.

07405 METAL ROOF – PREFINISHED STANDING SEAM METAL

- 1. 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 <u>D</u>ICTATED BY IBC. SYSTEM SHALL
- WITHSTAND MAXIMUM DEFLECTION LIMITS AS PER IBC. SYSTEM SE a. PRODUCTS: 1 ¾" TALL VERTICAL RIB. 18" WIDE PANELS.b. SEE STRUCTURAL DRAWINGS BY OTHERS FOR 10 C PANESTAL
- 2. FINISH: STANDARD STRIATED. COLOR AS S
- 3. FASTENERS TO BE CONCEALE TYP 4. INSTALLER TO HAVE 5 Y 35 EL TP
- MANUFACTURER AS NEEL ED TO MEET WARRANTY CRITERIA. 5. 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 WATERTIGHT.
- 6. ALL TOOLS, SEAMERS, AND ROLLERS SHALL BE RECOMMENDED BY THE ROOFING MANUFACTURER. 7. PROVIDE ALL MATCHING FLASHINGS, TRIM, COPINGS, CLIPS, FASTENERS, SEAMING, SCREWS, SEALERS,
- ACCESSORIES, AND GUTTER/DOWNSPOUTS AS RECOMMENDED BY PANEL MANUFACTURER AS CONDITIONS
- 8. SYSTEM TO BE WATERTIGHT.

- 9. PROVIDE ADEQUATE SUBSTRATE/UNDERLAYMENT, MOISTURE BARRIER, AND PURLINS AS RECOMMENDED BY THE ROOFING MANUFACTURER AS PER CONDITIONS PRESENT.
- 10. 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 BIND SUITABLE FOR PROPER ROOF PANEL INSTALL.
- 11. INSTALL AS PER MANUFACTURER'S STANDARD INSTRUCTIONS AS PER CONDITIONS PRESENT 12. FLASH TO DISSIMILAR MATERIALS AND ADJACENT VENEERS WATERTIGHT 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. 13. CAULK ALONG ALL FLASHING EDGES WHERE SUCH MEETS DISSIMILAR MATERIALS.
- 14. ALL PANELS TO BE ONE PIECE WITH NO PIECED JOINTS FROM ROOF EDGE TO EDGE UNLESS SPECIFICALLY
- OTHERWISE RECOMMENDED BY THE PANEL MANUFACTURER. 15. ALL ROOF MOUNTED ITEMS (I.E. CURBS) SHALL BE COMPATIBLE WITH ROOF PANEL AND ROOF WARRANTY
- CRITERIA. CURB COLOR TO MATCH ROOF PANEL COLOR WHERE EXPOSED TO VIEW. 16. PROVIDE 30 YEAR MINIMUM WARRANTY ON ROOF ASSEMBLY 17. 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

- 1. MEET SMACNA'S "ARCHITECTURAL SHEET METAL MANUAL" RECOMMENDATIONS FOR DETAILING, METAL THICKNESS, AND INSTALLATION AS PER CONDITIONS PRESENT.
- 2. 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. 4. PROVIDE FOR EXPANSION AND CONTRACTION IN SHEET METAL WORK AS PER RECOMMENDATIONS OF SMACMA MANUAL AS PER CONDITIONS PRESENT.
- 5. JOINTS/SEAMS SHALL BE LAPPED, EVENLY SPACED AND LOCATED IN INCONSPICUOUS LOCATIONS. 6. FASTENERS TO BE WATERTIGHT, CONCEALED UNLESS INDICATED OTHERWISE. FASTENERS WHERE EXPOSED TO
- VIEW SHALL BE WATERTIGHT AND HAVE MATCHING FINISH. 7. COLORS: AS SELECTED BY OWNER FROM MANUFACTURER'S STANDARD COLOR CHARTS.
- GUTTER AND DOWNSPOUTS: a. SHALL BE SIZED BY MANUFACTURER TO HANDLE ALL DRAINAGE CONDITIONS PRESENT AS PER IPC.
- b. GUTTERS 24 GAGE MINIMUM PRE-FINISHED METAL. SEAMLESS APPEARANCE. PROVIDE GUTTER CONTINUOUS ALONG ALL LOW EAVES OF ENTIRE BUILDING. INCLUDING THE FOLLOWING ITEMS IF PRESENT: ROOF RETURNS AND DORMERS.
- c. DOWNSPOUTS 22 GAGE MINIMUM, TO DIRECT WATER AWAY FROM BUILDING. d. PROVIDE ALL MISC. FLASHINGS AND DIVERTERS NEEDED TO DIVERT DRAINAGE INTO GUTTER/DRAIN WITHOUT
- OVERFLOW TO SURROUNDING SURFACES. e. PROVIDE "KICK-OUT" FLASHING AT INTERSECTIONS OF ROOF EDGE AND VERTICAL SURFACE. f. PROVIDE ADEQUATE FASTENERS, HANGERS AND SUPPORT.
- g. 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.
- 9. ROOF FLASHINGS PROVIDE WATERTIGHT ASSEMBLIES OF MATERIALS, PROFILES, AND FINISHES AS PER ROOFING MANUFACTURER'S INSTRUCTIONS. COLORS TO MATCH SURROUNDING MATERIALS.
- 10. SHEET METAL FLASHING AND TRIM: a. ALUMINUM SHEET: COMMERCIAL QUALITY, ASTM B209, 6063-T5 ALLOY, SHOP PRECOATED, 0.040" UP TO 4" WIDE, 0.050" UP TO 8" WIDE, 0.063" UP TO 10" WIDE, 0.080" UP TO 16" WIDE.

b. GALVANIZED STEEL: COMMERCIAL QUALITY, ASTM A653, GRADE A, G90 ZINC COATED, 24 GAGE UP TO 8"

- 1. PROVIDE PRODUCTS APPROVED FOR RELATED INSTALL MEETING ASTM C920 CLASS 25. ELONGATION PROPERTIES
- 2. CAULK AROUND ALL DOORS, WINDOWS, LOUVERS, AND WALL PENETRATIONS.

WIDE, 22 GAGE UP TO 10" WIDE, 20 GAGE UP TO 16" WIDE.

- 3. CAULK JOINT BETWEEN DISSIMILAR MATERIALS AS REQUIRED. 4. CAULK AROUND ALL PIPE PENETRATIONS THRU WALLS, FLOOR, CEILINGS, AND ROOFS.
- 5. PROVIDE BACKER ROD WHERE REQUIRED TO ADEQUATELY SUPPORT AND STRENGTHEN CAULK JOINT
- 6. EXPOSED CAULK SHALL BE OF COLOR TO MATCH ADJACENT MATERIALS.
- 7. CAULK USED AT FIRE RATED ASSEMBLIES SHALL BE UL LISTED "FIRE RATED" CAULK.
- 8. INSTALL AS PER CAULK MANUFACTURER'S INSTRUCTIONS AS PER CONDITIONS PRESENT. INSTALL IN NEAT SMOOTH LINES USING TOOLS AS RECOMMENDED BY CAULK MANUFACTURER.
- 9. THE OWNER SHALL ASSUME RESPONSIBILITY FOR MAINTAINING CAULK JOINTS AFTER THE BUILDING WARRANTY
- 10. COLORS: AS SELECTED BY OWNER FROM MANUFACTURER'S STANDARD CHARTS.

08100 METAL DOORS AND FRAMES

- 1. SEE DOOR SCHEDULE AND FLOOR PLAN FOR DOOR SIZES, PROFILES, AND TYPES.
- 2. DOORS 18 GAGE GALVANIZED STEEL WITH G60 COATING. INSULATED CORE. FACTORY PRIMED. 3. FRAMES – GALVANIZED STEEL WITH G60 COATING. FACTORY PRIMED. a. WELDED FRAMES TO BE 14 GA. MIN. FOR OPENINGS OVER 4' AND 16 GA. FOR OPENINGS 4' WIDE
- 4. FACTORY PREP DOORS FOR HARDWARE. 5. PROVIDE ALL ANCHORS AND ACCESSORIES FOR PROPER INSTALL AND FUNCTION.
- 6. PROVIDE APPROVED LOUVERS WHERE INDICATED. LOUVERS TO BE LOCATED SO AS TO NOT CONFLICT WITH PROPER DOOR HARDWARE INSTALLATION AND FUNCTION.
- 7. DO NOT CUT, CORE, OR FASTEN TRIM TO ANY DOOR OR FRAME UNLESS APPROVED BY DOOR/FRAME MFR. 8. INSTALL AS PER DOOR AND FRAME MANUFACTURER'S INSTRUCTIONS. INSTALL PLUMB AND TRUE. ADJUST

08400 PREFINISHED ALUMINUM STOREFRONT DOORS AND WINDOWS

- 1. SEE SCHEDULES AND ELEVATIONS, SIZES, PROFILES AND TYPES.
- 2. FINAL LAYOUTS BASED ON SHOP DRAWINGS PREPARED BY MANUFACTURER AND APPROVED BY OWNER.
 - a. MINIMUM ASSEMBLY MODEL # SERIES 451 BY KAWNEER OR EQUAL.
 - b. Prefinish Aluminum extruded 6063T Alloy tempered. c. SIZE: 2 1/8" X 4 ½" MINIMUM. MINIMUM THICKNESS = .125".
 - <u>UPSIZE SYSTEM AS REQUIRED TO MEET RELATED LOAD, SPAN, AND CODE CRITERIA.</u> d. FINISH: MANUFACTURER'S STANDARD MULTI-COAT FLUOROPOLYMER COATINGS. COLOR AS SELECTED BY OWNER.
- a. ASSEMBLY TO RESIST WIND LOADS AS REQUIRED BY STATE BUILDING CODE. b. INSULATED GLAZING TO BE A MINIMUM OF 1" INSULATED LOW E.
- c. UNINSULATED GLAZING TO BE 1/4" MINIMUM (UPSIZE AS NEEDED TO MEET RELATED LOAD, SPAN
- AND CODE CRITERIA) d. SPANDRAL GLAZING – SEE PLANS FOR LOCATIONS
- e. PROVIDE SAFETY/TEMPERED GLAZING WHERE REQUIRED BY CODE. f. U FACTOR & SHGC COEFFICIENT – MEET MINIMUM REQUIREMENTS OF STATE ENERGY CODE.
- 5. STOREFRONT DOOR ASSEMBLIES a. MODEL # SERIES 350 MEDIUM STILE BY KAWNEER OR EQUAL.
 - b. SIZE= 3 ½" VERT. STILES AND TOP RAIL. 10" BOTTOM RAIL. c. SYSTEM TO BE COMPATIBLE WITH ANY SURROUNDING STOREFRONT FRAMING.
 - d. ASSEMBLY TO RESIST WIND LOADS OF 30 PSF.
 - e. GLAZING INSULATED, LOW E, TEMPERED, TINTED. f. HARDWARE – HINGES, HANDICAP ACCESSIBLE THRESHOLD, PANIC DEVICE, CLOSER, WEATHER STRIP,
 - LOCKSET. SEE DOOR AND DOOR HARDWARE SCHEDULE ON PLANS FOR ADDITIONAL DATA. g. U FACTOR – MEET MINIMUM REQUIREMENTS OF STATE ENERGY CODE

SEE SIGN PACKAGE FOR LOCATION

- 10. CLEAN AND ADJUST AT COMPLETION.
- 8. PROVIDE MATCHING MISCELLANEOUS BREAK METAL TRIM AS PER WATERTIGHT SEAL AT OPENING EDGES. COLORS: ALL COLORS ARE SELECTED BY OWNER FROM MANUFACTURER'S STANDARD SELECTIONS.

6. <u>AS PER TIDAL WAVE CORPORATE'S REQUEST, STOREFRONT UNITS LOCATED AT WASH TUNNEL SHALL HAVE</u>

BASE FLASHING INSTALLED IN REVERSE SO AS TO DIRECT ALL DRAINAGE TO WASH TUNNEL INTERIOR.

7. INSTALL ALL ASSEMBLIES AS PER PRODUCT MANUFACTURER'S TYPICAL INSTRUCTIONS AS PER CONDITIONS

08700 DOOR HARDWARE

- 1. SEE DOOR SCHEDULE AND HARDWARE SCHEDULE ON PLANS FOR ADDITIONAL DATA.
- 2. GRADE: LIGHT COMMERCIAL GRADE MINIMUM. 3. PROVIDE ITEMS WHICH MEET FIRE CODE WHERE INSTALLED IN FIRE DOOR ASSEMBLY. 4. ALL HARDWARE FINISHES TO MATCH. COORDINATE PRIOR TO ORDERING. THE FINISH SHALL BE SATIN
- 5. ALL DOOR HARDWARE SHALL MEET ADA GUIDELINES. DOOR OPENING FORCE FOR PUSHING OR PULLING
- SHALL BE: INTERIOR DOOR: < 5 LBS., EXTERIOR DOOR: 8 LBS.
 - a. HINGES: BUTT HINGES, FULL MORTISE, 5 KNUCKLE, BRUSHED NICKEL. 3 PER DOOR. HINGES AT EXTERIOR DOORS TO HAVE NON-REMOVABLE PINS.
- b. PANIC DEVICE: VON DUPRIN 98 SERIES OR EQUAL, TO DISENGAGE LOCK, BRUSHED NICKEL (PROVIDE MULLS WHERE NEEDED FOR PROPER FUNCTION) c. LEVER SETS: SCHLAGE "AL" 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. d. PRIVACY SETS SHALL BE "PUSH BUTTON" TYPE LOCKING. NOT "PUSH/TURN".
- e. CLOSER: SURFACE MOUNTED, COMMERCIAL GRADE 1. LCN #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 A SUBSTITUTE FOR ACTUAL CLOSER. ON FIRE RATED DOORS OR HIGH USE DOORS SUCH AS LARGE PUBLIC 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. f. STOPS: PROVIDE TRIMKO WALL OR FLOOR MTD. AS PER CONDITIONS PRESENT. BRUSHED NICKEL. STOPS AT HIGH USE DOORS SHALL BE FLOOR MOUNTED. PROVIDE (1) PER DOOR.
- g. FLUSH BOLTS: AS REQUIRED PER PROPER DOOR FUNCTION AT PAIRS OF DOORS. FLUSH MOUNTED. h. SILENCERS: STEELCRAFT OR EQUAL. PROVIDE TYPICAL AT ALL METAL AND WOOD FRAMES. i. PUSH/PULL PLATES, KICK PLATES: MATCH FINISH OF OTHER HARDWARE. BALDWIN OR EQUAL.
- j. DEADBOLTS: B SERIES BY SCHLAGE, KEYED WITH THUMB TURN ON INTERIOR SIDE. k. STRIKES: AS PER LOCKSET MFR. SUGGESTION. PROVIDE DEEP STRIKES WHERE NEEDED TO PROTECT
- I. WEATHERSTRIPPING: PEMKO OR EQUAL. PROVIDE AT ALL EXTERIOR DOORS AND AT ALL INTERIOR
- DOORS WITH NON-CONDITIONED SPACE ON ONE SIDE. m. THRESHOLDS: PEMKO. MILL FINISH. SET IN BED OF SEALANT. THRESHOLDS WHEN INSTALLED SHALL BE 1/2" HIGH MAX AND SHALL MEET HANDICAP ACCESSIBILITY CODES.
- n. SWEEPS: PEMKO OR EQUAL. MILL FINISH. (1) PER EXTERIOR DOOR. (1) PER INTERIOR DOOR WITH NON-CONDITIONED SPACE ON ONE SIDE.
- o. SPECIAL SEALS: PROVIDE SPECIAL SEALS WHERE REQUIRED BY DOOR FUNCTION. 7. MASTER KEY ALL LOCKSETS AS PER OWNER'S INSTRUCTION. PROVIDE (3) LABELED COPIES OF ALL KEYS WITH
- 8. PROVIDE ALL INCIDENTAL HARDWARE AS NECESSARY FOR PROPER DOOR FUNCTION.
- 9. ALL ITEMS TO BE INSTALLED AND MOUNTED IN ACCORDANCE WITH APPLICABLE FIRE AND HANDICAP CODES. 10. INSTALL ALL ITEMS AS PER MANUFACTURER'S RECOMMENDATIONS. ADJUST FOR PROPER FIT. 11. WHERE PAIR OF DOORS PRESENT, THEN HARDWARE SET TO APPLY TO BOTH DOORS. PROVIDE ADDITIONAL
- ASTRAGALS, FLOOR/CEILING BOLTS AS REQUIRED PER PROPER OPERATION OF HARDWARE AT PAIRS OF 12. PRIVACY LEVER SETS SHALL AUTOMATICALLY UNLOCK WHEN LEVER ACTIVATED FROM INSIDE ROOM.
- 13. NO HARDWARE SET SHALL AUTOMATICALLY LOCK WHEN DOOR SHUTS. 14. NO EGRESS DOOR SHALL BE CAPABLE OF BEING LOCKED TO PREVENT EGRESS WHILE BUILDING IS OCCUPIED. 15. PROVIDE PANIC DEVICES AT ELECTRICAL ROOM CLOSETS WHEN ELECTRICAL EQUIPMENT IN ROOM EXCEEDS

800 AMP. PANIC DEVICE TO DISENGAGE ANY LOCKING DEVICES ON DOOR.

- 09600 MOISTURE RESISTANT (M.R.) PANELS
- 1. WALLS #2400 FLAT PVC PANELS BY EPI EXTRUITEC PLASTICS INC. 888-818-0118 2. CEILING - #P1600 FLAT PVC PANELS BY EPI EXTRUITEC PLASTICS INC. 888-818-0118 3. PROVIDE ALL FURRING, TRIM, FASTENERS, SEALANTS, ADHESIVES, SPACES AS RECOMMENDED BY THE PANEL
- MANUFACTURER AS PER CONDITIONS PRESENT. 4. INSTALL ASSEMBLIES IN STRICT COMPLIANCE WITH PANEL MANUFACTURER'S INSTRUCTIONS AS PER CONDITIONS PRESENT. INSTALLATION OF A PANEL ASSEMBLY OVER A SUBSTATE INDICATES THE INSTALLERS ACCEPTANCE OF CONDITIONS AS BEING CODE COMPLIANT, IN COMPLIANCE WITH PANEL MANUFACTURER'S REQUIREMENTS, AND APPROVED FOR A WARRANTED INSTALLATION.
- 5. PROVIDE STANDARD MANUFACTURER'S WARRANTIES AS PER CONDITIONS PRESENT.

09900 PAINTING

- 1. PAINT ALL SURFACES EXCEPT ALUMINUM, VINYL, GLASS, FACE BRICK, UNDERSIDE OF METAL ROOFING AND PREFINISHED ITEMS - UNLESS NOTED OTHERWISE.
- 2. OWNER TO SELECT COLORS FROM MANUFACTURER'S STANDARD COLOR CHARTS. 3. PRODUCTS BY PORTER PAINTS, SHERWIN WILLIAMS, BENJAMIN MOORE, ARE ACCEPTABLE.
- 4. ALL PAINTS TO BE DELIVERED TO JOBSITE READY MIXED. 5. ASSUME 2 TRIM COLORS, 6 WALL COLORS, 2 CEILING COLORS. (CUT IN COLORS TO PROVIDE SHARP/STRAIGHT
- 6. PAINT ALL EXPOSED PIPING, CONDUIT, DUCTWORK, AND EXPOSED STRUCTURE IN FINISHED ROOMS WHERE NO CEILING IS PRESENT UNLESS INDICATED OTHERWISE.
- 7. INSTALLING ANY FINISH OVER A SURFACE INDICATES THE INSTALLER'S ACCEPTANCE OF THE SURFACE CONDITIONS AS BEING SUFFICIENT FOR PROPER MATERIAL INSTALL. 8. ALL SURFACES TO RECEIVE PAINT SHALL BE PREPPED AND SANDED AS PER PAINT MANUFACTURER'S
- INSTRUCTIONS. SURFACES SHALL BE FREE OF DEFECTS, DUST, AND SHALL BE SMOOTH. FILL NAIL HOLES AND NARROW CRACKS WITH APPROVED FILLER MATERIAL.
- 10. ANY MILDEW PRESENT SHALL BE TREATED AND SURFACE NEUTRALIZED WITH APPROVED COATING PER COATING MFR'S INSTRUCTION. 11. CLEAN ANY METAL SURFACES TO RECEIVE PAINT OF RUST, RUNS, MILL SCALE, AND OILY RESIDUE. 12. ANY PASSIVATOR OR OIL COATINGS SHALL BE REMOVED PRIOR TO PAINTING (i.e.. @ galvanized metal
- surfaces). CLEAN AND PREP RELATED SURFACES AS PER THE PAINT MANUFACTURER'S RECOMMENDATIONS. 13. FINAL FINISH TO BE FREE OF DEFECTS, FREE OF BRUSH/ROLLER STROKES, AND OF CONSISTENT COLOR. SAND BETWEEN COATS.

16. PAINT SCHEDULE: (SEE FINISH SCHEDULES ON PLANS)

- 14. DO NOT PAINT ANY SPRINKLER HEADS! 15. PROVIDE OWNER WITH ONE GALLON STOCK OF ALL PAINTS USED FOR FUTURE TOUCH-UP. LABEL ALL CANS WITH COLOR AND LOCATION.
 - a. FERROUS METAL 1 COAT ALKY'D METAL PRIMER, 2 COATS ALKY'D SEMI-GLOSS ENAMEL FINISH b. GALVANIZED METAL - CLEAN OF ANY RESIDUE WHICH MAY PREVENT PAINT BOND, 2 COATS ALKYD ENAMEL GLOSS GALV. METAL PAINT.

c. CONCRETE BLOCK – 1 COAT LATEX BLOCK FILLER, 2 COATS LATEX SEMI-GLOSS MASONRY PAINT.

d. CONCRETE FLOORS - RUSTOLEUM 2 PART WPOXY WITH COLOR FLAKES.

SIGN LENGTH SIGN CABINET G.C. TO PROVIDE SIGNPOWER SIGN SUPPORT BY SIGN MFR. JUNCTION BOX. SIGN CABINET BY SIGN MFR. G.C. TO PROVIDE SIGN POWER CONDUIT. G.C. TO PROVIDE LANDSCAPE ALLOWANCE ROUTE UNDERGROUND FOR PLANTER PLANTINGS AND MULCH TO BUILDING PANEL - TOP SOIL BY SIGN MFR. STONE CAP ___ 2" 'PVC WEEPS @ 4' O.C. 8" CMU W/ HORIZ. JT. REINF. @ 16" O.C. FILL W/ CONCRETE **PLAN** PLANTER PAD TO BE INSTALLED BY SIGN COMPANY SIGN FOOTING TO BE DESIGNED AND 12" THICK 3000# CONCRETE W/ INSTALLED BY SIGN VENDOR. GLASS FIBER REINFORCING. MEET CODE. NOTE: THIS IS NOT THE SIGN **SECTION** DETAIL - SIGN PLANTER

09925 ARCHITECTURAL WALL PANEL (AWP)

- 1. PRODUCTS = URESTONE PANEL ASSEMBLY BY REPLICATIONS UNLIMITED, HAZELWOOD, MO.
- 314-524-2040 OR 314-524-4040
- 2. ALL PRODUCTS TO BE EXTERIOR GRADE. 3. PRIOR TO START, OBTAIN MANUFACTURER'S STANT ARD PRODUCT DATA AND DETAILED INSTALLATION INSTRUCTIONS.
- INSTALL AS PER MANUFACE 6. INSTALL OVER "FLUID AT PLIET
- 7. PROVIDE ALL FURRING, BUCKER SUPPORTS, FASTENERS, ADHESIVES, FLASHINGS, J CHANNEL/FLASH, AND ANY ACTURE'S INSTRUCTIONS AS PER CONDITIONS PRESENT.
- 8. ANY WOLD RRING OR BACKING SUPPORTING AWP THAT IS WITHIN 12" OF GRADE SHALL BE PRESSURE
- PROVIDE MANUFACTURER'S "KEYED" CORNERS. 10. ASSEMBLY TO ALLOW FOR WATER DRAINING.
- 11. OWNER TO SELECT COLORS FROM MANUFACTURER'S STANDARD COLOR CHARTS. SEE PLANS. 12. PRODUCTS BY PORTER PAINTS, SHERWIN WILLIAMS, BENJAMIN MOORE, ARE ACCEPTABLE.

10400 SIGNAGE

RESTROOM SIGNAGE:

2. EMPLOYEE ONLY SIGNAGE:

- a. UNIVERSAL "RESTROOM" SIGN: PROVIDE (1) PER UNISEX TOILET ROOM DOOR. ROOM NAME, BRAILLE, AND HANDICAP PICTOGRAM.
- a. SEE PLANS FOR LOCATION. WORDING "EMPLOYEES ONLY".

a. INSTALL AS PER THE STATE MINIMUM ADA STANDARD FOR ACCESSIBILITY.

b. ATTACH, FASTEN AND SUPPORT ALL SIGNAGE AS PER SIGNAGE MANUFACTURER'S INSTRUCTIONS AS

c. PROVIDE ADEQUATE FASTENERS AND ADEQUATE SOLID CONCEALED BACKING SUPPORT.

FACILITY SIGNAGE: OBTAIN SEPARATE PERMIT FOR ALL EXTERIOR FACILITY SIGNAGE. CONTACT TIDAL WAVE CORP FOR COMPLETE

SIGN PACKAGE DATA.

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.

SPECIAL INSPECTIONS:

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

AUTHORITIES PRIOR TO ANUFACTURING OR INSTALL OF ANY RELATED

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 #49YW51	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 36" . VIEW DISTANCE = 36', ANGLE = 160 DEGREES, ACRYLIC LENS.	PROVIDE (1)AT WASH TUNNEL ENTRY AREA - PROVIDE MOUNTING BRACKET.

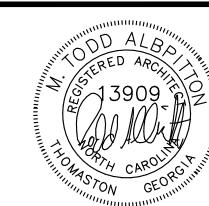
MFR'S INSTRUCTIONS AS PER CONDITIONS PRESENT

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.	

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ROLESVILLE, NC

TIDAL WAVE AUTO

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THOMASTON GEORGIA

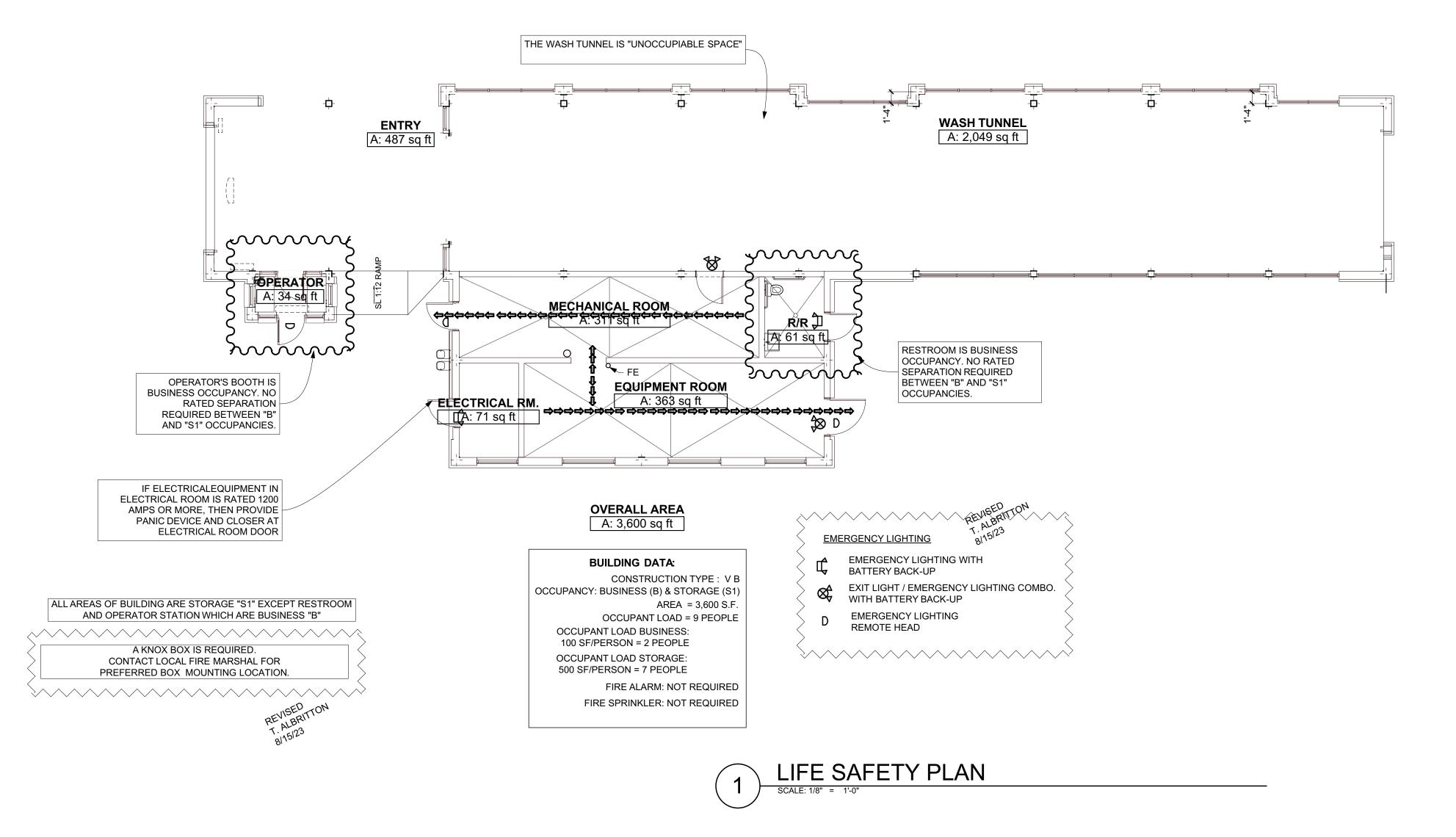


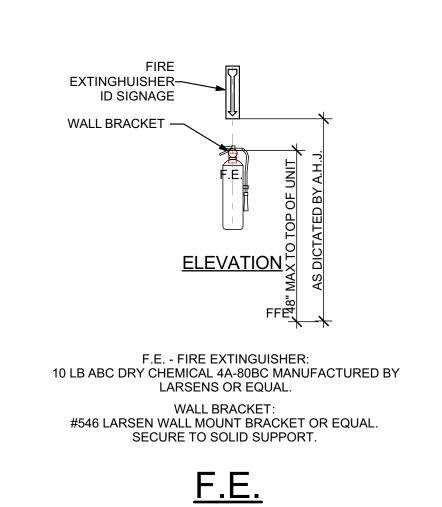
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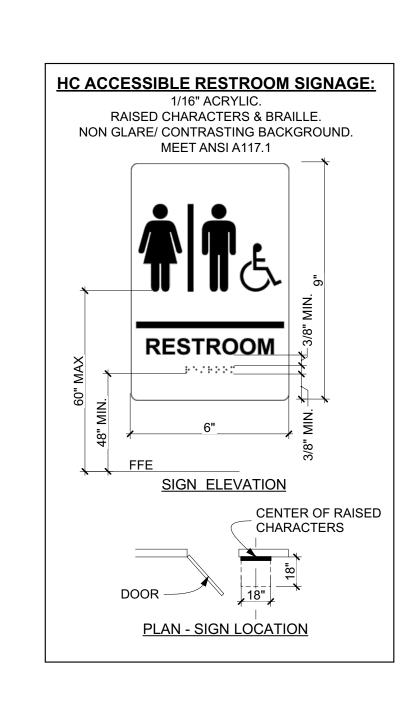
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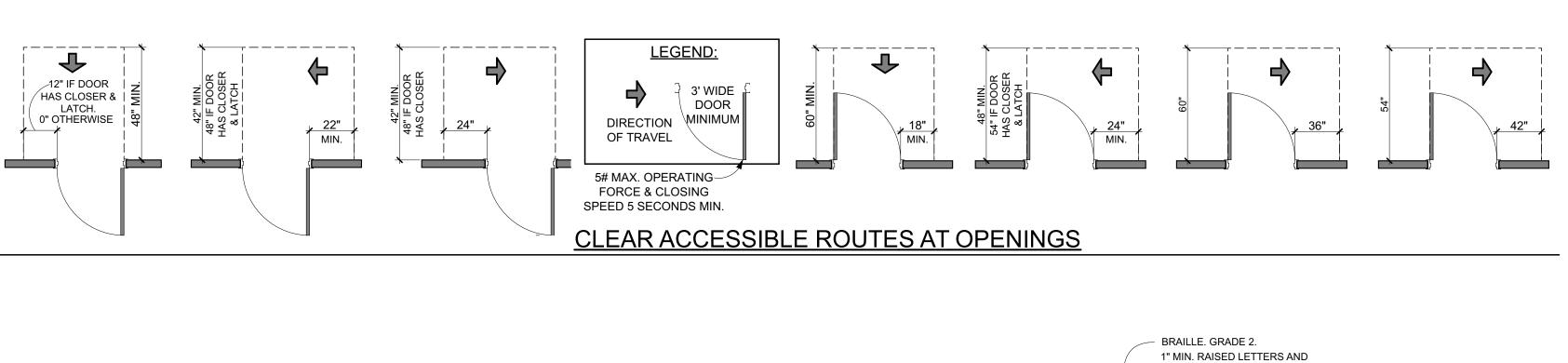
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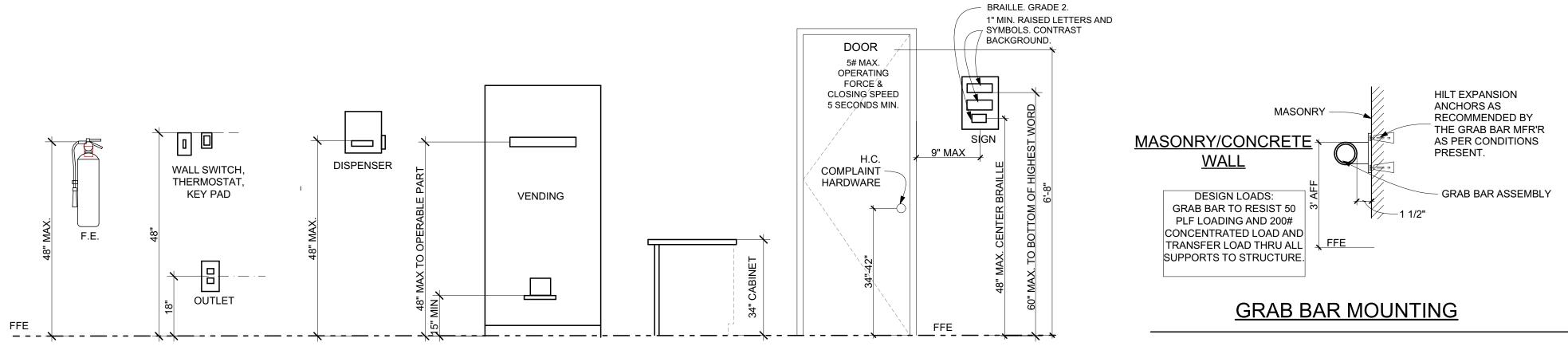
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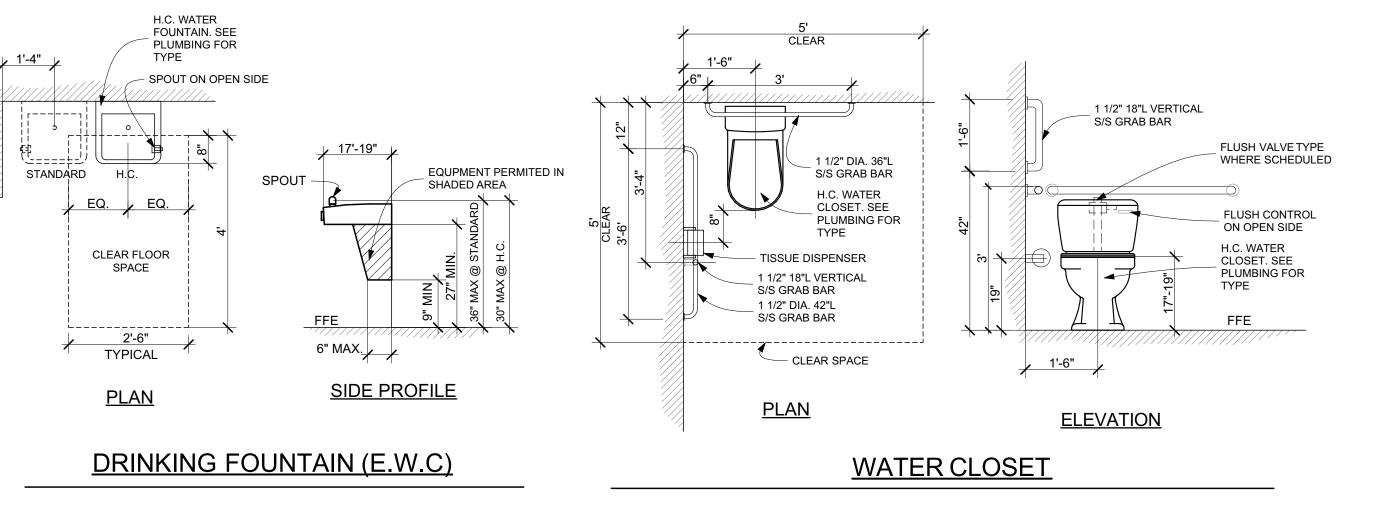


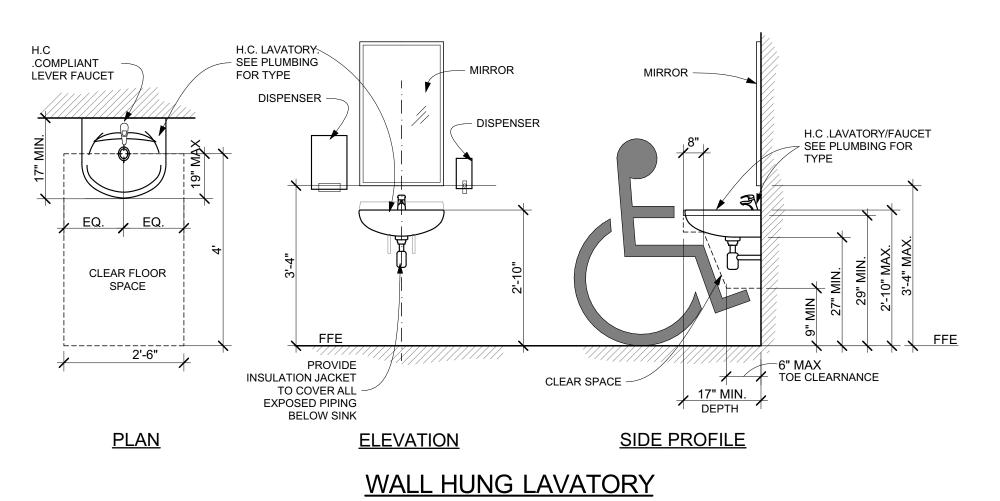






HANDICAP ACCESSIBLE ITEMS: MOUNTING HEIGHTS





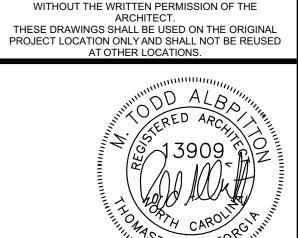
(H.C.) HANDICAP ACCESSIBLE ITEMS

NOT TO SCALE

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LIFE SAFETY

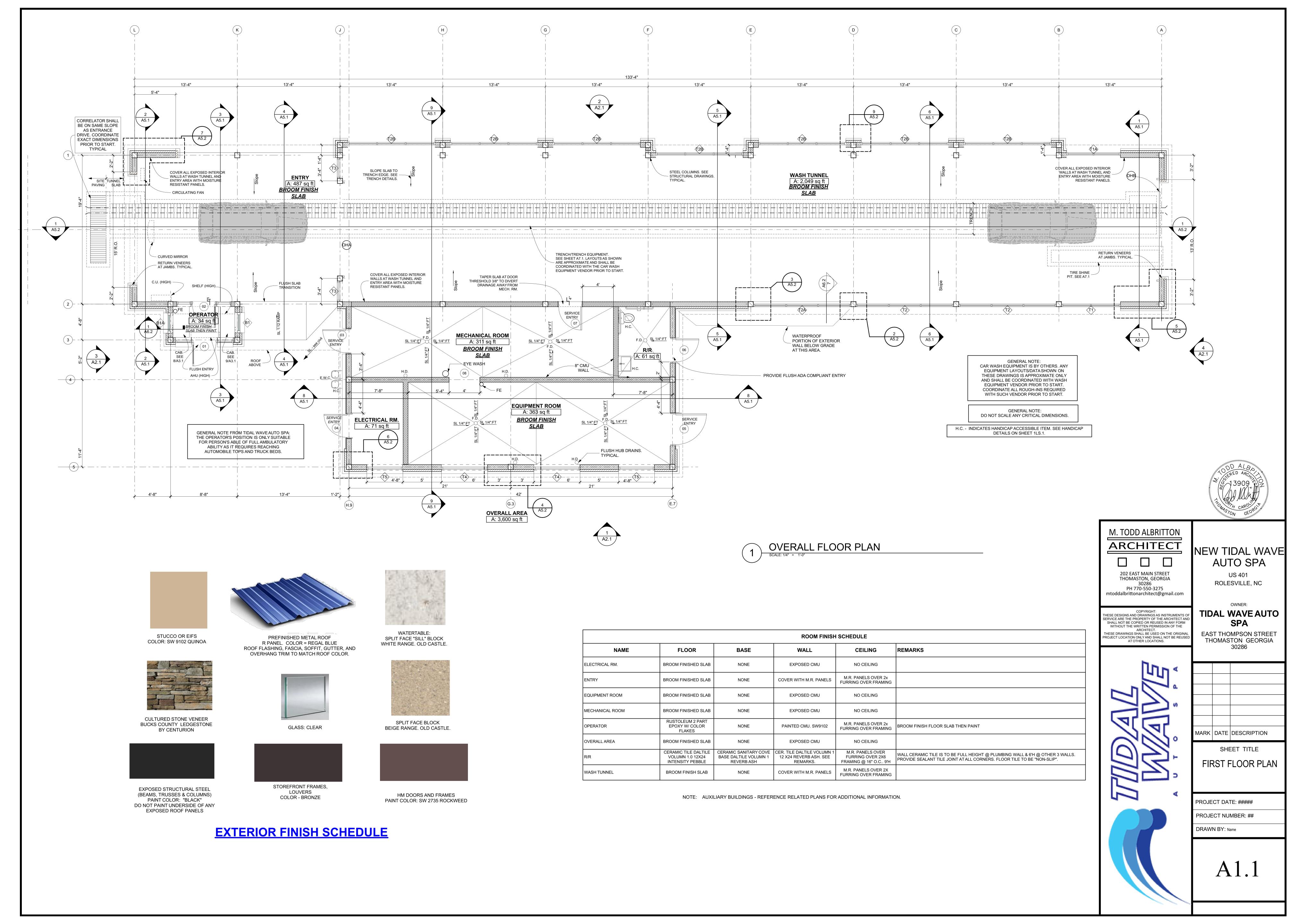
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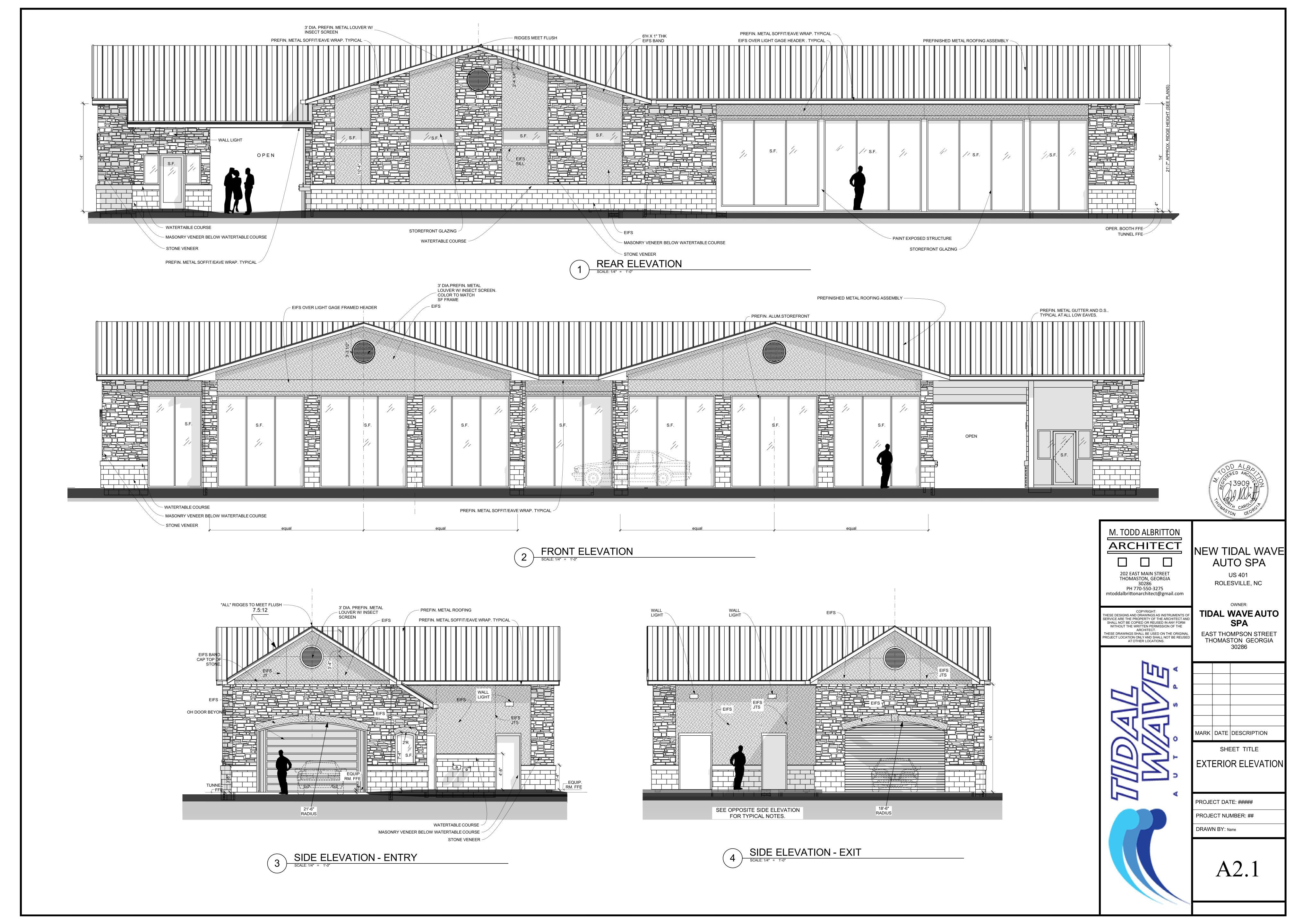
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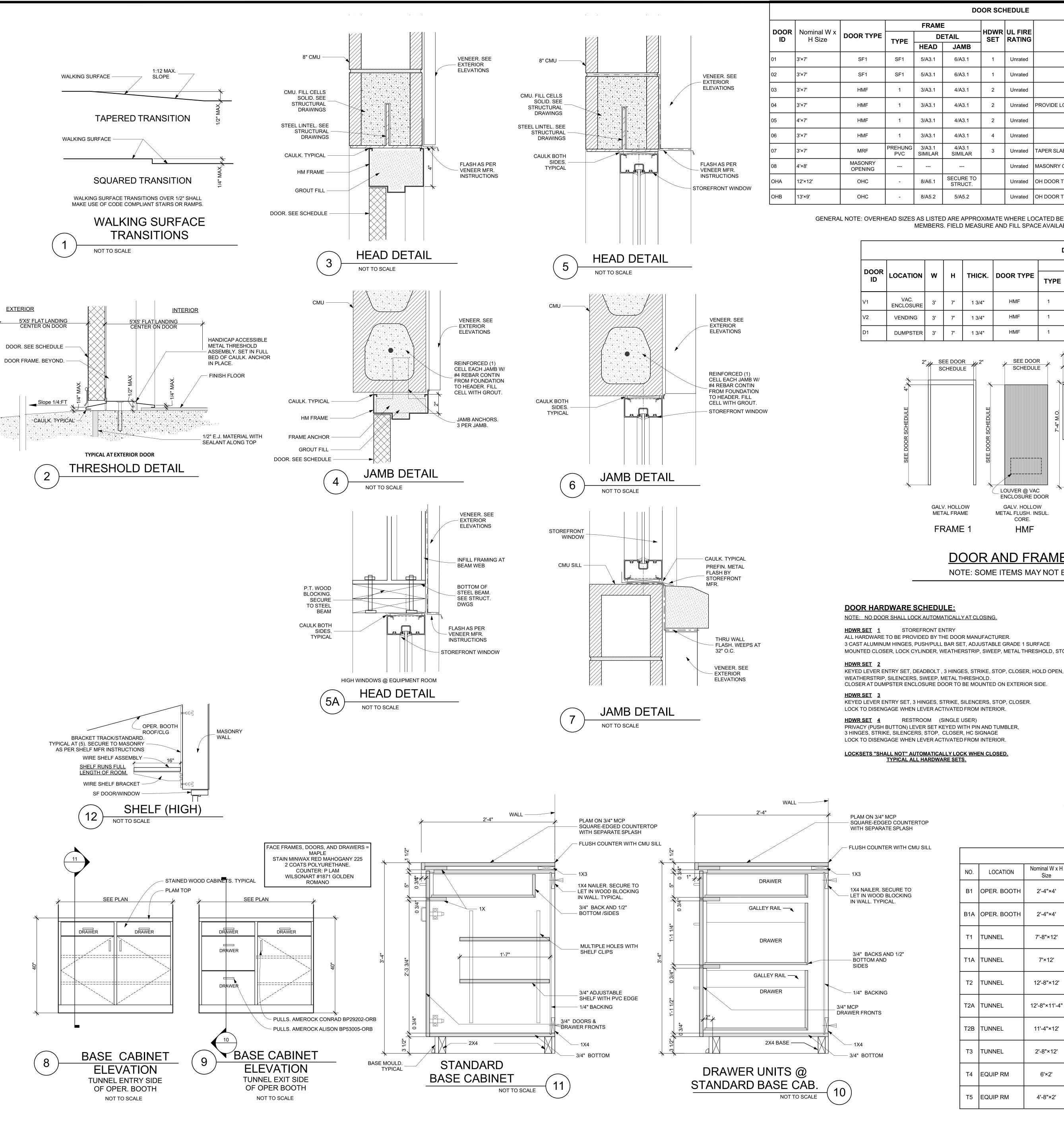
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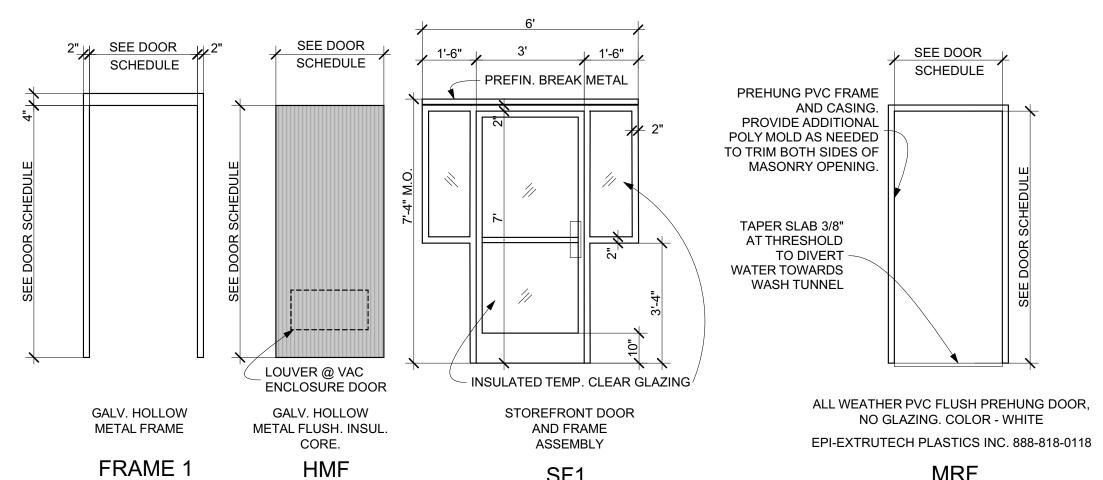




REMARKS SET RATING Unrated Unrated Unrated PROVIDE LOUVER LOW IN DOOR. SEE HVAC DWGS FOR SIZE. Unrated TAPER SLAB THRESHOLD TOWARDS TUNNEL. Unrated Unrated MASONRY OPENING Unrated OH DOOR TO COVER ARCHED OPENING Unrated OH DOOR TO COVER ARCHED OPENING

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

> **DOOR SCHEDULE - AUXILIARY BUILDINGS FRAME** LOCATION | W | H | THICK. REMARKS DOOR TYPE **DETAIL** SET RATING HEAD | JAMB COORDINATE QUANTITY OF DOORS -SEE AUXILIARY BUILDING PLAN SHEETS. DH/AB.1 DJ/AB.1 PROVIDE LOUVER LOW IN VAC ENCLOSURE DOOR AS INDICATED. HMF DH/AB.1 DJ/AB.1 COORDINATE QUANTITY OF DOORS -SEE AUXILIARY BUILDING PLAN SHEETS. 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.

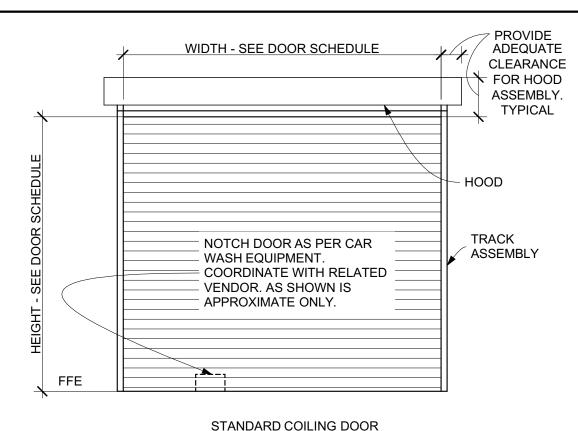
3 CAST ALUMINUM HINGES, PUSH/PULL BAR SET, ADJUSTABLE GRADE 1 SURFACE MOUNTED CLOSER, LOCK CYLINDER, WEATHERSTRIP, SWEEP, METAL THRESHOLD, STOP, CLOSE

WEATHERSTRIP, SILENCERS, SWEEP, METAL THRESHOLD. CLOSER AT DUMPSTER ENCLOSURE DOOR TO BE MOUNTED ON EXTERIOR SIDE.

KEYED LEVER ENTRY SET, 3 HINGES, STRIKE, SILENCERS, STOP, CLOSER.

LOCK TO DISENGAGE WHEN LEVER ACTIVATED FROM INTERIOR.

PRIVACY (PUSH BUTTON) LEVER SET KEYED WITH PIN AND TUMBLER,



STANDARD COILING DOOR MANUAL/CHAIN HOIST.

OVERHEAD DOOR - COILING

OVERHEAD DOOR TYPE ELEVATIONS:

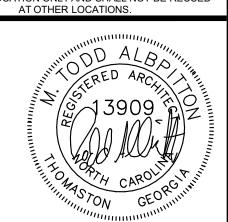
OVERHEAD DOOR NOTE: ALL OVERHEAD DOORS SHALL MEET DASMA MINIMUM WIND LOAD RATING AS PER LOCATION. ALL OVERHEAD DOORS SHALL HAVE DASMA APPROVED LABEL

WINDOW SCHEDULE NO. LOCATION Nominal W x H Size TYPE GLAZING APPROX. QTY. REMARKS: B1 OPER. BOOTH 2'-4"×4' STOREFRONT INSULATED CLEAR 1 FLAT TOP. SEE 1 & 2 /A6.2 AND 5-7/A3.1 B1A OPER. BOOTH 2'-4"×4' STOREFRONT INSULATED CLEAR 1 ARCHED TOP. SEE 1 & 2 /A6.2 AND 5-7/A3.1 T1 TUNNEL 7'-8"×12' STOREFRONT CLEAR 1 SEE 2/A6.1 T2 TUNNEL 12'-8"×12' STOREFRONT CLEAR 2 SEE 2/A6.1						
NO.	LOCATION	Nominal W x H Size	TYPE	GLAZING	APPROX. QTY.	REMARKS:
B1	OPER. BOOTH	2'-4"×4'	STOREFRONT	INSULATED CLEAR	1	FLAT TOP. SEE 1 & 2 /A6.2 AND 5-7/A3.1
B1A	OPER. BOOTH	2'-4"×4'	STOREFRONT	INSULATED CLEAR	1	ARCHED TOP. SEE 1 & 2 /A6.2 AND 5-7/A3.1
T1	TUNNEL	7'-8"×12'	STOREFRONT	CLEAR	1	SEE 2/A6.1
T1A	TUNNEL	7'×12'	STOREFRONT	CLEAR	1	SEE 2/A6.1
T2	TUNNEL	12'-8"×12'	STOREFRONT	CLEAR	2	SEE 2/A6.1
T2A	TUNNEL	12'-8"×11'-4"	STOREFRONT	CLEAR	1	SEE 2/A6.1 FOR HEAD & 7/A6.2 FOR SILL
Г2В	TUNNEL	11'-4"×12'	STOREFRONT	CLEAR	7	SEE 2/A6.1
Т3	TUNNEL	2'-8"×12'	STOREFRONT	CLEAR	2	SEE 4/A5.1
T4	EQUIP RM	6'×2'	STOREFRONT	CLEAR	2	SEE 6/A3.1, 5A/A3.1
T5	EQUIP RM	4'-8"×2'	STOREFRONT	CLEAR	2	SEE 6/A3.1, 5A/A3.1

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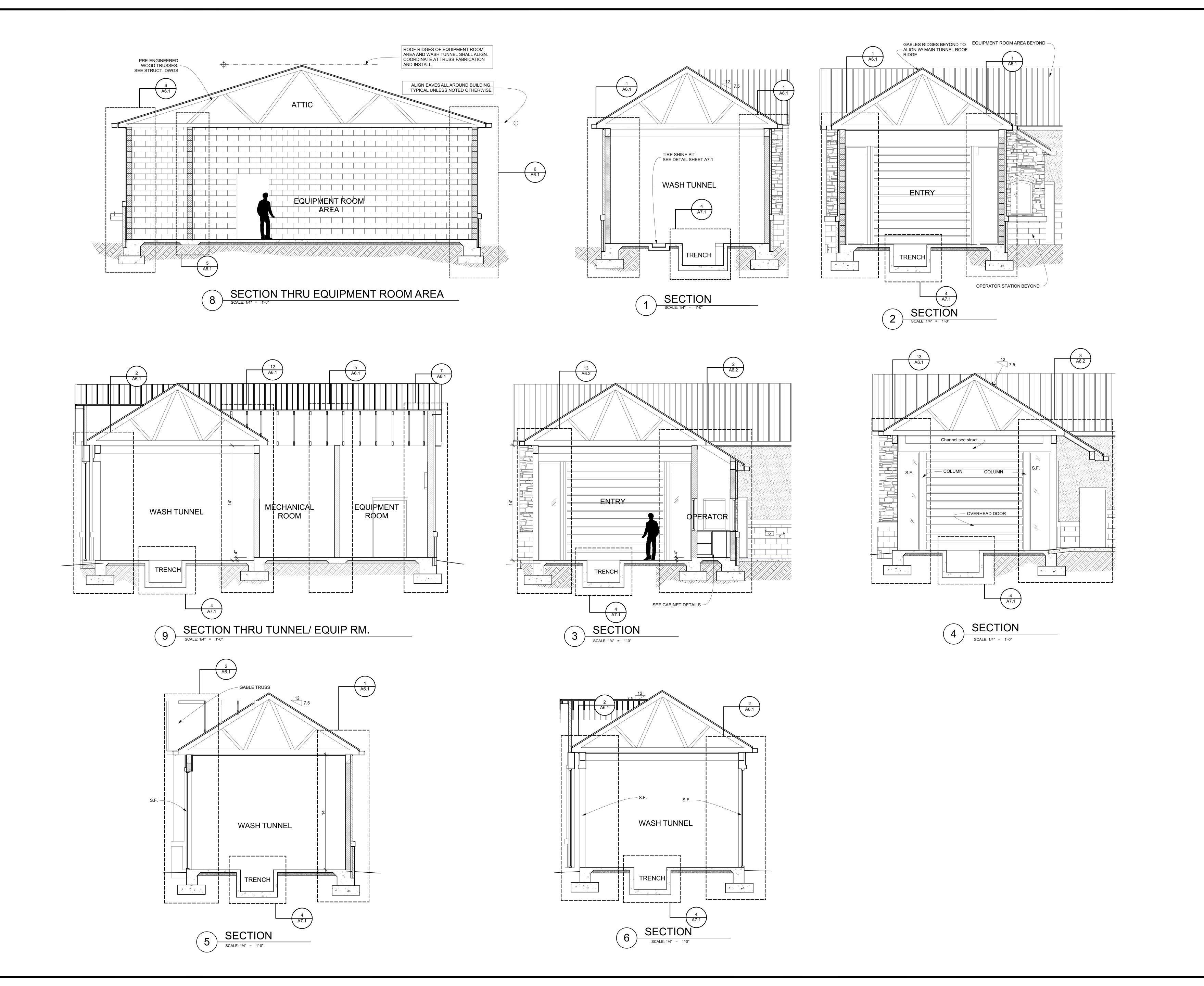
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SHEET TITLE

DOOR & WINDOW SCHEDULE/DETAILS

PROJECT DATE: xxxxx

PROJECT NUMBER: ## DRAWN BY: Name

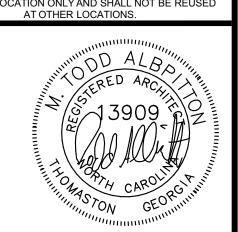


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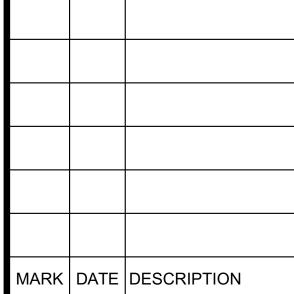
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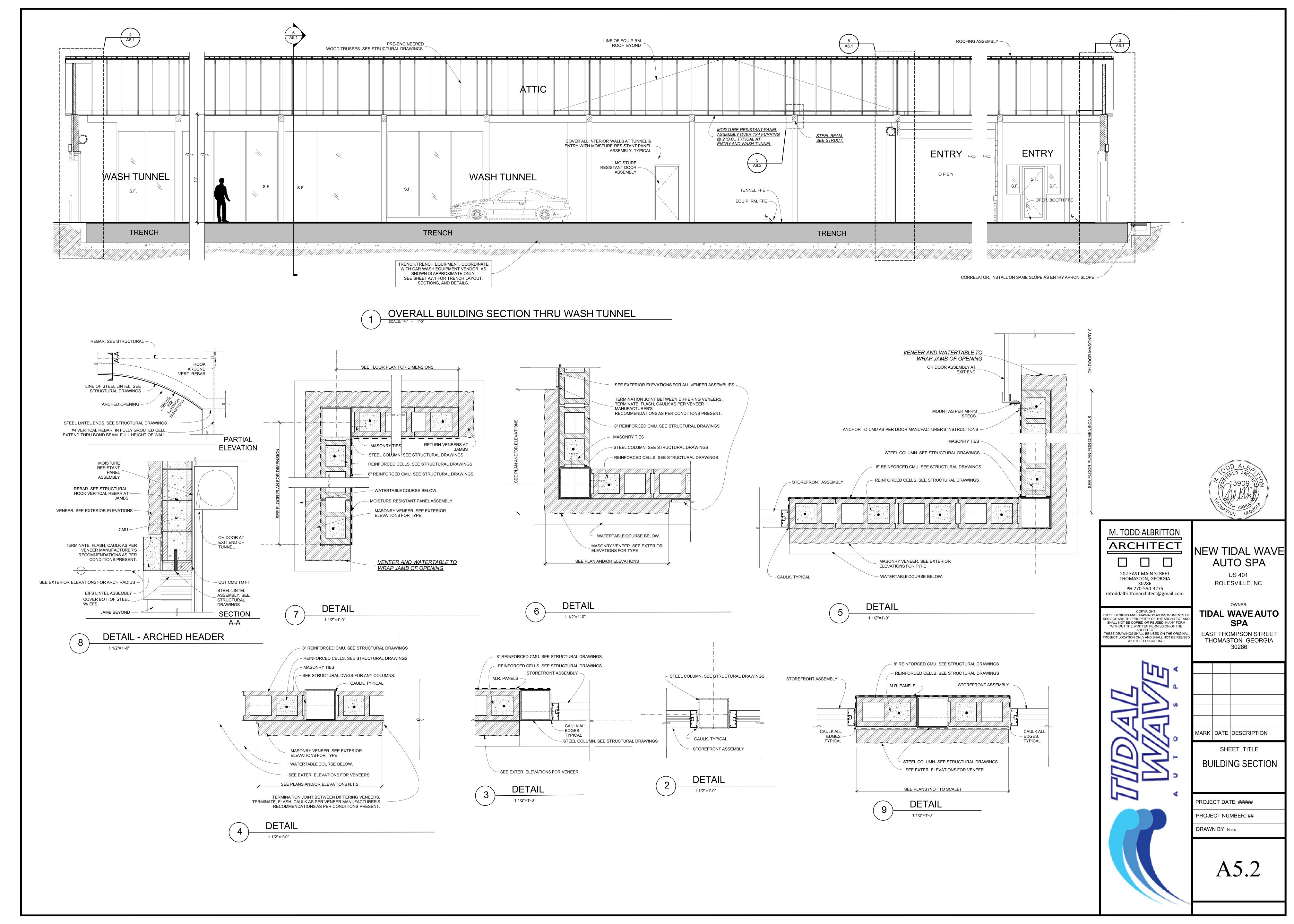
BUILDING SECTION

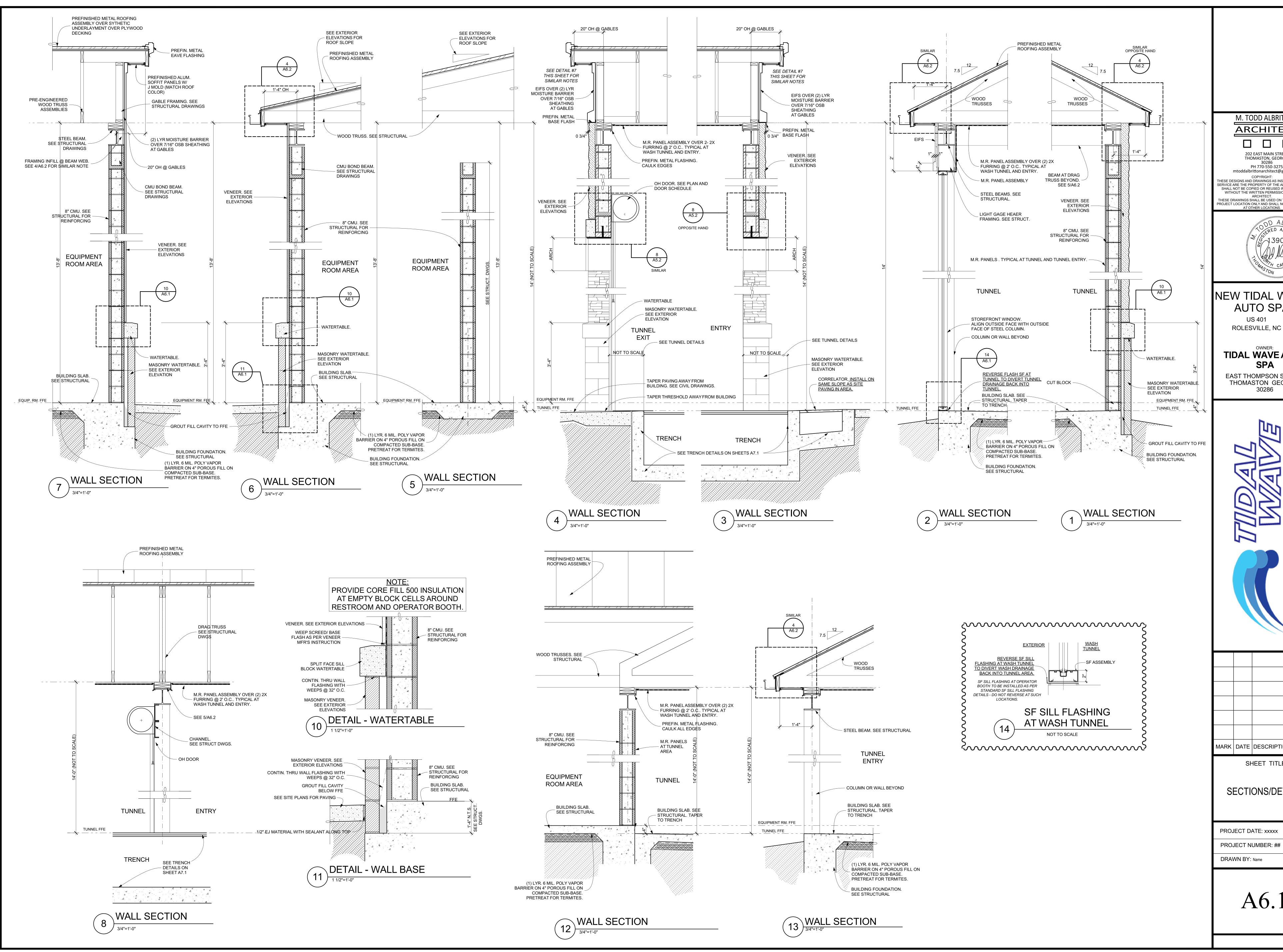
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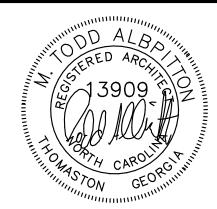
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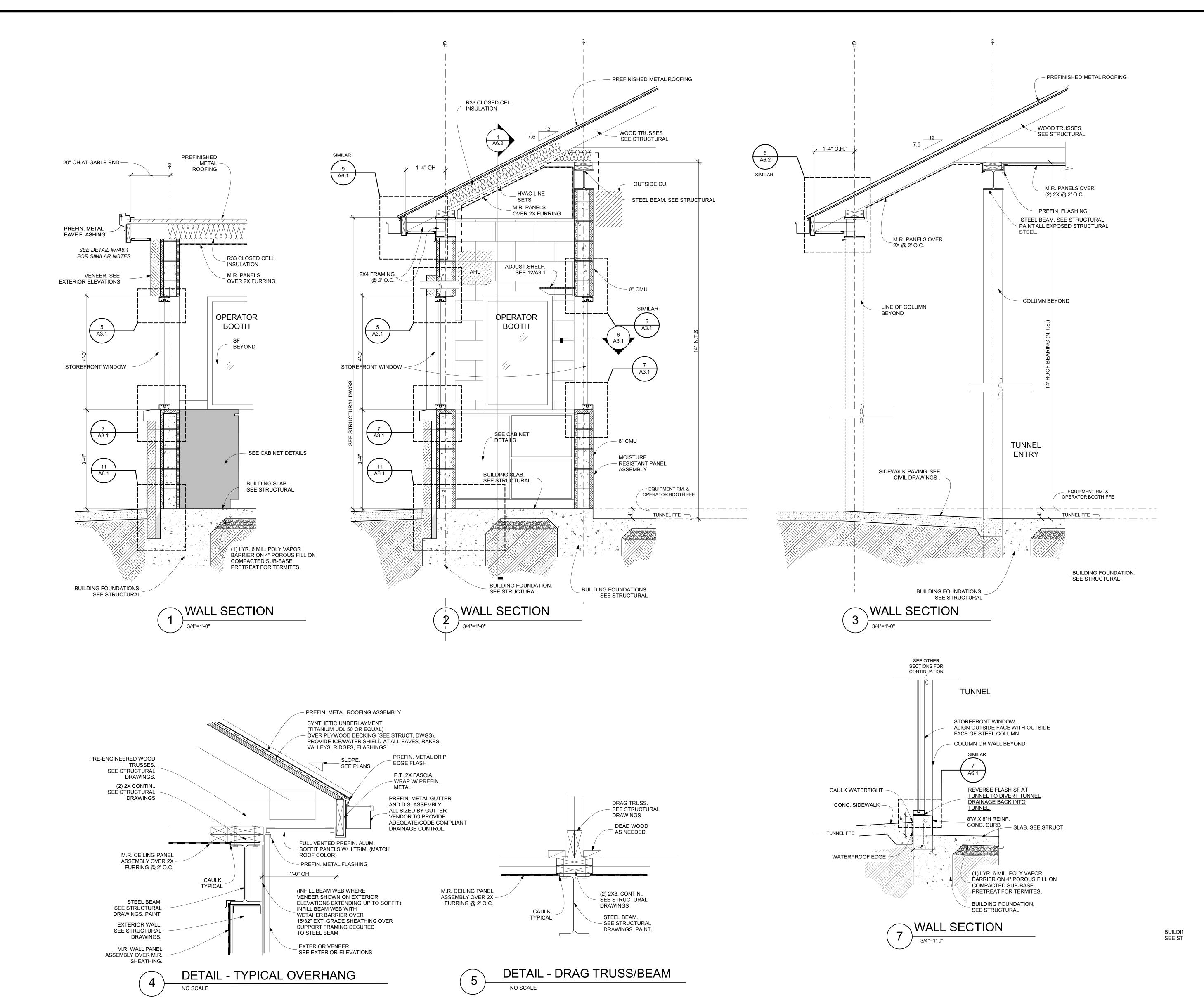
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SECTIONS/DETAILS

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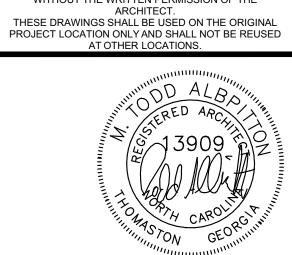
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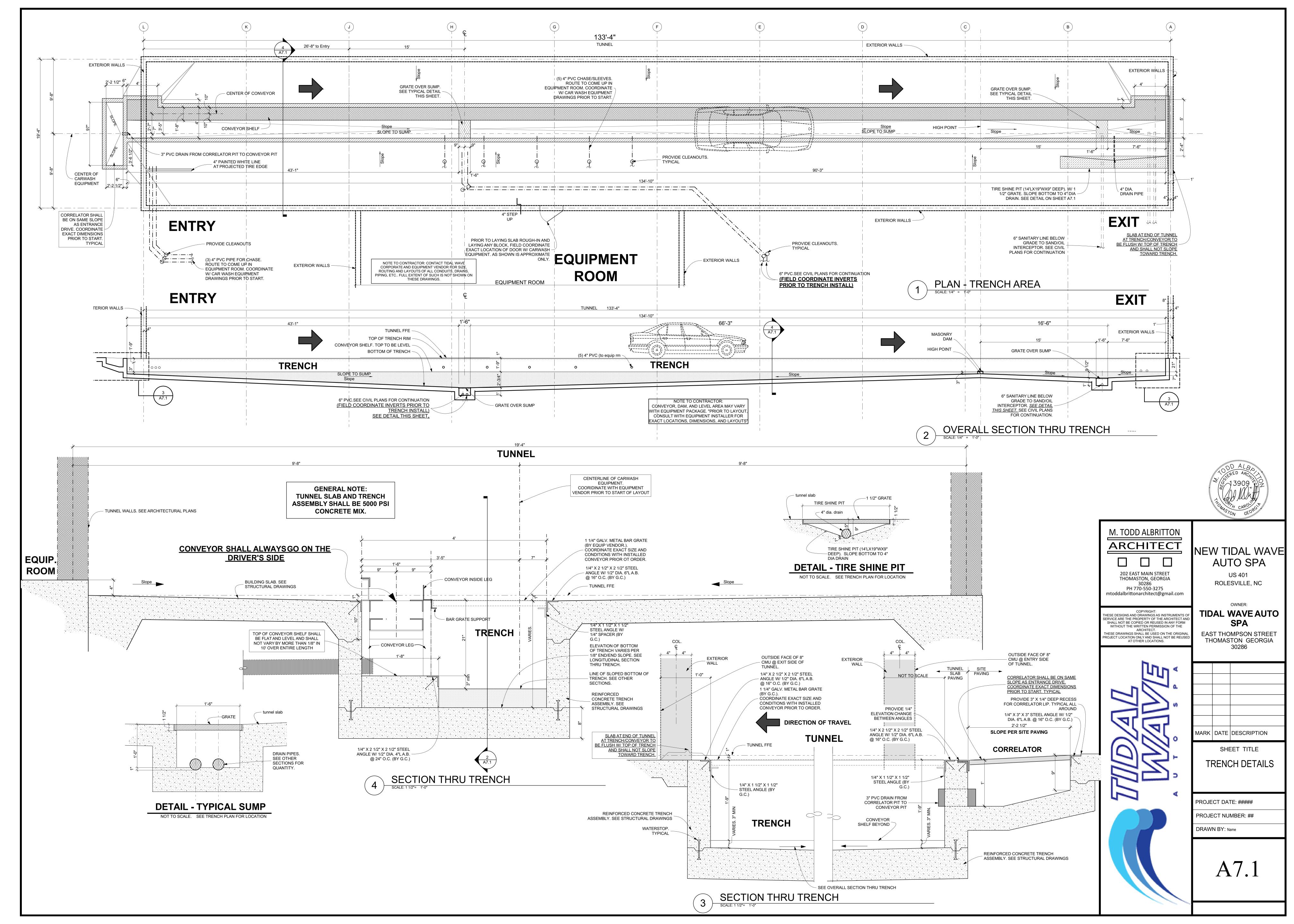
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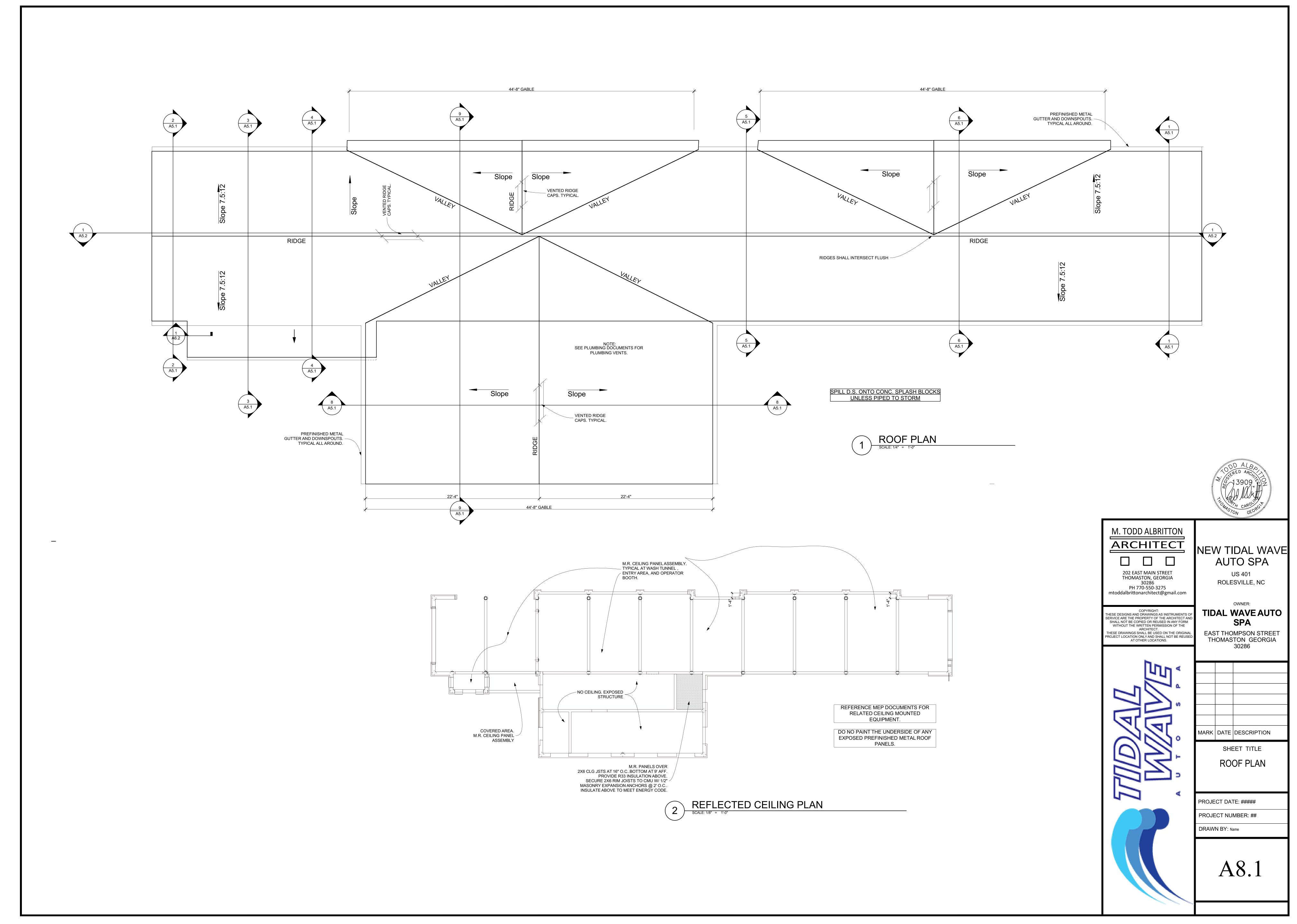
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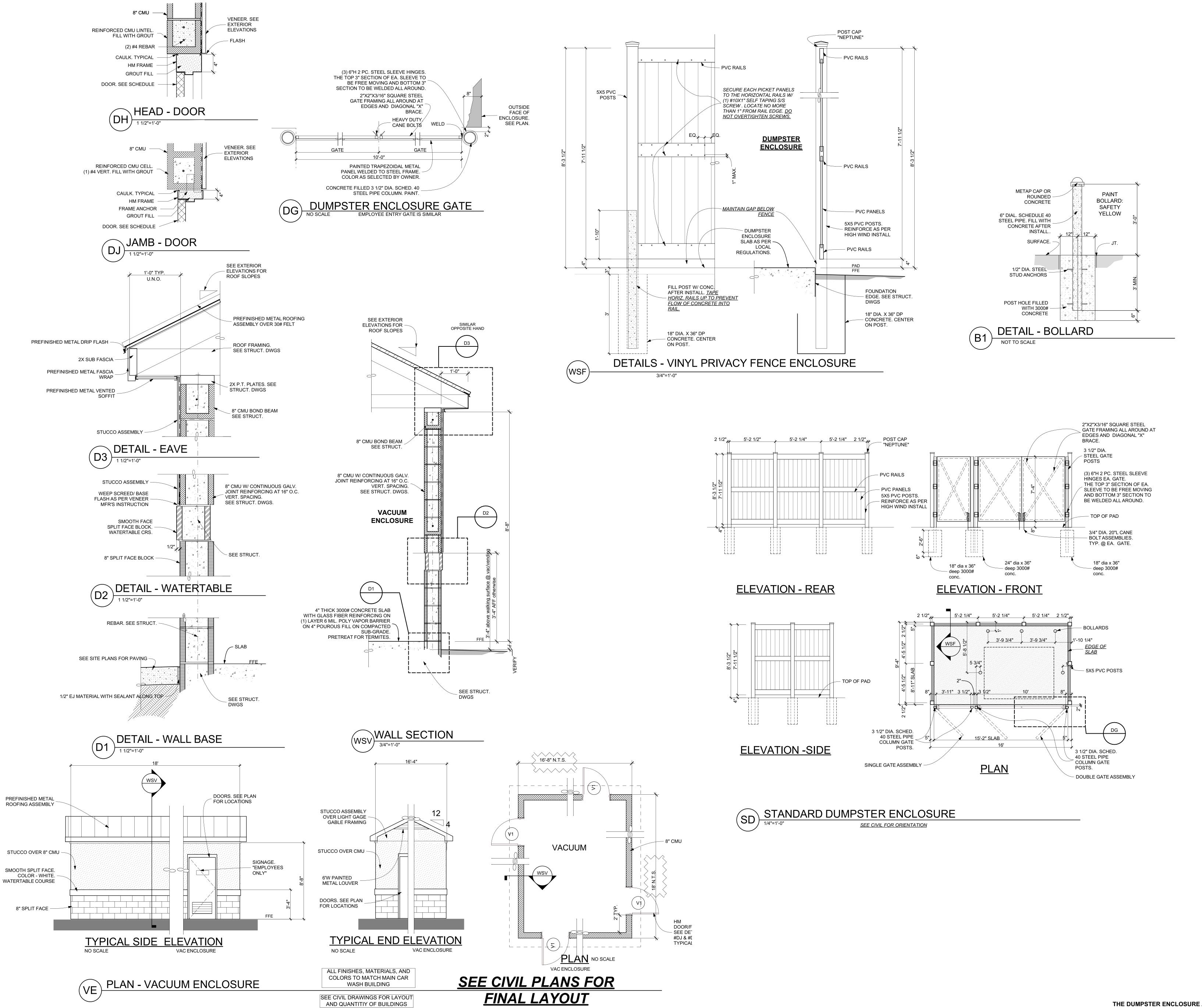
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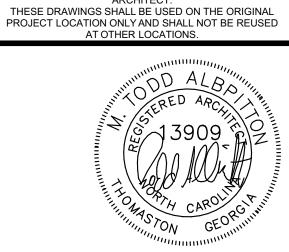


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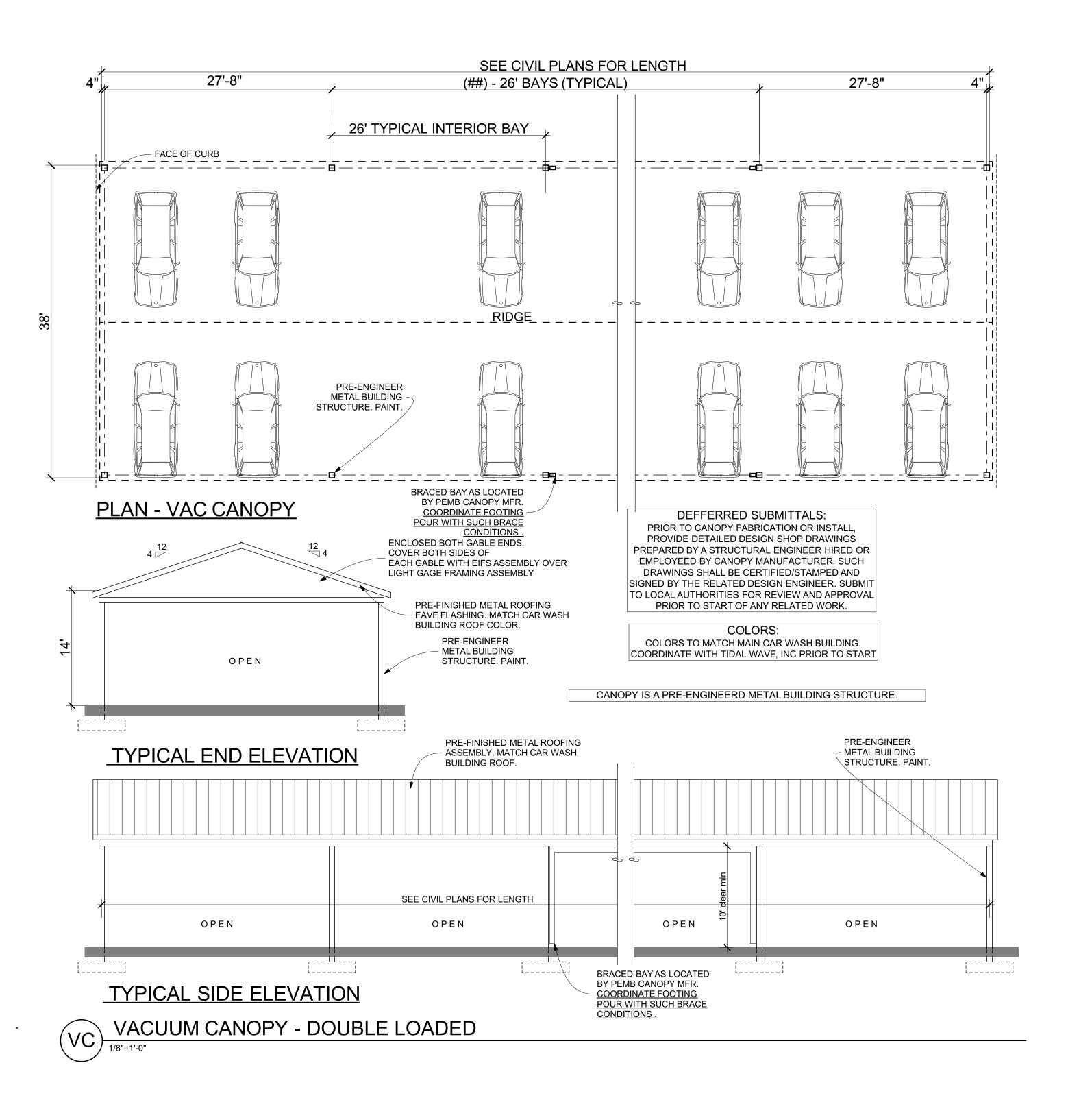
AUXILIARY BUILDINGS

PROJECT DATE: xxxxx

PROJECT NUMBER: ##

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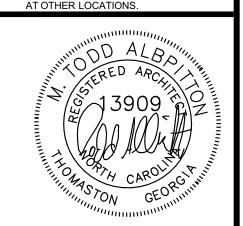


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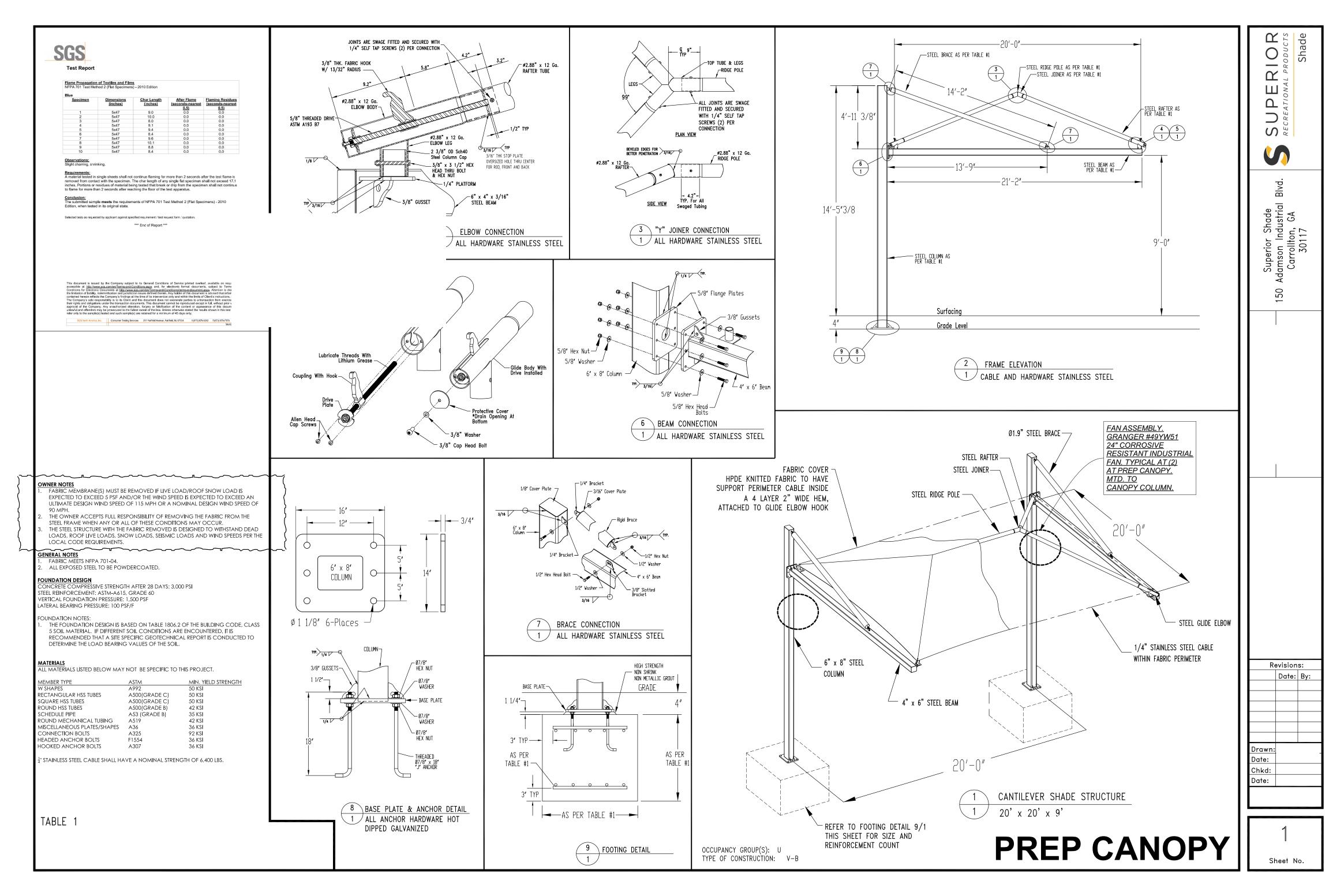
AUXILIARY BUILDINGS

PROJECT DATE: xxxxx

PROJECT NUMBER: ##

DRAWN BY: Name

AB.2



PAY CANOPY AND PREP CANOPY:

DESIGN INFORMATION INDICATED ON THIS SHEET IS DIAGRAMMATICAL IN NATURE AND NOT MEANT FOR CONSTRUCTION. FINAL DESIGN SHALL BE BY LICENSED STRUCTURAL ENGINEERS HIRED OR EMPLOYEED BY CANOPY MANUFACTURER.

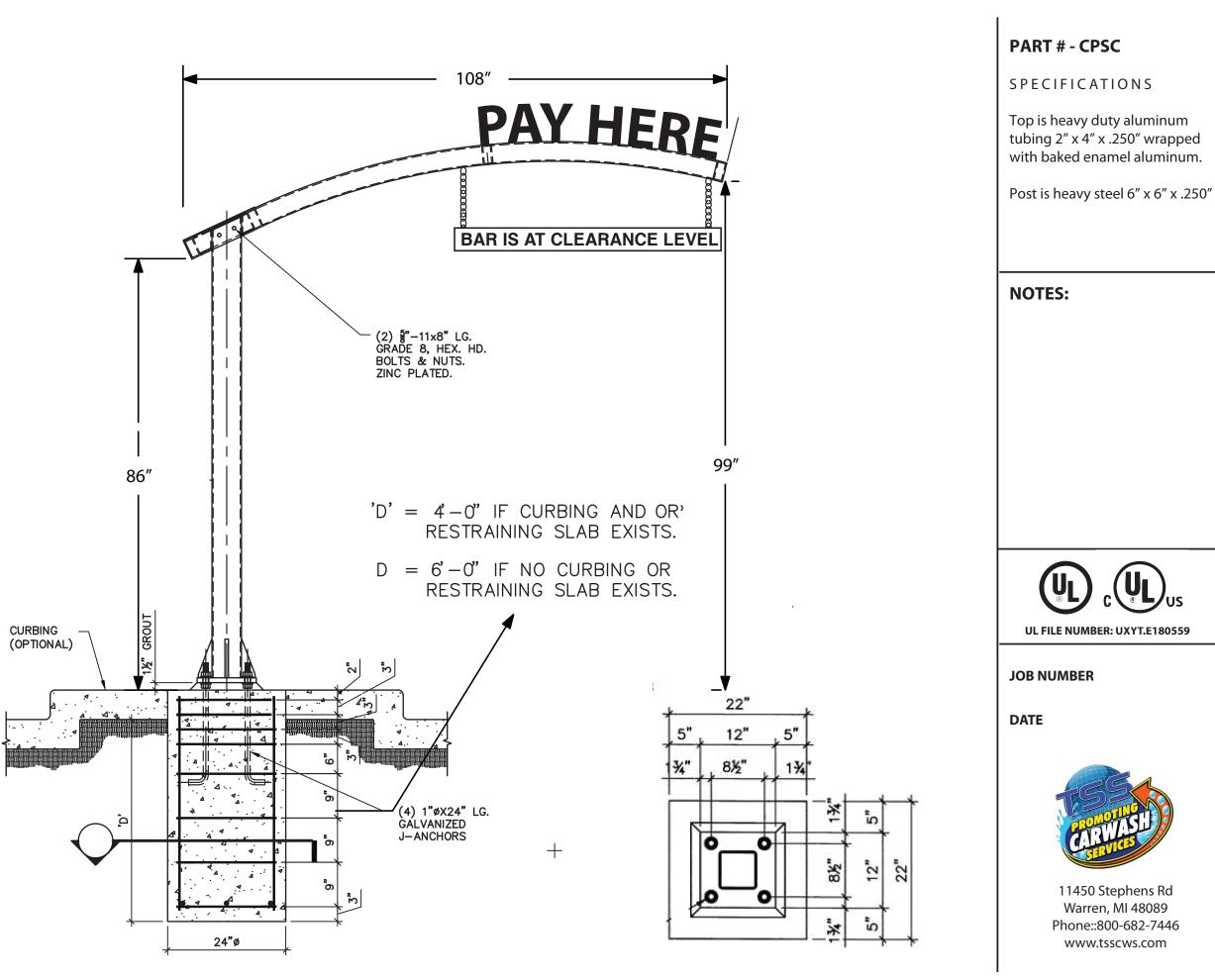
DESIGNS SHALL MEET ALL RELATED LOCAL AND STATE CODES, REGULATIONS, AND LOAD CRITERIA.

COLORS:

COLORS TO MATCH MAIN CAR WASH BUILDING. COORDINATE WITH TIDAL WAVE, INC PRIOR TO START

DEFFERRED SUBMITTALS:

PRIOR TO CANOPY FABRICATION OR INSTALL, PROVIDE DETAILED DESIGN SHOP DRAWINGS PREPARED BY A STRUCTURAL ENGINEER HIRED OR EMPLOYEED BY CANOPY MANUFACTURER. SUCH DRAWINGS SHALL BE CERTIFIED/STAMPED AND SIGNED BY THE RELATED DESIGN ENGINEER. SUBMIT TO LOCAL AUTHORITIES FOR REVIEW AND APPROVAL PRIOR TO START OF ANY RELATED WORK.



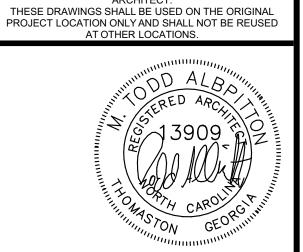
PAY CANOPY

UL FILE NUMBER: UXYT.E180559

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MARK DATE DESCRIPTION

SHEET TITLE

CANOPIES

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

AB.3

В.	Ss =	0.144
C.	S1 =	0.074
D.	SDS =	0.154
E.	SD1 =	0.117
F.	SEISMIC DESIGN CATEGORY	В
G.	BASIC SEISMIC FORCE RESISTING SYSTEM =	STEEL ORDINARY MOMENT FRAMES
H.	RESPONSE MODIFICATION COEFFICIENT, R =	3.5
I.	OVER-STRENGTH FACTOR (Ωo)	3.0
J.	DEFLECTION AMPLIFICATION FACTOR (Cd)	3.0
K.	SEISMIC RESPONSE COEFFICIENT (Cs) =	0.051
L.	LONG PERIOD TRANSITION PERIOD (TL)	8
M.	ANALYSIS PROCEDURE	EQUIVALENT LATERAL FORCE
N.	DESIGN BASE SHEAR =	5K
	LOADS:	
	GROUND SNOW LOAD	15.0 PSF
_	UNIFORM ROOF SNOW LOAD (Ps)	12.4 PSF
C.	THERMAL FACTOR (Ct)	1.2
D.	SNOW EXPOSURE FACTOR (Ce)	1.0
E.	RAIN ON SNOW SURCHARGE	0 PSF
F.	LEEWARD SNOW LOAD (UNBALANCED)	21.8 PSF

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 OCCUPANC'
- 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, FOR INSPECTION OF THE PARTICULAR TYPE OF CONSTRUCTION OR OPERATION REQUIRING SPECIAL INSPECTION.
- 4. DUTIES AND RESPONSIBILITIES OF THE SPECIAL INSPECTOR:
- A. THE SPECIAL INSPECTOR SHALL OBSERVE THE WORK ASSIGNED FOR CONFORMANCE WITH THE APPROVED DESIGN DRAWINGS AND SPECIFICATIONS. THE INSPECTOR MAY NOT ALTER, MODIFY, ENLARGE, OR WAIVE ANY
- OF THE REQUIREMENTS OF THE DOCUMENTS. B. THE SPECIAL INSPECTOR SHALL FURNISH INSPECTION REPORTS TO THE BUILDING OFFICIAL, THE PROFESSIONAL OF RECORD, AND THE CONTRACTOR. ALL DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION, THEN, IF UNCORRECTED, SUBMIT A COMPLETE LIST OF ALL OUTSTANDING DISCREPANCIES ON A WEEKLY BASIS TO THE OWNER, THE BUILDING OFFICIAL, AND THE PROFESSIONAL OF RECORD UNTIL ALL CORRECTIONS HAVE BEEN COMPLETED.
- C. THE SPECIAL INSPECTOR SHALL SUBMIT A FINAL SIGNED REPORT STATING THE WORK REQUIRING SPECIAL INSPECTION WAS, TO THE BEST OF THE INSPECTOR'S KNOWLEDGE, IN CONFORMANCE WITH THE APPROVED PLANS AND SPECIFICATIONS AND THE APPLICABLE WORKMANSHIP PROVISIONS OF THE CODE.
- 5. DUTIES AND RESPONSIBILITIES OF THE CONTRACTOR:
- A. NOTIFY THE SPECIAL INSPECTOR THAT SPECIAL INSPECTIONS ARE NEEDED. B. COORDINATE THE SCHEDULING AND TIMELY NOTIFICATION OF THE SPECIFIC INDIVIDUALS NEEDED FOR THE
- : PROVIDE DIRECT ACCESS TO THE APPROVED PLANS AND SPECIFICATIONS FOR THE PROJECT
- D. SUBMIT FABRICATORS CERTIFICATES OF COMPLIANCE, WELDER'S CERTIFICATES, AND OTHER REQUIRED
- DOCUMENTATION FOR REVIEW BY THE SPECIAL INSPECTOR. E. PROVIDE SAFE ACCESS TO THE WORK TO BE INSPECTED AND DELIVER SAMPLES FOR TESTING WHEN NEEDED.
- 6. WHERE SPECIAL INSPECTION REQUIREMENTS DUPLICATE THE REQUIREMENTS OF SPECIFIED QUALITY ASSURANCE TESTING, DUPLICATE INSPECTIONS SHALL NOT BE REQUIRED.

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 PREVENT LATER REJECTION WHEN SUCH DEFECT IS NOTED, NOR SHALL IT OBLIGATE THE OWNER'S REPRESENTATIVE FOR FINAL ACCEPTANCE.
- 3. THE TESTING AGENCY AND ITS REPRESENTATIVE ARE NOT AUTHORIZED TO REVOKE, ALTER, RELAX, ENLARGE, OR RELEASE ANY PORTION OF THE WORK, PERFORM ANY DUTIES OF THE CONTRACTOR OR BE A PARTY TO SCHEDULING OF WORK.
- 4. RECORDS OF INSPECTIONS SHALL BE KEPT AVAILABLE TO THE BUILDING OFFICIAL DURING PROGRESS OF THE WORK AND FOR TWO YEARS AFTER COMPLETION OF THE PROJECT. RECORDS SHALL BE PRESERVED BY THE INDEPENDENT
- 5. A MINIMUM OF TWENTY-FIVE PERCENT OF ALL SHOP AND FIELD COMPLETE JOINT PENETRATION GROOVE WELDS SHALL BE INSPECTED AT RANDOM. ALL FIELD COMPLETE OR PARTIAL PENETRATION GROOVE WELDS ALONG THE COLUMN BASE PLATES SHALL BE TESTED IN COMPLIANCE WITH THE GOVERNING CITY, MUNICIPAL, OR FEDERAL BODY, IF THE TESTING REQUIREMENT, BOTH IN TERMS OF QUALITY AND QUANTITY, IS DIFFERENT THAN STATED ABOVE THE MORE STRINGENT OF THE TWO REQUIREMENTS SHALL BE FOLLOWED. ANY DEVIATION FROM THIS GUIDELINE IS SUBJECT TO THE ENGINEER OF RECORD'S APPROVAL.

- 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: A. A COST SAVINGS TO THE OWNER IS DOCUMENTED AND SUBMITTED WITH THE REQUEST.
- B. THE MATERIAL OR PRODUCT HAS BEEN APPROVED BY THE ICC-ES, AND THE ICC-ES REPORT IS SUBMITTED WITH THE REQUEST. SUBMITTALS NOT SATISFYING THE ABOVE CRITERIA WILL NOT BE CONSIDERED.
- 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. THE CONTRACTOR REMAINS SOLELY RESPONSIBLE FOR ERRORS AND OMISSIONS ASSOCIATED WITH THE PREPARATION OF SHOP DRAWINGS AS THEY PERTAIN TO MEMBER SIZES, DETAILS, AND DIMENSIONS SPECIFIED IN METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES OF CONSTRUCTION. SEE SPECIFIC PROVISIONS IN THE CONTRACT DOCUMENT DEALING WITH THE APPROPRIATE DESIGN RESPONSIBILITIES OF CONTRACTORS, SUBCONTRACTORS, AND CONTRACT SUPPLIERS.
- 4. THE USE OF REPRODUCTIONS OF THESE CONTRACT DOCUMENTS BY ANY CONTRACTOR, SUBCONTRACTOR, ERECTOR, FABRICATOR, OR MATERIAL SUPPLIER IN LIEU OF PREPARATION OF SHOP DRAWINGS SIGNIFIES HIS ACCEPTANCE OF ALL INFORMATION SHOWN HEREIN AS CORRECT AND OBLIGATES HIM TO ANY JOB EXPENSE. REAL OR IMPLIED, ARISING FROM ANY ERRORS THAT MAY OCCUR HEREIN.

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: A. PRE-MANUFACTURED WOOD TRUSSES
- 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

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
- 3. NO CHANGE IN SIZE OR DIMENSION OF STRUCTURAL MEMBERS SHALL BE MADE WITHOUT THE WRITTEN APPROVAL
- 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.
- 5. THE CONTRACTOR IS RESPONSIBLE FOR LIMITING THE AMOUNT OF CONSTRUCTION LOAD IMPOSED UPON STRUCTURAL FRAMING. CONSTRUCTION LOADS SHALL NOT EXCEED THE DESIGN CAPACITY OF THE FRAMING AT THE
- TIME THE LOADS ARE IMPOSED. 6. THE STRUCTURE IS DESIGNED TO FUNCTION AS A UNIT UPON COMPLETION. THE CONTRACTOR IS RESPONSIBLE FOR

FURNISHING ALL THE TEMPORARY BRACING AND/OR SUPPORT THAT MAY BE REQUIRED AS THE RESULT OF THE

7. DO NOT SCALE THESE DRAWINGS: USE DIMENSIONS. FOR DIMENSIONS NOT SHOWN ON THE STRUCTURAL CONTRACT DOCUMENTS, SEE ARCHITECTURAL DRAWINGS.

CONTRACTOR'S CONSTRUCTION METHODS AND/OR SEQUENCES.

- 8. CONTRACTOR'S CONSTRUCTION AND/OR ERECTION SEQUENCES SHALL RECOGNIZE AND CONSIDER THE EFFECTS OF THERMAL MOVEMENTS OF STRUCTURAL ELEMENTS DURING THE CONSTRUCTION PERIOD.
- 9. THE CONTRACTOR SHALL INFORM THE PROFESSIONAL OF RECORD, IN WRITING, OF ANY DEVIATION FROM THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL NOT BE RELIEVED OF THE RESPONSIBILITY OF SUCH DEVIATION BY THE PROFESSIONAL OF RECORD, REVIEW OF SHOP DRAWINGS, PRODUCT DATA, ETC. UNLESS THE CONTRACTOR HAS SPECIFICALLY INFORMED THE PROFESSIONAL OF RECORD OF SUCH DEVIATION AT THE TIME OF SUBMISSION

AND THE ARCHITECT HAS GIVEN THE WRITTEN APPROVAL TO THE SPECIFIC DEVIATION.

- 10. WHERE A SECTION/DETAIL IS CUT ON THE PLAN, IT IS ASSUMED/UNDERSTOOD TO BE REPRESENTATIVE OF ALL LIKE OR SIMILAR CONDITIONS. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING SUCH REQUIREMENTS INTO THEIR SHOP DRAWINGS AND WORK.
- 11. AT ALL TIMES THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE CONDITIONS OF THE JOB SITE. INCLUDING SAFETY OF PERSONS AND PROPERTY. THE ARCHITECT'S OR ENGINEER'S PRESENCE AT THE JOB SITE OR REVIEW OF WORK DOES NOT IMPLY CONFIRMATION OF THE ADEQUACY OF THE CONTRACTOR'S MEANS OR METHODS OF CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE FOR COMPLIANCE WITH OSHA REGULATIONS.
- 12. CONSULT ARCHITECTURAL, MECHANICAL, AND ELECTRICAL DRAWINGS FOR LOCATION, SIZE AND EXTENT OF CHASES, INSERTS, RECESSES, RIDGES, FINISHES, DEPRESSIONS, ETC., NOT SHOWN ON THE STRUCTURAL
- 13. THE GENERAL CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND SITE CONDITIONS BEFORE STARTING WORK. THE ARCHITECT SHALL BE NOTIFIED OF ANY DISCREPANCIES.
- 14. THE CONTRACTOR SHALL VERIFY ALL FLOOR AND ROOF MOUNTED MECHANICAL EQUIPMENT WEIGHTS AS WELL AS FLOOR AND/OR ROOF OPENING SIZES AND LOCATIONS WITH ARCHITECTURAL AND MECHANICAL DRAWINGS.
- 15. THE CONTRACTOR SHALL NOTIFY, IN WRITING, THE STRUCTURAL ENGINEER OF RECORD OF CONDITIONS ENCOUNTERED IN THE FIELD WHICH ARE CONTRADICTORY TO THOSE SHOWN ON THE STRUCTURAL CONTRACT
- 16. STRUCTURAL CONTRACT DOCUMENTS SHALL NOT INCLUDE SHOP DRAWINGS, VENDOR DRAWINGS, OR ANY MATERIAL PREPARED AND SUBMITTED BY THE CONTRACTOR OR SUBCONTRACTOR.
- 17. REFERENCE TO STANDARD SPECIFICATIONS OR ANY TECHNICAL SOCIETY, ORGANIZATION OR ASSOCIATION OR TO CODES OF LOCAL OR STATE AUTHORITIES SHALL MEAN THE LATEST STANDARD, CODE SPECIFICATION OR TENTATIVE SPECIFICATION ADOPTED AND PUBLISHED AT THE DATE OF TAKING BIDS, UNLESS SPECIFICALLY STATED
- 18. SEE ARCHITECTURAL DRAWINGS FOR FLOOR ELEVATIONS, SLOPE, AND LOCATION OF DEPRESSED FLOOR AREAS. THE CONTRACTOR SHALL COMPARE STRUCTURAL SECTIONS WITH THE ARCHITECTURAL SECTIONS AND REPORT ANY DISCREPANCY TO THE ARCHITECT PRIOR TO FABRICATING OR INSTALLING STRUCTURAL MEMBERS.

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 1/2 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
- 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.
- 5. IN THE AREA OF THE BUILDING, EXISTING ORGANIC MATERIAL, UNSUITABLE SOIL, ABANDONED FOOTINGS AND ANY OTHER EXISTING UNSUITABLE MATERIALS AS IDENTIFIED BY THE GEOTECHNICAL INVESTIGATION REPORT SHALL BE REMOVED. ANY FILL MATERIAL REQUIRED AT THE SITE SHALL CONFORM TO THE REQUIREMENTS SET FORTH IN THE GEOTECHNICAL INVESTIGATION REPORT AND APPROVED BY A SOILS ENGINEER. ROCKS OF A DIAMETER GREATER THAN THAT SPECIFIED SHALL BE EXCLUDED FROM STRUCTURAL FILL LIFTS. FILL MATERIAL SHALL BE PLACED IN LOOSE LIFTS ACCORDING TO THE GEOTECHNICAL ENGINEER'S RECOMMENDATIONS AND COMPACTED TO A SPECIFIED MAXIMUM DRY DENSITY AS DETERMINED BY THE MODIFIED COMPACTION TEST (ASTM D1557). ADEQUATE
- FIELD DENSITY AND MOISTURE CONTENT TESTS SHALL BE PERFORMED TO ENSURE COMPLIANCE. 6. FOOTING CONCRETE SHALL BE CAST ON THE SAME DAY THE EXCAVATION IS APPROVED. IF THE BEARING SURFACE IS ALLOWED TO BECOME DISTURBED IN ANY WAY, IT SHALL BE REWORKED TO THE SATISFACTION OF THE TESTING ENGINEER PRIOR TO CASTING THE CONCRETE.
- 7. ALL BEARING MATERIAL SHALL BE INSPECTED BY THE INDEPENDENT TESTING AGENCY PRIOR TO CONCRETE PLACEMENT. THE INDEPENDENT TESTING AGENCY SHALL BE THE SOLE JUDGE AS TO THE SUITABILITY OF THE BEARING MATERIAL. FOOTING ELEVATIONS SHALL BE ADJUSTED AS REQUIRED.
- 8. WHEN UNSATISFACTORY OR UNCONTROLLED FILL IS ENCOUNTERED, REMOVAL AND REPLACEMENT WILL BE PAID ON THE BASIS OF UNIT PRICES SET FORTH IN THE CONTRACT.
- 9. DRAINAGE FILL SHALL BE AN EVENLY GRADED MIXTURE OF NATURAL OR CRUSHED STONE, CONFORMING TO THE REQUIREMENTS OF ASTM STANDARD C33, AND HAVING A GRADATION AS FOLLOWS:

100 % PASSING...... A 3/4" SIEVE 10-30 % PASSING...... A 1/2" SIEVE 0-10 % PASSING...... A 3/8" SIEVE 0-5 % PASSING...... A #4 SIEVE

- 10. ANY FILL WITHIN 10'-0" OF THE BUILDING LIMIT SHALL CONFORM TO THE RECOMMENDATIONS OF THE GEOTECHNICAL ENGINEER FOR PREPARATION
- 11. BACKFILL AROUND AND OVER FOUNDATION ELEMENTS SHALL BE OF SUITABLE MATERIAL, INSPECTED AND PRE-APPROVED BY THE TESTING ENGINEER.
- 12. MAXIMUM SLOPE OF EXCAVATIONS SHALL BE IDENTIFIED IN THE GEOTECHNICAL INVESTIGATION REPORT AND ADHERED TO. PROVIDE SHORING AND PROTECTION FOR EXCAVATION BANKS AS NECESSARY TO PRESERVE SAFETY
- 13. ALL BEARING STRATA SHALL BE ADEQUATELY DRAINED BEFORE FOUNDATION CONCRETE IS PLACED.
- 14. COLUMN FOOTINGS AND WALL FOOTINGS SHALL BE POURED MONOLITHIC WITH TOPS OF ADJACENT FOOTINGS AT THE SAME ELEVATION.
- 15. THERE SHALL BE NO HORIZONTAL OR VERTICAL CONSTRUCTION JOINTS IN ANY FOOTING WITHOUT PRIOR WRITTEN APPROVAL FROM THE ENGINEER.
- 16. CONCRETE CAST ON SLOPING SURFACES SHALL BEGIN AT THE LOWEST ELEVATION AND CONTINUE MONOLITHICALLY TOWARD THE HIGHER ELEVATION UNTIL THE INTENDED POUR IS COMPLETED.

- 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. 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 DESIGNS 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/SLAB, UNLESS NOTED OTHERWISE. LAP FABRIC 6" ON SIDES
- 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
- 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 I/II PORTLAND CEMENT SHALL CONFORM TO ASTM-C150.

COMPRESSIVE STRENGTH OF 6000 PSI.

- B. AGGREGATES SHALL CONFORM TO ASTM C-33. REINFORCING BARS SHALL CONFORM TO ASTM A-615 (GRADE 60).
- FORMING SHALL BE OF WOOD, STEEL, OR FIBERGLASS OF SATISFACTORY QUALITY AND CONDITION. 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
- 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

15. SCHEDULED OR DETAILED REINFORCING STEEL SHALL NOT BE TACK WELDED FOR ANY REASON. WELDED

REINFORCING STEEL SPLICES ARE NOT PERMITTED WITHOUT ENGINEER'S APPROVAL. WHERE WELDING IS

- 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 2 INCHES #6 BARS AND LARGER.
 - #5 BARS AND SMALLER.. ..1 1/2 INCHES FORMED SURFACES NOT EXPOSED TO EARTH OR WEATHER .3/4 INCHES SLABS, WALLS, AND JOISTS...
- 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. 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"
- 20. THE FLATNESS AND LEVELNESS OF THE SLAB-ON-GRADE SHALL BE DETERMINED ACCORDING TO ASTM E-1155 OR ACI 117, SLAB CLASS 5 (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
- 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 "HILTI" HIT HY-200. 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									
BAR	f'c = 3,0	000 PSI	f'c = 4,0	000 PSI	f'c = 4,5	500 PSI			
SIZE	TOP BARS	OTHER	TOP BARS	OTHER	TOP BARS	OTHER			
#3	28"	22"	25"	19"	23"	18"			
#4	38"	29"	33"	25"	31"	24"			
#5	47"	36"	41"	31"	38"	30"			
#6	56"	43"	49"	37"	46"	35"			
#7	81"	63"	71"	54"	67"	51"			
#8	93"	72"	81"	62"	76"	59"			

OF CONCRETE.

- 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%.
- 5. SPLICES OF HORIZONTAL REINFORCEMENT IN WALLS SHALL BE STAGGERED
- 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%.
- 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

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STEEL BUILDINGS, ANSI/AISC 360. STEEL SHALL CONFORM TO THE FOLLOWING GRADES:
          WIDE FLANGE SHAPES..
                                                                ASTM A992 (Fy=50ksi)
          ALL CHANNELS, ANGLES, PLATES, ETC. (UNO)...
                                                                A36 (Fv=36ksi)
          STRUCTURAL TUBES..
                                                                A500, GRADE B (Fy=46ksi)
          ANCHOR BOLTS..
                                                                F1554, GRADE 36 (Fy=36ksi)
          WELDING ELECTRODES..
                                                                E70xx
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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 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

AWS D1.1 GR B

- 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.

7. THE CONTRACTOR SHALL PROVIDE, AT NO ADDITIONAL COST, ALL ADDITIONAL STEEL CONNECTIONS, GUYING, ETC.

5. NO HOLES SHALL BE CUT IN ANY STEEL ELEMENT UNLESS THEY ARE DETAILED ON THE DRAWINGS.

FABRICATION, AND FOR THE CORRECT FITTING OF STRUCTURAL STEEL MEMBERS.

- 6. UNLESS OTHERWISE SHOWN ON THE DRAWINGS, THE SIZE OF WELDS SHALL NOT BE SMALLER THAN 1/4".
- 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
- 10. ALL TUBES REQUIRE AN END PLATE AT EACH END WITH A THICKNESS EQUAL TO OR GREATER THAN THE TUBE'S WALL THICKNESS.

MASONRY:

REQUIRED FOR ERECTION.

HEADED STUDS..

- CODE: AMERICAN CONCRETE INSTITUTE (ACI) 530 (LATEST EDITION)
- 2. MASONRY SHALL BE LIGHTWEIGHT AND HAVE A MINIMUM COMPRESSIVE STRENGTH, f'm, 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

COLD DRAWN STEEL WIRE COMPLYING WITH ASTM A82. JOINT REINFORCING SHALL BE SPACED AT 16" O.C.

WITH A SINGLE PAIR OF 9 GAGE SIDE RODS AND 9 GAGE CONTINUOUS DIAGONAL CROSS RODS FABRICATED FROM

- 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 6 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 200 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 8" 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.

SIMPSON STRONG-TIE COMPANY OR EQUAL.

- 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 B. PRODUCT STANDARD PS 20 "AMERICAN SOFTWOOD LUMBER STANDARD" BY ALSC.

. PLYWOOD CONFORMING TO APA-THE ENGINEERED WOOD ASSOCIATION.

D. METAL PLATE-CONNECTED WOOD TRUSS DESIGN CONFORMING TO "DESIGN SPECIFICATIONS FOR LIGHT METAL PLATE CONNECTED WOOD TRUSSES" BY TRUSS PLATE INSTITUTE (TPI) AND TPI QUALITY CONTROL

2. ALL TIMBER SHALL BE #2 SOUTHERN YELLOW PINE (MOISTURE CONTENT 19% MAX.) OR EQUAL UNLESS NOTED

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

- 4. TRUSS MEMBERS AND CONNECTOR PLATES SHALL BE DESIGNED IN ACCORDANCE WITH TRUSS PLATE INSTITUTE SPECIFICATIONS FOR THE LOADING STATED BELOW. 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 HFT-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

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.
- 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
- 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 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"

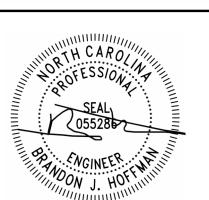
15. ALL NAILS, BOLTS, SCREWS, AND LAG SCREWS SHALL BE HOT-DIP GALVANIZED OR STAINLESS STEEL. WOOD CONNECTOR HARDWARE SHALL BE HOT-DIP GALVANIZED. "Z-MAX" GALVANIZED OR TYPE 316 STAINLESS STEEL. ALL GALVANIZED FASTENERS SHALL BE USED WITH GALVANIZED HARDWARE AND STAINLESS STEEL FASTENERS SHALL BE USED WITH STAINLESS STEEL HARDWARE.

Willett

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SEAL:

DRAWING TITLE: **GENERAL NOTES**

REVISIONS:							
NO.	DESCRIPTION	DATE					
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DRAWN BY: CHECKED BY: SHEET NO:

223518

BJH

12/29/2023

PROJECT NUMBER:

POST-INSTALLED ANCHORS:

- POST-INSTALLED ANCHORS SHALL ONLY BE INSTALLED WHERE SPECIFIED ON THE CONTRACT DRAWINGS. POST-INSTALLED
 ANCHORS SHALL NOT BE USED FOR MISSING OR MIS-PLACED CAST-IN-PLACE ANCHORS WITHOUT PERMISSION FROM THE
 ENGINEER OF RECORD.
- 2. TESTING, SCANNING, AND LOCATING OF EXISTING REINFORCEMENT IS REQUIRED PRIOR TO INSTALLATION OF POST-INSTALLED ANCHORS TO AVOID INTERFERENCE AND/OR DAMAGE TO IN-PLACE REINFORCEMENT.
- 3. SUBSTITITION REQUESTS FOR SPECIFIED POST-INSTALLED ANCHORS SHALL BE ACCOMPANIED BY ADEQUATE CALCULATIONS BY A ENGINEER LICENSED IN THE PROJECT STATE THAT THE REQUESTED ANCHOR MEETS OR EXCEEDS THAT OF WHAT IS
- 4. MECHANICAL ANCHORS SHALL BE TESTED AND ASSESSED IN ACCORDANCE WITH THE MOST RECENT EDITION OF ACI 355.2 QUALIFICATION OF POST INSTALLED MECHANICAL ANCHORS IN CONCRETE AND COMMENTARY.
- 5. ADHESIVE ANCHOR SYSTEMS SHALL BE TESTED AND ASSESSED IN ACCORDANCE WITH THE MOST RECENT EDITION OF ACI 355.4 QUALIFICATION OF POST-INSTALLED ADHESIVE ANCHORS IN CONCRETE (355.4) AND COMMENTARY. BULKMIXED (E.G., BUCKET-MIXED) ADHESIVES ARE NOT PERMITTED.
- 6. CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH (fc) OF 2,500 PSI AT THE TIME OF ADHESIVE ANCHOR INSTALLATION.
- 7. CONCRETE AT TIME OF ADHESIVE ANCHOR INSTALLATION SHALL HAVE A MINIMUM AGE OF 21 DAYS. FOR INSTALLATION OF ADHESIVE ANCHORS IN CONCRETE HAVING AN AGE LESS THAN 21 DAYS, TESTS SHALL BE CONDUCTED TO VERIFY THE PERFORMANCE OF THE PRODUCT IN ACCORDANCE WITH ACI 355.4.
- 8. THE CONCRETE TEMPERATURE AT THE TIME OF ADHESIVE ANCHOR INSTALLATION SHALL BE AT LEAST 50°F UNLESS TESTING HAS BEEN CONDUCTED IN ACCORDANCE WITH RECOGNIZED CRITERIA TO VERIFY PERFORMANCE IN CONCRETE AT LOWER TEMPERATURES.
- 9. ADHESIVE ANCHORS SHALL BE SUPPLIED AS AN ENTIRE SYSTEM. THE SYSTEM SHALL INCLUDE, BUT IS NOT LIMITED TO, MANUFACTURERS PRINTED INSTALLATION INSTRUCTIONS (MPII) AS SUPPLIED WITH THE ADHESIVE, ADHESIVE CARTRIDGE, MIXING NOZZLE, EXTENSION TUBE, DISPENSER, AND ALL REQUIRED EQUIPMENT FOR PROPERLY CLEANING THE DRILLED HOLE.
- 10. ALL-THREADED ROD (EYEBOLTS, THREADED STUDS, INTERNAL THREADED PARTS) TO BE USED IN ADHESIVE ANCHOR ASSEMBLIES SHALL CONFORM TO ASTM A36, F1554 OR OTHER APPROVED ANCHOR ASSEMBLY TYPES. (STAINLESS STEEL ANCHOR RODS SHALL BE AISI TYPE 304 OR TYPE 316.) THREADS SHALL BE UNC COARSE THREADS, UNLESS NOTED OTHERWISE. COMPATIBLE NUTS AND WASHERS SHALL BE FURNISHED WITH THE ALL-THREAD ROD AND CONSIDERED PART OF THE ASSEMBLY. WITH HOT-DIPPED GALVANIZED RODS, USE OVERSIZED TAPPED, HOT-DIPPED GALVANIZED NUTS.
- 11. NUTS, WASHERS, AND OTHER HARDWARE USED WITH AN ALL-THREADED BAR ADHESIVE ANCHOR SYSTEM OR WITH A MECHANICAL EXPANSION ANCHOR SHALL HAVE A MATERIAL OR AN ALLOY DESIGNATION THAT IS COMPATIBLE WITH THE ANCHOR ROD/ALLOY. GALVANIZED ASSEMBLIES SHALL BE HOT-DIP GALVANIZED IN ACCORDANCE WITH ASTM A153 CLASS C. ELECTROPLATE GALVANIZING IS NOT ACCEPTABLE. DISSIMILAR METAL ASSEMBLIES SHALL BE SEPARATED BY NYLON, EPDM, OR OTHER APPROVED NON-METALLIC WASHERS.
- 12. REINFORCING BARS TO BE USED IN ADHESIVE ANCHOR ASSEMBLIES OR AS POST-INSTALLED REINFORCING SHALL CONFORM TO ASTM A615, A706, A995, OR A1035.
- 13. THE EMBEDMENT DEPTH SPECIFIED SHALL BE DEFINED AS THE DEPTH FROM THE BASE MATERIAL TO THE DEEPEST PART OF THE ANCHOR AFTER THE ANCHOR HAS BEEN FULLY INSTALLED.
- 14. ADHESIVE CARTRIDGES SHALL BE STORED UNDER CONDITIONS IN COMPLIANCE WITH MANUFACTURER RECOMMENDATIONS REGARDING TEMPERATURE, EXPOSURE TO SUNLIGHT, ETC. AND EVIDENCE OF COMPLIANCE SHALL BE MADE AVAILABLE UPON REQUEST. THE USE OF EXPIRED ADHESIVE, AS INDICATED BY THE EXPIRATION DATE ON THE CARTRIDGE, IS PROHIBITED.
- 15. ADHESIVE ANCHORS SHALL BE INSTALLED BY QUALIFIED PERSONNEL TRAINED TO INSTALL ADHESIVE ANCHORS IN ACCORDANCE WITH THE SPECIFICATIONS (ALT: CONTRACT DOCUMENTS). BOTH POST-INSTALLED EXPANSION AND ADHESIVE ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS (MPII).
- 16. ADHESIVE ANCHORS WITH DIAMETER GREATER THAN 3/8- INCH INSTALLED IN ORIENTATIONS FROM HORIZONTAL TO VERTICAL SHALL EMPLOY A PISTON PLUG FOR THE ADHESIVE INJECTION.
- 17. INSTALLATION OF ADHESIVE ANCHORS IN ORIENTATIONS FROM HORIZONTAL TO VERTICAL TO SUPPORT SUSTAINED TENSION LOADS SHALL BE PERFORMED BY PERSONNEL CERTIFIED BY THE ACI ADHESIVE ANCHOR INSTALLER CERTIFICATION PROGRAM OR EQUIVALENT.
- OR EQUIVALENT.

 18. THE CONTRACTOR SHALL PROVIDE ALL EQUIPMENT REQUIRED TO INSTALL THE EXPANSION AND/OR ADHESIVE ANCHOR INCLUDING, BUT NOT LIMITED TO, DRILLS, SETTING TOOLS, CLEAN-OUT BRUSHES, BLOWOUT BULBS, OIL-FREE COMPRESSED AIR,
- 19. UNLESS OTHERWISE SPECIFIED, ANCHORS SHALL BE INSTALLED IN HOLES DRILLED WITH A ROTARY IMPACT HAMMER DRILL OR, WHERE NOT OTHERWISE PRESCRIBED, A ROCK DRILL. WHERE SPECIFIED AND WHERE PERMITTED BY THE MPII, HOLES MAY BE
- DRILLED WITH A DIAMOND CORE DRILL. IN ALL CASES, THE BIT DIAMETER SHALL BE IN ACCORDANCE WITH THE MPII.

 20. ANCHOR HOLES SHALL BE THOROUGHLY CLEANED IN ACCORDANCE WITH THE PROCEDURES SPECIFIED IN THE MPII PRIOR TO
- 21. DRILLED AND CLEANED ANCHOR HOLES SHALL BE PROTECTED FROM CONTAMINATION AND WATER (E.G. RAIN) UNTIL THE
- 22. A DRILLED ANCHOR HOLE SHALL BE RE-CLEANED JUST PRIOR TO ADHESIVE INJECTION IF, IN THE OPINION OF THE ENGINEER, INSPECTOR, OR OWNER'S REPRESENTATIVE, THE HOLE HAS BECOME CONTAMINATED AFTER INITIAL CLEANING.
- 23. ADHESIVE SHALL BE INJECTED IN ACCORDANCE WITH THE MPII USING EQUIPMENT AND PROCEDURES AS SPECIFIED THEREIN FOR THE SPECIFIC CONDITIONS ASSOCIATED WITH THE INJECTION. THIS SHOULD BE CLEARLY SPECIFIED IN THE MPII, IF NOT, ANOTHER PRODUCT SHOULD BE SPECIFIED.
- 24. ANCHOR ELEMENTS TO BE INSTALLED IN THE ADHESIVE SHALL BE CLEAN, OIL-FREE, AND FREE OF LOOSE RUST, PAINT, OR OTHER COATINGS. THREADS ON THE PROJECTING PORTION OF THE ANCHOR ELEMENT SHALL BE PROTECTED FROM ADHESIVE CONTAMINATION.
- 25. INSTALLED ADHESIVE ANCHORS SHALL BE SECURELY FIXED IN-PLACE TO PREVENT DISPLACEMENT WHILE THE ADHESIVE CURES. UNLESS SHOWN OTHERWISE ON THE DRAWINGS, ANCHORS SHALL BE INSTALLED PERPENDICULAR TO THE CONCRETE SURFACE. ANCHORS DISPLACED BEFORE FULL ADHESIVE CURE SHALL BE CONSIDERED DAMAGED AND REPLACED AT THE CONTRACTOR'S EXPENSE.
- 26. POST-INSTALLED REINFORCING BARS OR ALL-THREADED BARS SHALL NOT BE BENT AFTER BEING INSTALLED.

STUDS, JOISTS, HEADERS, ETC.

NAILING SCHEDULE								
CONNECTION	FASTENER	# OR SPACING						
BRIDGING TO JOIST TOE NAIL EACH END	8D COMMON	2						
JOIST TO SILL OR GIRDER TOE NAIL	8D COMMON	3						
1"x6" SUBFLOOR OR LESS TO EACH JOIST, FACE NAIL	8D COMMON	2						
WIDER THAN 1"x6" SUBFLOOR TO EACH JOIST, FACE NAIL	8D COMMON	3						
2-INCH SUBFLOOR TO JOIST OR GIRDER, BLIND & FACE NAIL	16D COMMON	2						
SOLE PLATE TO JOIST OR BLOCKING, FACE NAIL	16D COMMON	16" O.C.						
TOP OR SOLE PLATE TO STUD, END NAILED	16D COMMON	2						
STUD TO SOLE PLATE, TOE NAIL	8D COMMON	4						
DOUBLED STUDS, FACE NAIL	16D COMMON	24" O.C.						
DOUBLED TOP PLATES, FACE NAIL	16D COMMON	16" O.C.						
BLOCKING BETWEEN JOISTS TO TOP PLATE. TOE NAIL	8D COMMON	3						
RIM JOIST TO TOP PLATE, TOE NAIL	8D COMMON	6" O.C.						
TOP PLATES, LAP AND INTERSECTIONS FACE NAIL	16D COMMON	2						
CONTINUOUS HEADER, TWO PIECES	16D COMMON	16" O.C. ALONG EA. EDGE						
CEILING JOISTS TO PLATES, TOE NAIL	8D COMMON	3						
CONTINUOUS HEADER TO STUD, TOE NAIL	8D COMMON	4						
CEILING JOISTS, LAPS OVER PARTITIONS, FACE NAIL	16D COMMON	3						
CEILING JOISTS TO PARALLEL RAFTERS, FACE NAIL	16D COMMON	3						
RAFTER TO PLATE, TOE NAIL	8D COMMON	3						
1-INCH BRACE TO EACH STUD & PLATE, FACE NAIL	8D COMMON	2						
1"x8" SHEATHING OR LESS TO EACH BEARING, FACE NAIL	8D COMMON	3						
WIDER THAN 1"x8" SHEATHING TO EACH BEARING, FACE NAIL	8D COMMON	3						
BUILT CORNER STUDS EACH BEARING, FACE NAIL	16D COMMON	24" O.C.						
BUILT GIRDERS & BEAMS, FACE NAIL	20D COMMON	32" O.C. AT TOP & BOTTOM STAGGERED ON OPPOSITE SIDES						
2-INCH PLANKS	16D COMMON	AT EACH BEARING						
JOIST TO BAND JOIST, FACE NAIL	16D COMMON	3						
LEDGER STRIP, FACE NAIL	16D COMMON	3 AT EACH JOIST						

SHEATHING @ NON-SHEAR WALL LOCATIONS

PLYWOOD AND O.S.B. BOARD WALL SHEATHING

THICKNESS	FASTENER	NUMBER OR SPACING
1/2" OR LESS	6D COMMON	6" O.C. EDGES AND 12" O.C. INTERMEDIATE
5/16", 1/2"	16 GA GALV. WIRE STAPLES, 3/8" MIN. CROWN	4" O.C. EDGES AND 8" O.C. INTERMEDIATE

FIBERBOARD AND GYPSUM WALL SHEATHING						
THICKNESS	FASTENER	NUMBER OR SPACING				
1/2" FIBERBOARD SHEATHING	1 1/2" GALV. ROOFING NAIL 6D COMMON WALL	3" O.C. AT EDGES / 6" O.C. AT OTHER BEARING				
1/2" GYPSUM SHEATHING	11 GA 1 1/2" GALV. 7/16" HEAD	4" O.C. AT EDGES / 8" O.C. AT OTHER BEARING				
1/2" GYPSUM WALLBOARD	1 3/8" DRY- WALL NAIL	7" O.C. ON CEILING / 8" O.C. ON WALLS				

NOTES:

1. FOR ALL EXTERIOR WOOD STUD WALLS NOT DESIGNATED AS SHEAR WALLS PROVIDE 1/2" THICK STRUCT I PLYWOOD SHEATHING W/ 8d NAILS @ 6" O.C. @ PANEL EDGES, AND @ 12" O.C. @ FIELD AT EXTERIOR FACES

(INCLUDING CANOPIES).

2. PROVIDE 1/2" THICK STRUCT I PLYWOOD SHEATHING W/ 8d NAILS @ 6" O.C. @ PANEL EDGES, AND @ 12" O.C. @ FIELD FOR EAVES AND CANOPY CEILINGS.

IBC NAILING SCHEDULE

SCHEDULE OF S	PECIAL INS	PEC	TIONS SEF	RVICES	
MATERIAL / ACTIVITY	SERVICE	<u>Y/N</u>	<u>EXTENT</u>	AGENT	DATE COMPLETED
1705.1.1 Special Cases 1. Inspection of anchors post-installed in solid					GOWN ELTED
grouted masonry: Per research reports including verification of anchor type, anchor dimensions, hole dimensions, hole cleaning procedures, anchor	Field in a restion	\ \ \	Periodic or as required by the		
spacing, edge distances, masonry unit, grout, masonry compressive strength, anchor embedment	Field inspection	Y	research report issued by an approved source		
and tightening torque 2. Aggregate Pier Inspection: The special					
inspector's responsibilities include, but are not limited to, review of the aggregate pier designer's use of soil parameters as presented in the project					
soils report, and during construction, verification of aggregate properties, type and number of lifts of aggregate, hole size and depths and top elevations			Periodic or as required by the		
of the pier elements, and applied energy. Additionally, results of qualitative tests on	Field inspection	N	research report issued by an approved source		
production aggregate pier elements such as modulus load testing, uplift pull-out testing, bottom stabilization tests and dynamic cone penetration			approved source		
tests, shall be reviewed to verify compliance with design specifications.					
1705.2.1 Structural Steel Construction 1. Fabricator and erector documents (Verify reports and certificates as listed in AISC 360, Section N 3.2	Submittal Review	Υ	Each submittal		
for compliance with construction documents)	Shop (3) and field				
Material verification of structural steel Structural steel welding:	inspection	Y	Periodic		
a. Inspection tasks Prior to Welding (Observe, or perform for each welded joint or member, the QA tasks listed in AISC 360, Table N5.4-1)	Shop (3) and field inspection	Y	Observe or Perform as noted (4)		
b. Inspection tasks During Welding (Observe, or perform for each welded joint or member, the QA	Shop (3) and field inspection	Y	Observe (4)		
tasks listed in AISC 360, Table N5.4-2) c. Inspection tasks After Welding (Observe, or perform for each welded joint or member, the QA	Shop (3) and field	Y	Observe or Perform as noted		
tasks listed in AISC 360, Table N5.4-3) d. Nondestructive testing (NDT) of welded joints:	inspection		(4)		
see Commentary 1) Complete penetration groove welds 5/16" or	Shop (3) or field ultrasonic testing -	N	Periodic		
greater in risk category III or IV	100% Shop (3) or field	IN	Periodic		
2) Complete penetration groove welds 5/16" or greater in risk category II	ultrasonic testing - 10% of welds minimum	Y	Periodic		
3) Welded joints subject to fatigue when required by	Shop (3) or field radiographic or	Y	Periodic		
AISC 360, Appendix 3, Table A-3.1 4) Fabricator's NDT reports when fabricator	Ultrasonic testing Verify reports	Y	Each submittal (5)		
performs NDT 4. Structural steel bolting:	Shop (3) and field inspection		Each submittal (5)		
a. Inspection tasks Prior to Bolting (Observe, or perform tasks for each bolted connection, in		Y	Observe or Perform as noted		
accordance with QA tasks listed in AISC 360, Table N5.6-1) b. Inspection tasks During Bolting (Observe the QA			(4)		
tasks listed in AISC 360, Table N5.6-2) b. Inspection tasks During Bolting (Observe the QA		Y	Observe (4)		
tasks listed in AISC 360, Table N5.6-2) 1) Pre-tensioned and slip-critical joints			Observe (4)		
a) Turn-of-nut with matching markings b) Direct tension indicator Thirty for the standard like the s		Y	Periodic Periodic		
c) Twist-off type tension control bolt d) Turn-of-nut without matching markings e) Calibrated wrench		Y Y Y	Periodic Continuous Continuous		
Snug-tight joints Visual inspection of exposed cut surfaces of		Y	Periodic		
galvanized structural steel main members and exposed corners of the rectangular HSS for cracks	Shop (3) or field inspection	Y	Periodic		
subsequent to galvanizing 6. Embedments (Verify diameter, grade, type, length, embedment. See 1705.3 for anchors)	Field inspection	Υ	Periodic		
7. Verify member locations, braces, stiffeners, and application of joint details at each connection	Field inspection	Y	Periodic		
comply with construction documents 1705.3 Concrete Construction	Oh (0) d field				
Inspection and placement verification of reinforcing steel and prestressing tendons. Reinforcing bar welding:	Shop (3) and field inspection	Y	Periodic		
a. Verification of weldability of bars other than ASTM A706.		N	Periodic		
b. Inspection of single-pass fillet welds 5/16 or less in size.		N	Periodic		
c. Inspection of all other welds.3. Inspection of anchors cast in concrete.	Shop (3) and field inspection	N Y	Continuous Periodic		
4. Inspection of anchors post-installed in hardened concrete members per research reports, or, if no					
specific requirements are provided, requirements shall be provided by the registered design professional and approved by the building official,			Periodic or as required by the		
including verification of anchor type, anchor dimensions, hole dimensions, hole cleaning procedures, anchor spacing, edge distances,	Field inspection	Y	research report issued by an approved source		
concrete minimum thickness, anchor embedment and tightening torque					
Adhesive anchors installed in horizontal or upward-inclined orientation that resist sustained to resist leads.		Y	Continuous		
tension loads. b. Mechanical and adhesive anchors note defined in 4a.		Y	Periodic		
Verify use of approved design mix	Shop (3) and field inspection	Y	Periodic		
6. Prior to placement, fresh concrete sampling, perform slump and air content tests and determine temperature of concrete and perform any other	Shop (3) and field inspection	Y	Continuous		
tests as specified in construction documents. 7. Inspection of concrete and shotcrete placement	Shop (3) and field	Y	Continuous		
for proper application techniques 8. Verify maintenance of specified curing	inspection Shop (3) and field	Y	Continuous Periodic		
temperature and techniques 9. Inspection of prestressed concrete:	inspection Shop (3) and field inspection				
a. Application of prestressing force b. Grouting of bonded prestressing tendons		N N	Continuous Continuous		
10. Inspect erection of precast concrete members11. Verification of in-situ concrete strength, prior to	Review field testing	N	Periodic		
stressing of tendons in post tensioned concrete and prior to removal of shores and forms from beams and structural slabs	and laboratory reports	Y	Periodic		
12. Inspection of formwork for shape, lines, location and dimensions	Field inspection	Υ	Periodic		
13. Concrete strength testing and verification of compliance with construction documents	Field testing and review of laboratory reports	Y	Periodic		
1705.4 Masonry Construction (A) Level 1, 2 and 3 Quality Assurance:	Тороно				
Prior to construction, verification of compliance of submittals	Submittal Review	Υ	Prior to Construction		
(B) Level 2 & 3 Quality Assurance: 1. Prior to construction verification of f'm and f'AAC	Testing by unit	Y	Prior to		
except where specifically required by the code 2. During construction, verification of Slump Flow	strength method or prism test method Testing by unit	Y	Construction		
and Visual Stability Index (VSI) when self-consolidating grout is delivered to project site.	strength method or prism test method	Y	Periodic		
(C) Level 3 Quality Assurance:	Shop (3) and field inspection Testing by unit	Y	Periodic		
During construction, verification of f'm and f'AAC for every 5,000 SF	strength method or prism test method	N	Periodic		
2. During construction, verification of proportions of materials as delivered to the project site for premixed or preblended mortar, prestressing grout,	Field inspection	Y	Periodic		
and grout other than self-consolidating grout. (D) Levels 2 and 3 Quality Assurance:					
As masonry construction begins, verify that the following are in compliance:	E		5 · · · ·		
a. Proportions of the site-prepared mortar b. Grade and size of prestressing tendons and anchorages	Field inspection Field Inspection	Y N	Periodic Periodic		
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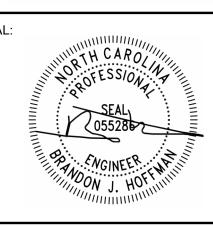
MATERIAL / ACTIVITY	SERVICE	<u>Y/N</u>	EXTENT	<u>AGENT</u>	D/ COMF
c. Grade, type, and size of reinforcement, anchor bolts, and prestressing tendons and anchorages	Field Inspection	Y	Periodic		
d. Prestressing technique	Field Inspection				
e. Properties of thin-bed mortar for AAC masonry	Field Inspection	N	Level 2 - Periodic, Level 3 - Continuous		
f. Sample panel construction	Field Inspection	N	Level 2 - Periodic, Level 3 - Continuous		
Prior to grouting, verify that the following are in compliance:					
a. Grout space	Field Inspection	Y	Level 2 - Periodic, Level 3 - Continuous		
b. Placement of prestressing tendons and anchorages	Field Inspection	N	Periodic		
c. Placement of reinforcement, connectors, and anchor bolts	Field Inspection	Y	Level 2 - Periodic, Level 3 - Continuous		
d. Proportions of site-prepared grout and prestresssing grout for bonded tendons	Field Inspection	Y	Periodic		
Verify compliance of the following during construction:					
a. Materials and procedures with the approved submittals	Field Inspection	Y	Periodic		
b. Placement of masonry units and mortar joint construction	Field Inspection	Y	Periodic		
c. Size and location of structural members	Field Inspection	Y	Periodic		
d. Type, size, location of anchors, including other details of anchorage of masonry to structural members, frames, or other construction	Field Inspection	Y	Level 2 - Periodic, Level 3 - Continuous		
e. Welding of reinforcement	Field Inspection	N	Continuous		
f. Preparation, construction, and protection of masonry during cold weather (temperature below 40oF) or hot weather (temperature above 90oF)	Field Inspection	N	Periodic		
g. Application and measurement of prestressing force	Field Inspection	N	Continuous		
h. Placement of grout and prestressing grout for bonded tendons is in compliance	Field Inspection	Y	Continuous		
i. Placement of AAC masonry units and construction of thin-bed mortar joints	Field Inspection	N	Level 2 - Periodic, Level 3 - Continuous		
4. Observe preparation of grout specimens, mortar specimens, and/or prisms	Field Inspection	Y	Level 2 - Periodic, Level 3 - Continuous		
1705.6 Soils	I		T		1
Verify materials below shallow foundations are adequate to achieve the design bearing capacity.	Field inspection	Y	Periodic		
2. Verify excavations are extended to proper depth and have reached proper material.	Field inspection	Y	Periodic		
3. Perform classification and testing of compacted fill materials.	Field inspection	Y	Periodic		
Verify use of proper materials, densities, and lift thicknesses during placement and compaction of controlled fill	Field inspection	Y	Continuous		
Prior to placement of controlled fill, inspect subgrade and verify that site has been prepared properly	Field inspection	Y	Periodic		
1705.12.1 Structural Steel Special Inspections for Se			In accordance		
1. Seismic force-resisting systems in SDC B, C, D, E, or F.	Shop (3) and field inspection	Y	In accordance with AISC 341		
2. Structural steel elements in SDC B, C, D, E, or F other than those in Item 1. including struts, collectors, chords and foundation elements.	Shop (3) and field inspection	Y	In accordance with AISC 341		
1705.16 Exterior Insulation and Finish Systems (EIF Inspection of water-resistive barrier over sheathing substrate	S) Field inspection	Υ	Periodic		
1705.17 Fire-Resistant Penetrations and Joints			D 40T14 = 2 (=)		
Inspect penetration firestop systems Inspect fire-resistant joint systems	Field inspection Field inspection	Y	Per ASTM E2174		

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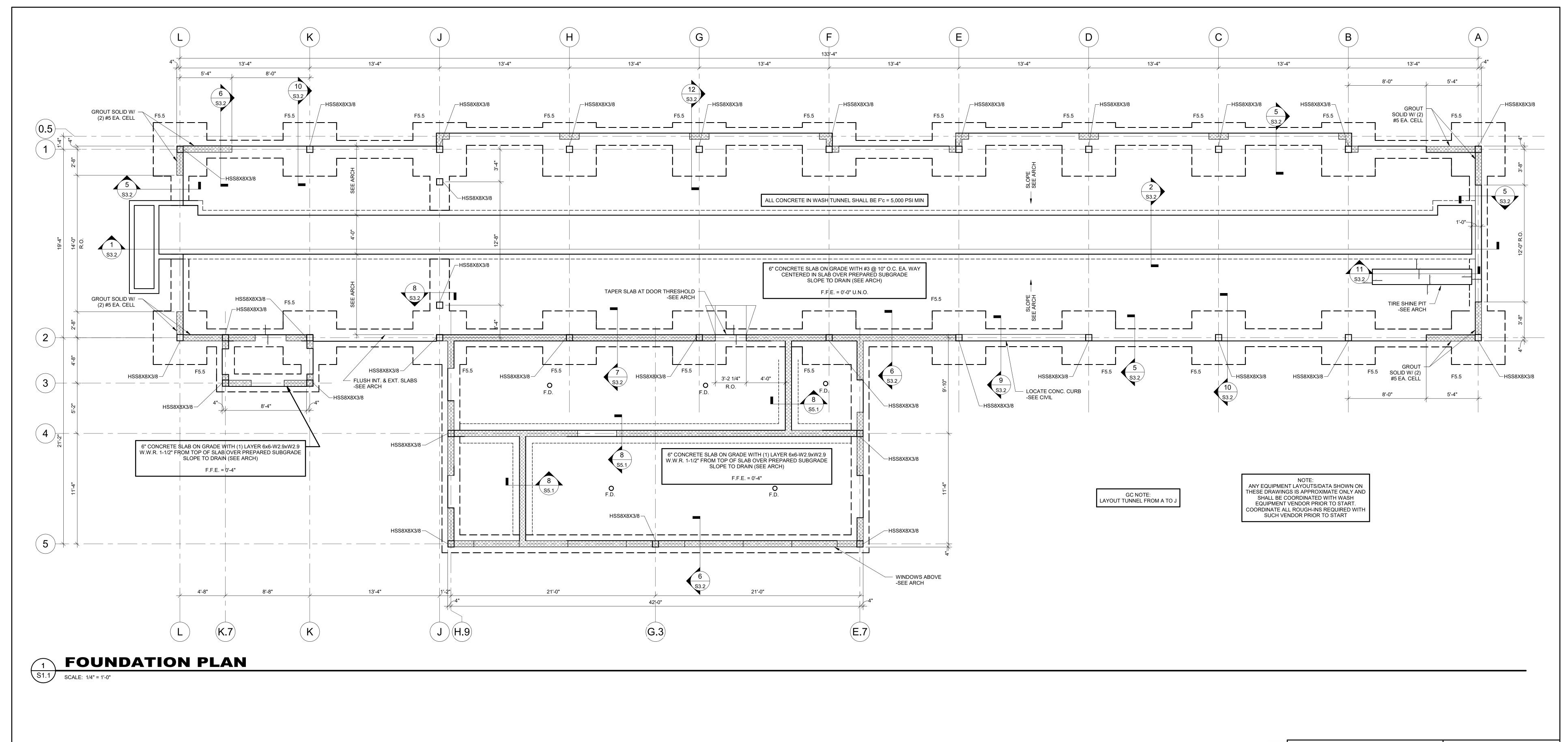


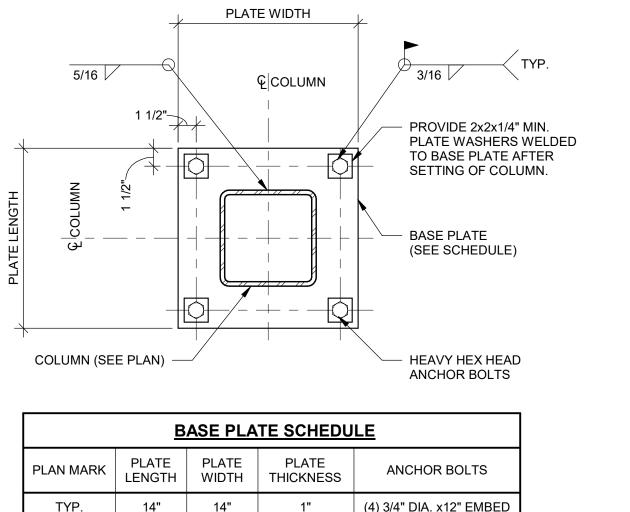
STRUCTURAL
SPECIAL
INSPECTIONS

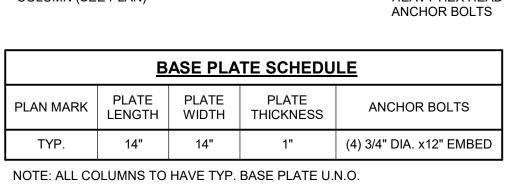
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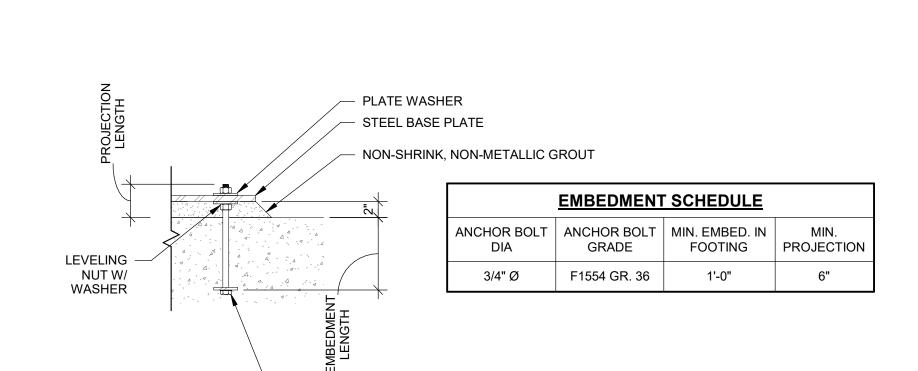
S0.2











 MARK
 LENGTH
 WIDTH
 THICKNESS

 F5.5
 5' - 6"
 5' - 6"
 1' - 4"

FOOTING SCHEDULE

(7) #5 E.W.



HEAVY HEX HEAD

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.
- 3. BOTTOM OF ALL FOOTINGS SHALL BEAR A MINIMUM OF -1'-6" BELOW FINISHED FLOOR FOR FROST PROTECTION.
- 4. REFER TO ARCH'L AND CIVIL DRAWINGS FOR LOCATION OF MOISTURE BARRIER, CURBS, EXTERIOR SLABS, DRAINAGE, RAMPS, STEPS, WALKS, ETC. 5. BUILDING SLAB IS NOT DESIGNED TO SUPPORT CRANE LOADS, CONCRETE MIXING
- TRUCKS, OR OTHER SPECIFIC CONSTRUCTION LOADINGS.
 6. FOOTINGS SHALL BE CENTERED ON THE CENTERLINE OF THE WALL AND/OR COLUMNS, U.N.O.
- 7. COORDINATE LOCATION OF LOWERED FOOTINGS WITH PLUMBING AND CAR WASH EQUIPMENT DRAWINGS. 8. REFER TO ARCHITECTURAL PLANS FOR DIMENSIONS NOT SHOWN. COORDINATE
- SLAB ELEVATIONS AND SLOPES WITH ARCHITECTURAL PLANS. 9. REFER TO ARCHITECTURAL, MEP, AND CAR WASH EQUIPMENT DRAWINGS FOR SIZE AND LOCATION OF SLAB AND FOUNDATION PENETRATIONS. 10. THICKEN SLAB TO MAINTAIN THE SLAB THICKNESS AROUND FLOOR BOXES AND
- 11. BROOM FINISH ALL SLABS NOT TO RECEIVE A FINISH. SEE ARCH. FOR SLAB
- 12. UNDERLAY SLABS WITH A MIN. 6" FREE DRAINING BASE COURSE. 13. 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:

- 1. 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. 2. THE CONCRETE MIX FOR THE TUNNEL SLAB SHALL LIMIT CEMENTITIOUS
- MATERIALS PER ACI 318 TABLE 4.4.2. 3. SEE CONCRETE GENERAL NOTES FOR ADDITIONAL REQUIREMENTS.

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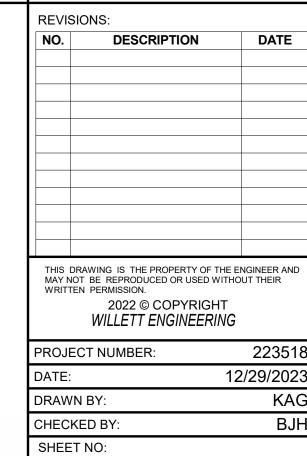
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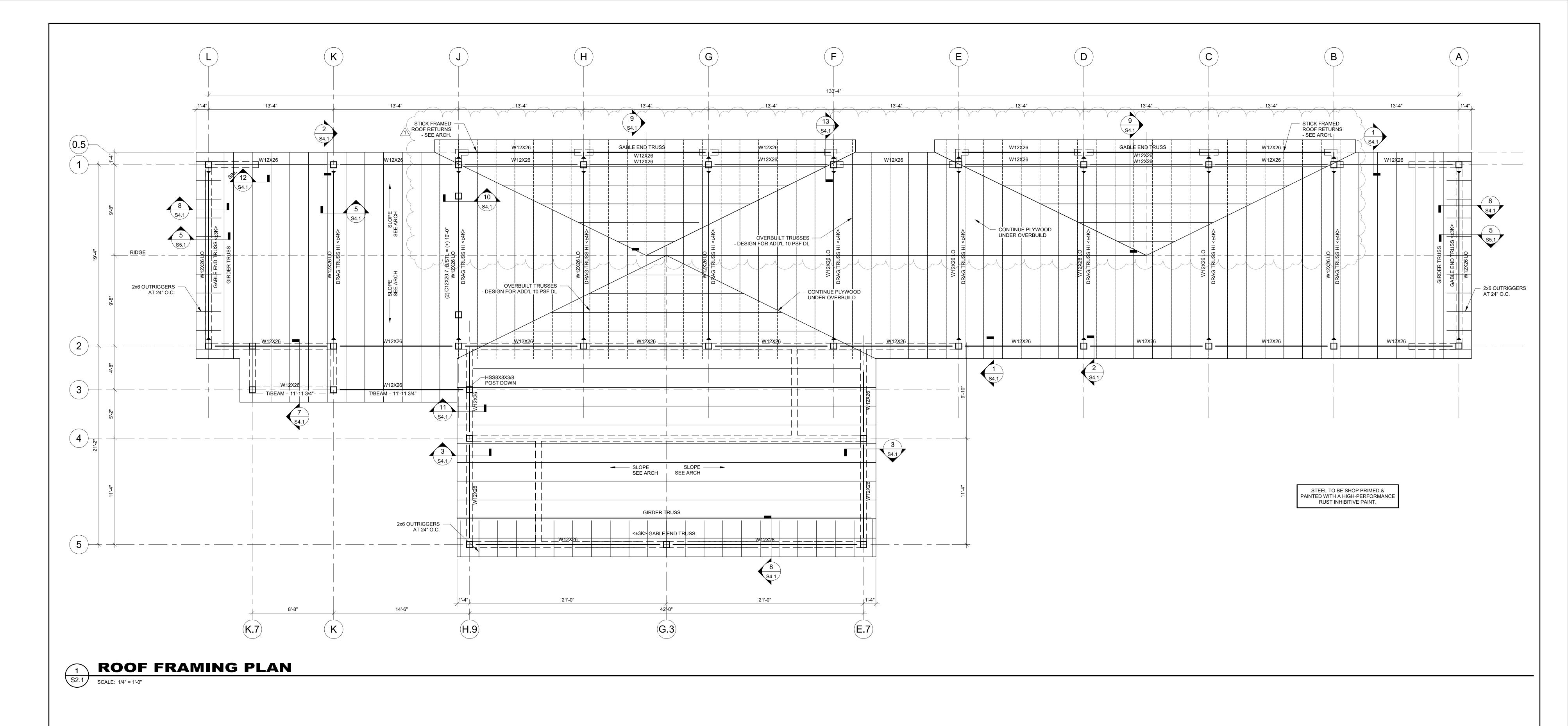
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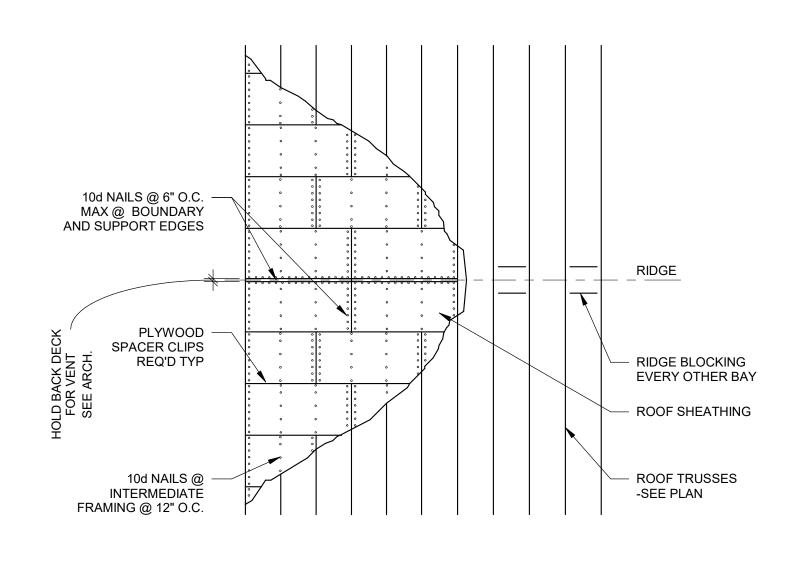
DRAWING TITLE: FOUNDATION PLAN

NEW TIDAL WAVE AUTO SPA

> US 401 ROLESVILLE, NC







ROOF DIAPHRAGM NAILING

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										

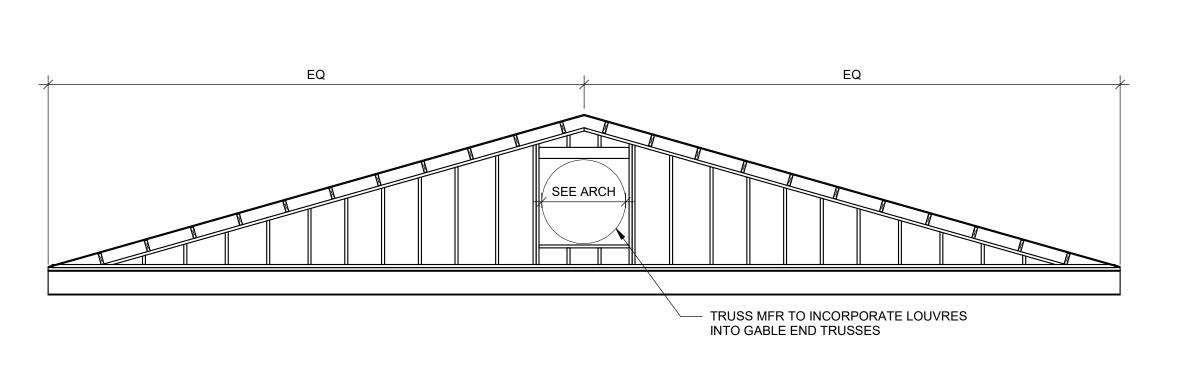
 NON-CONCURRENT WITH ROOF LIVE LOAD.
 TRUSS MANUFACTURER SHALL DESIGN FOR ADDITIONAL LOADS WHERE PARAMETERS FOR UNINHABITABLE ATTICS WITH STORAGE CRITERIA ARE MET PER ASCE 7.

ROOF FRAMING PLAN NOTES 1. INDICATES SPAN OF 5/8" PLYWOOD ROOF DECK UNDER 26 GAUGE METAL PANELS. SEE NOTES & DETAILS FOR NAILING. 2. TRUSS MANUFACTURER SHALL DESIGN AND PROVIDE ALL BRACING AND UPLIFT BRIDGING. 3. B/TRUSS = 14'-0" U.N.O. T/BEAM = 13'-9" U.N.O. 4. 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. 5. THE TRUSS MANUFACTURER SHALL DESIGN ALL JOISTS FOR A MAXIMUM DEFLECTION DUE TO TRANSIENT LOAD OF L/360. 6. 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

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REVISIONS:

NEW TIDAL WAVE AUTO SPA

US 401 ROLESVILLE, NC NO. DESCRIPTION

1 REVISION 1

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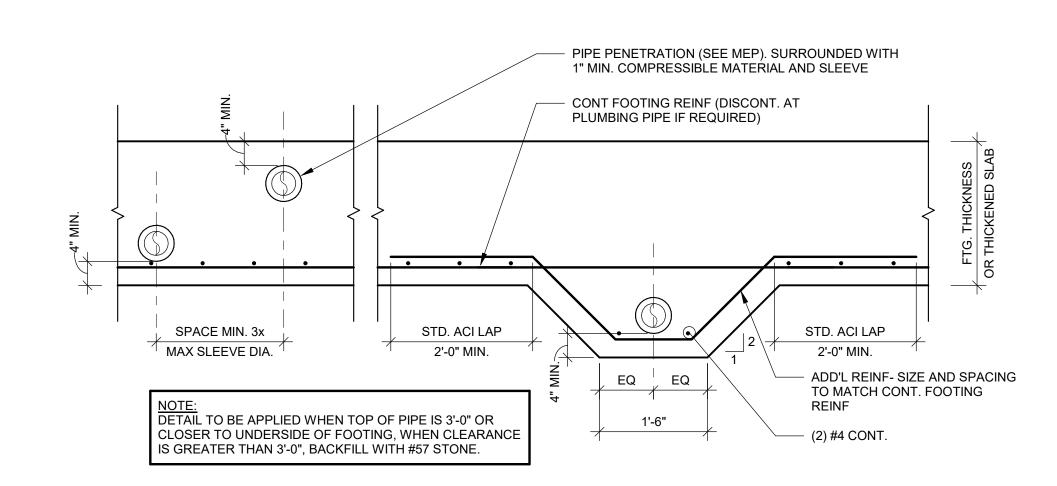


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TYP. REINF. ARRANGMENTS AT

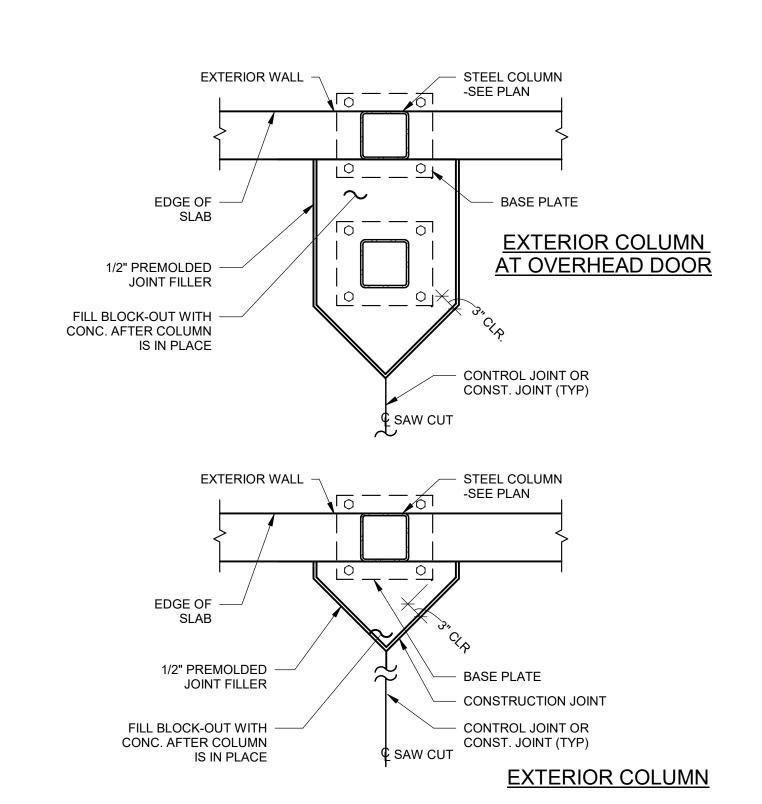
CORNERS



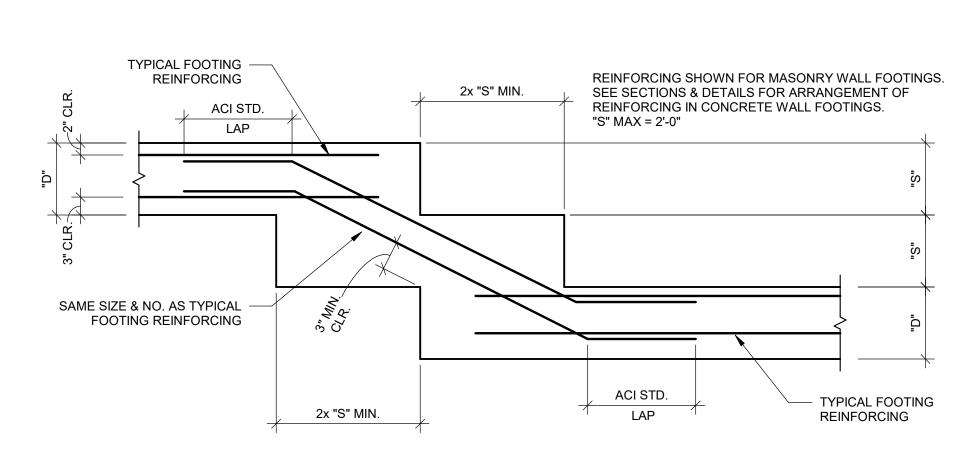
TYP. UTILITIES UNDER SLAB OR

WALL FOOTING

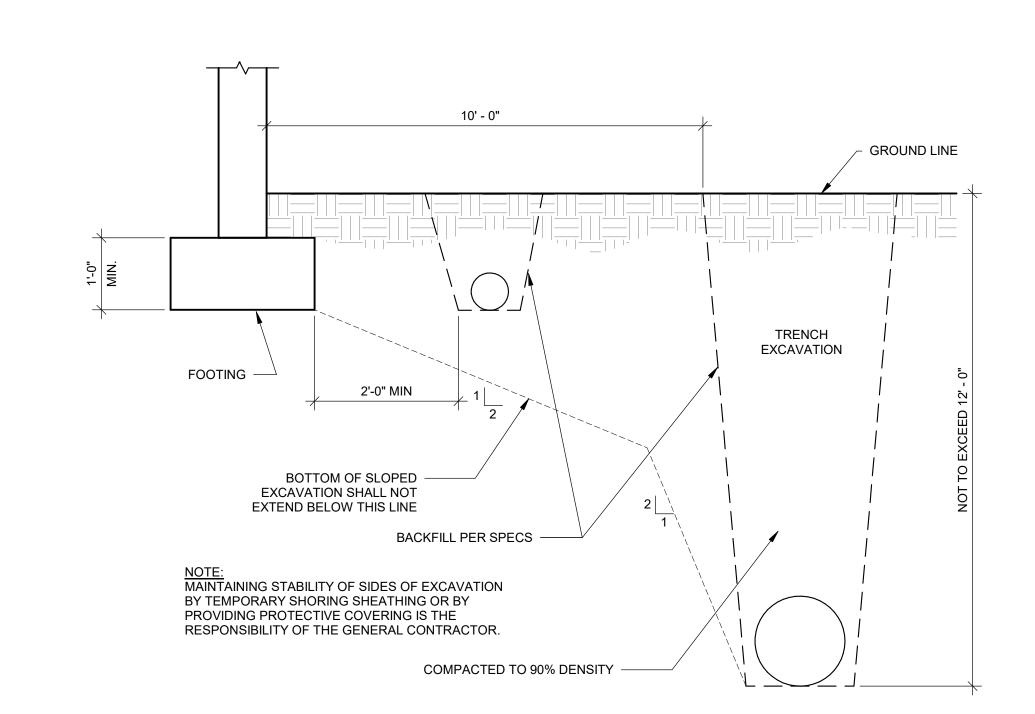
S3.1 SCALE: 3/4" = 1'-0"







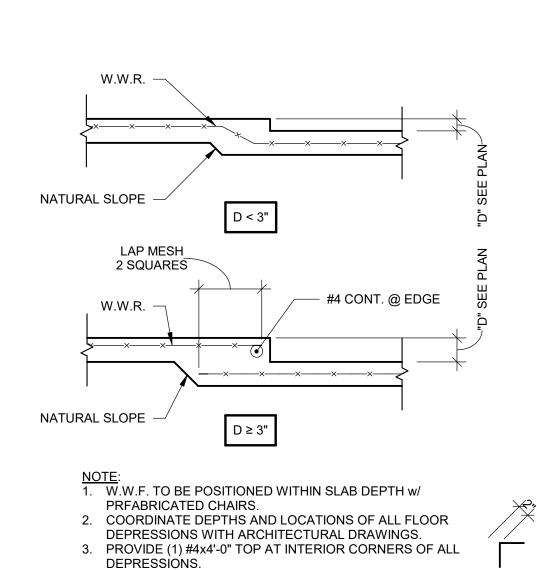
TYP. STEPPED FOOTING



TYP. EXCAVATIONS PARALLEL TO

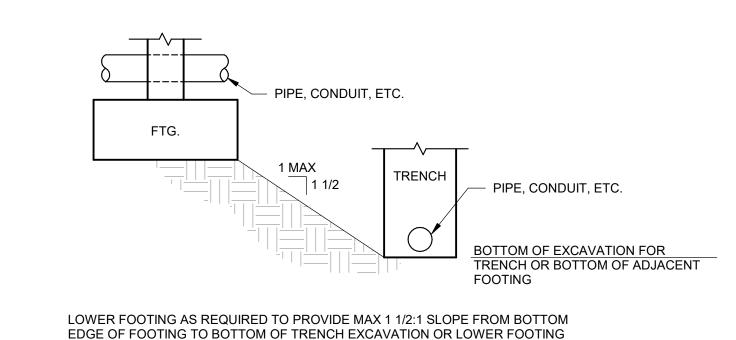
WALL FOOTING

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





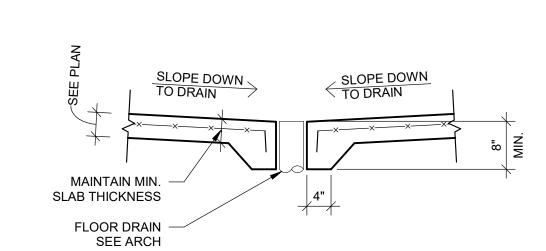
4. SLAB DEPRESSIONS ARE TYPICALLY SHOWN ON PLAN



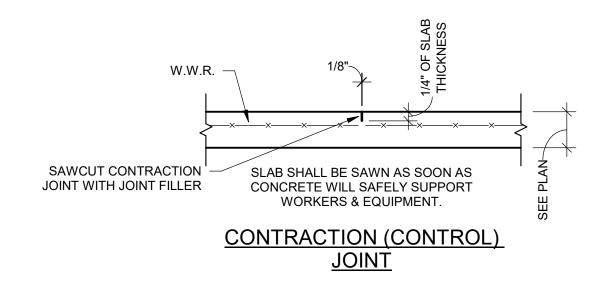
TYP. FOUNDATION INFLUENCE

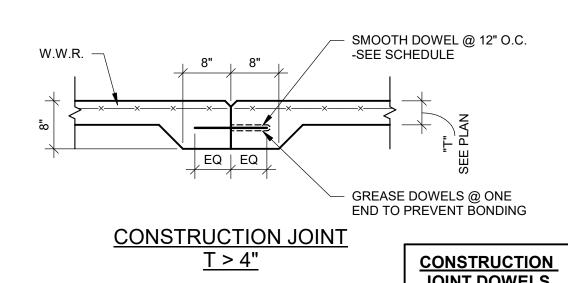
SO THAT TOP OF FOOTING IS BELOW PIPE, CONDUIT, ETC.

DETAIL



TYP. SLAB AT FLOOR DRAIN





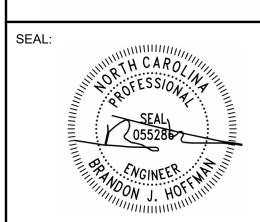
CO	NSTRUCTION JOINT NOTES:
1.	SEE PLAN FOR SLAB THICKNESS (T) AND REINFORCEMENT.
2.	SLAB REINFORCEMENT SHALL BE CHAIRED BY SOIL
	SUPPORTED SLAB BOLSTERS.
3.	BREAK BOND BETWEEN NEW AND PREVIOUSLY PLACED
	SLAB BY SPRAYING OR PAINTING EXPOSED SIDE OF KEY
	AND DOWEL WITH A CURING COMPOUND, ASPHALTIC
	EMULSION, 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

	JOIN ⁻	<u>r dowels</u>
) AND REINFORCEMENT. CHAIRED BY SOIL	"T"	DOWEL SIZE
PREVIOUSLY PLACED	5"	5/8" DIA. x1'-0"
EXPOSED SIDE OF KEY POUND, ASPHALTIC	6"	3/4" DIA. x1'-2"
RAWINGS FOR SUB		7/8" DIA. x1'-2"
RADE PREPARATION RIER REQUIREMENTS.		1" DIA. x1'-2"
ANDING WATER AT THE	9"	1 1/8" DIA. x1'-4"
	10"	1 1/4" DIA. x1'-4"

TYP. JOINTS IN SLAB ON GRADE S3.1 SCALE: 3/4" = 1'-0"

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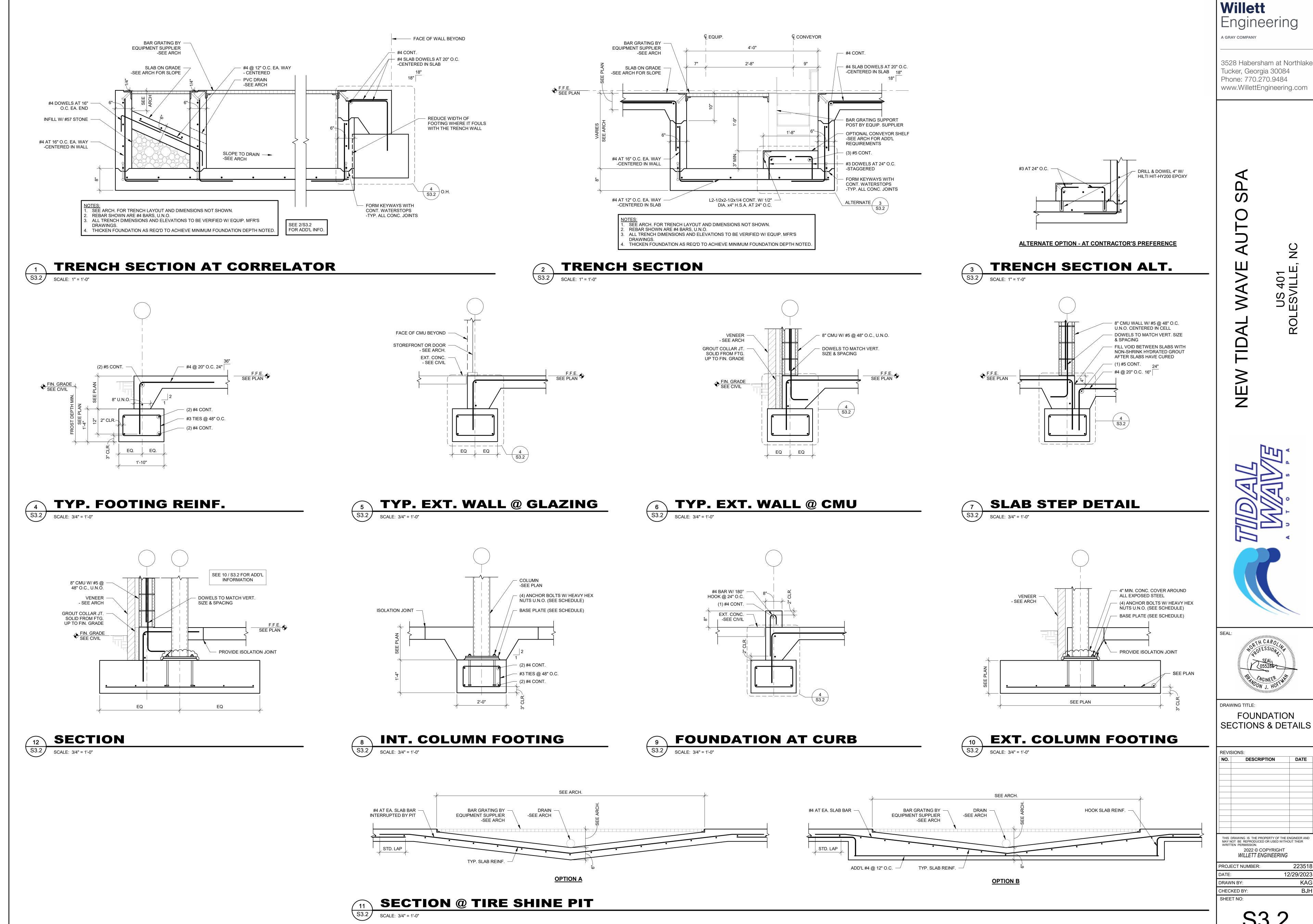


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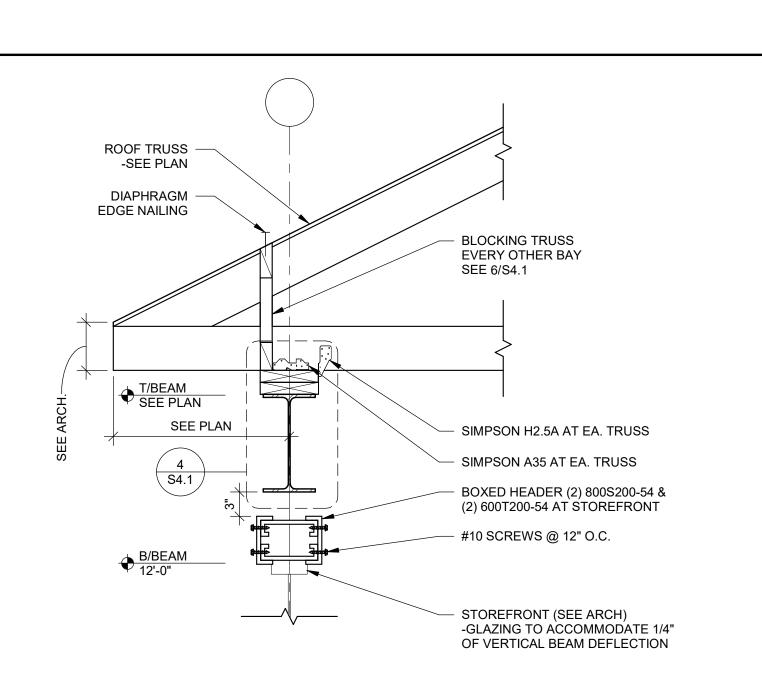
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S3.1

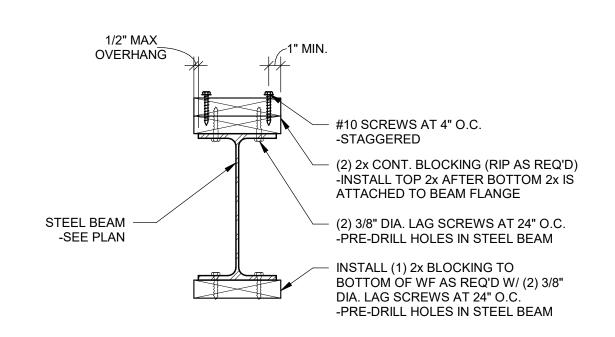


S3.2

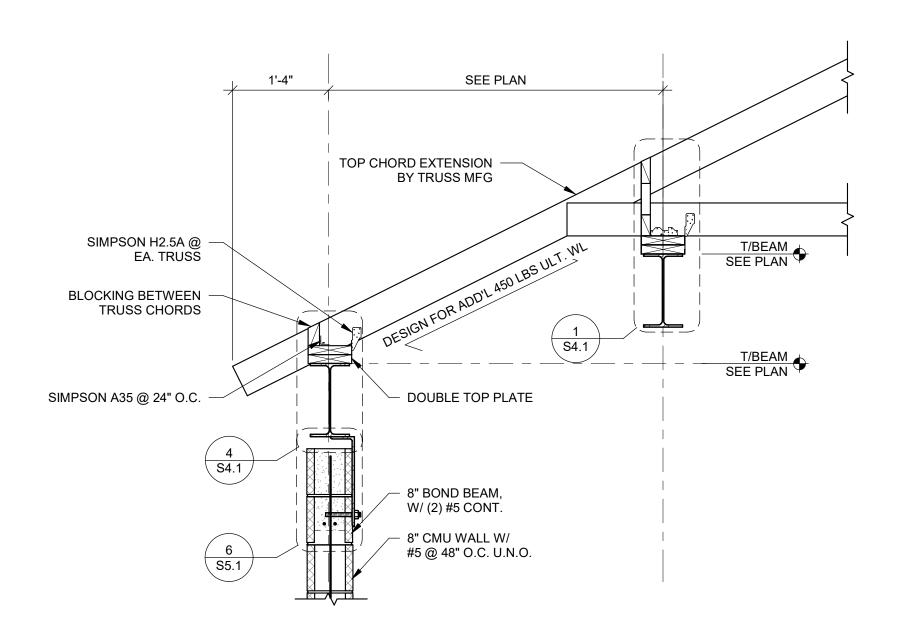


EAVE DETAIL AT STEEL BEAM

SCALE: 1" = 1'-0"



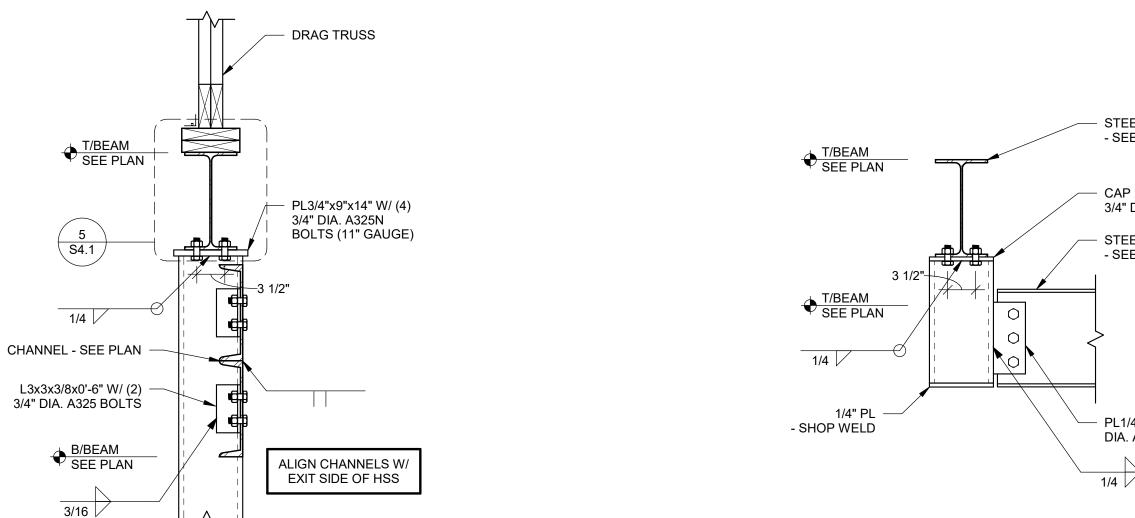
TYP. BLOCKING TO STEEL BEAM

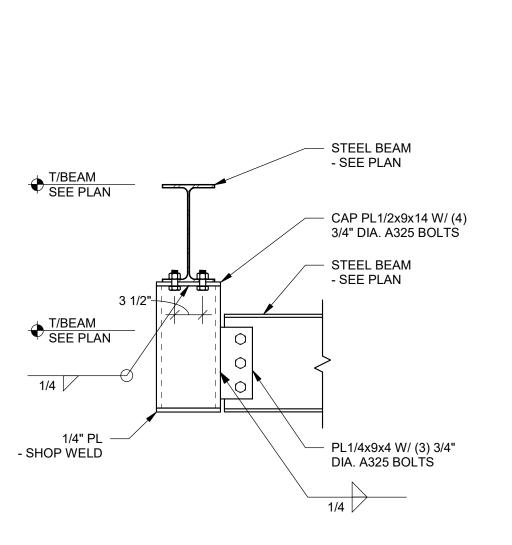


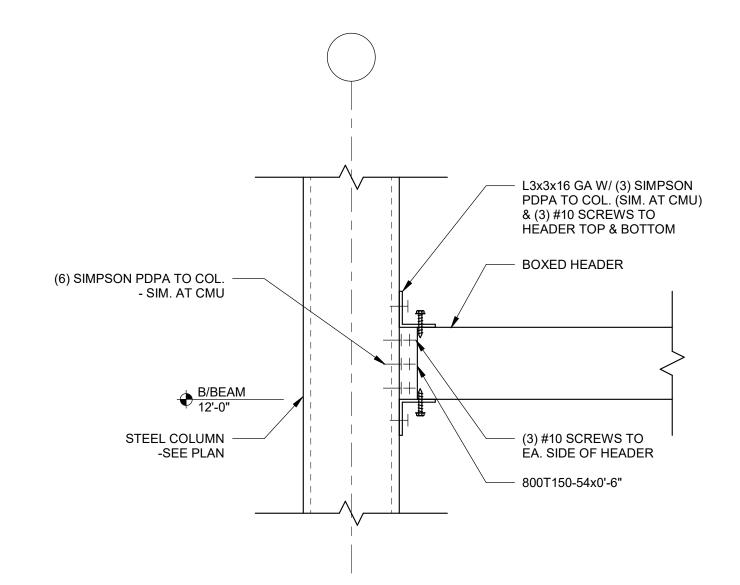
EAVE DETAIL AT OPERATOR

INTERIOR COL AT BEAM



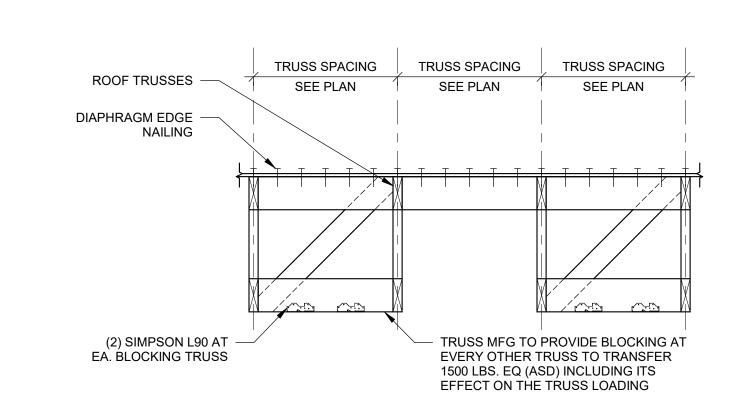






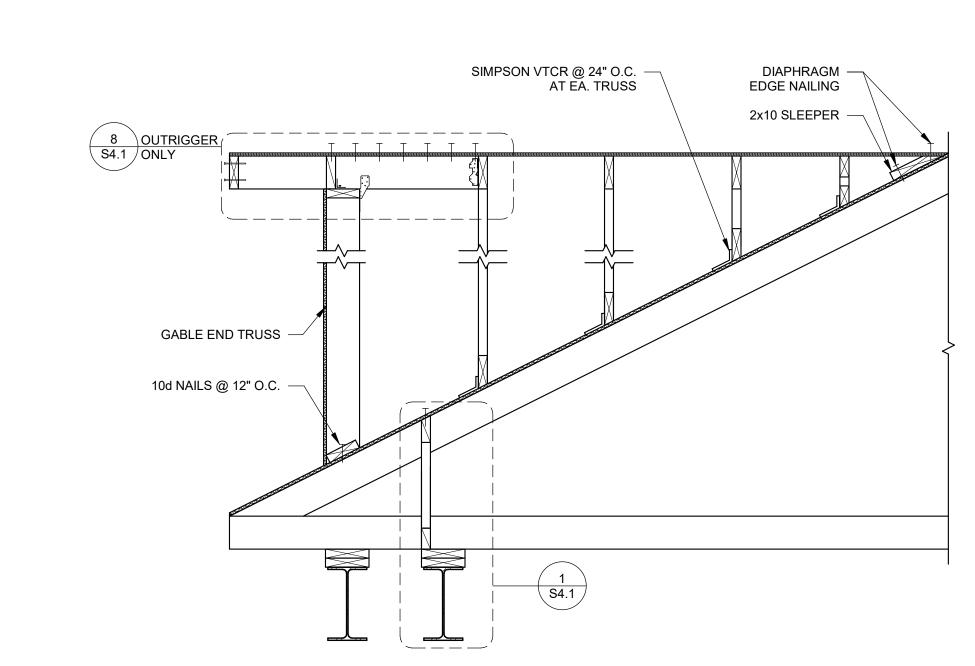
ROOF TRUSS --SEE PLAN DIAPHRAGM -**EDGE NAILING** BLOCKING TRUSS -SEE 1 / S4.1 FOR ADD'L INFORMATION 8" BOND BEAM, W/ (2) #5 CONT. - 8" CMU WALL W/ #5 @ 48" O.C. U.N.O.

EAVE DETAIL AT MASONRY

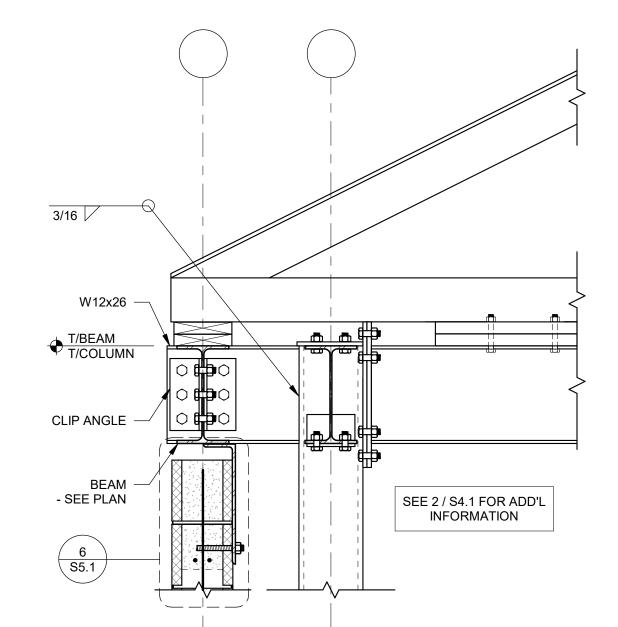


BLOCKING TRUSS DETAIL





OVERBUILT GABLE END



SECTION

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BOXED HEADER AT COLUMN

BLOCKING TRUSS

SEE 6/S4.1

-SEE PLAN

PL5/8x14x18 W/ (4)

TOP AND BOTT.

(2) 2x CONT. NAILED TOGETHER W/ 10d NAILS @ 6"

O.C. STAGGERED & 5/8" DIA. A325 THRU BOLT @ 3'-0" O.C.

INSTALL (1) 2x BLOCKING TO

DIA. LAG SCREWS AT 24" O.C.

BOTTOM OF WF AS REQ'D W/ (2) 3/8"

-PRE-DRILL HOLES IN STEEL BEAM

DIAPHRAGM EDGE NAILING

OUTRIGGER - SEE PLAN

DIAPHRAGM EDGE NAILING

SIMPSON A35

-TYP. EA. END

GIRDER TRUSS

(2) 2x4 KICKER @ 4'-0" O.C.W/ (3) #10 SCREWS EA. END

BLOCKING BETWEEN OUTRIGGERS

- STAGGERED

3/4" DIA. A325 BÒĹTS

DRAG TRUSS

PL1/4"x14"x18"

1/4

L4x4x3/8x0'-6" W/ (2) -

BOXED HEADER

STEEL COLUMN

EAVE DETAIL AT COLUMN

AT STOREFRONT

3/4" DIA. A325 BOLTS

DRAG TRUSS -

STEEL BEAM -

-SEE PLAN

BEAM AT DRAG TRUSS

SIMPSON A35 @ 24" O.C.

SIMPSON H2.5A

GABLE END TRUSS

(2) 3/8" DIA. LAG -SCREWS @ 12" O.C.

OUTRIGGER DETAIL

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

DESIGN FOR OUT OF PLANE WIND LOAD \

2x6 CONT.

SIMPSON L50 AT 12" O.C. -

-ALTERNATE SIDES

- WELD TO COLUMN

EVERY OTHER BAY

1/2" CAP PLATE SHOP WELDED TO COL.

T/BEAM T/COLUMN

- (2) 3/4" DIA. A325 BOLTS TO BEAM

PREFAB LADDER TYPE

O.C. VERTICAL

TEE HORIZ. REINF. @ 16"

- JOINT SEALER COMPOUND. SEE ARCH. GROUT CELL EA. SIDE OF CONTROL JOINT AND PLACE (3) #5 U.N.O.

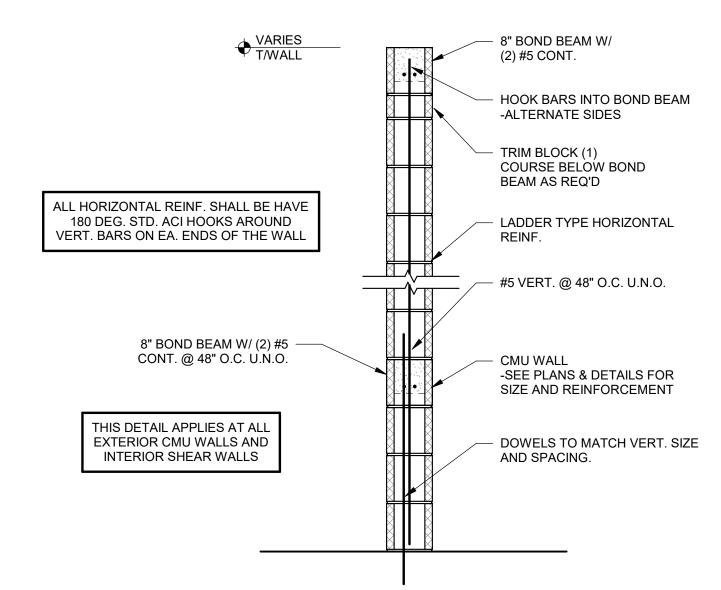
Q CONTROL JT

1. SPACING OF CONTROL JOINTS IN INTERIOR/EXTERIOR CMU WALL SHALL NOT EXCEED 18'-0". . SEE ARCH FOR EXACT LOCATIONS OF CONTROL JOINTS. B. CONTINUE HORZ. JOINT REINF. THRU CONTROL JOINTS. 4. WHERE CMU WALLS INTERSECT CONTROL JOINTS IN THE SLAB ON GRADE, ALIGN CMU CONTROL

JOINTS WITH THOSE IN THE SLAB ON GRADE.

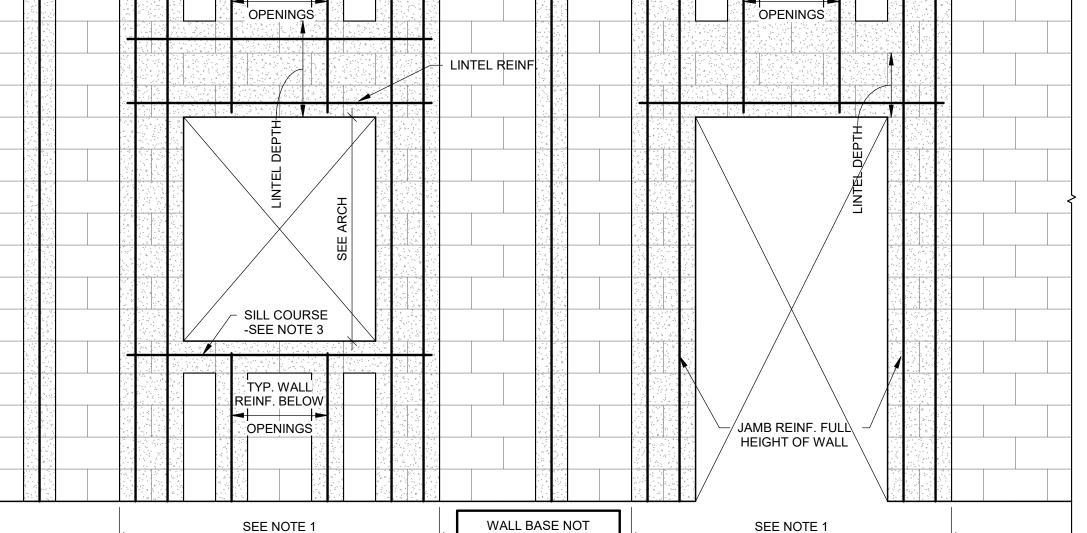
TYPICAL CMU CONTROL JOINTS

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



TYP. CMU STRUCTURAL WALLS

SCALE: 3/4" = 1'-0" TYP. WALL REINF. JAMB WIDTH OPENING WIDTH JAMB WIDTH TYP. WALL REINF. JAMB WIDTH OPENING WIDTH JAMB WIDTHTYP. WALL REINF. TYP. WALL REINF. ABOVE REINF. ABOVE **OPENINGS** LINTEL REINF



NOTES: 1. DO NOT PLACE CONTROL JOINTS WITHIN OPENING OR JAMB REGIONS. 2. GROUT SOLID ALL CELLS CONTAINING REINFORCEMENT. 3. SILL COURSE AS REQ'D: A. 8" CMU = (2) #5 CONT. (8'-0" MAX)

SHOWN FOR CLARITY

B. 6" CMU = (1) #5 CONT. (6'-0" MAX) 4. NOTIFY STRUCTURAL ENGINEER OF RECORD IF OPENING WIDTHS EXCEED THOSE SCHEDULED.

SCHEDULE F	OR CMU LIN	TELS IN 8" NON-LOAI	D BEARING MAS	ONRY WALLS
OPENING WIDTH	LINTEL DEPTH	REINFORCING	END BEARING REQ'D	JAMB REINF. REQ'D
UP TO 4'-0"	8"	(2) #5 CONT. BOTT.	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
NOT ADE	QUATE JAMB	Q'D ALSO IS MINIMUN WIDTH, USE STEEL I E STRUCTURAL ENGI	LINTEL FOR APP	

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 LINTEL WITH (2) BARS **LINTEL WITH** (4) BARS

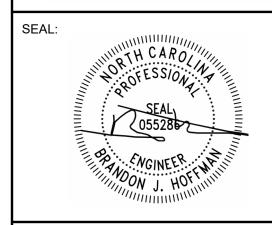
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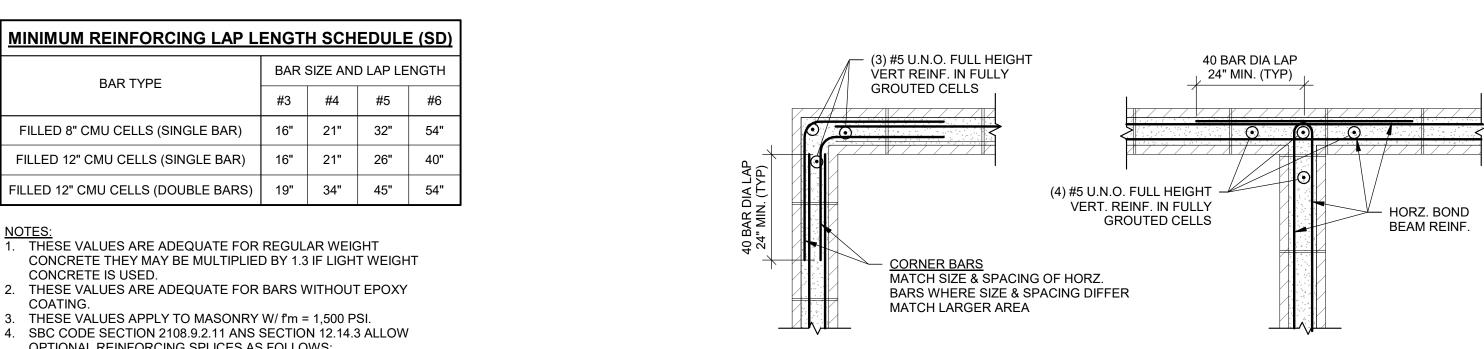
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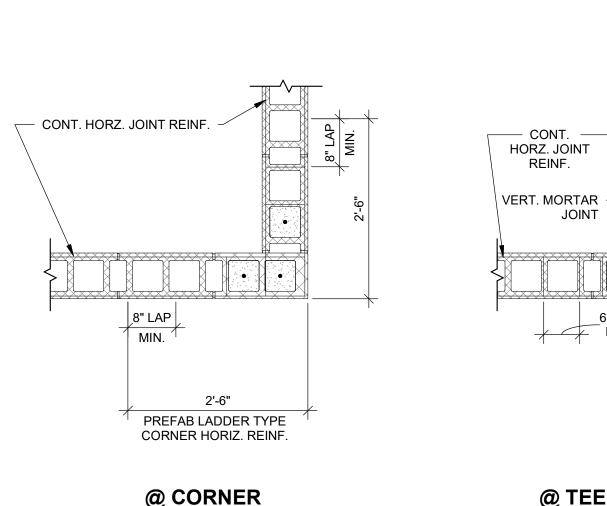


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INTERSECTIONS

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

@ TEE INTERSECTION @ CORNER 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

3/16 8"

INFILL COURSE -

- GROUT SOLID

CMU WALL BRACING TO WF BEAM

BENT PLATE 15x4x1/2x1'-0" -

ONE SIDE ONLY, FLUSH W/ CMU W/ (2) 5/8"Ø HILTI

HY-270 + THRÉADED ROD

(EMBED. 4 1/2") @ 48" O.C. SLOT 2" VERT.

12'-0" MAX T/WALL (SEE ARCH)

- WF BEAM

8" BOND BEAM

W/ (2) #5 CONT.

W/ (2) #5 CONT.

#5 AT 40" O.C.

-CENTER IN CELL

TYPICAL DETAIL OF LOW-LIFT REINFORCED MASONRY

HOOK BARS INTO

NOTES:

1. THESE VALUES ARE ADEQUATE FOR REGULAR WEIGHT

THESE VALUES APPLY TO MASONRY W/fm = 1,500 PSI.

A WELDED SPLICE WHEREBY BARS ARE BUTTED AND WELDED TO DEVELOP IN TENSION 125 PERCENT OF THE

MECHANICAL CONNECTIONS THAT ARE CAPABLE OF

LOW LIFT GROUTING PROCEDURE:

A. CONSTRUCT WALL TO HEIGHT OF 5'-0". ALLOW MORTAR TO SET

. DELAY 3 TO 5 MINUTES PRIOR TO CONSOLIDATING TO ALLOW

COURSE BELOW THE TOP OF THE WALL AND 4'-0" O.C. (MAX.)

INSPECT UNITS FOR ALIGNMENT. CLEAN OUT CELLS TO BE FILLED.

. VERTICAL REINFORCING PRE-MANUFACTURED REBAR POSITIONER SHALL BE LOCATED AT THE TOP OF THE FIRST COURSE AT THE

DEVELOPING 125 PERCENT OF THE YIELD STRENGTH OF THE

OPTIONAL REINFORCING SPLICES AS FOLLOWS:

SUFFICIENTLY TO WITHSTAND GROUT PRESSURE.

YIELD STRENGTH OF THE BAR

. FILL CELLS TO 11/2" BELOW TOP COURSE.

WATER TO BE ABSORBED BY MASONRY.

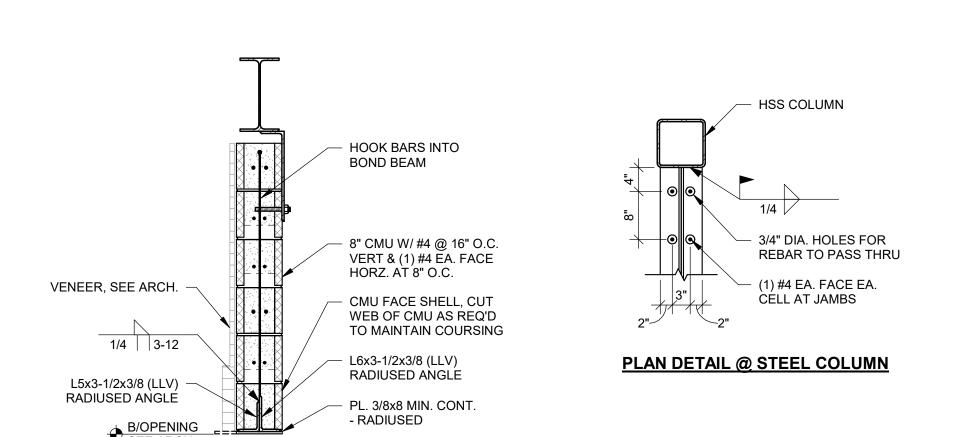
CONCRETE IS USED.

BOND BEAM

REINFORCEMENT

-SEE PLANS AND

CONSTRUCTION



HORIZONTAL JOINT

GROUTED CELLS AT

WALL FOOTING OR STEM WALL

REINFORCEMENT

REINF. @ 16" O.C.

NOTES:

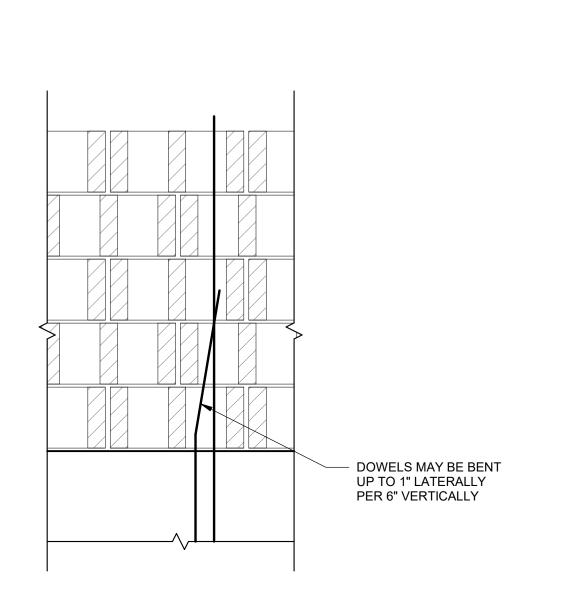
1. SEE ARCHITECTURAL FOR FLASHING.

LINTEL FOR ARCHED OPENING

EXTEND OUT TO SUPPORT BRICK (IF PRESENT) SEE ARCH FOR EXTERIOR FINISHES

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

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



PERMISSIBLE BENDING OF

FOUNDATION DOWELS

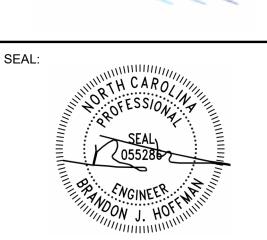


- STANDARD LADDER TYPE HORIZONTAL REINF. (9 GA MIN) @ 16" O.C. DETAIL APPLIES AT INTERIOR, DRILL & EPOXY REINF. 8" INTO SLAB W/ NON-LOAD BEARING PARTITION HILTI-HY 200 V3 EPOXY WALLS ONLY. (MATCH WALL REBAR SIZE & SPACING) - DOWELS TO MATCH VERT. SIZE AND SPACING - 8" BOND BEAM W/ (2) #5 CONT.

— (3) #5 CONT.

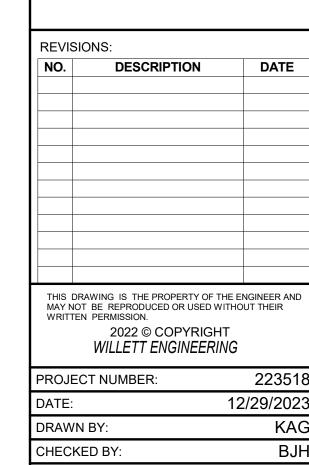
TYP. CMU PARTITION WALLS

CMU OPENING SCHEDULE



DRAWING TITLE:

AUXILIARY
BUILDINGS



SHEET NO: **S6.1**

hone: 770.270.9484 www.WillettEngineering.com

PRE-MANUFACTURED WOOD TRUSSES
RIDGE

5" THICK CONCRETE SLAB ON PREPARED SUB-GRADE W/#3 @ 18" O.C. EA. WAY, CENTERED IN THE SLAB F.F.E. = +0'-0" U.N.O.

31'-4"

r-----

VENDING/VACUUM FOUNDATION

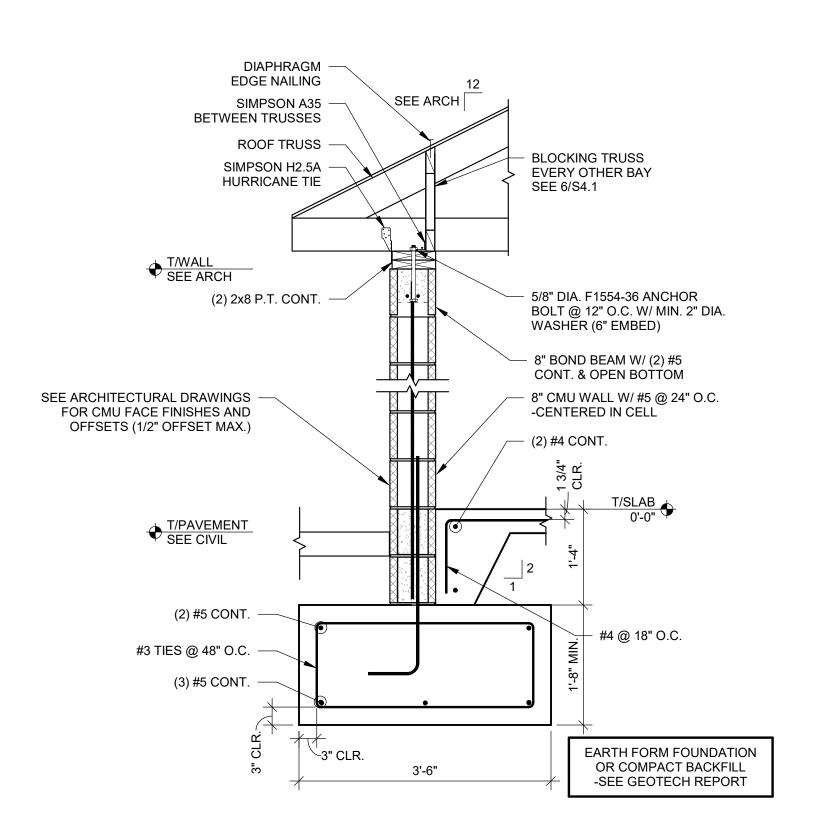
PLAN

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

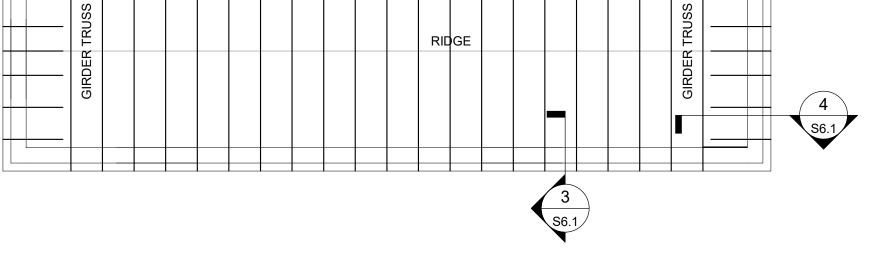
AUX BUILDINGS FOUNDATION PLAN NOTES:

1. SEE ARCH. DRAWINGS FOR DIMENSIONS NOT SHOWN.

2. CAST BOLLARDS AND GATE POSTS WITH CONCRETE FOUNDATION WALLS. SEE ARCHITECTURAL DRAWINGS FOR BOLLARD AND GATE POSTS FOUNDATIONS.







VENDING/VACUUM ROOF FRAMING

PLAN

1) SCALE: 4/4" - 410"

AUX BUILDINGS ROOF FRAMING PLAN NOTES:

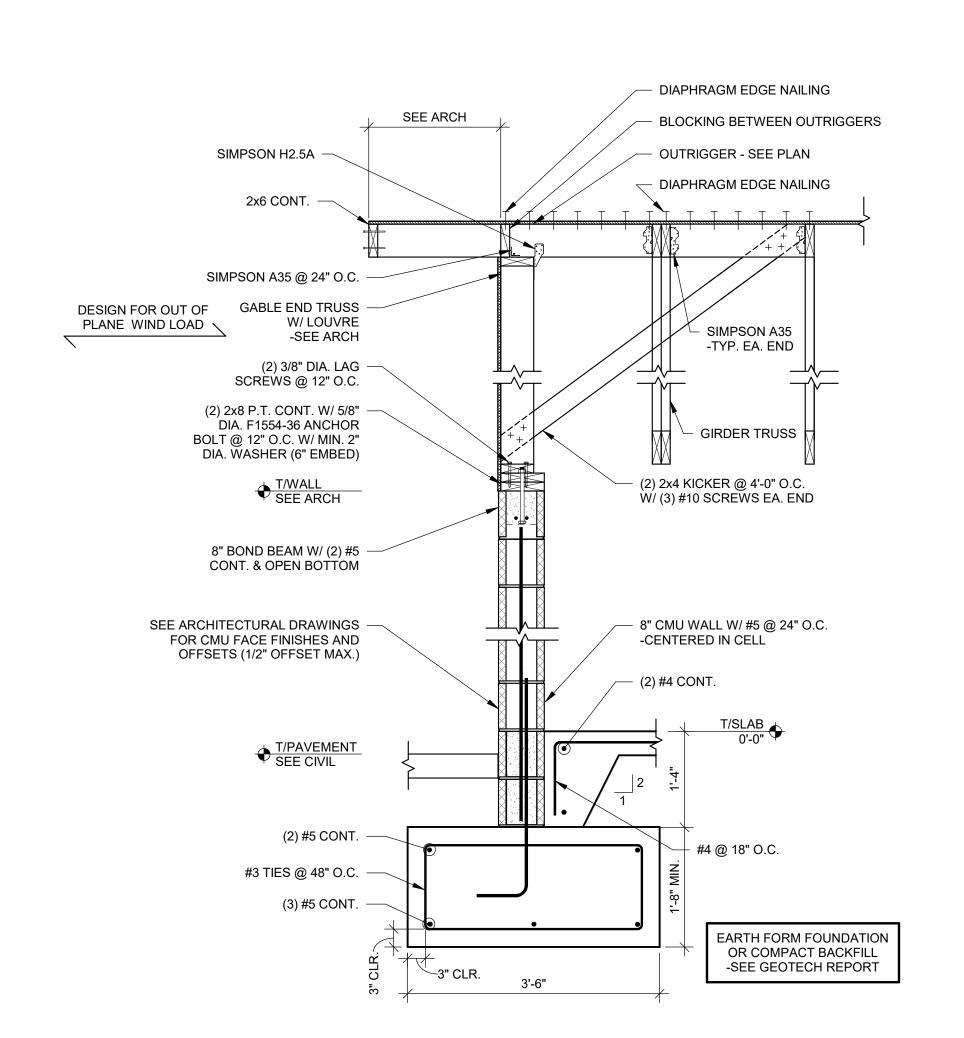
1. INDICATES SPAN OF 5/8" PLYWOOD ROOF DECK UNDER 26 GAUGE METAL PANELS. SEE NOTES & DETAILS FOR NAILING.

2. VERIFY ALL DIMENSIONS, ROOF SLOPES, AND OVERHANGS W/ ARCH. DRAWINGS.

3. TRUSS MANUFACTURER SHALL DESIGN AND PROVIDE ALL BRACING AND UPLIFT BRIDGING.

4. TRUSS MANUFACTURER SHALL DESIGN ALL TRUSSES FOR A MAXIMUM DEFLECTION DUE TO TRANSIENT LOAD OF L/360.

5. ROOF IS NOT DESIGNED TO SUPPORT ANY FUTURE ROOF TOP EQUIPMENT.





	<u>LIGHTING FIXTURE SCHEDULE</u>								
LABEL	DESCRIPTION	NO.	LAI TYPE	MPS WATT	LUMENS	VOLTAGE	MOUNTING	NOTES	
LD1	15"x48" LED ENCLOSED AND GASKETED FIXTURE WITH CLEAR, IMPACT—RESISTANT ACRYLIC LENS. WILLIAMS EGL2 SERIES	-	LED 4000K	135	19,700	UNV	CEILING SURFACE	1	
LF1	4' LED STRIP FIXTURE WITH FROSTED ACRYLIC SHIELDING. WILLIAMS 75L SERIES	-	LED 3500K	31	3,800	UNV	CEILING SURFACE	1)	
LF2	8' LED STRIP FIXTURE WITH FROSTED ACRYLIC SHIELDING. WILLIAMS 75L SERIES	-	LED 3500K	103	13,000	UNV	CEILING SURFACE	1)	
WM1	LED WALL PACK. REFER TO SHEET E1.2 FOR REQUIREMENTS	-	LED 5000K	_	-	UNV	WALL SURFACE		
WS1	25" LED VANITY FIXTURE. COORDINATE FIXTURE FINISH WITH ARCHITECT PRIOR TO ORDERING. COOPER LIGHTING SHAPER 605 SERIES	1	LED 3500K	20	2,000	UNV	WALL SURFACE	2	

GENERAL NOTES:

EMERGENCY FIXTURES INDICATED IN THIS SCHEDULE SHALL BE CAPABLE OF 90 MINUTE BATTERY BACK-UP OPERATION.

CONTRACTOR IS RESPONSIBLE FOR SECURING ANY SUSPENDED LIGHT FIXTURE(S) WHICH SWAY OR MOVE DUE TO AIR PRODUCING MECHANICAL EQUIPMENT OR EXTERIOR WIND WITH RIGID SUPPORT(S). • FINISHES OF ALL FIXTURES INDICATED IN THIS SCHEDULE SHALL MATCH THE FINISH ADJACENT TO THE CEILING/WALL THE FIXTURE IS MOUNTED IN/ON UNLESS NOTED OTHERWISE. PROVIDE CUSTOM COLOR FINISH IF FINISH REQUIRED IS NOT A STANDARD FIXTURE OPTION.

(1) VERIFY CEILING TYPES PRIOR TO ORDERING FIXTURES.

(3) MOUNT FIXTURE AT HEIGHT AS INDICATED (BOTTOM OF FIXTURE), COORDINATE WITH EQUIPMENT PRIOR TO ROUGH IN.

(2) VERIFY EXACT MOUNTING HEIGHT WITH ARCHITECTURAL DRAWINGS.

	EMERGENCY LIGHTING FIXTURE SCHEDULE								
			LAN	/IPS					
LABEL	DESCRIPTION	NO.	TYPE	WATT	LUMENS	VOLTAGE	MOUNTING	NOTES	
EX3	LED COMBINATION EXIT / EMERGENCY FIXTURE WITH RED LETTERING, STANDARD MODEL, AND SELF-DIAGNOSTICS. DUAL LITE LT SERIES	2	LED	3	-	UNV	CEILING / WALL SURFACE		
EM4	11"Wx3"Dx7"H LED EMERGENCY FIXTURE WITH BATTERY HEATER AND WET LOCATION RATING. DUAL LITE PG SERIES	ı	LED	16	405	UNV	WALL SURFACE	1	
EM6	13"Wx5"Dx5"H EMERGENCY FIXTURE WITH 30 WATT CAPACITY, LEAD—CALCIUM BATTERY, STANDARD MODEL, AND SELF—DIAGNOSTICS. DUAL LITE LZ SERIES	2	LED	3	-	UNV	WALL SURFACE		
EX3W	LED COMBINATION EXIT / EMERGENCY FIXTURE WITH RED LETTERING AND WET LOCATION RATING. DUAL LITE DYNC SERIES	2	LED	3	-	UNV	CEILING / WALL SURFACE	1	

GENERAL NOTES:

• EMERGENCY FIXTURES INDICATED IN THIS SCHEDULE SHALL BE CAPABLE OF 90 MINUTE BATTERY BACK-UP OPERATION.

- PROVIDE COMPATIBLE EMERGENCY BATTERY PACK WITHOUT LAMPS (DUAL-LITE LM SERIES OR EQUAL) FOR ALL REMOTE HEAD TYPE EMERGENCY FIXTURES. INSTALL ON INTERIOR SIDE OF WALL AND LOCATE ABOVE ACCESSIBLE CEILING WHEN CEILINGS ARE PRESENT.
- SUSPENDED EXIT SIGNS SHALL BE SUPPORTED WITH PAINTED STEMS AND CONCEALED MOUNTING PLATES BY PENDANT SYSTEMS OR EQUAL. (EXCEPTIONS TO THIS REQUIREMENT INCLUDE WAREHOUSE, STORAGE AND INDUSTRIAL SPACES.)
- EXIT SIGNS LOCATED AT STOREFRONT EXITS AND ADJACENT CEILING IS GREATER THAN 12' A.F.F. SHALL BE INSTALLED CENTERED ON HORIZONTAL MULLION OF THE STOREFRONT SYSTEM ABOVE THE DOORWAY. ALL WIRING SHALL BE CONCEALED WITHIN MULLIONS AND SIGN SHALL BE INSTALLED FLUSH. NO VISIBLE BACK BOXES SHALL BE ALLOWED.
- (1) VERIFY EXACT MOUNTING HEIGHT WITH ARCHITECTURAL DRAWINGS.

ELECTRICAL NOTES

REQUIREMENTS OF REGULATORY AGENCIES AND STANDARDS ALL EQUIPMENT, MATERIAL AND INSTALLATION SHALL MEET THE REQUIREMENTS OF ONE OR MORE OF THE FOLLOWING:

a. NATIONAL ELECTRICAL CODE (NEC), NFPA-70 (2020) b. LIFE SAFETY CODE, NFPA-101 2018 EDITION WITH NORTH CAROLINA AMENDMENTS

c. INTERNATIONAL FIRE CODE. 2018 EDITION WITH NORTH CAROLINA AMENDMENTS (2018) d. INTERNATIONAL ENERGY CONSERVATION CODE (IECC), (2015), WITH NORTH CAROLINA SUPPLEMENTS AND AMENDMENTS (2020)

e. INTERNATIONAL BUILDING CODE, (2018) WITH NORTH CAROLINA AMENDMENTS (2020) f. OCCUPATIONAL SAFETY AND HEALTH ACT (OSHA)

g. NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION (NEMA) h. AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI)

i. INSTITUTE OF ELECTRICAL AND ELECTRONIC ENGINEERS (IEEE) . ILLUMINATING ENGINEERING SOCIETY (IES) k. UNDERWRITERS LABORATORIES (UL)

I. STANDARD FOR THE INSTALLATION, MAINTENANCE AND USE OF LOCAL PROTECTIVE SIGNALING SYSTEMS (NFPA-72) m. FEDERAL SPECIFICATION (FED. SPEC.)

n. INSULATED POWER CABLE ENGINEERS ASSOCIATION (IPCEA)

THE CONTRACTOR SHALL VISIT THE JOB SITE AND REVIEW CONSTRUCTION AND VENDOR DRAWINGS FOR ALL TRADES PRIOR TO BID TO BECOME FAMILIAR WITH THE PROJECT AND INTENT OF THE DRAWINGS. THE CONTRACTOR SHALL OBTAIN A PERMIT FOR WORK TO BE COMPLETED AND INCLUDE COST FOR ALL PERMIT FEES, PERMITS, INSPECTIONS

AND TESTING IN THE BID. THE CONTRACTOR SHALL PROVIDE ALL NEW MATERIAL IN ACCORDANCE WITH THESE DOCUMENTS AND APPLICABLE SPECIFICATIONS. THE CONTRACTOR SHALL REPORT ANY DISCREPANCIES BETWEEN THESE DOCUMENTS AND THOSE OF OTHER DISCIPLINES TO THE

ARCHITECT/ENGINEER FOR WRITTEN DIRECTION/INSTRUCTIONS FOR CHANGES NECESSARY IN THE WORK. THE CONTRACTOR SHALL NOT SCALE THE ELECTRICAL DRAWINGS, REFER TO THE ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS AND

THE CONTRACTOR IS EXPECTED TO PROVIDE ALL MATERIAL NECESSARY FOR A COMPLETE OPERATING SYSTEM. IT IS NOT THE INTENT OF THESE DOCUMENTS TO SHOW EVERY MINOR DETAIL OF CONSTRUCTION. THE CONTRACTOR SHALL COORDINATE THE ELECTRICAL WORK WITH OTHER TRADES AND MAKE PROPER PROVISIONS IN RELATION TO THEIR

WORK. ANY CHANGES REQUIRED DUE TO LACK OF COORDINATION, SHALL BE MADE AT THE CONTRACTORS' EXPENSE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CUTTING AND PATCHING OF THEIR WORK. THE ELECTRICAL INSTALLATION SHALL BE INSTALLED IN A NEAT AND WORKMANLIKE MANNER BY A LICENSED ELECTRICAL CONTRACTOR.

10. THE CONTRACTOR SHALL PROVIDE INSURANCE FOR PROTECTION AGAINST PUBLIC LIABILITY AND PROPERTY DAMAGE FOR DURATION OF THE 1. NO COMBUSTIBLE MATERIALS, IE: PVC CONDUIT, NON-PLENUM RATED CABLING, ETC., ARE ALLOWED ABOVE ANY CEILINGS.

"PROVIDE", AS USED IN THE DOCUMENTS AND APPLICABLE SPECIFICATIONS MEANS TO FURNISH AND INSTALL COMPLETE. "WIRING", AS USED IN THE DOCUMENTS MEANS CONDUIT AND WIRES WITHIN THE CONDUIT SYSTEM. "CONCEALED", AS USED IN THE DOCUMENTS AND APPLICABLE SPECIFICATIONS MEANS EMBEDDED IN MASONRY OR OTHER CONSTRUCTION,

BEHIND WALLS, INSIDE CABINETRY OR ABOVE SUSPENDED CEILINGS. "NEMA 1", INDICATES THE ENCLOSURE SHALL BE LISTED FOR INDOOR USE ONLY. "NEMA 3R", INDICATES THE ENCLOSURE SHALL BE LISTED FOR EXTERIOR USE.

6. "SETS", AS USED FOR SERVICES, FEEDERS AND BRANCH CIRCUITS MEANS PARALLELED AND EACH SET SHALL BE INSTALLED IN SEPARATE

. ALL MATERIAL AND WORK PERFORMED SHALL BE GUARANTEED FOR A PERIOD OF NOT LESS THAN ONE YEAR FROM DATE OF ACCEPTANCE. ANY CORRECTIONS FOR DEFECTIVE MATERIALS AND/OR INSTALLATION SHALL BE MADE AT THE CONTRACTORS EXPENSE DURING THE WARRANTY PERIOD.

A. <u>DISTRIBUTION AND BRANCH CIRCUIT PANEL BOARDS</u> 1. CURRENT CARRYING BUSES AND GROUND BARS SHALL BE ALUMINUM.

ALL CIRCUIT BREAKERS SHALL BE BOLT ON TYPE, PLUG ON TYPE CIRCUIT BREAKERS ARE NOT ACCEPTABLE ALL CIRCUIT BREAKERS USED FOR MECHANICAL EQUIPMENT SHALL BE "HACR" TYPE.

AIC RATINGS SHALL BE AS INDICATED ON THE BRANCH CIRCUIT PANEL SCHEDULES. 5. ALL PANEL BOARDS SHALL BE LABELED WITH PLASTIC LAMINATE IDENTIFICATION PLATES THAT ARE ENGRAVED WITH 1/4" LETTERING. ALL PANEL BOARDS SHALL HAVE A TYPE WRITTEN SCHEDULE OF BRANCH CIRCUIT DESCRIPTIONS. CIRCUIT BREAKERS SHALL MEET ALL PROVISIONS OF NEC 210.12. ALL CIRCUIT BREAKERS (OR OTHER LISTED MEANS) SUPPLYING 120 VOLT,

SINGLE PHASE 15 AND 20 AMP OUTLETS OR DEVICES INSTALLED IN GUEST ROOMS, GUEST SUITES, DORMITORY UNITS AND CIRCUITS SUPPLYING OUTLETS AND DEVICES OR SIMILAR ROOMS SHALL BE COMBINATION ARC FAULT CIRCUIT INTERRUPTER TYPE. ALL EXISTING PANEL BOARDS UTILIZED FOR THIS SCOPE OF WORK SHALL HAVE AN UPDATED TYPE WRITTEN SCHEDULE OF BRANCH CIRCUIT

ELECTRICAL EQUIPMENT THAT IS LIKELY TO REQUIRE EXAMINATION, MAINTENANCE ETC WHILE ENERGIZED, SHALL BE FIELD OR FACTORY MARKED TO WARN OF POTENTIAL ELECTRIC ARC FLASH HAZARDS PER NEC 110.16. DISCONNECT SWITCHES AND MOTOR STARTERS SWITCHES SHALL BE H.P. RATED, HEAVY DUTY TYPE.

QUICK-MAKE, QUICK-BREAK OPERATING MECHANISM. STARTERS SHALL BE COMBINATION TYPE, FUSIBLE WITH BIMETAL OVERLOADS IN EACH PHASE. STARTERS SHALL HAVE A "HAND-OFF-AUTO" (HOA) SWITCH UNLESS NOTED OTHERWISE.

MINIMUM SIZE SHALL BE #12 AWG, EXCEPT FOR CONTROL/LOW VOLTAGE WIRING. INSULATION TYPE SHALL BE DUAL RATED THHN/THWN.

ALL CONDUCTORS SHALL BE COPPER, UNLESS NOTED OTHERWISE. 4. ALL CONDUCTORS 100 AMPS OR LESS ARE BASED ON LISTED TERMINALS OF 75'. PROVIDE CONDUCTORS SIZED IN ACCORDANCE TO TABLE

310.15(B)(16) 60° COLUMN WHEN LISTING IS UNKNOWN. WRING DEVICES (GENERAL PURPOSE)/FACEPLATE . RECEPTACLES SHALL MEET ALL PROVISIONS OF NEC 406.12 (TAMPER-RESISTANT). PROVIDE GROUND FAULT (GFCI), ARC-FAULT, (AFCI) AND WEATHER-RESISTANT WHERE REQUIRED BY CODE.

PAINTED WALL LOCATIONS, PROVIDE WHITE DEVICE WITH SMOOTH, WHITE NYLON FACEPLATE, UNLESS DIRECTED OTHERWISE. WOOD STAINED AND TILED LOCATIONS, PROVIDE BLACK DEVICE WITH BRUSHED STAINLESS STEEL FACEPLATE, UNLESS DIRECTED OTHERWISE. 4. ACM (ALUMINUM COMPOSITE PANEL) INTERIOR LOCATIONS, PROVIDE GRAY DEVICE WITH BRUSHED STAINLESS STEEL FACEPLATE, UNLESS

FOR EXTERIOR WALL LOCATIONS, PROVIDE ARLINGTON DB SERIES OR EQUIVALENT WITH RECESS STEEL BOX AND WEATHERPROOF IN-USE, LOW PROFILE CLEAR COVER, WHITE TRIM. JUNCTION BOXES INTFRIOR LOCATIONS SHALL BE PRESSED STEEL.

EXTERIOR LOCATIONS SHALL BE HEAVY DUTY CAST ALUMINUM WITH THREADED HUBS.

EMT SHALL BE GALVANIZED STEEL. PVC SHALL BE SCHEDULE 40 WHERE NOT SUBJECT TO PHYSICAL DAMAGE. PVC SHALL BE SCHEDULE 80 WHERE EXPOSED TO PHYSICAL DAMAGE.

4. MC CABLE IS ACCEPTABLE WITH LIGHTWEIGHT ALUMINUM INTERLOCKED ARMOR AND INTERNAL REDUNDANT GROUND.

EQUIPMENT TERMINAL RATING 1. ALL EQUIPMENT SHALL BE PROVIDED WITH 60/75 RATED TERMINALS.

A. COLOR CODING FOR CONDUCTORS SHALL BE THE FOLLOWING:

1. 480/277 VOLT, THREE PHASE, FOUR WIRE SYSTEM: A PHASE-BROWN, B PHASE-PURPLE, C PHASE-YELLOW, GROUNDED (NEUTRAL)-GREY AND GROUNDING-GREEN.

208/120 VOLT, THREE PHASE, FOUR WIRE SYSTEM: A PHASE-BLACK, B PHASE-RED, C PHASE-BLUE, GROUNDED (NEUTRAL)-WHITE AND GROUNDING-GRFFN. CONDUCTORS FOR SERVICES AND BRANCH CIRCUITS #6 AND LARGER SHALL BE IDENTIFIED CONSISTENTLY BY: COLOR CODING, MARKING TAPE OR OTHER APPROVED MEANS.

<u>WIRING METHODS</u> CONDUCTORS SHALL BE INSTALLED IN ELECTRICAL METALLIC TUBING (EMT) UNLESS NOTED OTHERWISE. CONNECTORS AND FITTINGS SHALL BE

STEEL SET SCREW OR COMPRESSION TYPE. PVC, AS INDICATED IN PART 2-PRODUCTS (F) SHALL BE INSTALLED BELOW SLAB, UNDERGROUND AND EXPOSED WHERE LISTED FOR SUCH

LESS, CONCEALED IN WALLS AND ABOVE SUSPENDED CEILINGS, AND AS APPROVED BY THE AUTHORITY HAVING JURISDICTION. IT IS NOT INTENDED TO USE MC CABLE EXPOSED. 4. INSTALLATIONS WITHIN HAZARDOUS (CLASSIFIED) LOCATIONS SHALL MEET ALL REQUIREMENTS FOR THE LOCATION PER NEC 500.

3. MC CABLE, AS INDICATED IN PART 2-PRODUCTS (F) IS ACCEPTABLE FOR USE WITH GENERAL BRANCH CIRCUITS, RATED 20 AMPERES OR

PENETRATIONS INTO CLASSIFIED LOCATIONS SHALL BE PROVIDED WITH SEALS AND ALL RACEWAYS WITHIN CLASSIFIED LOCATIONS SHALL BE RIGID STEEL. ALL ELECTRICAL EQUIPMENT INSTALLED IN CLASSIFIED AREAS SHALL BE LISTED FOR USE WITHIN THE LOCATION.

FOR NEW LOCATIONS, ALL CONDUITS SHALL BE INSTALLED WITHIN WALL SYSTEM. NO EXPOSED VISIBLE CONDUITS SHALL BE ALLOWED. FOR CONCRETE MASONRY UNIT WALLS (CMU) THE CONDUIT SHALL BE INSTALLED WITHIN VERTICAL CELLS OF BLOCKS AND FOR PRE-ENGINEERED METAL BUILDING WALLS (PEMB) THE CONDUIT SHALL BE INSTALLED BEHIND WALL PANEL.

LAY-IN TYPE LIGHTING FIXTURES SHALL BE SECURED ON ALL FOUR SIDES TO SUSPENDED CEILING.

CONTRACTOR AND REQUIRE APPROVAL FROM THE ARCHITECT/ ENGINEER.

CONDUCTORS FOR BRANCH CIRCUITS SHALL BE INCREASED FROM SIZES INDICATED IN THE PANEL SCHEDULES TO PREVENT VOLTAGE DROP EXCEEDING 3% AT THE FARTHEST DEVICE. LOADS FOR DETERMINING CONDUCTOR SIZE SHALL BE BASED ON ACTUAL CONNECTED LOAD OR 80% OF CIRCUIT BREAKER SIZE, WHICH EVER IS GREATER. CONTACT ENGINEER OF RECORD FOR ALL CIRCUIT RUNS IN EXCESS OF 100 FT. FOR CALCULATION OF WIRE SIZE. FOR BID PURPOSES, INCREASE WIRE SIZE BY ONE FOR CIRCUIT RUNS BETWEEN 100 FT. AND 200 FT. AND TWO WIRE SIZES FOR CIRCUIT RUNS GREATER THAN 200 FT.

THE ELECTRICAL SYSTEM SHALL BE COMPLETE AND EFFECTIVELY GROUNDED AS REQUIRED PER THE LATEST EDITION OF THE NEC AND LOCAL CODES. ALL GROUNDING ELECTRODE CONDUCTORS SHALL BE COPPER.

THE CONTRACTOR SHALL COORDINATE WITH THE LOCAL UTILITY COMPANY PRIOR TO STARTING WORK FOR METERING REQUIREMENTS. METERING LOCATION, TRANSFORMER CONDUIT REQUIREMENTS, LUG SIZE REQUIREMENTS AND EXACT SERVICE POINT CONNECTION. SERVICE SHUT DOWN SHALL BE COORDINATED WITH THE OWNER PRIOR TO SCHEDULING WITH UTILITY COMPANY. CONTRACTOR SHALL INSTALL CONDUITS FOR UTILITY PRIMARY FEEDER PER UTILITY GUIDELINES.

THE CONTRACTOR SHALL COORDINATE WITH THE LOCAL TELEPHONE AND CABLE TV COMPANY PRIOR TO STARTING WORK FOR EXACT SERVICE POINT CONNECTION AND ANY REQUIREMENTS ANY ONE OF THE PROVIDERS MAY NEED. THE CONTRACTOR SHALL COORDINATE WITH THE MECHANICAL, PLUMBING AND VENDOR DOCUMENTS AND SUBMITTALS PRIOR TO PURCHASING

ELECTRICAL EQUIPMENT. COORDINATE ALL CONTROL WIRING REQUIRED FOR ALL EQUIPMENT RELATED TO THE PROJECT. PROVIDE ELECTRICAL BREAKERS, DISCONNECTS AND CONDUCTORS AS REQUIRED PER MECHANICAL SUBMITTALS AND ACTUAL EQUIPMENT NAMEPLATE RATINGS. THE CONTRACTOR SHALL LOCATE ALL RECEPTACLES, SWITCHES, BREAKERS AND DISCONNECTS ON OR ADJACENT TO EQUIPMENT SERVED.

DEVICES SERVING EQUIPMENT IN FINISHED SPACES SHALL BE CONCEALED WITHIN EQUIPMENT ACCESSIBLE THROUGH EQUIPMENT ACCESS PANELS. I.E. DRINKING FOUNTAINS AND WALL MOUNTED AIR HANDLING UNITS. THE CONTRACTOR SHALL LOCATE ALL ELECTRICAL EQUIPMENT REQUIRING SERVICE PER NEC 110.26. MAINTAIN ALL REQUIRED CLEARANCES.

THE CONTRACTOR SHALL MAINTAIN AN ACCURATE RECORD SET OF ANY DEVIATIONS BETWEEN THE WORK AS DESIGNED ON THESE DOCUMENTS AND THAT OF WHICH IS ACTUALLY INSTALLED. THIS RECORD SET OF DRAWINGS SHALL BE KEPT WITH THE GENERAL

ELECTRICAL SHEET INDEX

SHEET# DESCRIPTION ELECTRICAL NOTES SITE POWER PLAN SITE PHOTOMETRIC PLAN E2.1 LIGHTING PLAN ELECTRICAL RISER DIAGRAM AND PANEL SCHEDULES

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

ELECTRICAL SYMBOLS

20 AMP DUPLEX RECEPTACLE (NEMA 5-20R) MOUNTED AT 18" A.F.F. TO CENTER LINE OF OUTLET UNLESS NOTED OTHERWISE. COMMUNICATIONS OUTLET. PROVIDE 3/4" CONDUIT SLEEVE WITH PULL STRING, STUB INTO ACCESSIBLE CEILING SPACE. MOUNT AT 18" A.F.F. TO CENTER OF OUTLET UNLESS NOTED 20 AMP QUADRUPLEX RECEPTACLE (NEMA 5-20R) MOUNTED AT 18" A.F.F. TO CENTER LINE OF OUTLET UNLESS NOTED OTHERWISE.

GROUND FAULT CIRCUIT INTERRUPTER VIA RECEPTACLE GROUND FAULT CIRCUIT INTERRUPTER VIA CIRCUIT BREAKER

PROPOSED ROUTING OF LOW VOLTAGE WIRING FOR DIAGRAMMATIC PURPOSES ONLY.

JUNCTION BOX

SINGLE POLE, 20 AMP, SWITCH. MOUNT 42" A.F.F. TO CENTERLINE OF SWITCH UNLESS

3-WAY, 20 AMP, SWITCH. MOUNT 42" A.F.F. TO CENTERLINE OF SWITCH UNLESS NOTED OTHERWISE.

4-WAY, 20 AMP, SWITCH. MOUNT 42" A.F.F. TO CENTERLINE OF SWITCH UNLESS NOTED

LOW VOLTAGE MOTION/SOUND SENSOR, PASSIVE (PIR) AND ULTRASONIC (US) DUAL TECHNOLOGY. SENSORSWITCH "CM-PDT" SERIES. SELF CONTAINED, PLENUM RATED, DUAL CIRCUIT POWER PACK WITH 20 AMP RATING.

SENSORSWITCH "PP" SERIES. ELECTRICAL PANELBOARD

FUSIBLE DISCONNECT SWITCH A = POLES, B= FRAME SIZE, C= FUSE RATING

FUSIBLE DISCONNECT SWITCH TYPE COMBINATION MOTOR STARTER A = POLES, B= NEMA SIZE, GROUNDING ELECTRODE AND CONDUCTOR SYSTEM

TRANSFORMER

EXHAUST FAN. SEE MECHANICAL DRAWINGS FOR SPECIFICATIONS.

THERMOSTAT LOCATION. SEE MECHANICAL DRAWINGS FOR MOUNTING HEIGHT AND SPECIFICATIONS. WEATHERPROOF

USED FOR CLARITY PURPOSES TO CONNECT GROUPS OF MULTIPLE DEVICES/LIGHT FIXTURES IN DIFFERENT LOCATIONS TOGETHER ON THE SAME BRANCH CIRCUIT AS INDICATED.

mtoddalbrittonarchitect@gmail.com

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THOMASTON GEORGIA

30286



	12/20/23	PERMIT SET
MARK	DATE	DESCRIPTION

SHEET TITLE

ELECTRICAL NOTES

PROJECT DATE: 12/20/2023 PROJECT NUMBER: 2023-0208

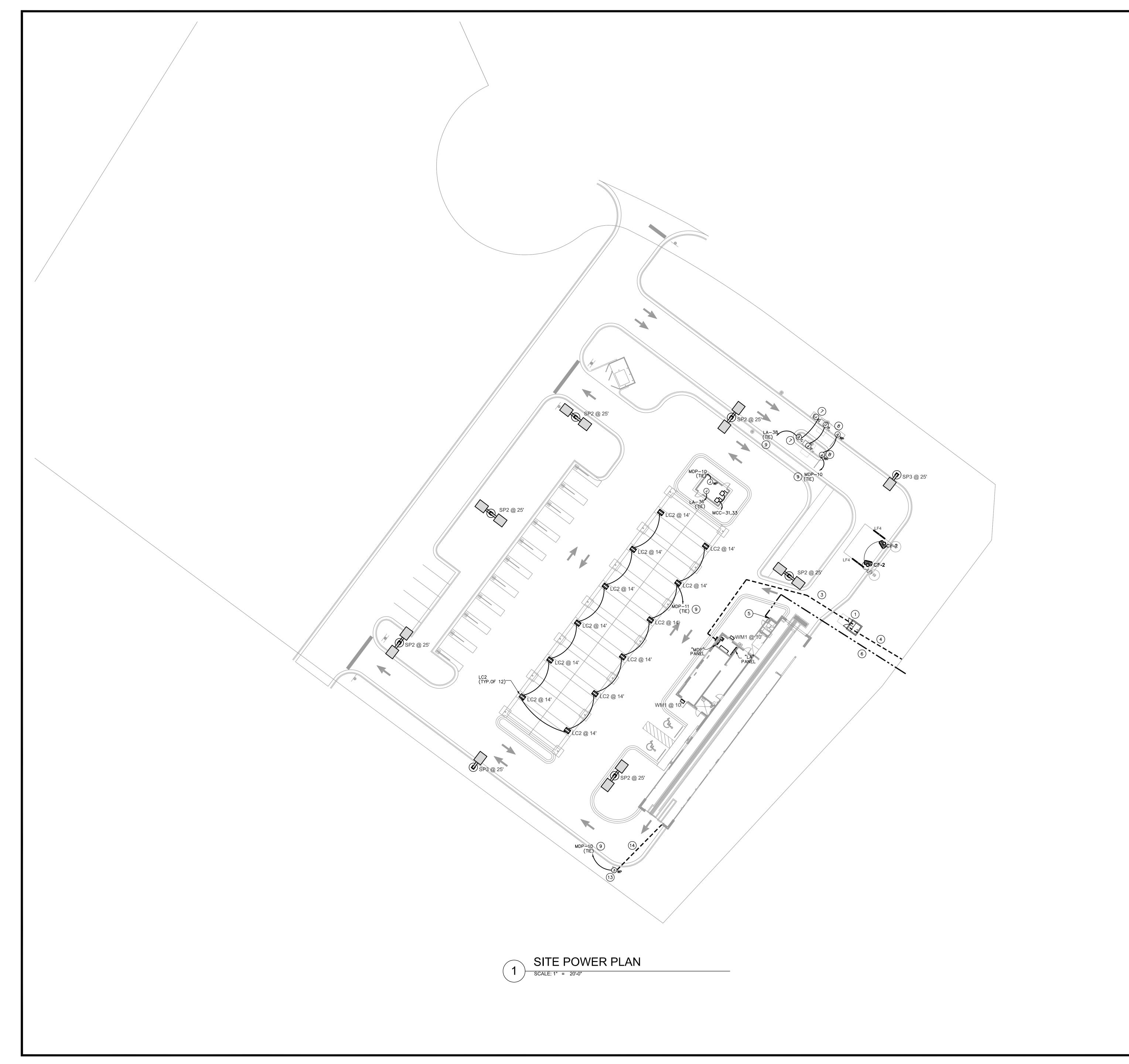
NORTH CAROLINA LICENSE #36775 4245 LAND RD BALL GROUND, GA 30107 PROJECT MANAGER: SCOTT MERIWETHER PHONE 678.246.5166

SCOTT MERIWETHER, P.E.

SHEET 1

DRAWN BY: GMF

OF :



KEY NOTES

- 1) PROPOSED LOCATION OF PAD MOUNTED UTILITY TRANSFORMER. COORDINATE EXACT LOCATION WITH UTILITY PRIOR TO ROUGH IN.
- PROPOSED LOCATION OF BUILDING METER / SHUNT TRIP BUTTON, REFER TO ELECTRICAL RISER DIAGRAM ON SHEET E5.1 FOR REQUIREMENTS.
- PROPOSED ROUTING OF UNDERGROUND SERVICE LATERAL, COORDINATE EXACT ROUTING AS REQUIRED, REFER TO ELECTRICAL RISER DIAGRAM ON SHEET E5.1 FOR REQUIREMENTS.
- 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 E5.1 FOR REQUIREMENTS.
- 6 PROPOSED ROUTING OF COMMUNICATION CONDUITS, COORDINATE EXACT ROUTING AS REQUIRED. REFER TO TELEPHONE DETAIL ON SHEET E5.1 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 E5.1 FOR REQUIREMENTS.
- JUNCTION BOX FOR VACUUM ENCLOSURE LIGHTING. PROVIDE MANUAL SWITCH(ES) AT ENCLOSURE ENTRANCE FOR LIGHTING CONTROL.
- 11) JUNCTION BOX FOR VACUUM ENCLOSURE VENDING RECEPTACLE.
- PROVIDE 60 AMP, NEMA 3R ELECTRICAL DISCONNECT FOR VACUUM MOTOR. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH SYSTEM INSTALLER AND CONNECT FOR OPERATION.
- JUNCTION BOX FOR ELECTRICAL CONNECTION TO WAIT & GO LIGHT (30-C). COORDINATE EXACT LOCATION AND REQUIREMENTS WITH CAR WASH VENDOR DRAWINGS PRIOR TO ROUGH IN AND CONNECT FOR OPERATION.
- (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

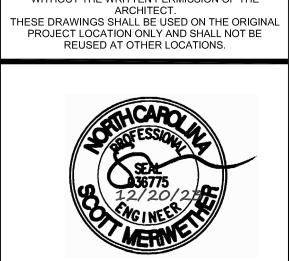
GENERAL MECHANICAL POWER NOTE

6)
REFER TO SHEET E5.1, MECHANICAL EQUIPMENT-ELECTRICAL SCHEDULE, FOR POWER REQUIREMENTS TO ALL MECHANICAL EQUIPMENT INDICATED ON THIS SHEET.

M. TODD ALBRITTON **ARCHITECT**

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SHEET TITLE

PLAN

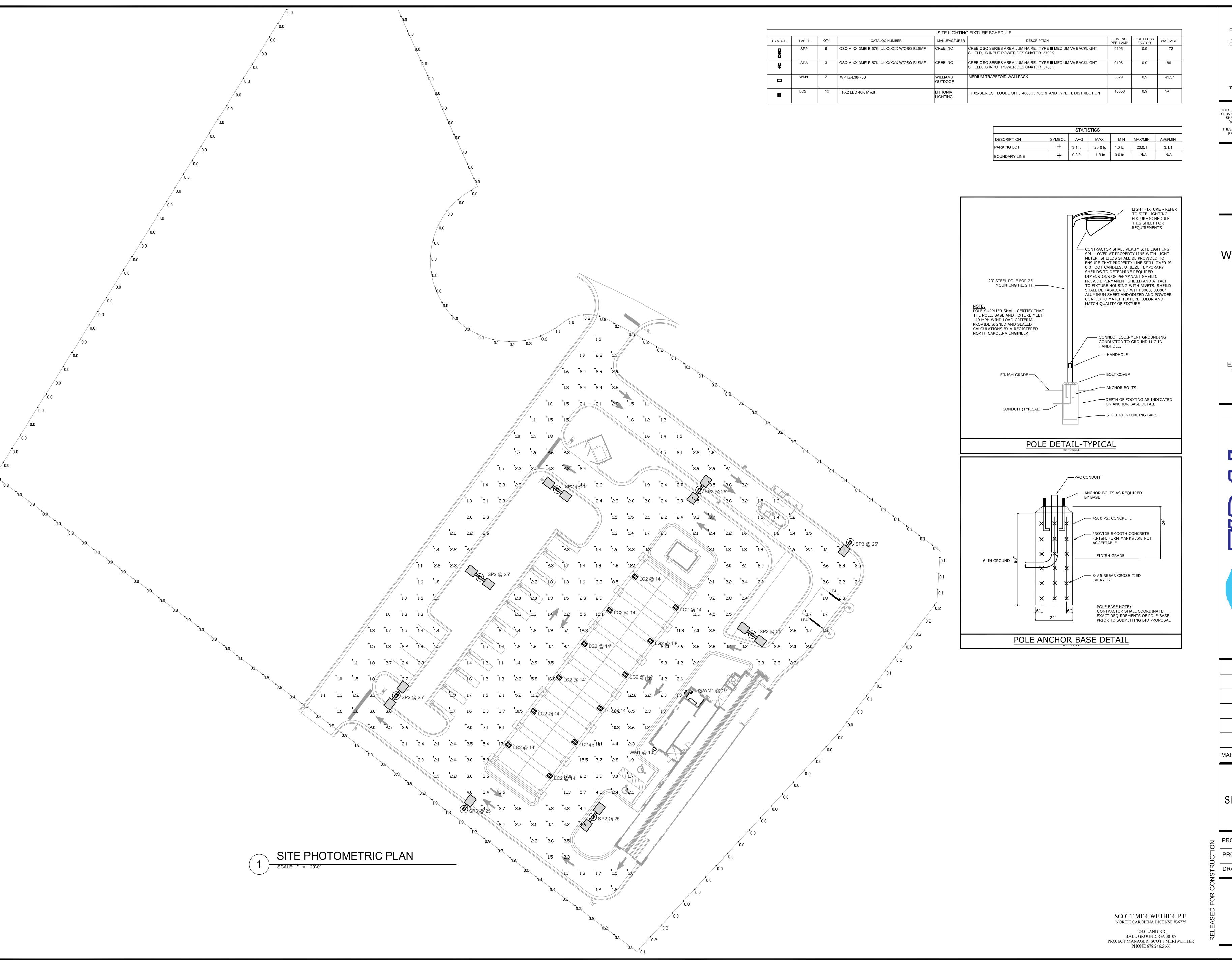
PROJECT DATE: 12/20/2023 PROJECT NUMBER: 2023-0208 DRAWN BY: GMF

SCOTT MERIWETHER, P.E. NORTH CAROLINA LICENSE #36775

4245 LAND RD BALL GROUND, GA 30107 PROJECT MANAGER: SCOTT MERIWETHER PHONE 678.246.5166

SHEET 2

OF 5



M. TODD ALBRITTON

ARCHITECT

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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

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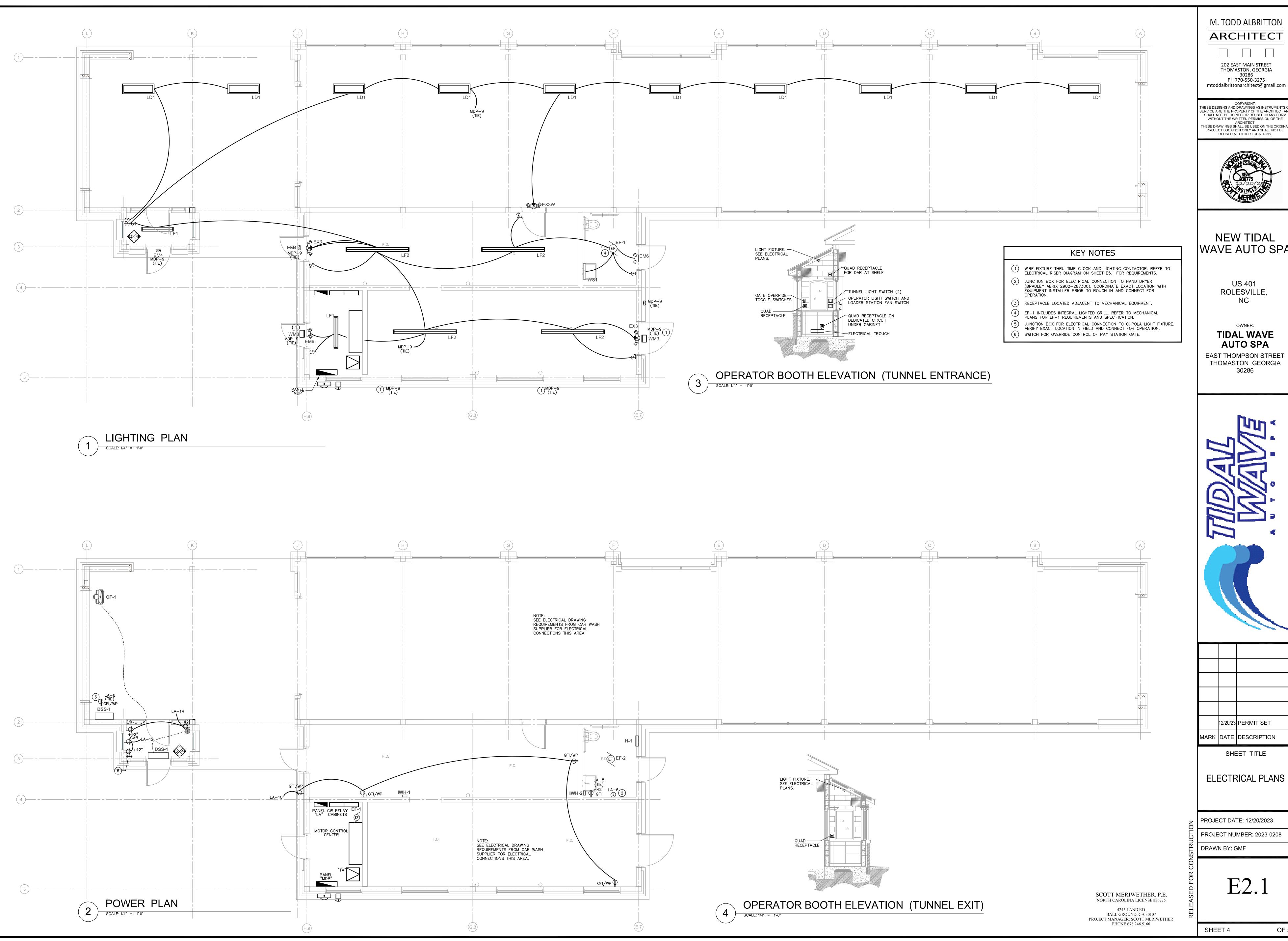
SITE PHOTOMETRIC PLAN

PROJECT DATE: 12/20/2023
PROJECT NUMBER: 2023-020

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M. TODD ALBRITTON **ARCHITECT**

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NEW TIDAL WAVE AUTO SPA

> US 401 ROLESVILLE,

OWNER: TIDAL WAVE **AUTO SPA** EAST THOMPSON STREET

THOMASTON GEORGIA 30286

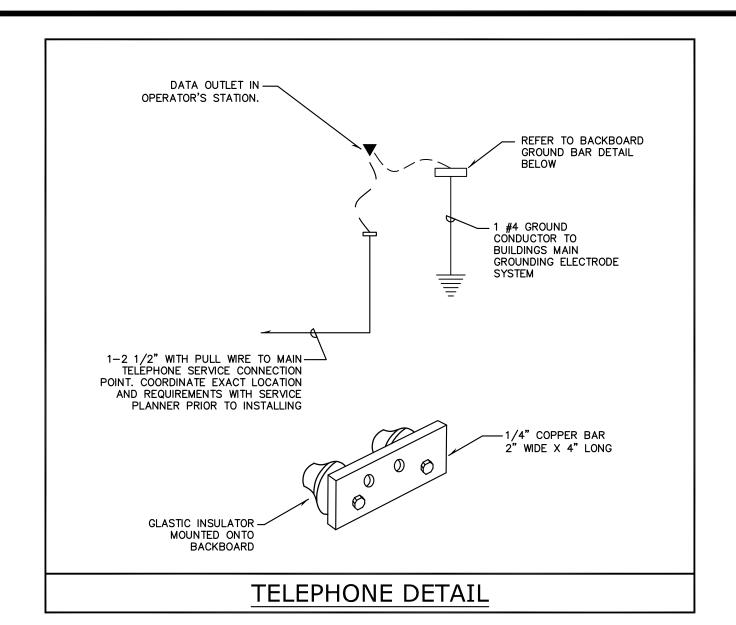


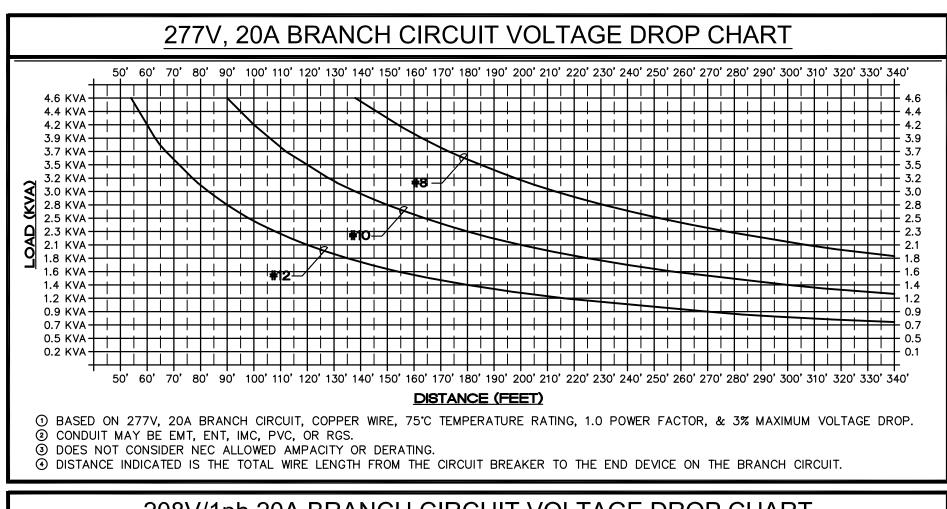
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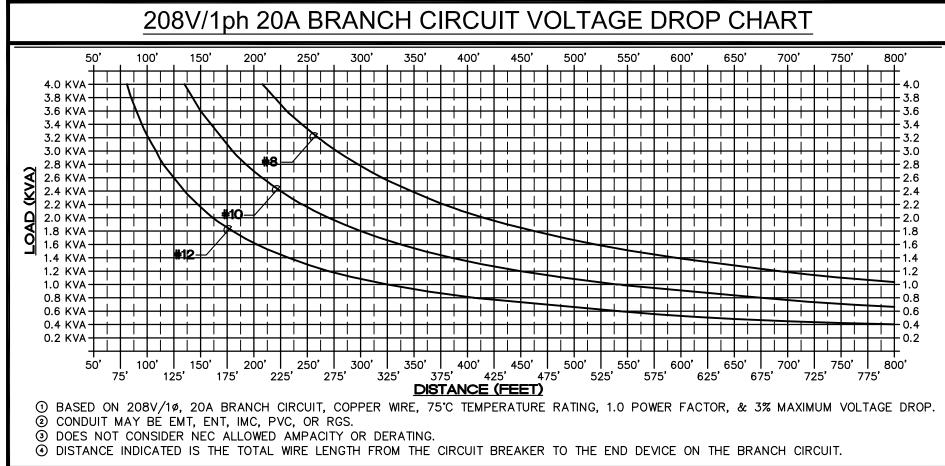
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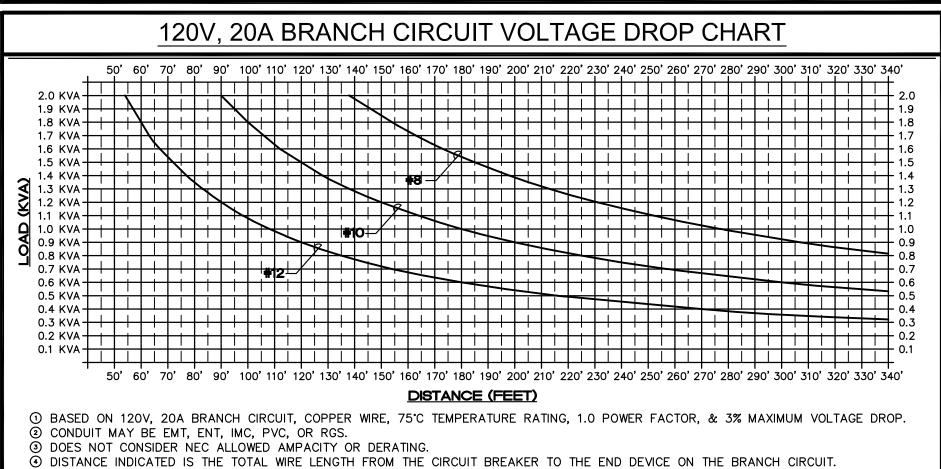
ELECTRICAL PLANS

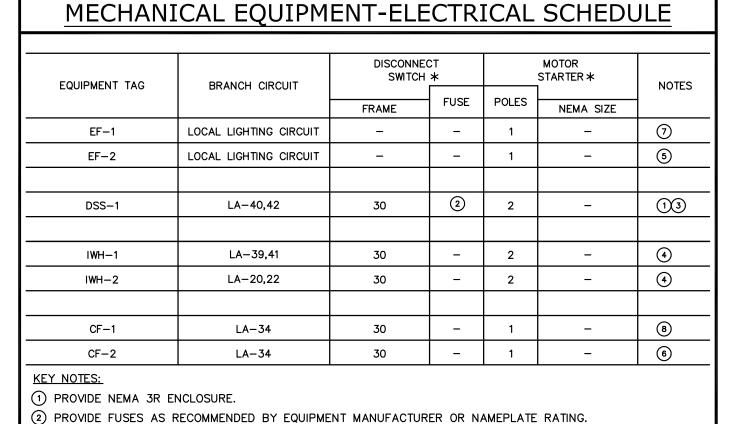
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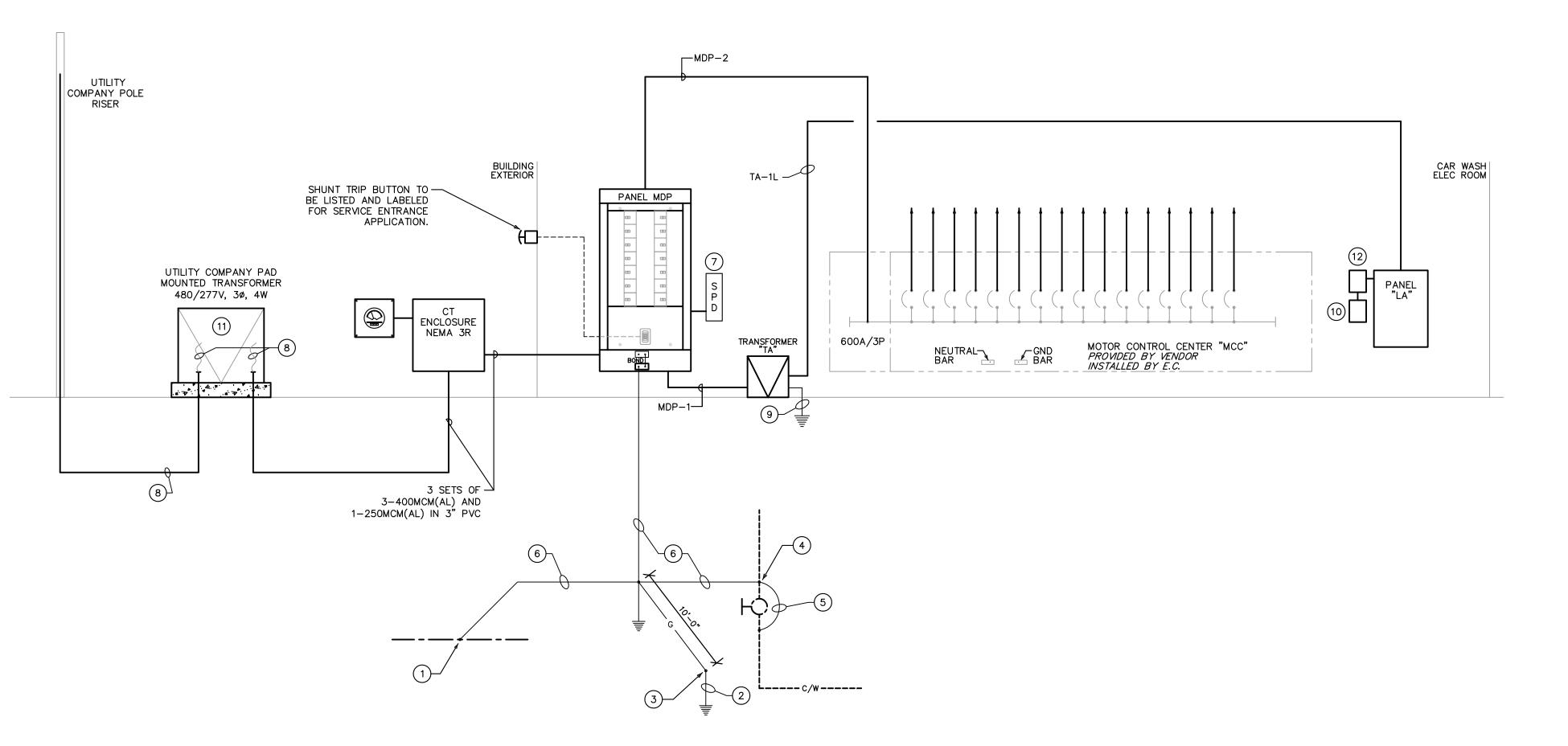
-) WIRE CIRCUIT FROM BREAKER TO CONDENSING UNIT DISCONNECT. WIRE ASSOCIATED AIR HANDLING UNIT FROM CONDENSING UNIT TERMINAL BLOCK. COORDINATE WITH MECHANICAL EQUIPMENT. PROVIDE MOTOR
- RATED SWITCH ADJACENT TO AHU FOR LOCAL DISCONNECTING MEANS.) PROVIDE MOTOR RATED SWITCH. MOUNT SWITCH ADJACENT TO UNIT.
-) CONTROL FAN WITH LOCAL LIGHT SWITCH IN ROOM. FOR 277 VOLT LIGHTING BRANCH CIRCUIT, PROVIDE STEP DOWN TRANSFORMER AND CONNECT FOR OPERATION.
- 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
-) WIRE CIRCUIT TO FAN FOR CONTINUOUS OPERATION. FOR 277 VOLT LIGHTING BRANCH CIRCUIT, PROVIDE STEP DOWN TRANSFORMER AND CONNECT FOR OPERATION. ONTROL 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.

RISER	KEY	NOTES
	• `— •	

- (1) EXOTHERMIC CONNECTION. ELECTRICALLY CONTINUOUS STEEL REINFORCING BAR, 20 FEET AT MINIMUM, IN BUILDING FOUNDATION IN DIRECT CONTACT WITH EARTH.
- 2 PROVIDE 10 FOOT BY 3/4" DIAMETER COPPER GROUND ROD.
- (3) CODE APPROVED GROUNDING CLAMP, TYPICAL.
- (4) CONNECTION TO METALLIC COLD WATER PIPE BEFORE FIRST VALVE WITH HEAVY DUTY BRONZE GROUND CLAMP SUITABLE FOR THIS
- INSTALLATION.
- (5) PROVIDE 1#3/0(CU) BONDING JUMPER AROUND FIRST VALVE.
- SCHEDULE 40 PVC.

 $\binom{6}{}$ PROVIDE 1#3/0(CU) GROUNDING ELECTRODE CONDUCTOR IN 3/4"

- PROVIDE SURGE PROTECTION DEVICE (SPD) WITH 200KA SURGE CURRENT RATING IN A NEMA 12 ENCLOSURE, SURFACE MOUNTED. SPD SHALL BE UL 1449, 3RD EDITION LISTED.
- (8) COORDINATE EXACT REQUIREMENTS FOR CONDUITS WITH UTILITY COMPANY PRIOR TO ROUGH IN. PROVIDE 8' OF SLACK OF EACH CONDUCTOR FOR FUTURE EXTENSION AND CONNECTION BY THE UTILITY
- 9 PROVIDE 1#6 GROUNDING ELECTRODE CONDUCTOR IN 3/4" SCHEDULE 40 PVC CONDUIT TO NEAREST EFFECTIVELY GROUNDED BUILDING STRUCTURAL STEEL MEMBER. BOND TO COLD WATER PIPING IN
- 10 PROVIDE INTERMATIC "ET1100" SERIES TIME CLOCK IN A NEMA ONE
- UTILITY COMPANY SHALL PROVIDE A 300 KVA TRANSFORMER OR
- PROVIDE SQUARE D "LG" SERIES ELECTRICALLY HELD CONTACTOR WITH 4-30 AMP RATED POLES AND 120 VOLT COIL IN A NEMA 3R



ELECTRICAL RISER DIAGRAM

		_	_						
PANEL SPECIFICATIONS: SQUARE D TYPE "HCM" I—LINE OR APPROVED EQUIVALENT 800 AMP SHUNT TRIP MAIN CIRCUIT BREAKER SURFACE MOUNTED			BREAK	POLES	"MDP"	AIC SYMN 65,000 VOLTAGE: 480/277	<u>L</u>		
TAG	CIRCUIT DESCRIPTION		E R		FEEDER	A PHASE KVA	B PHASE KVA	C PHASE KVA	NOTES
MDP-1	PANEL "LA"	-	70	3	4#1/0 & 1#6G IN 2"	11.5	14.1	13.5	
MDP-2	MOTOR CONTROL CENTER	_	600	3	(2) SETS OF 4-500MCM(AL) & 1#1G IN 3"	159.1	159.1	159.1	
	RO UNIT (1-D)	_	15	3	3#10 &1#10G IN 3/4"	2.0	2.0	2.0	
MDP-4	RO REPRESSURIZER (1-E)	_	15	3	3#10 &1#10G IN 3/4"	2.0	2.0	2.0	
	H20 REP. PUMP_5 (1-H)	-	15	3	3#10 &1#10G IN 3/4"	2.0	2.0	2.0	
MDP-6	RO REJECT PUMP (1-X)	_	15	3	3#10 &1#10G IN 3/4"	2.0	2.0	2.0	
MDP-7	COMPRESSOR 10 HP (10-A)	T -	25	3	3#10 &1#10G IN 3/4"	3.9	3.9	3.9	
MDP-8	COMPRESSOR 10 HP (10-A)	_	25	3	3#10 &1#10G IN 3/4"	3.9	3.9	3.9	
MDP-9	LTG, CW BUILDING	T -	20	1	2#12 & 1#12G IN 3/4"	2.0	-	-	
MDP-10	LTG, VACUUM ENC/PAY & PREP CANOPY	Τ-	20	1	2#12 & 1#12G IN 3/4"	- 1	1.0	-	
MDP-11	LTG, VACUUM CANOPIES	-	20	1	2#12 & 1#12G IN 3/4"	-	-	3.2	
MDP-12	BREAKER PROVISION	-	_	-	-	-	-	-	
MDP-13	BREAKER PROVISION	_	_	-	-	- 1	-	-	
MDP-14	BREAKER PROVISION	_	_	_	-	-	-	_	
MDP-15	BREAKER PROVISION	-	_	_	-	-	-	_	
MDP-16	BREAKER PROVISION	T -	_	_	_	- 1	_	_	
MDP-17	BREAKER PROVISION	T -	_	_	-	- 1	-	-	
MDP-18	BREAKER PROVISION	-	-	_	-	-	-	-	
MDP-19	BREAKER PROVISION	-	-	_	-	-	-	-	
MDP-20	BREAKER PROVISION	_	_	_	_	-	_	_	
MDP-21	BREAKER PROVISION	_	_	-	_	-		-	
MDP-22	SPD	_	30	3	4#8 & 1#10G IN 3/4"	-		-	
						188.4	190.0	191.6	KVA TOTAL PER PHASE
						680	686	692	AMPS TOTAL PER PHAS
						·	570.0	-	KVA TOTAL

	,					ı								
PANEL SPECIFICATIONS: SQUARE D "NQ" SERIES OR EQUIV. 150 AMP MAIN CIRCUIT BREAKER SURFACE MOUNTED	W R E	のにのコとい	.cozoo	BREAK	0-800-	71	'LA	11	C-RCU-	田 R E A K L	COZDU-	0 K O D Z (W R E	AIC SYMMETRICAL: 22,000 VOLTAGE: 208/120V, 3ø, 4 WIRE
CIRCUIT DESCRIPTION		D	Ť	E R	Ť	A PHASE KVA	B PHASE KVA	C PHASE KVA] ¦	R		D		CIRCUIT DESCRIPTION
CONTROL_120V (1-A)	2#12	1#12	3/4"	15	1	0.8 -			2	20	_	_	_	SPARE
CONTROL_120V (1-DE)	2#12	1#12	3/4"	15	3		0.8 -		4	20	_	_	-	SPARE
CONTROL_120V (1-X)	2#12	1#12	3/4"	15	5			0.8 1.5	6	20	3/4"	1#12	2#12	HAND DRYER
H20 SOFTENER (1-P)	2#12	1#12	3/4"	15	7	0.8 0.4			8	20	3/4"	1#12	2#12	RECEPT., RR/MECH EQUIPMENT
BOILER HEATER (9-C)	2#10	1#10	3/4"	30	9		0.8 0.8		10	20	3/4"			RECEPT., BLDG EXT/EQUIP/MECH
DRAFT HEATER (9-E)		1#12	3/4"	15	11			0.8 0.8	12	20	3/4"	1#12	2#12	RECEPT., OPERATOR STATION
DRAFT HEATER (9-E)	2#12	1#12	3/4"	15	13	0.8 0.8		•	14	20	3/4"	1#12	2#12	RECEPT., OPERATOR STATION
DRAFT HEATER (9-E)	2#12	1#12	3/4"	15	15	·	0.8 -		16	20	-	_	_	SPARE
NEON SIGNS	2#12	1#12	3/4"	20	17			0.8 -	18	20	_	_	_	SPARE
NEON SIGNS	2#12		3/4"	20	19	0.8 2.1			20	30	3/4"	1#10	2#10	IWH-2
GATE (20-D)	2#12	1#12	3/4"	20	21		0.8 2.1		22	2				
RELAY BOX (20-1)	3#12	1#12	3/4"	20	23			0.8 -	24	20	_	_	_	SPARE
MENU SIGN (30-i)	3#12	1#12	3/4"	20	25	0.8 0.8			26	20	3/4"	1#12	2#12	WAIT & GO (30-C)
SERVER COMPUTER	3#12	1#12	3/4"	20	27		0.8 0.8		28	20	3/4"	1#12	2#12	RECEIVED SIGN (30-G)
RECLAIM UNIT (1-A)	3#8	1#10	3/4"	35/	29			0.8 0.8	30	20	3/4"	1#12	2#12	ENTRANCE ARCH (40-E)
					31	0.8 0.8		•	32	20	3/4"			AIR DRYER (10-L)
				/3	33		0.8 1.4		34	20	3/4"			CF-1,2
PYLON SIGN	2#8	1#10	3/4"	20	35			1.2 1.2	36	20	3/4"			RECEPT., CANOPY VENDING (GFI)
SPARE	T -	_	_	20	37	- 0.8			38		3/4"			PAYSTATION KIOSK EQUIPMENT
IWH-1	2#10	1#10	3/4"	30	39	,	2.1 1.1		40	20	3/4"			DSS-1
				/2	41		· ·	2.1 1.1	42	1 2				
				-		11.5	14.1	13.5	_	TOTAL	PER PI	- HASE		
						96	118	113			L PER I			•
						39.1 KVA TOTAL								

MADIC	1014	VOI	_TAGE	MOUNTING		SECONDARY FE	EEDER	NOTEC
MARK	KVA	PRIMARY	SECONDARY	MOUNTING	MARK	BREAKER	FEEDER	NOTES
"TA"	45	480 VOLT 3ø,3W	208/120 VOLT 3ø,4W	FLOOR	TA-1L	1	4#1/0 & 1#6G IN 2"	

	RELAY	CABINET 1	(COMPUTI	ER SCREEN	N) SCHEDU	<u>LE</u>
RELAY	A	<u>B</u>	<u>C</u>	<u>D</u>	<u>E</u>	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 H20	TIREBRUSH 1 AIR	UNDERBODY	SPINNER FLIP	SPARE	SPARE
5	WRAP 2 H20	TOPBRUSH 1 H20	SPARE	TOPBRUSH 1 AIR	SPARE	TIREBRUSH 2 PASSENGER SIDE AIR
6	TOPBRUSH 2 H20	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	TIRESHINE 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	<u>B</u>	<u>C</u>	<u>D</u> .	<u>E</u>	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	TIRESHINE 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	

<u> </u>	RELAY CABINET IN	NPUTS SCHEDULE	
<u>A</u>	<u>B</u>	<u>C</u>	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 ICE CUBE RELAY SO THE LIGHT IS NOT LEFT ON ALL NIGHT LONG ALL BLOWER LIGHTS ARE TIED TOGETHER INTO 1 RELAY
- IF YOU HAVE ANY QUESTIONS OR ARE UNSURE OF WIRING 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

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M. TODD ALBRITTON

NEW TIDAL WAVE AUTO SPA

> US 401 ROLESVILLE,

OWNER: **TIDAL WAVE AUTO SPA**

EAST THOMPSON STREET THOMASTON GEORGIA 30286



12/20/23 PERMIT SET MARK DATE DESCRIPTION

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ELECTRICAL RISER DIAGRAM AND PANEL SCHEDULES

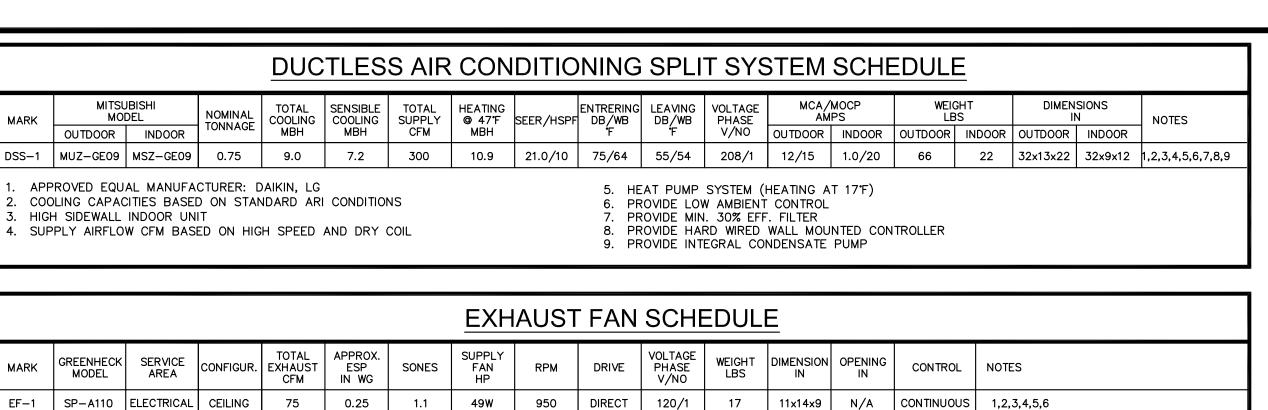
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4245 LAND RD BALL GROUND, GA 30107 PROJECT MANAGER: SCOTT MERIWETHER PHONE 678.246.5166

SHEET 5

OF :



EF-2 | SP-A110-L | RESTROOM | CEILING | 75 | 0.25 | 1.1 |

. APPROVED EQUAL MANUFACTURER: COOK, PENN, ACME

5. PROVIDE FACTORY TIME DELAY SWITCH AND SET TO 10 MIN.

2. CEILING EXHAUST FAN WITH INTEGRAL CEILING GRILLE

3. PROVIDE FACTORY MOUNTED DISCONNECT SWITCH

4. PROVIDE MOTOR WITH THERMAL OVERLOADS

6. PROVIDE FAN/LIGHT COMBINATION.

NOTES:

49W 950 DIRECT 120/1 17 11x14x9 N/A SWITCH 1,2,3,4,5

NORMAL POWER WIRING BY ELEC. CONTRACTOR

c. FIELD ADJUST OPENINGS WITH STRUCTURE.

ACCORDING TO NATIONAL ELECTRICAL CODE PAR. 430-32.

SHALL BRING ANY DISCREPANCIES TO THE ATTENTION OF ENGINEER

GENERAL FAN NOTES:

COORDINATION NOTE:

PROVIDE BUILT IN THERMOSTAT

ELECTRIC HEATER SCHEDULE										
IARK	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 F3422T	WALL	2.0	100	N/A	208/1	9.6/15	6	_	1,2,3

ACCESSORIES WITH ELECTRICAL CONTRACTOR PRIOR TO PURCHASING AND INSTALLATION AND

a. MOTOR STARTERS, DISCONNECTS (IF NOT FACTORY PROVIDED) AND ALL EQUIPMENT

b. ALL CONTINUOUS-DUTY MOTORS SHALL BE PROVIDED WITH OVERLOAD PROTECTION

MECHANICAL CONTRACTOR SHALL COORDINATE ALL ELECTRICAL REQUIREMENTS AND

	MECHANICAL NOTES
1.	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—S5, 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—9S, Z10.3—9S, Z21.S—94, Z21.S3—9S.
2.	THE CONTRACTOR SHALL PAY ALL COSTS OF PERMIT, INSPECTIONS AND ALL OTHER COSTS INCIDENTAL

NOTES:

MACROAIR, PATTERSON

PROVIDE WALL SWITCH

WALL HIGH VOLUME HIGH SPEED FAN

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.

20. 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 TIRADE PRIOR TO ANY PURCHASING OR INSTALLATION.

21. PROVIDE A MIN. OF 36" CLEARANCE IN FRONT OF ALL 120-208 VOLT PANELS AND MIN. 42" CLEARANCE IN FRONT OF ANY 240-48D VOLT PANEL. PROVIDE ADEQUATE SIDE CLEARANCE PER NEC.

22. 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.

26. THE CONTRACTOR SHALL VERIFY FIELD CONDITIONS PRIOR TO BIDDING, ORDERING, FABRICATION OR INSTALLATION OF MATERIALS OR EQUIPMENT.

CEILING FAN SCHEDULE

 CF-1
 DAYTON 1VCF9
 CW TUNNEL ENTRY
 1/4
 DIRECT
 120/1
 2.9/10
 100
 1'-6"
 1,2,3,4,5

 CF-2
 DAYTON 1VCF9
 PAY STATION
 1/4
 DIRECT
 120/1
 2.9/10
 100
 1'-6"
 1,2,3,4,5

. APPROVED EQUAL MANUFACTURER: BAF, RITEHITE, 4. PROVIDE MOUNTING KIT AS REQUIRED

DRIVE VOLTAGE PHASE V/NO MCA/MOCP WEIGHT DIAMETER FT

ENVIRONMENTS

5. PROVIDE FAN RATED FOR WASHDOWN

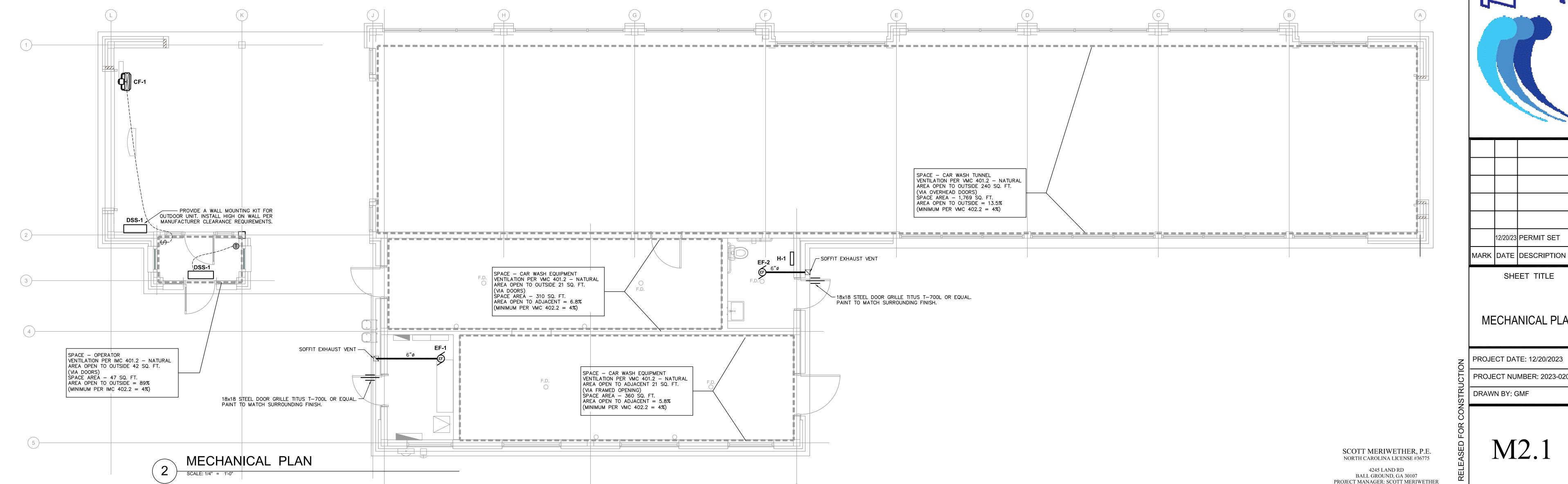
DIAMETER NOTES

27. 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 DRA~NGS AND 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

MECHANICAL NOTES	MECHANICAL LEGEND
1. THE CONTRACTOR SHALL FURNISH ALL LABOR, MATERIALS, AND EQUIPMENT NECESSARY FOR THE	D. DEEDIGED ANT. DIDING
INSTALLATION OF A COMPLETE SYSTEM IN ACCORDANCE WITH THESE DRAWINGS, INTERNATIONAL BUILDING CODE (IBC) 2012, INTERNATIONAL ENERGY CONSERVATION CODE (IECC) 2012 AND ALL OTHER	REFRIGERANT PIPING DROPPING OR RISING PIPE
APPLICABLE STATE, COUNTY AND LOCAL ORDINANCES AND THE LATEST ADDITION OF THE FOLLOWING PUBLICATIONS; SMACNA—S5, 92, 95; ASHRAE 15—01, 34—01, 62.1; NFPA 70—02, 72—02, 90A—02,	——————————————————————————————————————
90B-02, 91-99, 96-01; ANSI Z10.1-9S, Z10.3-9S, Z21.S-94, Z21.S3-9S.	——————————————————————————————————————
2. THE CONTRACTOR SHALL PAY ALL COSTS OF PERMIT, INSPECTIONS AND ALL OTHER COSTS INCIDENTAL	NEW SCOPE OF WORK
TO THE COMPLETION AND TESTING OF THIS WORK.	EXISTING
3. THE CONTRACTOR SHALL VISIT THE SITE AND COORDINATE WORK WITH OTHER TRADES.	24x12 RECTANGULAR DUCT SIZE: FIRST DIMENSION IS SIDE DRAWN
4. THE CONTRACTOR SHALL SUPPLY THE ARCHITECT WITH "AS-BUILT" DRAWINGS.	ROUND DUCTWORK OR FLUE PIPING
5. CONTRACTOR SHALL SUBMIT, FOR APPROVAL FIVE [5] COPIES OF MANUFACTURER'S DRAWINGS FOR	NEW FLEXIBLE ROUND DUCT
EACH PIECE OF EQUIPMENT AND CONTROLS INCLUDED IN CONTRACT.	ADJUSTABLE DEFLECTOR VANES AT BRANCH DUCT
6. ALL MATERIAL SHALL BE NEW OF U.S. MANUFACTURER OF GOOD QUALITY. ALL WORK SHALL BE	SQUARE DUCT ELBOW WITH TURNING VANES
PERFORMED AT INDUSTRY STANDARD QUALITY LEVEL BY CERTIFIED PROFESSIONALS. ALL EQUIPMENT	FD FIRE DAMPER IN DUCT THROUGH WALL
SHALL BE UL OR ETL LISTED.	AUTOMATIC (MOTORIZED) CONTROL DAMPER
7. 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	MANUAL VOLUME DAMPER
R-6 MIN. ALL METAL EXHAUST, MAKE-UP OR OTHERWISE DUCTS INSTALLED IN LOCATIONS WHERE	SPIN-IN TAP
DEWPOINT CONDITIONS CAN OCCUR INSIDE THE DUCT SHALL BE EXTERNALLY INSULATED WITH R-6 MIN.	WALL MOUNTED THERMOSTAT WITH TEMPERATURE SENSOR
8. DUCT SIZES SHOWN ARE INSIDE DIMENSIONS.	WALL MOUNTED THERMOSTAT WITH REMOTE TEMPERATURE SENSOR
9. ALL AIR DEVICES (DIFFUSERS, REGISTERS AND GRILLES) SHALL BE EXPOSED SURFACE OFF WHITE	CS CARBON MONOXIDE (CO) SENSOR
BAKED ENAMEL FINISH OR AS SPECIFIED BY ARCHITECT. DEVICES SHALL BE AS SPECIFIED OR EQUAL	NS NITROGEN DIOXIDE (NO2) SENSOR FV FLAMMABLE VAPORS SENSOR
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	FV FLAMMABLE VAPORS SENSOR
INTERNATIONAL MECHANICAL CODE (IMC) 2012 FOR BALANCED AIR FLOW.	COP CARBON MONOXIDE CONTROL PANEL
10. CONTROLS:	U.C. UNDERCUT DOOR 3/4"
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	

	MECHANICAL ABBREVIATION LEGEND					
AFF	ABOVE FINISHED FLOOR	MAX	MAXIMUM			
CFM	CUBIC FEET PER MINUTE	МВН	THOUSAND BTU PER HOUR			
DIA	DIAMETER	MIN	MINIMUM			
DX	DIRECT EXPANSION	N	NEW			
E/A	EXHAUST AIR	0/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			
Н	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			

WAVE AUTO SPA



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

M. TODD ALBRITTON

ARCHITECT

202 EAST MAIN STREET

THOMASTON, GEORGIA

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REUSED AT OTHER LOCATIONS.

NEW TIDAL

US 401

ROLESVILLE,

NC

WITHOUT THE WRITTEN PERMISSION OF THE

12/20/23 PERMIT SET

SHEET TITLE

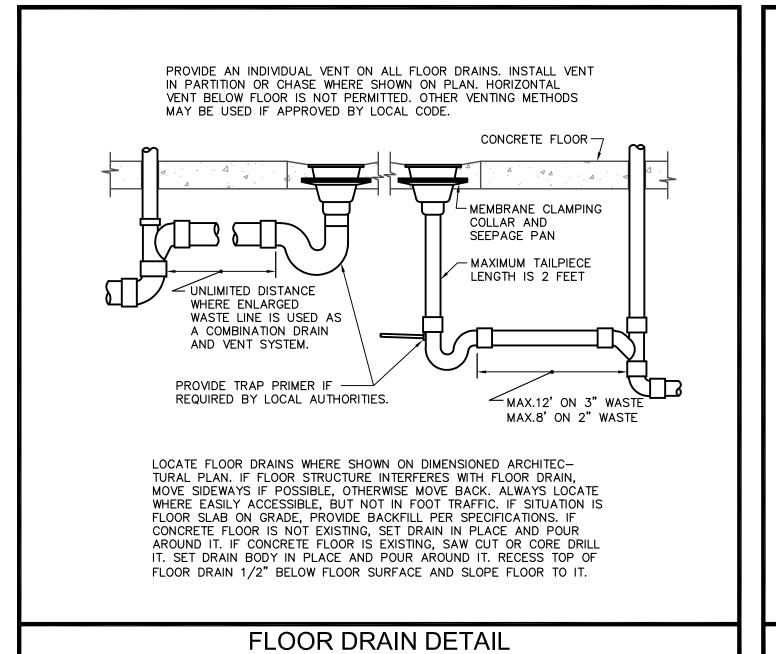
MECHANICAL PLAN

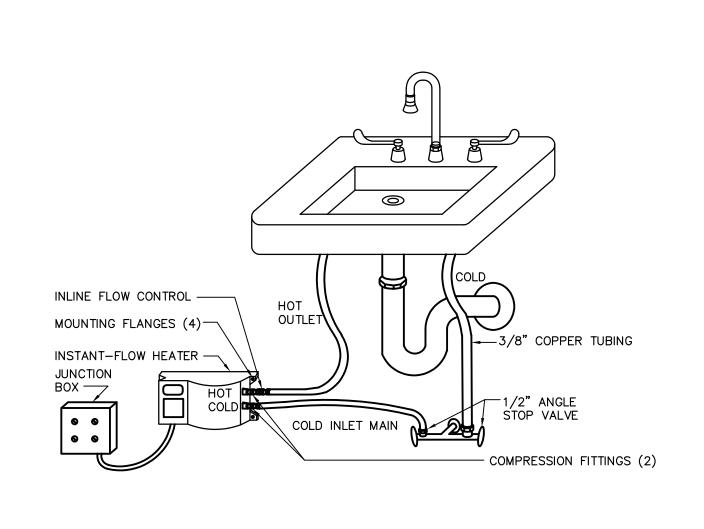
PROJECT DATE: 12/20/2023

PROJECT NUMBER: 2023-0208 DRAWN BY: GMF

PHONE 678.246.5166

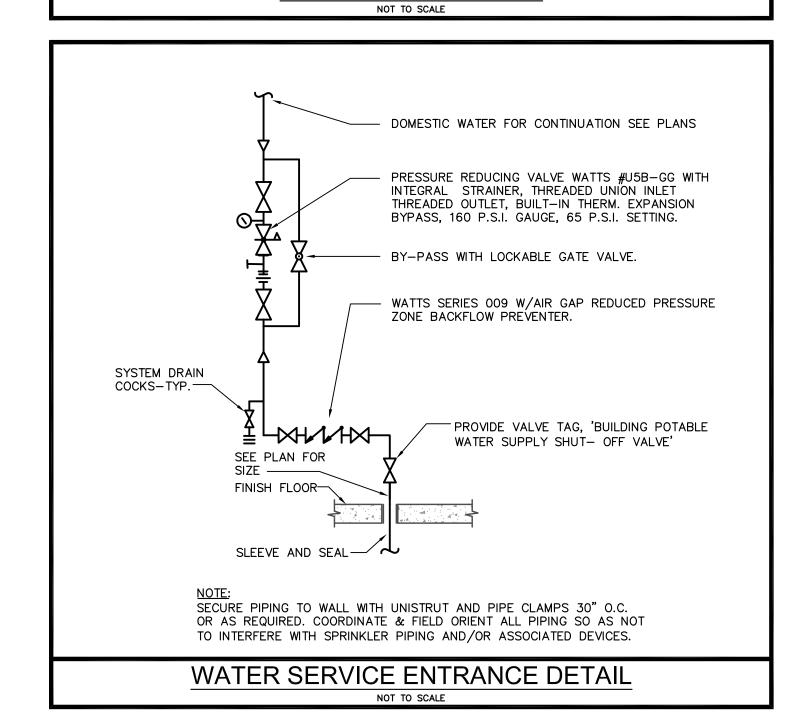
SHEET 1





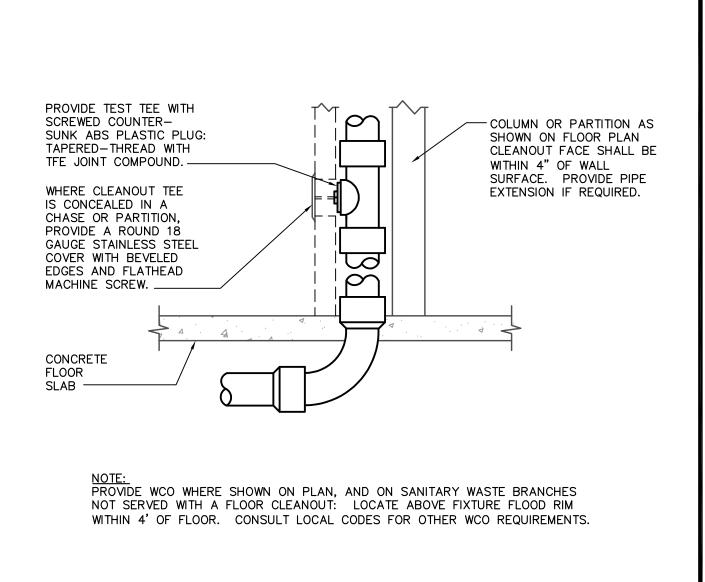
INSTANTANEOUS WATER HEATER CONNECTIONS

NOT TO SCALE

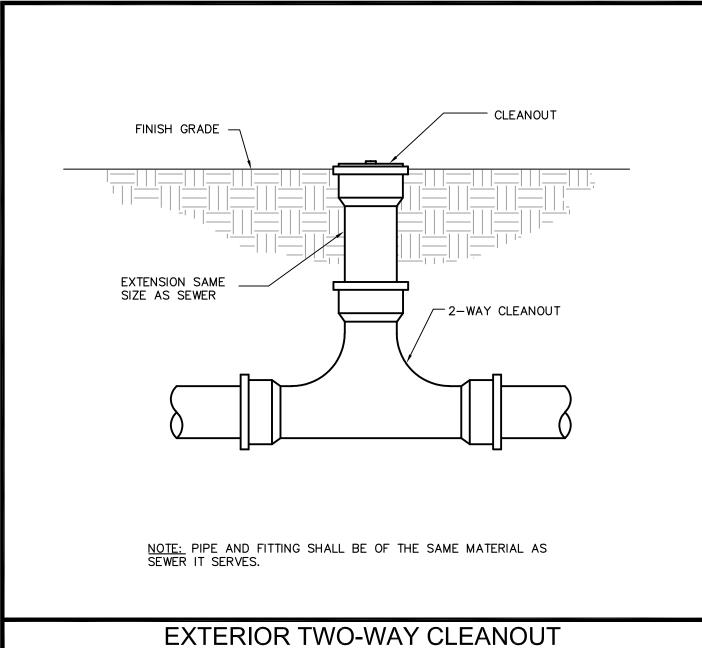


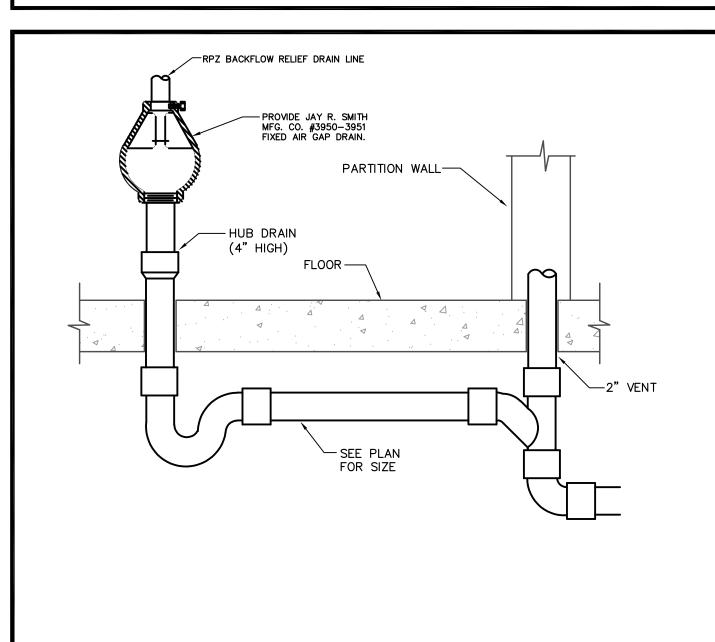
PROVENT SYSTEM "TG" SERIES TRAP GUARD

TRAP GUARD DETAIL



WALL CLEANOUT DETAIL 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
- 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.

AND PRESSURE REDUCING VALVE AT WATER SERVICE.

EQUIPMENT CONNECTIONS.

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

8. ALL WORK SHALL BE COORDINATED WITH OTHER TRADES TO AVOID INTERFERENCE WITH THE

- 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
- 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.
- ALLOWS. PVC MAY NOT BE USED THRU RATED ASSEMBLIES OR IN PLENUMS. 13. ALL FIXTURES MUST BE PROVIDED WITH READILY ACCESSIBLE STOPS AND APPROPRIATELY MARKED ACCESS PANELS. COORDINATE LOCATIONS WITH GENERAL CONTRACTOR PRIOR TO

12. SOIL, WASTE, VENT AND RAINWATER PIPING SHALL BE CAST IRON OR PVC, WHERE CODE

- 14. FURNISH AND INSTALL APPROVED WATER HAMMER ARRESTORS FOR ALL (GROUP) PLUMBING FIXTURES, SIZED AND LOCATED PER MANUFACTURER'S INSTALLATION INSTRUCTIONS AND
- 15. DIELECTRIC COUPLINGS ARE REQUIRED BETWEEN ALL DISSIMILAR METAL IN PIPING AND
- 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
- 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. PROVENT 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.

RPZ BACKFLOW RELIEF DRAIN DETAIL

PLUMBING SHEET INDEX

SHEET#	DESCRIPTION
P0.1	PLUMBING NOTES AND DETAILS
P2.1	PLUMBING PLANS
	<u> </u>

	PLUMBING		<u>חא</u>
AAV	AIR ADMITTANCE VALVE	5	SANITARY SEWER PIPING
AFF	ABOVE FINISHED FLOOR	├ ── ∨ ── ⋚	VENT PIPING
СО	CLEAN OUT		DOMESTIC COLD WATER PIPING
CW	DOMESTIC COLD WATER		HOT WATER PIPING (110°)
HW	DOMESTIC HOT WATER		HOT WATER RECIRCULATING PIPING
HWR	DOMESTIC HOT WATER RECIRCULATING		CONDENSATE PIPING
SF	SQUARE FEET		STORM DRAIN PIPING
VTR	VENT THRU ROOF	├── OD ──	OVERFLOW STORM DRAIN LINE
\bowtie	BALL VALVE	⊱— G — ∫	GAS PIPING
M	GLOBE VALVE	+	CLEAN OUT
♂	CHECK VALVE		P-TRAP
oxdot	GATE VALVE	<u> </u>	CAPPED END OF PIPE
▼	GAS COCK	\longrightarrow	PIPE RISE UP
	POINT OF CONNECTION	5———	PIPE DOWN OR DROP
₩ \$\begin{align*} \text{\$\partial} \te	GAS PRESSURE REGULATOR	ф	DOWNSPOUT COVER

SLOPE OF HORIZ. SHOCK ARRESTOR SCHEDULE DRAINAGE PIPE

SIZE (inches)	MINIMUM SLOPE (inch per foot)	PDI DESIGNATION	SIOUX CHIEF MODEL	FIXTURE UNITS	CONNECTION		
2-1/2 or less	1/4	Α	652-A	1–11	1/2"		
3 to 6	1/8	В	653-B	12-32	3/4"		
8 or larger	1/16	C 654-C 33-60 1"					
TABLE 704.1 OF T	THE NCPC 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		ABOVE AND UNDERGROUND	PVC	NONE
SAN. VENT	v	ABOVE GROUND	PVC	NONE
COLD WATER		ABOVE AND UNDERGROUND	PEX-A *TYPE "L" COPPER	_
HOT WATER		ABOVE AND UNDERGROUND	PEX-A *TYPE "L" COPPER	1" ARMAFLEX
STORM	SD	ABOVE AND UNDERGROUND	PVC	NONE
OVER. STORM	OD	ABOVE AND UNDERGROUND	PVC	NONE
GAS	G	ABOVE AND UNDERGROUND	BLACK STEEL SCH.40	NONE
CONDENSATE	CD	ABOVE AND UNDERGROUND	PVC	1" ARMAFLEX

PLUMBING EQUIPMENT & FIXTURE SCHEDULE

HLAV F	IANDICAP LAVATORY, AMERICAN STANDARD DECLYN WALL HUNG LAVATORY MODEL #0321.075, WHIT AUCET AMERICAN STANDARD #7385.003, SINGLE LEVER. MUST MEET ADA CODE CONTRACTOR TO SUPPLY CONCEALED ARM SUPPORT CARRIER FOR MOUNTING OF LAVATORY.
HWC FF	VATER CLOSET, AMERICAN STANDARD CADET ELONGATED, FLOOR MOUNTED, WHITE, 1.28 GPF. OPEN RONT SEAT. 16—1/2" HEIGHT, MUST MEET A.D.A. CODE. FLUSH LEVER SHALL BE LOCATED ON SIDE OF TANK AWAY FROM ADJACENT WALL.

5"x5" SQUARE GRATE FLOOR DRAIN, WADE MODEL # 1103G5-TY. PROVIDE WITH TRAP PRIMER. COORDINATE FINISH WITH ARCHITECT. HANDICAP/DRINKING FOUNTAIN, ELKAY #VRCTL8SC, BI-LEVEL, WALL MOUNTED, 8 GPH.

PROVIDE WALL CARRIER. 115V, 4.5 A, MUST MEET A.D.A. CODE. EYEWASH - BRADLEY MODEL S19-220FW. WALL MOUNTED EYE WASH WITH PUSH HANDLE. EYE WASH PROVIDE FLOW CONTROL (SET TO 1.0 GPM).

FINISHED FLOOR CLEANOUT, WADE MODEL # 6000-TY.

WALL CLEANOUT, WADE MODEL # 8590 TAPPED PLUG WITH 8480R.

WALL HYDRANT TO BE WOODFORD MODEL B65 WITH BOX, 3/4" STRAIGHT INLET CONNECTION, ANTI-SIPHON, FREEZELESS. INSTANTANEOUS WATER HEATER - LAVADVANTAGE MODEL SPEX4208T EE, 208V. 1ø, 20A, 4.1KW,

0.2GPM ACTIVATION, POINT-OF-USE MICROPROCESSOR TEMPERATURE CONTROL. NO MIXING VALVE

REQUIRED. SET TO 90°F. INSTANTANEOUS WATER HEATER - LAVADVANTAGE MODEL SPEX4208T, 208V. 10, 20A, 4.1KW, 0.2GPM ACTIVATION, POINT-OF-USE MICROPROCESSOR TEMPERATURE CONTROL. NO MIXING VALVE

GENERAL NOTES:

1. FIXTURES SHALL BE AS SHOWN OR EQUAL. 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. ALL FIXTURES SHALL BE ROUGHED IN PER MANUFACTURER CUT SHEET TO MAINTAIN UNIFORMITY.

ARCHITECT

M. TODD ALBRITTON

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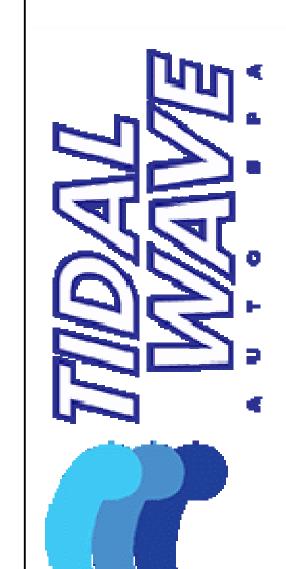


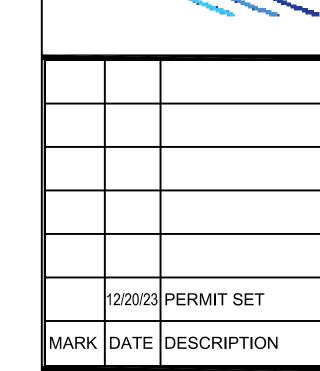
NEW TIDAL WAVE AUTO SPA

> US 401 ROLESVILLE,

OWNER: **TIDAL WAVE AUTO SPA**

EAST THOMPSON STREET THOMASTON GEORGIA 30286





SHEET TITLE

PLUMBING NOTES

PROJECT DATE: 12/20/2023

PROJECT NUMBER: 2023-0208 DRAWN BY: GMF

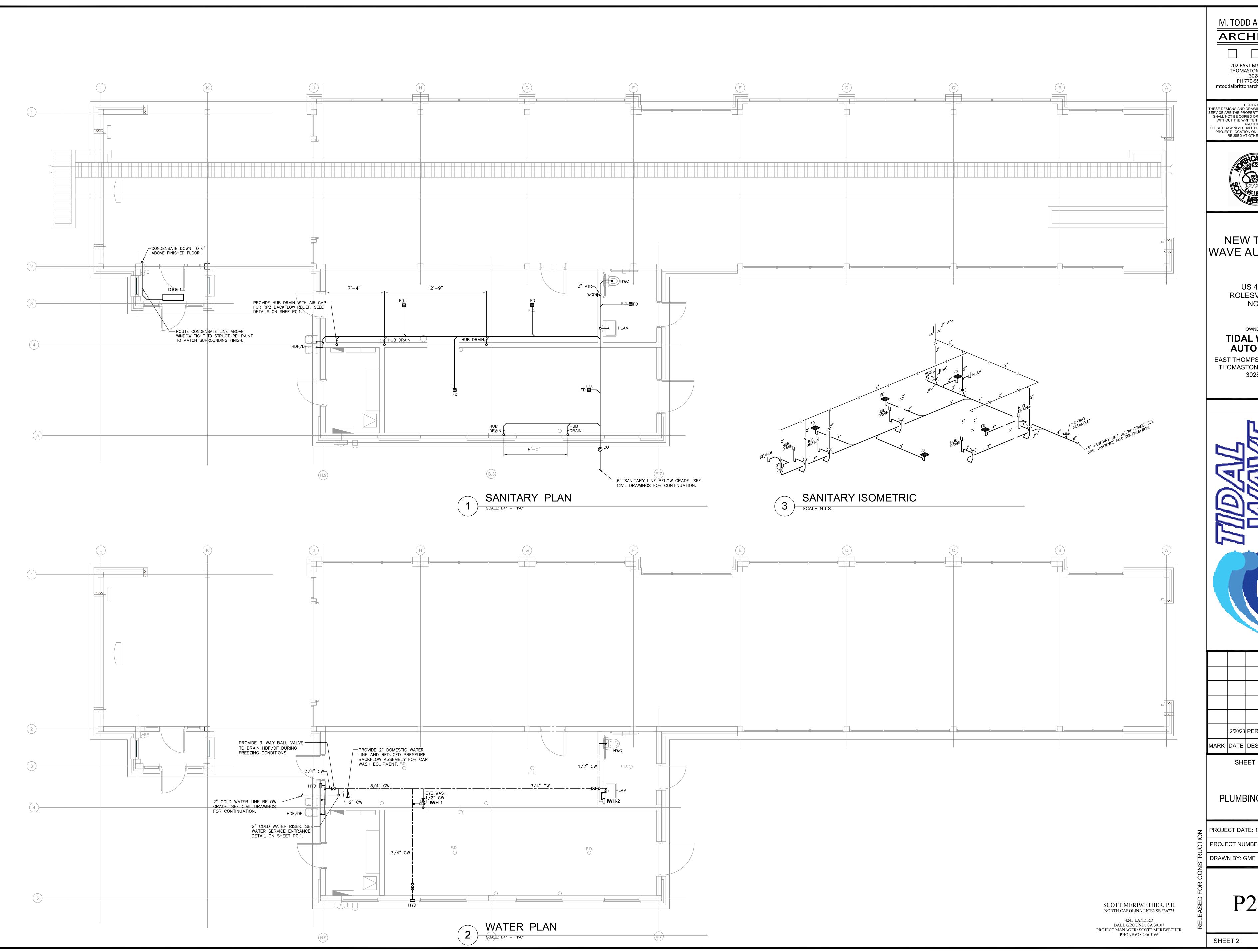
NORTH CAROLINA LICENSE #36775 4245 LAND RD BALL GROUND, GA 30107 PROJECT MANAGER: SCOTT MERIWETHER

PHONE 678.246.5166

SCOTT MERIWETHER, P.E.

SHEET 1

OF 2



M. TODD ALBRITTON ARCHITECT

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NEW TIDAL WAVE AUTO SPA

US 401 ROLESVILLE,

TIDAL WAVE AUTO SPA EAST THOMPSON STREET THOMASTON GEORGIA 30286



12/20/23 PERMIT SET MARK DATE DESCRIPTION

SHEET TITLE

PLUMBING PLANS

PROJECT DATE: 12/20/2023 PROJECT NUMBER: 2023-0208

P2.1

OF 2

SHEET 2

COMcheck Software Version 4.1.5.5 Interior Lighting Compliance Certificate

Project Information

Energy Code:	2015 IECC

Project Title: Tidal Wave Rolesville
Project Type: New Construction

Construction Site: Owner/Agent: Designer/Contractor:

US 401 Rolesville, NC

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.	(C X D)
1-Car Wash (Workshop)				
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 Propos	ed 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

Project Title: Tidal Wave Rolesville Report date: 12/20/23

Data filename: L:\Promus Dropbox\Promus Projects\2023\2023-0208 Tidal Wave Auto Spa (Rolesville, GA) SHJ\ Page 1 of 11

COM*check* **Software Version 4.1.5.5 Mechanical Compliance Certificate**

Project I	nformation			
Energy Coo Project Title Location: Climate Zor Project Typ	e: ne:	2015 IECC Tidal Wave Rolesville Rolesville, North Carolina 4a New Construction		
Constructio US 401 Rolesville		Owner/Agent:	Designer/Contra	actor:
Credits: 1.0	al Efficiency Package(s) 0 Required 1.0 Proposed I Lighting Power, 1.0 credit			
Mechani	cal Systems List			
Quantity	System Type & Description	1		
1	Cooling Mode: Capacity = 9 kBtu	HSPF, Required Efficiency = 8.20 I		
Mechani	cal Compliance Statemen	nt		
specificati designed t	ons, and other calculations su	ubmitted with this permit appli ements in COM <i>check</i> Version 4	d in this document is consistent ication. The proposed mechanic 4.1.5.5 and to comply with any	cal systems have been
Name - Tit	le	Signature		Date

Project Title: Tidal Wave Rolesville Report date: 12/20/23

Data filename: L:\Promus Dropbox\Promus Projects\2023\2023-0208 Tidal Wave Auto Spa (Rolesville, GA) SHJ\ Page 2 of 11

COMcheck Software Version 4.1.5.5 Inspection Checklist Energy Code: 2015 JECC

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] ¹	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.	□Complies □Does Not □Not Observable □Not Applicable	
C103.2 [PR4] ¹	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.	□Complies □Does Not □Not Observable □Not Applicable	
C406 [PR9] ¹	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the additional energy efficiency package options.	□Complies □Does Not □Not Observable □Not Applicable	

Additional Comments/Assumptions:

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

Project Title: Tidal Wave Rolesville Report date: 12/20/23

Data filename: L:\Promus Dropbox\Promus Projects\2023\2023-0208 Tidal Wave Auto Spa (Rolesville, GA) SHJ\ Page 3 of 11

Section # & Req.ID	Footing / Foundation Inspection	Complies?	Comments/Assumptions
C403.2.4. 5, C403.2.4. 6 [FO9] ³	future connection to controls. Freeze	□Complies □Does Not □Not Observable □Not Applicable	

Additional Comments/Assumptions:

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

Project Title: Tidal Wave Rolesville Report date: 12/20/23 Data filename: L:\Promus Dropbox\Promus Projects\2023\2023-0208 Tidal Wave Auto Spa (Rolesville, GA) SHJ\ Page Calcs\COMcheck\TWAS Rolesville.cck 4 of 11

Section # & Req.ID	Plumbing Rough-In Inspection	Complies?	Comments/Assumptions
C404.5, C404.5.1, C404.5.2 [PL6] ³	Heated water supply piping conforms to pipe length and volume requirements. Refer to section details.	□Complies □Does Not □Not Observable □Not Applicable	
C404.6.3 [PL7] ³	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.	□Complies □Does Not □Not Observable □Not Applicable	
C404.7 [PL8] ³	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 $104^{\circ}F$.	□Complies □Does Not □Not Observable □Not Applicable	

Additional Comments/Assumptions:

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

Project Title: Tidal Wave Rolesville Report date: 12/20/23

Data filename: L:\Promus Dropbox\Promus Projects\2023\2023-0208 Tidal Wave Auto Spa (Rolesville, GA) SHJ\ Page 5 of 11

Section # & Req.ID	Mechanical Rough-In Inspection	Complies?	Comments/Assumptions
C402.2.6 [ME41] ³	inculation > - R-3 5	\square Does Not	
		□Not Observable □Not Applicable	
C403.2.12 .1 [ME65] ³	conditions do not exceed allowable fan system motor nameplate hp or fan system bhp.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	See the Mechanical Systems list for values.
.3	67. The total efficiency of the fan at the design point of operation <= 15% of maximum total efficiency of the	□Complies □Does Not □Not Observable □Not Applicable	
C403.2.13 [ME71] ²	use only radiant heat.	□Complies □Does Not □Not Observable □Not Applicable	
C403.2.3 [ME55] ²		□Complies □Does Not □Not Observable □Not Applicable	See the Mechanical Systems list for values.
C403.2.6. 1 [ME59] ¹	emand control ventilation provided or spaces >500 ft2 and >25 eople/1000 ft2 occupant density and erved by systems with air side conomizer, auto modulating outside ir damper control, or design airflow 3,000 cfm.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C403.2.6. 2 [ME115] ³		□Complies □Does Not □Not Observable □Not Applicable	
C403.2.7 [ME57] ¹	systems meeting Table C403.2.7(1) and C403.2.7(2).	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C403.2.8 [ME116] ³	replacement air and conditioned supply air limitations, and satisfy hood rating requirements and maximum	□Complies □Does Not □Not Observable □Not Applicable	
C403.2.9 [ME60] ²	Where ducts or plenums are installed in or under a slab, verification may need to occur during Foundation	□Complies □Does Not □Not Observable □Not Applicable	
C403.2.9 [ME10] ²	static pressure and location.	□Complies □Does Not □Not Observable □Not Applicable	
C403.2.9. 1.3 [ME11] ³	column requires air leakage testing.	□Complies □Does Not □Not Observable □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] ³	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.	□Complies □Does Not □Not Observable □Not Applicable	
C403.4.4. 6 [ME110] ³	Multiple zone VAV systems with DDC of individual zone boxes have static pressure setpoint reset controls.	□Complies □Does Not □Not Observable □Not Applicable	See the Mechanical Systems list for values.
C408.2.2. 1 [ME53] ³	Air outlets and zone terminal devices have means for air balancing.	□Complies □Does Not □Not Observable □Not Applicable	
C403.5, C403.5.1, C403.5.2 [ME123] ³	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	□Complies □Does Not □Not Observable □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] ¹	50%.	□Complies □Does Not □Not Observable □Not Applicable	
C405.2.1 [EL18] ¹	required spaces.	□Complies □Does Not □Not Observable □Not Applicable	
C405.2.1, C405.2.2. 3 [EL23] ²	manual controls readily accessible and visible to occupants.	□Complies □Does Not □Not Observable □Not Applicable	
C405.2.2. 1 [EL22] ²	building lighting installed in all buildings.	□Complies □Does Not □Not Observable □Not Applicable	
C405.2.3 [EL16] ²	individual controls that control the lights independent of general area lighting	□Complies □Does Not □Not Observable □Not Applicable	
C405.2.3, C405.2.3. 1, C405.2.3. 2 [EL20] ¹	equipped with required lighting controls.	□Complies □Does Not □Not Observable □Not Applicable	
C405.2.3, C405.2.3. 1, C405.2.3. 3 [EL21] ¹	under skylights and rooftop monitors are equipped with required lighting controls.	□Complies □Does Not □Not Observable □Not Applicable	
C405.2.4 [EL4] ¹	specific uses installed per approved lighting plans.	□Complies □Does Not □Not Observable □Not Applicable	
C405.2.4 [EL8] ¹	allowed for special functions per the approved lighting plans and is automatically controlled and	□Complies □Does Not □Not Observable □Not Applicable	
C405.3 [EL6] ¹	face.	□Complies □Does Not □Not Observable □Not Applicable	

Additional Comments/Assumptions:

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

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Section					
# & Req.ID	Final Inspection	Complies?	Comments/Assumptions		
C303.3, C408.2.5.	Furnished O&M instructions for systems and equipment to the	☐Complies ☐Does Not			
2 [FI17] ³	building owner or designated representative.	□Not Observable □Not Applicable			
C303.3, C408.2.5.	5. systems within 90 days of system	□Complies □Does Not			
[FI8] ³	acceptance.	□Not Observable □Not Applicable			
C403.2.2 [FI27] ³	HVAC systems and equipment capacity does not exceed calculated loads.	□Complies □Does Not □Not Observable □Not Applicable			
1	controlled by a thermostat control.	□Complies □Does Not			
[FI47] ³	Minimum one humidity control device per installed humidification/dehumidification system.	□Not Observable □Not Applicable			
1.1	Heat pump controls prevent supplemental electric resistance heat	□Complies □Does Not			
[FI42] ³	from coming on when not needed.	□Not Observable □Not Applicable			
1.2	Thermostatic controls have a 5 °F deadband.	□Complies □Does Not			
	[FI38] ³	□Not Observable □Not Applicable			
C403.2.4. 1.3 [FI20] ³	Temperature controls have setpoint overlap restrictions.	□Complies □Does Not □			
		□Not Observable □Not Applicable			
C403.2.4. 2 [FI39] ³		□Complies □Does Not			
		□Not Observable □Not Applicable			
C403.2.4. 2.1, C403.2.4.		□Complies □Does Not			
2.2 [FI40] ³	2.2 backup	□Not Observable □Not Applicable			
C405.4.1 [FI18] ¹	Interior installed lamp and fixture lighting power is consistent with what	□Complies □Does Not	See the Interior Lighting fixture schedule for values.		
	is shown on the approved lighting plans, demonstrating proposed watts are less than or equal to allowed watts.	□Not Observable □Not Applicable			
C408.2.1 [FI28] ¹	registered design professional or	□Complies □Does Not			
	approved agency.	□Not Observable □Not Applicable			
C408.2.3.	HVAC equipment has been tested to ensure proper operation.	□Complies □Does Not			
[FI31] ¹	and proper operation.	□Not Observable □Not Applicable			
1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)					

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Section # & Req.ID	Final Inspection	Complies?	Comments/Assumptions
C408.2.3.	tested to ensure proper operation, [Fl10] ¹ calibration and adjustment of controls.	□Complies □Does Not	
[FIIO] ¹		□Not Observable □Not Applicable	
	Preliminary commissioning report completed and certified by registered	□Complies □Does Not	
		□Not Observable □Not Applicable	
C408.2.5. Furnished HVAC as-built drawings submitted within 90 days of system	□Complies □Does Not		
[FI7]	[FI7] ³ acceptance.	□Not Observable □Not Applicable	
1		□Complies □Does Not	
[FI16] ³ of system acceptance.	or system acceptance.	□Not Observable □Not Applicable	
C408.2.5. 3 [FI43] ¹	An air and/or hydronic system balancing report is provided for HVAC systems.	□Complies □Does Not	
		□Not Observable □Not Applicable	
4	building owner within 90 days of receipt of certificate of occupancy.	□Complies □Does Not	
		□Not Observable □Not Applicable	
C408.3 [FI33] ¹	ensure proper calibration, adjustment, programming, and operation.	□Complies □Does Not	
		□Not Observable □Not Applicable	

Additional Comments/Assumptions:

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

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