

1

2

3

4

5

D

C

B

A

Section # & Req.ID	Final Inspection	Complies?	Comments/Assumptions
C403.2.4.2.3 [F141] ¹	Systems include optimum start controls.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C403.2.4.2.3 [F141] ¹	Systems include optimum start controls.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C405.5.1 [F119] ¹	Exterior lighting power is consistent with what is shown on the approved lighting plans, demonstrating proposed watts are less than or equal to allowed watts.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	See the Exterior Lighting fixture schedule for values.
C408.2.1 [F128] ¹	Commissioning plan developed by registered design professional or approved agency.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C408.2.3.1 [F131] ¹	HVAC equipment has been tested to ensure proper operation.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C408.2.3.2 [F110] ¹	HVAC control systems have been tested to ensure proper operation, calibration and adjustment of controls.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C408.2.3.3 [F132] ¹	Economizers have been tested to ensure proper operation.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C408.2.4 [F129] ¹	Preliminary commissioning report completed and certified by registered design professional or approved agency.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C408.2.5.1 [F17] ¹	Furnished HVAC as-built drawings submitted within 90 days of system acceptance.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C408.2.5.3 [F143] ¹	An air and/or hydronic system balancing report is provided for HVAC systems.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C408.2.5.4 [F130] ¹	Final commissioning report due to building owner within 90 days of receipt of certificate of occupancy.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
Additional Comments/Assumptions:			

1 High Impact (Tier 1)

2 Medium Impact (Tier 2)

3 Low Impact (Tier 3)

Project Title: Benson, NC Shell
Data filename: O:\2021\2021379\01_Benson, NC (STB)\COMcheck_Benson, NC.cck
Report date: 07/01/21
Page 15 of 16

Section # & Req.ID	Final Inspection	Complies?	Comments/Assumptions
C303.3. C408.2.5.3 [F18] ¹	Furnished O&M manuals for HVAC systems within 90 days of system acceptance.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C402.5.3 [F151] ¹	Where open combustion air ducts provide combustion air to open combustion fuel burning appliances, the appliances and combustion air opening are located outside the building thermal envelope or enclosed in a room, isolated from inside the thermal envelope. Such rooms are sealed and insulated.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C402.5.6 [F137] ¹	Weatherseals installed on all loading dock cargo doors.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C402.5.8 [F126] ¹	Recessed luminaires in thermal envelope to limit infiltration and be IC rated and labeled. Seal between interior finish and luminaire housing.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C403.2.2 [F127] ¹	HVAC systems and equipment capacity does not exceed calculated loads.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C403.2.4.1 [F147] ¹	Heating and cooling to each zone is controlled by a thermostat control. Minimum one humidity control device per installed humidification/dehumidification system.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C403.2.4.1 [F147] ¹	Heating and cooling to each zone is controlled by a thermostat control. Minimum one humidity control device per installed humidification/dehumidification system.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C403.2.4.1.2 [F138] ¹	Thermostatic controls have a 5 °F deadband.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C403.2.4.1.3 [F120] ¹	Temperature controls have setpoint overlap restrictions.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C403.2.4.2 [F139] ¹	Each zone equipped with setback controls using automatic time clock or programmable control system.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C403.2.4.2.1, C403.2.4.2.2 [F140] ¹	Automatic Controls: Setback to 55°F (heat) and 55°F (cool); 7-day clock; 2-hour occupant override, 10-hour backup	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.

1 High Impact (Tier 1)

2 Medium Impact (Tier 2)

3 Low Impact (Tier 3)

Project Title: Benson, NC Shell
Data filename: O:\2021\2021379\01_Benson, NC (STB)\COMcheck_Benson, NC.cck
Report date: 07/01/21
Page 14 of 16

Section # & Req.ID	Insulation Inspection	Complies?	Comments/Assumptions
C303.1 [IN3] ¹	Roof insulation installed per manufacturer's instructions. Blown or poured loose-fill insulation is installed only where the roof slope is <= 3 in 12.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C303.1 [IN10] ²	Building envelope insulation is labeled with R-value or insulation certificate providing R-value and other relevant data.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C303.2 [IN7] ¹	Above-grade wall insulation installed per manufacturer's instructions.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C303.2.1 [IN14] ¹	Exterior insulation is protected from damage with a protective material. Verification for exposed foundation insulation may need to occur during Foundation Inspection.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C402.2.1 [IN17] ¹	Insulation intended to meet the roof insulation requirements cannot be installed on top of a suspended ceiling. Mark this requirement compliant if insulation is installed accordingly.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C104 [IN6] ¹	Installed above-grade wall insulation type and R-value consistent with insulation specifications reported in plans and COMcheck reports.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	See the Envelope Assemblies table for values.
C402.2.6 [IN18] ¹	Radiant panels and associated components, designed for heat transfer from the panel surfaces to the occupants or indoor space are insulated with a minimum of R-3.5.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C402.3 [IN5] ¹	High-albedo roofs satisfy one of the following: 3-year-aged solar reflectance >= 0.55 and thermal emittance >= 0.75 or 3-year-aged solar reflectance index >= 64.0.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C104 [IN2] ¹	Installed roof insulation type and R-value consistent with insulation specifications reported in plans and COMcheck reports. For some ceiling systems, verification may need to occur during Framing Inspection.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	See the Envelope Assemblies table for values.
C402.5.1.1 [IN1] ¹	All sources of air leakage in the building thermal envelope are sealed, caulked, gasketed, weather stripped or wrapped with moisture vapor-permeable wrapping material to minimize air leakage.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
Additional Comments/Assumptions:			

1 High Impact (Tier 1)

2 Medium Impact (Tier 2)

3 Low Impact (Tier 3)

Project Title: Benson, NC Shell
Data filename: O:\2021\2021379\01_Benson, NC (STB)\COMcheck_Benson, NC.cck
Report date: 07/01/21
Page 13 of 16

GPD Engineering and Architecture
Professional Corporation - 52715

520 S. MAIN ST., SUITE 2531
AKRON, OH 44311
PHONE: 330.572.2100
FAX: 330.572.2101

Copyright GPD Engineering and Architecture Professional Corporation 2020

DESCRIPTION

DATE

REV.

10433

12/03/2021

MARK S. SALOPEK
REGISTERED ARCHITECT
10433
NORTH CAROLINA
AKRON, OH

12/03/2021

BENSON SHELL
12321 NC-210
BENSON, NC 27504

COMcheck

PERMIT

DATE

BID

PROJECT MANAGER

DESIGNER

AK

DB

JOB NO.

2021379.01

G0004c

GENERAL
CONDITIONS

SECTION 014200 - REFERENCES

PART 1 - GENERAL

1.1 INDUSTRY STANDARDS

- A. APPLICABILITY OF STANDARDS: UNLESS THE CONTRACT DOCUMENTS INCLUDE MORE STRINGENT REQUIREMENTS, APPLICABLE CONSTRUCTION INDUSTRY STANDARDS HAVE THE SAME FORCE AND EFFECT AS IF BOUND OR COPIED DIRECTLY INTO THE CONTRACT DOCUMENTS TO THE EXTENT REFERENCED. SUCH STANDARDS ARE MADE A PART OF THE CONTRACT DOCUMENTS BY REFERENCE.
- B. PUBLICATION DATES: COMPLY WITH STANDARDS IN EFFECT AS OF DATE OF THE CONTRACT DOCUMENTS UNLESS OTHERWISE INDICATED.
- C. COPIES OF STANDARDS: EACH ENTITY ENGAGED IN CONSTRUCTION ON PROJECT SHOULD BE FAMILIAR WITH INDUSTRY STANDARDS APPLICABLE TO ITS CONSTRUCTION ACTIVITY. COPIES OF APPLICABLE STANDARDS ARE NOT BOUND WITH THE CONTRACT DOCUMENTS.
1. WHERE COPIES OF STANDARDS ARE NEEDED TO PERFORM A REQUIRED CONSTRUCTION ACTIVITY, OBTAIN COPIES DIRECTLY FROM PUBLICATION SOURCE.

1.2 ABBREVIATIONS AND ACRONYMS

- A. INDUSTRY ORGANIZATIONS: WHERE ABBREVIATIONS AND ACRONYMS ARE USED IN SPECIFICATIONS OR OTHER CONTRACT DOCUMENTS, THEY SHALL MEAN THE RECOGNIZED NAME OF THE ENTITIES IN THE FOLLOWING LIST.

ACI	AMERICAN CONCRETE INSTITUTE
AHA	AMERICAN HARDBOARD ASSOCIATION
ATC	AMERICAN INSTITUTE OF TIMBER CONSTRUCTION
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE
APA	APA - THE ENGINEERED WOOD ASSOCIATION
ASHRAE	AMERICAN SOCIETY OF HEATING, REFRIGERATING AND AIR-CONDITIONING ENGINEERS
ASTM	ASTM INTERNATIONAL (AMERICAN SOCIETY FOR TESTING AND MATERIALS INTERNATIONAL)
AWI	ARCHITECTURAL WOODWORK INSTITUTE
AWPA	AMERICAN WOOD PROTECTION ASSOCIATION (FORMERLY: AMERICAN WOOD PRESERVERS' ASSOCIATION)
CRI	CARPET AND RUG INSTITUTE (THE)
CRRC	COOL ROOF RATING COUNCIL
CSA	CANADIAN STANDARDS ASSOCIATION
CSA	CSA INTERNATIONAL (FORMERLY: IAS - INTERNATIONAL APPROVAL SERVICES)
CSI	CONSTRUCTION SPECIFICATIONS INSTITUTE (THE)
ETL SEMCO	INTERTEK ETL SEMCO (FORMERLY: ITS - INTERTEK TESTING SERVICE NA)
FM GLOBAL	FM GLOBAL (FORMERLY: FMG - FM GLOBAL)
FSC	FOREST STEWARDSHIP COUNCIL
HPVA	HARDWOOD PLYWOOD & VENEER ASSOCIATION
ISO	INTERNATIONAL ORGANIZATION FOR STANDARDIZATION
ITS	INTERTEK TESTING SERVICE NA (NOW ETL SEMCO)
MFMA	MAPLE FLOORING MANUFACTURERS ASSOCIATION, INC.
MPI	MASTER PAINTERS INSTITUTE
NFPA	NFPA (NATIONAL FIRE PROTECTION ASSOCIATION)
NOFMA	NOFMA: THE WOOD FLOORING MANUFACTURERS ASSOCIATION (FORMERLY: NATIONAL OAK FLOORING MANUFACTURERS ASSOCIATION)
OPL	INTERIAK
SDI	STEEL DOOR INSTITUTE
SMACNA	SHEET METAL AND AIR CONDITIONING CONTRACTORS' NATIONAL ASSOCIATION
UL	UNDERWRITERS LABORATORIES INC.
USGBC	U.S. GREEN BUILDING COUNCIL
WCLIB	WEST COAST LUMBER INSPECTION BUREAU
WCI	WOODWORK INSTITUTE (FORMERLY: WIC - WOODWORK INSTITUTE OF CALIFORNIA)

- B. CODE AGENCIES: WHERE ABBREVIATIONS AND ACRONYMS ARE USED IN SPECIFICATIONS OR OTHER CONTRACT DOCUMENTS, THEY SHALL MEAN THE RECOGNIZED NAME OF THE ENTITIES IN THE FOLLOWING LIST.

DIN	DEUTSCHES INSTITUT FUR NORMUNG E.V.
ICC	INTERNATIONAL CODE COUNCIL
ICC-ES	ICC EVALUATION SERVICE, INC.

- C. FEDERAL GOVERNMENT AGENCIES: WHERE ABBREVIATIONS AND ACRONYMS ARE USED IN SPECIFICATIONS OR OTHER CONTRACT DOCUMENTS, THEY SHALL MEAN THE RECOGNIZED NAME OF THE ENTITIES IN THE FOLLOWING LIST.

EPA	ENVIRONMENTAL PROTECTION AGENCY
-----	---------------------------------

- D. STANDARDS AND REGULATIONS: WHERE ABBREVIATIONS AND ACRONYMS ARE USED IN SPECIFICATIONS OR OTHER CONTRACT DOCUMENTS, THEY SHALL MEAN THE RECOGNIZED NAME OF THE STANDARDS AND REGULATIONS IN THE FOLLOWING LIST.

ADAAG	AMERICANS WITH DISABILITIES ACT (ADA) ARCHITECTURAL BARRIERS ACT (ABA) ACCESSIBILITY GUIDELINES FOR BUILDINGS AND FACILITIES AVAILABLE FROM U.S. ACCESS BOARD
CFR	CODE OF FEDERAL REGULATIONS AVAILABLE FROM GOVERNMENT PRINTING OFFICE

- E. STATE GOVERNMENT AGENCIES: WHERE ABBREVIATIONS AND ACRONYMS ARE USED IN SPECIFICATIONS OR OTHER CONTRACT DOCUMENTS, THEY SHALL MEAN THE RECOGNIZED NAME OF THE ENTITIES IN THE FOLLOWING LIST.

CDHS	CALIFORNIA DEPARTMENT OF HEALTH SERVICES
CDPH	CALIFORNIA DEPARTMENT OF PUBLIC HEALTH, INDOOR AIR QUALITY SECTION

END OF SECTION 014200

GENERAL CONDITIONS

SECTION 017419 - CONSTRUCTION WASTE MANAGEMENT AND DISPOSAL

1.1 SUMMARY

- A. SALVAGING NON-HAZARDOUS DEMOLITION AND CONSTRUCTION WASTE.
- B. RECYCLING NON-HAZARDOUS DEMOLITION AND CONSTRUCTION WASTE.
- C. DISPOSING OF NON-HAZARDOUS DEMOLITION AND CONSTRUCTION WASTE.

1.2 DEFINITIONS

- A. CONSTRUCTION WASTE: BUILDING AND SITE IMPROVEMENT MATERIALS AND OTHER SOLID WASTE RESULTING FROM CONSTRUCTION, REMODELING, RENOVATION, OR REPAIR OPERATIONS. CONSTRUCTION WASTE INCLUDES PACKAGING.
- B. DEMOLITION WASTE: BUILDING AND SITE IMPROVEMENT MATERIALS RESULTING FROM DEMOLITION OR SELECTIVE DEMOLITION OPERATIONS.
- C. DISPOSAL: REMOVAL OFF-SITE OF DEMOLITION AND CONSTRUCTION WASTE AND SUBSEQUENT SALE, RECYCLING, REUSE, OR DEPOSIT IN LANDFILL OR INCINERATOR ACCEPTABLE TO AUTHORITIES HAVING JURISDICTION.
- D. RECYCLE: RECOVERY OF DEMOLITION OR CONSTRUCTION WASTE FOR SUBSEQUENT PROCESSING IN PREPARATION FOR REUSE.
- E. SALVAGE: RECOVERY OF DEMOLITION OR CONSTRUCTION WASTE AND SUBSEQUENT SALE OR REUSE IN ANOTHER FACILITY.
- F. SALVAGE AND REUSE: RECOVERY OF DEMOLITION OR CONSTRUCTION WASTE AND SUBSEQUENT INCORPORATION INTO THE WORK.

END OF SECTION 017419

CONCRETE

SECTION 033500 - CONCRETE FINISHING

1.1 SUBMITTALS

- A. QUALIFICATION DATA: FOR QUALIFIED APPLICATOR.
- B. MATERIAL CERTIFICATES.

1.2 FLOOR AND SLAB TREATMENTS

- A. VOC CONTENT: FLOOR TREATMENTS SHALL HAVE A VOC CONTENT OF 200 G/L OR LESS WHEN CALCULATED ACCORDING TO 40 CFR 59, SUBPART D (EPA METHOD 24).
- B. UNPIGMENTED MINERAL DRY-SHAKE FLOOR HARDENER: FACTORY-PACKAGED DRY COMBINATION OF PORTLAND CEMENT, GRADED QUARTZ AGGREGATE, AND PLASTICIZING ADMIXTURE.
- C. PIGMENTED MINERAL DRY-SHAKE FLOOR HARDENER: FACTORY-PACKAGED, DRY COMBINATION OF PORTLAND CEMENT, GRADED QUARTZ AGGREGATE, COLOR PIGMENTS, AND PLASTICIZING ADMIXTURE. USE COLOR PIGMENTS THAT ARE FINELY GROUND, NONFADING MINERAL OXIDES INTERGROUND WITH CEMENT.

1.3 LIQUID FLOOR TREATMENTS

- A. VOC CONTENT: LIQUID FLOOR TREATMENTS SHALL HAVE A VOC CONTENT OF 200 G/L OR LESS WHEN CALCULATED ACCORDING TO 40 CFR 59, SUBPART D (EPA METHOD 24).
- B. PENETRATING LIQUID FLOOR TREATMENT: CLEAR, CHEMICALLY REACTIVE, WATERBORNE SOLUTION OF INORGANIC SILICATE OR SILICONATE MATERIALS AND PROPRIETARY COMPONENTS; ODORLESS; THAT PENETRATES, HARDENS, AND DENSIFIES CONCRETE SURFACES.
- C. PENETRATING LIQUID FLOOR TREATMENTS FOR POLISHED CONCRETE FINISH: CLEAR, WATERBORNE SOLUTION OF INORGANIC SILICATE OR SILICONATE MATERIALS AND PROPRIETARY COMPONENTS; ODORLESS; THAT PENETRATES, HARDENS, AND IS SUITABLE FOR POLISHED CONCRETE SURFACES.

1.4 INSTALLATION

- A. DRY-SHAKE FLOOR HARDENER FINISH: AFTER INITIAL FLOATING, APPLY DRY-SHAKE FLOOR HARDENER TO SURFACES.
- B. PENETRATING LIQUID FLOOR TREATMENT: PREPARE, APPLY, AND FINISH PENETRATING LIQUID FLOOR TREATMENT ACCORDING TO MANUFACTURER'S WRITTEN INSTRUCTIONS.
- C. SEALING COAT: UNIFORMLY APPLY A CONTINUOUS SEALING COAT OF CURING AND SEALING COMPOUND TO HARDENED CONCRETE BY POWER SPRAY OR ROLLER ACCORDING TO MANUFACTURER'S WRITTEN INSTRUCTIONS.
- D. PROTECT LIQUID FLOOR TREATMENT FROM DAMAGE AND WEAR DURING THE REMAINDER OF CONSTRUCTION PERIOD. USE PROTECTIVE METHODS AND MATERIALS, INCLUDING TEMPORARY COVERING, RECOMMENDED IN WRITING BY LIQUID FLOOR TREATMENTS INSTALLER.

END OF SECTION 033500

MASONRY

SECTION 042200 - CONCRETE MASONRY UNITS

1.1 SUMMARY

- A. MASONRY CONSTRUCTION:
1. SINGLE-WYTHER MASONRY.

1.2 SUBMITTALS

- A. PRODUCT DATA: FOR EACH TYPE OF PRODUCT INDICATED.
- B. SHOP DRAWINGS: FOR THE FOLLOWING:
1. REINFORCING STEEL: DETAIL BENDING AND PLACEMENT OF UNIT MASONRY REINFORCING BARS. COMPLY WITH ACI 315, "DETAILS AND REINFORCED WALLS.
2. FABRICATED FLASHING: DETAIL CORNER UNITS, END-DAM UNITS, AND OTHER SPECIAL APPLICATIONS.
- C. SAMPLES FOR VERIFICATION: FOR EACH TYPE AND COLOR OF THE FOLLOWING:
1. EXPOSED CONCRETE MASONRY UNITS.
2. MIX DESIGNS: FOR EACH TYPE OF MORTAR AND GROUT. INCLUDE DESCRIPTION OF TYPE AND PROPORTIONS OF INGREDIENTS.
1. INCLUDE TEST REPORTS, PER ASTM C 780, FOR MORTAR MIXES REQUIRED TO COMPLY WITH PROPERTY SPECIFICATION.
2. INCLUDE TEST REPORTS, PER ASTM C 1019, FOR GROUT MIXES REQUIRED TO COMPLY WITH COMPRESSIVE STRENGTH REQUIREMENT.

1.3 MATERIALS

- A. CONCRETE MASONRY UNITS (CMUS):
1. UNITS MADE WITH INTEGRAL WATER REPELLENT FOR EXPOSED UNITS AND WHERE INDICATED.
2. CONCRETE MASONRY UNITS: MEDIUM WEIGHT UNLESS INDICATED OTHERWISE.
- B. MASONRY LINTELS: PREFABRICATED OR BUILT-IN-PLACE CMU LINTELS.
- C. REINFORCING STEEL: UNCOATED STEEL REINFORCING BARS.
- D. REINFORCING BAR POSITIONERS: WIRE UNITS DESIGNED TO FIT INTO MORTAR BED JOINTS SPANNING MASONRY UNIT CELLS AND TO HOLD REINFORCING BARS IN CENTER OF CELLS.
- E. MASONRY JOINT REINFORCEMENT:
1. EXTERIOR WALLS: HOT-DIP GALVANIZED, CARBON STEEL.
- F. EMBEDDED FLASHING:
1. ALL FLASHING: STAINLESS STEEL
2. SINGLE-WYTHER CMU FLASHING SYSTEM: HIGH-DENSITY POLYETHYLENE CELL FLASHING PANS AND INTERLOCKING CMU WEB COVERS.
- G. MASONRY-CELL INSULATION: LOOSE-GRANULAR PERLITE.
- H. MORTAR: PORTLAND CEMENT-LIME MORTAR UNLESS OTHERWISE INDICATED.

1.4 INSTALLATION

- A. MATCH EXISTING MASONRY COURSING, BONDING, COLOR, AND TEXTURE.
- B. BOND PATTERN: RUNNING BOND.
- C. CLEAN MASONRY WASTE RECYCLED AS FILL MATERIAL.

1.5 FIELD QUALITY CONTROL

- A. TESTING AGENCY: OWNER ENGAGED
- B. INSPECTIONS: SPECIAL INSPECTIONS ACCORDING TO LEVEL B IN TMS 402/ACI 530/ASCE 5.

END OF SECTION 042200

METALS

SECTION 055000 - METAL FABRICATIONS

1.1 SUMMARY

- A. STEEL FRAMING AND SUPPORTS FOR MECHANICAL AND ELECTRICAL EQUIPMENT.
- B. STEEL FRAMING AND SUPPORTS FOR APPLICATIONS WHERE FRAMING AND SUPPORTS ARE NOT SPECIFIED IN OTHER SECTIONS.
- C. SHELF ANGLES.
- D. METAL BOLLARDS.

1.2 SUBMITTALS

- A. PRODUCT DATA: FOR THE FOLLOWING:
1. PAINT PRODUCTS.
2. GROUT.
3. ALL PREFABRICATED PRODUCTS.
- B. SHOP DRAWINGS: SHOW FABRICATION AND INSTALLATION DETAILS FOR METAL FABRICATIONS.
1. INCLUDE PLANS, ELEVATIONS, SECTIONS, AND DETAILS OF METAL FABRICATIONS AND THEIR CONNECTIONS. SHOW ANCHORAGE AND ACCESSORY ITEMS.
2. PROVIDE TEMPLATES FOR ANCHORS AND BOLTS SPECIFIED FOR INSTALLATION UNDER OTHER SECTIONS.
- C. WELDING CERTIFICATES.

1.3 PRODUCTS

- A. MATERIALS: STEEL PLATES, SHAPES, AND BARS, STEEL PIPE, SLOTTED CHANNEL FRAMING.
1. LOW-EMITTING PRIMER: METAL PRIMER SHALL HAVE A VOC CONTENT OF 200 G/L OR LESS WHEN CALCULATED ACCORDING TO 40 CFR 59, SUBPART D (EPA METHOD 24).
- B. MISCELLANEOUS FRAMING AND SUPPORTS:
1. STEEL FRAMING AND SUPPORTS FOR MECHANICAL AND ELECTRICAL EQUIPMENT, APPLICATIONS WHERE FRAMING AND SUPPORTS ARE NOT SPECIFIED IN OTHER SECTIONS:
2. GALVANIZE WHERE INDICATED.
3. PRIME WITH ZINC-RICH PRIMER WHERE INDICATED.
- a. ZINC-RICH PRIMER SHALL HAVE A VOC CONTENT OF 340 G/L OR LESS WHEN CALCULATED ACCORDING TO 40 CFR 59, SUBPART D (EPA METHOD 24).
- C. LOOSE STEEL LINTELS, GALVANIZED AT EXTERIOR WALLS.
- D. SHELF ANGLES: GALVANIZED.
- E. STEEL WELD PLATES AND ANGLES NOT SPECIFIED IN OTHER SECTIONS, FOR CASTING INTO CONCRETE.
- F. METAL BOLLARDS: SCHEDULE 40 STEEL PIPE.

END OF SECTION 055000

WOODS AND PLASTICS

SECTION 061000 - ROUGH CARPENTRY

1.1 MATERIALS

- A. WOOD-PRESERVATIVE-TREATED LUMBER:
1. PRESERVATIVE TREATMENT: AWPA U1; USE CATEGORY UC2, BUT USE CATEGORY UC3B FOR EXTERIOR CONSTRUCTION AND USE CATEGORY UC4A FOR ITEMS IN CONTACT WITH THE GROUND.
- a. PRESERVATIVE CHEMICALS: CONTAINING NO ARSENIC OR CHROMIUM. DO NOT USE INORGANIC BORON (SBX) FOR SILL PLATES.
2. APPLICATION: ITEMS INDICATED AND AS FOLLOWS:
- a. ITEMS IN CONTACT WITH ROOFING OR WATERPROOFING.
- b. ITEMS IN CONTACT WITH CONCRETE OR MASONRY.
- c. FRAMING LESS THAN 18 INCHES (460 MM) ABOVE GROUND IN CRAWLSPACES.
- d. FLOOR PLATES INSTALLED OVER CONCRETE SLABS-ON-GRADE.
- B. DIMENSION LUMBER FRAMING:
1. EXPOSED FRAMING: HAND-SELECTED FOR APPEARANCE AND FREEDOM FROM DECAY, HONEYCOMB, KNOT-HOLES, SHAKE, SPLITS, TORN GRAIN AND WANE.
- a. APPLICATION: EXPOSED EXTERIOR AND INTERIOR FRAMING INDICATED TO RECEIVE A STAINED OR NATURAL FINISH.
- b. SPECIES AND GRADE: AS INDICATED FOR LOAD-BEARING CONSTRUCTION.
- C. ENGINEERED WOOD PRODUCTS, GENERAL: PRODUCTS LOCATED WITHIN THE BUILDING WEATHER-PROOFING SYSTEM SHALL CONTAIN NO ADDED UREA FORMALDEHYDE.
- D. SHEAR WALL PANELS, GENERAL: PRODUCTS LOCATED WITHIN THE BUILDING WEATHER-PROOFING SYSTEM SHALL CONTAIN NO ADDED UREA FORMALDEHYDE.
- E. FASTENERS: HOT-DIP GALVANIZED STEEL WHERE EXPOSED TO WEATHER, IN GROUND CONTACT, IN CONTACT WITH TREATED WOOD, OR IN AREA OF HIGH RELATIVE HUMIDITY.
- F. METAL FRAMING ANCHORS:
1. HOT-DIP GALVANIZED STEEL FOR INTERIOR LOCATIONS.
2. HOT-DIP, HEAVY-GALVANIZED STEEL FOR TREATED LUMBER AND WHERE INDICATED.
3. STAINLESS STEEL FOR EXTERIOR AND WHERE INDICATED.
- G. MISCELLANEOUS MATERIALS:
1. SILL-SEALER GASKETS: [GLASS-FIBER INSULATION] [NEOPRENE FOAM].
2. ADHESIVES SHALL HAVE A VOC CONTENT OF 70 G/L OR LESS WHEN CALCULATED ACCORDING TO 40 CFR 59, SUBPART D (EPA METHOD 24).

END OF SECTION 061000

WOODS AND PLASTICS

SECTION 061053 - MISCELLANEOUS ROUGH CARPENTRY

1.1 MATERIALS

- A. WOOD-PRESERVATIVE-TREATED MATERIALS:
1. PRESERVATIVE TREATMENT: AWPA U1; USE CATEGORY UC2.
- a. PRESERVATIVE CHEMICALS: CONTAINING NO ARSENIC OR CHROMIUM. DO NOT USE INORGANIC BORON (SBX) FOR SILL PLATES.
2. APPLICATION: ITEMS INDICATED AND THE FOLLOWING:
- a. ITEMS IN CONTACT WITH ROOFING OR WATERPROOFING.
- b. ITEMS IN CONTACT WITH CONCRETE OR MASONRY.
- c. FRAMING LESS THAN 18 INCHES (460 MM) ABOVE GROUND IN CRAWLSPACES.
- d. FLOOR PLATES INSTALLED OVER CONCRETE SLABS-ON-GRADE.
- B. FIRE-RETARDANT-TREATED MATERIALS:
1. EXTERIOR TYPE FOR EXTERIOR LOCATIONS AND WHERE INDICATED.
2. INTERIOR TYPE A UNLESS OTHERWISE INDICATED.
3. APPLICATION: ITEMS INDICATED AND THE FOLLOWING:
- a. FRAMING FOR RAISED PLATFORMS.
- b. CONCEALED BLOCKING.
- c. ROOF FRAMING AND BLOCKING.
- d. ITEMS IN CONTACT WITH ROOFING.
- e. PLYWOOD BACKING PANELS.
- C. FRAMING:
1. NON-LOAD-BEARING INTERIOR PARTITIONS: CONSTRUCTION OR NO. 2 GRADE.
- D. MISCELLANEOUS LUMBER:
1. DIMENSION LUMBER: CONSTRUCTION OR NO. 2 GRADE.
2. UTILITY SHELVING: 19 PERCENT MAXIMUM MOISTURE CONTENT.
3. CONCEALED BOARDS: 19 PERCENT MAXIMUM MOISTURE CONTENT.
- E. PLYWOOD BACKING PANELS: EXPOSURE 1, C-D PLUGGED.
- F. FASTENERS: HOT-DIP GALVANIZED STEEL WHERE EXPOSED TO WEATHER, IN GROUND CONTACT, IN CONTACT WITH TREATED WOOD, OR IN AREA OF HIGH RELATIVE HUMIDITY.
- G. METAL FRAMING ANCHORS:
1. METAL: GALVANIZED STEEL; HOT-DIP HEAVY GALVANIZED STEEL FOR WOOD-PRESERVATIVE-TREATED LUMBER AND WHERE INDICATED.
- H. ADHESIVES: ADHESIVES SHALL HAVE A VOC CONTENT OF 70 G/L OR LESS WHEN CALCULATED ACCORDING TO 40 CFR 59, SUBPART D (EPA METHOD 24).

1.2 INSTALLATION

- A. FURRING TO RECEIVE PLYWOOD OR HARDBOARD PANELING: 1-BY-3-INCH NOMINAL-SIZE (19-BY-63-MM ACTUAL-SIZE) FURRING AT 24 INCHES (610 MM) O.C.
- B. FURRING TO RECEIVE GYPSUM BOARD: 1-BY-2-INCH NOMINAL-SIZE (19-BY-38-MM ACTUAL-SIZE) FURRING AT 16 INCHES (406 MM) O.C.

END OF SECTION 061053

WOODS AND PLASTICS

SECTION 061600 - SHEATHING

1.1 MATERIALS

- A. WOOD PRODUCTS, GENERAL:
1. WOOD PANEL PRODUCTS LOCATED WITHIN THE BUILDING WEATHER-PROOFING SYSTEM SHALL CONTAIN NO ADDED UREA FORMALDEHYDE.
- B. PRESERVATIVE-TREATED PLYWOOD:
1. PRESERVATIVE TREATMENT: AWPA U1; USE CATEGORY UC2, BUT USE CATEGORY UC3B FOR EXTERIOR CONSTRUCTION AND USE CATEGORY UC4A FOR ITEMS IN CONTACT WITH THE GROUND.
2. PRESERVATIVE CHEMICALS: CONTAINING NO ARSENIC OR CHROMIUM.
3. APPLICATION: TREAT PLYWOOD IN CONTACT WITH MASONRY OR CONCRETE OR USED WITH ROOFING, FLASHING, VAPOR BARRIERS, AND WATERPROOFING.
- C. FIRE-RETARDANT-TREATED PLYWOOD:
1. EXTERIOR TYPE FOR EXTERIOR LOCATIONS AND WHERE INDICATED.
2. INTERIOR TYPE A, HIGH TEMPERATURE (HT) FOR ROOF SHEATHING AND WHERE INDICATED.
3. INTERIOR TYPE A, UNLESS OTHERWISE INDICATED.
4. APPLICATION: TREAT THE FOLLOWING:
- a. ROOF SHEATHING AT FIRE AND PARTY WALLS.
- b. WALL SHEATHING AT FIRE AND PARTY WALLS.
- c. ROOF SHEATHING.
- d. SUBFLOORING AND UNDERLAYMENT FOR RAISED PLATFORMS.
- D. FASTENERS: HOT-DIP GALVANIZED STEEL WHERE EXPOSED TO WEATHER, IN GROUND CONTACT, IN CONTACT WITH TREATED WOOD, OR IN AREA OF HIGH RELATIVE HUMIDITY.
- E. MISCELLANEOUS MATERIALS:
1. ADHESIVES SHALL HAVE A VOC CONTENT OF 50 G/L OR LESS WHEN CALCULATED ACCORDING TO 40 CFR 59, SUBPART D (EPA METHOD 24).

1.2 INSTALLATION

- A. WOOD STRUCTURAL PANEL:
1. COMBINATION SUBFLOOR-UNDERLAYMENT:
- a. GLUE AND NAIL TO WOOD FRAMING.
- b. SCREW TO COLD-FORMED METAL FRAMING.
2. SUBFLOORING:
- a. GLUE AND NAIL TO WOOD FRAMING.
- b. SCREW TO COLD-FORMED METAL FRAMING.
3. SHEATHING:
- a. NAIL TO WOOD FRAMING.
- b. SCREW TO COLD-FORMED METAL FRAMING.
4. UNDERLAYMENT:
- a. NAIL TO SUBFLOORING.
- B. GYPSUM SHEATHING:
1. SCREW TO WOOD FRAMING.
2. SCREW TO COLD-FORMED METAL FRAMING.
- C. FIBERBOARD SHEATHING:
1. NAIL TO WOOD FRAMING.
- D. PARTICLEBOARD UNDERLAYMENT:
1. GLUE AND NAIL TO SUBFLOORING.
- E. HARDBOARD UNDERLAYMENT:
1. NAIL TO SUBFLOORING.

END OF SECTION 061600

THERMAL AND MOISTURE PROTECTION

SECTION 071113 - BITUMINOUS DAMPPROOFING

1.1 MATERIALS

- A. COLD-APPLIED, EMULSIFIED ASPHALT: VOC OF 250 G/L OR LESS.

1.2 INSTALLATION

- A. COLD-APPLIED, EMULSIFIED-ASPHALT DAMPPROOFING:
1. CONCRETE FOUNDATIONS AND PARGED MASONRY FOUNDATION WALLS: TWO BRUSH OR SPRAY COATS, ONE FIBERED BRUSH OR SPRAY COAT, OR ONE TROWEL COAT.
2. UNPARGED MASONRY FOUNDATION WALLS: PRIMER AND TWO BRUSH OR SPRAY COATS, PRIMER AND ONE FIBERED BRUSH OR SPRAY COAT, OR PRIMER AND ONE TROWEL COAT.
3. UNEXPOSED FACES OF CONCRETE RETAINING WALLS: ONE BRUSH OR SPRAY COAT.
4. UNEXPOSED FACES OF MASONRY RETAINING WALLS: PRIMER AND ONE BRUSH OR SPRAY COAT.
5. MASONRY BACKUP FOR BRICK VENEER ASSEMBLIES: PRIMER AND ONE BRUSH OR SPRAY COAT.
6. EXTERIOR FACE OF INNER WYTHER OF CAVITY WALLS: PRIMER AND ONE BRUSH OR SPRAY COAT.
7. INTERIOR FACE OF SINGLE-WYTHER EXTERIOR MASONRY WALLS: PRIMER AND ONE BRUSH OR SPRAY COAT.

END OF SECTION 071113

THERMAL AND MOISTURE PROTECTION

SECTION 071300 - WATERPROOFING

1.1 MATERIALS

- A. MODIFIED BITUMINOUS SHEET: MINIMUM 60-MIL (1.5-MM) NOMINAL THICKNESS.
- B. MODIFIED BITUMINOUS SHEET, FABRIC REINFORCED: MINIMUM 60-MIL (1.5-MM) NOMINAL THICKNESS.
- C. EPDM RUBBER SHEET WATERPROOFING: 60 MILS (1.5 MM) THICK, UNREINFORCED.
- D. BUTYL RUBBER SHEET WATERPROOFING: 60 MILS (1.5 MM) THICK, UNREINFORCED.
- E. AUXILIARY MATERIALS:
1. PRIMER: WATERBORNE.
2. METAL TERMINATION BARS: ALUMINUM.
3. PROTECTION COURSE: AS RECOMMENDED BY MANUFACTURER.
- F. MOLDED-SHEET DRAINAGE PANELS: MOLDED-PLASTIC DRAINAGE CORE WITH A WOVEN GEOTEXTILE FACING.
- G. HIGH-CAPACITY, MOLDED-SHEET COLLECTOR-PANEL SYSTEM: MOLDED-PLASTIC DRAINAGE CORE WITH A WOVEN GEOTEXTILE FACING; BY SAME MANUFACTURER AS MOLDED-SHEET DRAINAGE PANELS.
- H. INSULATION: EXTRUDED-POLYSTYRENE BOARD.
- I. INSULATION DRAINAGE PANELS: EXTRUDED-POLYSTYRENE BOARD, WITH GROOVED DRAINAGE CHANNELS; FOR WALL INSTALLATION.

1.2 INSTALLATION

- A. MODIFIED BITUMINOUS SHEET: ONE-PLY APPLICATION.
- B. RUBBER SHEET: FULLY ADHERED, CEMENT SPLICE SEAMS.

END OF SECTION 071300

THERMAL AND MOISTURE PROTECTION

SECTION 072100 - BUILDING INSULATION

1.1 SUMMARY

- A. APPLICATIONS:
1. PERIMETER INSULATION UNDER SLABS-ON-GRADE.
2. PERIMETER WALL INSULATION (SUPPORTING BACKFILL).
3. CONCEALED BUILDING INSULATION.
4. VAPOR RETARDERS.
5. SOUND ATTENUATION INSULATION.

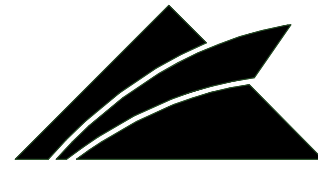
1.2 PERFORMANCE REQUIREMENTS

- A. PLENUM RATING: GLASS FIBER INSULATION RATED FOR RESISTANCE AGAINST EROSION AND MOLD GROWTH PER UL 181.

1.3 MATERIALS

- A. INSULATION:
1. ALL INSULATION MATERIALS LOCATED WITHIN THE WATERPROOF MEMBRANE MUST BE CERTIFIED AS LOW EMITTING. CERTIFICATION MUST BE BASED UPON THE CALIFORNIA DEPARTMENT OF HEALTH SERVICES STANDARD PRACTICE FOR THE TESTING OF VOLATILE ORGANIC EMISSIONS FROM VARIOUS SOURCES USING SMALL-SCALE ENVIRONMENTAL CHAMBERS, INCLUDING 2004 ADDENDA OR A JURISDICTIONALLY RECOGNIZED STANDARD USING EQUIVALENT TESTING METHODOLOGIES AND VOC THRESHOLDS.
- B. VAPOR RETARDERS: REINFORCED POLYETHYLENE.

END OF SECTION 072100



GPD Engineering and Architecture
Professional Corporation - 52715

520 S. MAIN ST., SUITE 2531
AKRON, OH 44311
PHONE: 330.572.2100
FAX: 330.572.2101

Copyright GPD Engineering and Architecture Professional Corporation 2020

DESCRIPTION	DATE	REV



12/03/2021
10433

BENSON SHELL 12321, NC 210 BENSON, NC 27504	SPECIFICATIONS
---	----------------

PERMIT	DATE
	12/03/2021
BID	
	-/-/-

PROJECT MANAGER	DESIGNER
AK	DB

JOB NO.
2021379.01

G0010

G0011

00011

ELECTRICAL

SECTION 262416 - PANELBOARDS

- 1.1 QUALITY ASSURANCE
- A. MANUFACTURER QUALIFICATIONS: ISO 9001 OR 9002 CERTIFIED.
- 1.2 PRODUCTS
- A. GENERAL REQUIREMENTS FOR PANELEBOARDS:
1. CONSTRUCTED TO WITHSTAND SEISMIC FORCES.
 2. ENCLOSURES: FLUSH MOUNTED.
 - a. FRONT: HINGED COVER WITH KEY LOCK.
 - b. OPTIONAL ENCLOSURE FEATURES: SKIRT FOR MOUNTED PANELEBOARDS.
 - c. DIRECTORY CARD.
 3. INCOMING MAINS: CONVERTIBLE BETWEEN TOP AND BOTTOM.
 4. PHASE, NEUTRAL, AND GROUND BUSES: TIN-PLATED ALUMINUM.
 5. CONDUCTOR CONNECTORS:
 - a. MATERIAL: TIN-PLATED ALUMINUM.
 - b. MAIN AND NEUTRAL LUGS: MECHANICAL TYPE.
 - c. FEED-THROUGH LUGS: MECHANICAL TYPE.
 6. PERCENTAGE OF FUTURE SPACE CAPACITY: FIVE PERCENT.
 7. SERVICE EQUIPMENT LABEL FOR PANELEBOARDS INCORPORATING ONE OR MORE MAIN SERVICE DISCONNECTING AND OVERCURRENT PROTECTIVE DEVICES.
- B. PANELEBOARD OR LOAD CENTER SHORT-CIRCUIT CURRENT RATING: FULLY RATED TO EXCEED SYMMETRICAL SHORT-CIRCUIT CURRENT AVAILABLE AT TERMINALS. LISTED SERVICE RATING SYSTEM MAY BE USED IF APPROVED BY EOR TO LIMIT FAULT TO BELOW 22K AIC FOR GFI BREAKERS.
1. MAINS: LUGS ONLY.
 2. BRANCH OVERCURRENT PROTECTIVE DEVICES FOR CIRCUIT-BREAKER FRAME SIZES LARGER THAN 125 A: BOLT-ON CIRCUIT BREAKERS.
- C. LIGHTING AND APPLIANCE BRANCH-CIRCUIT PANELEBOARDS:
1. MAINS: LUGS ONLY.
 2. BRANCH OVERCURRENT PROTECTIVE DEVICES: PLUG-IN CIRCUIT-BREAKER TYPE.
- D. DOORS: CONCEALED HINGE.
1. MAINS: LUGS ONLY.
 2. BRANCH CIRCUIT BREAKERS: PLUG-IN.
 3. DOORS: CONCEALED HINGE.
 4. CONDUCTOR CONNECTORS: MECHANICAL TYPE.
- E. DISCONNECTING AND OVERCURRENT PROTECTIVE DEVICES:
1. CIRCUIT BREAKERS: THERMAL-MAGNETIC TYPES.
 2. GFI CIRCUIT BREAKERS: RATED FOR PERSONNEL.
 3. AFCI CIRCUIT BREAKERS: AS REQUIRED BY CODE.
 4. OPTIONS AND TYPES AS NEEEDED.
- F. IDENTIFICATION:
1. PANELEBOARD LABELS: MANUFACTURER'S NAME AND TRADEMARK, VOLTAGE, AMPERAGE, NUMBER OF PHASES, ARC FLASH HAZARD, AND NUMBER OF POLES SHALL BE LOCATED ON THE INTERIOR OF THE PANELEBOARD DOOR.
 2. BREAKER LABELS: TYPE, SIZE, RATING, UL AND IEC CERTIFICATION STANDARDS, AND AIC RATING.
 3. CIRCUIT DIRECTORY: DIRECTORY CARD INSIDE PANELEBOARD DOOR, MOUNTED IN TRANSPARENT CARD HOLDER.
- G. ACCESSORIES:
1. ACCESSORY SET INCLUDING TOOLS.
 2. PORTABLE TEST SET: FOR TESTING FUNCTIONS OF SOLID-STATE TRIP DEVICES WITHOUT REMOVING FROM PANELEBOARD.

1.3 FIELD QUALITY CONTROL

A. TESTING: BY CONTRACTOR.

END OF SECTION 262416

ELECTRICAL

SECTION 262713 - ELECTRICITY METERING

- 1.1 EQUIPMENT FOR ELECTRICITY METERING BY UTILITY COMPANY
- A. UTILITY-COMPANY-COMPLIANT CURRENT-TRANSFORMER CABINETS: COMPLY WITH REQUIREMENTS OF ELECTRICAL-POWER UTILITY COMPANY.
- B. METER SOCKETS: COMPLY WITH REQUIREMENTS OF ELECTRICAL-POWER UTILITY COMPANY.

END OF SECTION 262713

ELECTRICAL

SECTION 262726 - WIRING DEVICES

- 1.1 PRODUCTS
 - A. RECEPTACLES, DUPLEX, 125 V, 20 A.
 1. STRAIGHT BLADE: CONVENIENCE AND ISOLATED GROUND.
 2. GFCI: FEED THROUGH.
 3. TWIST-LOCKING TYPE WITH ISOLATED-GROUND TERMINAL.
 - B. PENDANT CORD-CONNECTOR DEVICES WITH EXTERNAL CABLE GRIP
 - C. CORDS AND PLUG SETS: MATCH VOLTAGE AND CURRENT RATINGS AND NUMBER OF CONDUCTORS TO REQUIREMENTS OF EQUIPMENT BEING CONNECTED.
 - D. TOGGLE SWITCHES: 120/277 V, 20 A.
 1. PILOT-LIGHT SWITCHES.
 2. KEY-OPERATED SWITCHES.
 - E. WALL-BOX DIMMERS:
 1. MODULAR, FULL-WAVE, SOLID-STATE UNITS WITH SLIDER CONTROL.
 - a. INCANDESCENT: SOFT-APR OR OTHER QUIET SWITCH; EMURFI FILTER TO ELIMINATE INTERFERENCE.
 - b. FLOURESCENT: TRIM POTENTIOMETER FOR LOW-END DIMMING.
 - c. LED: COMPATIBLE WITH LED DRIVER OR LAMP.
 - F. WALL PLATES:
 1. MATERIAL FOR BAR: THERMOPLASTIC WITH COLOR PER STARBUCKS.
 2. MATERIAL FOR CUSTOMER AREAS: THERMOPLASTIC WITH COLOR OPTION PER STARBUCKS.
 - G. FINISHES:
 1. CONNECTED TO NORMAL POWER SYSTEM: CONFIRM COLOR WITH STARBUCKS REPRESENTATIVE.
 2. CONNECTED TO EMERGENCY POWER SYSTEM: RED.
 3. CONNECTED TO GROUND RECEPTACLES: AS SPECIFIED ABOVE, WITH ORANGE TRIANGLE ON FACE.

END OF SECTION 262726

ELECTRICAL

SECTION 262816 - ENCLOSED SWITCHES AND CIRCUIT BREAKERS

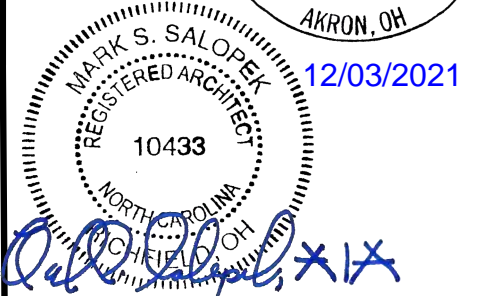
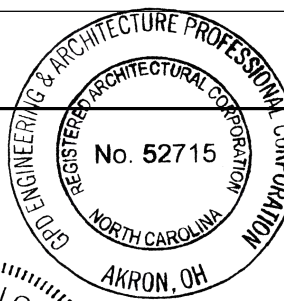
- # 11 PRODUCTS
- A. FUSIBLE SWITCHES:
 - 1. GENERAL DUTY, SINGLE THROW, [240-V] AC, 800 A AND SMALLER: UL 98 AND NEMA KS 1, TYPE GD.
 - 2. ACCESSORIES:
 - a. EQUIPMENT GROUND KIT.
 - b. NEUTRAL KIT.
 - c. ISOLATED GROUND KIT.
 - d. CLASS R FUSE KIT.
 - e. AUXILIARY CONTACT KIT.
 - f. HOOKSTICK HANDLE.
 - g. LUGS: MECHANICAL.
 - h. SERVICE-RATED SWITCHES.
 - i. ACCESSORY CONTROL POWER.
 - B. NONFUSIBLE SWITCHES:
 - 1. GENERAL DUTY, SINGLE THROW, [240-V] AC, 600 A AND SMALLER: UL 98 AND NEMA KS 1, TYPE GD.
 - 2. ACCESSORIES:
 - a. EQUIPMENT GROUND KIT.
 - b. NEUTRAL KIT.
 - c. ISOLATED GROUND KIT.
 - d. AUXILIARY CONTACT KIT.
 - e. HOOKSTICK HANDLE.
 - f. LUGS: MECHANICAL.
 - g. ACCESSORY CONTROL POWER.
 - C. MOLDED-CASE CIRCUIT BREAKERS:
 - 1. THERMAL-MAGNETIC TYPE.
 - 2. ADJUSTABLE INSTANTANEOUS-TRIP TYPE.
 - 3. ELECTRONIC-TRIP TYPE.
 - 4. CURRENT-LIMITING TYPE.
 - 5. INTEGRALLY FUSED TYPE.
 - 6. GFCI TYPE.
 - 7. GFCP TYPE.
 - 8. FEATURES AND ACCESSORIES:
 - a. LUGS: MECHANICAL.
 - b. TYPE SWD FOR FEEDING FLUORESCENT LIGHTING LOADS.
 - c. TYPE HID FOR FEEDING FLUORESCENT AND HIGH-INTENSITY DISCHARGE LIGHTING CIRCUITS.
 - d. GROUND-FAULT PROTECTION: INTEGRALLY MOUNTED, SELF-POWERED TYPE.
 - e. SHUNT TRIP.
 - f. UNDERVOLTAGE TRIP: 35 TO 75 PERCENT OF RATED VOLTAGE WITHOUT INTENTIONAL TIME DELAY.
 - g. AUXILIARY CONTACTS: TWO SPDT SWITCHES.
 - h. ALARM SWITCH: ONE NO CONTACT.
 - i. KEY INTERLOCK KIT.
 - j. ZONE-SELECTIVE INTERLOCKING: COMPLIANT WITH ELECTRONIC TRIP.
 - k. ELECTRICAL OPERATOR.
 - l. ACCESSORY CONTROL POWER.
 - D. MOLDED-CASE SWITCHES:
 - 1. MCCB WITH FIXED, HIGH-SET INSTANTANEOUS TRIP ONLY, AND SHORT-CIRCUIT WITHSTANDING RATING EQUAL TO EQUIVALENT BREAKER FRAME SIZE.
 - 2. INTERRUPTING RATING.
 - 3. FEATURES AND ACCESSORIES:
 - a. LUGS: MECHANICAL.
 - b. GROUND-FAULT PROTECTION: REMOTE-MOUNTED AND POWERED TYPE.
 - c. SHUNT TRIP.
 - d. UNDERVOLTAGE TRIP: 35 TO 75 PERCENT OF RATED VOLTAGE WITHOUT INTENTIONAL TIME DELAY.
 - e. AUXILIARY CONTACTS: TWO SPDT SWITCHES.
 - f. ALARM SWITCH: ONE NO CONTACT.
 - g. KEY INTERLOCK KIT.
 - h. ZONE-SELECTIVE INTERLOCKING: INTEGRAL WITH REMOTE GROUND-FAULT TRIP UNIT.
 - i. ELECTRICAL OPERATOR.
 - j. ACCESSORY CONTROL POWER.
 - E. ENCLOSURES:
 - 1. INDOOR, DRY AND CLEAN LOCATIONS: NEMA 250, TYPE 1.
 - 2. OUTDOOR LOCATIONS: NEMA 250, TYPE 3R.

- ## 1.2 FIELD QUALITY CONTROL
- ### A. TESTING: BY CONTRACTOR.

- ### 1.3 ADJUSTING
- #### A. SET FIELD-ADJUSTABLE CIRCUIT-BREAKER TRIP RANGES.

END OF SECTION 262816

REV.	DATE	DESCRIPTION



BENSON SHELL
12321 NC-210
BENSON, NC 27504

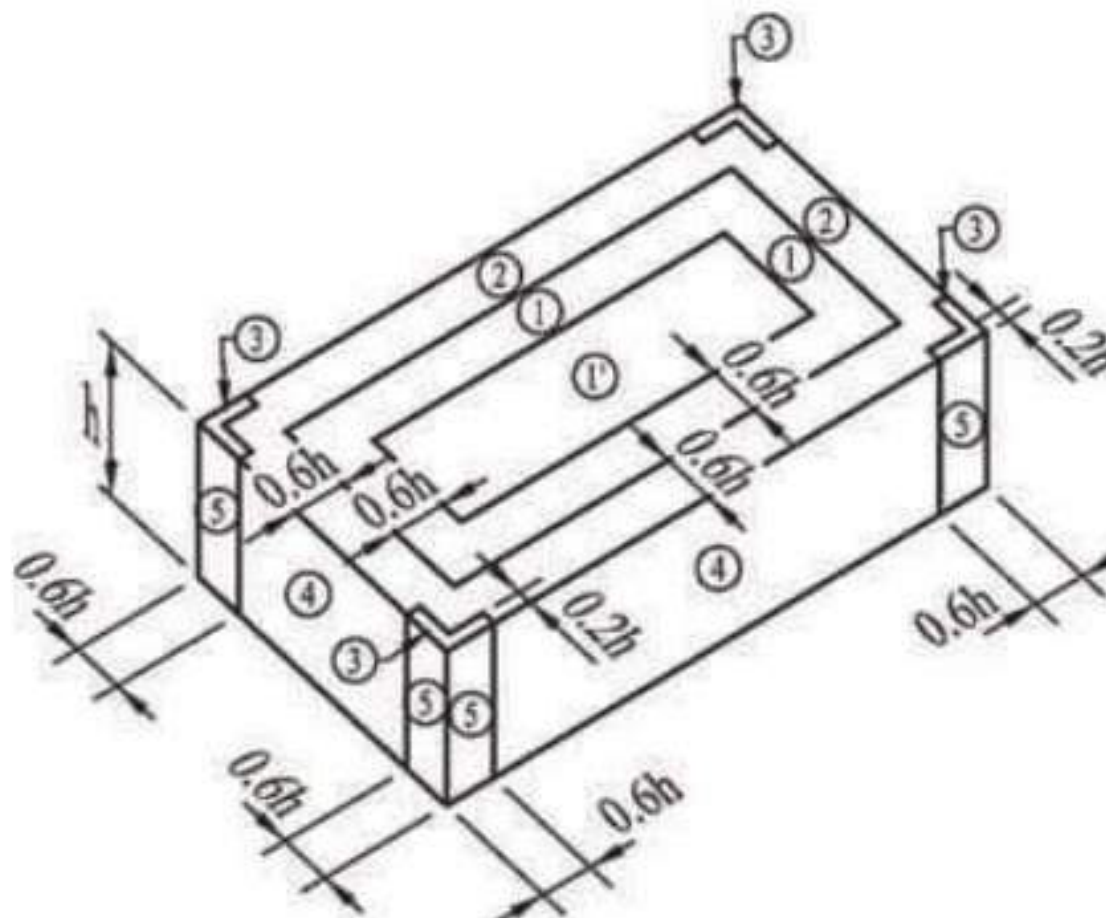
SPECIFICATIONS

	DATE
PERMIT	12/03/2021
BID	--/------


PROJECT MANAGER	DESIGNER
AK	DB

JOB NO.
2021379.01

G0014

	1	2	3	4	5																																																																																																								
D	<p>GENERAL PROVISIONS:</p> <p>TYPICAL DETAILS AND GENERAL NOTES APPLY TO ALL PARTS OF THE WORK EXCEPT WHERE SPECIFICALLY DETAILED OR UNLESS OTHERWISE NOTED.</p> <p>DRAWINGS ARE NOT TO BE SCALED.</p> <p>FOR DIMENSIONS NOT SHOWN, COORDINATE WITH ARCHITECTURAL DRAWINGS.</p> <p>THE CONTRACTOR SHALL CAREFULLY REVIEW THE DRAWINGS TO IDENTIFY THE SCOPE OF WORK REQUIRED, VISIT THE SITE TO RELATE THE SCOPE OF WORK TO EXISTING CONDITIONS, AND DETERMINE THE EXTENT OF WHICH THOSE CONDITIONS AND PHYSICAL SURROUNDINGS WILL IMPACT THE WORK.</p> <p>EXISTING CONDITIONS AS SHOWN ON THESE PLANS ARE FOR REFERENCE ONLY. THE CONTRACTOR IS REQUIRED TO FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO CONSTRUCTION.</p> <p>THE CONTRACTOR SHALL ASSUME THE MOST STRINGENT REQUIREMENTS APPLY IN CASE OF CONFLICT AMONG SPECIFICATIONS, STANDARDS, CODES AND DRAWINGS. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT/ENGINEER IMMEDIATELY TO RESOLVE THE CONFLICT.</p> <p>ANY DEVIATION, MODIFICATION, OR SUBSTITUTION FROM THE BID SET OF STRUCTURAL DRAWINGS SHALL BE SUBMITTED TO THE ARCHITECT AND ENGINEER FOR REVIEW/APPROVAL PRIOR TO ITS USE OR INCLUSION ON THE SHOP DRAWINGS. WITHOUT SUCH PRIOR APPROVAL, DEVIATIONS, MODIFICATIONS, OR SUBSTITUTIONS WILL BE REJECTED. COSTS FOR DEMOLITION AND REWORK OF SUCH ITEMS WILL BE BORNE BY THE CONTRACTOR.</p> <p>THE STRUCTURE IS DESIGNED TO BE SELF-SUPPORTING AND STABLE AFTER THE BUILDING IS FULLY COMPLETED FOR IN-SERVICE LOADS ONLY. THE MEANS, METHODS, PROCEDURES, AND SEQUENCES OF CONSTRUCTION ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN ALL NECESSARY TEMPORARY SYSTEMS (SHORING, BRACING, GUYS, FALSEWORK, FORMWORK, SHEETING ETC.) TO ENSURE THE INTEGRITY OF THE STRUCTURE AT ALL STAGES OF CONSTRUCTION. ALL WORK SHALL BE PERFORMED WITHOUT DAMAGE TO ADJACENT EXISTING WORK. SHORING SYSTEMS SHALL BE DESIGNED, SIGNED, AND SEALED BY A PROFESSIONAL ENGINEER LICENSED IN THE JURISDICTION WHERE THE PROJECT IS LOCATED.</p> <p>THE CONTRACTOR IS RESPONSIBLE FOR SITE SAFETY. THE CONTRACTOR AND ALL SUBCONTRACTORS SHALL REVIEW THE STRUCTURAL CONTRACT DOCUMENTS AND SHALL NOTIFY THE STRUCTURAL ENGINEER OF ANY CONFLICTS BETWEEN THOSE DOCUMENTS AND ANY SAFETY REGULATIONS. SUCH REVIEW AND NOTIFICATION SHALL OCCUR PRIOR TO PRODUCTION OF SHOP DRAWINGS.</p> <p>THE CONTRACTOR SHALL PROTECT ALL WORK, MATERIALS, AND EQUIPMENT FROM DAMAGE AND SHALL PROVIDE PROPER STORAGE FACILITIES FOR MATERIALS AND EQUIPMENT DURING CONSTRUCTION.</p> <p>SITE VISITS PERFORMED BY THE ARCHITECT/ENGINEER DO NOT INCLUDE INSPECTIONS OF MEANS AND METHODS OF CONSTRUCTION PERFORMED BY THE CONTRACTOR.</p> <p>STRUCTURAL OBSERVATIONS PERFORMED BY THE ARCHITECT/ENGINEER DURING CONSTRUCTION ARE NOT THE CONTINUOUS AND SPECIAL INSPECTION SERVICES AND DO NOT WAIVE THE RESPONSIBILITY FOR THE INSPECTIONS REQUIRED OF THE BUILDING DEPARTMENT INSPECTOR OR THE TESTING AGENCY. ALSO, OBSERVATIONS DO NOT GUARANTEE THE CONTRACTOR'S PERFORMANCE AND SHALL NOT BE CONSIDERED AS SUPERVISION OF CONSTRUCTION.</p> <p>ELEVATED CONCRETE SLABS AND ROOF DECK HAVE BEEN DESIGNED ONLY FOR THE DESIGN LOADING CRITERIA AS INDICATED IN THE CONSTRUCTION DOCUMENTS. THE WEIGHT OF CONSTRUCTION MATERIALS AND EQUIPMENT ON THE STRUCTURE SHALL BE LIMITED TO THE DESIGN LOADING CRITERIA UNLESS APPROVED BY THE ENGINEER OF RECORD. ANY EQUIPMENT OR MATERIALS THAT EXCEED THE DESIGN LOADING WILL NOT BE PERMITTED WITHOUT AN ANALYSIS OF THE STRUCTURE BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF THE PROJECT. SUBMIT STAMPED CALCULATIONS TO ENGINEER FOR REVIEW. THE RESPONSIBILITY FOR THE ANALYSIS OF ANY ELEVATED SLABS IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.</p> <p>SHOP DRAWINGS:</p> <p>REFER TO THE PROJECT SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.</p> <p>REPRODUCTION OF THE STRUCTURAL DRAWINGS FOR USE IN PREPARATION OF SHOP DRAWINGS IS STRICTLY PROHIBITED WITHOUT THE WRITTEN CONSENT OF THE ENGINEER OF RECORD. SHOP DRAWINGS SUBMITTED WITH REPRODUCED STRUCTURAL DRAWINGS AND/OR DETAILS WITHOUT CONSENT WILL BE REJECTED.</p> <p>SUBMIT SHOP DRAWINGS 3 BUSINESS DAYS (MINIMUM) PRIOR TO DATE THAT RETURNED SHOP DRAWINGS ARE REQUIRED.</p> <p>SHOP DRAWINGS SHALL BEAR THE CONTRACTOR'S STAMP OF APPROVAL, WHICH SHALL CONSTITUTE CERTIFICATION THAT ALL FIELD MEASUREMENTS, CONSTRUCTION CRITERIA, AND MATERIALS SPECIFIED IN THE CONTRACT DOCUMENTS HAVE BEEN VERIFIED AND EACH DRAWING HAS BEEN CHECKED FOR COMPLETENESS, COORDINATION, AND COMPLIANCE WITH THE CONTRACT DOCUMENTS.</p> <p>CONTRACTOR SHALL REFER TO ARCHITECTURAL, MECHANICAL, PLUMBING, ELECTRICAL, LAUNDRY AND FOOD SERVICE DRAWINGS FOR SIZE AND LOCATIONS OF OPENINGS, SLEEVES, CONCRETE HOUSEKEEPING PADS, INSERTS, AND DEPRESSIONS DURING SHOP DRAWING PREPARATION.</p> <p>WHERE A DELEGATED DESIGN IS INDICATED ON THE DRAWINGS, THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS AND CALCULATIONS FOR EACH ITEM, COMPONENT, AND CONNECTION NOT SPECIFICALLY DETAILED ON THE STRUCTURAL DRAWINGS. SHOP DRAWINGS AND DESIGN CALCULATIONS SHALL BE SIGNED AND SEALED BY THE CONTRACTOR'S LICENSED ENGINEER (IN THE PROJECT'S JURISDICTION). DRAWINGS AND CALCULATIONS SHALL SHOW LOCATIONS AND MAGNITUDES OF LOADS IMPOSED ON THE STRUCTURE. THE ENGINEER OF RECORD RESERVES THE RIGHT TO MODIFY LOAD PATH SUGGESTED BY THE DELEGATED DESIGN ENGINEER.</p> <p>DELEGATED DESIGN:</p> <p>CONTRACTOR IS RESPONSIBLE FOR DESIGN OF THE FOLLOWING ITEMS INCLUDING DESIGN OF THE CONNECTIONS OF EACH ITEM TO THE SUPPORTING STRUCTURAL FRAMING:</p> <p>PRE-ENGINEERED WOOD TRUSSES</p> <p>THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR EACH ITEM LISTED ABOVE. REFER TO THE "SHOP DRAWING" SECTION UNDER THE GENERAL NOTES FOR ADDITIONAL INFORMATION.</p> <p>INFORMATION SHOWN IN THE CONTRACT DOCUMENTS (E.G., DEPTHS, GAUGES, SPACING, PLYS, ETC.) ARE CONSIDERED MINIMUMS AND ARE SCHEMATIC IN NATURE. INCREASED GAUGE/PLYS AND/OR DECREASED SPACINGS MAY BE REQUIRED AND SHALL BE COMPLETED AT NO CHARGE TO THE OWNER.</p>	<p>DESIGN LOADINGS:</p> <p>GOVERNING BUILDING CODE: 2018 NORTH CAROLINA STATE BUILDING CODE (BASED ON IBC 2015)</p> <p>GRAVITY LOADS:</p> <p>ROOF DEAD LOADS 20 PSF (SUPERIMPOSED + ACTUAL MAT'L WEIGHTS)</p> <p>ROOF LIVE LOADS 20 PSF</p> <p>ROOF SNOW LOADS:</p> <p>GROUND SNOW LOAD (Pg) 15 PSF</p> <p>EXPOSURE FACTOR (Ce) 1.0</p> <p>IMPORTANCE FACTOR (I) 1.0</p> <p>THERMAL FACTOR (Ct) 1.0</p> <p>FLAT-ROOF SNOW LOAD (Pf): 11 PSF</p> <p>MINIMUM SNOW LOAD (Pm): 15 PSF</p> <p>LATERAL LOAD DESIGN DATA:</p> <p>WIND DESIGN DATA (ASCE 7-16):</p> <p>BASIC WIND SPEED 117 MPH</p> <p>RISK CATEGORY II</p> <p>EXPOSURE CATEGORY B</p> <p>DESIGN PRESSURES</p> <p>COMPONENTS AND CLADDING (h = 30')</p> <table><tr><th>TRIB. AREA</th><th>ROOF ZONE 1</th><th>ROOF ZONE 1'</th><th>ROOF ZONE 2</th></tr><tr><td>0-10 SF</td><td>+16, -34 PSF</td><td>+16, -20 PSF</td><td>+16, -45 PSF</td></tr><tr><td>>10-20 SF</td><td>+16, -33 PSF</td><td>+16, -20 PSF</td><td>+16, -43 PSF</td></tr><tr><td>>20-50 SF</td><td>+16, -29 PSF</td><td>+16, -20 PSF</td><td>+16, -39 PSF</td></tr><tr><td>>50-100 SF</td><td>+16, -27 PSF</td><td>+16, -20 PSF</td><td>+16, -36 PSF</td></tr></table> <table><tr><th>TRIB. AREA</th><th>ROOF ZONE 3</th><th>WALL ZONE 4</th><th>WALL ZONE 5</th></tr><tr><td>0-10 SF</td><td>+16, -62 PSF</td><td>+20, -24 PSF</td><td>+16, -29 PSF</td></tr><tr><td>>10-20 SF</td><td>+16, -56 PSF</td><td>+19, -23 PSF</td><td>+16, -27 PSF</td></tr><tr><td>>20-50 SF</td><td>+16, -49 PSF</td><td>+18, -21 PSF</td><td>+16, -24 PSF</td></tr><tr><td>>50-100 SF</td><td>+16, -43 PSF</td><td>+17, -20 PSF</td><td>+16, -23 PSF</td></tr></table> <p>PLUS & MINUS SIGNS SIGNIFY PRESSURES TOWARDS AND AWAY FROM SURFACES RESPECTIVELY.</p> 	TRIB. AREA	ROOF ZONE 1	ROOF ZONE 1'	ROOF ZONE 2	0-10 SF	+16, -34 PSF	+16, -20 PSF	+16, -45 PSF	>10-20 SF	+16, -33 PSF	+16, -20 PSF	+16, -43 PSF	>20-50 SF	+16, -29 PSF	+16, -20 PSF	+16, -39 PSF	>50-100 SF	+16, -27 PSF	+16, -20 PSF	+16, -36 PSF	TRIB. AREA	ROOF ZONE 3	WALL ZONE 4	WALL ZONE 5	0-10 SF	+16, -62 PSF	+20, -24 PSF	+16, -29 PSF	>10-20 SF	+16, -56 PSF	+19, -23 PSF	+16, -27 PSF	>20-50 SF	+16, -49 PSF	+18, -21 PSF	+16, -24 PSF	>50-100 SF	+16, -43 PSF	+17, -20 PSF	+16, -23 PSF	<p>EARTHWORK/SUBSURFACE INVESTIGATION (CONT.):</p> <p>ENGINEERED FILL:</p> <p>ENGINEERED FILL SHALL BE WELL-GRADED MATERIAL FREE FROM DEBRIS, ORGANIC MATERIAL, FROZEN MATERIALS, BRICK, LIME, CONCRETE AND OTHER MATERIALS THAT WOULD PREVENT ADEQUATE PERFORMANCE. FILL SHALL CONFORM TO ASTM D2487 SOIL CLASSIFICATION GROUPS GW, GP, GM, SW, SP OR SM.</p> <p>UNLESS OTHERWISE NOTED, THE PROPOSED ENGINEERED FILL MATERIALS ARE TO BE PLACED IN LIFTS NOT EXCEEDING EIGHT (8) INCHES IN LOOSE MEASURED THICKNESS. EACH LIFT IS TO BE COMPACTED A MINIMUM OF 98% MAXIMUM DENSITY BY ASTM D698.</p> <p>THE EARTHWORK PROGRAM SHALL BE CONDUCTED UNDER THE SUPERVISION OF A SOILS LABORATORY.</p> <p>THE IN-PLACE DENSITIES ACHIEVED ARE TO BE VERIFIED BY TEST.</p> <p>BACKFILL:</p> <p>BACKFILL OPERATIONS SHALL BE PERFORMED IN ACCORDANCE WITH THE SPECIFICATIONS AND GEOTECHNICAL SUBSURFACE INVESTIGATION REPORT.</p> <p>BACKFILL MATERIAL SHALL BE APPROVED BY THE GEOTECHNICAL ENGINEER PRIOR TO INSTALLATION.</p> <p>PRIOR TO BACKFILL OPERATIONS AGAINST FOUNDATION WALLS, THE WALLS SHALL BE PROPERLY SHORED TO RESIST THE LATERAL FORCE OF THE BACKFILL AND ASSOCIATED EQUIPMENT. LATERAL SHORES MAY BE ELIMINATED WHERE THE FLOOR SLAB CONNECTING TO THE WALLS HAS ACHIEVED THEIR DESIGN STRENGTH.</p> <p>WHERE FINAL GRADES ARE APPROXIMATELY EQUAL ON BOTH SIDES OF A WALL, BACKFILL EQUALLY ON BOTH SIDES OF THE WALL IN LIFTS TO MAINTAIN LEVEL ELEVATIONS TO WITHIN 1'-0" AT ANY GIVEN TIME.</p> <p>FOUNDATION SYSTEMS:</p> <p>GENERAL:</p> <p>THE CONTRACTOR SHALL STUDY THE GEOTECHNICAL INVESTIGATION REPORT (REFER TO THE "EARTHWORK/SUBSURFACE INVESTIGATION" SECTION UNDER THE GENERAL NOTES) AND VISUALLY INSPECT THE EXISTING CONDITIONS PRIOR TO THE START OF ANY WORK. THE CONTRACTOR SHALL VERIFY ANY EXISTING FIELD CONDITION THAT MAY AFFECT THE INSTALLATION OF THE FOUNDATION SYSTEM.</p> <p>THE CONTRACTOR SHALL EXERCISE GREAT CARE DURING EXCAVATION. UNDERGROUND UTILITY LOCATIONS, IF SHOWN, ARE APPROXIMATE. THE CONTRACTOR SHALL PREDETERMINE UTILITY LOCATIONS AND NOTIFY THE ENGINEER IMMEDIATELY IF DEVIATION FROM PLANS EXIST. THE CONTRACTOR IS RESPONSIBLE FOR THE SAFE SUPPORT OF UTILITIES ACROSS EXCAVATIONS.</p> <p>SHEETING, SHORING, AND DEWATERING IS THE RESPONSIBILITY OF THE CONTRACTOR.</p> <p>A SOILS TESTING LABORATORY SHALL BE RETAINED BY THE OWNER TO PROVIDE CONSTRUCTION REVIEW TO ENSURE CONFORMANCE WITH THE CONSTRUCTION DOCUMENTS DURING THE EXCAVATIONS, BACKFILL, AND FOUNDATION PHASES OF THE PROJECT.</p> <p>CONTINUOUS WATERSTOPS SHALL BE PROVIDED AT ALL HORIZONTAL AND VERTICAL CONSTRUCTION JOINTS IN ALL ELEVATOR PITS AND BASEMENT WALLS.</p> <p>BOTTOM OF ALL EXTERIOR FOOTINGS/GRADE BEAMS SHALL BEAR A MINIMUM OF 3'-6" BELOW ADJACENT FINAL GRADE FOR FROST PROTECTION.</p> <p>SPREAD/TRENCH FOOTINGS:</p> <p>BEARING ELEVATIONS ARE ESTIMATED FROM SOIL BORING DATA INDICATED IN THE GEOTECHNICAL SUBSURFACE INVESTIGATION REPORT. DETERMINATION OF FINAL BEARING ELEVATIONS, TOPSOIL AND EXCAVATION STRIPPING DEPTH, INSPECTION OF ALL SUBSOIL EXPOSED DURING STRIPPING, SITE GRADING, EXCAVATION OPERATIONS, APPROVAL OF FILL MATERIALS, DENSITY TESTING OF FILLS TO ENSURE PLACEMENT PER SPECIFICATION REQUIREMENTS, INSPECT FOUNDATION BEARING SURFACES, AND VERIFY ALLOWABLE BEARING PRESSURES ARE THE TESTING LABORATORY'S RESPONSIBILITY.</p> <p>ALL FOUNDATIONS ARE TO REST ON FIRM UNDISTURBED SOIL OR COMPACTED FILL FREE FROM ORGANIC MATTER. IF POOR SOIL CONDITIONS ARE ENCOUNTERED AT FOUNDATION DEPTHS SHOWN, NOTIFY OWNER'S REPRESENTATIVE BEFORE PROCEEDING WITH CONSTRUCTION.</p> <p>FOUNDATIONS HAVE BEEN DESIGNED BASED ON AN ALLOWABLE SOIL BEARING CAPACITY OF 2000 PSF.</p> <p>NEW FOOTINGS PLACED ADJACENT TO EXISTING FOOTINGS SHALL BEAR AT THE SAME ELEVATION, UNLESS NOTED OTHERWISE.</p> <p>STEP FOOTINGS AT A RATIO OF ONE (1) VERTICAL TO TWO (2) HORIZONTAL WITH A MAXIMUM VERTICAL STEP OF 2'-0" UNLESS NOTED OTHERWISE.</p> <p>INUNDATION AND LONG TERM EXPOSURE OF BEARING SURFACES, WHICH WILL RESULT IN DETERIORATION OF BEARING FORMATIONS, SHALL BE PREVENTED. FOOTINGS SHALL BE PLACED IMMEDIATELY FOLLOWING FOOTING EXCAVATIONS AND BEARING SURFACE INSPECTION.</p> <p>UTILITY LINES SHALL NOT BE PLACED THROUGH OR BELOW FOUNDATIONS WITHOUT THE APPROVAL OF THE ENGINEER OF RECORD.</p> <p>MASONRY:</p> <p>ALL BRICK MASONRY SHALL COMPLY WITH THE RECOMMENDATIONS OF BRICK INSTITUTE OF AMERICA (BIA AND LOCAL BUILDING CODE REQUIREMENTS.)</p> <p>ALL CONCRETE MASONRY SHALL CONFORM TO "BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES" (TMS 402-13) AND "SPECIFICATION FOR MASONRY STRUCTURES" (TMS 602-13) AND LOCAL BUILDING CODE REQUIREMENTS.</p> <p>CONCRETE MASONRY UNITS SHALL CONFORM TO ASTM C90, TYPE I OR II.</p> <p>THE MINIMUM PRISM COMPRESSIVE STRENGTH (fm) SHALL BE 1500 PSI.</p> <p>ASTM C270, TYPE "S" MORTAR WITH A MINIMUM COMPRESSIVE STRENGTH OF 1800 PSI SHALL BE USED FOR ALL MASONRY WALLS.</p> <p>GROUT TO FILL CORES SHALL BE ASTM C476, COARSE GROUT (3/8" MAXIMUM AGGREGATE) WITH A MINIMUM COMPRESSIVE STRENGTH OF 2500 PSI IN 28 DAYS.</p> <p>REINFORCING BARS SHALL CONFORM TO ASTM A615, GRADE 60.</p> <p>LAY MASONRY UNITS WITH FULL MORTAR COVERAGE ON HORIZONTAL AND VERTICAL FACE SHELLS. BED WEBS IN MORTAR IN STARTING COURSE OF FOOTINGS AND IN ALL COURSES OF COLUMNS AND PILASTERS, AND WHERE ADJACENT TO CELLS OR CAVITIES TO BE REINFORCED OR FILLED WITH CONCRETE OR GROUT.</p> <p>MASONRY SHALL BE LAID IN RUNNING BOND, UNLESS NOTED OTHERWISE.</p>	<p>MASONRY (CONT.):</p> <p>VERTICAL REINFORCING LAP SPLICES SHALL BE 48 BAR DIAMETERS.</p> <p>PROVIDE HORIZONTAL LADDER STYLE JOINT REINFORCING WITH 9 GAUGE SIDE AND CROSS RODS (GALVANIZED) SPACED AT 16" ON CENTER VERTICALLY. HORIZONTAL JOINT REINFORCING SHALL BE LAPPED A MINIMUM OF (2) CROSS BARS OR 6", WHICHEVER IS GREATER, OR BOND BEAMS WITH (1) #5 BAR (CONT.) AT 4'-0" O.C. MAX.</p> <p>MAXIMUM GROUT POUR SHALL BE 5'-0". CONSOLIDATE BY MECHANICAL VIBRATION.</p> <p>MORTAR PROTRUSIONS, EXTENDING INTO CELLS OR CAVITIES TO BE REINFORCED AND FILLED, SHALL BE REMOVED.</p> <p>GROUT A MINIMUM OF 16 INCHES x 24 INCHES WIDE CENTERED UNDER ALL BEAM BEARINGS AND 8 INCHES x 16 INCHES WIDE CENTERED UNDER ALL LINTEL BEARINGS.</p> <p>GROUT A MINIMUM OF 8 INCHES x 24 INCHES WIDE CENTERED UNDER ALL JOIST BEARINGS.</p> <p>GROUT CORES SOLID A MINIMUM OF ONE COURSE BELOW ANY CHANGE IN WALL THICKNESS.</p> <p>THE COLLAR-JOINT IN MULTI-WYTHE WALLS BELOW GRADE SHALL BE FULLY GROUTED AS THE WALL IS CONSTRUCTED.</p> <p>FILL ALL BEARING POCKETS WITH SOLID MASONRY AFTER INSTALLING BEAMS.</p> <p>WHERE THERE IS A CHANGE IN BOND BEAM ELEVATION, PROVIDE LAP BETWEEN BONDS BEAMS THROUGH 2 BARS OF VERTICAL REINFORCING OR 4 FEET, WHICHEVER IS GREATER.</p> <p>ALL CORNERS ARE TO BE TIED BY MASONRY BOND.</p> <p>CMU WALLS SHALL HAVE VERTICAL CONTROL JOINTS LOCATED APPROXIMATELY 20'-0" O.C. REFER TO TYPICAL CONTROL JOINT DETAILS ON STRUCTURAL DRAWINGS FOR CONTROL JOINT DETAILS AND RESTRICTIONS. LOCATIONS OF CMU CONTROL JOINTS DO NOT HAVE TO ALIGN WITH VENEER CONTROL JOINTS. REFER TO ARCHITECTURAL DRAWINGS FOR VENEER CONTROL JOINT LOCATIONS.</p> <p>PROVIDE MATERIAL/MEANS TO DEBOND MORTAR FROM DISSIMILAR MATERIALS IN ALL VENEERS (I.E., CAST-STONE AND CLAY BRICK, CONCRETE BLOCK AND CLAY BRICK, ETC.).</p> <p>EMBEDDED ELECTRICAL CONDUIT SHALL NOT BE LOCATED IN THE SAME CELL WHERE VERTICAL REINFORCEMENT IS LOCATED WITHOUT PERMISSION OF THE STRUCTURAL ENGINEER OF RECORD. SUBMIT CONFLICT AREAS TO ENGINEER FOR REVIEW PRIOR TO INSTALLING CONDUIT.</p> <p>CONCRETE:</p> <p>GENERAL:</p> <p>ALL CONCRETE CONSTRUCTION SHALL CONFORM TO ACI 301-10, "STANDARD SPECIFICATION FOR STRUCTURAL CONCRETE" AND ACI 302, 305 AND 306 UNLESS NOTED OTHERWISE.</p> <p>ALL DETAILING, FABRICATION AND PLACING OF CONCRETE SHALL CONFORM TO ACI 318-14, "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE" AND THE LATEST ACI "MANUAL OF STANDARD PRACTICE FOR DETAIL REINFORCED CONCRETE STRUCTURES" UNLESS NOTED OTHERWISE.</p> <p>SAFETY AND PERFORMANCE OF THE STRUCTURE ARE THE RESPONSIBILITY OF THE CONTRACTOR INsofar AS THEY ARE AFFECTED BY THE LOCATION AND DETAILS OF CONSTRUCTION JOINTS. SHOP DRAWINGS OF THE PROPOSED CONSTRUCTION JOINT LOCATIONS AND DETAILS ARE TO BE SUBMITTED TO THE ARCHITECT FOR APPROVAL.</p> <p>ALL CONCRETE SHALL DEVELOP A MINIMUM COMPRESSIVE STRENGTH IN 28 DAYS AS FOLLOWS:</p> <table><tr><td>ALL CONCRETE - 4000 PSI</td></tr></table> <p>ALL CONCRETE EXPOSED TO WEATHER SHALL CONTAIN 6% (±1%) AIR ENTRAINMENT.</p> <p>REINFORCING BARS SHALL CONFORM TO ASTM A615, GRADE 60.</p> <p>WELDED WIRE FABRIC REINFORCING SHALL CONFORM TO ASTM A1064 AND BE FURNISHED IN FLAT SHEETS AND INSTALLED ON CHAIRS OR PRECAST CONCRETE BLOCKS.</p> <p>NO TACK WELDING OF REINFORCING IN THE FIELD IS PERMITTED.</p> <p>PROVIDE CORNER BARS AT ALL LOCATIONS WHERE REINFORCEMENT CHANGES DIRECTION.</p> <p>PROVIDE STRAIGHT AND DIAGONAL BARS AT EDGES OF ALL OPENINGS.</p> <p>REINFORCING EMBEDMENT AND LAP SPLICES (INCHES) FOR 4000 PSI CONCRETE</p> <table><tr><th>BAR SIZE</th><th>OTHER ANCHORAGE</th><th>SPLICE</th><th>TOP* ANCHORAGE</th><th>SPLICE</th></tr><tr><td># 3</td><td>15</td><td>19</td><td>19</td><td>24</td></tr><tr><td># 4</td><td>19</td><td>25</td><td>25</td><td>33</td></tr><tr><td># 5</td><td>24</td><td>31</td><td>31</td><td>41</td></tr><tr><td># 6</td><td>29</td><td>37</td><td>37</td><td>49</td></tr><tr><td># 7</td><td>42</td><td>54</td><td>54</td><td>71</td></tr><tr><td># 8</td><td>48</td><td>62</td><td>62</td><td>81</td></tr><tr><td># 9</td><td>54</td><td>70</td><td>70</td><td>91</td></tr><tr><td>#10</td><td>60</td><td>78</td><td>78</td><td>101</td></tr><tr><td>#11</td><td>66</td><td>85</td><td>85</td><td>111</td></tr></table> <p>* HORIZONTAL BARS WITH MORE THAN 12" OF CONCRETE BELOW BAR</p> <p>PROVIDE DOVETAIL ANCHORS AT 2'-0" ON CENTER FOR ALL MASONRY FACED CONCRETE WALLS.</p> <p>CLEAR MINIMUM COVER OF CONCRETE OVER REINFORCING BARS SHALL BE AS FOLLOWS:</p> <table><tr><td>CONCRETE PLACED AGAINST EARTH</td><td>3"</td></tr><tr><td>CONCRETE EXPOSED TO EARTH OR WEATHER</td><td></td></tr><tr><td>#6 TO #18 BARS</td><td>2"</td></tr><tr><td>#5 BAR OR SMALLER</td><td>1 1/2"</td></tr><tr><td>CONCRETE NOT EXPOSED TO EARTH OR WEATHER</td><td></td></tr><tr><td>SLABS & WALLS #11 BAR AND SMALLER</td><td>3/4"</td></tr><tr><td>CONCRETE BEAMS, COLUMNS, & PIERS</td><td>1 1/2"</td></tr></table>	ALL CONCRETE - 4000 PSI	BAR SIZE	OTHER ANCHORAGE	SPLICE	TOP* ANCHORAGE	SPLICE	# 3	15	19	19	24	# 4	19	25	25	33	# 5	24	31	31	41	# 6	29	37	37	49	# 7	42	54	54	71	# 8	48	62	62	81	# 9	54	70	70	91	#10	60	78	78	101	#11	66	85	85	111	CONCRETE PLACED AGAINST EARTH	3"	CONCRETE EXPOSED TO EARTH OR WEATHER		#6 TO #18 BARS	2"	#5 BAR OR SMALLER	1 1/2"	CONCRETE NOT EXPOSED TO EARTH OR WEATHER		SLABS & WALLS #11 BAR AND SMALLER	3/4"	CONCRETE BEAMS, COLUMNS, & PIERS	1 1/2"
TRIB. AREA	ROOF ZONE 1	ROOF ZONE 1'	ROOF ZONE 2																																																																																																										
0-10 SF	+16, -34 PSF	+16, -20 PSF	+16, -45 PSF																																																																																																										
>10-20 SF	+16, -33 PSF	+16, -20 PSF	+16, -43 PSF																																																																																																										
>20-50 SF	+16, -29 PSF	+16, -20 PSF	+16, -39 PSF																																																																																																										
>50-100 SF	+16, -27 PSF	+16, -20 PSF	+16, -36 PSF																																																																																																										
TRIB. AREA	ROOF ZONE 3	WALL ZONE 4	WALL ZONE 5																																																																																																										
0-10 SF	+16, -62 PSF	+20, -24 PSF	+16, -29 PSF																																																																																																										
>10-20 SF	+16, -56 PSF	+19, -23 PSF	+16, -27 PSF																																																																																																										
>20-50 SF	+16, -49 PSF	+18, -21 PSF	+16, -24 PSF																																																																																																										
>50-100 SF	+16, -43 PSF	+17, -20 PSF	+16, -23 PSF																																																																																																										
ALL CONCRETE - 4000 PSI																																																																																																													
BAR SIZE	OTHER ANCHORAGE	SPLICE	TOP* ANCHORAGE	SPLICE																																																																																																									
# 3	15	19	19	24																																																																																																									
# 4	19	25	25	33																																																																																																									
# 5	24	31	31	41																																																																																																									
# 6	29	37	37	49																																																																																																									
# 7	42	54	54	71																																																																																																									
# 8	48	62	62	81																																																																																																									
# 9	54	70	70	91																																																																																																									
#10	60	78	78	101																																																																																																									
#11	66	85	85	111																																																																																																									
CONCRETE PLACED AGAINST EARTH	3"																																																																																																												
CONCRETE EXPOSED TO EARTH OR WEATHER																																																																																																													
#6 TO #18 BARS	2"																																																																																																												
#5 BAR OR SMALLER	1 1/2"																																																																																																												
CONCRETE NOT EXPOSED TO EARTH OR WEATHER																																																																																																													
SLABS & WALLS #11 BAR AND SMALLER	3/4"																																																																																																												
CONCRETE BEAMS, COLUMNS, & PIERS	1 1/2"																																																																																																												
C																																																																																																													
B																																																																																																													
A																																																																																																													

	DESCRIPTION

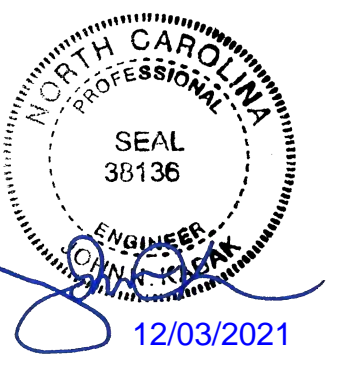


GPD Engineering and Architecture
Professional Corporation - C3879

520 S. MAIN ST., SUITE 2531
AKRON, OH 44311
PHONE: 330.572.2100
FAX: 330.572.2101

Copyright GPD Engineering and Architecture Professional Corporation 2020

DESCRIPTION	DATE	REV



12/03/2021

BENSON SHELL
12321 NC-210
BENSON, NC 27504

STRUCTURAL GENERAL NOTES

PERMIT	DATE
	12/03/2021
BID	
	--- --- ---

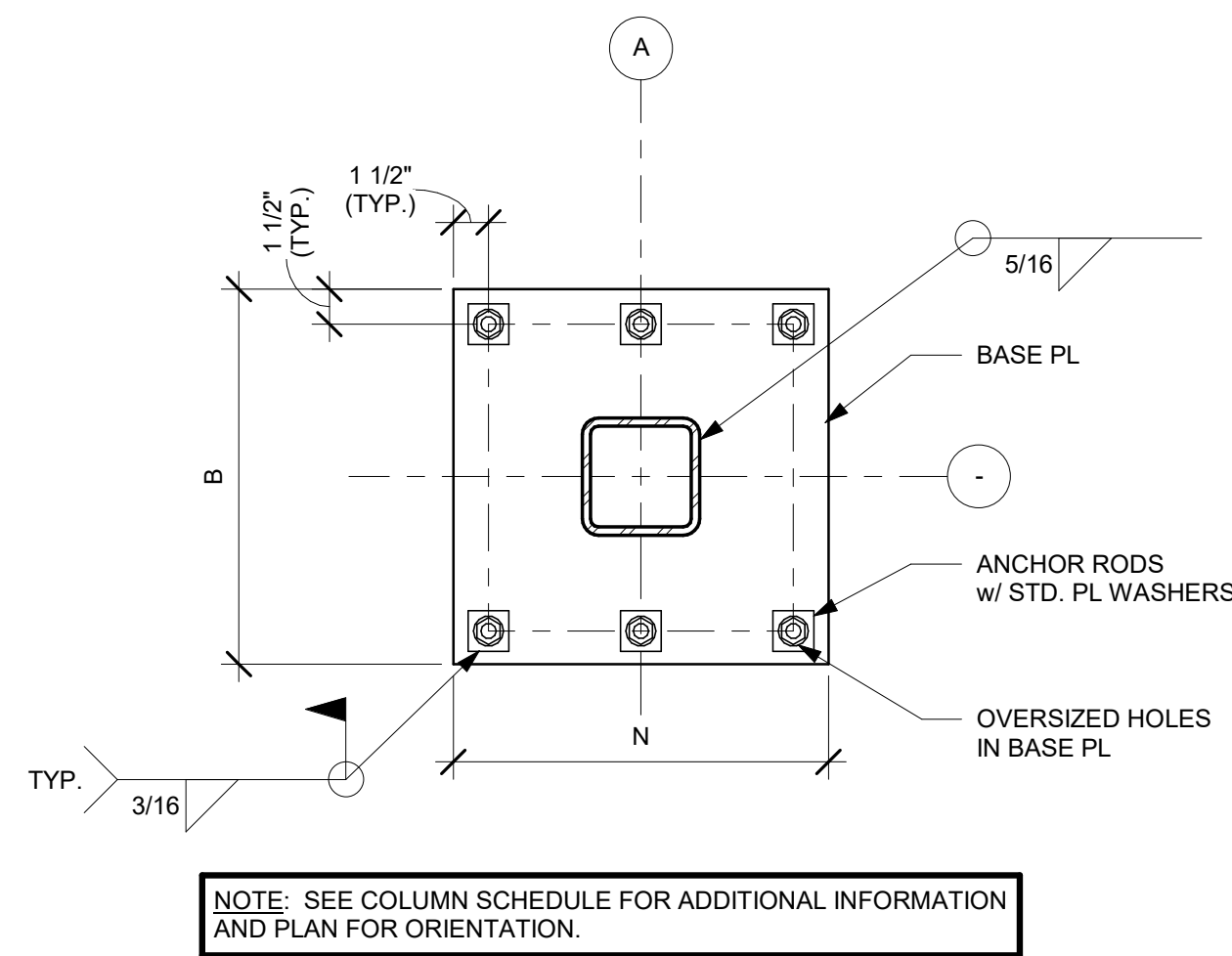
PROJECT MANAGER	DESIGNER
Approver	Author

JOB NO.

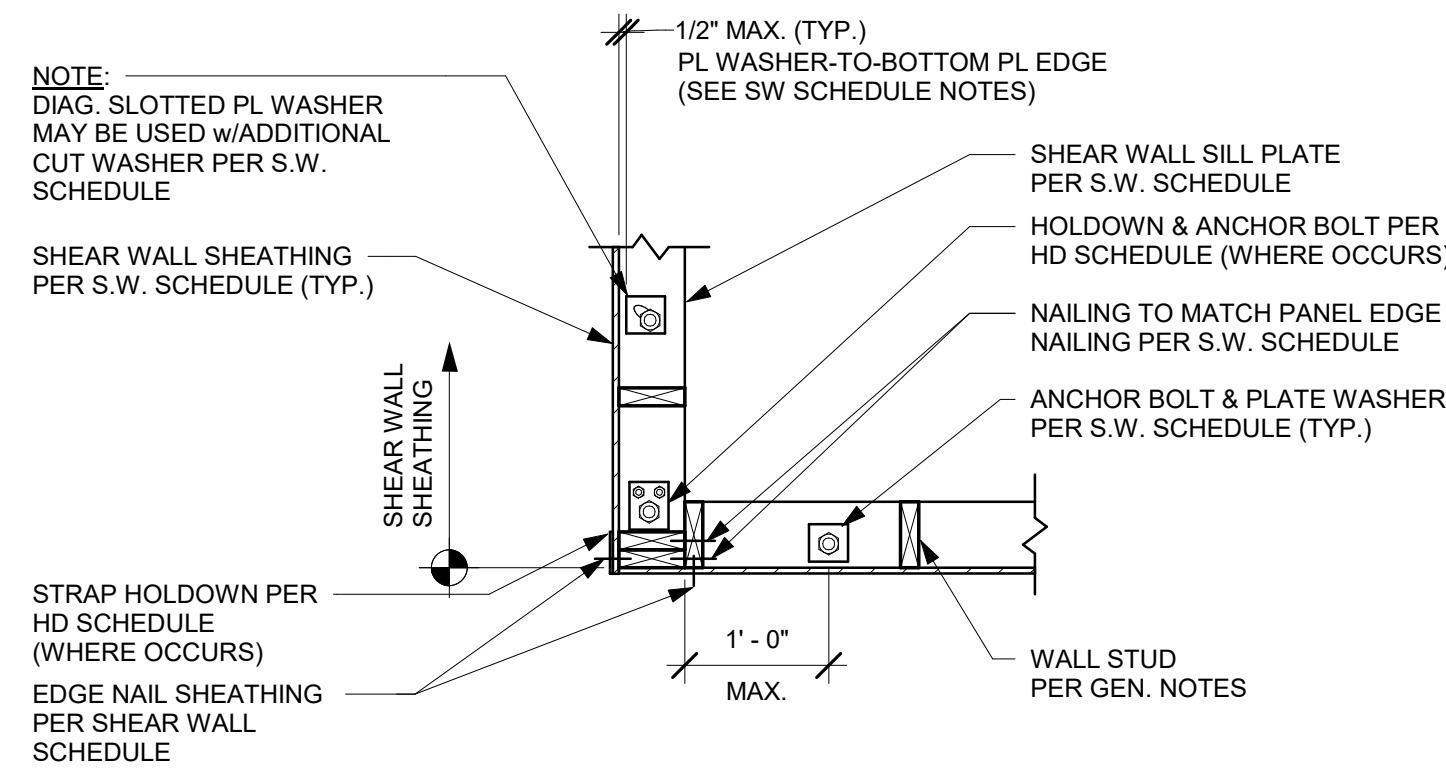
2021379.01

S0001

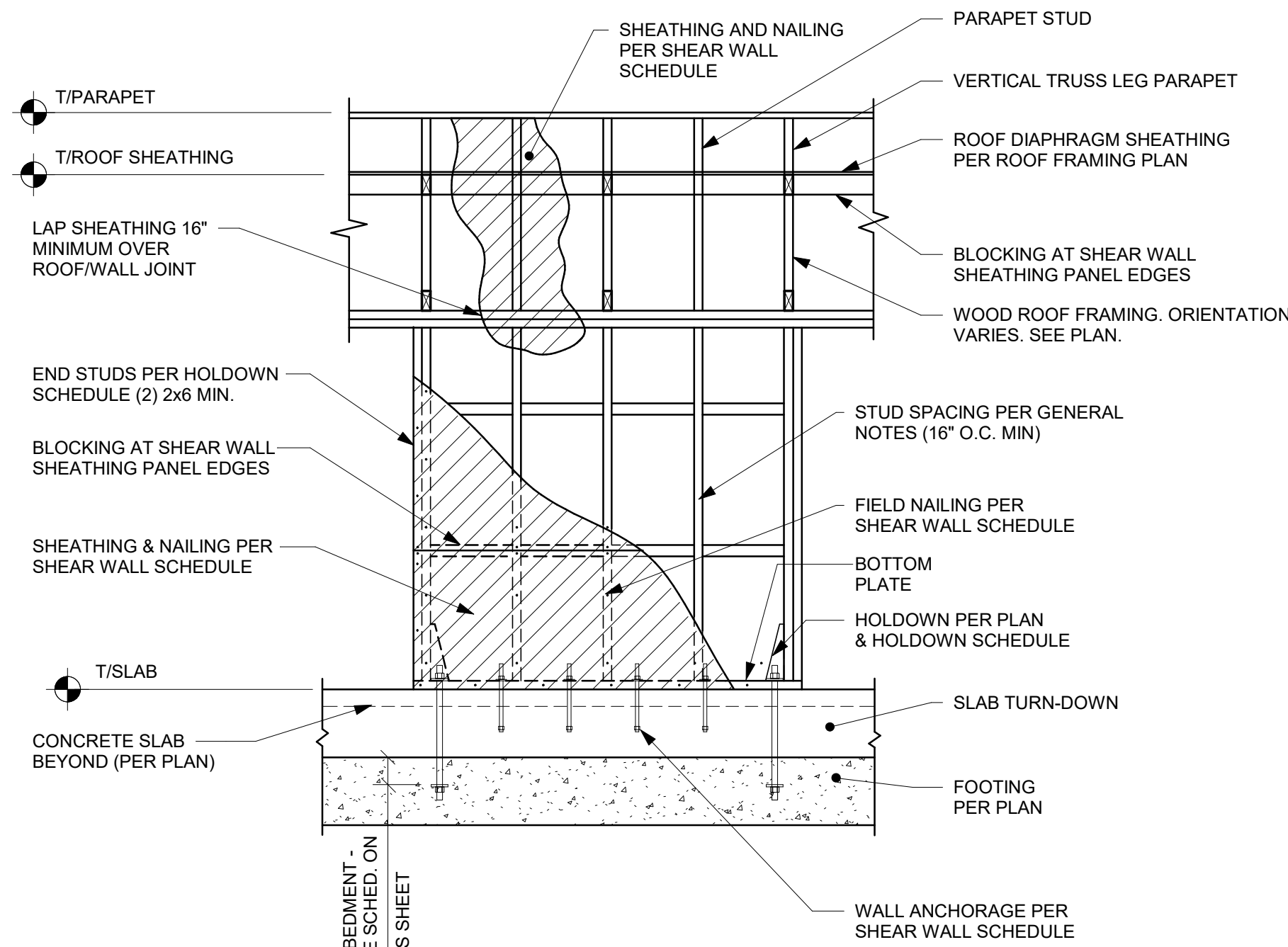
<



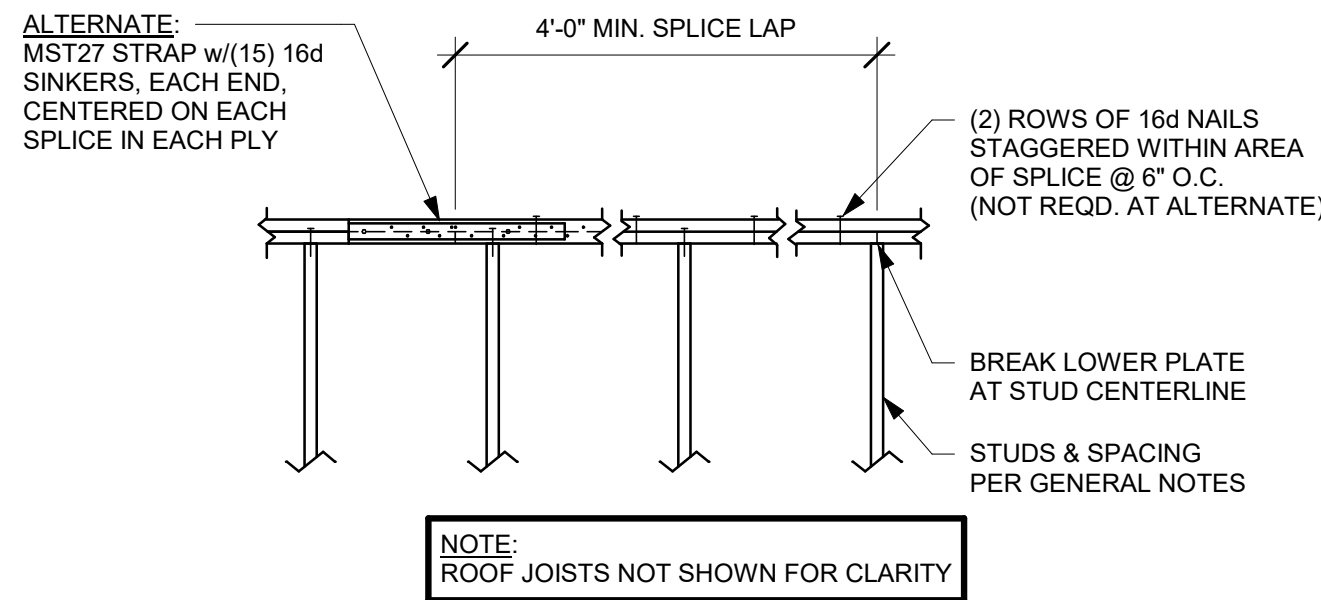
6 TYPICAL MOMENT BASE PLATE DETAIL
Scale: 1 1/2" = 1'-0"



3 TYP. PLAN VIEW - SHEAR WALL HOLDOWNS & ANCHOR BOLTS
Scale: 3/4" = 1'-0"



1 TYP. SHEAR WALL ELEVATION
Scale: 1/2" = 1'-0"



7 TYPICAL SPLICE PLATE DETAIL
Scale: 1/2" = 1'-0"

SHEAR WALL HOLDOWN SCHEDULE				
MODEL #	ANCHORAGE TYPE/ MIN EMBEDMENT	FASTENERS	END STUD REQUIRED	CAPACITY (LBS.)
HDU5	5/8" DIA. x 6" EMB.* ANCHOR BOLT	(10) 1/4"Øx2 1/2" SDS WOOD SCREWS	(2) 2x STUDS	5,600
HDU11	1" DIA. x 12" EMB.* ANCHOR BOLT	(30) 1/4"Øx2 1/2" SDS WOOD SCREWS	(3) 2x STUDS	7,870

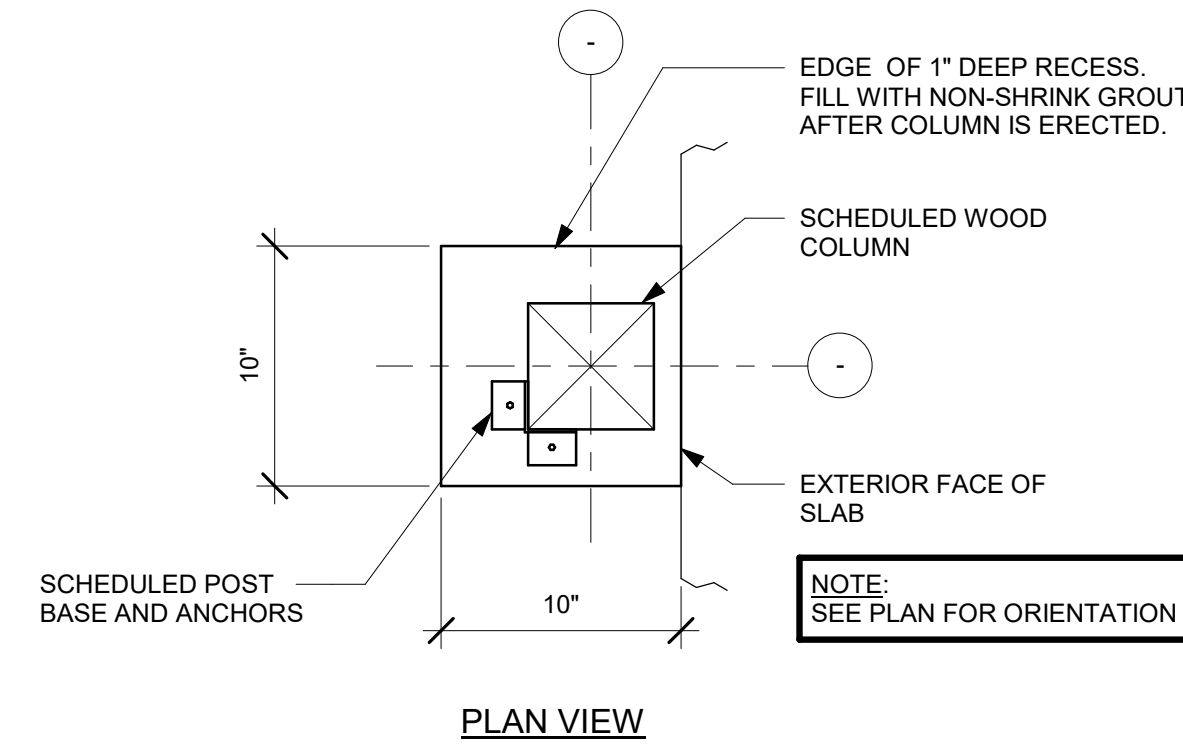
- * EMBEDMENT SPECIFIED IS INTO FOOTING
- NOTES:
- HOLDOWNS SPECIFIED ARE AS MANUFACTURED BY SIMPSON STRONG-TIE CO. INC. ACCEPTABLE EQUIVALENT PRODUCT SUBSTITUTIONS ARE AVAILABLE FROM OTHER MANUFACTURERS w/ SER. APPROVAL.
 - LOCATE ALL HOLDOWNS AT ENDS OF ALL SHEAR WALLS & FASTEN TO BUNDLED END STUDS.
 - BUNDLED END STUDS SHOULD BE STITCH-NAILED TOGETHER USING MINIMUM (2) 16d @ 10" O.C. U.N.O.
 - LOCATE "HDU#F" HOLDOWNS AT CONCRETE FOUNDATION LEVEL.
 - ALL HOLDOWN ANCHOR BOLTS SHALL BE 4" MIN. FROM CONCRETE WALL ENDS.
 - SEE GENERAL NOTES FOR ADDITIONAL ANCHOR BOLT REQUIREMENTS.

4 TYP. WOOD FRAMED HOLDOWN SCHEDULE
Scale: 3/4" = 1'-0"

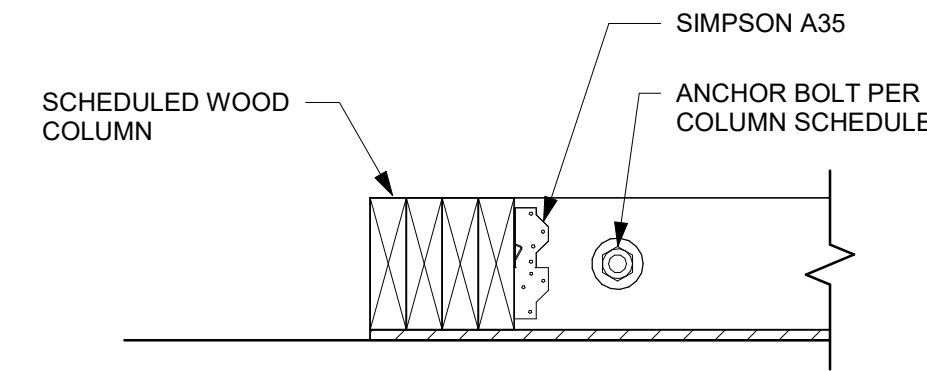
WOOD-FRAMED SHEAR WALL SCHEDULE					
SW TYPE	SW SHEATHING APA RATED	NAIL SIZE & SPACING AT PANEL EDGES	EDGE MEMBER REQUIREMENTS	SILL PLATE REQUIREMENTS	
				ANCHOR BOLT TO SLAB	SILL PLATE AT SLAB
SW-1	15/32" WSP SHEATHING	8d @ 6" O.C.	(2)-2x	1/2"Ø x 6" EMBED. @ 32" O.C.	P.T. 2x
SW-2	15/32" WSP SHEATHING	8d @ 4" O.C.	(2)-2x	1/2"Ø x 6" EMBED. @ 32" O.C.	P.T. 2x

- NOTES:
- INSTALL PANELS HORIZONTALLY
 - BLOCKING IS REQ'D. AT ALL PANEL EDGES.
 - PROVIDE SHEAR WALL SHEATHING & NAILING FOR ENTIRE LENGTH OF THE WALLS INDICATED ON THE PLANS. ENDS OF FULL HEIGHT WALLS ARE DESIGNATED BY WINDOWS OR DOORWAYS OR AS DESIGNATED ON PLANS. HOLDOWN REQUIREMENTS PER PLANS.
 - SHEATHING EDGE NAILING IS REQUIRED AT ALL HOLDOWN POSTS. EDGE NAILING MAY ALSO BE REQUIRED TO EACH STUD USED IN BUILT-UP HOLDOWN POSTS. ADDITIONAL INFORMATION PER HOLDOWN SCHEDULE & DETAILS.
 - INTERMEDIATE FRAMING TO BE 2x MINIMUM MEMBERS. ATTACH SHEATHING TO INTERMEDIATE FRAMING WITH 10d NAILS AT 12" o.c.
 - WHERE SPECIFIED, FRAMING CLIPS SHALL BE SIMPSON "A35" OR "LTP5" OR APPROVED EQUIVALENT.

2 TYP. WOOD-FRAMED SHEAR WALL SCHEDULE
Scale: 3/4" = 1'-0"



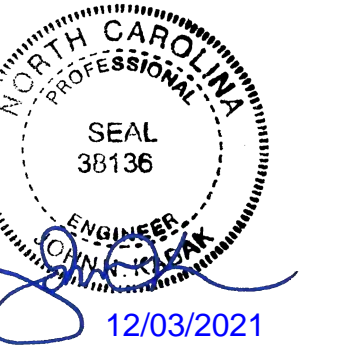
8 TYPICAL WOOD COLUMN BASE DETAIL
Scale: 1 1/2" = 1'-0"



5 TYP. WOOD COLUMN SHEAR CONNECTION
Scale: 1 1/2" = 1'-0"

- ANCHOR BOLTS SHALL BE PROVIDED WITH HOT-DIPPED GALVANIZED STEEL PLATE WASHERS 3x3x1/4 MIN. THE HOLE IN THE PLATE WASHER MAY BE DIAGONALLY SLOTTED 13/16"x1 3/4" PROVIDED A STANDARD CUT WASHER IS PLACED BETWEEN THE PLATE WASHER & NUT. PLATE WASHER TO EXTEND TO WITHIN 1/2" OF THE EDGE OF THE SILL PLATE ON THE SIDE(S) w/ SHEATHING.
- PRESSURE TREATED MATERIAL CAN CAUSE EXCESSIVE CORROSION IN CONTACT WITH FASTENERS. ADDITIONAL INFORMATION PER STRUCTURAL NOTES.
- WHERE WOOD SHEATHING IS APPLIED OVER GYPSUM SHEATHING, CONTACT THE ENGINEER OF RECORD FOR ALTERNATE NAILING REQUIREMENTS.
- AT ADJOINING PANEL EDGES, (2) 2x STUDS NAILED TOGETHER MAY BE USED IN PLACE OF SINGLE 3x STUD. DOUBLE 2x STUDS SHALL BE CONNECTED TOGETHER BY NAILING STUDS TOGETHER WITH 3" LONG NAILS OF THE SAME SPACING & DIAMETER AS THE PLATE NAILING.
- WHERE ABUTTING PANELS OR SILL PLATES REQUIRE 3x MINIMUM, NAIL STUDS TO 3x BOTTOM SILL PLATES w/ EITHER (2) 10dØ END NAILS OR (4) 8d TOENAILS.
- CONTACT THE STRUCTURAL ENGINEER OF RECORD FOR ADHESIVE OR EXPANSION BOLT ALTERNATIVE TO CAST-IN-PLACE ANCHOR BOLTS. SPECIAL INSPECTION MAY BE REQUIRED.

REV.	DATE	DESCRIPTION



BENSON SHELL 12321 NC-210 BENSON, NC 27504		TYPICAL STRUCTURAL DETAILS	
--	--	----------------------------	--

	DATE
PERMIT	--/------
BID	--/------
CONSTRUCTION	--/------
RECORD	--/------

PROJECT MANAGER	DESIGNER
AK	GM

JOB NO. 2021379.01

S5001

REV.	DATE	DESCRIPTION



BENSON SHELL
12321 NC-210
BENSON, NC 27504

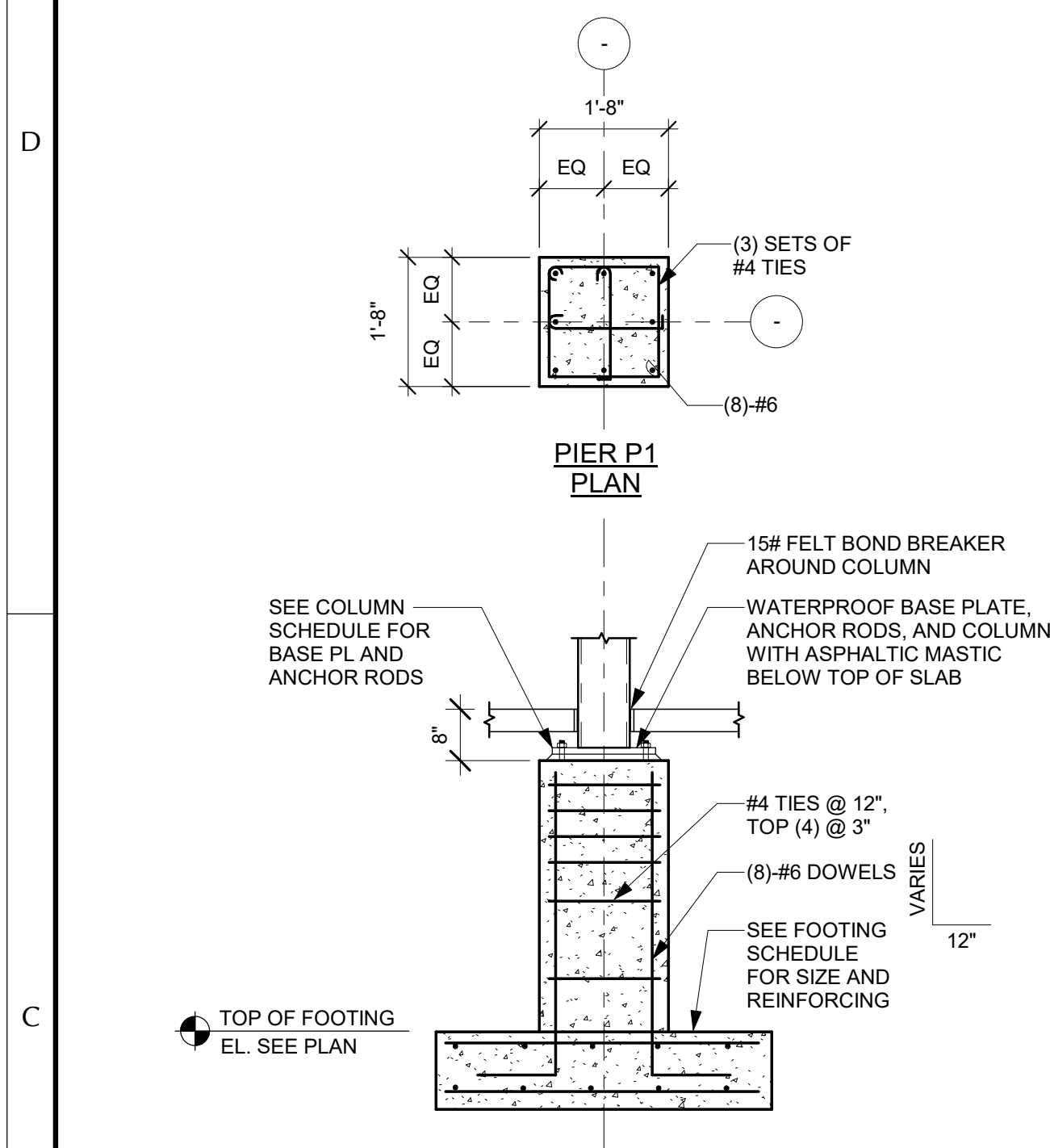
FOUNDATION SECTIONS & DETAILS

	DATE
PERMIT	--/--
BID	--/--
CONSTRUCTION	--/--
RECORD	--/--

PROJECT MANAGER	DESIGNER
AK	GM

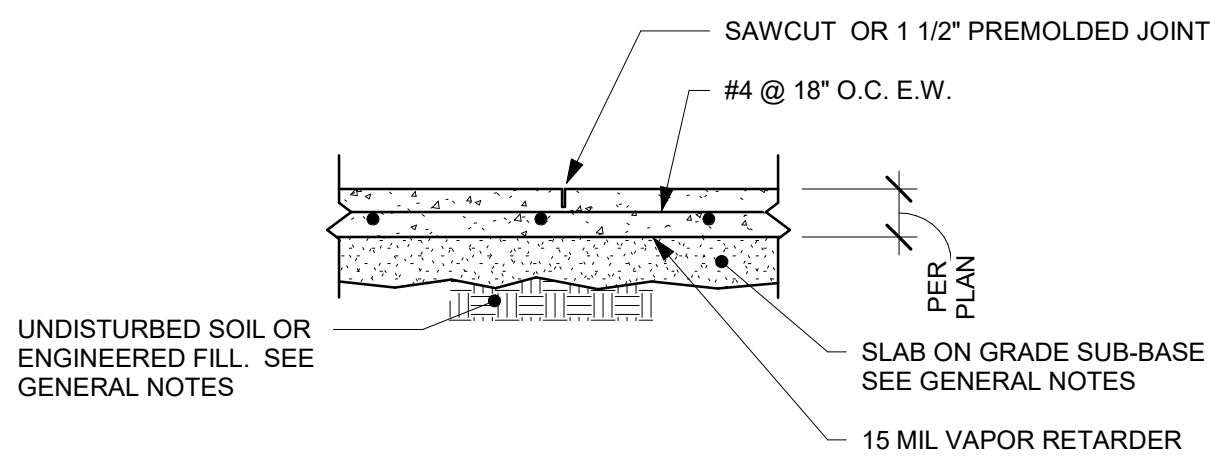
JOB NO.
2021379.01

S5002



8 TYP. PIER SECTION

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

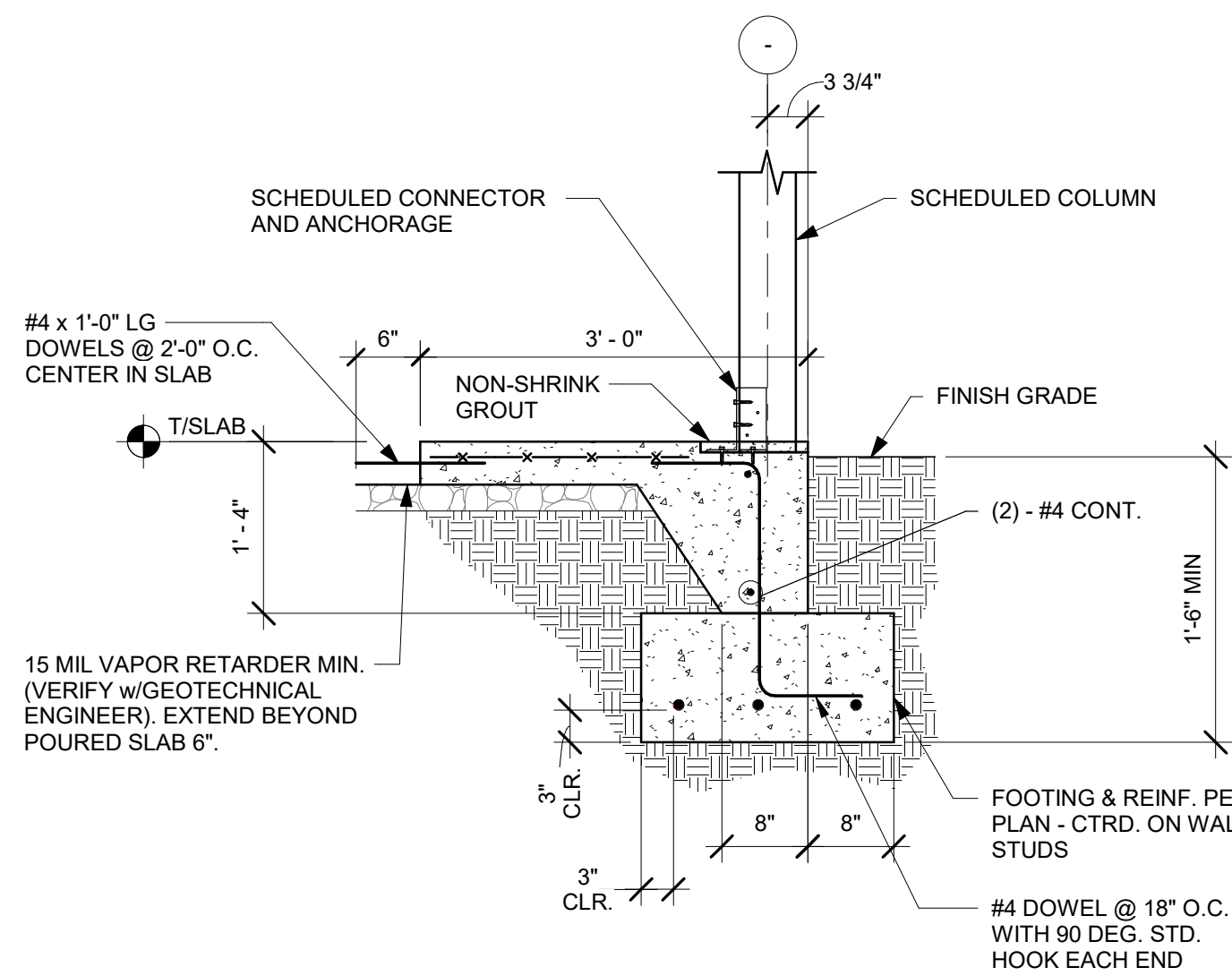


CONTROL JOINT

- NOTES:
- FOR CONSTRUCTION OR CONTROL JOINT LOCATIONS, REFERENCE FOUNDATION/SLAB PLAN.
 - USE "SOFTCUT SAW" AS SOON AS POSSIBLE WITHOUT CAUSING RAVELING OF CONCRETE EDGES. SAWCUT ALONG SHORT DIRECTION OF POUR FIRST.

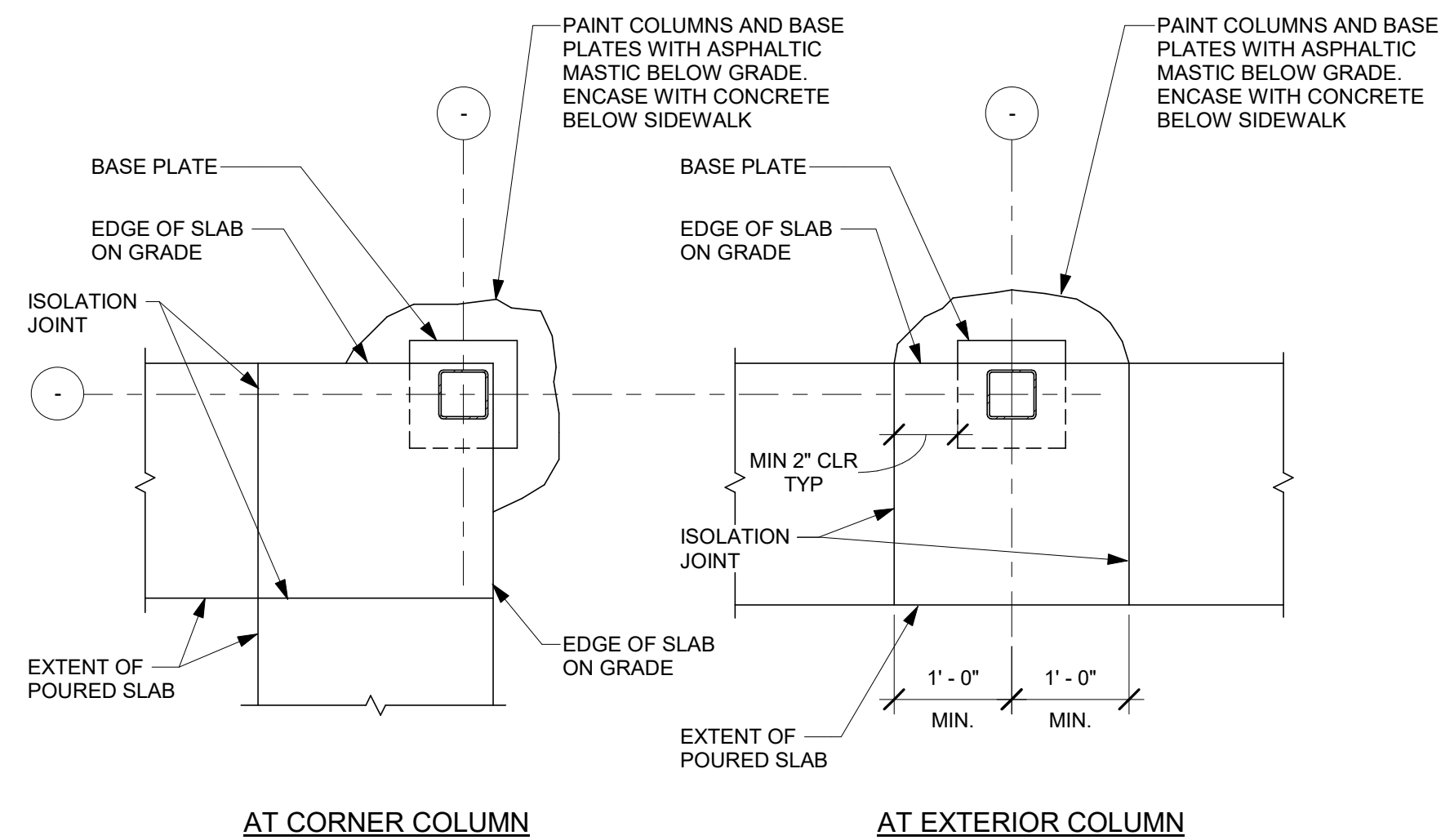
5 TYPICAL SLAB ON GRADE JOINT DETAIL

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



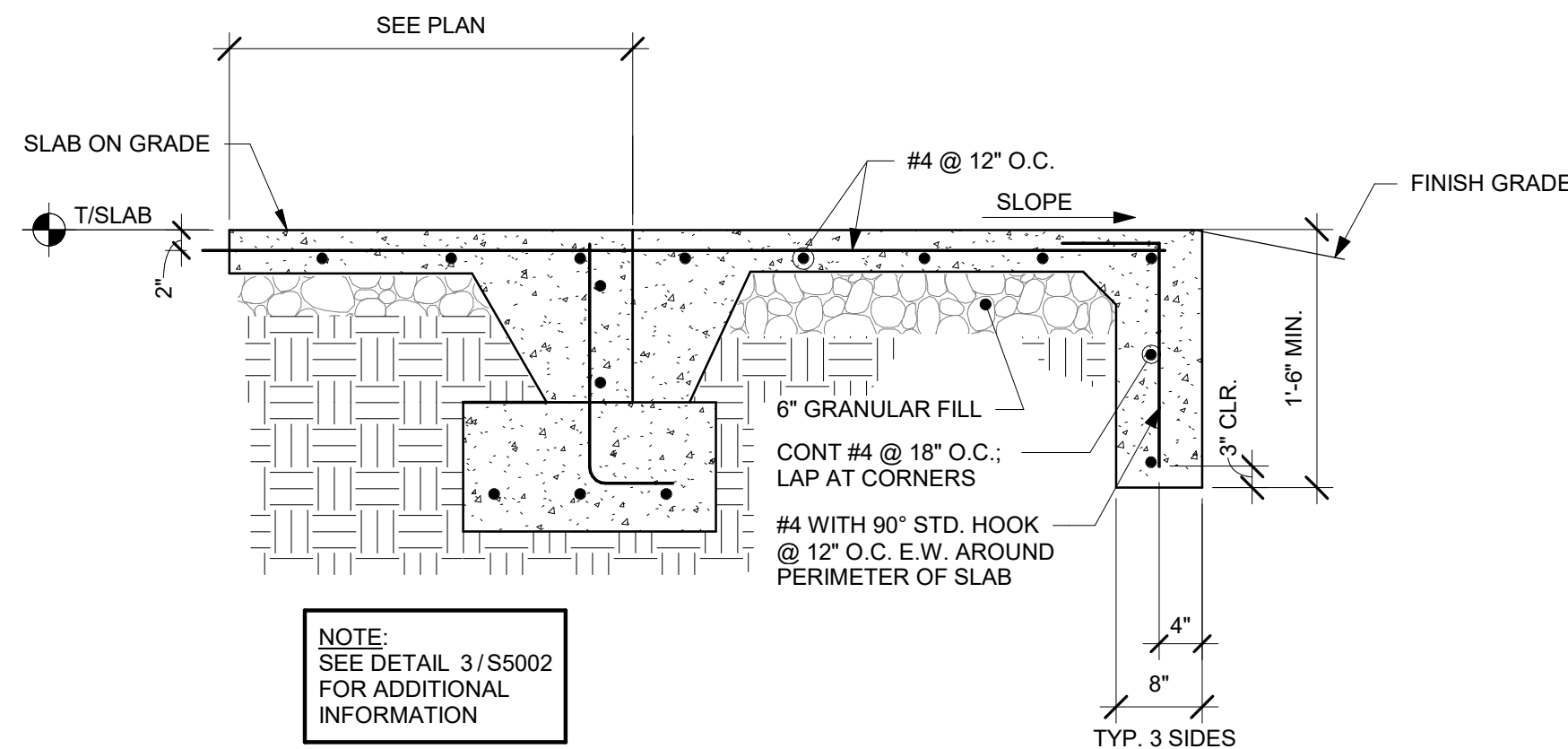
1 SECTION

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



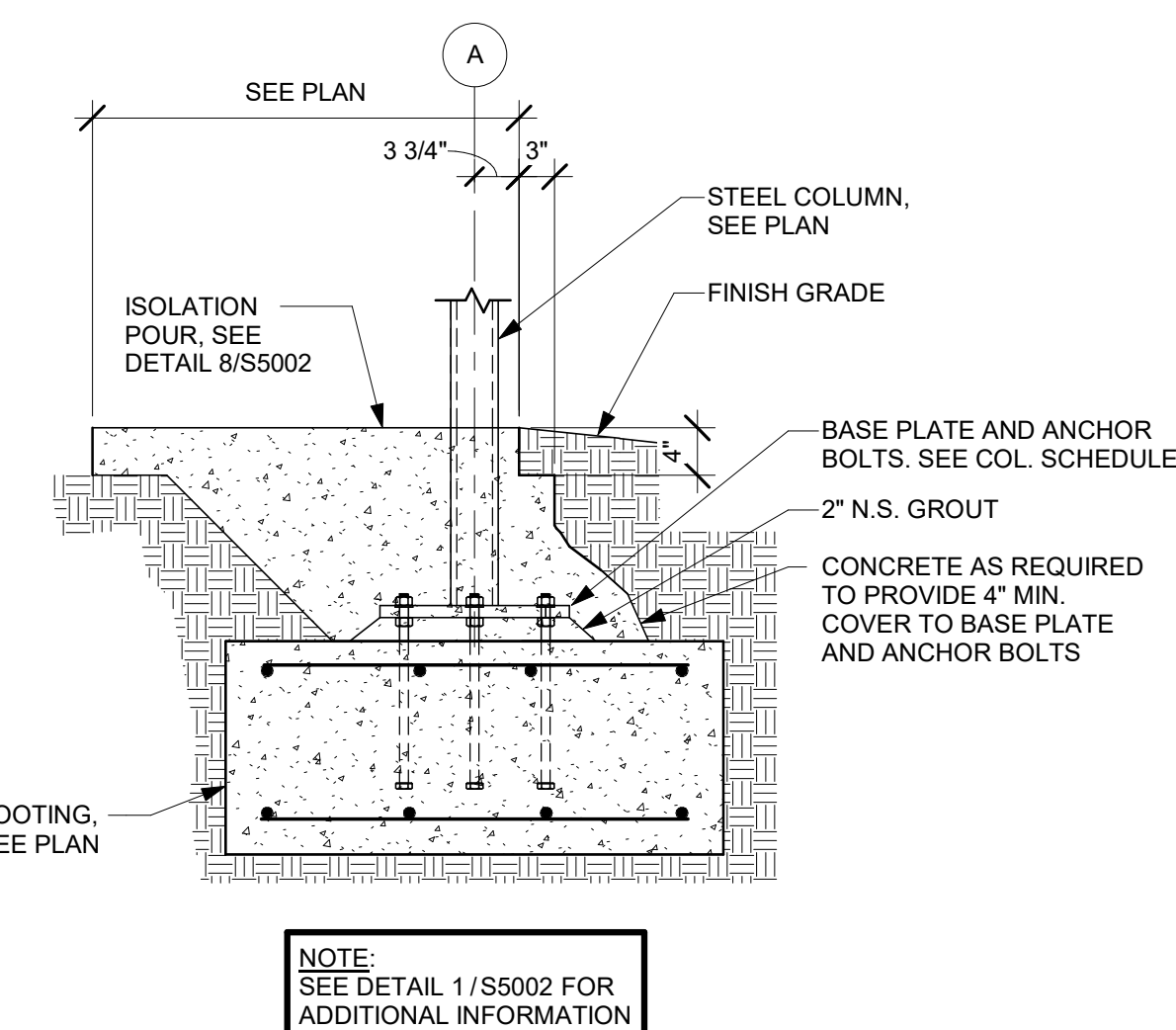
9 TYP. SLAB ISOLATION JOINT DETAILS

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



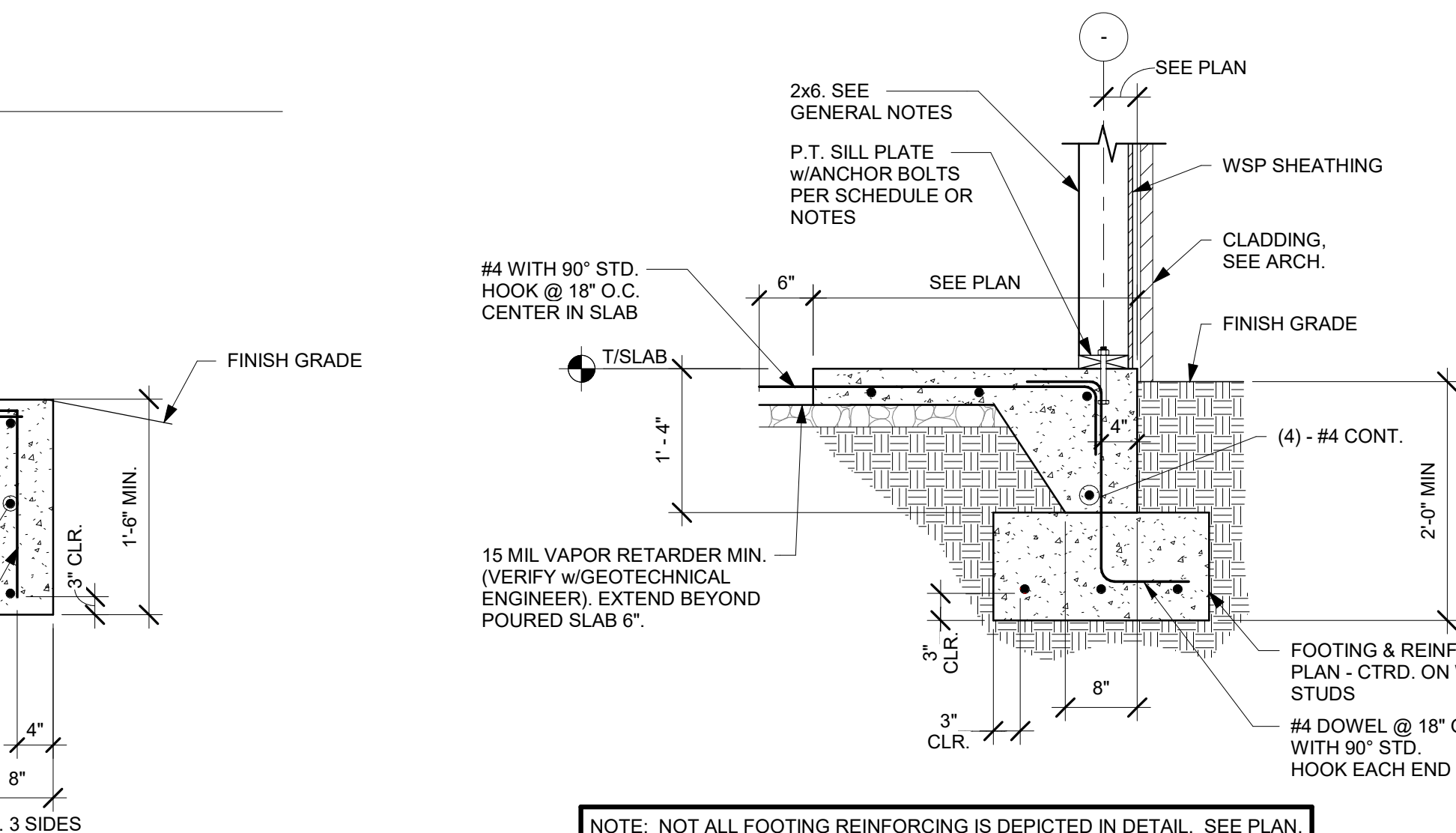
6 FROST SLAB DETAIL

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



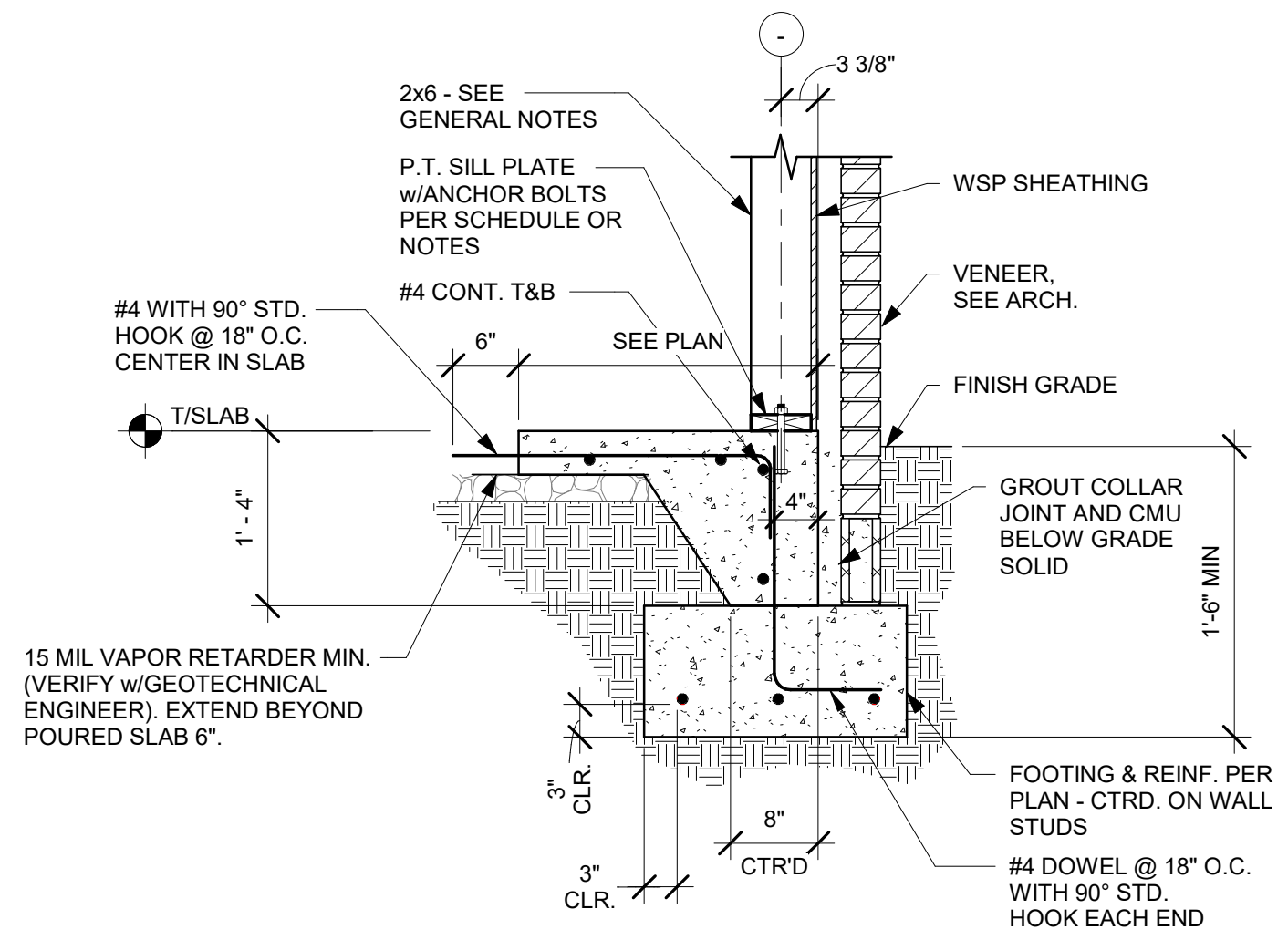
2 SECTION AT MOMENT FRAME COLUMN

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



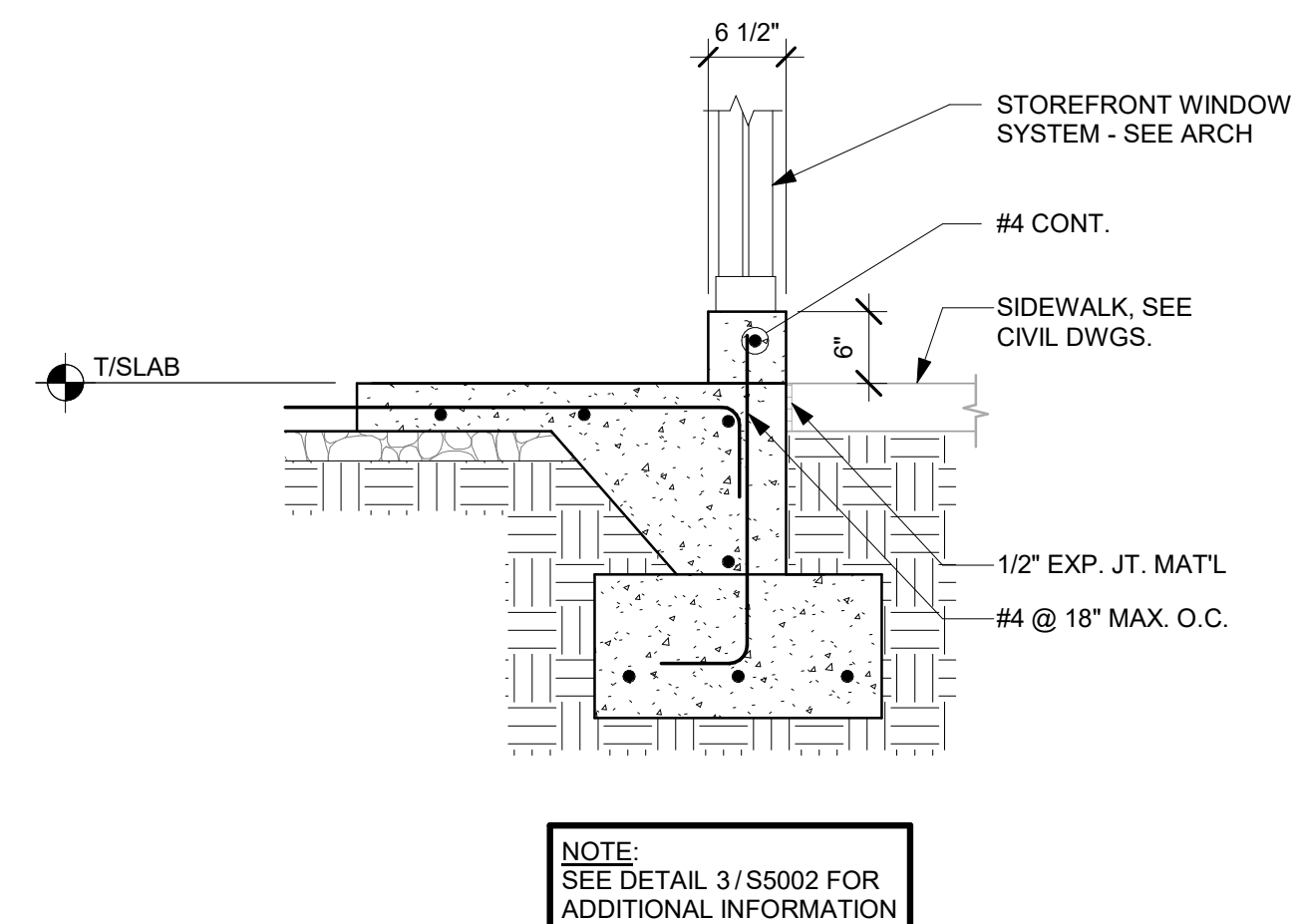
7 EXTERIOR WALL FOOTING

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



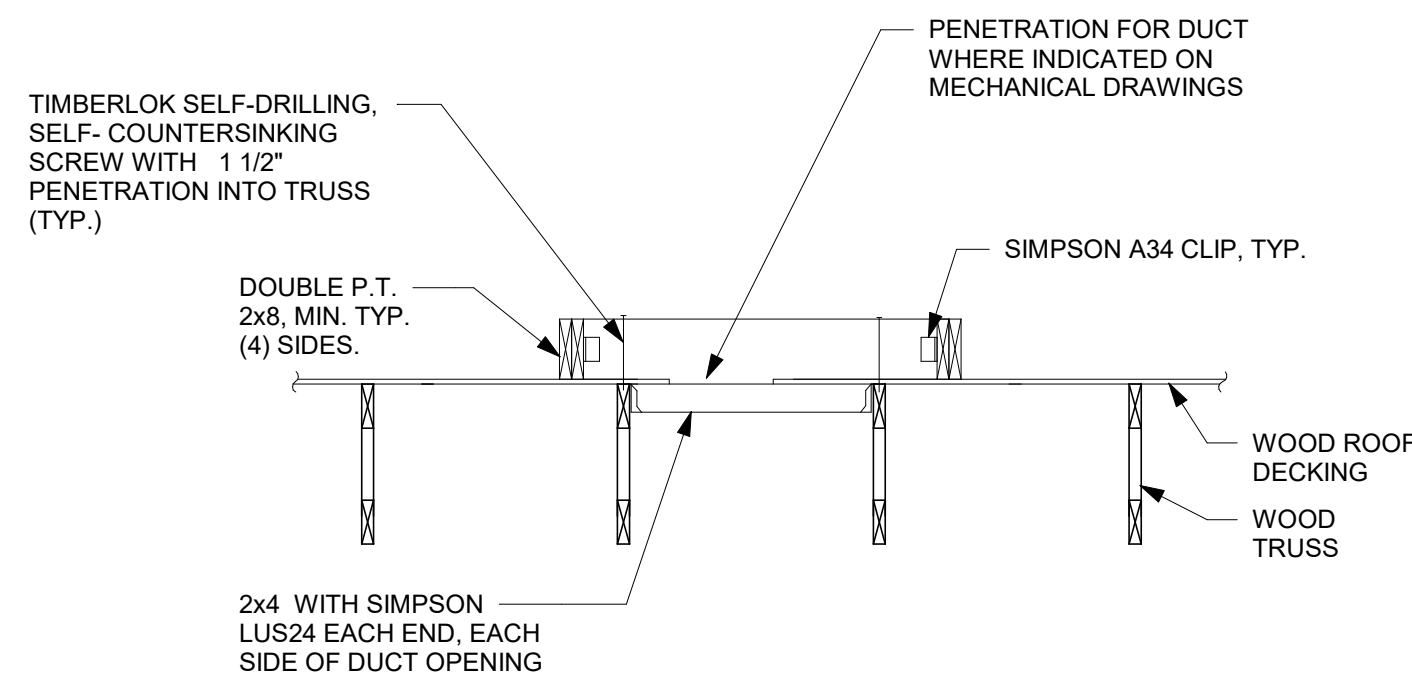
3 EXTERIOR WALL FOOTING

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



4 FOOTING AT STOREFRONT WINDOW

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

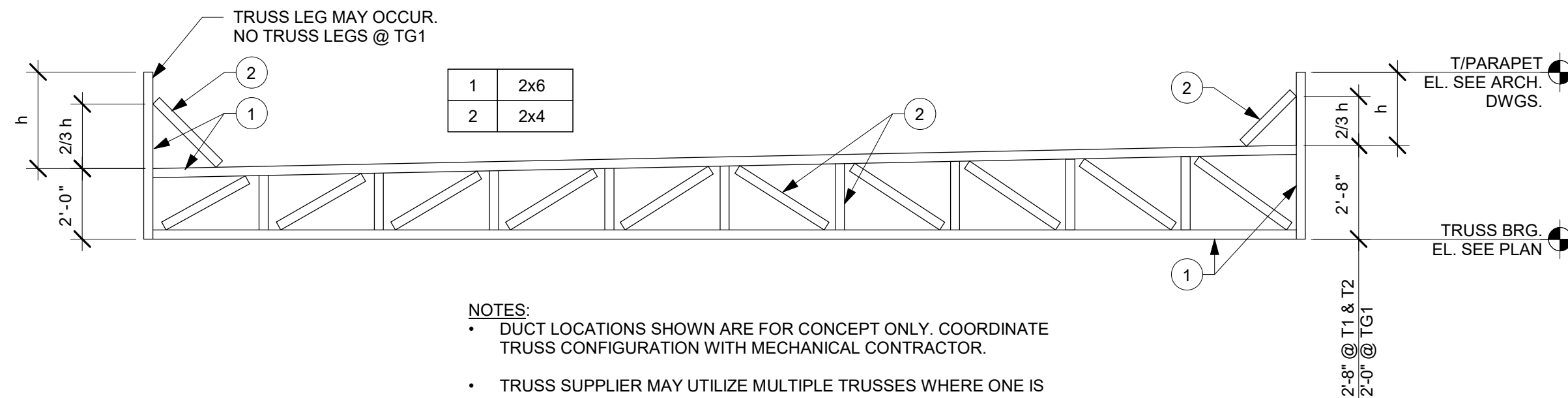


NOTES:

1. FASTEN MECHANICAL UNIT TO CURB WITH 3/8" DIAMETER x 2 1/2" LONG LAG SCREWS AT EACH CORNER AND AT 3'-6" O.C. MAX ALONG CURB.
2. RESTORE INSULATION AND ROOFING TO WEATHER TIGHT CONDITION AFTER INSTALLATION.
3. CUSTOM RIP WOOD CURB MEMBERS OR USE SHIMS TO PROVIDE LEVEL MOUNTING SURFACE.

9 SECTION AT TYP. ROOF OPENING

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

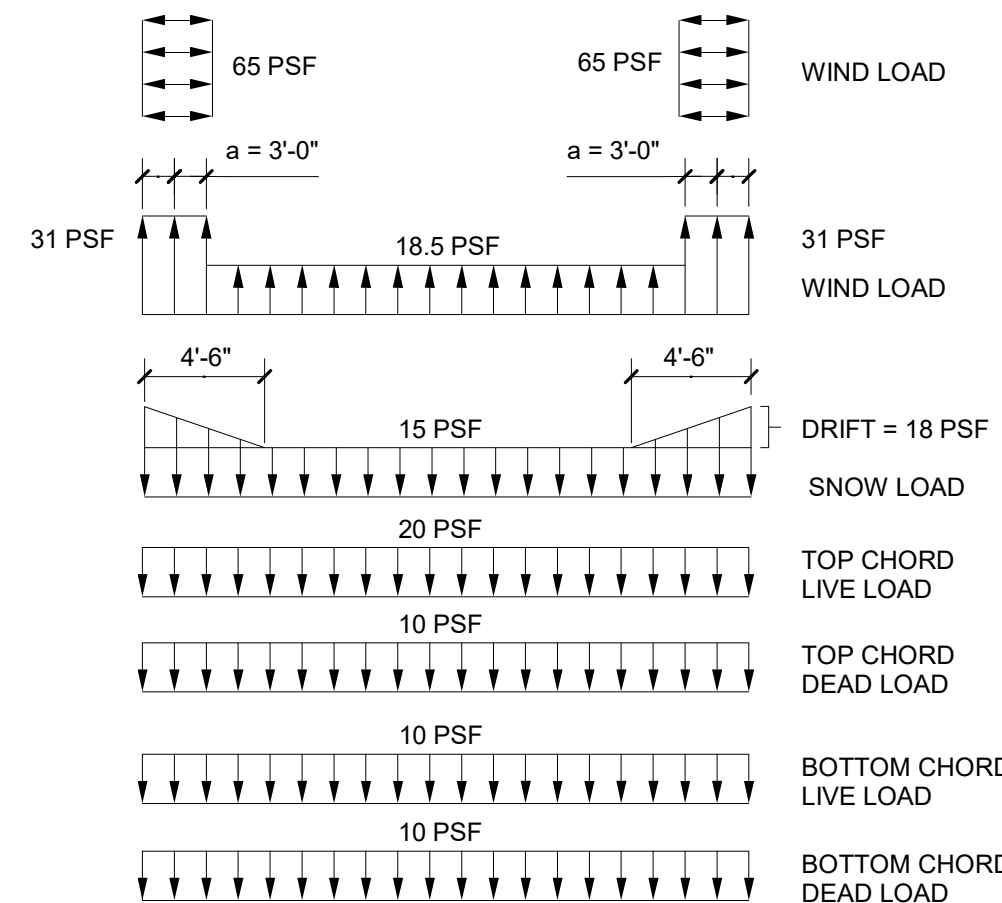


NOTES:

- DUCT LOCATIONS SHOWN ARE FOR CONCEPT ONLY. COORDINATE TRUSS CONFIGURATION WITH MECHANICAL CONTRACTOR.
- TRUSS SUPPLIER MAY UTILIZE MULTIPLE TRUSSES WHERE ONE IS SHOWN ON PLAN AS REQUIRED FOR LOADS AND CONNECTIONS.

10 PRE-ENGINEERED WOOD TRUSS PROFILE

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

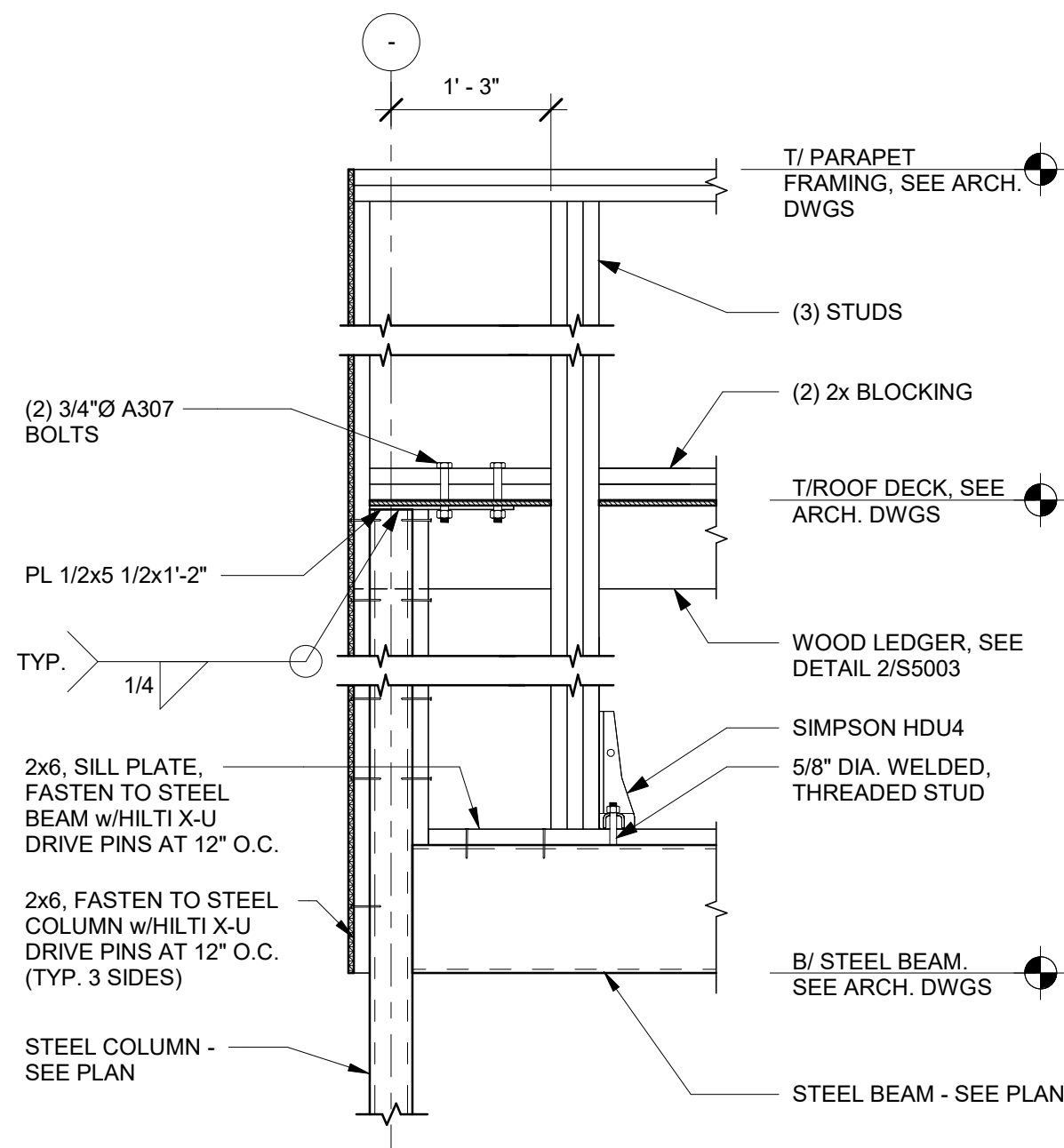


NOTE:

PROVIDE 18 PSF DRIFT SNOW LOAD ALONG ENTIRE LENGTH OF TRUSS AT T1. ALSO, APPLY ROOF TOP AND SUSPENDED POINT LOADS. WEIGHT AND LOCATION OF UNITS AS NOTED ARE SHOWN ON THE ROOF FRAMING PLAN AND ARE NOT INCLUDED IN THE ABOVE LOADING DIAGRAM. VERIFY THESE LOADS WITH MECHANICAL SUPPLIER BEFORE DESIGNING TRUSS.

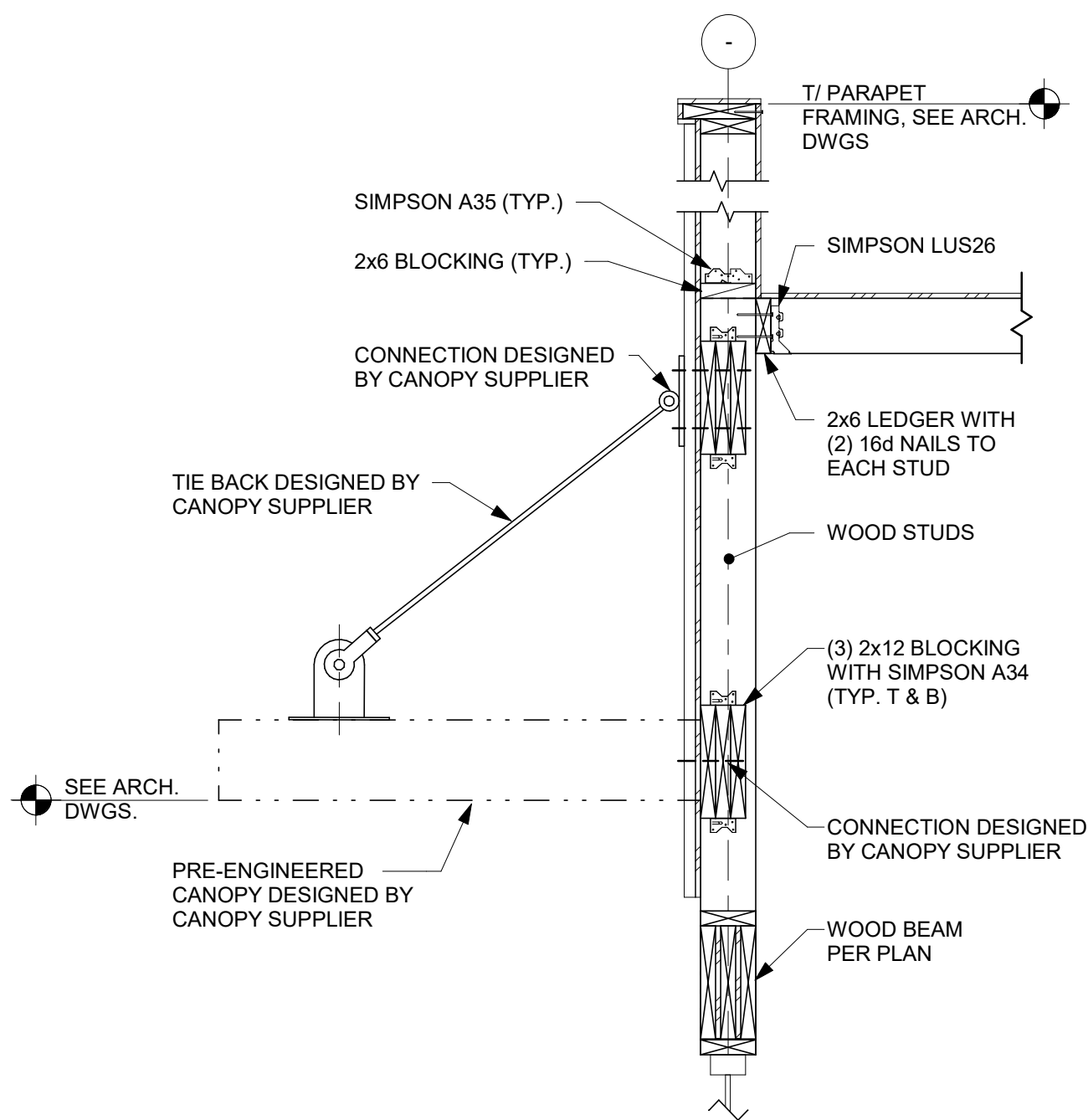
11 TRUSS LOADING DIAGRAM

Scale: 1" = 1'-0"



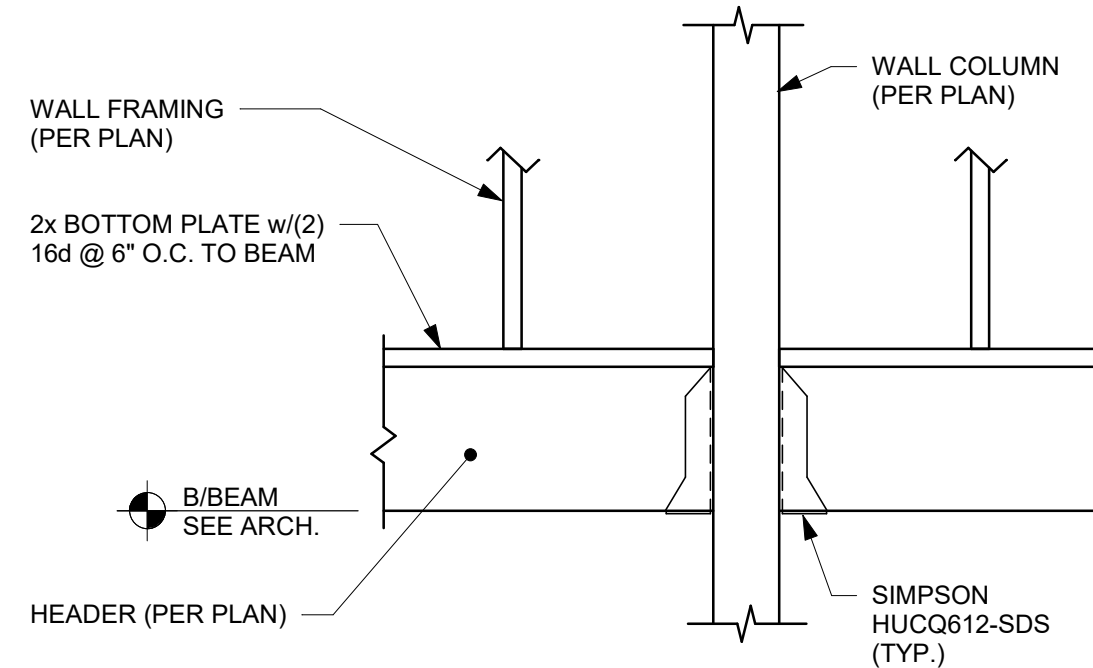
5 SECTION

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



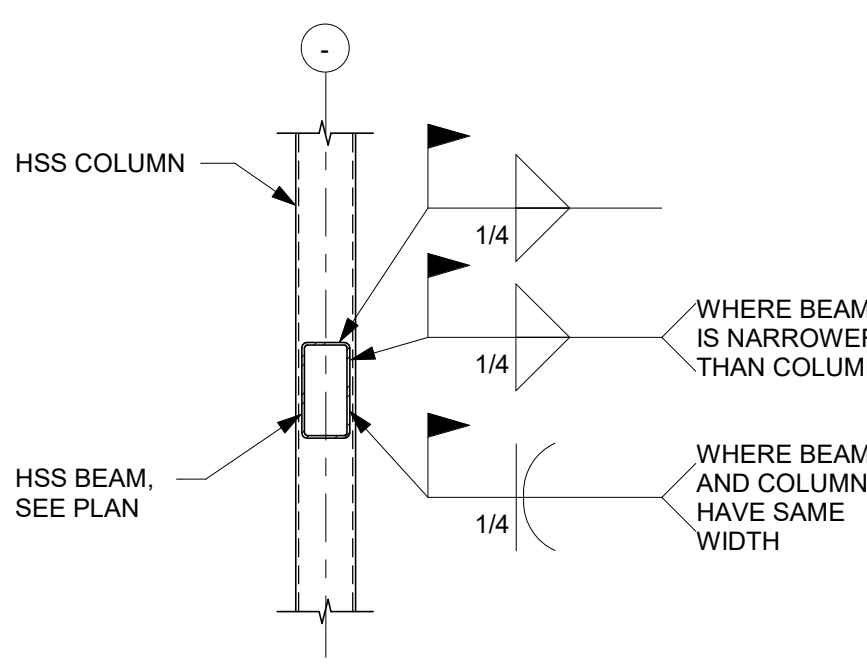
6 DRIVE-THRU CANOPY SECTION

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



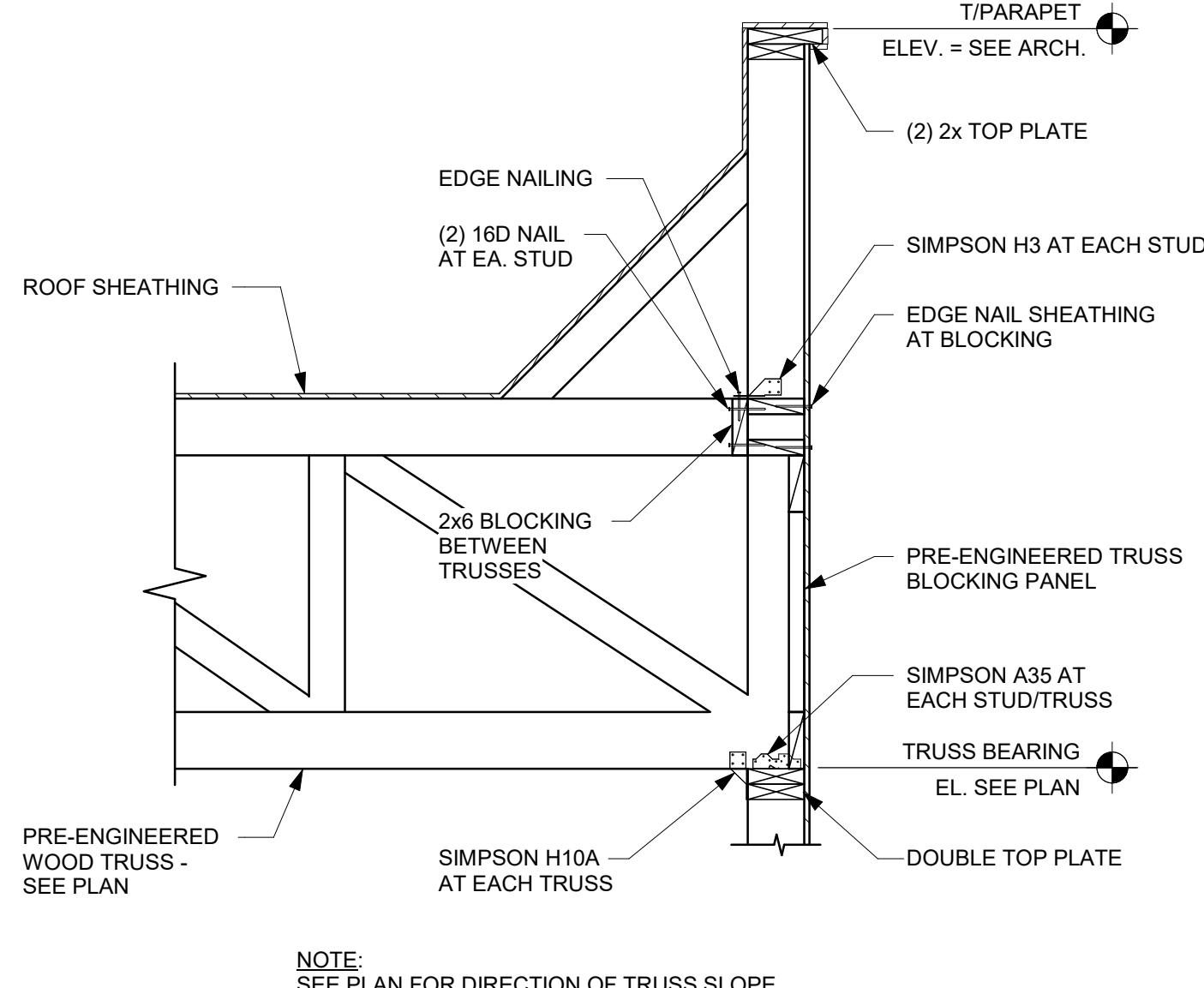
7 TYP. WOOD HEADER CONNECTION ABOVE STOREFRONT

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



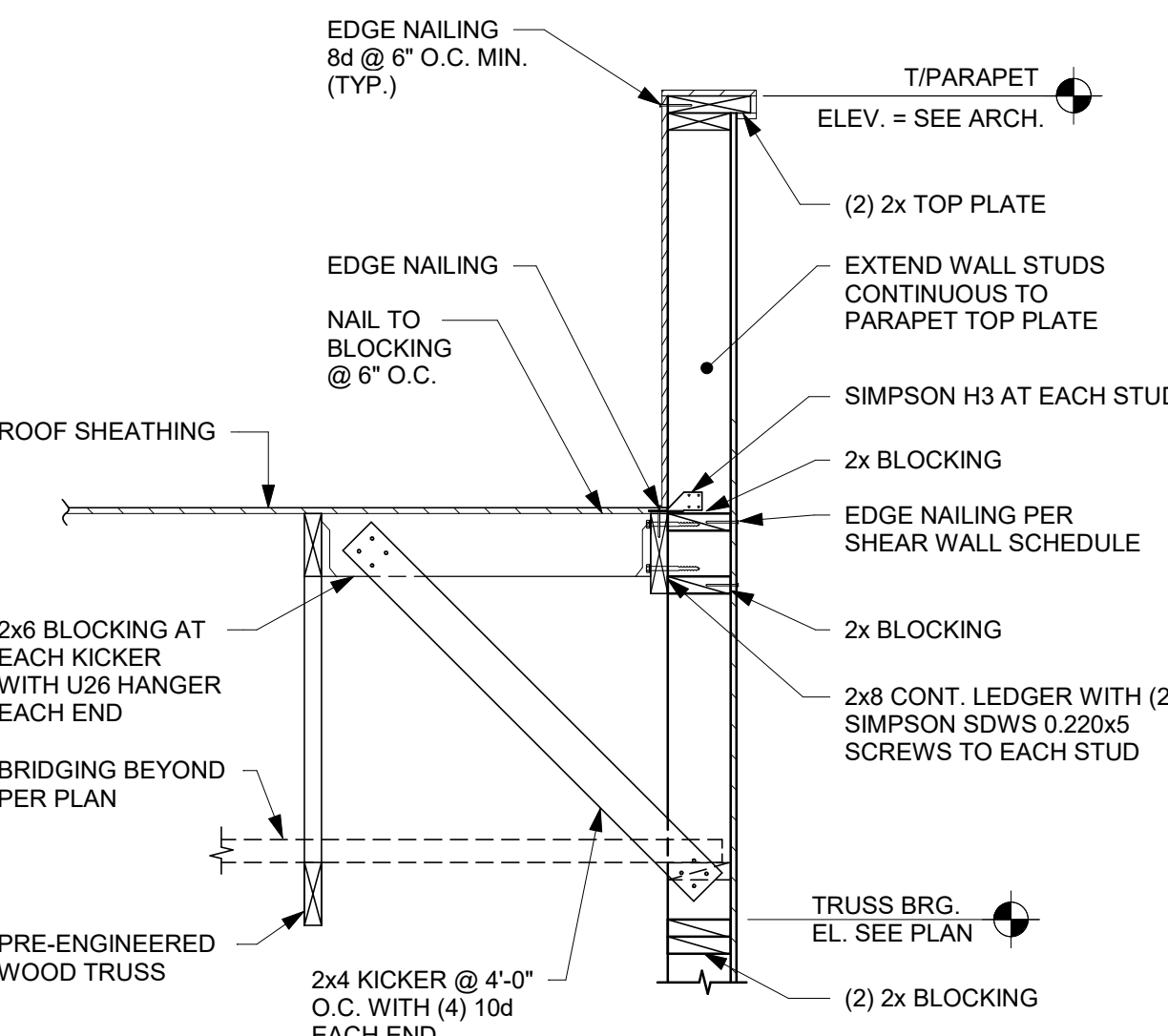
8 TYPICAL HSS CONN. TO COLUMN

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



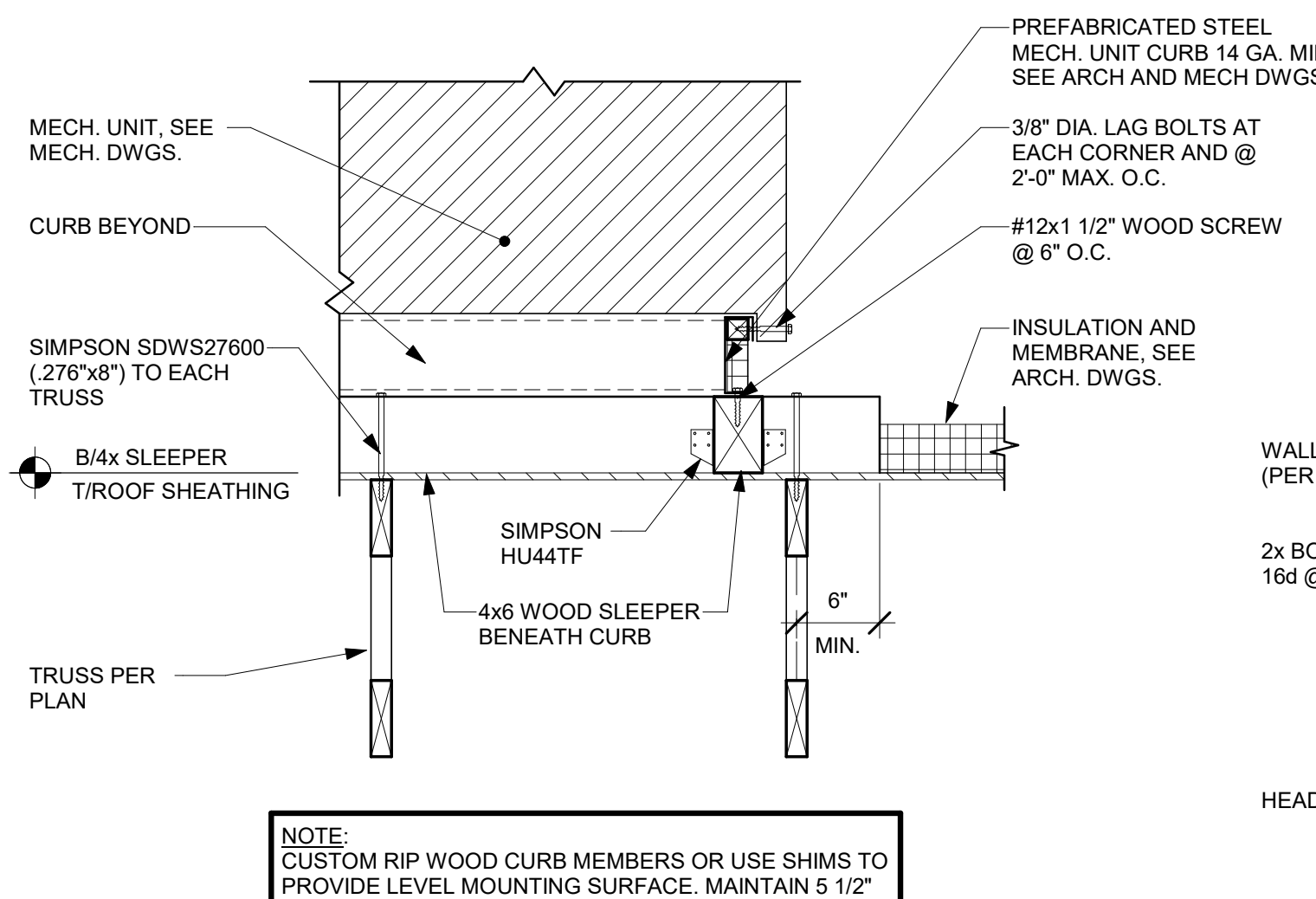
1 TYP. TRUSS PERPENDICULAR TO EXT. WALL

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



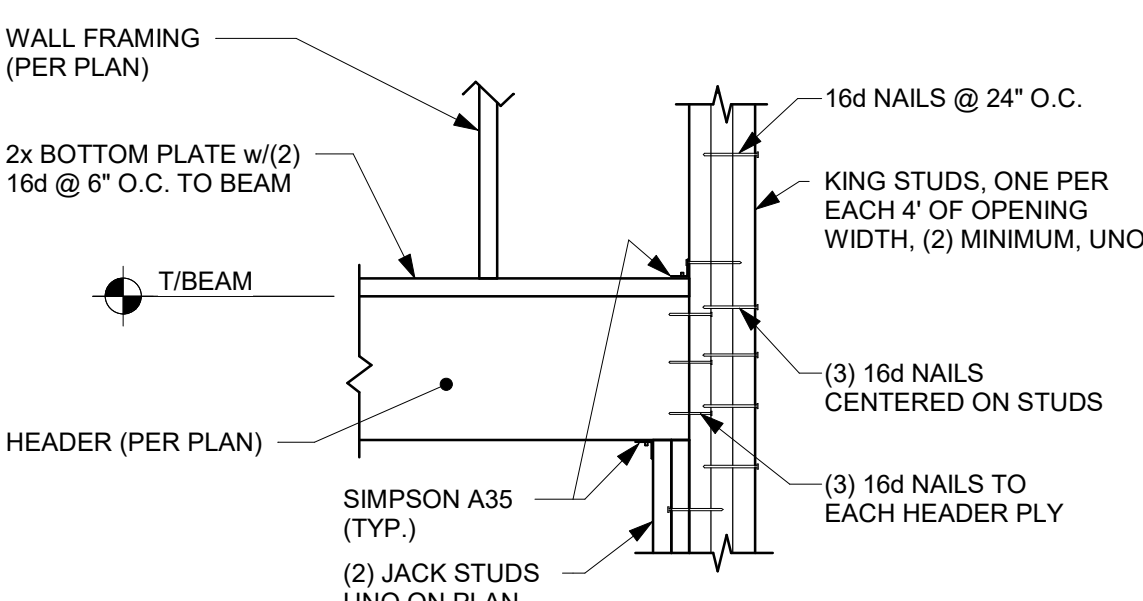
2 TYP. TRUSS PARALLEL TO EXT. WALL

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



3 MECHANICAL UNIT CONNECTION

Scale: 1" = 1'-0"



4 TYP. WOOD HEADER CONNECTION

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

DESCRIPTION
DATE
REV



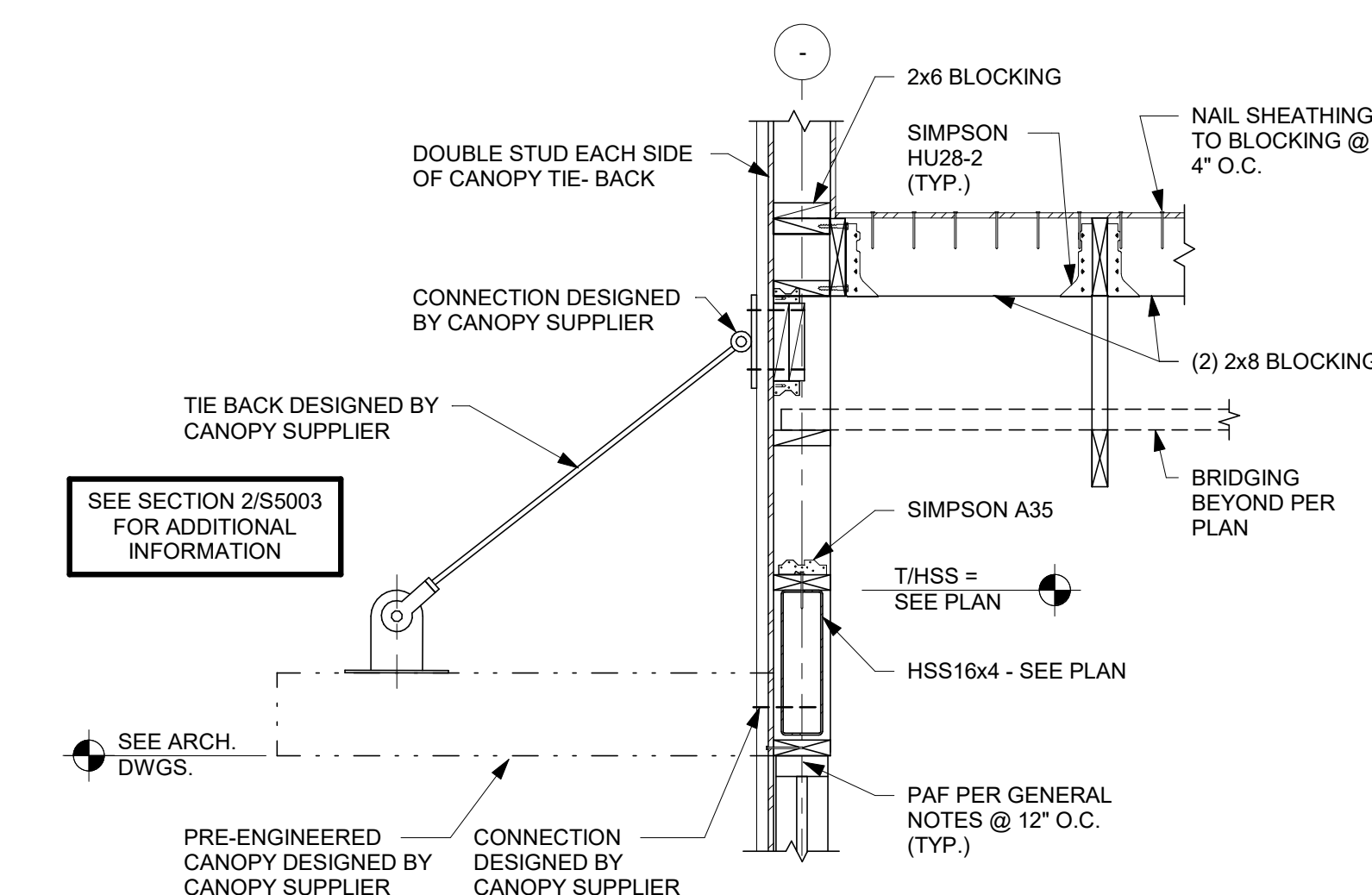
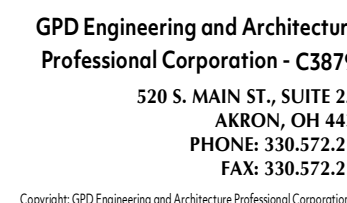
BENSON SHELL
12321 NC-210
BENSON, NC 27504

STRUCTURAL SECTIONS & DETAILS

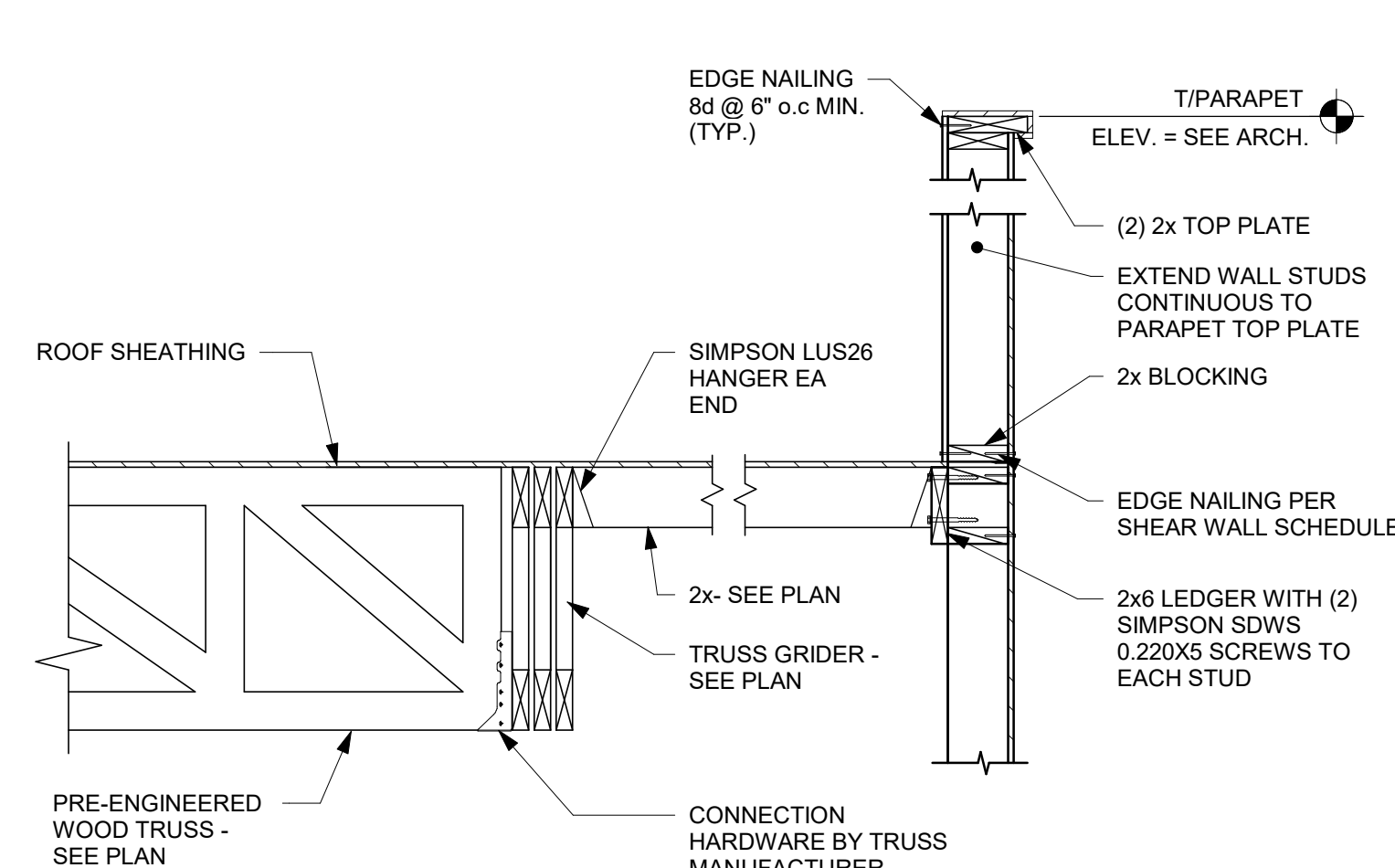
	DATE
PERMIT	-/-/-
BID	-/-/-
CONSTRUCTION	-/-/-
RECORD	-/-/-
PROJECT MANAGER	DESIGNER
AK	GM

JOB NO.
2021379.01

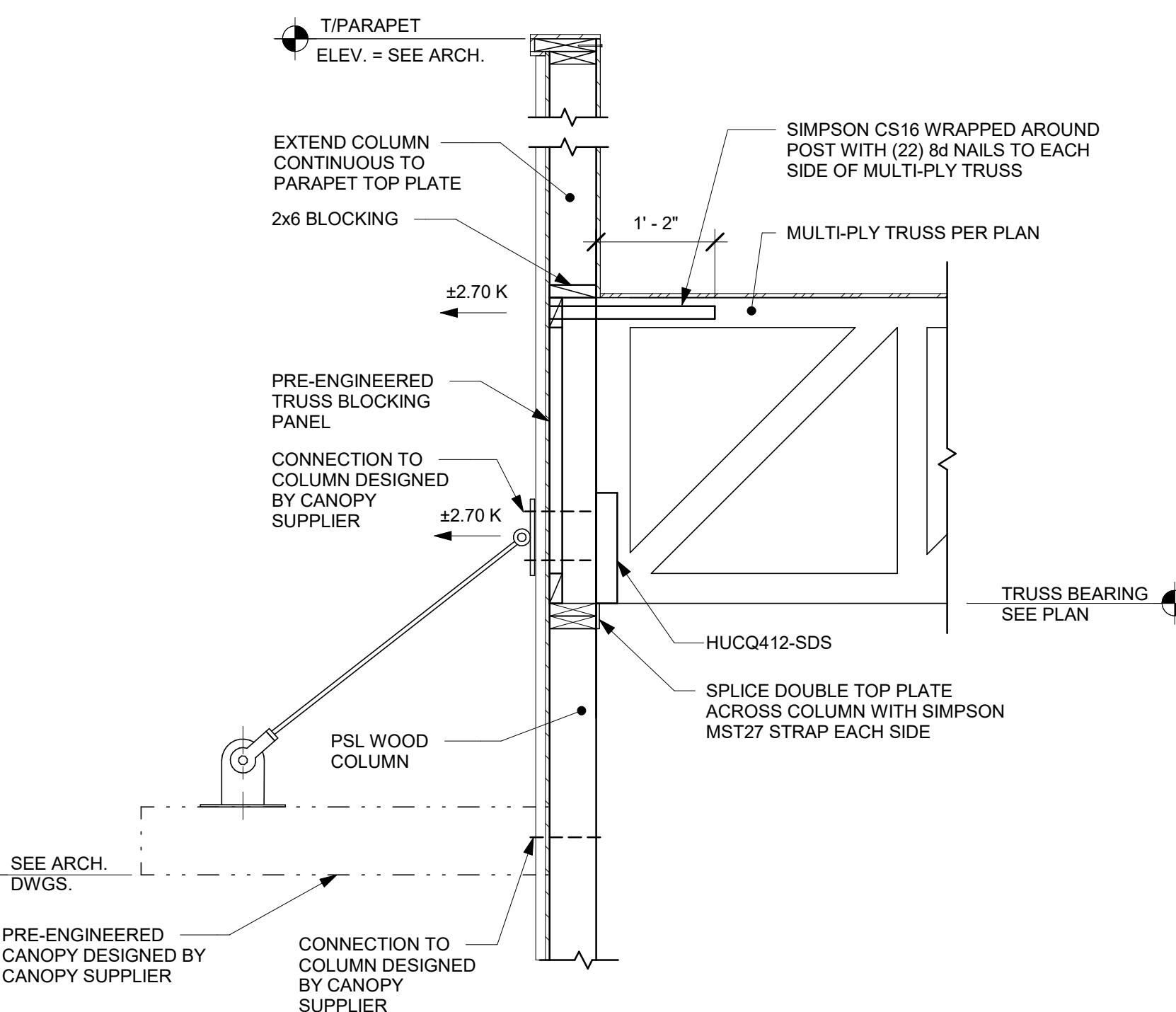
S5003



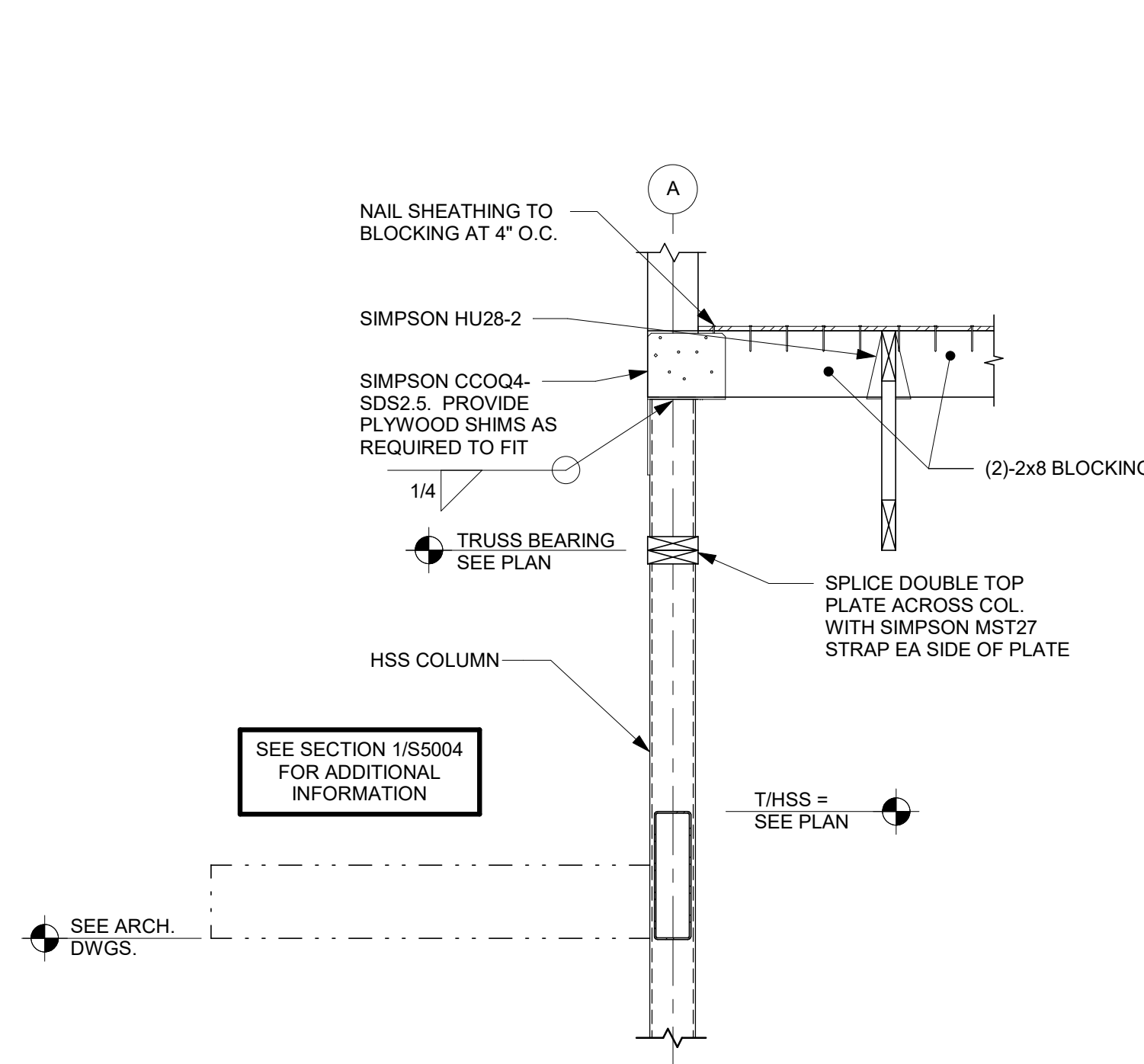
7 CANOPY SECTION AT HSS BEAM
Scale: 3/4" = 1'-0"



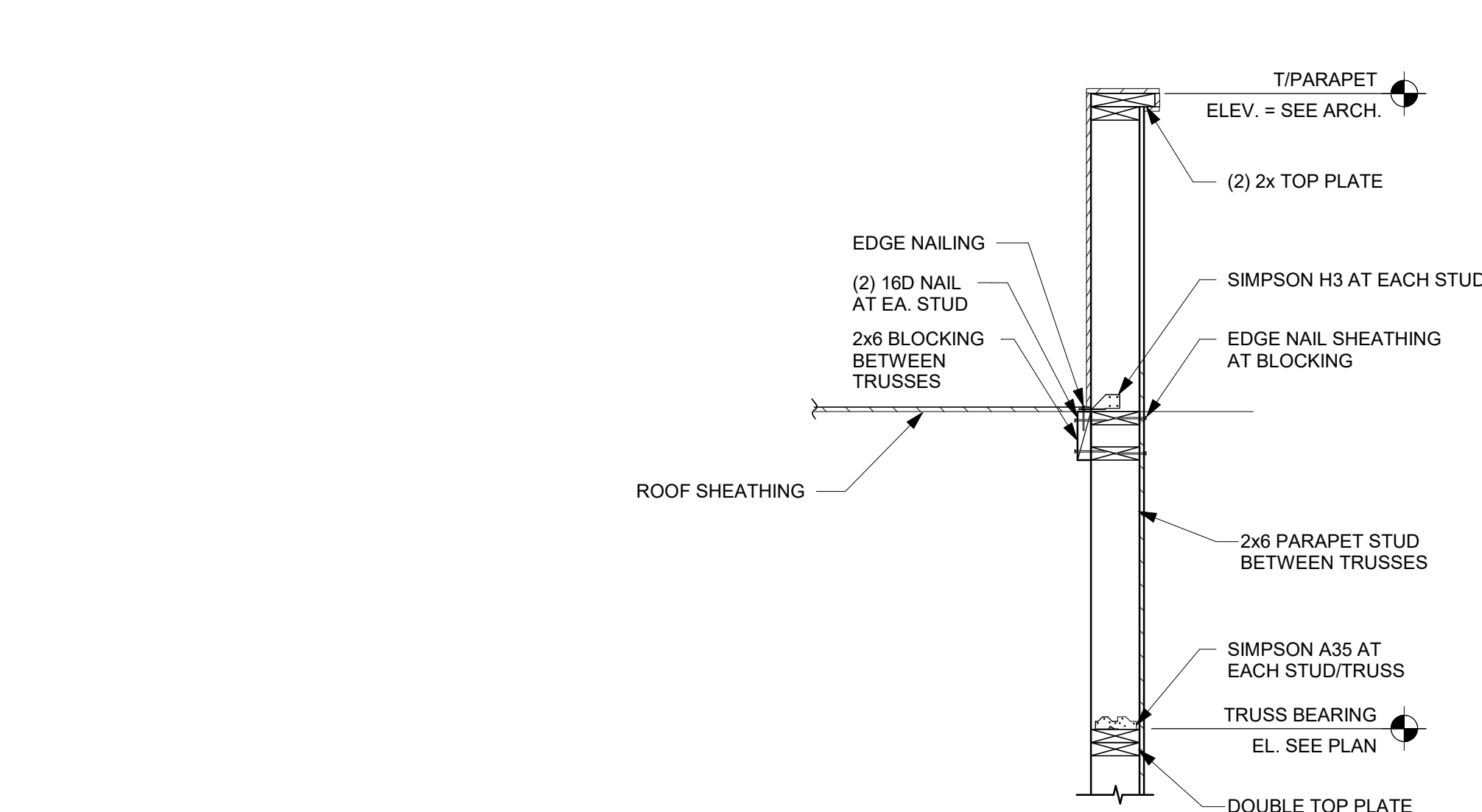
8 SECTION
Scale: 3/4" = 1'-0"



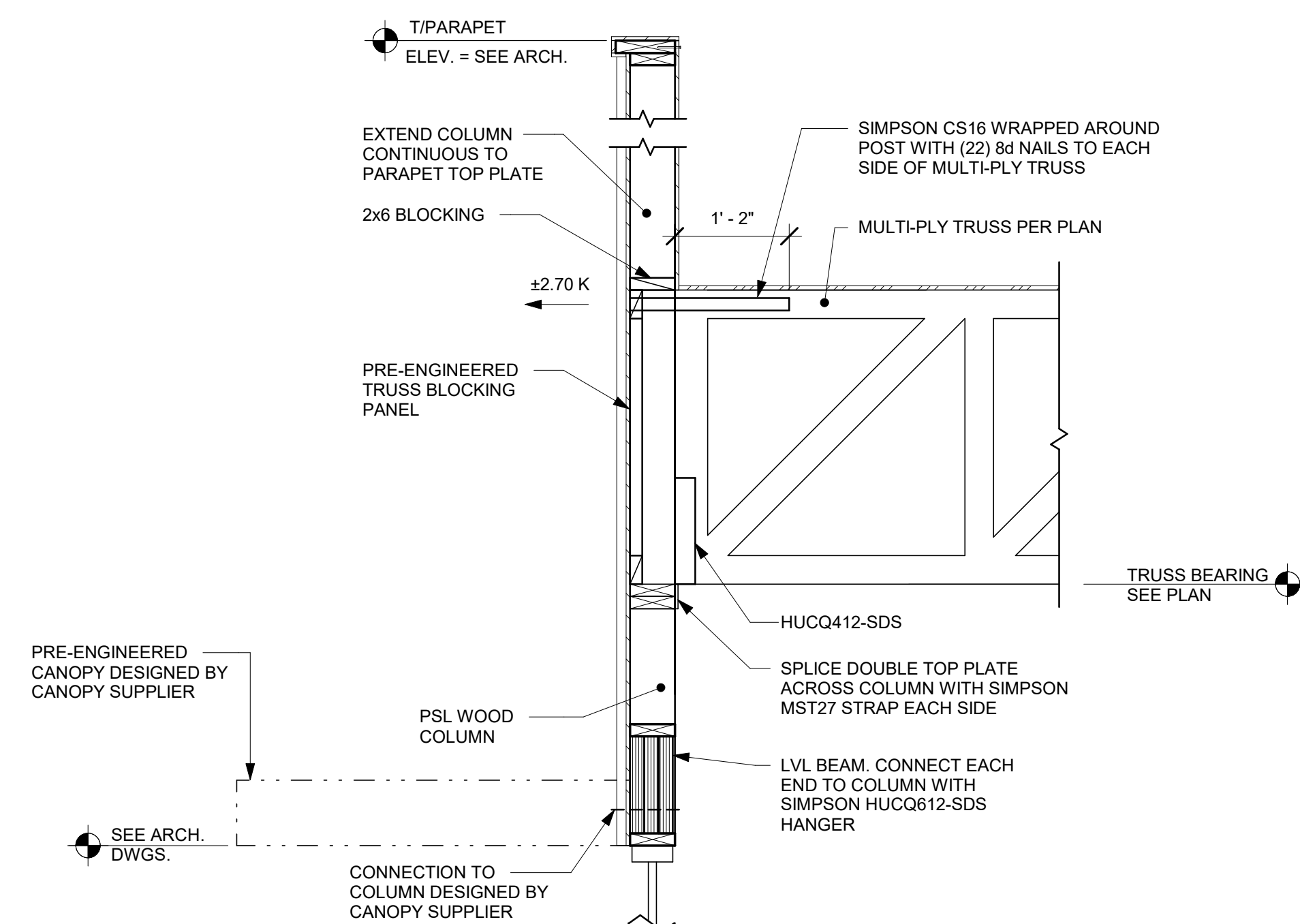
4 SECTION AT COLUMN IN WALL AT CANOPY TIEBACK
Scale: 3/4" = 1'-0"



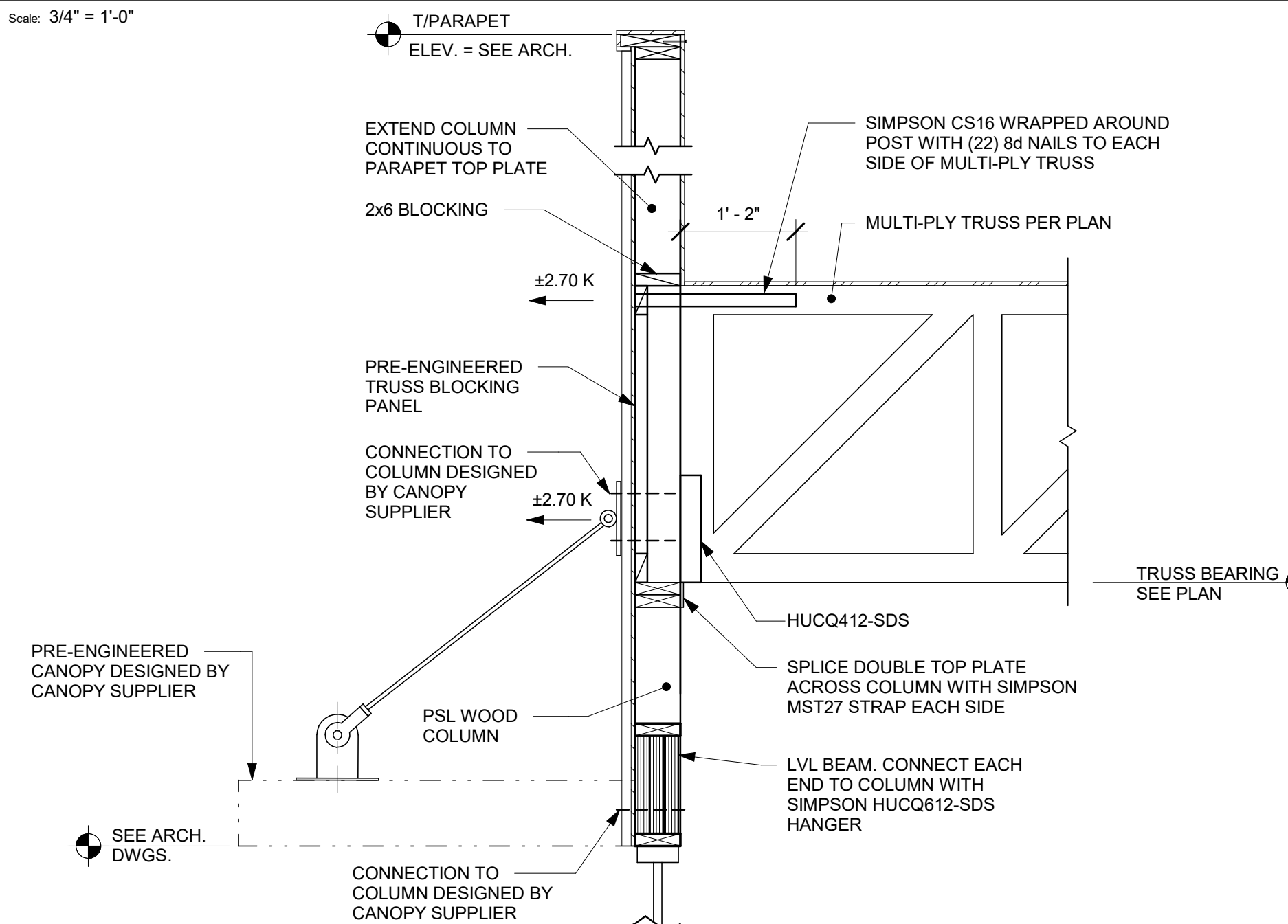
5 CANOPY SECTION AT STEEL COLUMN
Scale: $3/4" = 1'-0"$



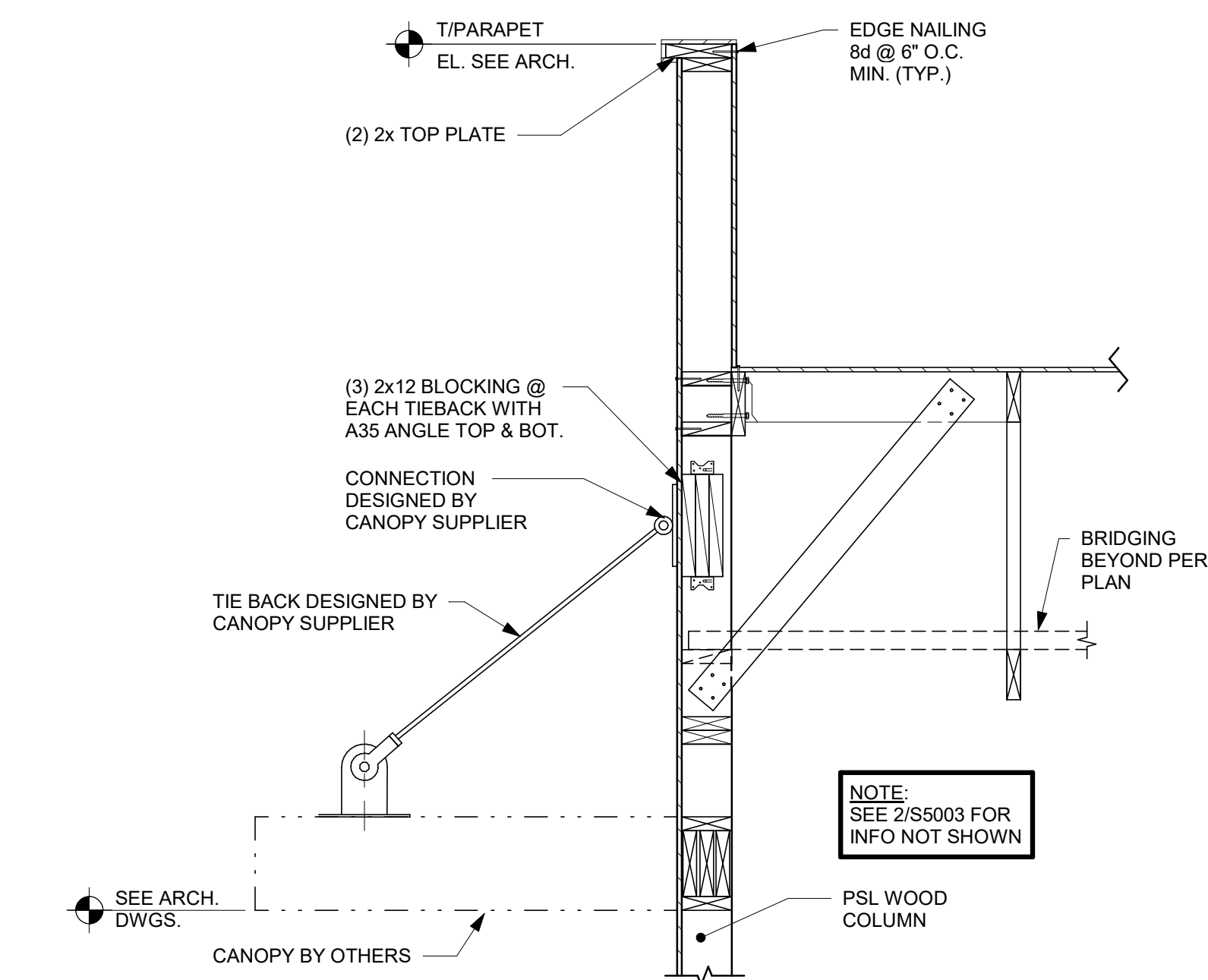
10 SECTION BTWN TRUSSES
Scale: 3/4" = 1'-0"



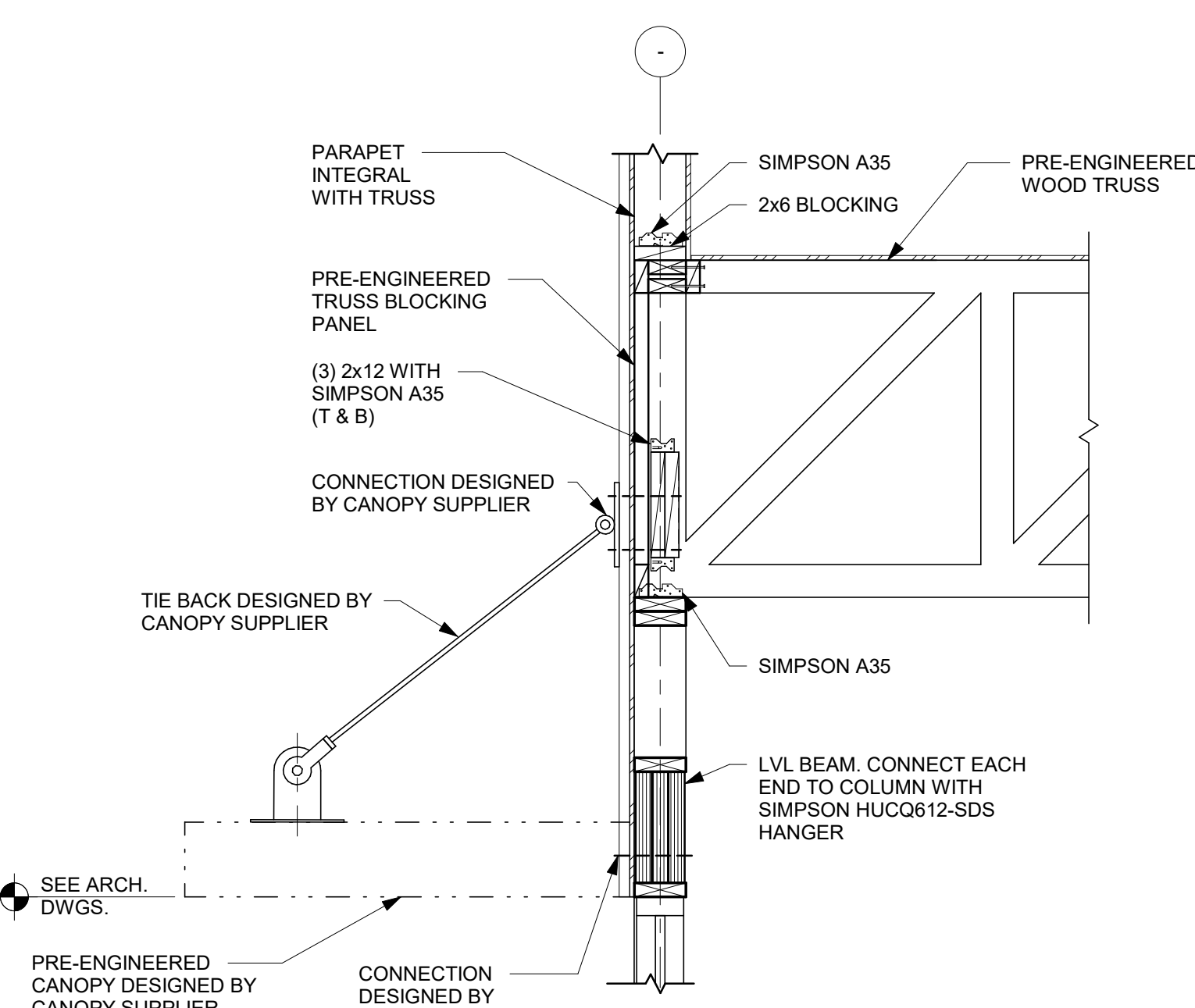
6 SECTION AT WOOD COLUMN
Scale: 3/4" = 1'-0" T/PAPE



3 SECTION AT COLUMN AT CANOPY TIEBACK ABOVE STOREFRONT
Scale: 3/4" = 1'-0"



1 CANOPY SECTION AT NON-BEARING WALLS
Scale: $3/4" = 1'-0"$



2 CANOPY SECTION AT LVL BEAM
Scale: 3/4" = 1'-0"

REV.	DATE	DESCRIPTION



BENSON SHELL
 12321 NC-210
 BENSON, NC 27504

CANOPY FRAMING SECTIONS AND
 DETAILS

	DATE
PERMIT	--/--/----
BID	--/--/----
CONSTRUCTION	--/--/----
RECORD	--/--/----

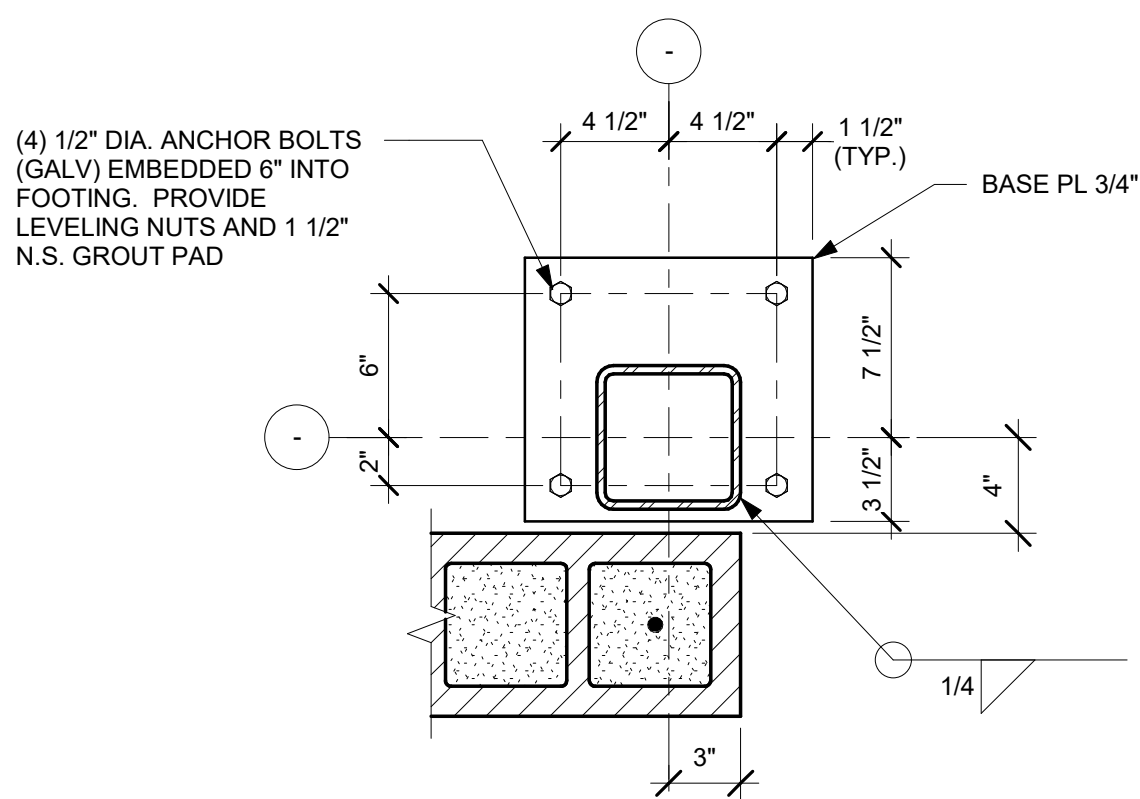
PROJECT MANAGER	DESIGNER
AK	GM

JOB NO.
2021379.01

S5004

GENERAL NOTES

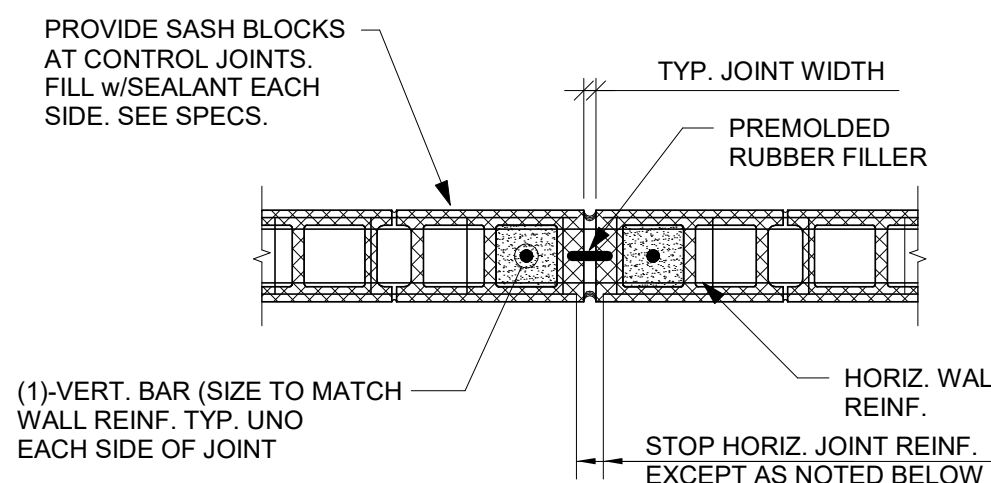
- FOR STRUCTURAL GENERAL NOTES & DESIGN CRITERIA, REFERENCE SHEETS S0001 AND S0002.
- SEE CIVIL DRAWINGS FOR FINISH GRADE.
- COORDINATE ALL DIMENSIONS AND DETAILS WITH ARCHITECTURAL DRAWINGS.
- SEE SITE PLAN FOR LOCATION.
- FOOTINGS ARE DESIGNED BASED ON AN ALLOWABLE SOIL BEARING PRESSURE OF 2500 PSF.



NOTE: SEE PLAN FOR ORIENTATION

5 GATE POST BASE DETAIL (2 REQD.)

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

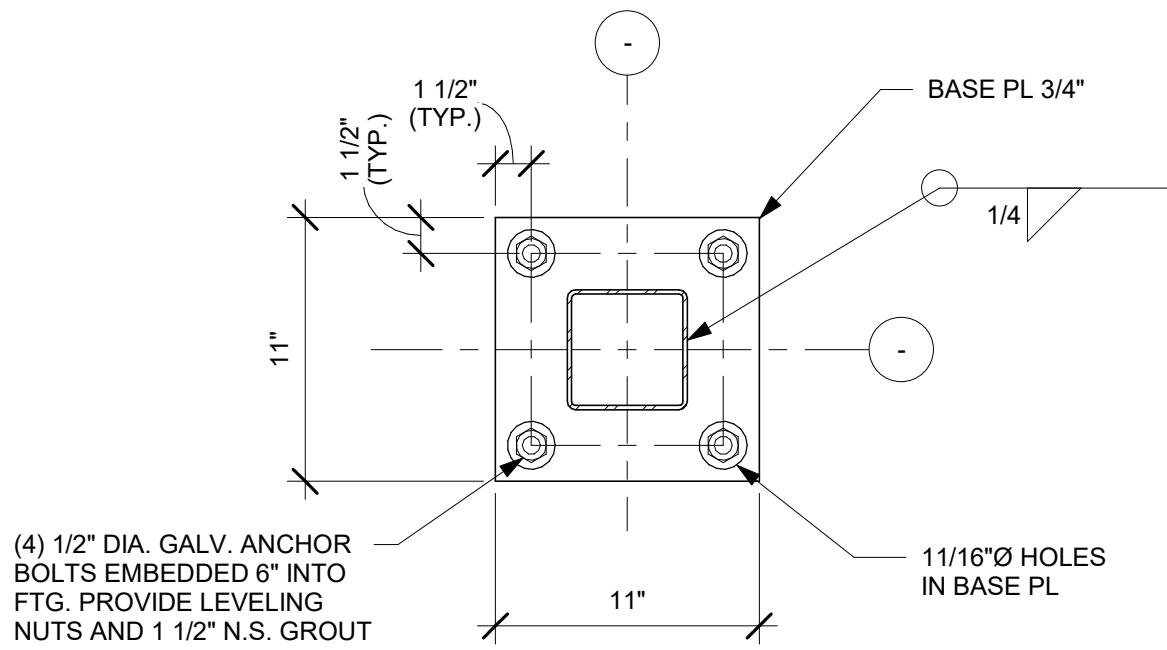


NOTES:

- OBTAIN ARCHITECT'S APPROVAL OF JOINT LOCATIONS.
- MAX. SPACING OF JOINTS: PANEL LENGTH/HEIGHT = 1.5 MULTIPLIED WALL HEIGHT.
- HORIZONTAL BOND BEAM WALL REINFORCING CONTINUES THROUGH JOINT.

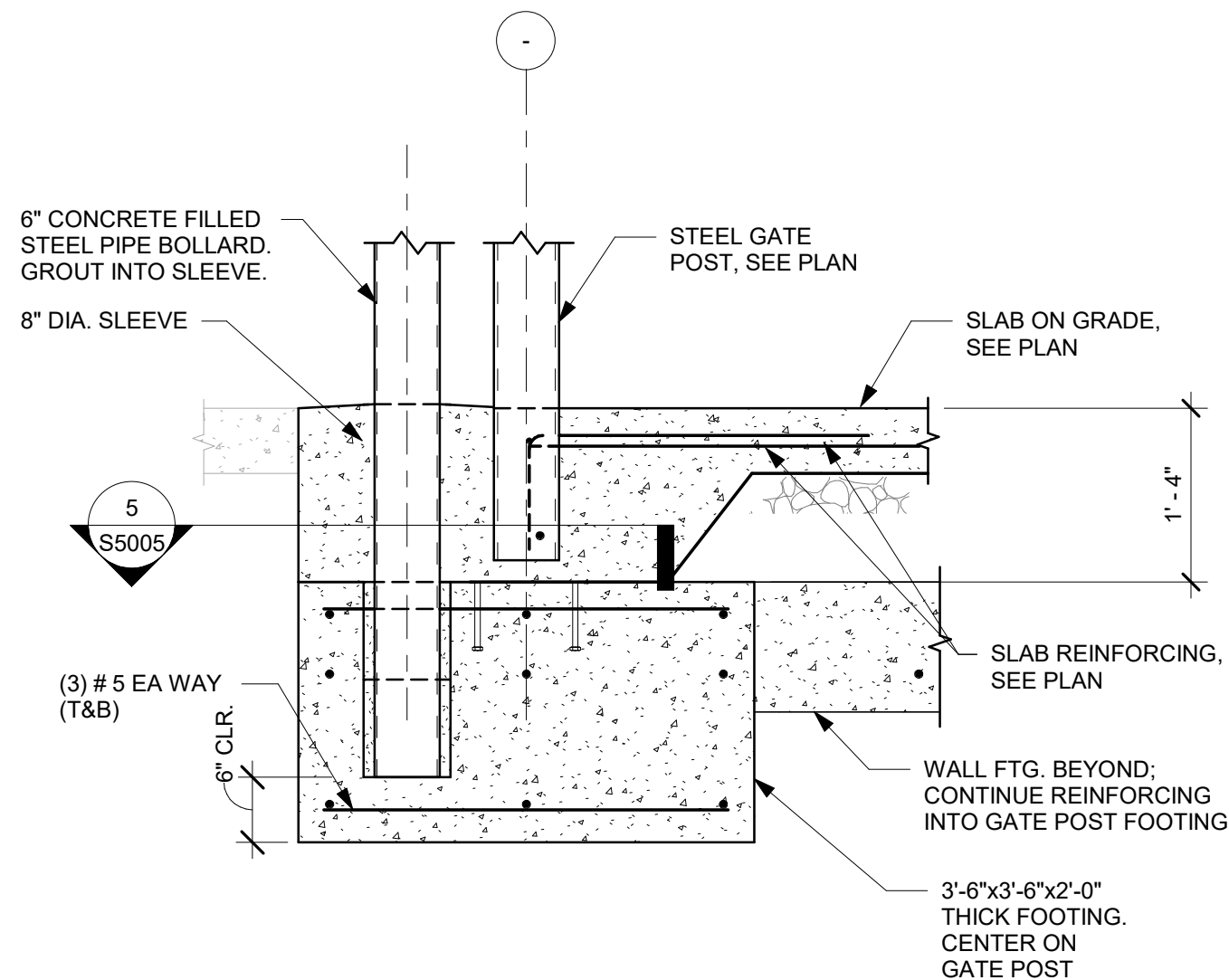
6 TYPICAL MASONRY CONTROL JOINT

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



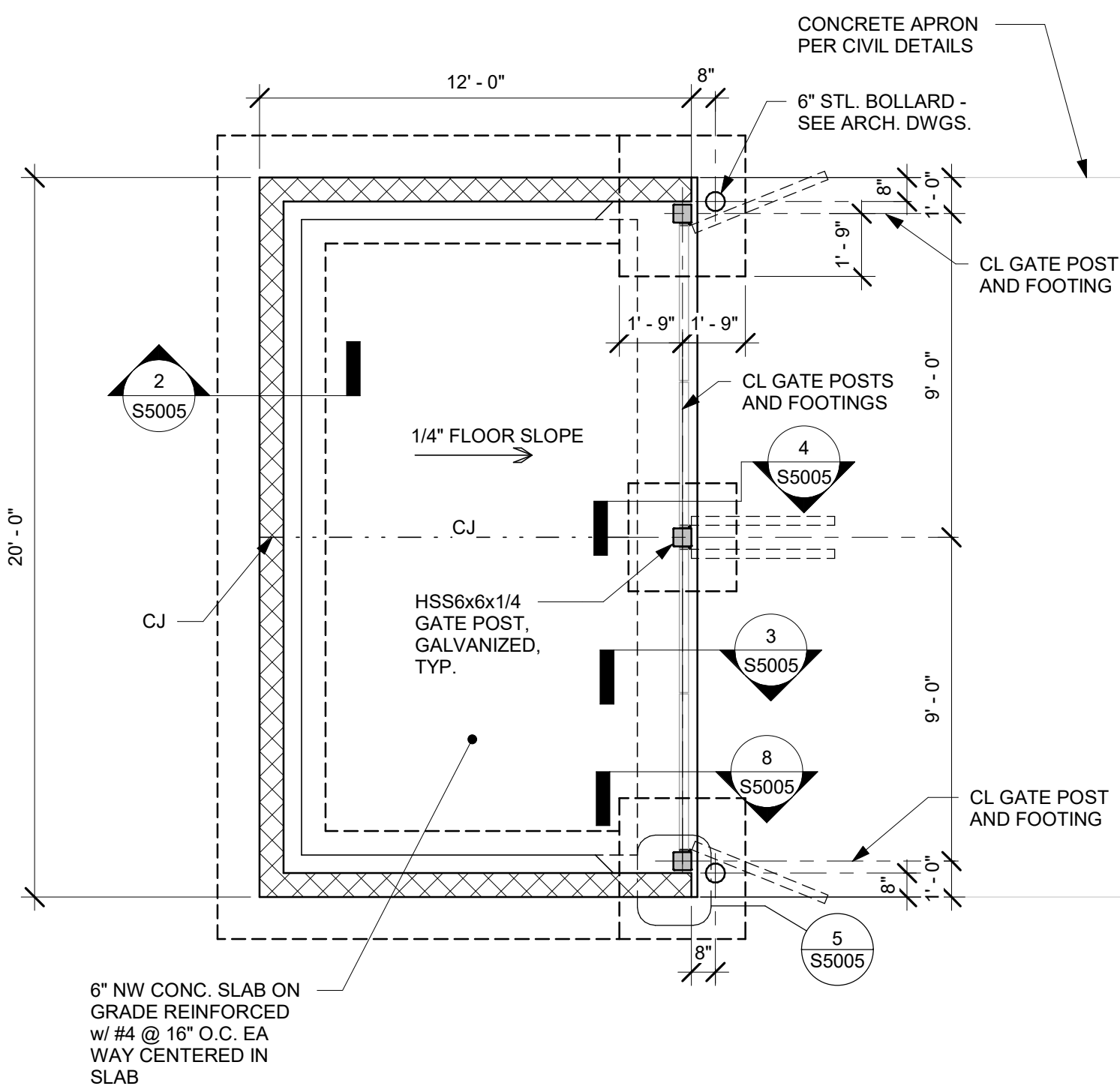
7 GATE POST BASE DETAIL

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



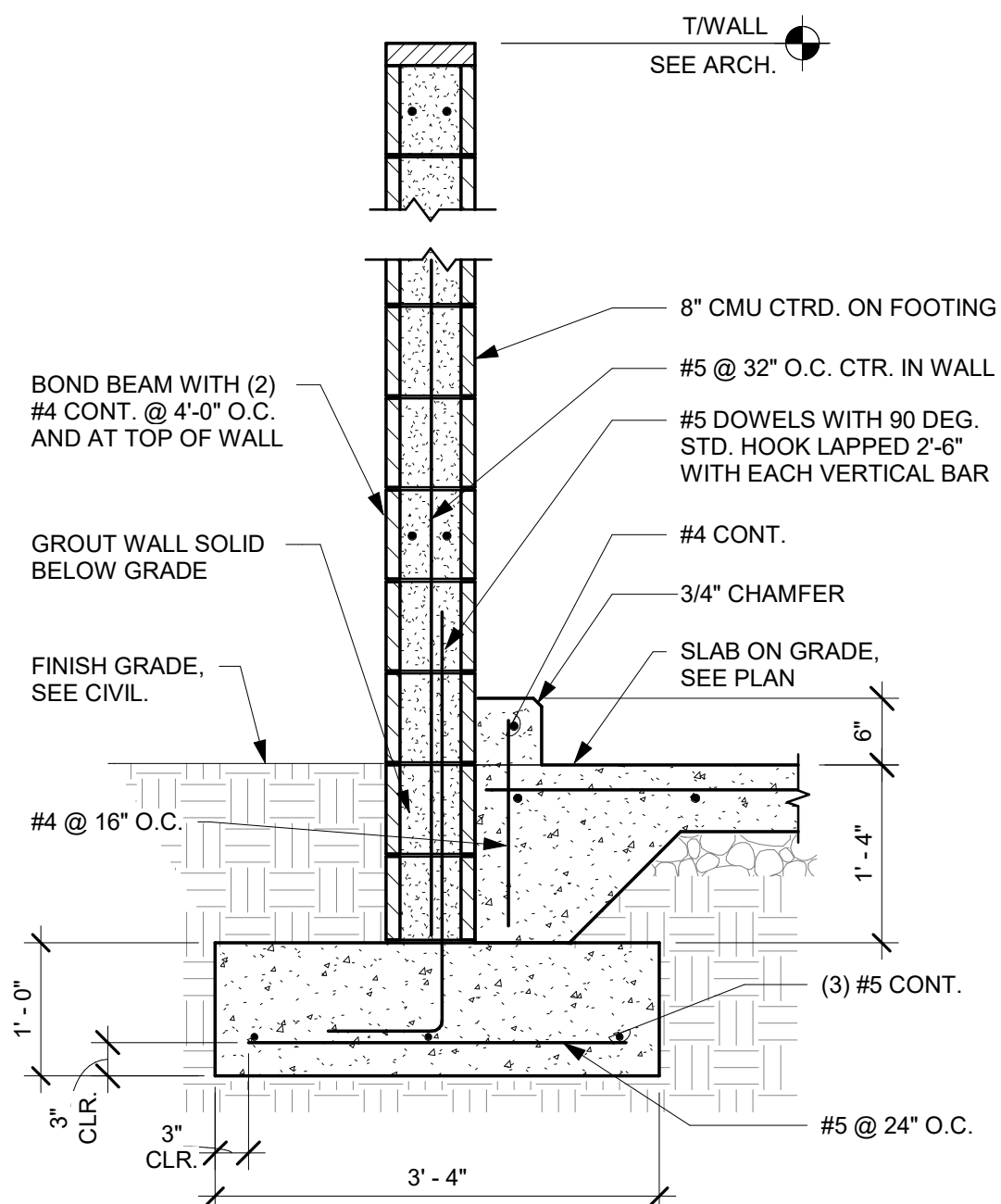
8 SECTION AT GATE POST w/ BOLLARD

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



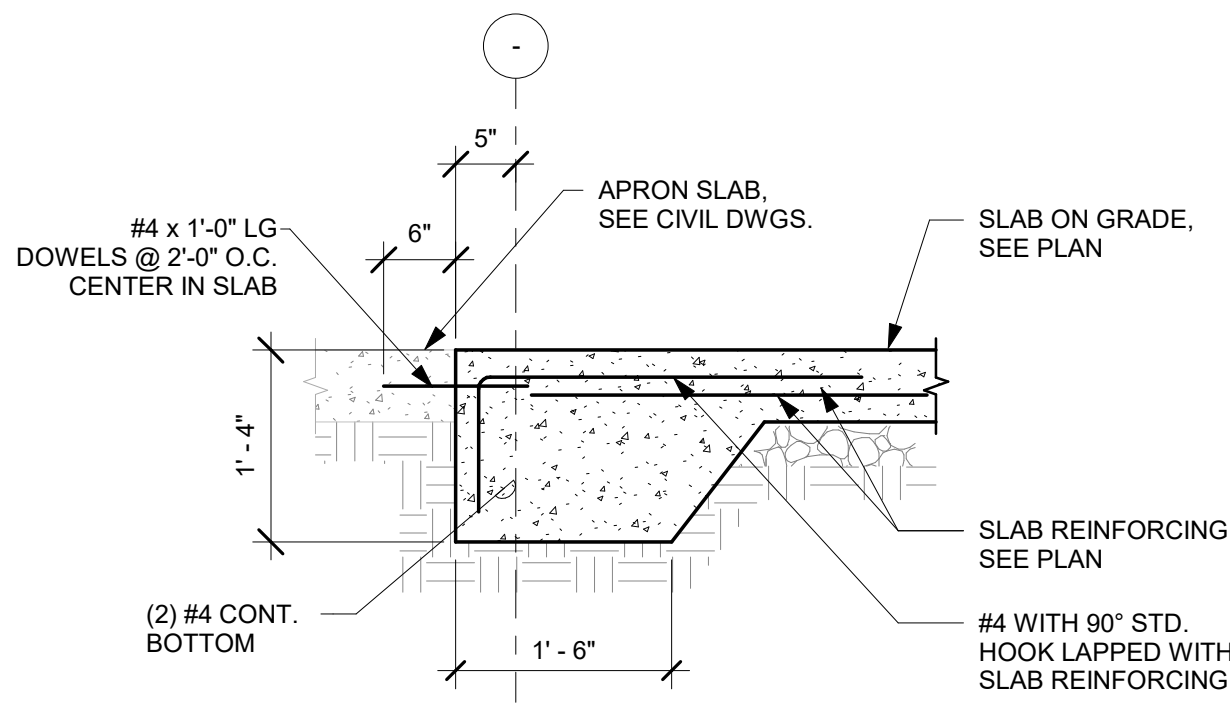
1 FOUNDATION PLAN

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



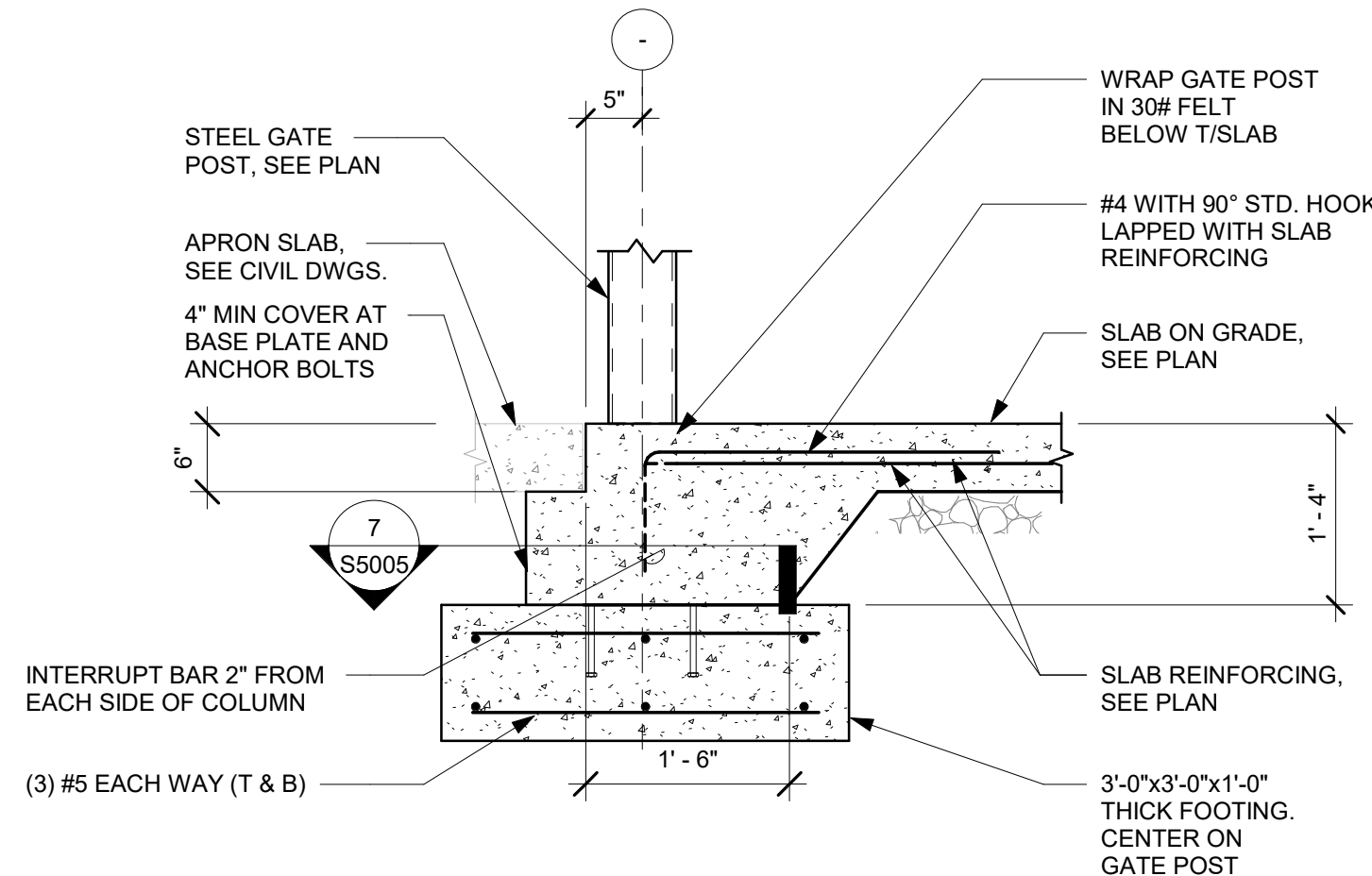
2 SECTION AT TRASH ENCLOSURE WALL

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



3 SECTION AT SLAB EDGE

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



4 SECTION AT GATE POST

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

REV.	DATE	DESCRIPTION



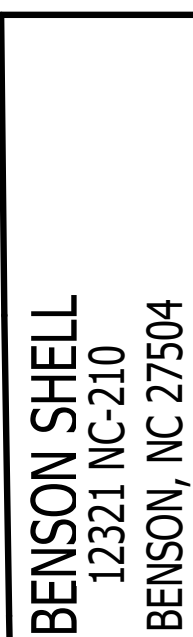
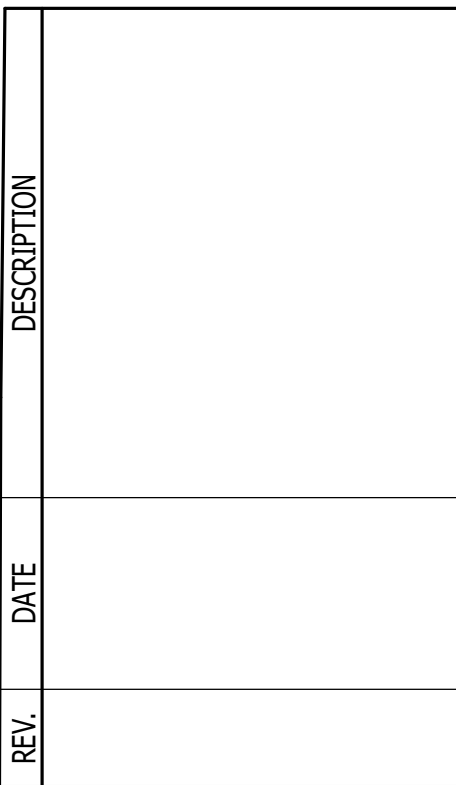
BENSON SHELL
12321 NC-210
BENSON, NC 27504
DUMPSTER ENCLOSURE STRUCTURAL
PLANS AND DETAILS

PERMIT	DATE
BID	
CONSTRUCTION	
RECORD	

PROJECT MANAGER	DESIGNER
AK	GM

JOB NO.
2021379.01

S5005



	DATE
PERMIT	--/------
BID	--/------
CONSTRUCTION	--/------
RECORD	--/------

JOB NO.
2021379.01

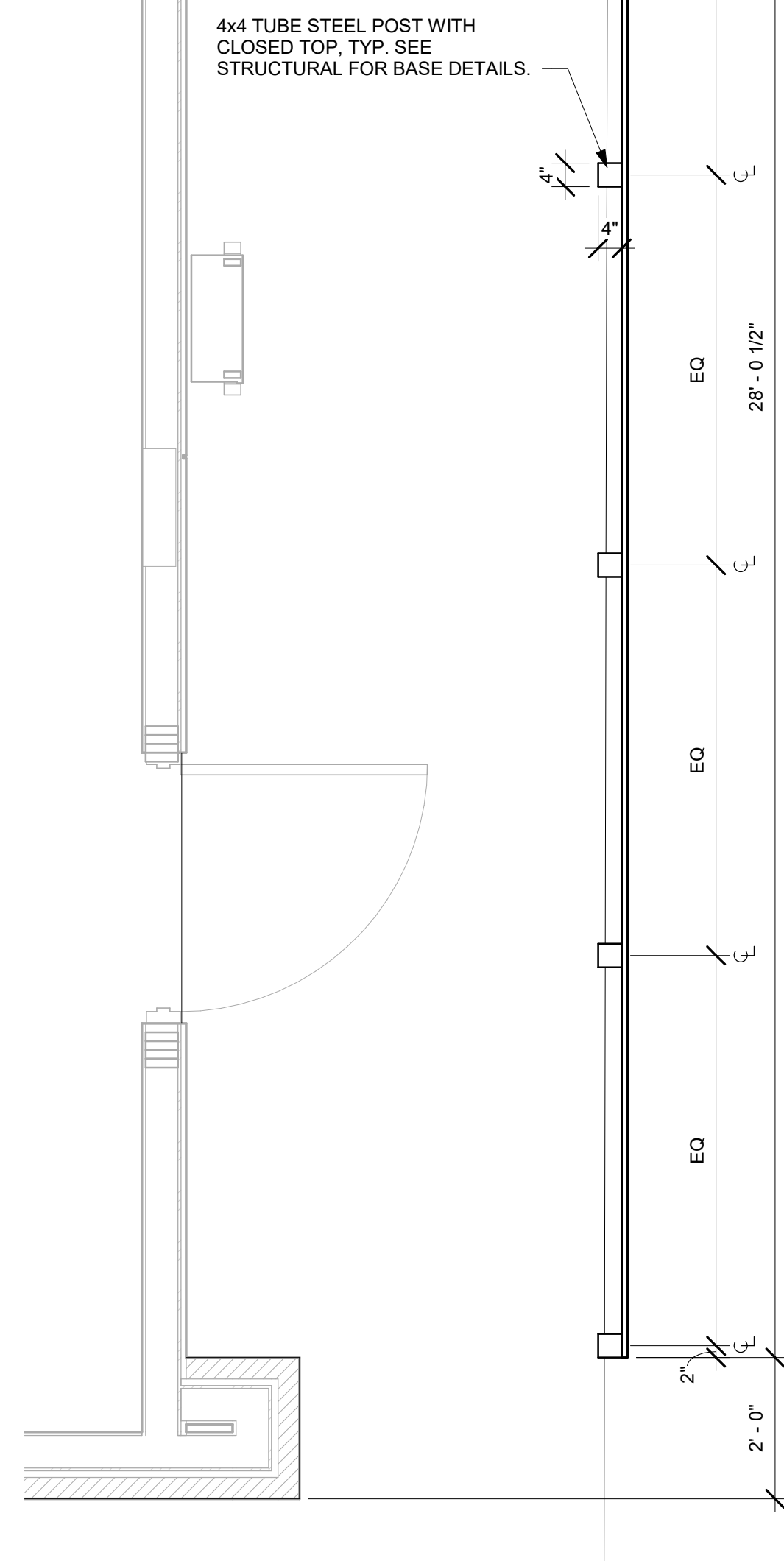
3 DTE 5-PANEL MENU BOARD BASE PLATE

- 7 EQUIPMENT SCREENING DETAIL**
Scale: 3/4" = 1'-0"



S5007





14 Scale: 1/2" = 1'-0"



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



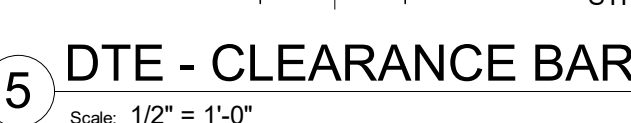
Scale: 1/2" = 1'-0"



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



13 Scale: 1/4" = 1'-0"



5) Scale: $1/2" = 1'-0"$



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



3 Scale: 1/2" = 1'-0"



4. Scale: $1/2" = 1'-0"$



9 Scale: 1/2" = 1'-0"



8 Scale: 1/2" = 1'-0"



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

No. 52715
 NORTH CAROLINA
 AKRON, OH

12/03/2021

MARK JOPEK
REGISTERED ARCHITECT
10433
NORTH CAROLINA
ARCHITECTS

Q. D. J. P. K. *IX

BENSON SHELL
 12321 NC-210
 BENSON, NC 27504

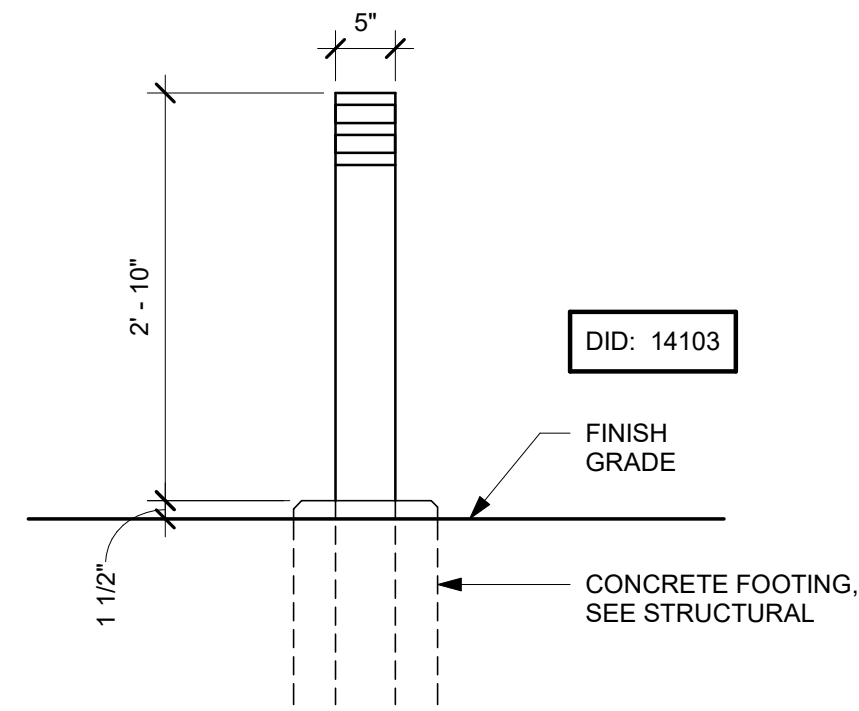
	DATE
PERMIT	12/03/2021
BID	--/--/----

PROJECT MANAGER	DESIGNER
AK	DB

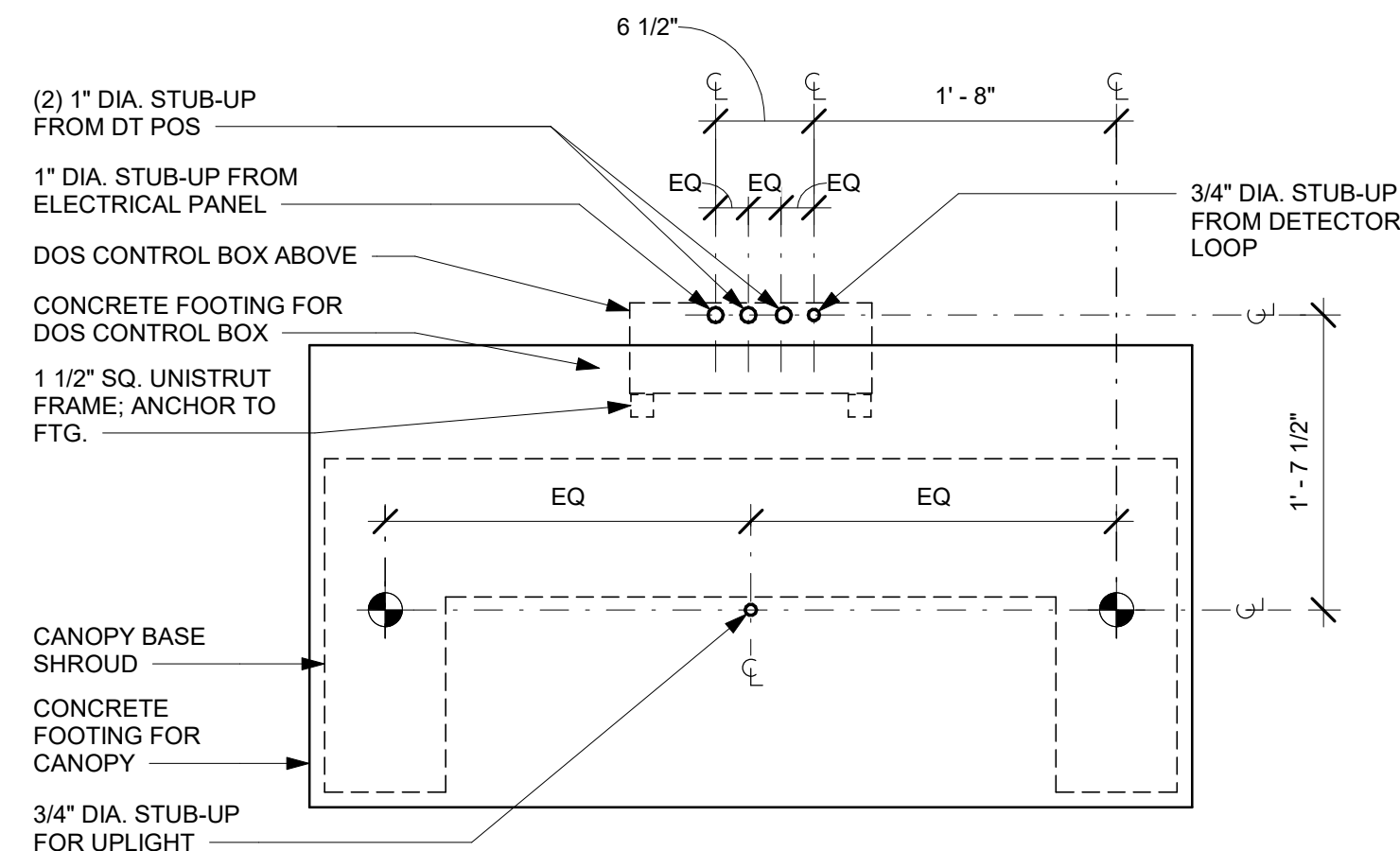
JOB NO.
2021379.01

A0002

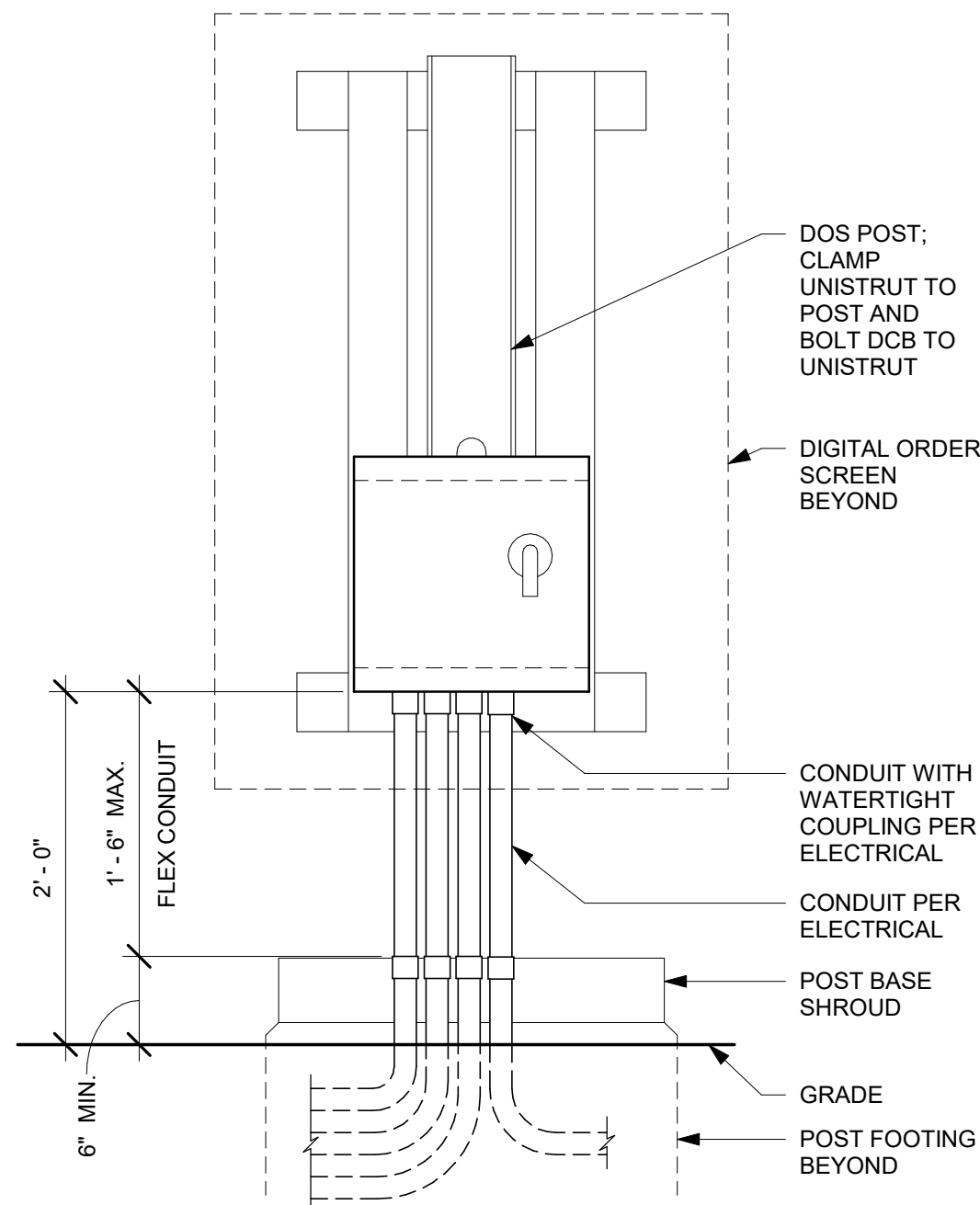
NOTES:
REFERENCE STRUCTURAL DRAWINGS FOR FOUNDATION DESIGN.
ANCHOR BOLT DESIGN BY SIGN VENDOR. FABRICATION SHOP DRAWINGS TO BE SUBMITTAL FOR AHJ APPROVAL BY SIGN VENDOR.
REFER TO TENANT DRAWINGS FOR FINAL LOCATION OF DRIVE-THRU EQUIPMENT, BOLLARDS, SIGNAGE, AND WAYFINDING GRAPHICS.



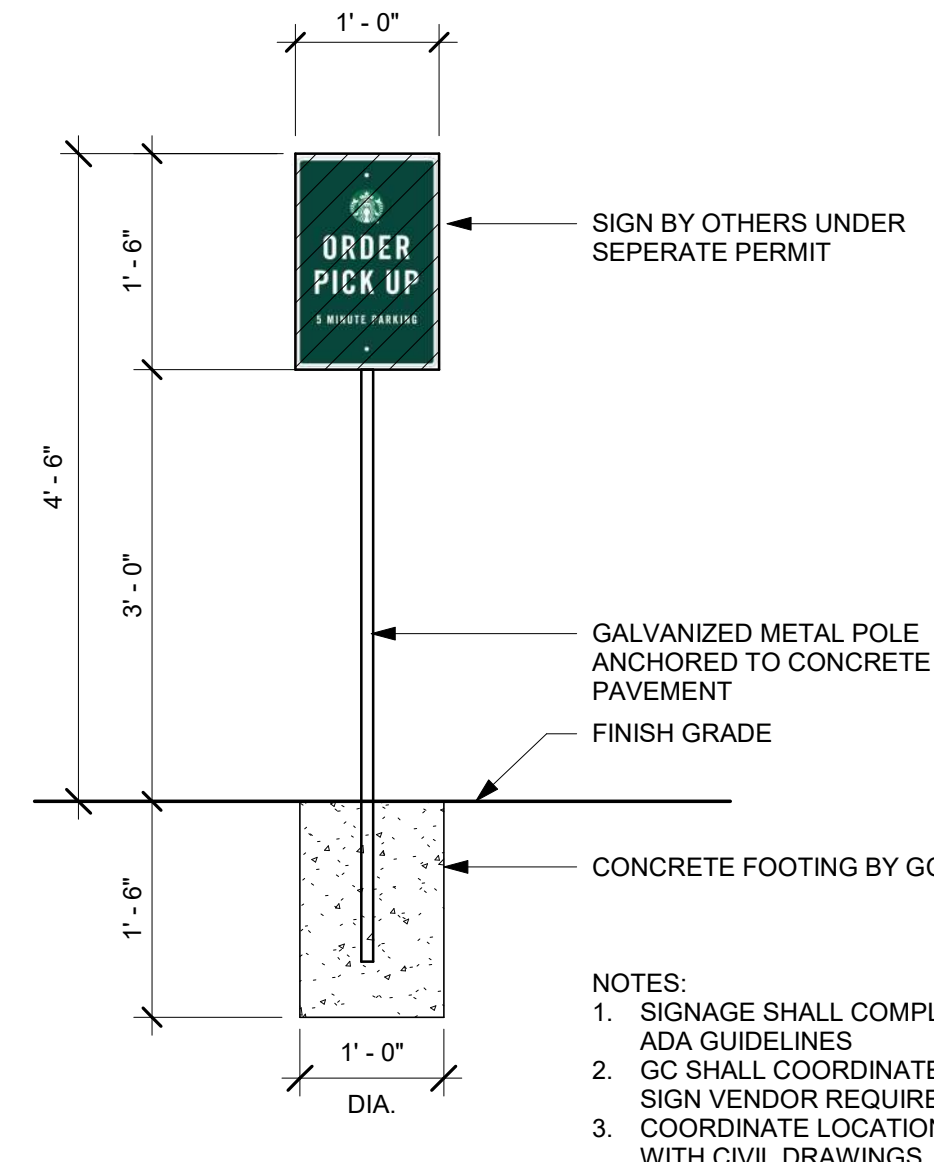
8 DTE - NON-ILLUMINATED BOLLARD
Scale: 3/4" = 1'-0"



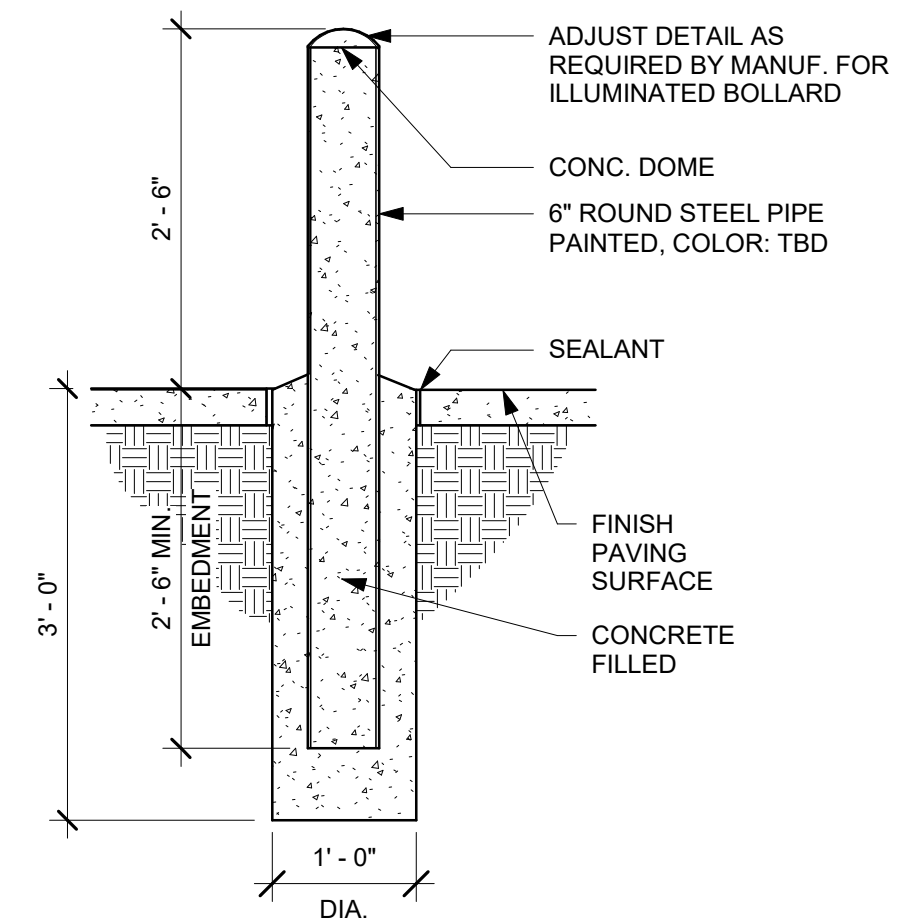
3 DTE - DOS CONTROL BOX CONDUIT STUB-UPS AT CANOPY
Scale: 1" = 1'-0"



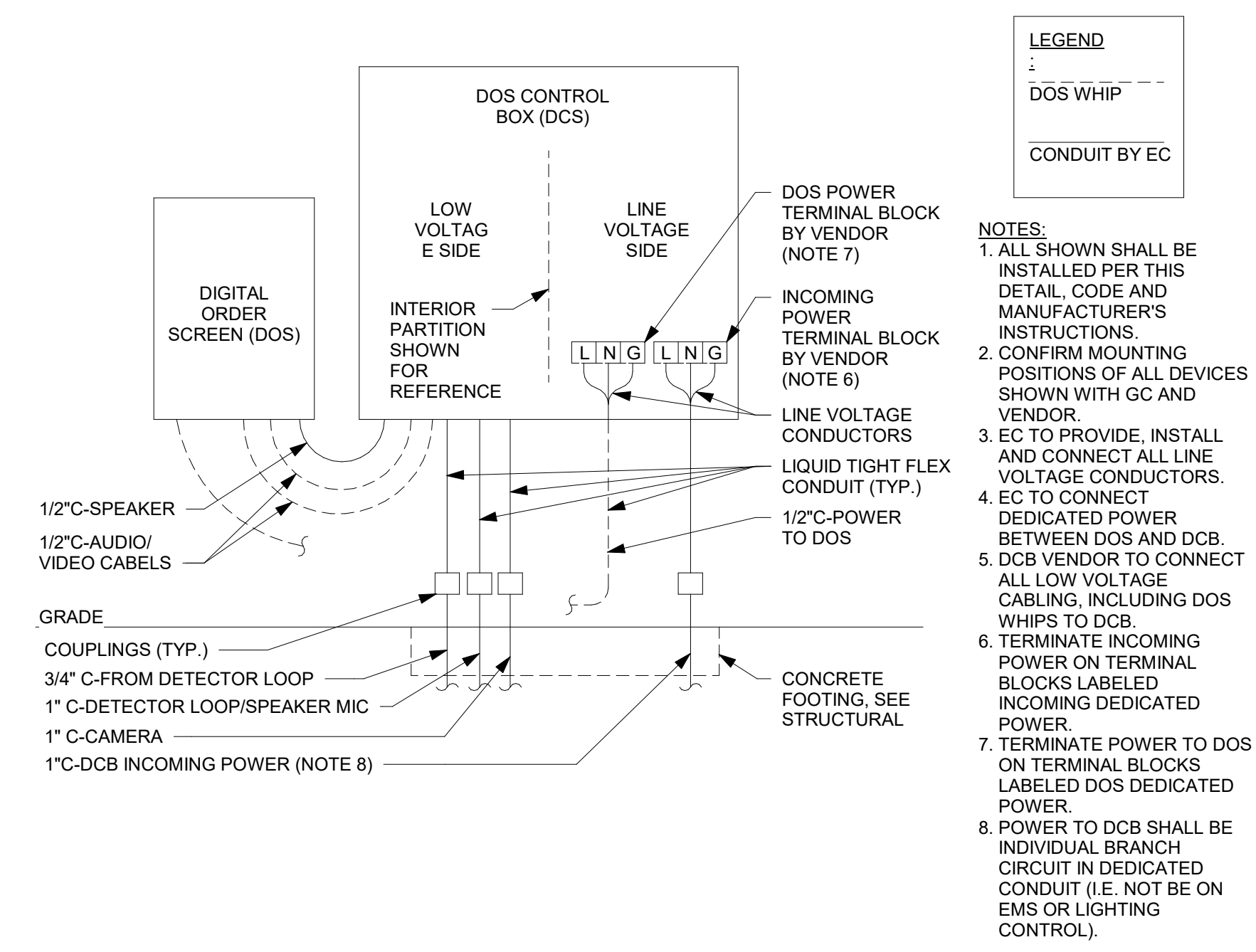
4 DOS CONTROL BOX ON DOS POST
Scale: 1" = 1'-0"



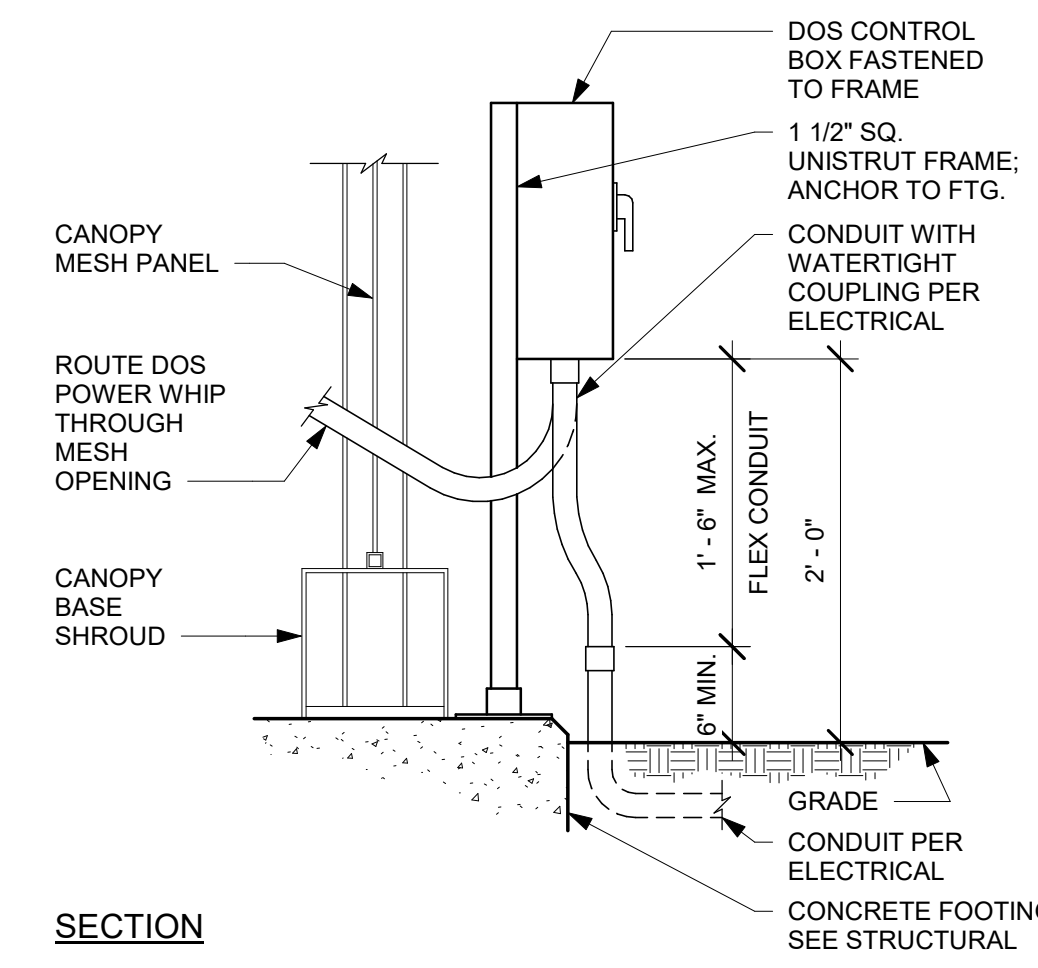
6 MOP FOOTING (BY GC.)
Scale: 3/4" = 1'-0"



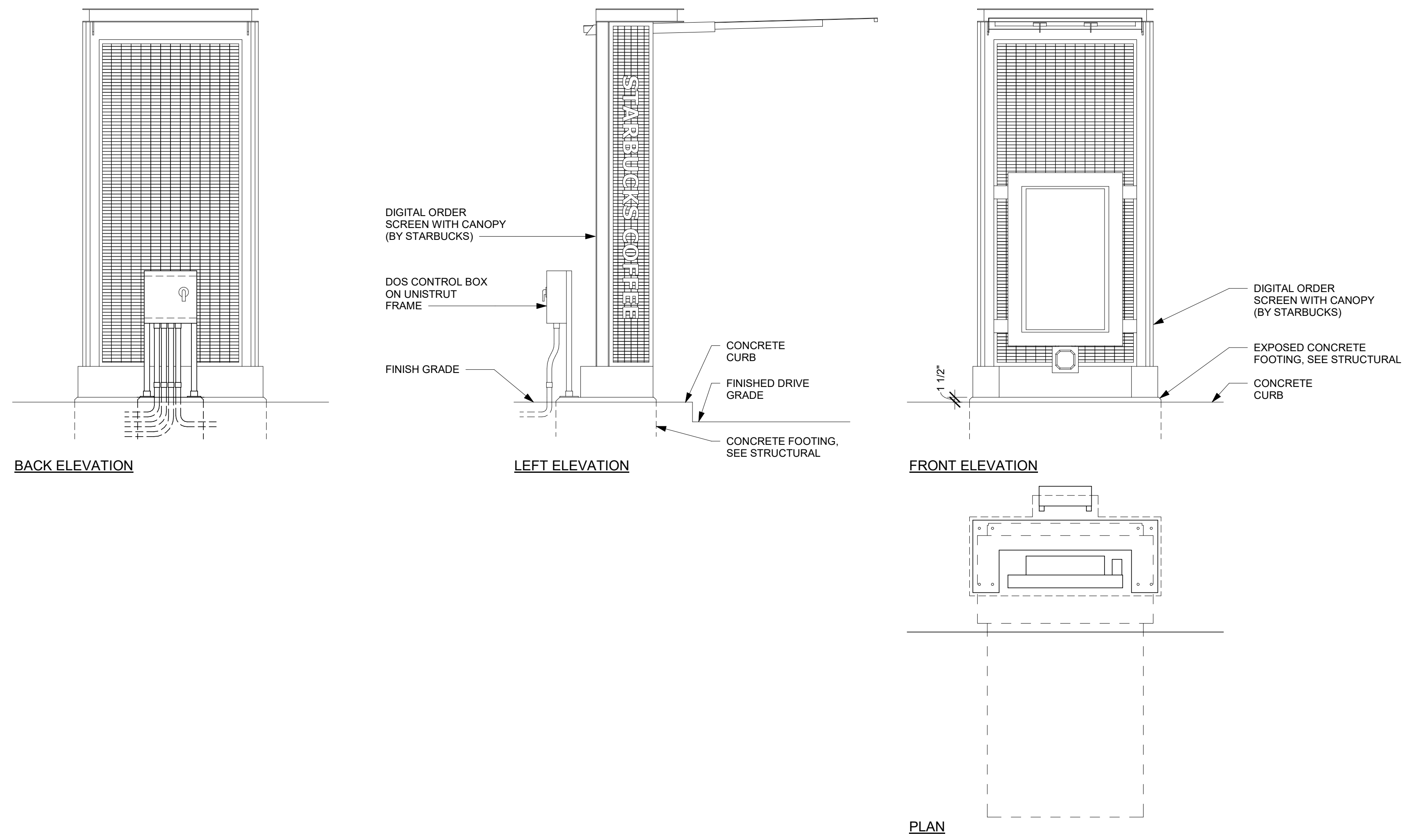
7 SITE - BOLLARD DETAIL
Scale: 3/4" = 1'-0"



5 DTE - DOS CONTROL BOX WIRING
Scale: 12" = 1'-0"

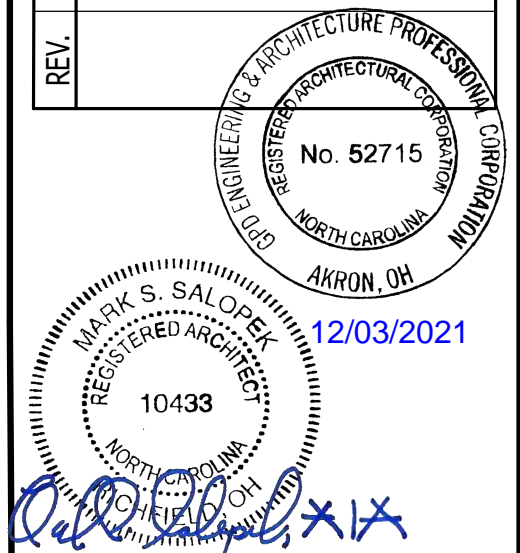


2 DTE - DOS CONTROL BOX AT CANOPY - SECTION
Scale: 1" = 1'-0"



1 DTE - DIGITAL ORDER SCREEN AND CONTROL BOX WITH CANOPY
Scale: 1/2" = 1'-0"

REV.	DATE	DESCRIPTION



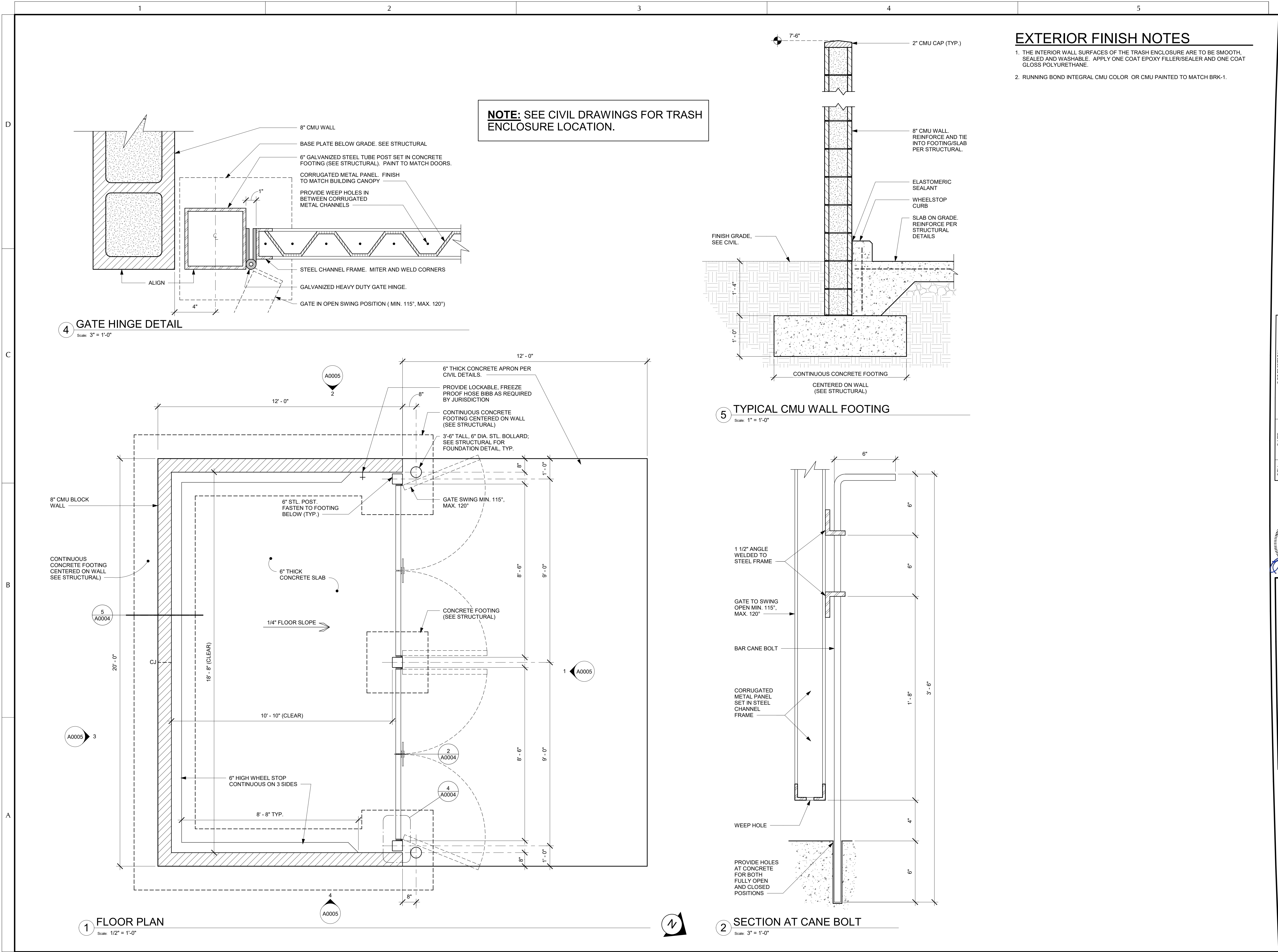
BENSON SHELL
12321 NC-210
BENSON, NC 27504

ARCHITECTURAL SITE DETAILS

PERMIT	DATE
	12/03/2021
BID	
PROJECT MANAGER	DESIGNER
AK	DB

JOB NO.
2021379.01

A0003



EXTERIOR FINISH NOTES

1. THE INTERIOR WALL SURFACES OF THE TRASH ENCLOSURE ARE TO BE SMOOTH, SEALED AND WASHABLE. APPLY ONE COAT EPOXY FILLER/SEALER AND ONE COAT GLOSS POLYURETHANE.
2. RUNNING BOND INTEGRAL CMU COLOR OR CMU PAINTED TO MATCH BRK-1.

REV.	DATE	DESCRIPTION

10433
12/03/2021
10433
12/03/2021

MARK S. SALDANO
REGISTERED ARCHITECT
No. 52715
AKRON, OH

BENSON SHELL
12321 NC-210
BENSON, NC 27504

TRASH ENCLOSURE

PERMIT	DATE
	12/03/2021
BID	

PROJECT MANAGER	DESIGNER
AK	DB

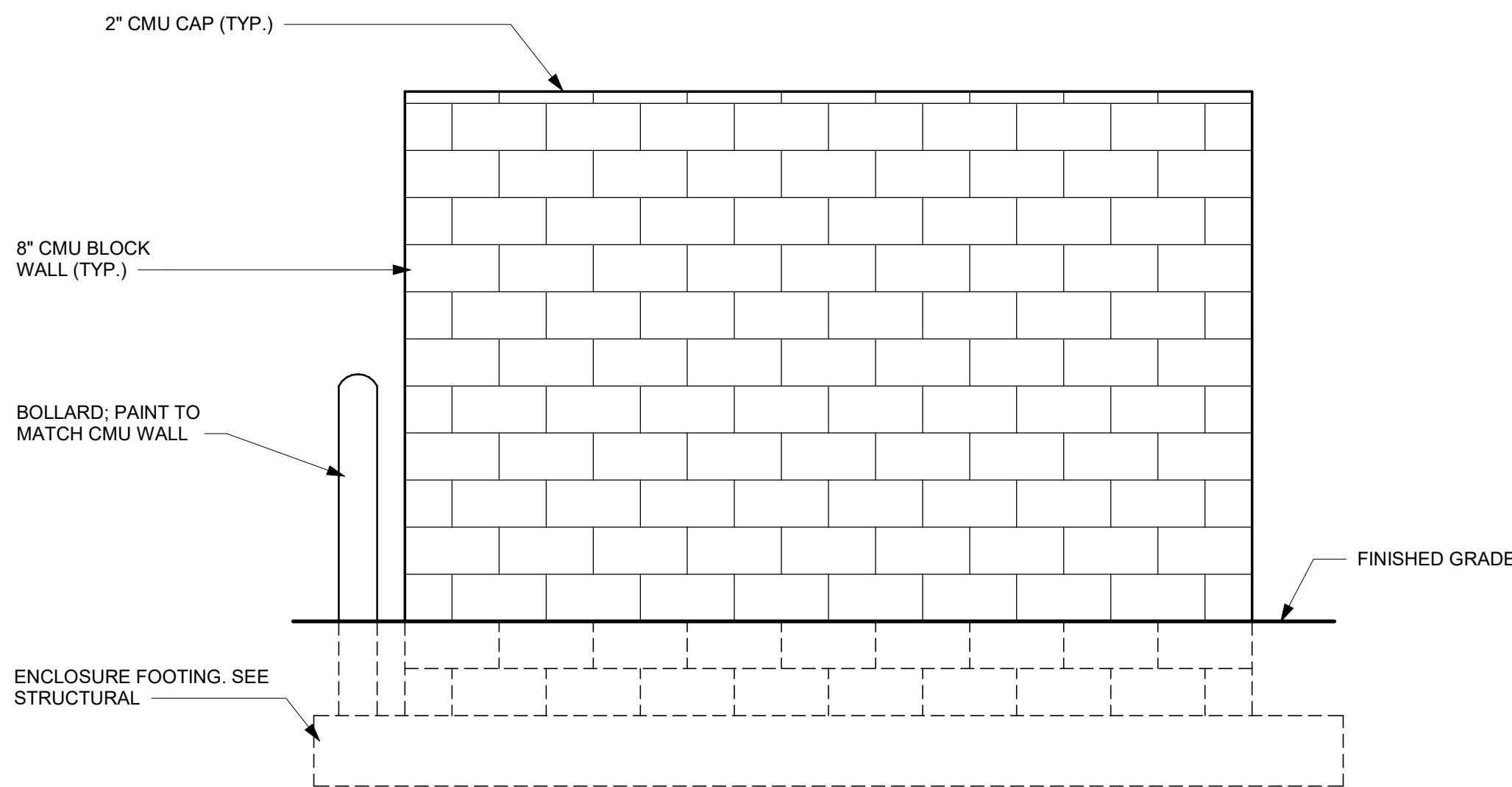
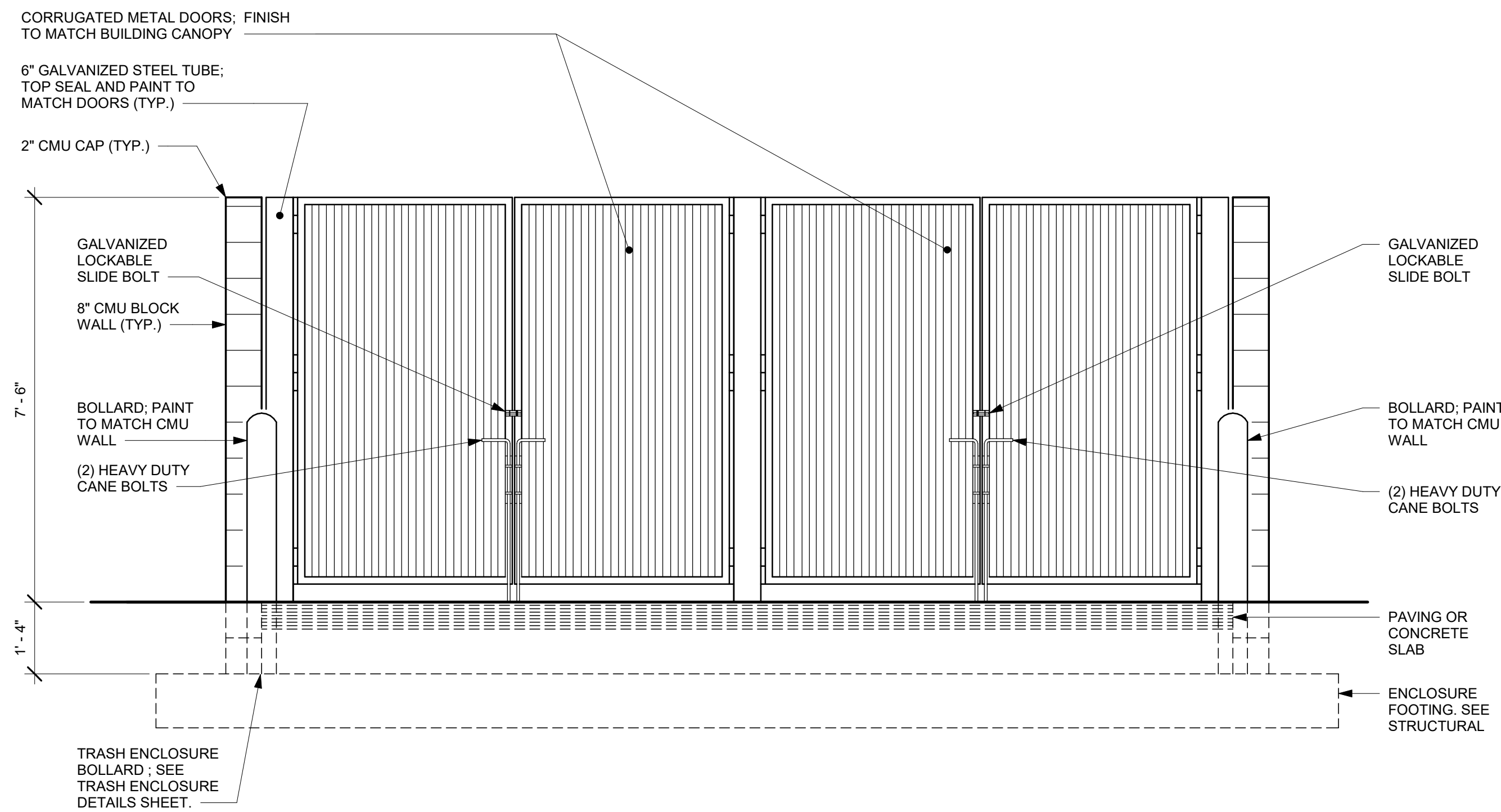
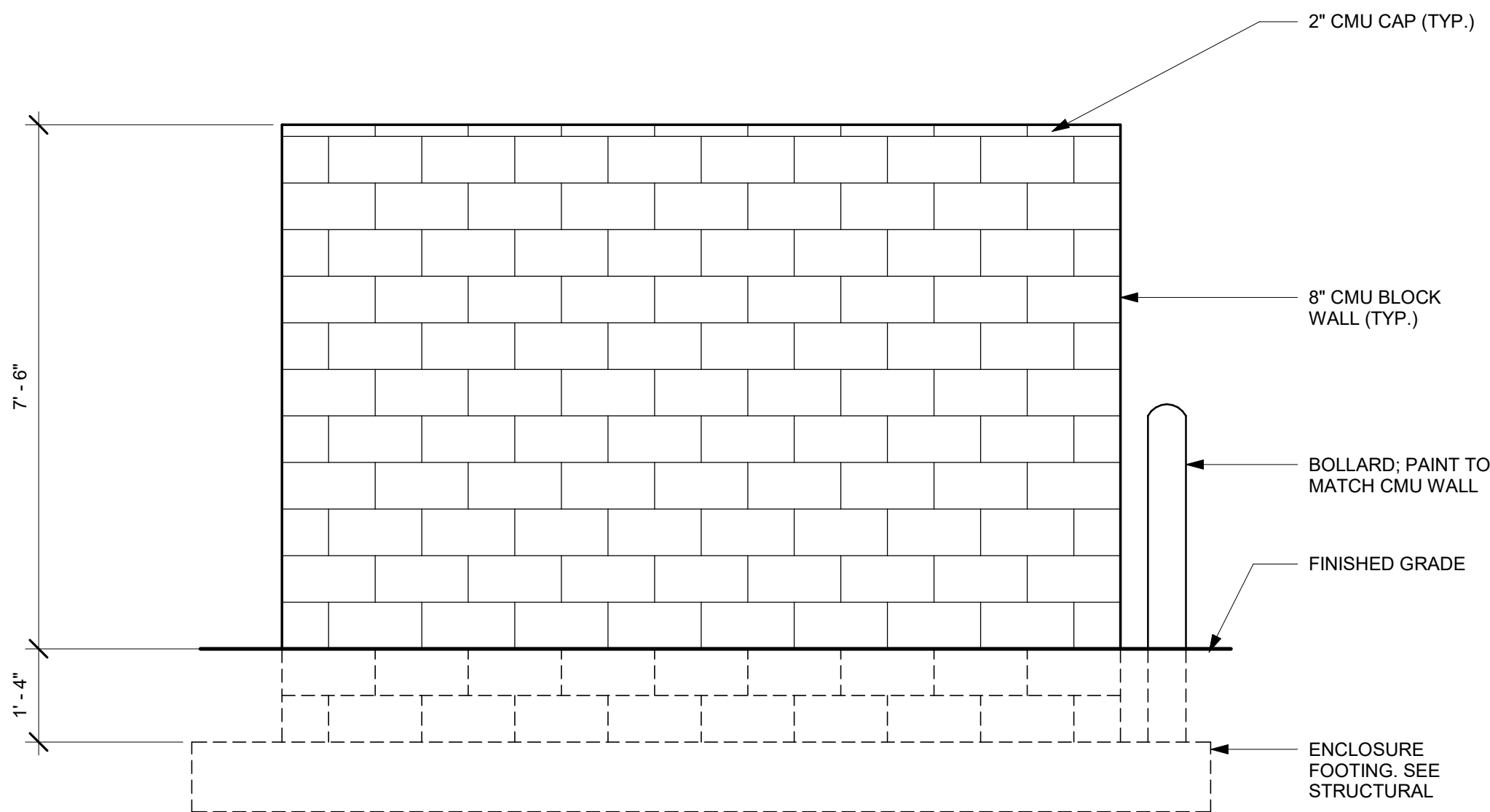
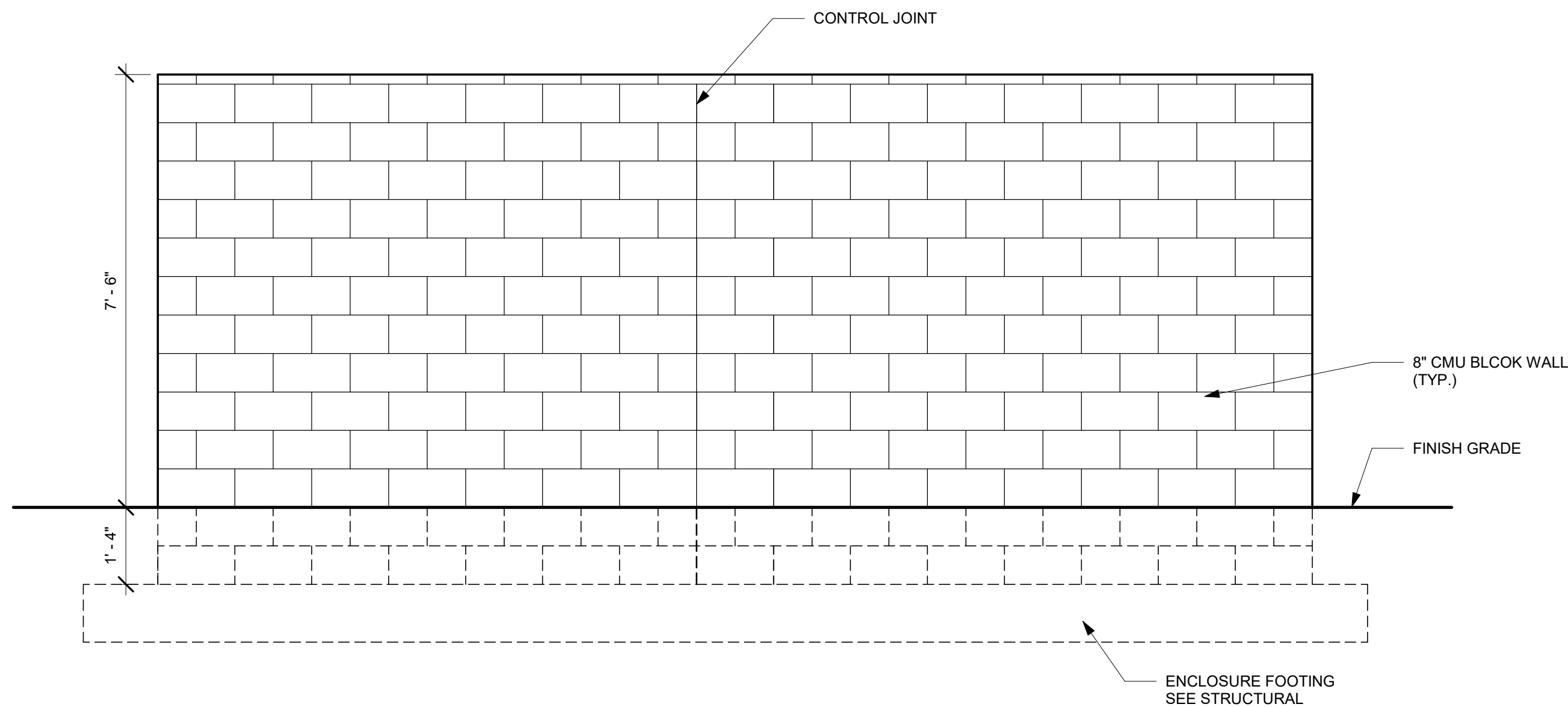
JOB NO.
2021379.01

A0004

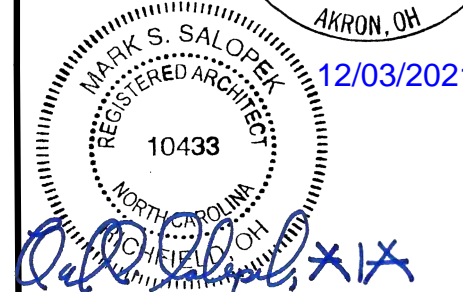
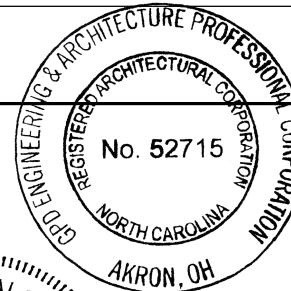
EXTERIOR FINISH NOTES

1. THE INTERIOR WALL SURFACES OF THE TRASH ENCLOSURE ARE TO BE SMOOTH, SEALED AND WASHABLE. APPLY ONE COAT EPOXY FILLER/SEALER AND ONE COAT GLOSS POLYURETHANE.
2. RUNNING BOND INTEGRAL CMU COLOR OR CMU PAINTED TO MATCH BRK-1.

NOTE: SEE CIVIL DRAWINGS FOR TRASH ENCLOSURE LOCATION.



REV.	DATE	DESCRIPTION



BENSON SHELL
12321 NC-210
BENSON, NC 27504

TRASH ENCLOSURE

PERMIT	DATE
	12/03/2021
BID	

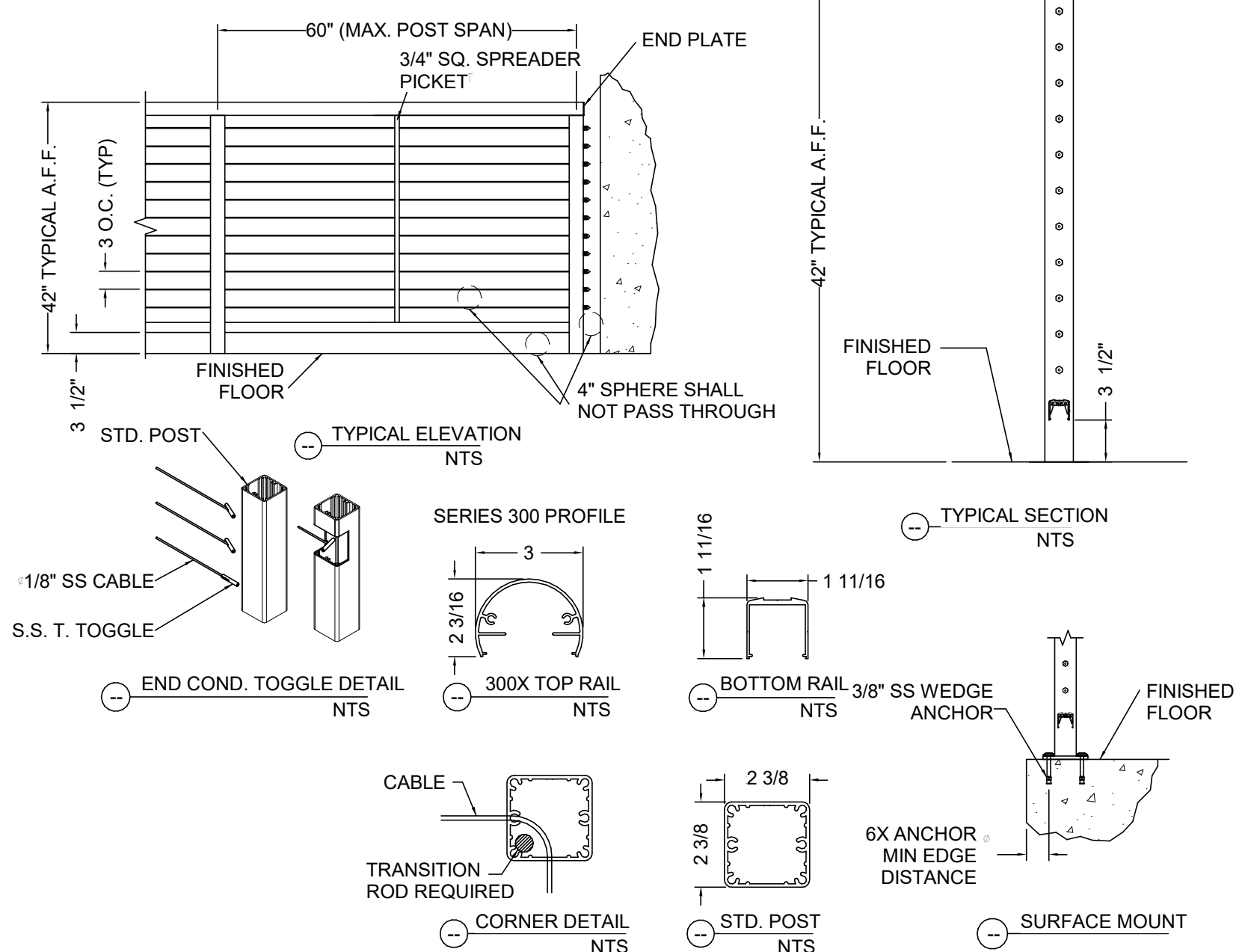
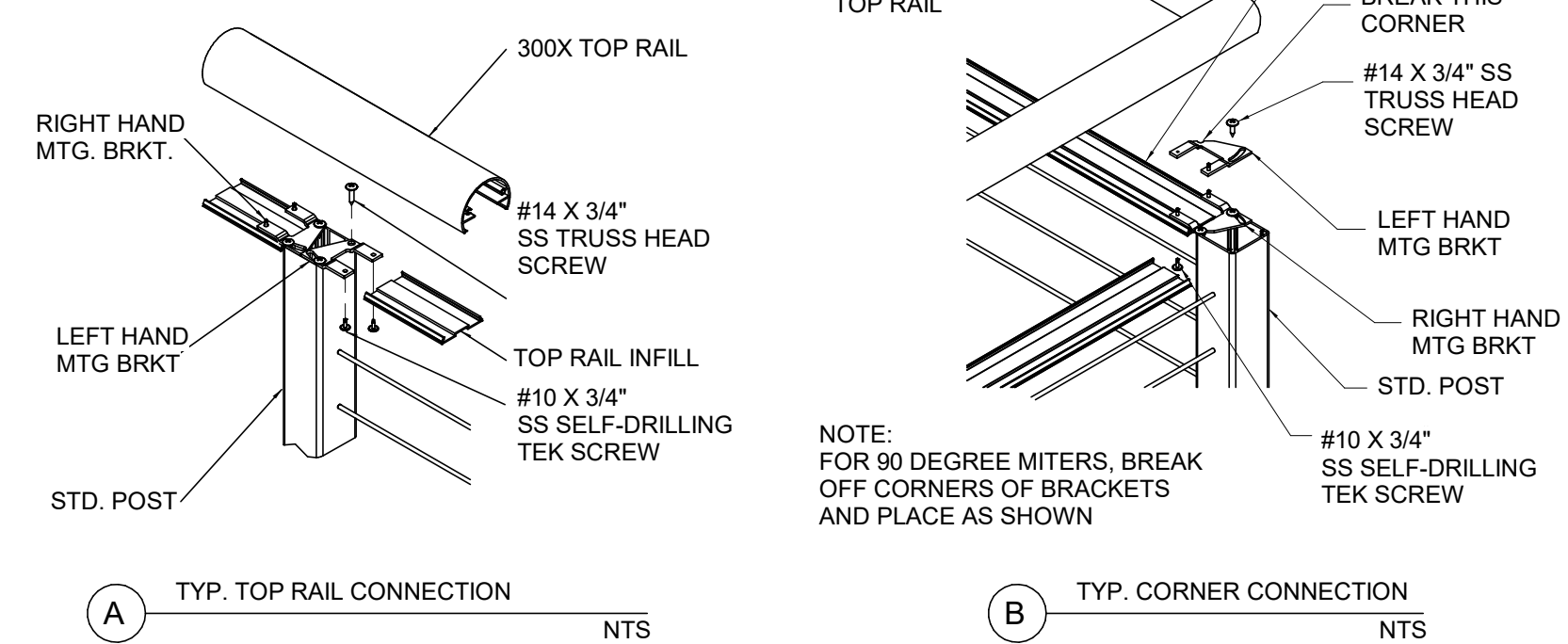
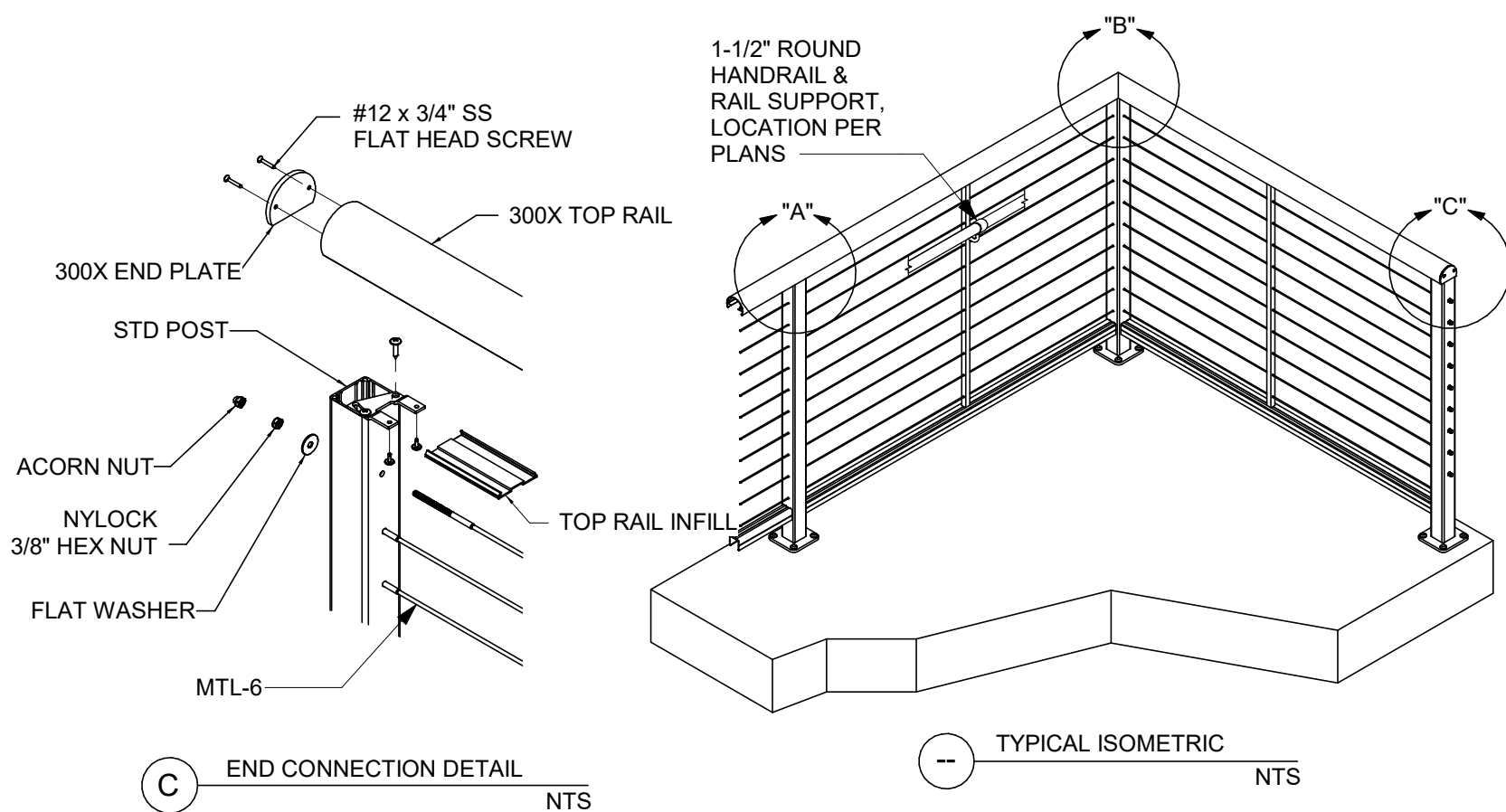
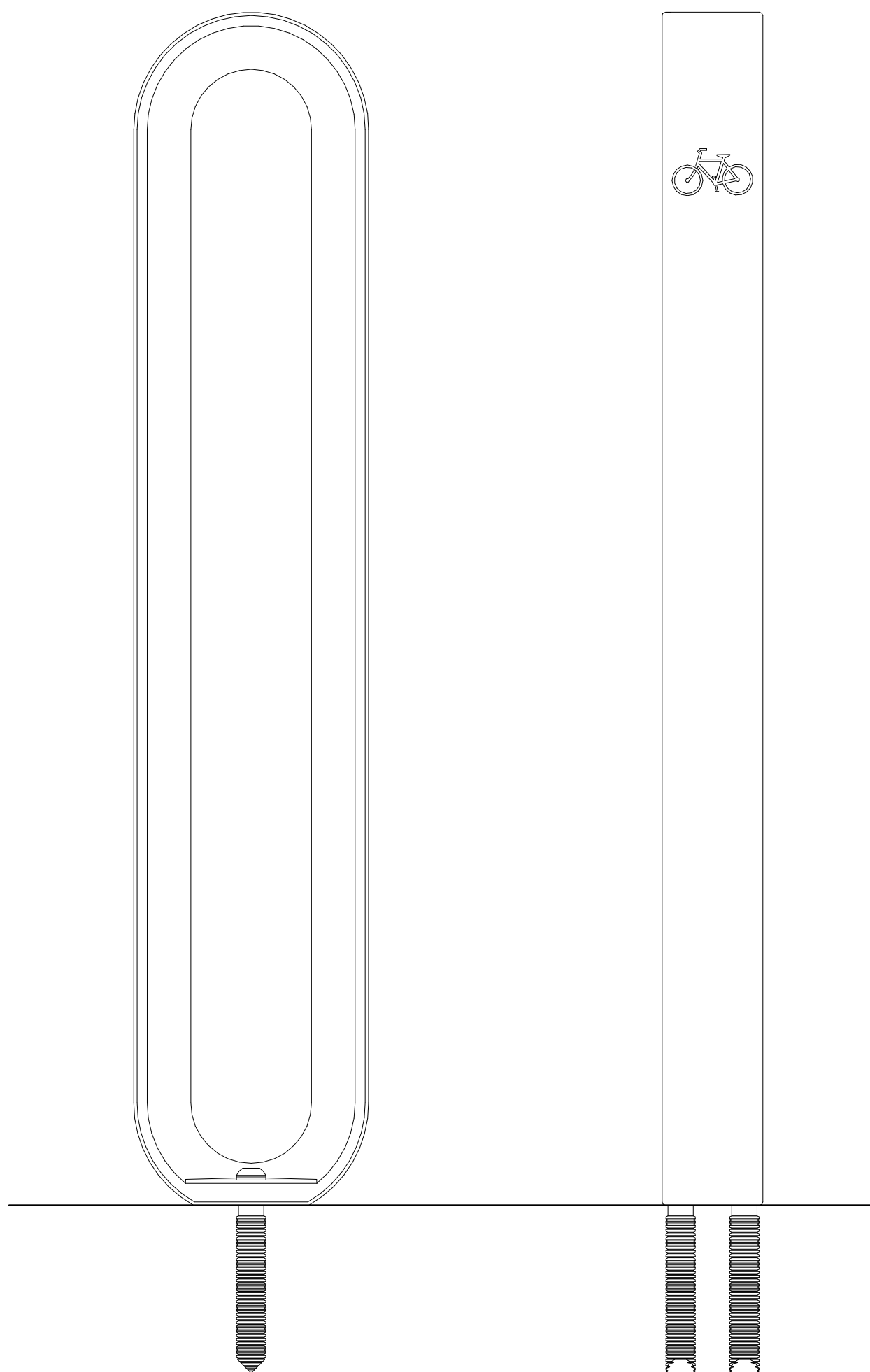
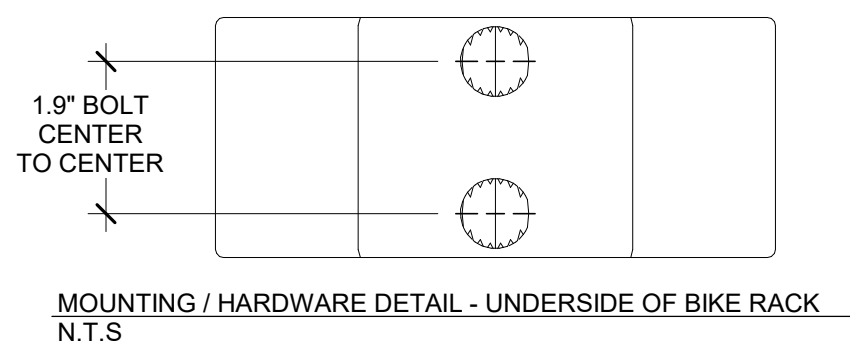
PROJECT MANAGER	DESIGNER
AK	DB

JOB NO.
2021379.01

A0005

KEYED NOTES

- 6" HIGH CONCRETE CURB. SEE CIVIL PLANS.
- LIMITS OF CANOPY (ABOVE). SEE ROOF PLAN AND CANOPY DETAILS.
- PATIO RAILING. MAINTAIN 8" CLEAR BETWEEN EDGE OF CURB AND RAILING. VERIFY RAILING DIMENSIONS IN FIELD. SEE DETAILS ON THIS SHEET.
- CANOPY DOWNSPOUT. HOLD TIGHT TO STEEL COLUMN AND CONNECT TO UNDERGROUND STORM. TYPICAL. SIZE HORIZONTAL AND VERTICAL LEADERS PER RAINFALL RATE. MINIMUM PER 2018 IPC. WHERE ALLOWABLE, PROVIDE 2 X 4 VERTICAL DOWNSPOUTS.
- EDGE OF SIDEWALK. COORDINATE WITH CIVIL.
- BIKE RACK. FORMS + SURFACES; OLYMPIA BIKE RACK. SEE DETAILS ON THIS SHEET. COORDINATE FINAL LOCATION WITH TENANT DRAWINGS.
- CANOPY COLUMN BY CANOPY MANUFACTURER.



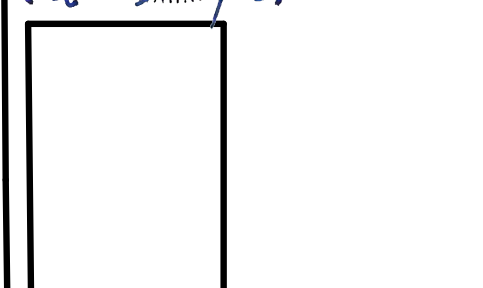
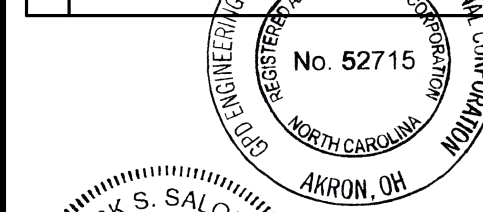
RAILING DETAILS

Scale: N.T.S.

ENLARGED PATIO PLAN

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

REV.	DATE	DESCRIPTION



BENSON SHELL 12321 NC-210 BENSON, NC 27504	PATIO DETAILS
--	---------------

PERMIT	DATE
BID	12/03/2021

PROJECT MANAGER	DESIGNER
AK	DB

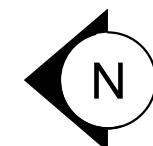
JOB NO. 2021379.01

A0006

1A EXTERIOR WALL (CEMENT PLASTER)

E. DO NOT SCALE DRAWINGS.

1. STRUCTURAL COLUMN. SEE STRUCTURAL.
2. CONCRETE RIBBON SLAB OVER VAPOR BARRIER OVER COMPACTED FILL. SLAB LEAVE-OUT AREA TO BE PROVIDED TO FUTURE TENANT WITH CLEAN COMPACTED FILL 4" BELOW FFE. SEE STRUCTURAL DRAWINGS.
3. INSTALL NEW DOORS AS INDICATED. SEE SHEET A8002 FOR DOOR AND HARDWARE TYPE.
4. ELECTRICAL PANEL LOCATIONS. MAINTAIN MINIMUM CLEARANCE AS REQUIRED BY CODE.
5. ROOF ACCESS LADDER. SEE DETAILS ON A5003.
6. OUTLINE OF CANOPY ABOVE. SEE ROOF PLAN AND EXTERIOR ELEVATIONS.
7. CONCRETE SILL BELOW STOREFRONT. SEE STRUCTURAL DRAWINGS.
8. 4"x4" DOWNSPOUT. CONNECT TO UNDERGROUND STORM DRAINAGE.
9. PROVIDE KEY BOX. REFER TO WHAT KNOXBOX.COM FOR COUNTY APPROVED PRODUCTS.



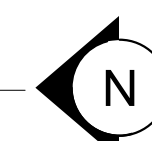
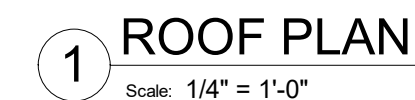
Scale: 1/4" = 1'-0"

DIMENSIONED FLOOR PLAN

PROJECT MANAGER	DESIGNER
AK	DB

A1101

1. TPO MEMBRANE ROOFING PER SPECIFICATION. SEE BUILDING SECTIONS FOR ROOF CONSTRUCTION.
2. DOWN SPOUT CONNECTED TO UNDERGROUND STORM DRAIN – REFER TO CIVIL DRAWINGS FOR CONTINUATION. PROVIDE THRU WALL OVERFLOW SCUPPER. SEE DETAILS ON A5003.
3. ROOF ACCESS LADDER.
4. PRE -FINISHED METAL COPING (TYP.).
5. ROOF CRICKET SLOPE AT 1/4" PER 12".
6. ROOF TOP EQUIPMENT. SEE MECHANICAL.
7. RESTROOM EXHAUST FAN. SEE MECHANICAL AND DETAIL ON A5003.
8. PROVIDE RECESSED LIGHTING IN CANOPY. TYPICAL.
9. PRE-FABRICATED METAL CANOPY INSTALLED BY GC. THIS IS DESIGN: "SUPER LIMUDECK" BY MAPES ARCHITECTURAL CANOPIES. GC TO COORDINATE WITH CANOPY VENDOR.
10. KICKER. SEE BUILDING SECTIONS AND STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION. ROOF MEMBRANE TO BE CONTINUOUS AT VERTICAL SURFACES AT ENDS OF KICKERS AS REQUIRED TO PROVIDE A WEATHER TIGHT ROOF ENCLOSURE FOR ROOFING MANUFACTURER'S REQUIREMENTS.
11. EXTRUDED POLYSTYRENE TAPERED INSULATION AS INDICATED. SLOPE MIN. 1/4" PER FOOT FOR POSITIVE DRAINAGE.

A1501

GENERAL NOTES

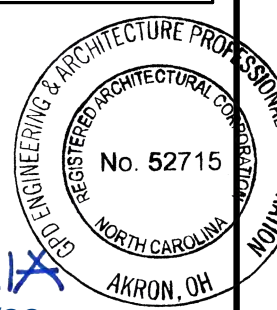
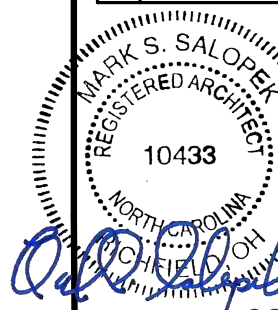
- GENERAL CONTRACTOR TO COORDINATE AND SCHEDULE SIGNAGE INSTALLATION WITH THE SIGNAGE CONTRACTOR PROVIDING A MINIMUM SCHEDULING NOTICE OF 4 WEEKS AND 1 WEEK PRIOR TO SCHEDULED DATE OF INSTALLATION. CONSTRUCTION MANAGER TO PROVIDE GENERAL CONTRACTOR WITH SIGNAGE CONTRACTOR CONTACT INFORMATION.
- GENERAL CONTRACTOR SHALL COORDINATE ELECTRICAL CONTRACTOR TO FURNISH AND INSTALL ELECTRICAL CIRCUITS INCLUDING ALL CONDUIT, WIRE, CONNECTIONS AND BREAKER AT PANEL BOARD NECESSARY TO SERVE SIGNAGE.
- SIGNAGE CONTRACTOR TO INSTALL SIGNAGE IN COMPLIANCE WITH LOCAL CODES AND OBTAIN PERMIT.

KEYED NOTES

- PRIMARY ENTRANCE DOOR(S)
- SECONDARY (PATIO) ENTRANCE DOOR
- PRE-FINISHED METAL COPING, TYPICAL
- OUTLINE OF ROOF BEYOND
- STORE ADDRESS: PROVIDE 6" HIGH BLACK ACRYLIC STORE ADDRESS ON GLAZING ABOVE MAIN ENTRY DOOR.
- DT WINDOW SHELF: INSTALL SERVICE WINDOW SHELF AT 36" AFF INSIDE AND 42" AFF OUTSIDE, AS MEASURED ABOVE THE DT SURFACE.
- PRE-FABRICATED METAL CANOPY INSTALLED BY GC. BASIS OF DESIGN: "SUPER LUMIDECK" BY MAPES ARCHITECTURAL CANOPIES. GC TO COORDINATE WITH CANOPY VENDOR.
- CANOPY DOWNSPOUTS: CONNECT TO UNDERGROUND STORM DRAIN.
- FUTURE SIGNAGE BY OTHERS (SHOWN FOR REFERENCE ONLY).
- PROVIDE J-BOX WITH PULL STRING FOR FUTURE BUILDING SIGNAGE. COORDINATE LOCATION WITH SIGN VENDOR.
- PROVIDE 3/4" MARINE GRADE PLYWOOD BLOCKING FOR EXTERIOR SIGNAGE. EXTEND BLOCKING 8" MINIMUM BEYOND EDGES OF SIGNAGE.
- EXTERIOR SCONCE LIGHTING
- EXTERIOR EGRESS LIGHTING
- PROVIDE RECESSED LIGHTING IN CANOPY. SEE ROOF PLAN.
- CLEVIS AND TIE-ROD BY CANOPY MANUFACTURER INSTALLED BY CONTRACTOR.
- CEMENT PLASTER CONTROL JOINT.
- CONCRETE SILL BELOW STOREFRONT. SEE STRUCTURAL.
- LOCKABLE HOSE BIB, SEE PLUMBING DRAWINGS.
- DECORATIVE C-CHANNEL. SEE DETAIL ON A5001.
- UTILITY SCREEN BY GC. COORDINATE FINAL DESIGN WITH TENANT. SEE FLOOR PLAN FOR EXTENTS.

EXTERIOR FINISH SCHEDULE		
FINISH ID	DESCRIPTION	SPECIFICATIONS
MTL-1	PREFINISHED COPING / BREAK METAL	PRE-FINISHED COLOR: MATCH RAL#7021 MATTE MT0028 - "FLAT BLACK"
MTL-3	H.M. DOOR AND FRAME	COLOR: MATCH RAL#7021 MATTE MT0028 - "FLAT BLACK"
MTL-4	METAL CANOPY	POWDERCOAT COLOR: MATCH RAL#7021 MATTE MT0028 - "FLAT BLACK" UNDERSIDE OF CANOPIES TO VARY. COORDINATE FINAL FINISH SELECTIONS WITH ARCHITECT.
MTL-5	METAL DOWNSPOUT	COLOR: MATCH RAL#7021 MATTE MT0028 - "FLAT BLACK"
MTL-6	ROOF ACCESS LADDER	COLOR: MATCH RAL#7021 MATTE MT0028 - "FLAT BLACK"
MTL-8	DECORATIVE C-CHANNEL	COLOR: MATCH RAL#7021 MATTE MT0028 - "FLAT BLACK"
SF-1	ANNODIZED STOREFRONT	COLOR: MATCH RAL#7021 MATTE MT0028 - "FLAT BLACK"
SP-1	CEMENT PLASTER, FINE FINISH	CEMENT PLASTER SYSTEM COLOR: MATCH SW7504 KEYSTONE GRAY
SP-2	CEMENT PLASTER, FINE FINISH	CEMENT PLASTER SYSTEM COLOR: MATCH SW7026 GRIFFIN
BRK-1	BRICK, SMOOTH, MODULAR	CHEROKEE BRICK COLOR: VELOUR MEDIUM GRAY

DESCRIPTION	
DATE	02/23/2022
REV.	1



02/23/22

BENSON SHELL
12321 NC-210
BENSON, NC 27504

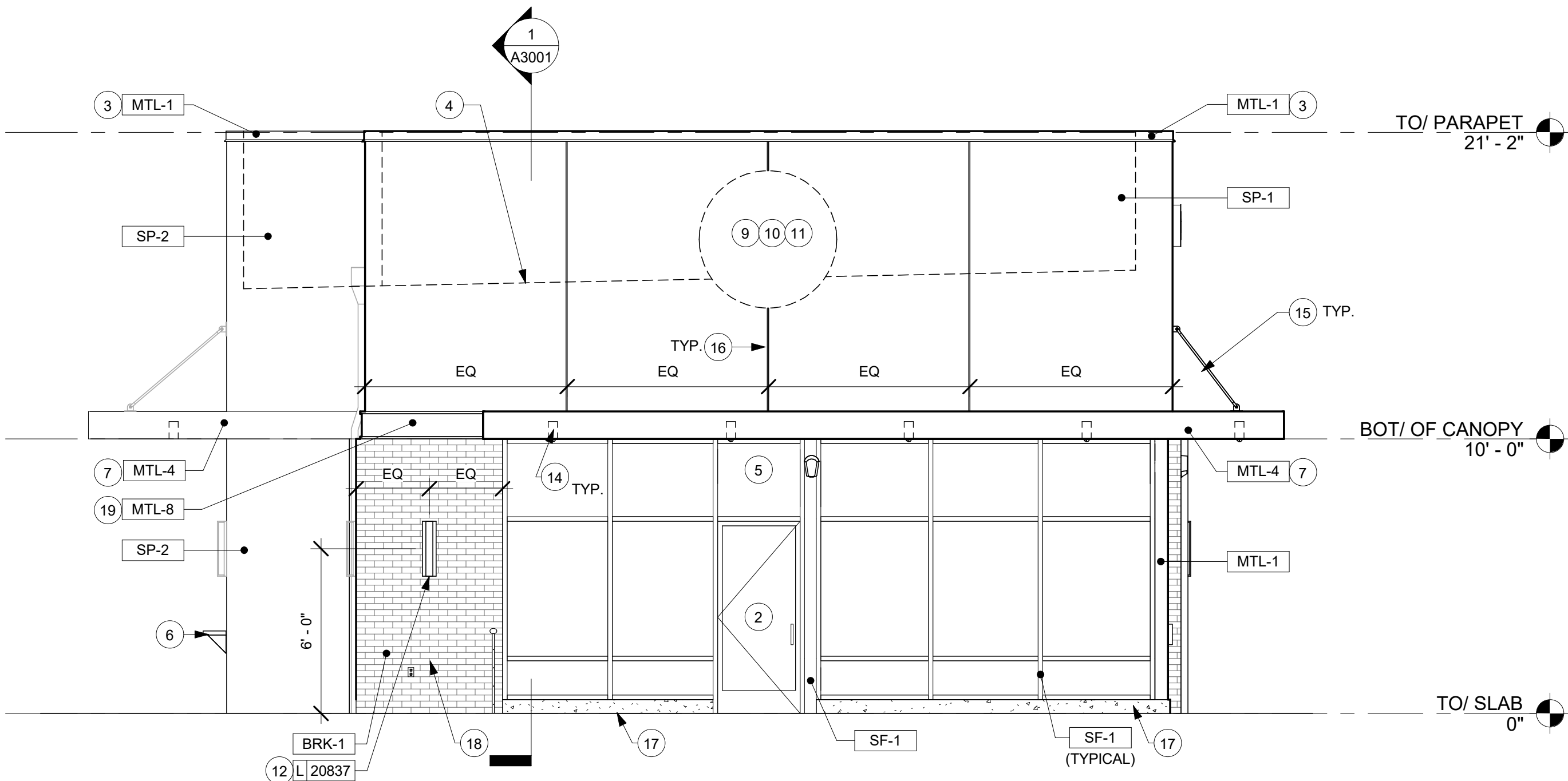
EXTERIOR ELEVATIONS

DATE	
PERMIT	12/03/2021
BID	---

PROJECT MANAGER	DESIGNER
AK	DB

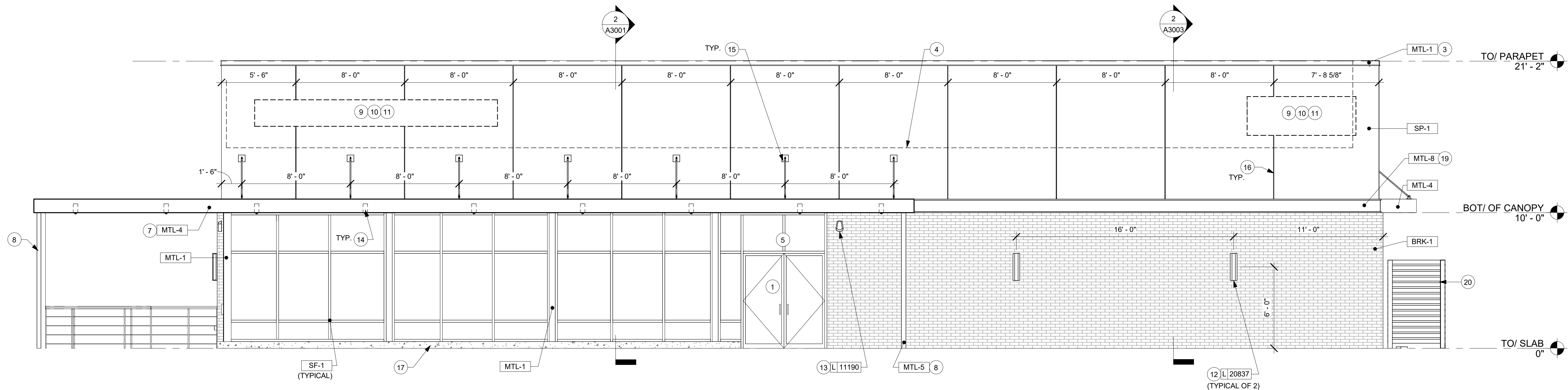
JOB NO.
2021379.01

A2001



2 NORTH ELEVATION

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



1 WEST ELEVATION

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

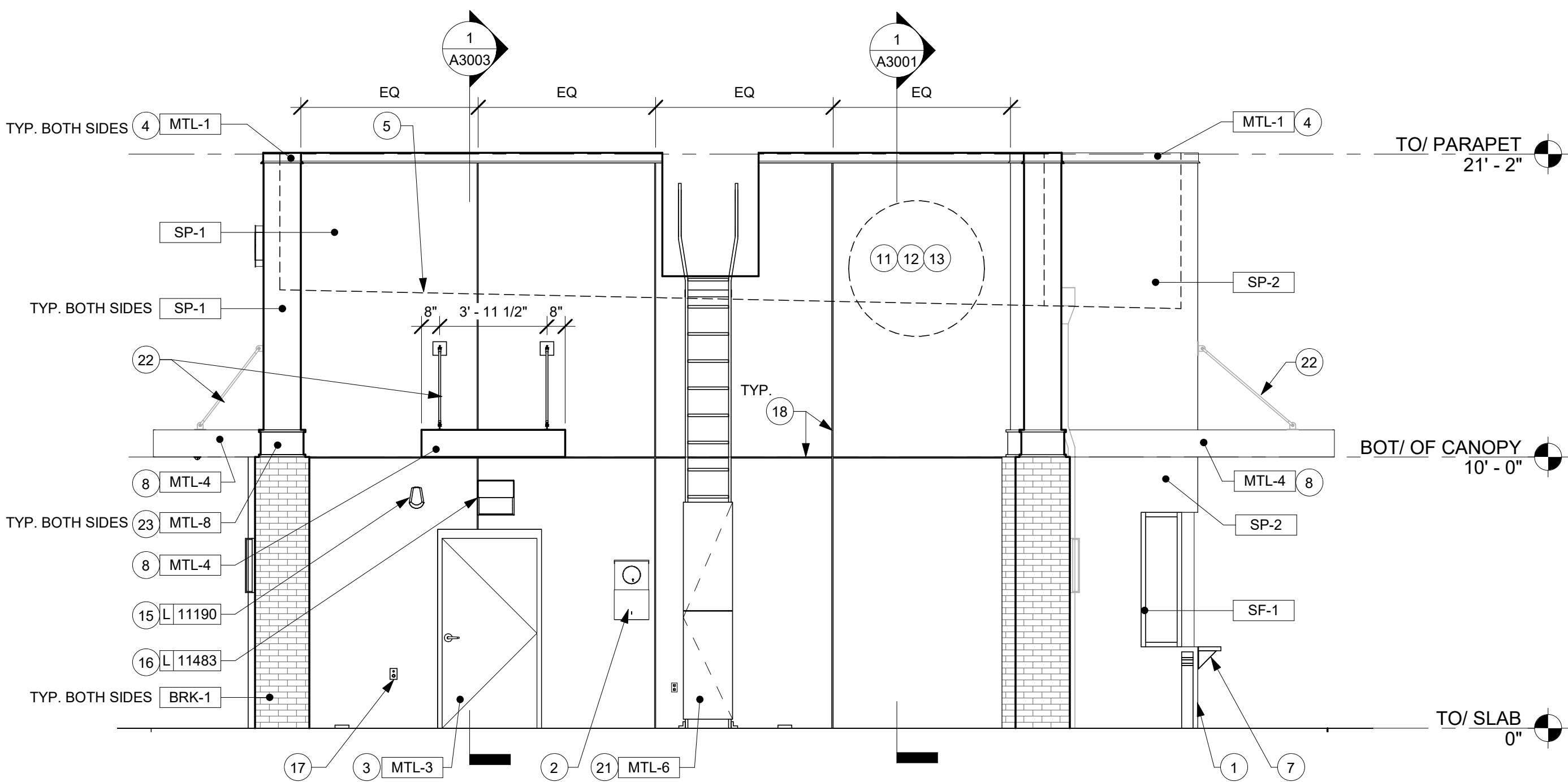
GENERAL NOTES

- A. GENERAL CONTRACTOR TO COORDINATE AND SCHEDULE SIGNAGE INSTALLATION WITH THE SIGNAGE CONTRACTOR PROVIDING A MINIMUM SCHEDULING NOTICE OF 4 WEEKS AND 1 WEEK PRIOR TO SCHEDULED DATE OF INSTALLATION. CONSTRUCTION MANAGER TO PROVIDE GENERAL CONTRACTOR WITH SIGNAGE CONTRACTOR CONTACT INFORMATION.
- B. GENERAL CONTRACTOR SHALL COORDINATE ELECTRICAL CONTRACTOR TO FURNISH AND INSTALL ELECTRICAL CIRCUITS INCLUDING ALL CONDUIT, WIRE, CONNECTIONS AND BREAKER AT PANEL BOARD NECESSARY TO SERVE SIGNAGE.
- C. SIGNAGE CONTRACTOR TO INSTALL SIGNAGE IN COMPLIANCE WITH LOCAL CODES AND OBTAIN PERMIT.

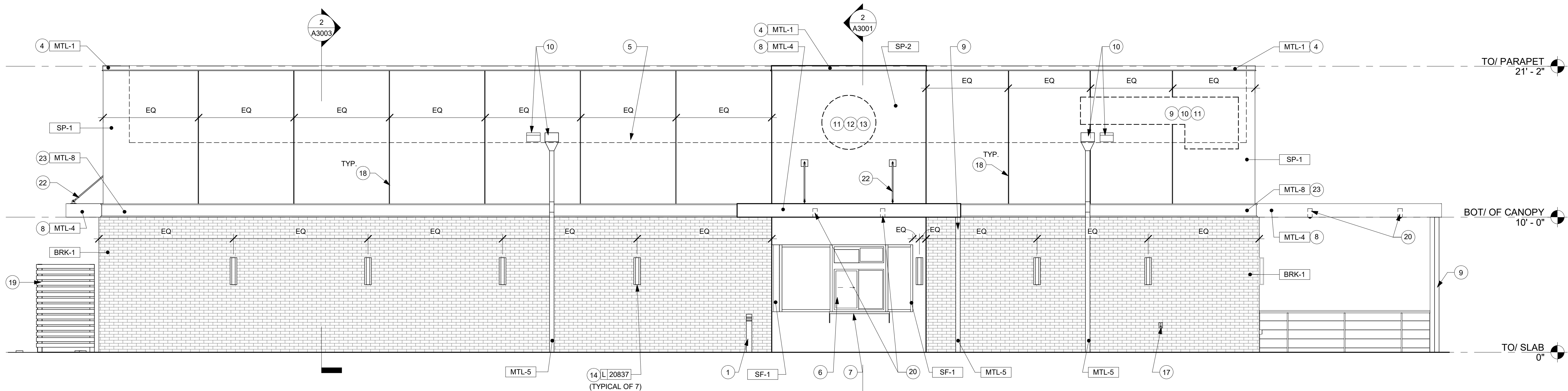
KEYED NOTES

- NON-ILLUMINATED PROTECTIVE BOLLARD
- ELECTRICAL METER
- SERVICE DOOR
- PRE-FINISHED METAL COPING, TYPICAL
- OUTLINE OF ROOF BEYOND
- DT WINDOW: PROVIDE READY ACCESS 800 SERIES SINGLE PANEL SLIDER WITH MOER, LOW E INSULATED GLASS AND 16" SPLIT TRANSOM. USE WITH AA100 AIR CURTAIN. WINDOW AND AIR CURTAIN FINISH TO MATCH ADJACENT STOREFRONT.
- DT WINDOW SHELFF: INSTALL SERVICE WINDOW SHELFF AT 36" AFF INSIDE AND 42" AFF OUTSIDE, AS MEASURED ABOVE THE DT SURFACE.
- PRE-FABRICATED METAL CANOPY INSTALLED BY GC. BASIS OF DESIGN: "SUPER LUMIDECK" BY MAPES ARCHITECTURAL CANOPIES. GC TO COORDINATE WITH CANOPY VENDOR.
- CANOPY DOWNSPOUTS: CONNECT TO UNDERGROUND STORM DRAIN.
- ROOF SCUPPER AND EMERGENCY OVERFLOW: CONNECT VERTICAL LEADERS TO UNDERGROUND STORM DRAIN.
- FUTURE SIGNAGE BY OTHERS (SHOWN FOR REFERENCE ONLY).
- PROVIDE J-BOX WITH PULL STRING FOR FUTURE BUILDING SIGNAGE. COORDINATE LOCATION WITH SIGN VENDOR.
- PROVIDE 3/4" MARINE GRADE PLYWOOD BLOCKING FOR EXTERIOR SIGNAGE. EXTEND BLOCKING 8" MINIMUM BEYOND EDGES OF SIGNAGE.
- EXTERIOR SCENCE LIGHTING
- EXTERIOR EGRESS LIGHTING
- EXTERIOR SECURITY LIGHTING.
- LOCKABLE HOSE BIB, SEE PLUMBING DRAWINGS
- CEMENT PLASTER CONTROL JOINT. SEE DETAILS ON A5001.
- UTILITY SCREEN. SEE DETAILS ON A0002.
- PROVIDE RECESSED LIGHTING IN DT CANOPY.
- ROOF ACCESS LADDER. SEE DETAILS ON A5003.
- CLEVIS AND TIE-ROD BY CANOPY MANUFACTURER INSTALLED BY CONTRACTOR.
- DECORATIVE C-CHANNEL. SEE DETAIL ON A5001.

EXTERIOR FINISH SCHEDULE		
FINISH ID	DESCRIPTION	SPECIFICATIONS
MTL-1	PREFINISHED COPING / BREAK METAL	PRE-FINISHED COLOR: MATCH RAL#7021 MATTE MT0028 - "FLAT BLACK"
MTL-3	H.M. DOOR AND FRAME	COLOR: MATCH RAL#7021 MATTE MT0028 - "FLAT BLACK"
MTL-4	METAL CANOPY	POWDERCOAT COLOR: MATCH RAL#7021 MATTE MT0028 - "FLAT BLACK" UNDERSIDE OF CANOPIES TO VARY. COORDINATE FINAL FINISH SELECTIONS WITH ARCHITECT.
MTL-5	METAL DOWNSPOUT	COLOR: MATCH RAL#7021 MATTE MT0028 - "FLAT BLACK"
MTL-6	ROOF ACESS LADDER	COLOR: MATCH RAL#7021 MATTE MT0028 - "FLAT BLACK"
MTL-8	DECORATIVE C-CHANNEL	COLOR: MATCH RAL#7021 MATTE MT0028 - "FLAT BLACK"
SF-1	ANNODIZED STOREFRONT	COLOR: MATCH RAL#7021 MATTE MT0028 - "FLAT BLACK"
SP-1	CEMENT PLASTER, FINE FINISH	CEMENT PLASTER SYSTEM COLOR: MATCH SW7504 KEYSTONE GRAY
SP-2	CEMENT PLASTER, FINE FINISH	CEMENT PLASTER SYSTEM COLOR: MATCH SW7026 GRIFFIN
BRK-1	BRICK, SMOOTH, MODULAR	CHEROKEE BRICK COLOR: VELOUR MEDIUM GRAY

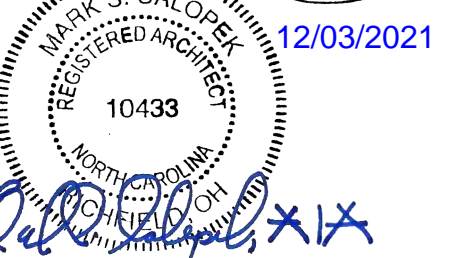
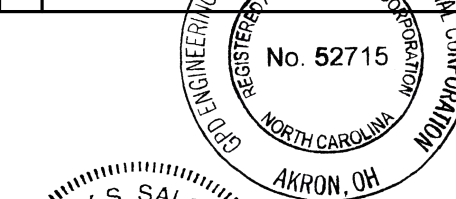


2 SOUTH ELEVATION
Scale: 1/4" = 1'-0"



1 EAST ELEVATION
Scale: 1/4" = 1'-0"

REV.	DATE	DESCRIPTION



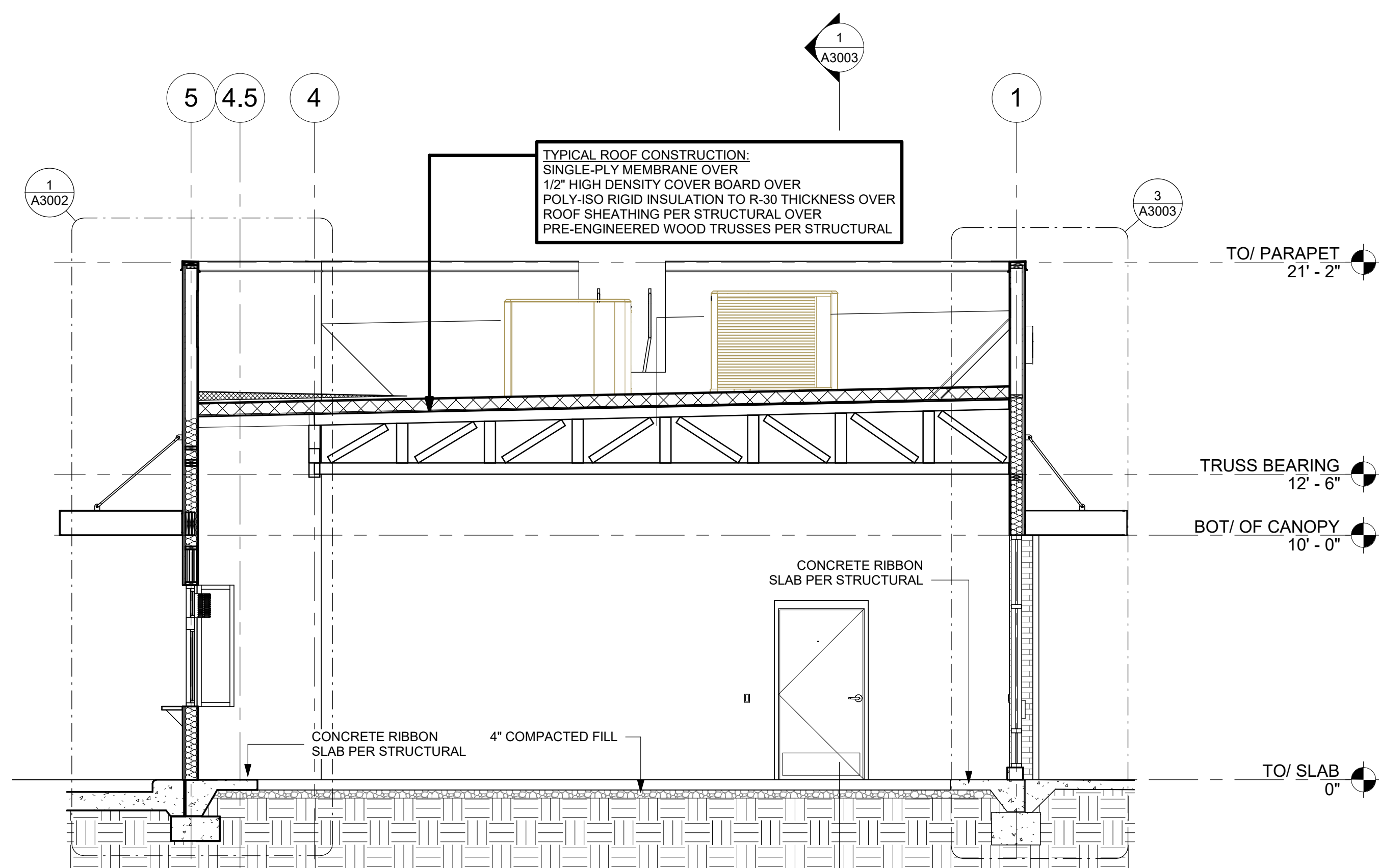
BENSON SHELL 12321 NC-210 BENSON, NC 27504	
EXTERIOR ELEVATIONS	

	DATE
PERMIT	12/03/2021
BID	---

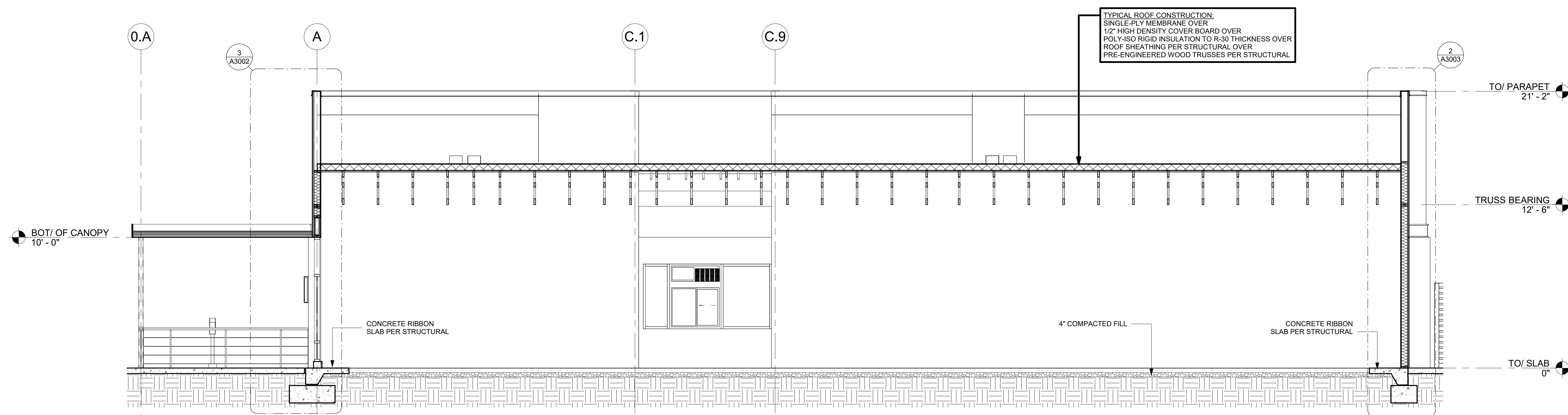
PROJECT MANAGER	DESIGNER
AK	DB

JOB NO. 2021379.01

A2002

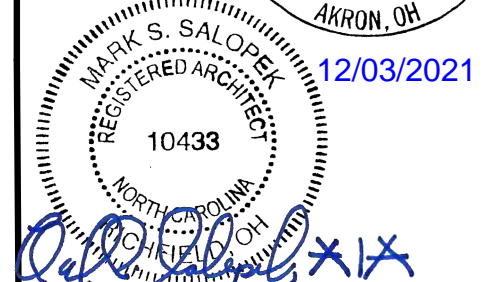
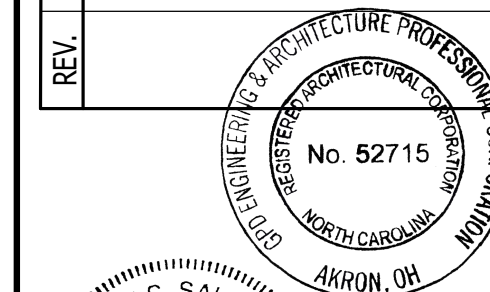


2 TRANSVERSE BUILDING SECTION
Scale: 1/4" = 1'-0"



1 LONGITUDINAL BUILDING SECTION
Scale: 1/4" = 1'-0"

REV.	DATE	DESCRIPTION



MARK S. SALONER
REGISTERED ARCHITECT
10433
12/03/2021

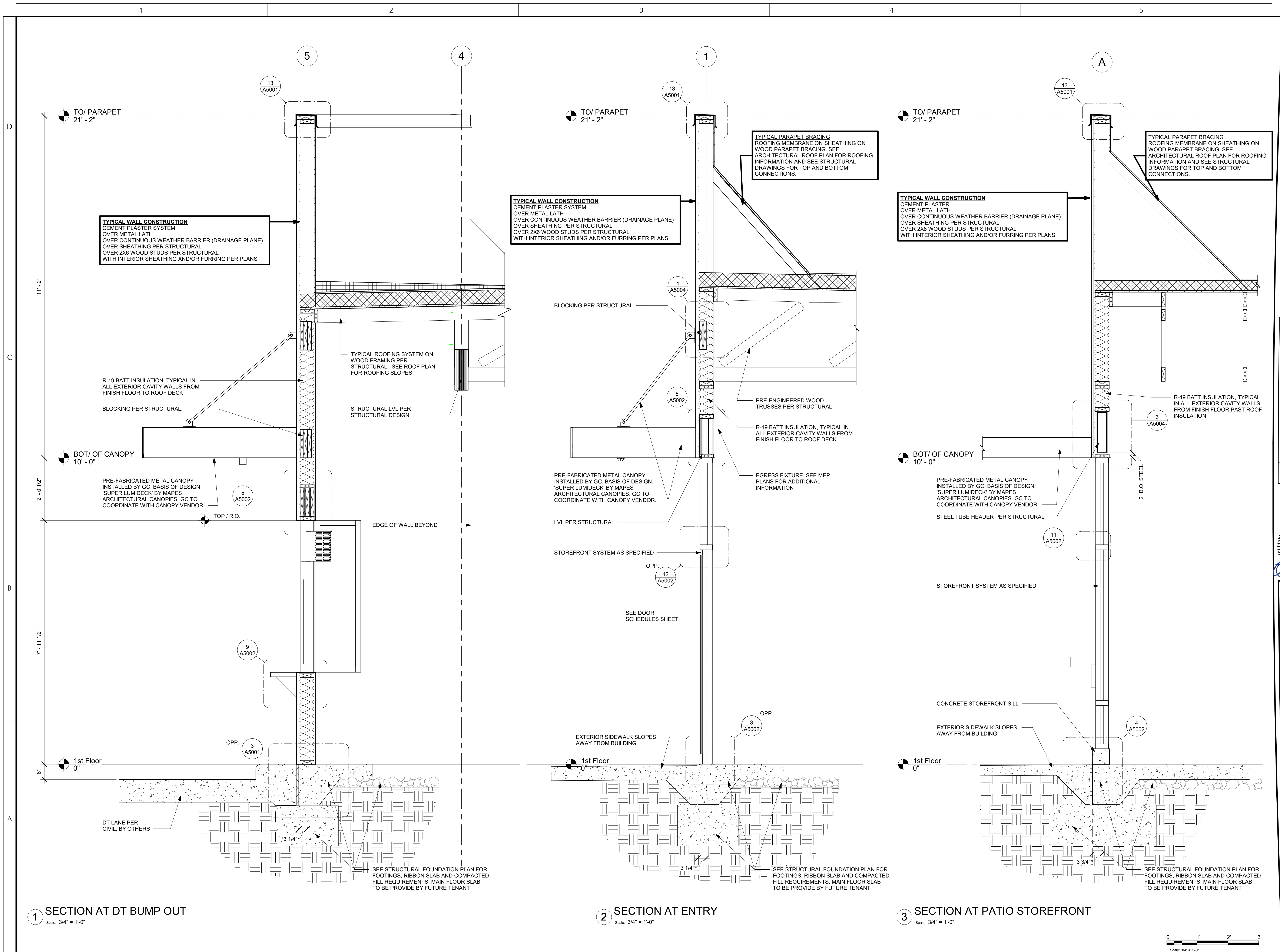
BENSON SHELL
12321 NC-210
BENSON, NC 27504

BUILDING SECTIONS

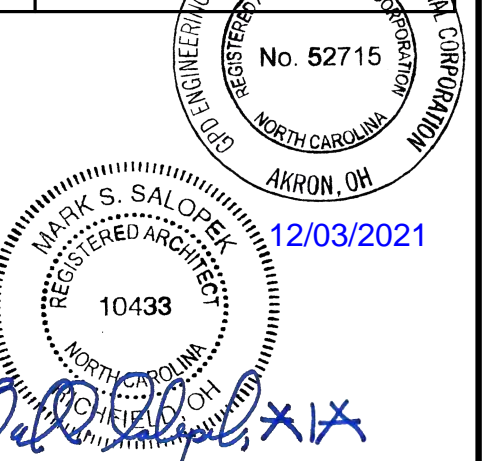
PERMIT	DATE
	12/03/2021
BID	
PROJECT MANAGER	DESIGNER
AK	DB

JOB NO.
2021379.01

A3001



REV.	DATE	DESCRIPTION



BENSON SHELL
12321 NC-210
BENSON, NC 27504

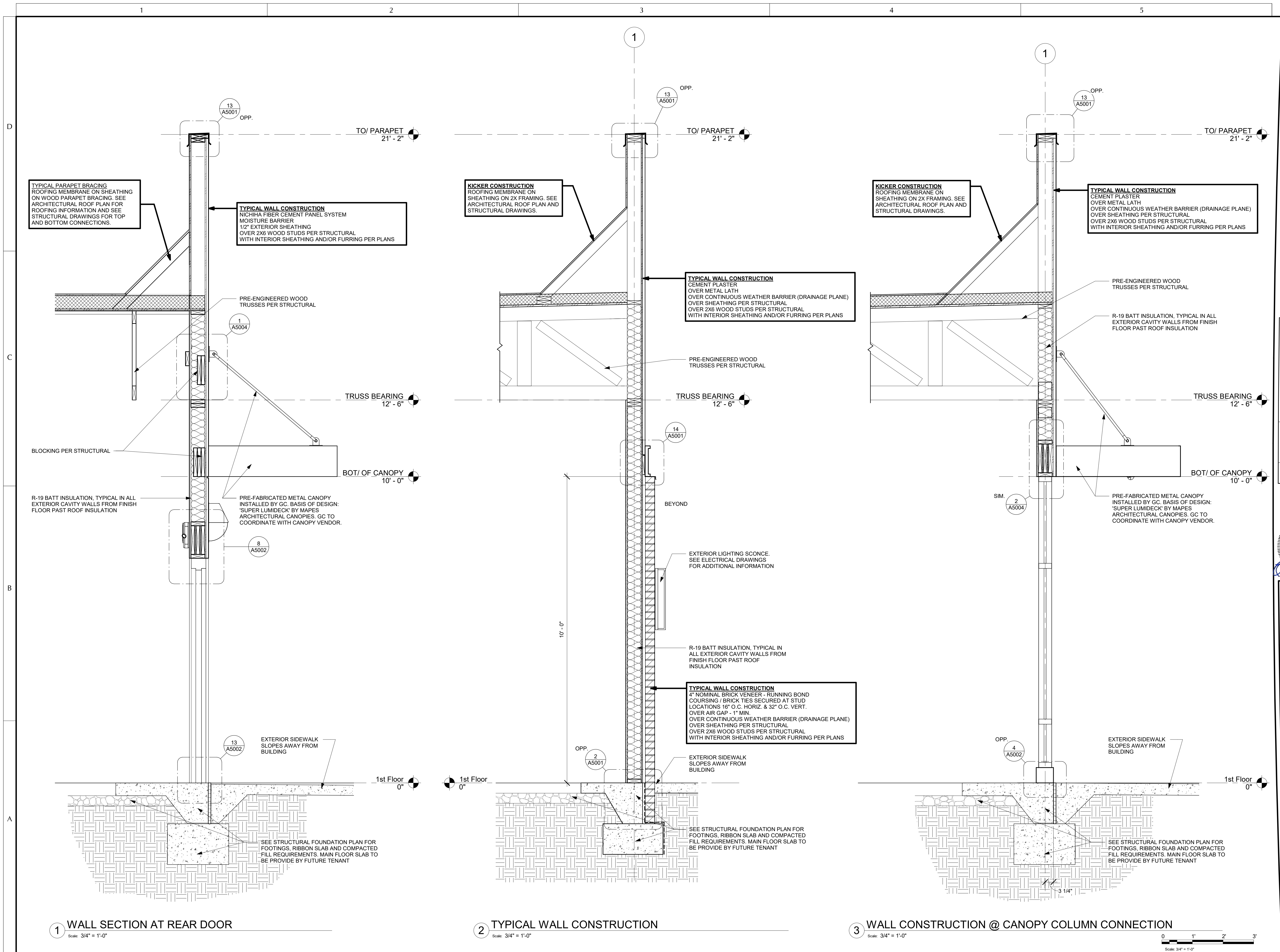
WALL SECTIONS

PERMIT	DATE
BID	12/03/2021
PROJECT MANAGER	DESIGNER
AK	DB

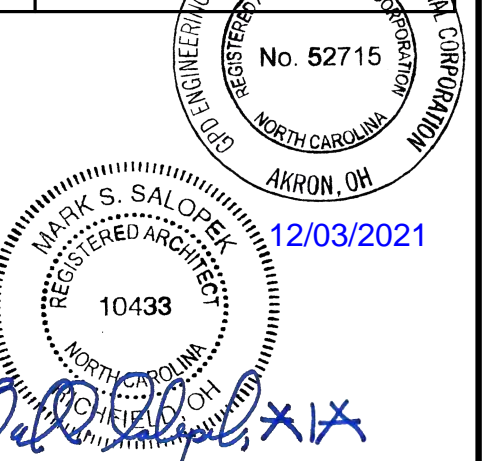
JOB NO.
2021379.01

A3002





REV.	DATE	DESCRIPTION



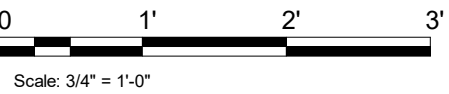
BENSON SHELL
12321 NC-210
BENSON, NC 27504

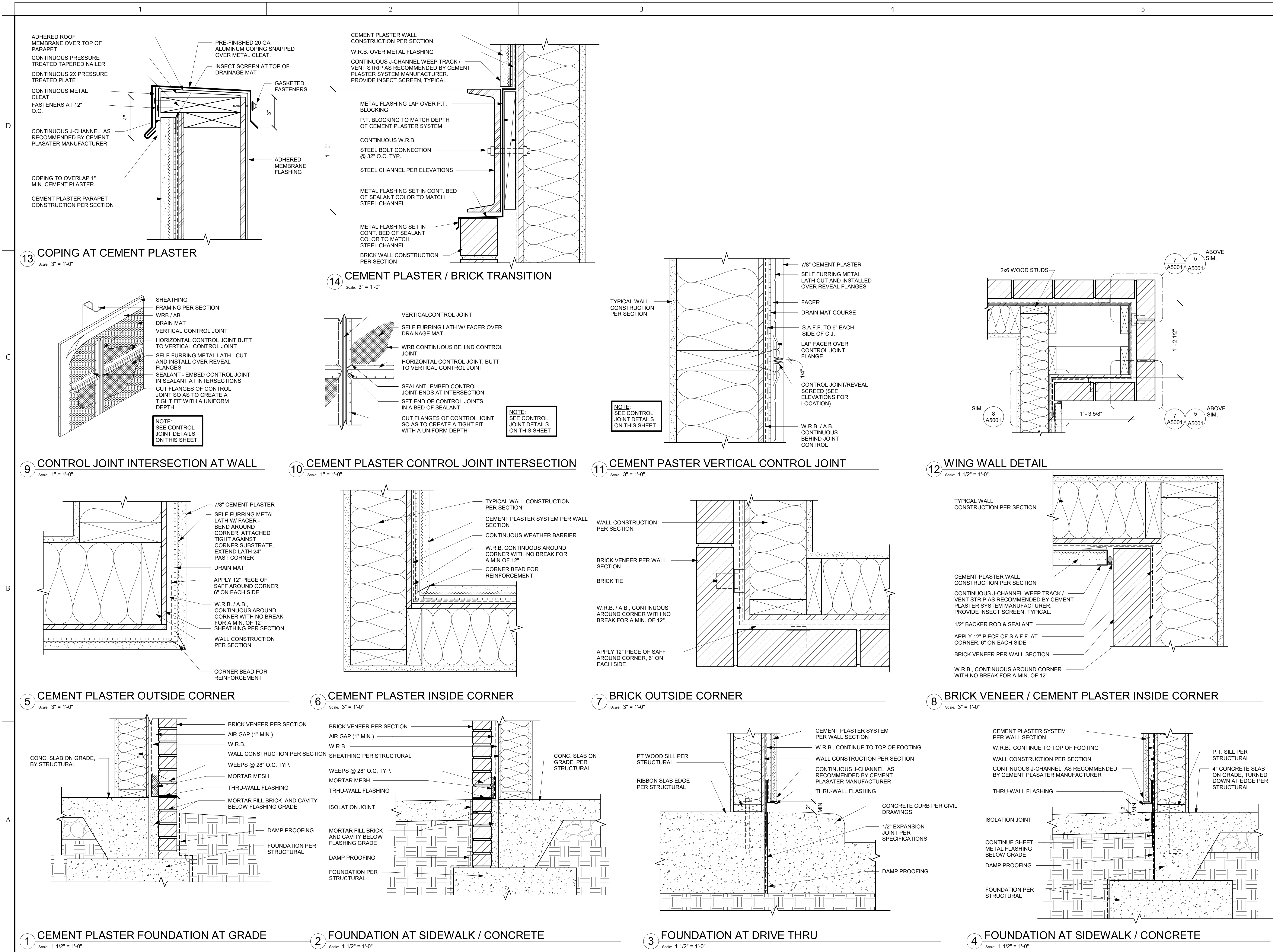
WALL SECTIONS

PERMIT	DATE
BID	12/03/2021
PROJECT MANAGER	DESIGNER
AK	DB

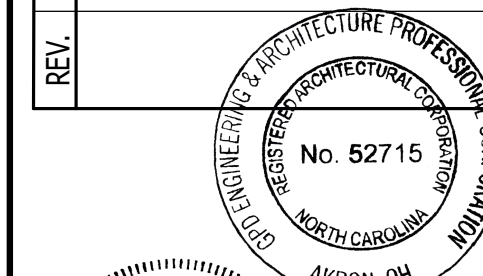
JOB NO.
2021379.01

A3003





REV.	DATE	DESCRIPTION



12/03/2021
10433

MARK S. SALO, P.E.
REGISTERED PROFESSIONAL ENGINEER
MECHANICAL ENGINEERING
OHIO
No. 52715

BENSON SHELL
12321 NC-210
BENSON, NC 27504

BUILDING DETAILS

PERMIT	DATE
	12/03/2021
BID	
PROJECT MANAGER	DESIGNER
AK	DB

JOB NO.
2021379.01

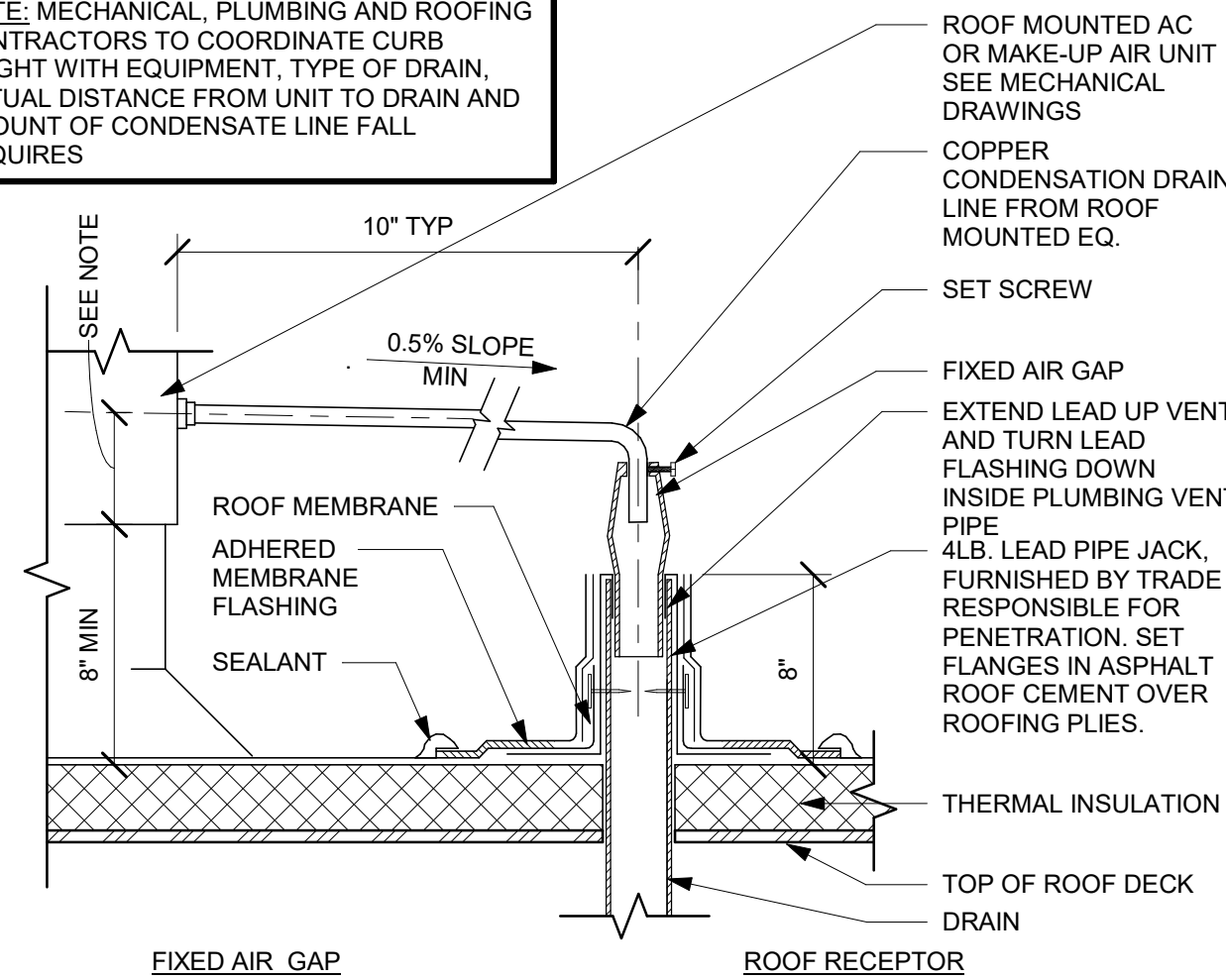
A5001



[Handwritten signature]

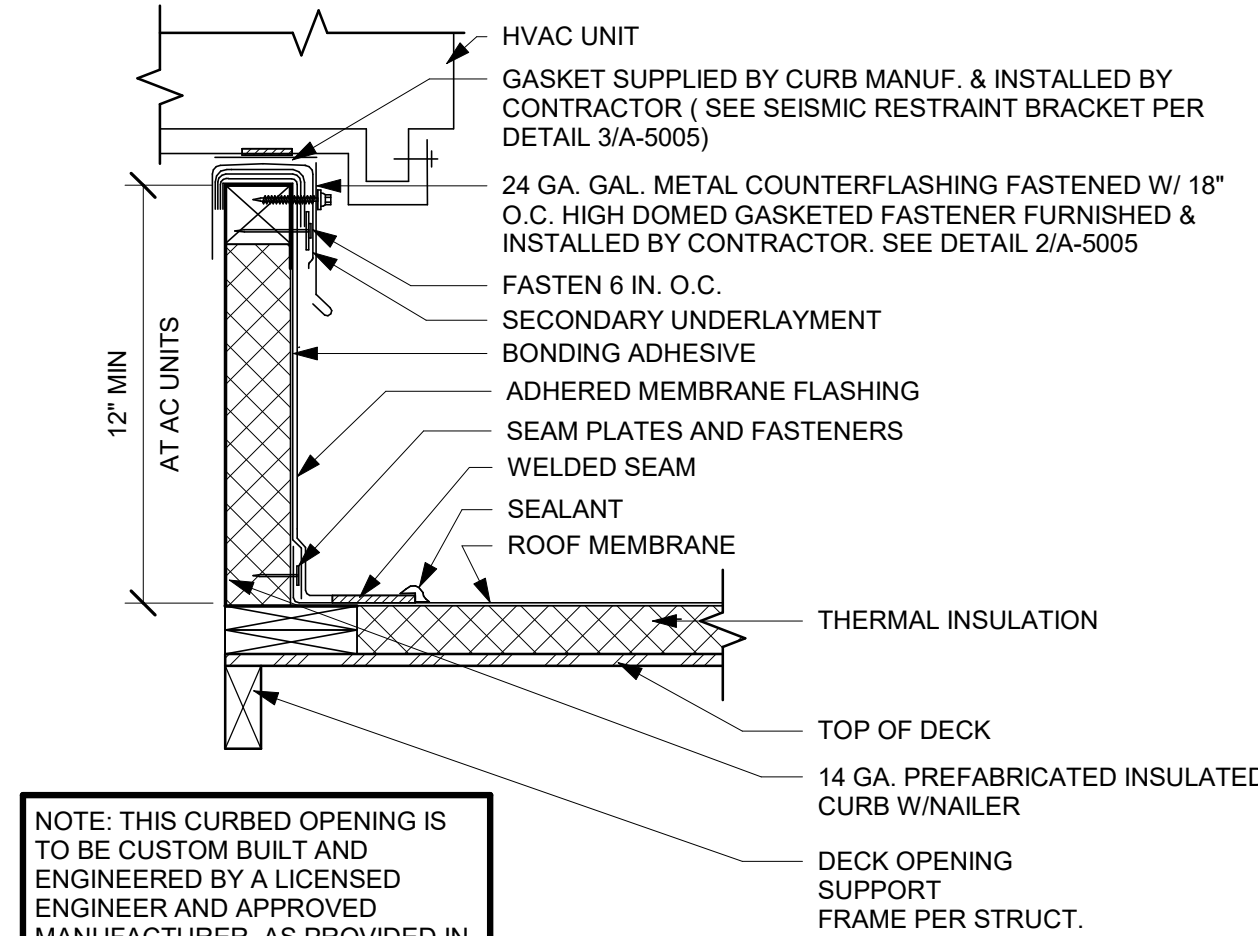
A5002

NOTE: MECHANICAL, PLUMBING AND ROOFING CONTRACTORS TO COORDINATE CURB HEIGHT WITH EQUIPMENT, TYPE OF DRAIN, ACTUAL DISTANCE FROM UNIT TO DRAIN AND AMOUNT OF CONDENSATE LINE FALL REQUIRES



12 HVAC CONDENSATE DRAIN

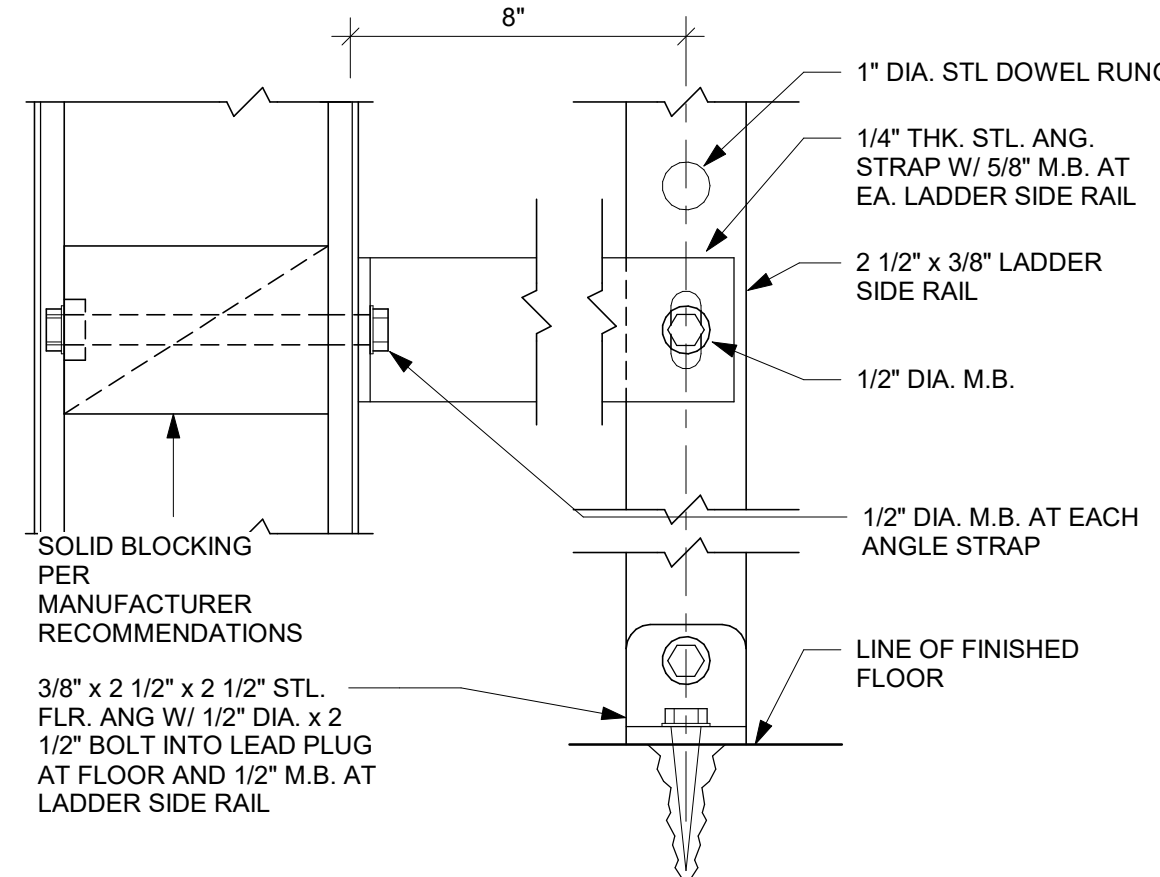
Scale: 1 1/2" = 1'-0"



13 HVAC UNIT CURB

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

NOTE: RUNG SPACING NOT TO EXCEED 14" O.C.

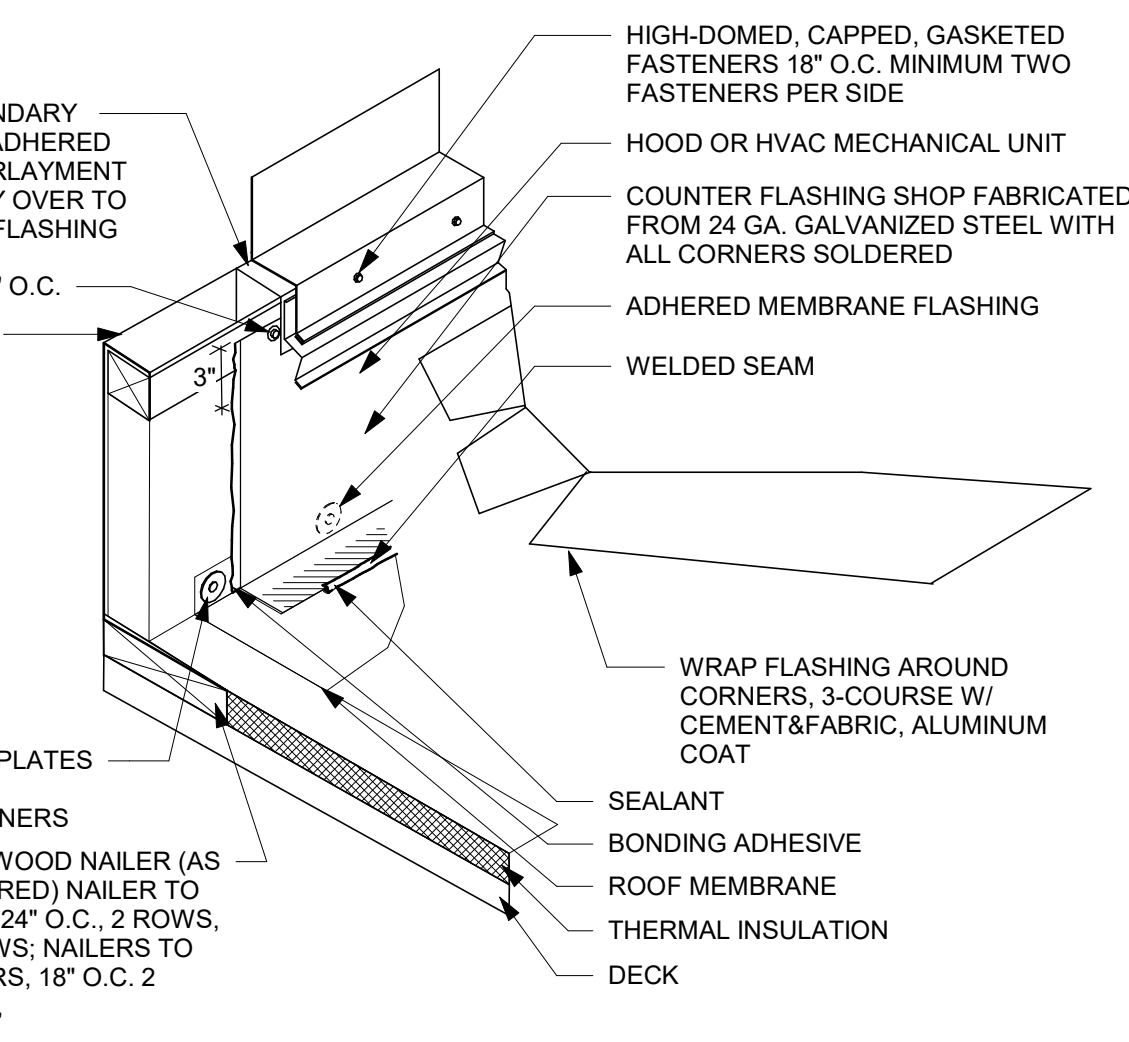


10 LADDER DETAIL

Scale: 3" = 1'-0"

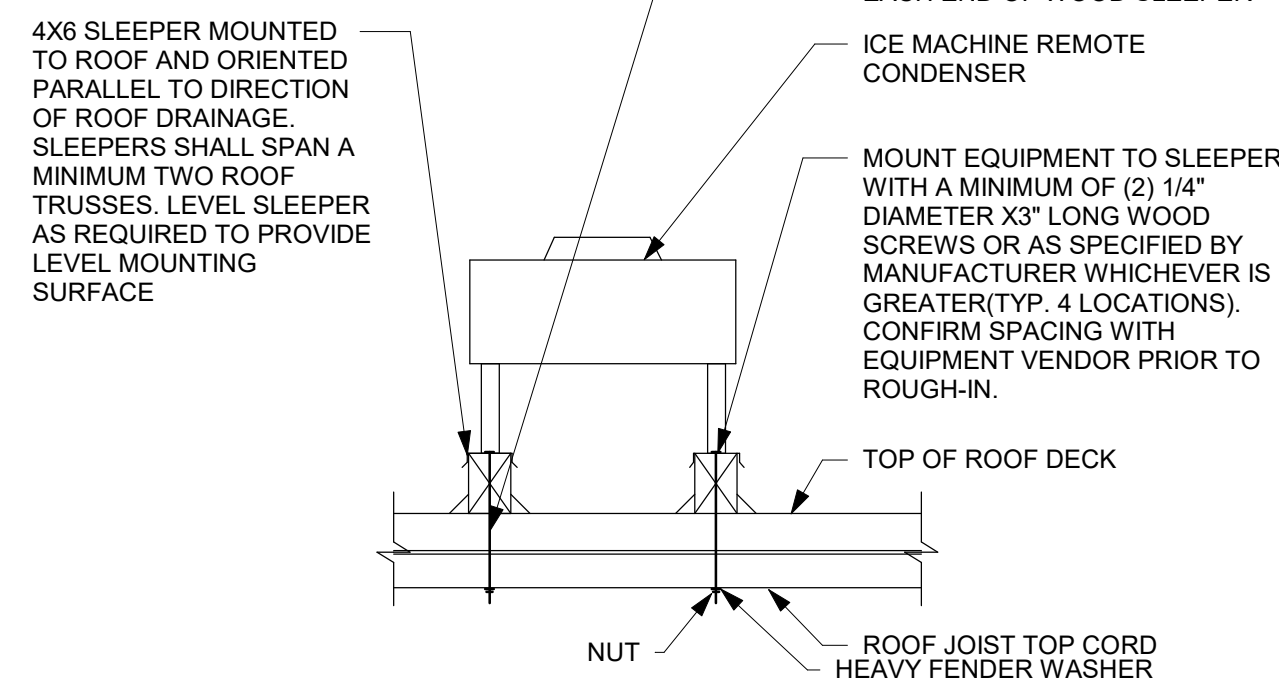
14 SEISMIC RESTRAINT BRACKET

Scale: 3" = 1'-0"



11 HVAC CURB FLASHING

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

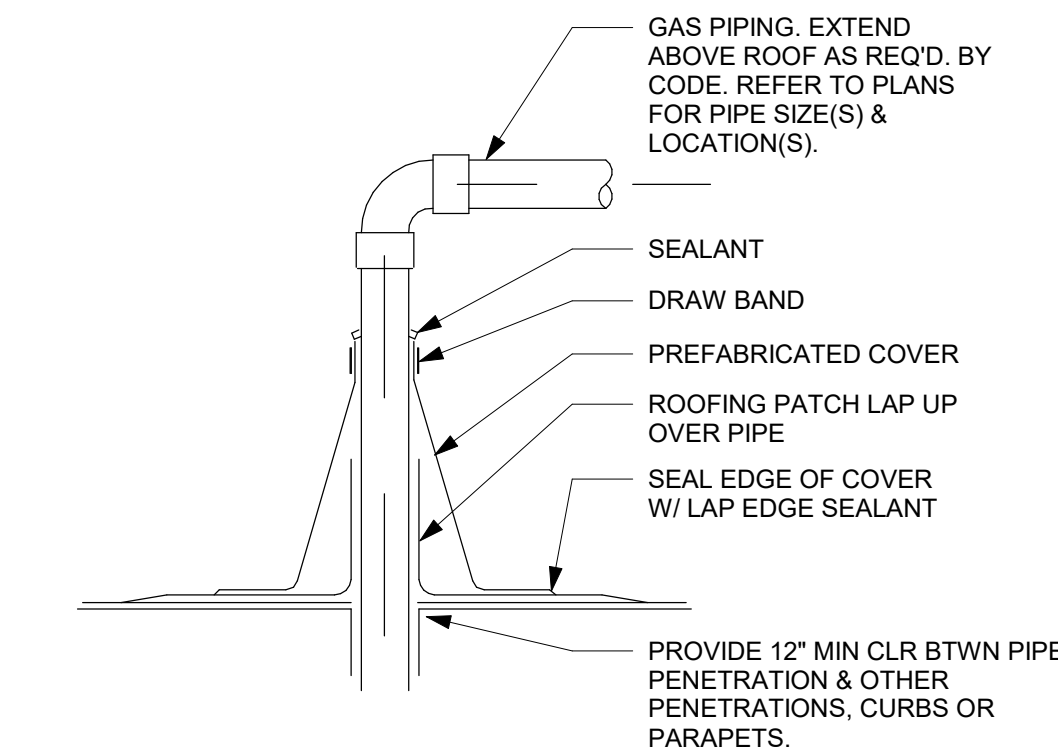


7 EQUIPMENT SUPPORT DETAIL

Scale: NTS

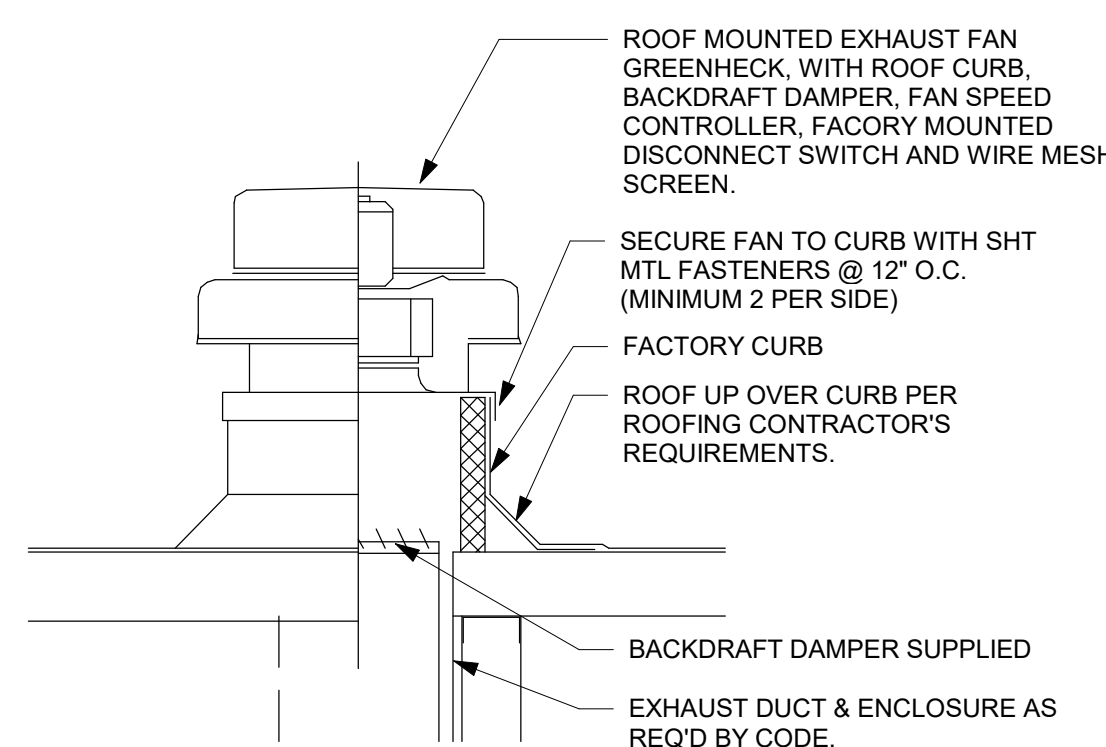
6 PIPE/ROOF PENETRATION DETAIL

Scale: 12" = 1'-0"



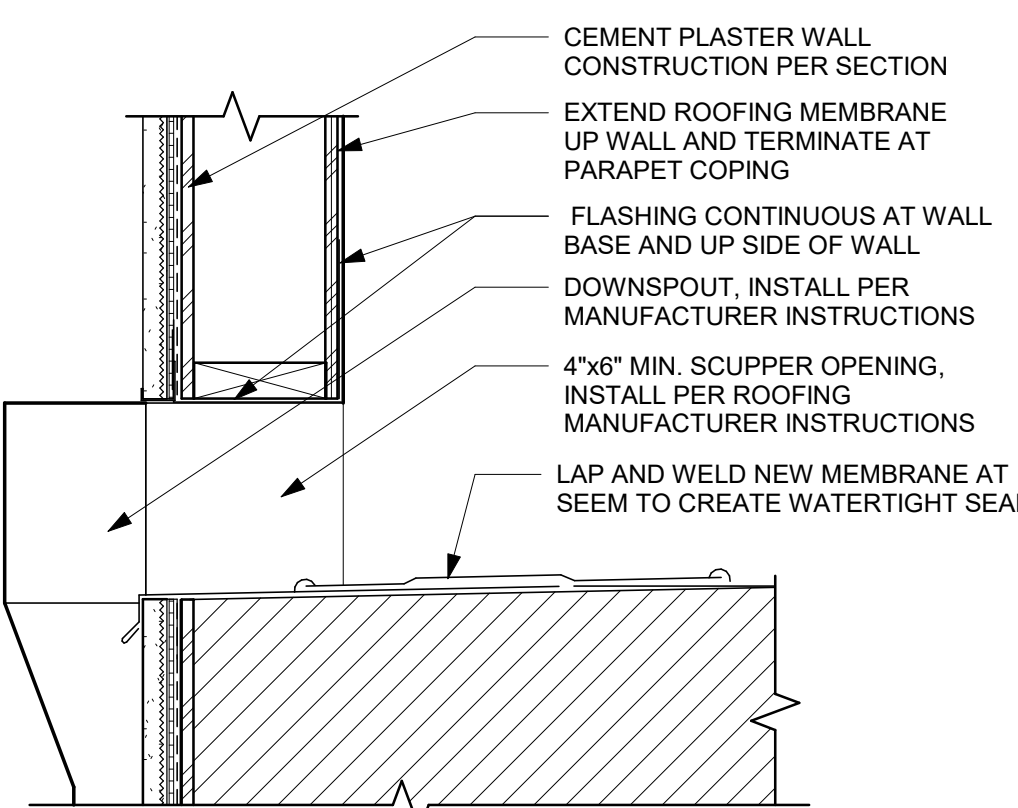
5 ROOF EXHAUST FAN

Scale: 12" = 1'-0"



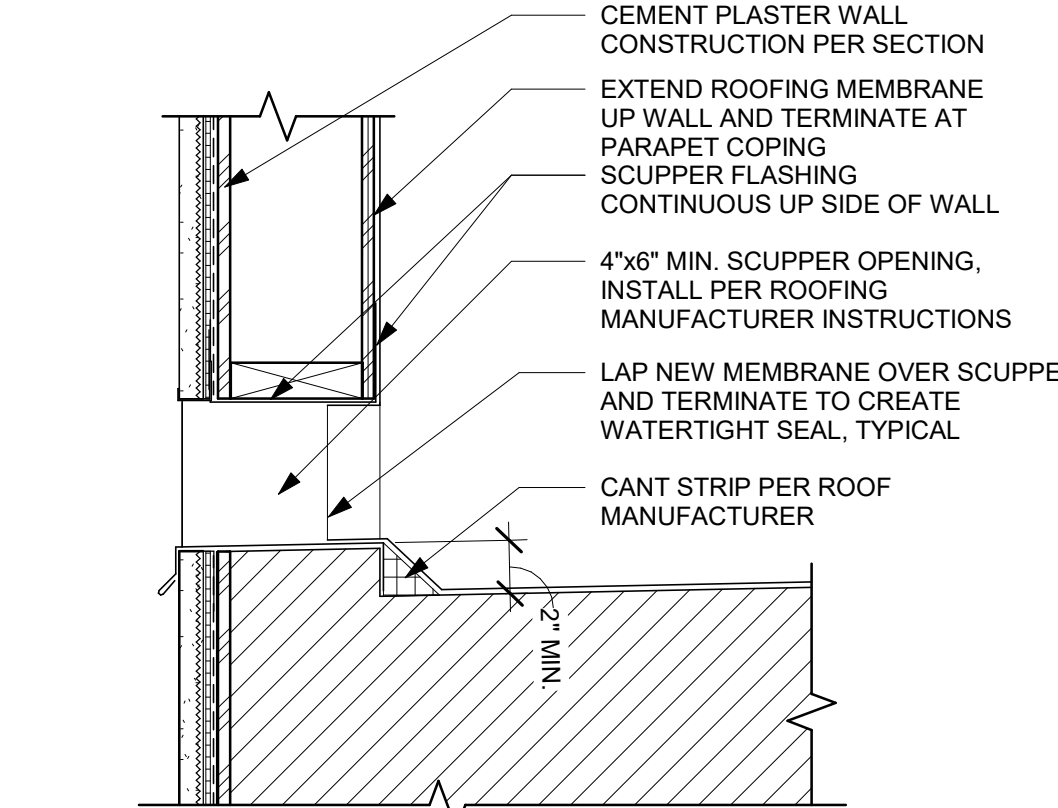
2 SCUPPER / DOWNSPOUT DETAIL

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



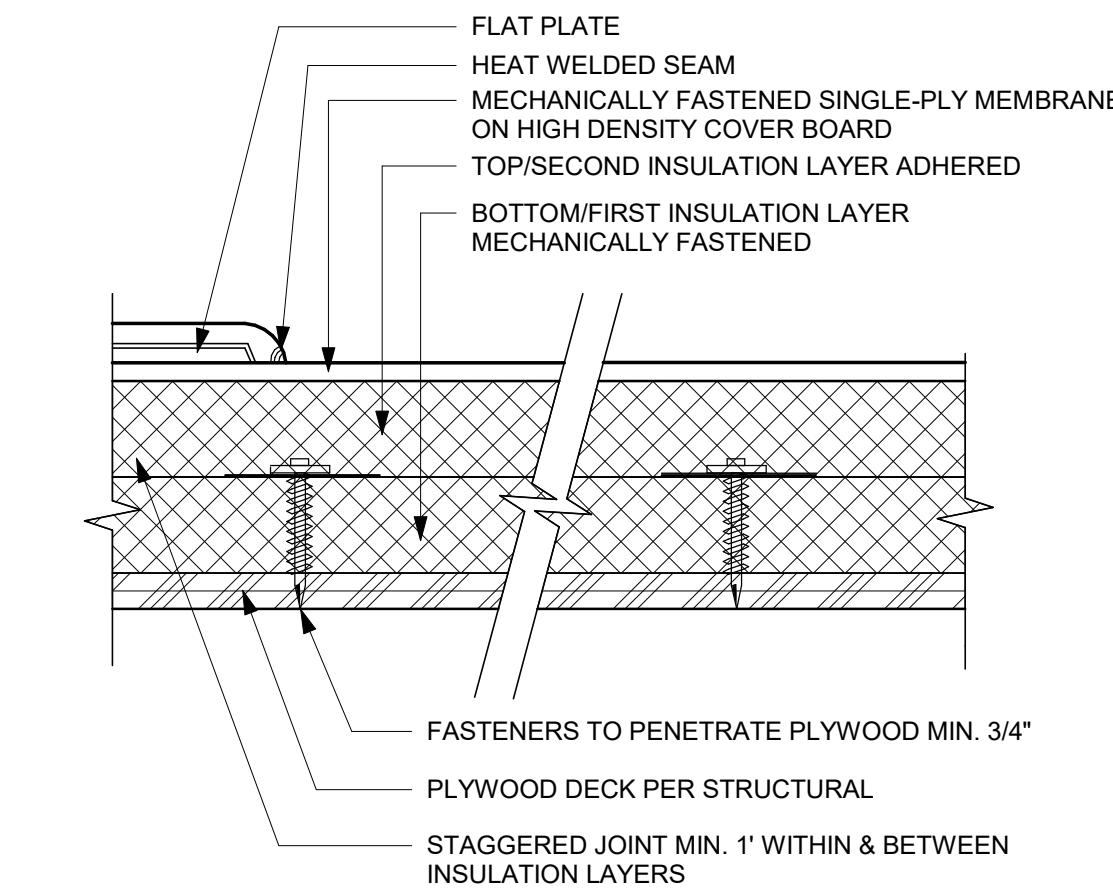
3 OVERFLOW SCUPPER DETAIL

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



4 ROOF SYSTEM ASSEMBLY

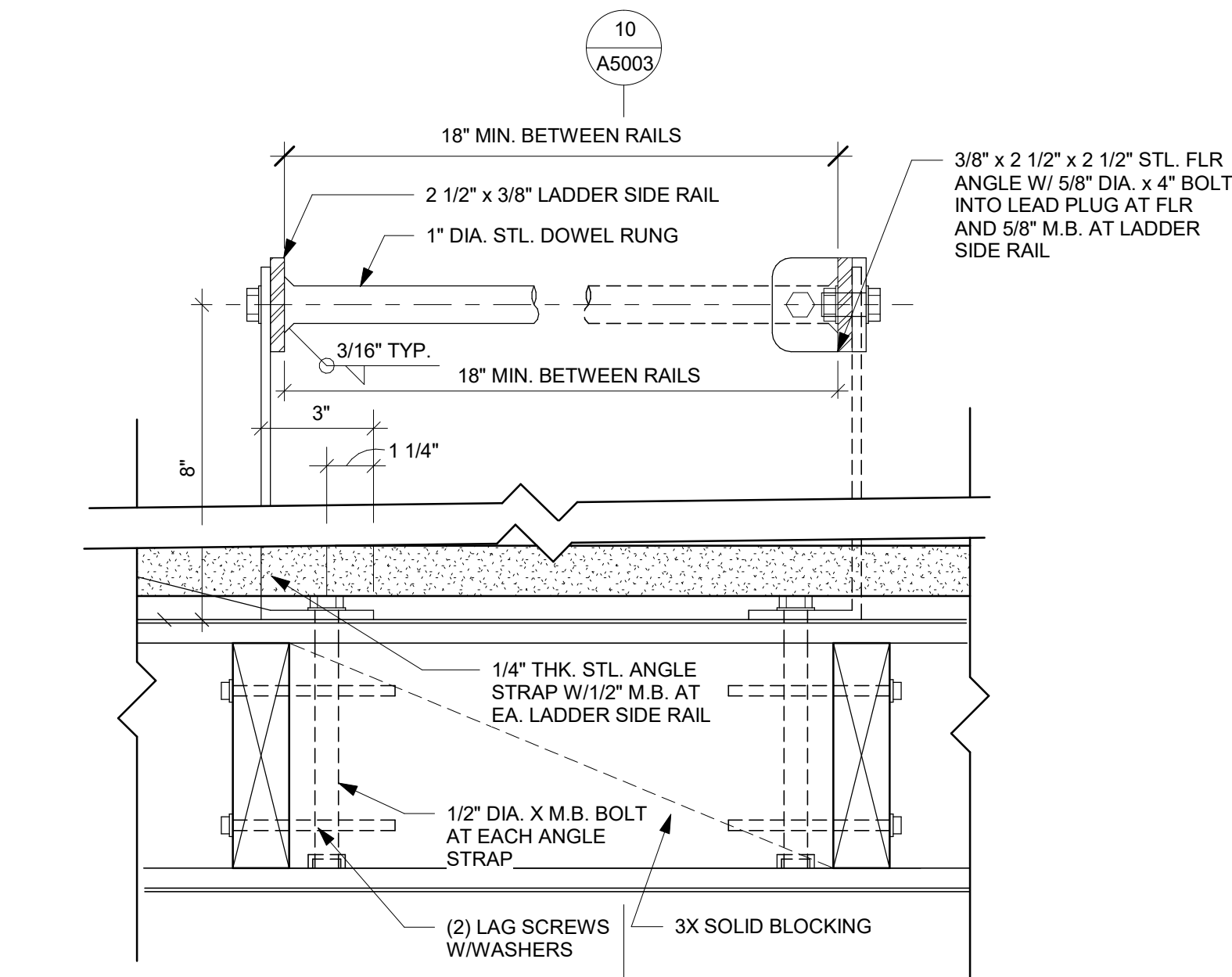
Scale: 3" = 1'-0"



NOTE: 1. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.
2. ROOFING SYSTEM TO BE CLASS "C" MIN.

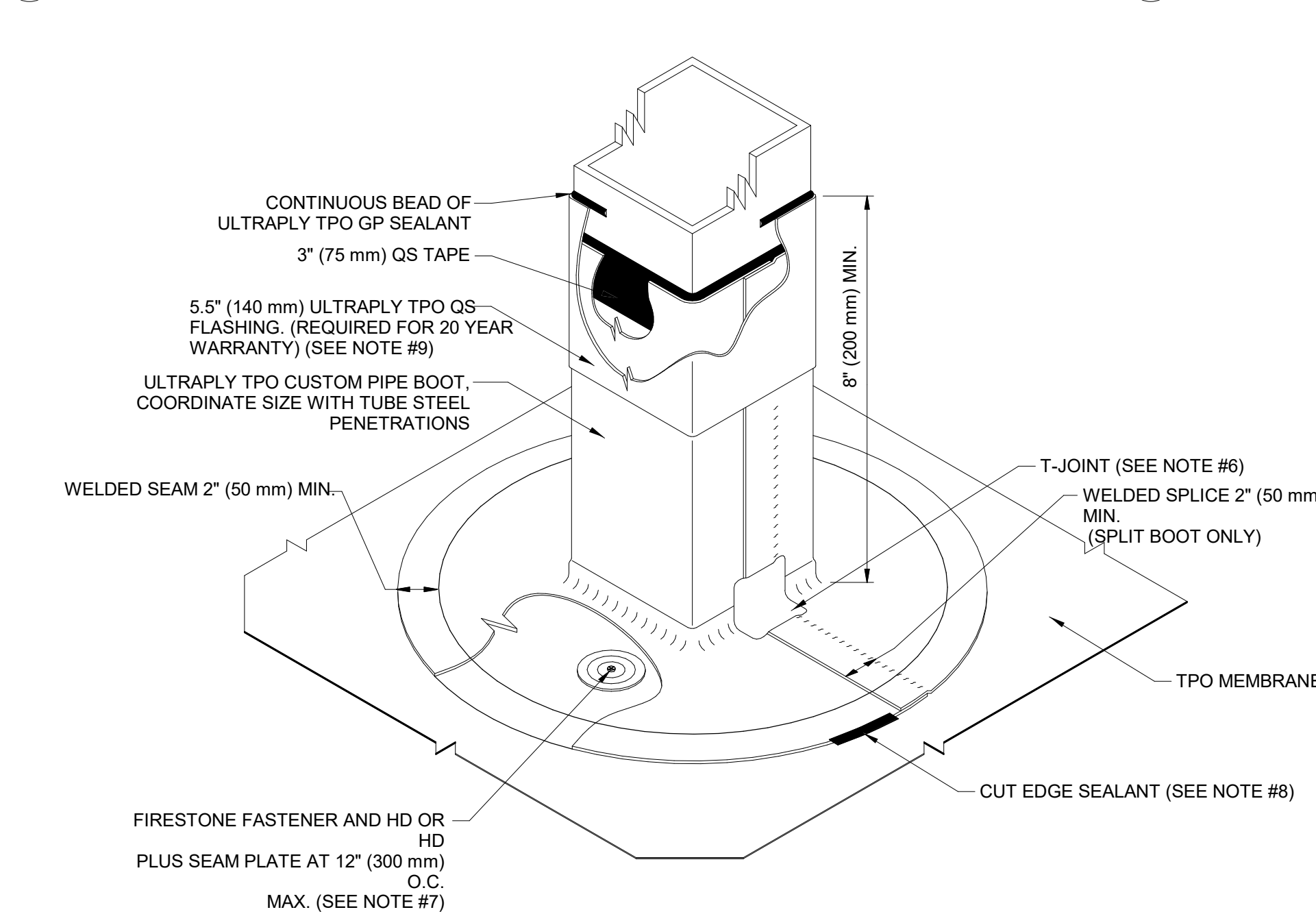
8 LADDER PLAN DETAIL

Scale: 3" = 1'-0"



1 SQUARE PENETRATION WITH SQUARE TPO PIPE BOOT DETAIL

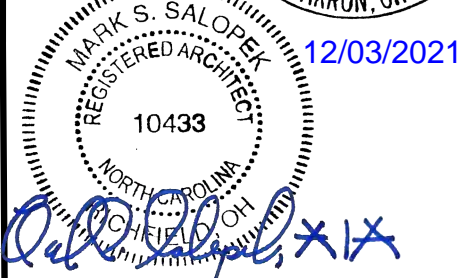
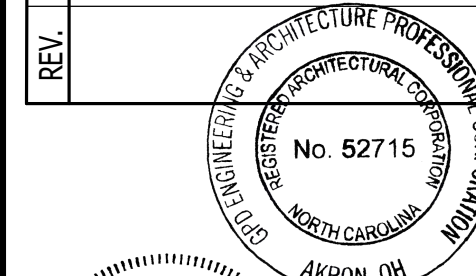
Scale: 1 1/2" = 1'-0"



NOTES *IF FIRESTONE TPO IS NOT SELECTED, USE DETAIL FROM TPO MANUFACTURER*

1. REFER TO FIRESTONE WEBSITE FOR THE MOST CURRENT INFORMATION.
2. REMOVE ALL EXISTING FLASHING, LEAD, ETC. PIPE SURFACE MUST BE FREE OF ALL RUST, GREASE, INSULATION, ETC.
3. PIPE MUST BE ANCHORED TO ENSURE
4. 3" (75 mm) QS TAPE MUST BE INSTALLED WITH ULTRAPLY TPO QUICKPRIME.
5. DO NOT USE WHEN SERVICE LINE TEMP. EXCEEDS 180°F. REFER TO UT-P-6 & UT-P-7.
6. T-JOINT PATCH REQUIRED AT ALL VERTICAL TRANSITIONS ON NON-FACTORY WELDS
7. FIRESTONE FASTENER AND HD SEAM PLATE REQUIRE FOR MAS ONLY. IF FASTENER CANNOT BE INSTALLED AS ILLUSTRATED, CONTACT ROOFING MANUFACTURER.
8. CUT EDGE SEALANT SHALL BE APPLIED TO ANY EDGES WHERE SCRIM REINFORCEMENTS IS EXPOSED PER DETAIL UT-LS-14.
9. FOR 20 YEAR WARRANTY, TOP TERMINATION OF SQUARE PIPE BOOT MUST BE FLASHED WITH 5.5" (140 mm) ULTRAPLY TPO QS FLASHING OVER THE 3" (75 mm) QS TAPE.

REV.	DATE	DESCRIPTION



12/03/2021
10433
REGISTERED ARCHITECT
MARK S. SALO, P.E.
AKRON, OH

BENSON SHELL
12321 NC-210
BENSON, NC 27504

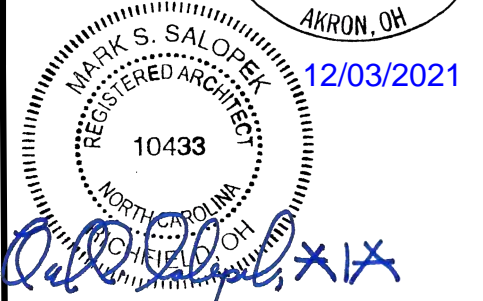
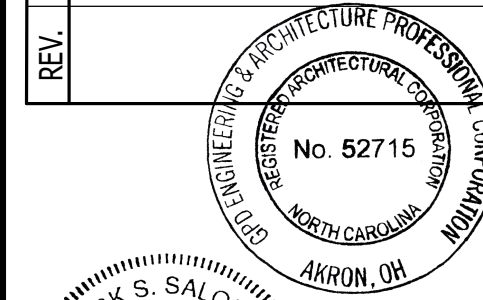
BUILDING DETAILS (ROOF)

PERMIT	DATE
	12/03/2021
BID	
PROJECT MANAGER	DESIGNER
AK	DB

JOB NO.
2021379.01

A5003

REV.	DATE	DESCRIPTION



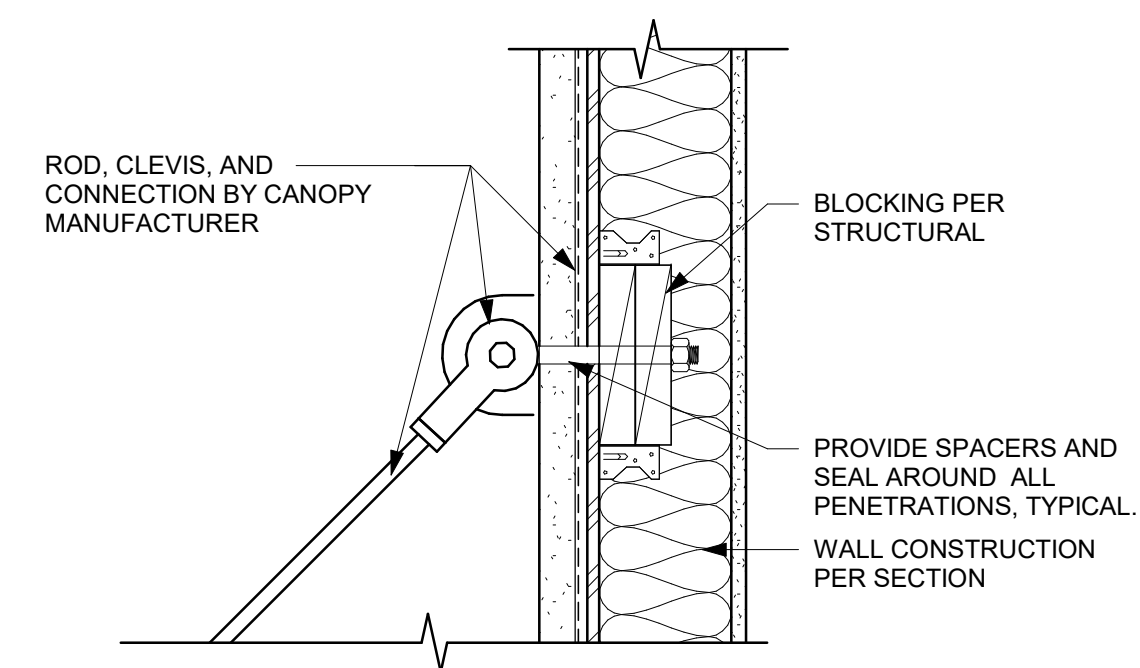
BENSON SHELL
12321 NC-210
BENSON, NC 27504

BUILDING DETAILS (CANOPY)

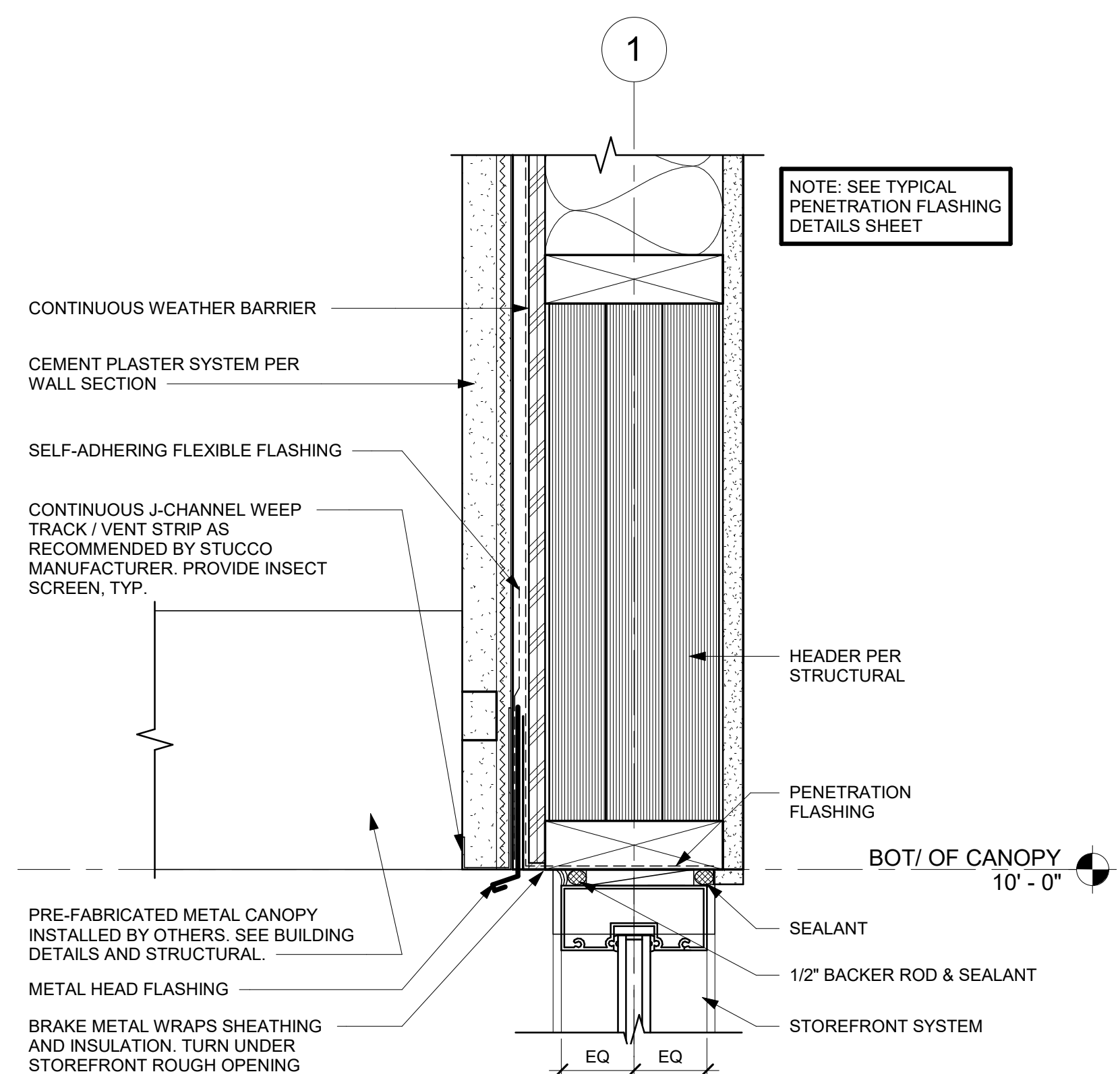
	DATE
PERMIT	12/03/2021
BID	---
PROJECT MANAGER	DESIGNER
AK	DB

JOB NO.
2021379.01

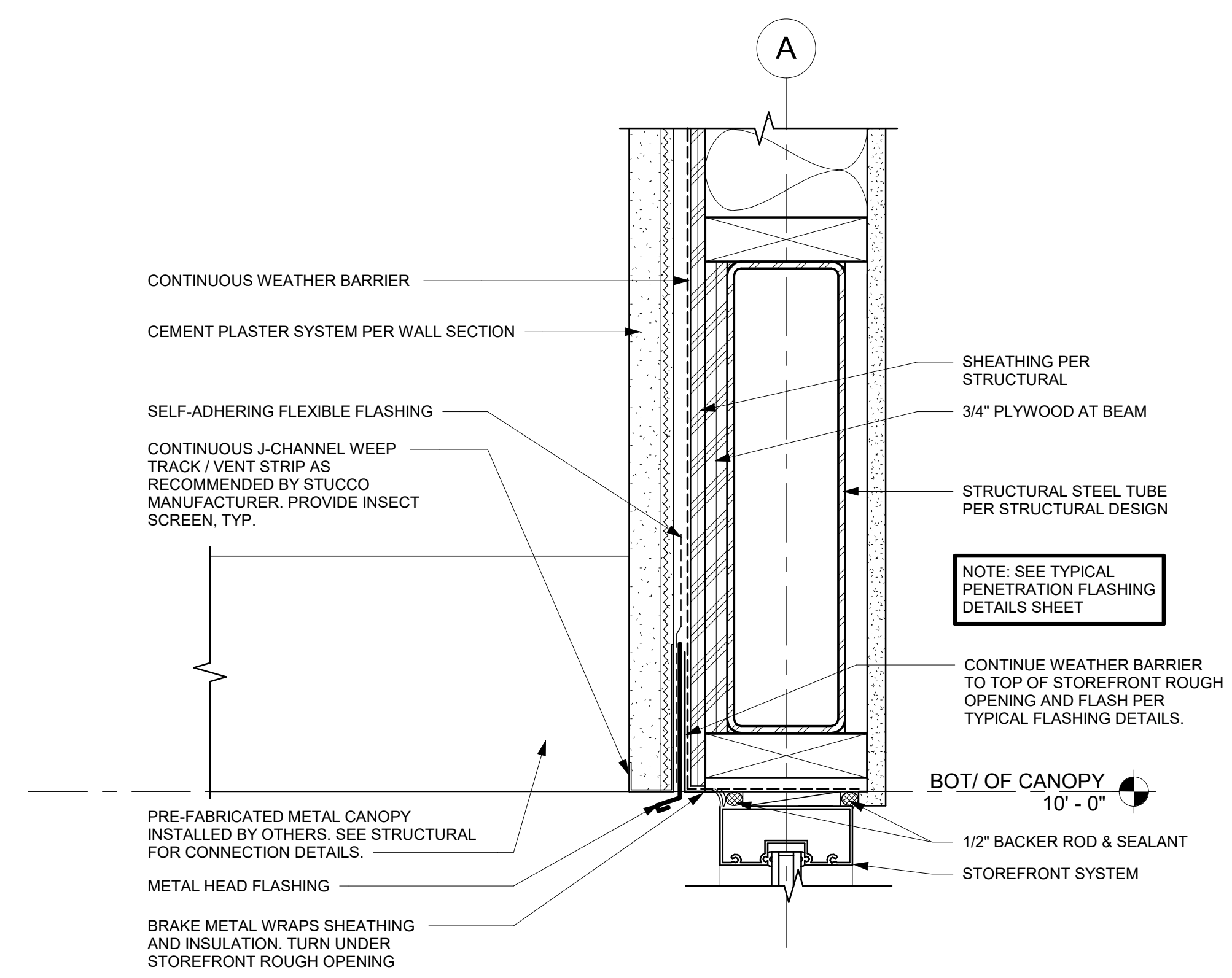
A5004



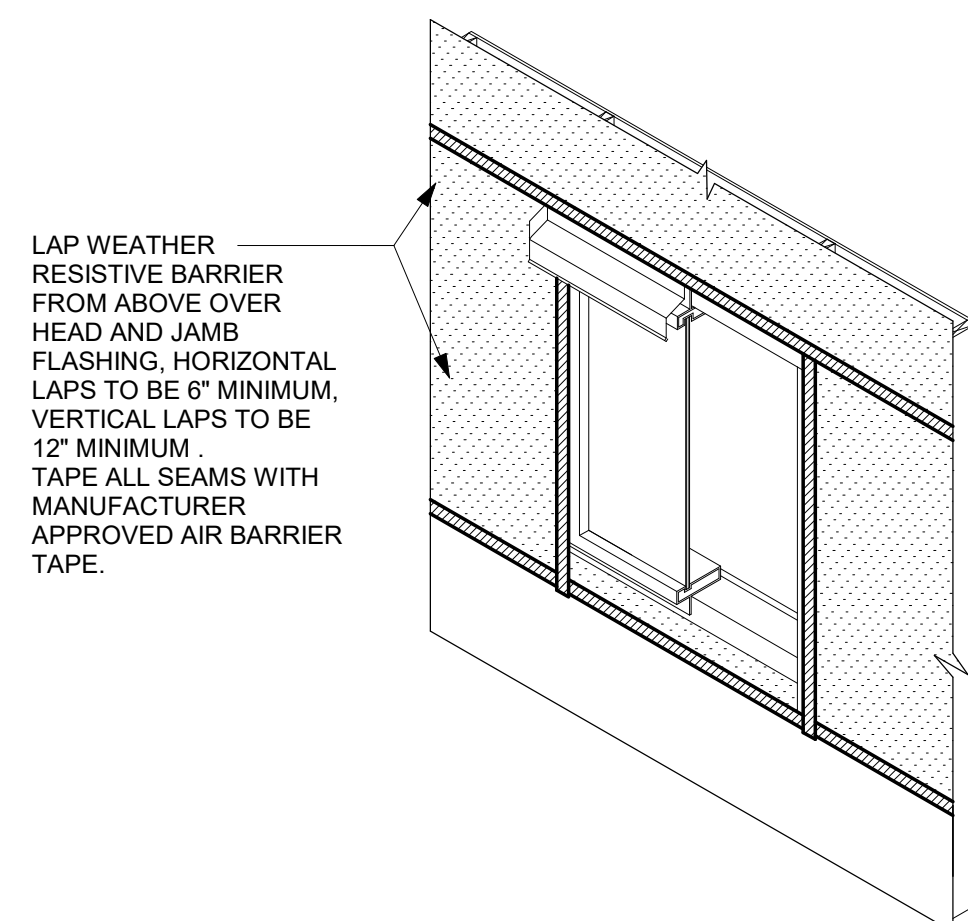
1 METAL PLATE ATTACHMENT
Scale: 1 1/2" = 1'-0"



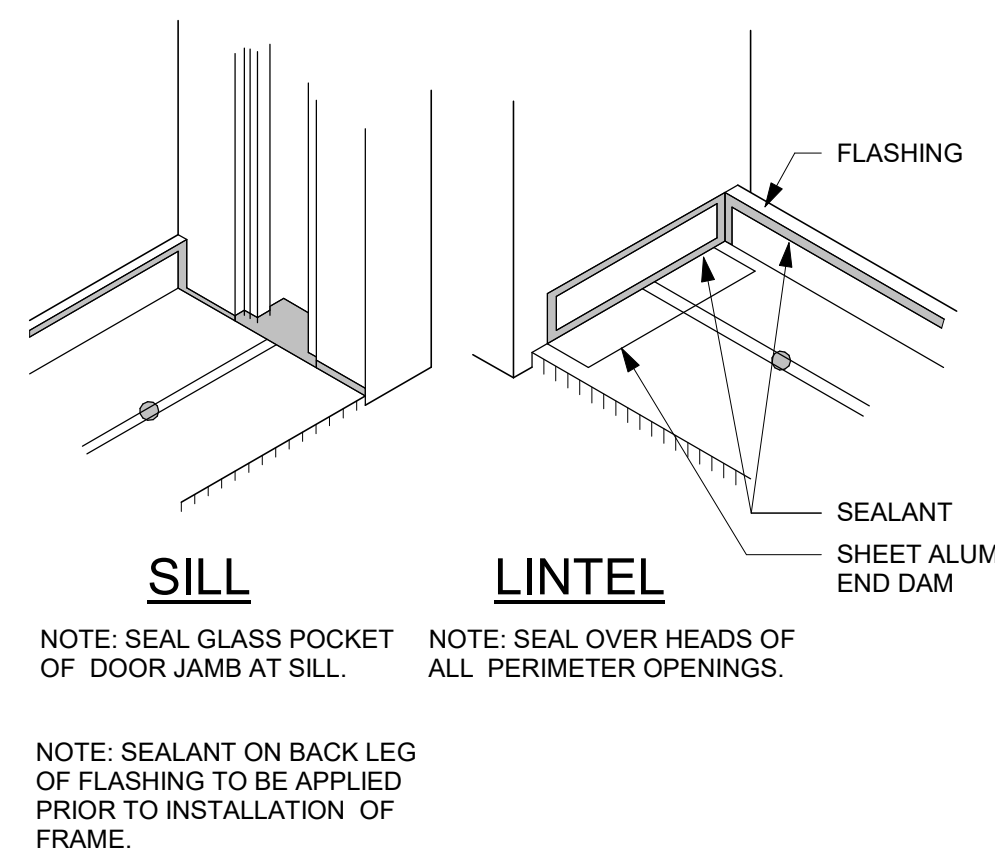
2 SECTION DETAIL AT ENTRANCE CANOPY
Scale: 3" = 1'-0"



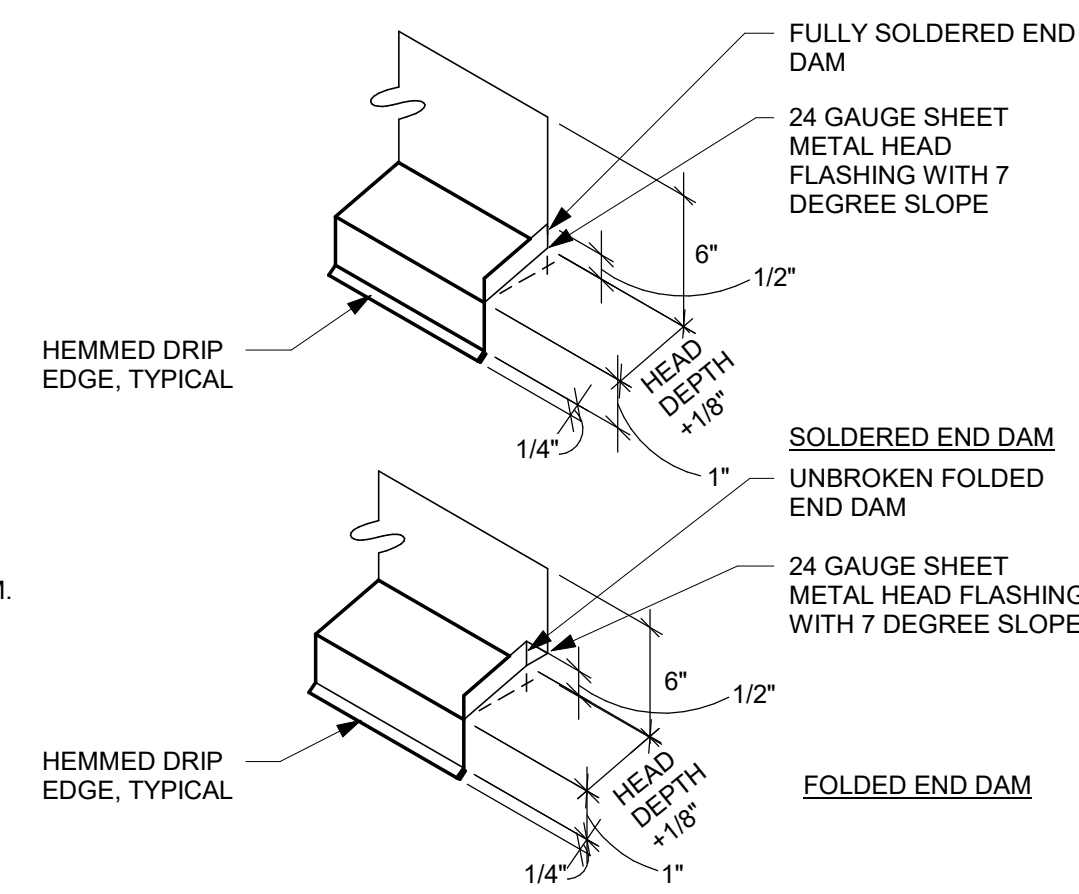
3 PATIO STOREFRONT HEAD (BETWEEN COLUMNS)
Scale: 3" = 1'-0"



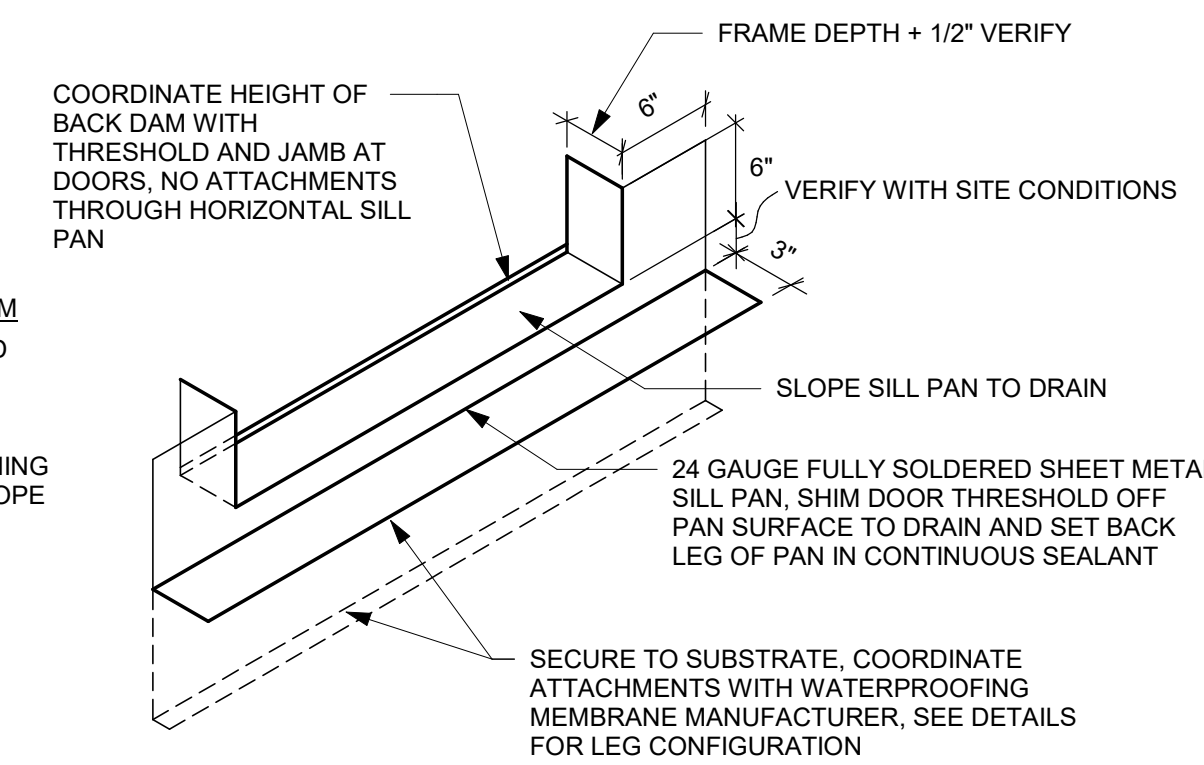
11 WEATHER RESISTIVE BARRIER
Scale: 3/8" = 1'-0"



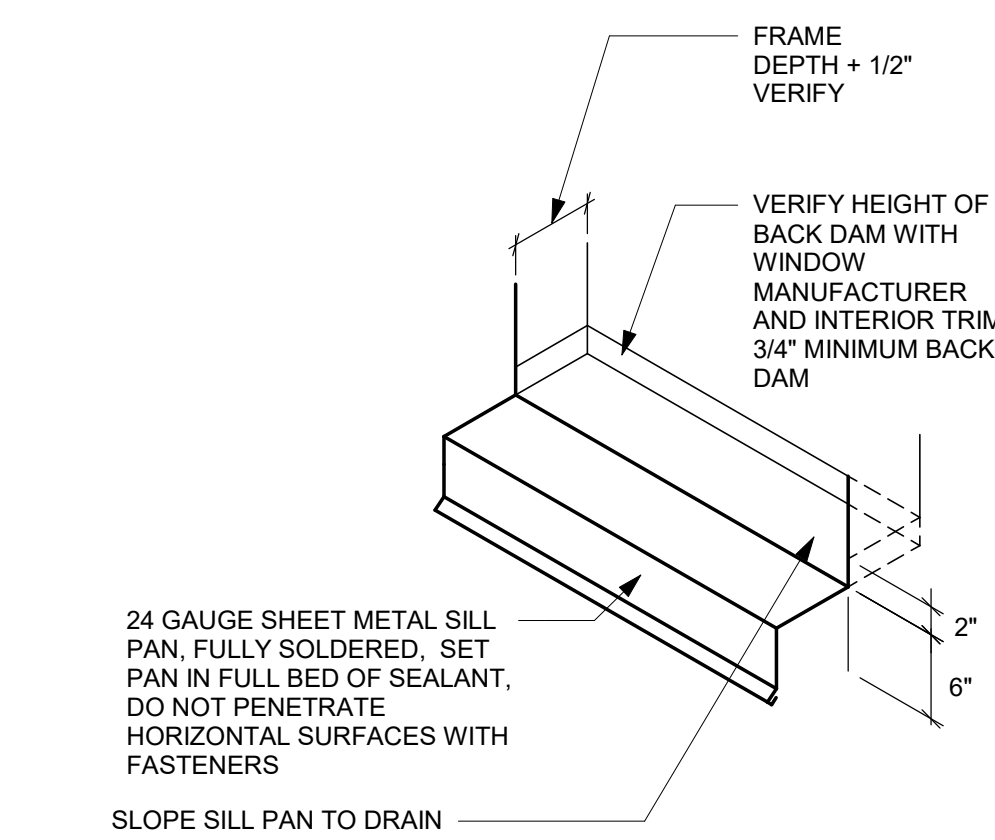
12 FLASHING DETAIL AT JAMB
Scale: 1 1/2" = 1'-0"



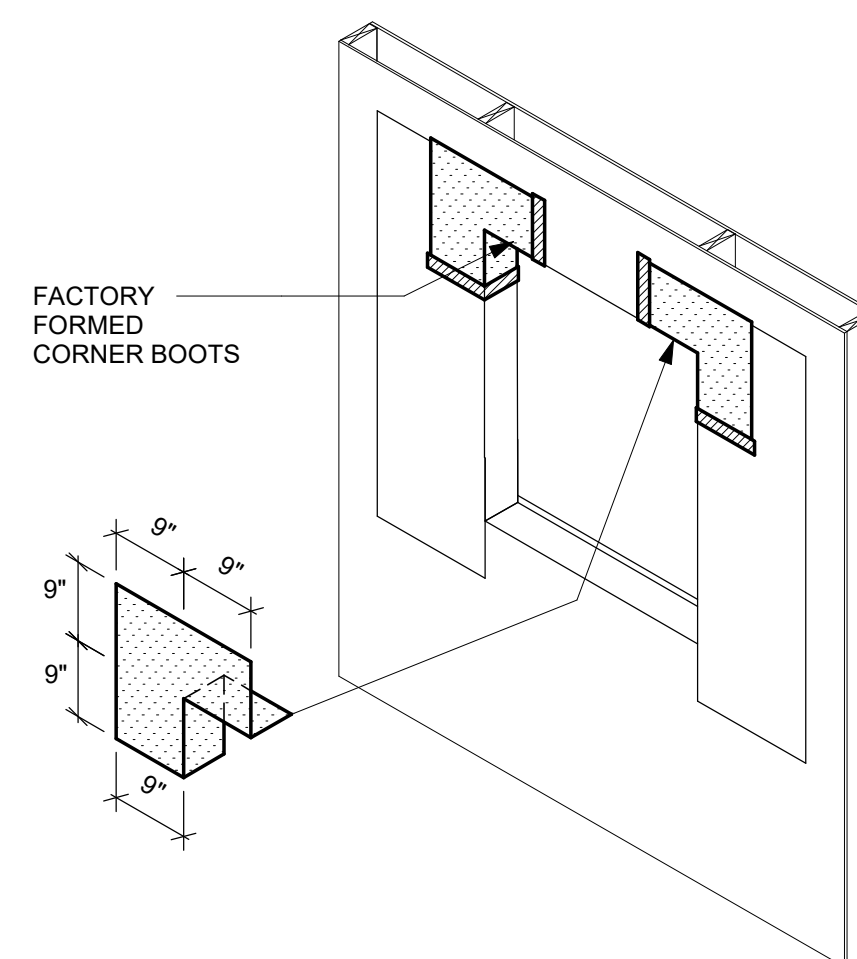
13 TYP. HEAD FLASHING
Scale: 3/4" = 1'-0"



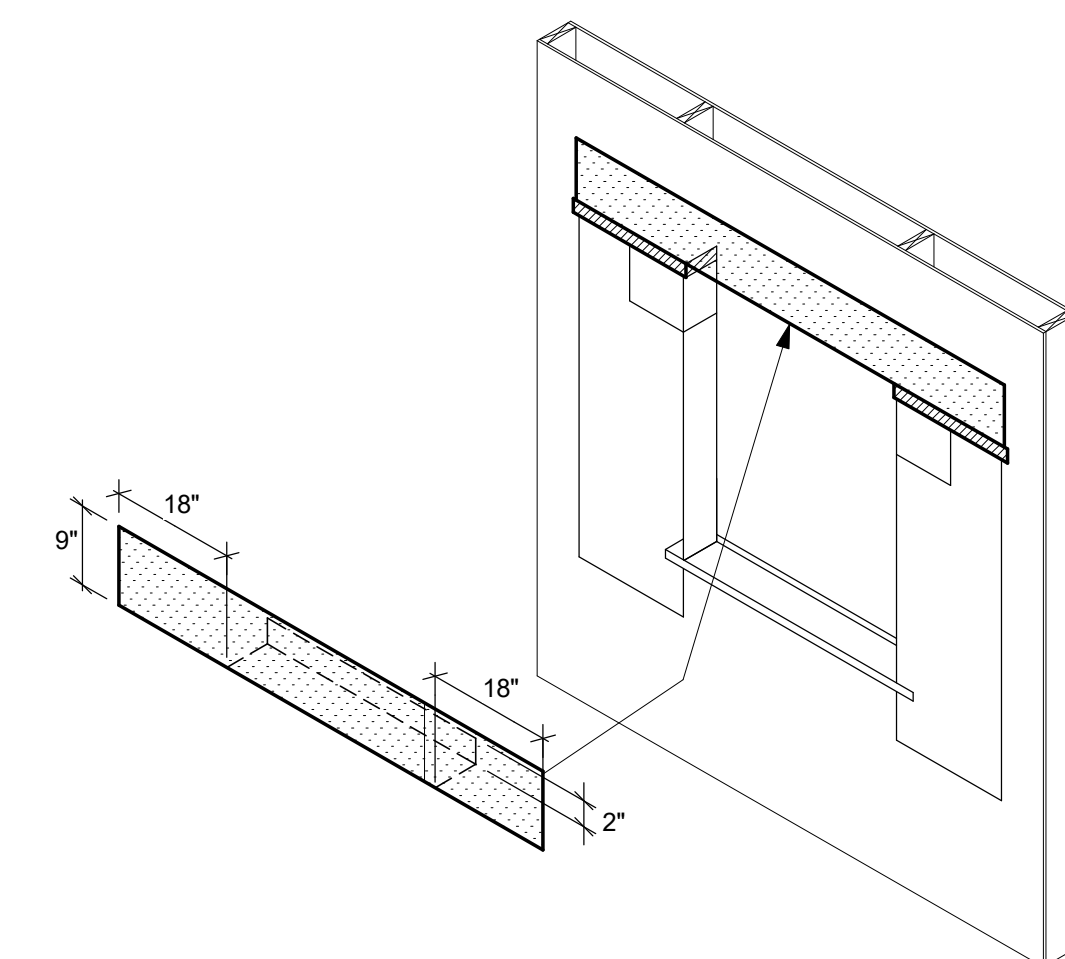
14 TYP. STOREFRONT & DOOR PAN (SHEET METAL)
Scale: 1" = 1'-0"



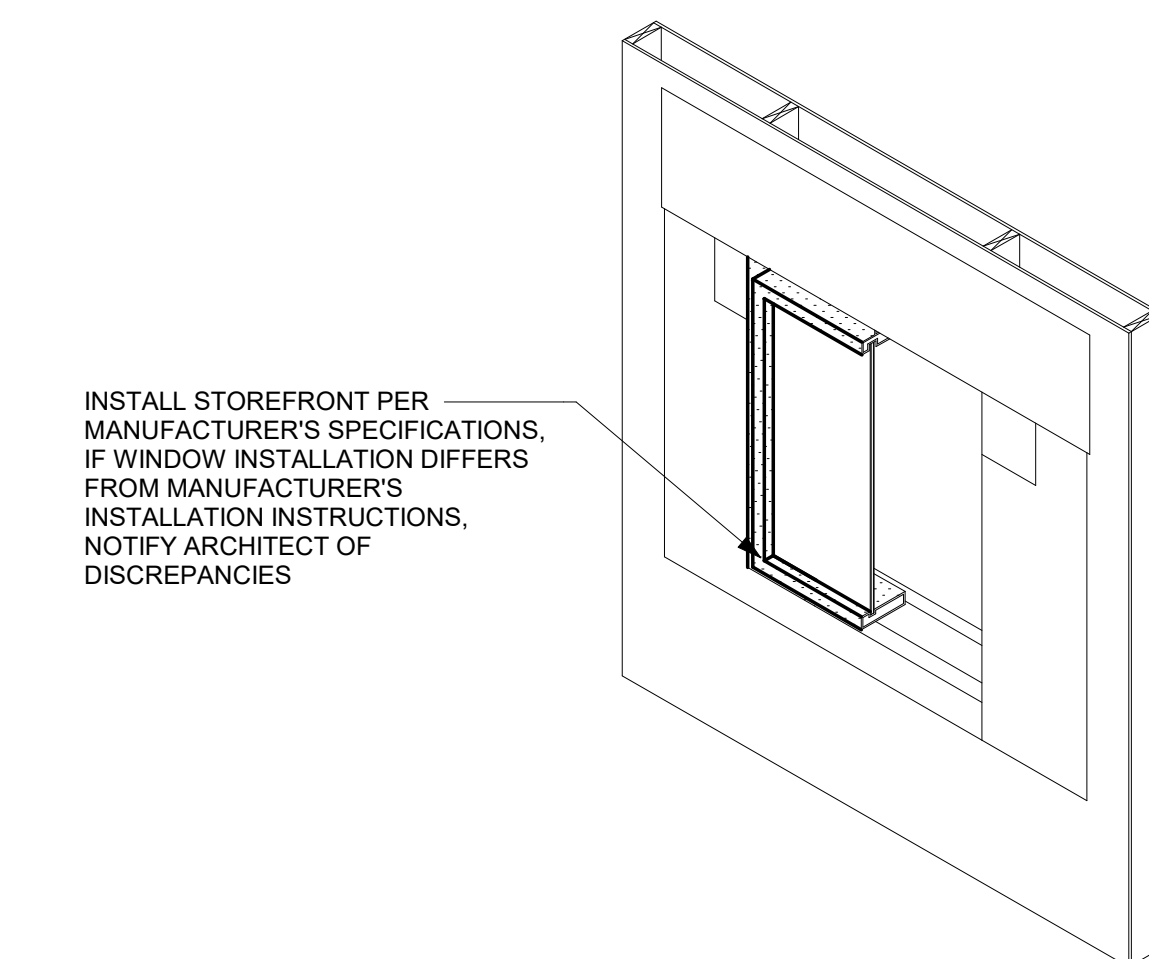
15 FLASHING - TYP. METAL WINDOW PAN
Scale: 1" = 1'-0"



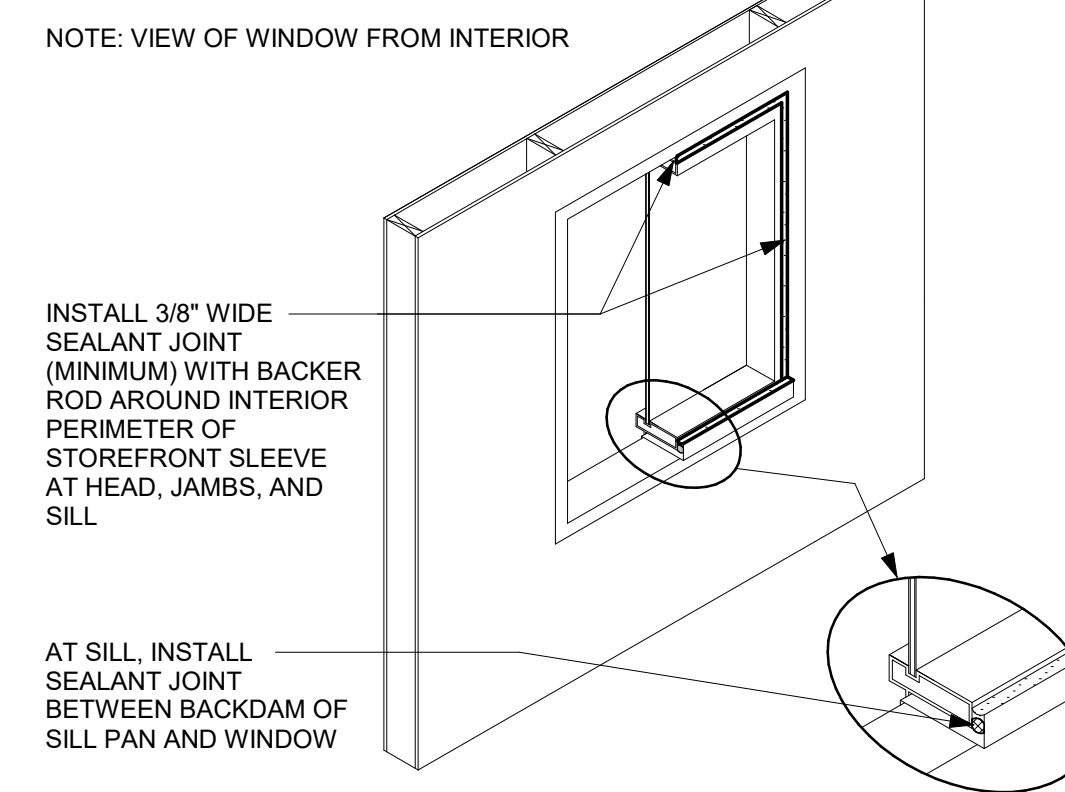
6 HEAD CORNER BOOTS
Scale: 3/8" = 1'-0"



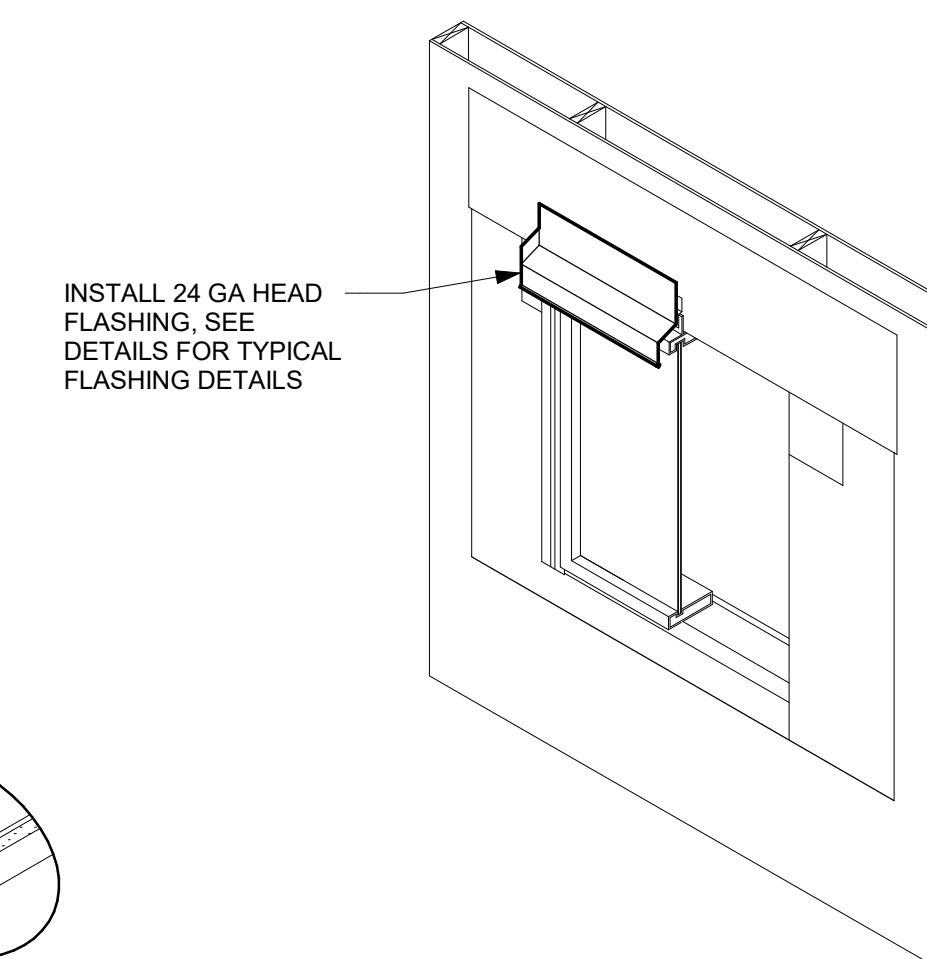
7 HEAD PENETRATION FLASHING
Scale: 3/8" = 1'-0"



8 STOREFRONT
Scale: 3/8" = 1'-0"

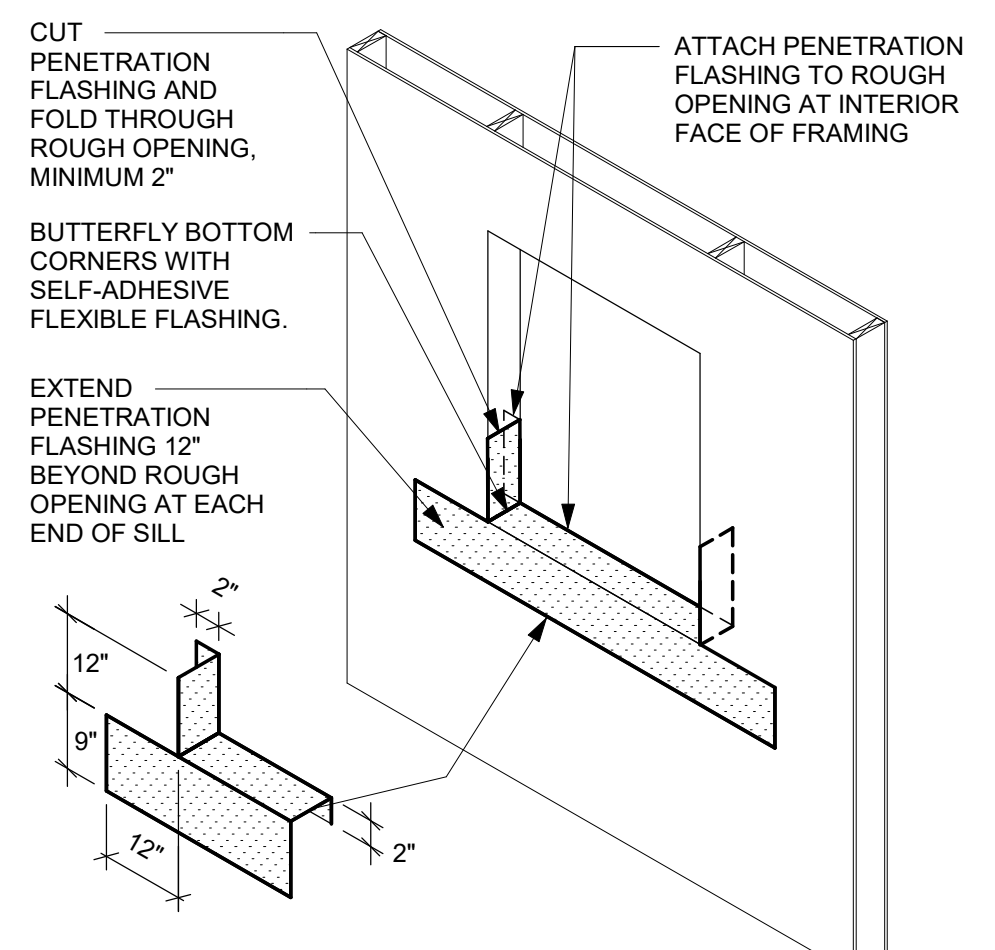


9 INTERIOR SEALANT JOINT
Scale: 3/8" = 1'-0"

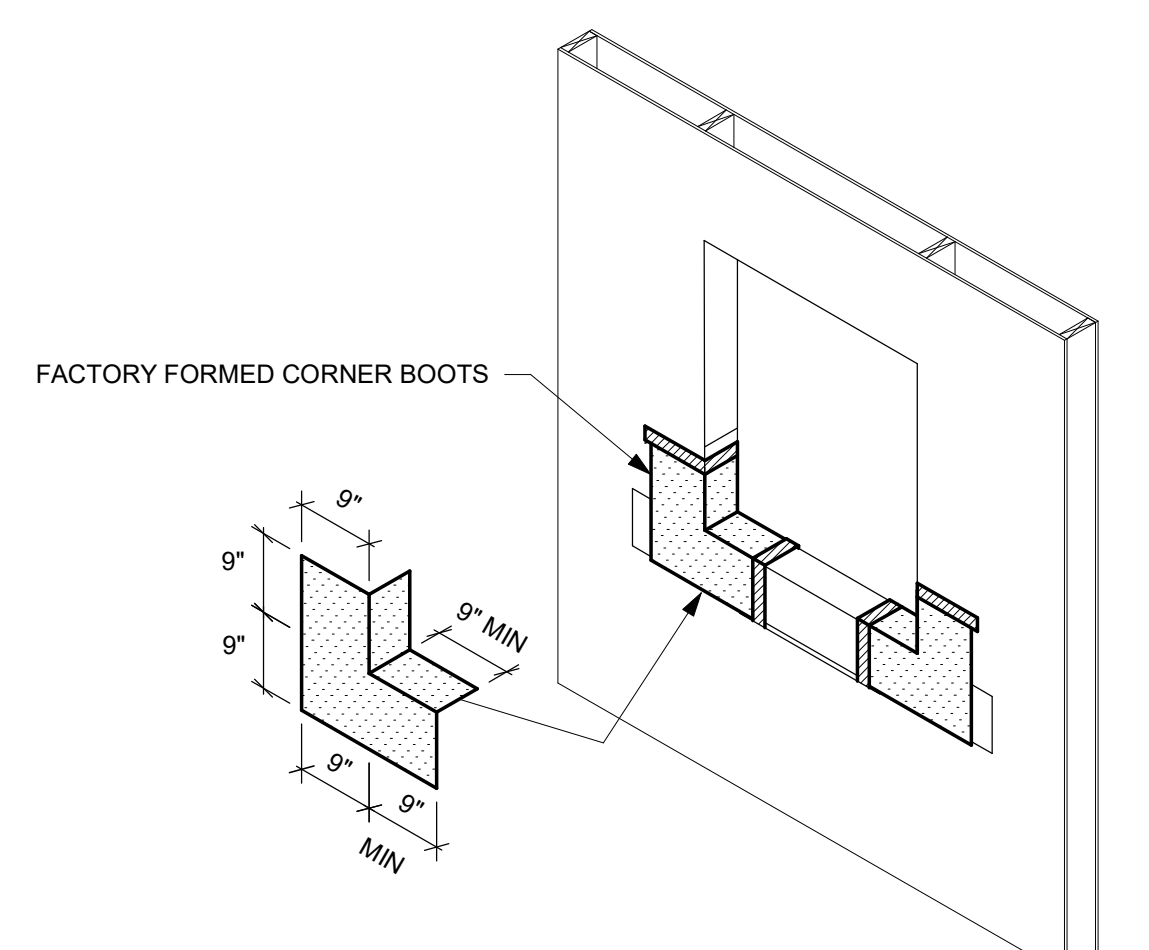


10 HEAD FLASHING
Scale: 3/8" = 1'-0"

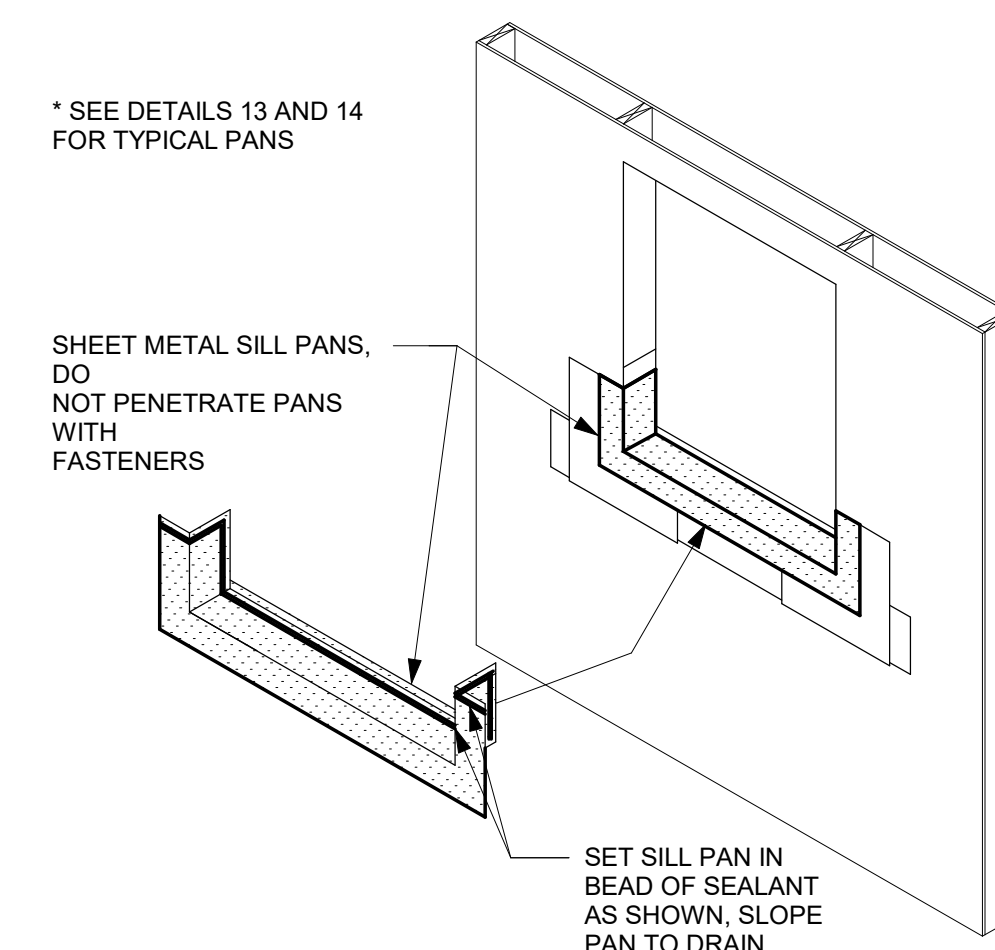
STOREFRONT & UNFLANGED DOORS
1. WRAP DOOR OPENINGS SIMILAR TO STEPS A THROUGH K. SEE ARCHITECTURAL DRAWINGS FOR HEAD FLASHING CONFIGURATIONS AND ADDITIONAL DETAILS. DO NOT PENETRATE SILL PAN WITH FASTENERS.



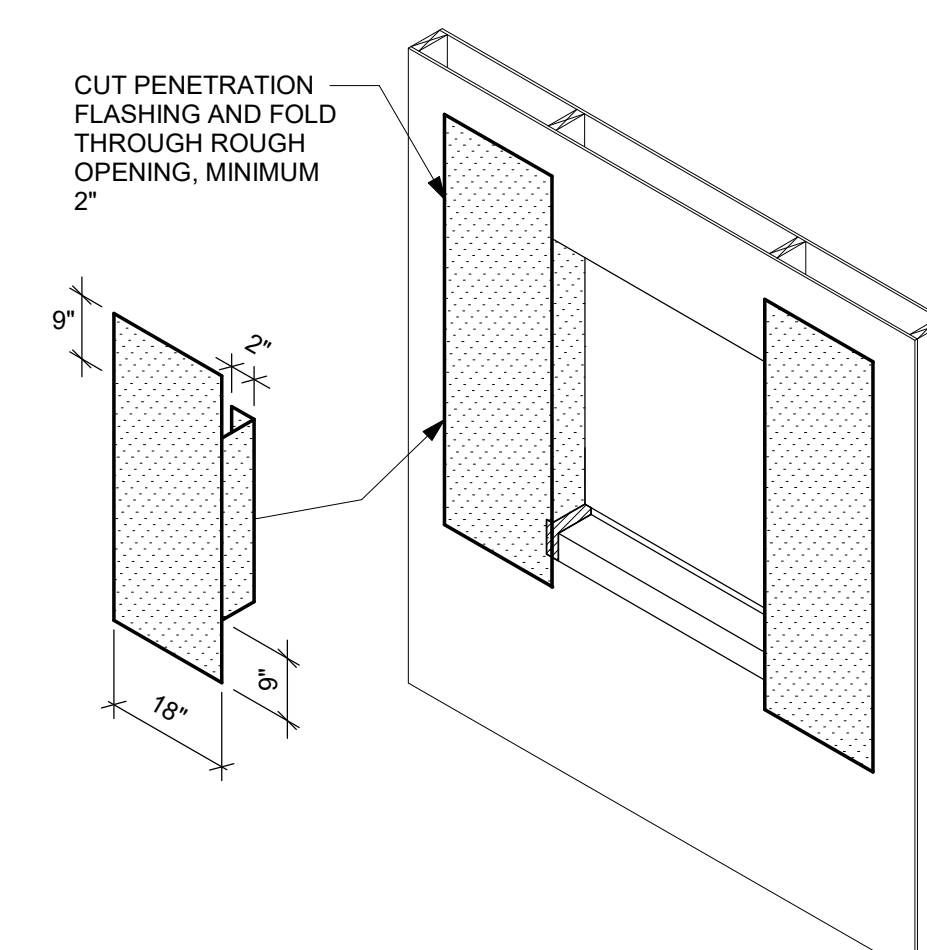
1 PENETRATION WRAP NOTES
Scale: 3/8" = 1'-0"



2 SILL PENETRATION FLASHING
Scale: 3/8" = 1'-0"



3 SILL CORNER BOOTS
Scale: 3/8" = 1'-0"



4 SILL PAN
Scale: 3/8" = 1'-0"

REV.	DATE	DESCRIPTION



12/03/2021
10433

MARK S. SALOMONE
REGISTERED ARCHITECT
10433

TYPICAL PENETRATION FLASHING DETAILS
BENSON SHELL
12321 NC-210
BENSON, NC 27504

PERMIT	DATE
	12/03/2021
BID	
PROJECT MANAGER	DESIGNER
AK	DB

JOB NO.
2021379.01

A6001

1

2

3

4

5

D

C

B

A

EXTERIOR DOOR SCHEDULE - "D"

DESIGN ID	COUNT	DESCRIPTION	HEIGHT	WIDTH	FINISH	COMMENTS
DOOR						
10205	1	DOOR - STOREFRONT METAL FRAME SINGLE - TYPE B	7' - 0"	3' - 0"	ANODIZED	HARDWARE TYPE 2-A
10449	1	DOOR - STOREFRONT METAL FRAME DOUBLE - TYPE A	7' - 0"	6' - 0"	ANODIZED	HARDWARE TYPE 2
X10111	1	HOLLOW METAL EXTERIOR SERVICE DOOR - TYPE C	7' - 0"	3' - 6"	DESIGNER TO SPECIFY	HARDWARE TYPE 12

EXTERIOR DOOR LEGEND

MIN. 10"

STOREFRONT DOUBLE DOOR (MAIN ENTRY) TYPE A

MIN. 10"

STOREFRONT SINGLE DOOR (PATIO) TYPE B

4' - 6"

SERVICE DOOR (BACK OF HOUSE) TYPE C

DOOR HARDWARE SET NO. 2-A - For new single aluminum secondary entry/exit door (50 or more occupancy)

No.	Item	Description	Manufacturer	Finish
3	Hanging Devices	TH2314/MPB91	McKinney	630
1	Securing Devices	CD35A-NL-OP Panic Device	Von Duprin	628/630
2	Securing Devices	C607 7-Pin Core Combined "A" Keyway	Falcon Lock	626
1	Securing Devices	KB609-2 Cut Control Key "A" Keyway	Falcon Lock	---
9	Securing Devices	KB632-2 Cut User Key "A" Keyway	Falcon Lock	---
1	Securing Devices	C953 7-Pin Mortise Cylinder Housing	Faloon Lock	626
1	Securing Devices	C987 7-Pin Mortise Cylinder Housing w/AR Cam	Falcon Lock	626
1	Securing Devices	A08794-003 Adjustable Ring, Mortise Cyl. 5/16-13/32	Falcon Lock	626
1	Operating Trim	108 Door Pull Handle	Rockwood	630
1	Closing Devices	8916 Door Closer 8916 AF89P AL	Dorma	689
1	Stops and Holders	473 Door Stop w/Hook	Rockwood	626
1	Threshold	325 Half Saddle Threshold	National Guard	---
1	Sign	Vinyl Sign: "THIS DOOR MUST REMAIN UNLOCKED WHEN BUILDING IS OCCUPIED"	Seton	---

*DOOR HARDWARE FINISH TO MATCH ADJACENT STOREFRONT FINISH, IF AVAILABLE.

DOOR HARDWARE SET NO. 3-A - For pair aluminum main entry/exit doors (300 or less occupancy)

No.	Item	Description	Manufacturer	Finish
6	Hanging Devices	TH2314/MPB91	McKinney	630
1	Securing Devices (active leaf)	MS1850S Deadbolt	Adams Rite	626
1	Securing Devices (inactive...	MS1880 Two-Point Flushbolt	Adams Rite	626
2	Securing Devices (active leaf)	C607 7-Pin Core Combined "A" Keyway	Falcon Lock	626
1	Securing Devices (active leaf)	KB609-2 Cut Control Key "A" Keyway	Falcon Lock	---
9	Securing Devices (active leaf)	KB632-2 Cut User Key "A" Keyway	Falcon Lock	---
2	Securing Devices (active leaf)	C987 7-Pin Mortise Cylinder Housing w/AR Cam	Falcon Lock	626
2	Securing Devices (active leaf)	A08794-003 Adjustable Ring, Mortise Cyl. 5/16-13/32	Falcon Lock	626
2	Operating Trim	108 Door Pull Handle	Rockwood	630
2	Operating Trim	48 Push Bar x 31	Rockwood	630
2	Closing Devices	8916 Door Closer 8916 AF89P AL	Dorma	689
2	Stops and Holders	473 Door Stop w/Hook	Rockwood	626
2	Accessories	Door Sweep 18062CNB36	Pemko	A
1	Threshold	325 Half Saddle Threshold	National Guard	---
1	Sign	Vinyl Sign: "THIS DOOR MUST REMAIN UNLOCKED WHEN BUILDING IS OCCUPIED"	Seton	---

*DOOR HARDWARE FINISH TO MATCH ADJACENT STOREFRONT FINISH, IF AVAILABLE.

DOOR HARDWARE SET NO. 12 - For secondary 36" wide service door

No.	Item	Description	Manufacturer	Finish
3	Hanging Devices	TH2314/MPB91 Hinge MacPro Bearing 4.5 x 4.5	McKinney	630
1	Securing Devices	C607 7-Pin Core Combined "A" Keyway	Falcon Lock	626
1	Securing Deices	I/O 2000L-03IC Auto Locking Door Alarm, IC: No CTR Includes Mortise Cylinder	Sur-Lock	---
1	Closing Devices	8916 Door Closer 8916 AF89P	Dorma	689
1	Protective Trim Units	K1050 B4E Kickplate 8" x 34"	Rockwood	630
1	Accessories	137NA Weather Strip 17" 36" x 84"	National Guard	A
1	Accessories	Door Sweep 18062CNB36	Pemko	A
1	Miscellaneous Items	DS/1000 Door Scope	Security...	Silver
1	Miscellaneous Items	MCV309NWHGL Door Bell	Nutone	As Selected

WINDOW SCHEDULE - "W"

DESIGN ID	COUNT	DESCRIPTION	COMMENTS
X0001	1	MAIN ENTRY FACADE STOREFRONT	1" CLEAR INSULATED GLASS
X0002	3	MAIN ENTRY FACADE STOREFRONT	1" CLEAR INSULATED GLASS
X0003	1	PATIO FACADE STOREFRONT	1" CLEAR INSULATED GLASS
X0004	1	PATIO FACADE STOREFRONT	1" CLEAR INSULATED GLASS
X0005	1	DT BUMP STOREFRONT	1" CLEAR INSULATED GLASS
X0006	1	DT BUMP STOREFRONT	1" CLEAR INSULATED GLASS
X0007	1	DT BUMP STOREFRONT	1" CLEAR INSULATED GLASS
WINDOW			
21347	1	WINDOW - DT WITH SPLIT TRANSOM - 48X60IN 1205X1510MM - LOW E INSULATED GLASS	

GENERAL NOTES

A. STARBUCKS VENDOR TO PROVIDE DOOR HARDWARE COMPONENTS. GC TO INSTALL.

B. SEE SHEET A1101 FOR TAGGED LOCATION OF EXTERIOR DOORS AND WINDOWS AND ASSOCIATED JAMB DETAILS.

C. EGRESS SHALL NOT PASS THROUGH KITCHENS, STORAGE ROOMS, CLOSETS OR SIMILAR SPACES.

D. PANIC AND FIRE EXIT HARDWARE, WHERE INSTALLED ON DOORS IN THIS BUILDING SHALL SATISFY THE FOLLOWING:

a) THE ACTUATION PORTION OF THE RELEASING DEVICE SHALL EXTEND AT LEAST ONE-HALF OF THE DOOR LEAF WIDTH.

b) THE MAXIMUM UNLATCHING FORCE DOES NOT EXCEED 15 POUNDS (6.8 KG).

c) PIVOTED OR BALANCED DOORS SHALL BE OF THE PUSH-PAD TYPE WHERE PANIC HARDWARE IS REQUIRED AND THE PAD SHALL NOT EXTEND ACROSS MORE THAN ONE-HALF OF THE DOOR

d) PANIC HARDWARE LISTED IN ACCORDANCE WITH UL 305.

e) FIRE EXIT HARDWARE LISTED IN ACCORDANCE WITH UL 10C AND UL 305.

1 STOREFRONT X0001

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

2 STOREFRONT X0002

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

3 STOREFRONT X0003 / X0004

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

4 DT X0005 / X0006 / X10889

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

5 DT X0007

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

DESCRIPTION

DATE

REV.

MARK S. SALDANO

REGISTERED ARCHITECT

10433

12/03/2021

BEYONCE L. BROWN

REGISTERED ARCHITECT

10433

12/03/2021

BEYONCE L. BROWN

REGISTERED ARCHITECT

10433

12/03/2021

BEYONCE L. BROWN

REGISTERED ARCHITECT

10433

12/03/2021

BEYONCE L. BROWN

REGISTERED ARCHITECT

10433

12/03/2021

BEYONCE L. BROWN

REGISTERED ARCHITECT

10433

12/03/2021

BEYONCE L. BROWN

REGISTERED ARCHITECT

10433

12/03/2021

BEYONCE L. BROWN

REGISTERED ARCHITECT

10433

12/03/2021

BEYONCE L. BROWN

REGISTERED ARCHITECT

10433

12/03/2021

BEYONCE L. BROWN

REGISTERED ARCHITECT

10433

12/03/2021

BEYONCE L. BROWN

REGISTERED ARCHITECT

10433

12/03/2021

BEYONCE L. BROWN

REGISTERED ARCHITECT

10433

12/03/2021

BEYONCE L. BROWN

REGISTERED ARCHITECT

10433

12/03/2021

BEYONCE L. BROWN

REGISTERED ARCHITECT

10433

12/03/2021

BEYONCE L. BROWN

REGISTERED ARCHITECT

10433

12/03/2021

BEYONCE L. BROWN

REGISTERED ARCHITECT

10433

12/03/2021

BEYONCE L. BROWN

REGISTERED ARCHITECT

10433

12/03/2021

BEYONCE L. BROWN

REGISTERED ARCHITECT

10433

12/03/2021

BEYONCE L. BROWN

REGISTERED ARCHITECT

10433

12/03/2021

BEYONCE L. BROWN

REGISTERED ARCHITECT

10433

12/03/2021

BEYONCE L. BROWN

REGISTERED ARCHITECT

10433

12/03/2021

BEYONCE L. BROWN

REGISTERED ARCHITECT

10433

12/03/2021

BEYONCE L. BROWN

REGISTERED ARCHITECT

10433

12/03/2021

BEYONCE L. BROWN

REGISTERED ARCHITECT

10433

12/03/2021

BEYONCE L. BROWN

REGISTERED ARCHITECT

10433

12/03/2021

BEYONCE L. BROWN

REGISTERED ARCHITECT

10433

12/03/2021

BEYONCE L. BROWN

REGISTERED ARCHITECT

10433

12/03/2021

BEYONCE L. BROWN

REGISTERED ARCHITECT

10433

12/03/2021

BEYONCE L. BROWN

REGISTERED ARCHITECT

10433

12/03/2021

BEYONCE L. BROWN

REGISTERED ARCHITECT

10433

12/03/2021

BEYONCE L. BROWN

REGISTERED ARCHITECT

10433

12/03/2021

BEYONCE L. BROWN

REGISTERED ARCHITECT

10433

12/03/2021

BEYONCE L. BROWN

REGISTERED ARCHITECT

10433

12/03/2021

BEYONCE L. BROWN

REGISTERED ARCHITECT

10433

12/03/2021

BEYONCE L. BROWN

REGISTERED ARCHITECT

10433

12/03/2021

BEYONCE L. BROWN

REGISTERED ARCHITECT

10433

12/03/2021

BEYONCE L. BROWN

REGISTERED ARCHITECT

10433

12/03/2021

BEYONCE L. BROWN

REGISTERED ARCHITECT

10433

12/03/2021

BEYONCE L. BROWN

REGISTERED ARCHITECT

10433

12/03/2021

BEYONCE L. BROWN

REGISTERED ARCHITECT

10433

12/03/2021

BEYONCE L. BROWN

REGISTERED ARCHITECT

10433

12/03/2021

BEYONCE L. BROWN

REGISTERED ARCHITECT

10433

12/03/2021

BEYONCE L. BROWN

REGISTERED ARCHITECT

10433

12/03/2021

BEYONCE L. BROWN

REGISTERED ARCHITECT

10433

12/03/2021

BEYONCE L. BROWN

REGISTERED ARCHITECT

10433

12/03/2021

BEYONCE L. BROWN

REGISTERED ARCHITECT

10433

12/03/2021

BEYONCE L. BROWN

REGISTERED ARCHITECT

10433

12/03/2021

BEYONCE L. BROWN

REGISTERED ARCHITECT

10433

12/03/2021

BEYONCE L. BROWN

REGISTERED ARCHITECT

10433

12/03/2021

BEYONCE L. BROWN

REGISTERED ARCHITECT

10433

12/03/2021

BEYONCE L. BROWN

REGISTERED ARCHITECT

10433

12/03/2021

BEYONCE L. BROWN

REGISTERED ARCHITECT

10433

12/03/2021

BEYONCE L. BROWN

REGISTERED ARCHITECT

10433

12/03/2021

BEYONCE L. BROWN

REGISTERED ARCHITECT

10433

12/03/2021

BEYONCE L. BROWN

REGISTERED ARCHITECT

10433

12/03/2021

BEYONCE L. BROWN

REGISTERED ARCHITECT

10433

12/03/2021

BEYONCE L. BROWN

REGISTERED ARCHITECT

10433

12/03/2021

BEYONCE L. BROWN

REGISTERED ARCHITECT

10433

12/03/2021

BEYONCE L. BROWN

REGISTERED ARCHITECT

10433

12/03/2021

BEYONCE L. BROWN

REGISTERED ARCHITECT

10433

12/03/2021

BEYONCE L. BROWN

REGISTERED ARCHITECT

10433

12/03/2021

BEYONCE L. BROWN

REGISTERED ARCHITECT

10433

12/03/2021

BEYONCE L. BROWN

REGISTERED ARCHITECT

10433

12/03/2021

BEYONCE L. BROWN

REGISTERED ARCHITECT

10433

12/03/2021

BEYONCE L. BROWN

REGISTERED ARCHITECT

10433

12/03/2021

BEYONCE L. BROWN

REGISTERED ARCHITECT

10433

12/03/2021

BEYONCE L. BROWN

REGISTERED ARCHITECT

10433

12/03/2021

BEYONCE L. BROWN

REGISTERED ARCHITECT

10433

12/03/2021

BEYONCE L. BROWN

REGISTERED ARCHITECT

10433

12/03/2021

BEYONCE L. BROWN

REGISTERED ARCHITECT

10433

12/03/2021

BEYONCE L. BROWN

REGISTERED ARCHITECT

10433

12/03/2021

BEYONCE L. BROWN

REGISTERED ARCHITECT

10433

12/03/2021

BEYONCE L. BROWN

REGISTERED ARCHITECT

10433

12/03/2021

BEYONCE L. BROWN

REGISTERED ARCHITECT

10433

12/03/2021

BEYONCE L. BROWN

REGISTERED ARCHITECT

10433

12/03/2021

BEYONCE L. BROWN

REGISTERED ARCHITECT

10433

12/03/2021

BEYONCE L. BROWN

REGISTERED ARCHITECT

10433

12/03/2021

BEYONCE L. BROWN

REGISTERED ARCHITECT

10433

12/03/2021

BEYONCE L. BROWN

REGISTERED ARCHITECT

10433

12/03/2021

BEYONCE L. BROWN

REGISTERED ARCHITECT

10433

12/03/2021

BEYONCE L. BROWN

REGISTERED ARCHITECT

10433

12/03/2021

BEYONCE L. BROWN

REGISTERED ARCHITECT

10433

12/03/2021

BEYONCE L. BROWN

REGISTERED ARCHITECT

10433

12/03/2021

BEYONCE L. BROWN

REGISTERED ARCHITECT

10433

12/03/2021

BEYONCE L. BROWN

REGISTERED ARCHITECT

10433

12/03/2021

BEYONCE L. BROWN

REGISTERED ARCHITECT

10433

12/03/2021

BEYONCE L. BROWN

REGISTERED ARCHITECT

10433

12/03/2021

BEYONCE L. BROWN

REGISTERED ARCHITECT

10433

12/03/2021

BEYONCE L. BROWN

REGISTERED ARCHITECT

10433

12/03/2021

BEYONCE L. BROWN

REGISTERED ARCHITECT

10433

12/03/2021

BEYONCE L. BROWN

REGISTERED ARCHITECT

10433

12/03/2021

BEYONCE L. BROWN

REGISTERED ARCHITECT

10433

12/03/2021

BEYONCE L. BROWN

REGISTERED ARCHITECT

10433

12/03/2021

BEYONCE L. BROWN

REGISTERED ARCHITECT

10433

12/03/2021

BEYONCE L. BROWN

REGISTERED ARCHITECT

10433

12/03/2021

BEYONCE L. BROWN

REGISTERED ARCHITECT

10433

12/03/2021

BEYONCE L. BROWN

REGISTERED ARCHITECT

10433

12/03/2021

BEYONCE L. BROWN

REGISTERED ARCHITECT

10433

12/03/2021

BEYONCE L. BROWN

REGISTERED ARCHITECT

10433

12/03/2021

BEYONCE L. BROWN

REGISTERED ARCHITECT

10433

12/03/2021

BEYONCE L. BROWN

REGISTERED ARCHITECT

10433

12/03/2021

BEYONCE L. BROWN

REGISTERED ARCHITECT

10433

12/03/2021

BEYONCE L. BROWN

REGISTERED ARCHITECT

10433

12/03/2021

BEYONCE L. BROWN

REGISTERED ARCHITECT

10433

12/03/2021

BEYONCE L. BROWN

REGISTERED ARCHITECT

10433

12/03/2021

BEYONCE L. BROWN

REGISTERED ARCHITECT

10433

12/03/2021

BEYONCE L. BROWN

REGISTERED ARCHITECT

10433

12/03/2021

BEYONCE L. BROWN

REGISTERED ARCHITECT

10433

12/03/2021

BEYONCE L. BROWN

REGISTERED ARCHITECT

10433

12/03/2021

BEYONCE L. BROWN

REGISTERED ARCHITECT

10433

12/03/2021

BEYONCE L. BROWN

REGISTERED ARCHITECT

10433

12/03/2021

BEYONCE L. BROWN

REGISTERED ARCHITECT

10433

12/03/2021

BEYONCE L. BROWN

REGISTERED ARCHITECT

10433

12/03/2021

BEYONCE L. BROWN

REGISTERED ARCHITECT

10433

12/03/2021

BEYONCE L. BROWN

REGISTERED ARCHITECT

10433

12/03/2021

BEYONCE L. BROWN

REGISTERED ARCHITECT

10433

12/03/2021

BEYONCE L. BROWN

REGISTERED ARCHITECT

10433

12/03/2021

BEYONCE L. BROWN

REGISTERED ARCHITECT

10433

12/03/2021

BEYONCE L. BROWN

REGISTERED ARCHITECT

10433

12/03/2021

BEYONCE L. BROWN

REGISTERED ARCHITECT

10433

12/03/2021

BEYONCE L. BROWN

REGISTERED ARCHITECT

10433

12/03/2021

BEYONCE L. BROWN

REGISTERED ARCHITECT

10433

12/03/2021

BEYONCE L. BROWN

REGISTERED ARCHITECT

10433

12/03/2021

BEYONCE L. BROWN

REGISTERED ARCHITECT

10433

12/03/2021

BEYONCE L. BROWN

REGISTERED ARCHITECT

10433

12/03/2021

BEYONCE L. BROWN

REGISTERED ARCHITECT

10433

12/03/2021

BEYONCE L. BROWN

REGISTERED ARCHITECT

10433

12/03/2021

BEYONCE L. BROWN

REGISTERED ARCHITECT

10433

12/03/2021

BEYONCE L. BROWN

REGISTERED ARCHITECT

10433

12/03/2021

BEYONCE L. BROWN

REGISTERED ARCHITECT

10433

12/03/2021

BEYONCE L. BROWN

REGISTERED ARCHITECT

10433

12/03/2021

BEYONCE L. BROWN

REGISTERED ARCHITECT

10433

12/03/2021

BEYONCE L. BROWN

REGISTERED ARCHITECT

10433

12/03/2021

BEYONCE L. BROWN

REGISTERED ARCHITECT

10433

12/03/2021

BEYONCE L. BROWN

REGISTERED ARCHITECT

10433

12/03/2021

BEYONCE L. BROWN

REGISTERED ARCHITECT

10433

12/03/2021

BEYONCE L. BROWN

REGISTERED ARCHITECT

10433

12/03/2021

BEYONCE L. BROWN

REGISTERED ARCHITECT

10433

12/03/2021

BEYONCE L. BROWN

REGISTERED ARCHITECT

10433

12/03/2021

BEYONCE L. BROWN

REGISTERED ARCHITECT

10433

12/03/2021

BEYONCE L. BROWN

REGISTERED ARCHITECT

10433

12/03/2021

BEYONCE L. BROWN

REGISTERED ARCHITECT

10433

12/03/2021

BEYONCE L. BROWN

REGISTERED ARCHITECT

10433

12/03/2021

BEYONCE L. BROWN

REGISTERED ARCHITECT

10433

12/03/2021

BEYONCE L. BROWN

REGISTERED ARCHITECT

10433

12/03/2021

BEYONCE L. BROWN

REGISTERED ARCHITECT

10433

12/03/2021

BEYONCE L. BROWN

REGISTERED ARCHITECT

10433

12/03/2021

BEYONCE L. BROWN

REGISTERED ARCHITECT

10433

12/03/2021

BEYONCE L. BROWN

REGISTERED ARCHITECT

10433

12/03/2021

BEYONCE L. BROWN

REGISTERED ARCHITECT

10433

12/03/2021

BEYONCE L. BROWN

REGISTERED ARCHITECT

10433

12/03/2021

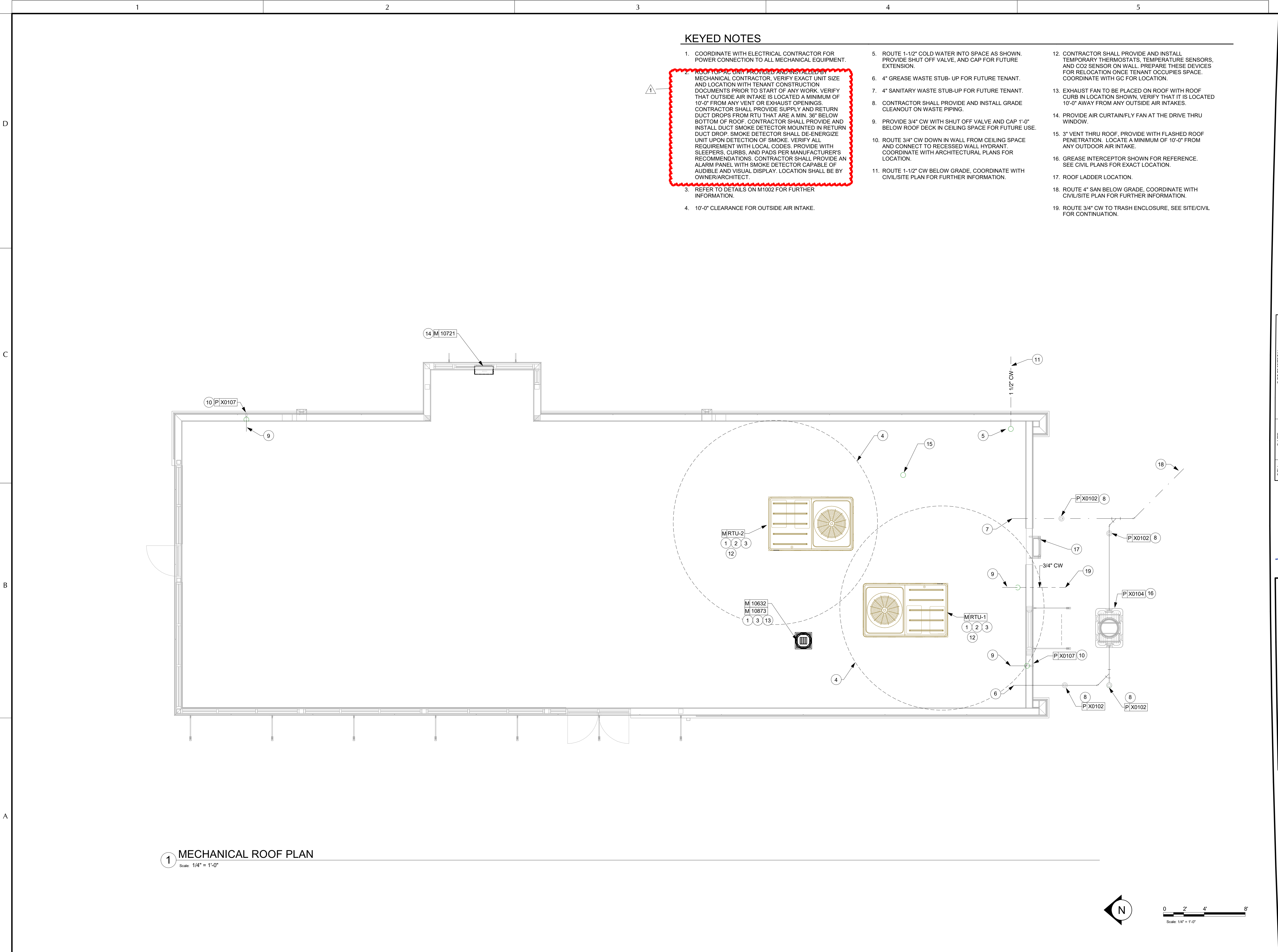
BEYONCE L. BROWN

REGISTERED ARCHITECT

10433

12/03/2021

BEYON



GPD Engineering and Architecture
Professional Corporation - C3879
520 S. MAIN ST., SUITE 2531
AKRON, OH 44311
PHONE: 330.572.2100
FAX: 330.572.2101
Copyright GPD Engineering and Architecture Professional Corporation 2021

REV.	DATE	DESCRIPTION
1	02/23/2022	FIRE DEPARTMENT COMMENTS

02/23/22

BENSON SHELL
12321 NC-210
BENSON, NC 27504

MECHANICAL AND PLUMBING PLAN

PERMIT	DATE
BID	12/03/2021
PROJECT MANAGER	DESIGNER
AK	CK

JOB NO.
2021379.01


M1001

NOTES:

1. FACTORY MOUNTED, NON-FUSED DISCONNECT SWITCH AND SINGLE POINT POWER CONNECTION
2. 14" HIGH, INSULATED FACTORY ROOF CURB
3. THRU BASE ELECTRICAL CONNECTIONS
4. 7 DAY PROGRAMMABLE THERMOSTAT
5. HAIL GUARDS ON CONDENSER COILS
6. HINGED ACCESS DOORS
7. NON-POWERED CONVENIENCE OUTLET
8. SINGLE ENTHALPY DRY BULB ECONOMIZER AND POWER EXHAUST.
9. FACTORY MOUNTED RETURN AIR SMOKE DETECTOR



	1	2	3	4	5
D	<div>GENERAL ELECTRICAL NOTES</div> <div>1. THE ELECTRICAL CONTRACTOR SHALL COORDINATE ELECTRICAL WORK WITH OTHER TRADES. THE ARCHITECTURAL DRAWINGS SHALL TAKE PRECEDENCE OVER ALL OTHER DRAWINGS. DO NOT SCALE DISTANCES OFF THE ELECTRICAL DRAWINGS; USE ACTUAL BUILDING DIMENSIONS. OVERALL CASEWORK COMPONENT DIMENSIONING ON ELECTRICAL DETAILS ARE SHOWN FOR REFERENCE AND COORDINATION ONLY. SEE PROJECT MANUAL.</div> <div>2. ALL ELECTRICAL SYSTEMS SHALL BE TESTED FOR PROPER OPERATION. BALANCE ALL BRANCH CIRCUIT LOADS BETWEEN THE PHASES OF THE SYSTEM WITHIN 10% OF THE HIGHEST PHASE LOAD IN EACH PANEL BOARD.</div> <div>3. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR DE-ENERGIZING CIRCUITS IN DEMOLITION AREAS TO INSURE A SAFE CONDITION. ELECTRICAL DEVICES AND ASSOCIATED WIRING LOCATED WITHIN THE DEMOLITION AREA THAT WILL NO LONGER BE USED SHALL BE REMOVED AND PROPERLY DISPOSED OF AT CONTRACTORS EXPENSE UNLESS OTHERWISE NOTED.</div> <div>4. THE ELECTRICAL CONTRACTOR SHALL SCHEDULE ALL ELECTRICAL SYSTEM OUTAGES WITH THE GENERAL CONTRACTOR AND LANDLORD AT LEAST 24 HOURS IN ADVANCE. UNLESS APPROVED OTHERWISE ALL OUTAGES SHALL OCCUR BETWEEN 11:00PM AND 5:00AM.</div> <div>5. ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL ALL NECESSARY CONDUIT AND J-BOXES TO SUPPORT A COMPLETE SECURITY, PHONE, POS AND DATA SYSTEMS. SEE MANAGER WORKSTATION AND BAR POINT OF SALE (POS) POWER/TELECOM/SECURITY DIAGRAM. COORDINATE ALL DEVICE LOCATIONS AND MOUNTING HEIGHTS WITH SECURITY VENDOR PRIOR TO ROUGH-IN. PROVIDE END-TO-END PULL STRINGS IN ALL CONDUITS. LABEL EACH END OF THE PULL STRING WITH CONDUIT SYSTEM ("SECURITY") AND DESTINATION ("CAFE", "FRONT BAR", ETC.). PROVIDE INSULATED BUSHINGS ON ALL STUBBED-UP AND EXPOSED CONDUIT ENDS.</div> <div>6. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE GENERAL CONTRACTOR TO PATCH AND REPAIR ALL EXISTING WALLS, FLOORS, CEILINGS OR OTHER SURFACES IDENTIFIED TO REMAIN THAT MAY BECOME DAMAGED DURING THE COURSE OF WORK.</div> <div>7. EXPOSED/SURFACE MOUNTED CONDUITS SHALL ONLY BE ALLOWED WHERE NECESSARY IN EXPOSED CEILING AREAS. IF CONDUITS NEED TO BE SURFACE MOUNTED TO WALLS, COORDINATE WITH STARBUCKS CONSTRUCTION MANAGER FOR APPROVAL.</div> <div>8. VERIFY LOCATION OF ALL OUTLETS AND SWITCHES WITH ARCHITECTURAL DRAWINGS, INTERIOR DETAILS, FINISH SCHEDULES, GENERAL CONTRACTOR, EQUIPMENT VENDORS, STARBUCKS AND EXISTING SITE CONDITIONS. VERIFY FINAL DOOR HINGE LOCATION PRIOR TO SWITCH INSTALLATION AND ADJUST SWITCH LOCATION IF NEEDED. DO NOT MOUNT RECEPTACLES/SWITCHES IN LOCATIONS THAT WOULD CONFLICT WITH MIRRORS, SEAMS OF WALLS, WAINSCOTS, TILE TRANSITIONS, ETC...</div>	<div>GENERAL NOTES</div> <div>SCOPE THE INTENT OF THE DRAWINGS AND PROJECT MANUAL IS TO PROVIDE A COMPLETE AND FULLY OPERATIONAL ELECTRICAL SYSTEM. THE ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL ALL LABOR, MATERIAL, AND EQUIPMENT NECESSARY TO COMPLETE THE ELECTRICAL WORK.</div> <div>SITE EXAMINATION THE ELECTRICAL CONTRACTOR SHALL THOROUGHLY EXAMINE ALL AREAS WHERE EQUIPMENT, CONDUIT, AND WIRING WILL BE INSTALLED AND WILL REPORT ANY CONDITION THAT, IN HIS OPINION, PREVENTS THE PROPER INSTALLATION OF THE ELECTRICAL WORK.</div> <div>STANDARDS EQUIPMENT AND MATERIALS SHALL CONFORM WITH APPROPRIATE PROVISIONS OF CSA, ULC, NEC, ASTM, UL, ETL, NEMA, ANSI, AS APPLICABLE TO EACH INDIVIDUAL UNIT OR ASSEMBLY.</div> <div>CODES ALL WORK SHALL BE PERFORMED IN STRICT ACCORDANCE WITH ALL APPLICABLE PROVINCIAL AND LOCAL CODES AND ORDINANCES. IN CASE OF CONFLICT BETWEEN THE DRAWINGS AND SPECIFICATIONS AND THE CODES, THE HIGHEST STANDARD SHALL APPLY. ELECTRICAL CONTRACTOR SHALL SATISFY CODE REQUIREMENTS AS A MINIMUM STANDARD WITHOUT ANY EXTRA COST TO STARBUCKS.</div> <div>PERMITS AND FEES THE ELECTRICAL CONTRACTOR SHALL PROCURE AND PAY FOR ALL PERMITS, FEES, AND INSPECTIONS NECESSARY TO COMPLETE THE ELECTRICAL WORK.</div> <div>WARRANTY THE ELECTRICAL CONTRACTOR SHALL UNCONDITIONALLY WARRANT ALL WORK TO BE FREE OF DEFECTS IN MATERIAL AND WORKMANSHIP FOR A PERIOD OF ONE (1) YEAR FROM THE DATE OF FINAL ACCEPTANCE BY STARBUCKS AND WILL REPAIR OR REPLACE ANY DEFECTIVE WORK PROMPTLY AND WITHOUT CHARGE AND RESTORE ANY OTHER EXISTING WORK DAMAGED IN THE COURSE OF REPAIRING DEFECTIVE MATERIALS AND WORKMANSHIP.</div>	<div>SYSTEM COMMISSIONING</div> <div>CONTRACTOR RESPONSIBILITIES FOR BUILDING COMMISSIONING</div> <div>CONTRACTOR SHALL PROVIDE SUPPORT AND WORK AS SPECIFIED, NEEDED AND REQUIRED TO CONDUCT AND FACILITATE STARBUCKS STAFF BUILDING COMMISSIONING EFFORTS. THIS WORK WILL BE COMPRISED OF THREE DISTINCT EFFORTS:</div> <div>1) SUPPORT STARBUCKS COMMISSIONING AGENT (CXA) DURING INSTALLATION VERIFICATION AND CORRECT DISCLOSED DEFICIENCIES;</div> <div>2) PERFORM TESTING, ADJUSTING, BALANCING AND SYSTEM STARTUP AND SUPPORT FUNCTIONAL PERFORMANCE TESTING BY STARBUCKS CXA;</div> <div>3) CORRECT DEFICIENCIES DISCLOSED BY FUNCTIONAL PERFORMANCE TESTING AND SUBMIT REPORTS. CONTRACTOR SHALL PERFORM AND PROVIDE THE FOLLOWING:<div><div>A. SYSTEMS SUBJECT TO COMMISSIONING MAY INCLUDE, BUT ARE NOT LIMITED TO DOMESTIC HOT WATER GENERATION, HVAC SYSTEMS, ROOFTOP UNITS, EXHAUST FANS, HVAC CONTROLS, LIGHTING CONTROLS, AIR CURTAINS, BUILT-IN REFRIGERATION EQUIPMENT, AND RENEWABLE ENERGY SYSTEMS.</div><div>B. CONTRACTOR SHALL INCLUDE COMMISSIONING ACTIVITIES IN PROJECT SCHEDULE AND SHOW INTERVALS FOR PERFORMANCE OF WORK FOR WHICH CONTRACTOR IS RESPONSIBLE AND INTERVALS FOR WORK PERFORMED BY STARBUCKS CXA. CONTRACTOR SHALL SHOW RESOURCES FOR PERFORMING ALL WORK RELATED TO COMMISSIONING ACTIVITIES ON A LINE ITEM IN THE SCHEDULE OF VALUES.</div><div>C. CONTRACTOR SHALL INSTALL EQUIPMENT IN ACCORDANCE WITH THE MANUFACTURER'S REQUIREMENTS AND ALL CONTRACT DOCUMENTS. ENSURE THAT ALL EQUIPMENT IS INSTALLED TOTALLY COMPLETE, AND ACCESSIBLE TO STARBUCKS CXA FOR INSTALLATION VERIFICATION AND FUNCTIONAL PERFORMANCE TESTING PRIOR TO THE SCHEDULED START OF INSTALLATION VERIFICATION.</div><div>D. INSTALLATION VERIFICATION SHALL BE PERFORMED BY STARBUCKS CXA. CONTRACTOR SHALL SUPPORT STARBUCKS CXA INSTALLATION VERIFICATION EFFORTS AS NECESSARY. PROVIDE ALL ACCESS AND EQUIPMENT NECESSARY FOR STARBUCKS STAFF TO VERIFY THAT THE EQUIPMENT IS INSTALLED CORRECTLY.</div><div>E. CONTRACTOR SHALL BE READILY AVAILABLE DURING INSTALLATION VERIFICATION TO CORRECT ANY DEFICIENCIES OR DEFECTS DISCLOSED BY THE INSTALLATION VERIFICATION PROCESS. CORRECTIONS SHALL BE MADE IN A TIMELY MANNER WITHOUT DISRUPTION OF THE CONSTRUCTION SCHEDULE.</div><div>F. ALL HVAC, EXHAUST FAN, AND AIR CURTAIN EQUIPMENT SHALL BE TESTED, ADJUSTED AND BALANCED BY THE CONTRACTOR'S TESTING, ADJUSTING AND BALANCE AGENT/ SEE TESTING, ADJUSTING AND BALANCING) AFTER THE SYSTEM IS VERIFIED TO BE COMPLETE AND CORRECT BY STARBUCKS CXA, IN ACCORDANCE WITH THE REQUIREMENTS OF THESE DOCUMENTS. ALL HVAC CONTROL SYSTEMS SHALL BE TESTED TO ENSURE THAT CONTROL DEVICES, COMPONENTS EQUIPMENT AND SYSTEMS ARE CALIBRATED, ADJUSTED AND OPERATE IN ACCORDANCE WITH THESE PLANS AND PROJECT MANUAL. SEQUENCES OF OPERATION SHALL BE TESTED TO ENSURE THAT THEY OPERATE IN ACCORDANCE WITH THE CONTRACT REQUIREMENTS. DELIVERABLES: PRELIMINARY, WRITTEN TESTING AND AIR BALANCE REPORT CONFORMING TO THE REQUIREMENTS SPECIFIED HEREIN, DOCUMENTING THE INFORMATION SPECIFIED, ETC. TO THE STARBUCKS CXA IMMEDIATELY UPON COMPLETION OF THE WORK.</div><div>G. CONTRACTOR SHALL INFORM STARBUCKS CXA WHEN EQUIPMENT IS READY FOR FUNCTIONAL PERFORMANCE TESTING. ALL EQUIPMENT SHALL BE READY FOR FUNCTIONAL PERFORMANCE TESTING PRIOR TO STARTING TESTING. CONTRACTOR SHALL OPERATE EQUIPMENT FOR STARBUCKS CXA AND VERIFY BY DEMONSTRATION THE CORRECT OPERATION OF EQUIPMENT, RESPONSE OF SENSORS, AND PROPER EXECUTION OF HVAC CONTROL AND LIGHTING SEQUENCES; INCLUDING BUT NOT LIMITED TO: AIR MOVEMENT, TEMPERATURE, SOUND, AND CONTROL RESPONSE. PROVIDE ANY SECURITY ACCESS, HARDWARE, SOFTWARE, OR OTHER SUPPORT AS NEEDED FOR THE STARBUCKS CXA TO EFFICIENTLY WITNESS AND DOCUMENT ALL EQUIPMENT TESTING. STARBUCKS CXA WILL RECORD THE EQUIPMENT OPERATION AND RESPONSE TO TESTING SEQUENCES AND PREPARE A LIST OF ANY DEFICIENCIES DISCLOSED BY THE FUNCTIONAL PERFORMANCE TESTS FOR CORRECTION BY THE CONTRACTOR. EQUIPMENT INCLUDES, BUT IS NOT LIMITED TO, AIR HANDLING UNITS, ROOFTOP AND SPLIT TYPE, CONDENSING UNITS, EXHAUST FANS, LIGHTING CONTROLS, ETC. DELIVERABLES: PROVIDE COMPLETED COPIES OF ALL START UP REPORTS, FILLED OUT ON THE MANUFACTURER'S FORMS, TO THE STARBUCKS CXA.</div><div>H. CONTRACTOR IS RESPONSIBLE FOR CORRECTING ANY ISSUES OR DEFICIENCIES DISCLOSED DURING THE FUNCTIONAL PERFORMANCE TESTING PROCESS. CORRECTIONS SHOULD BE MADE IN A TIMELY MANNER WITHOUT DISRUPTION TO THE SYSTEM AND CONSTRUCTION SCHEDULE.</div><div>I. CONTRACTOR SHALL BE READILY AVAILABLE FOR ANY RE-TESTING OF EQUIPMENT DEEMED NECESSARY BY STARBUCKS CXA DURING INSTALLATION VERIFICATION AND FUNCTIONAL PERFORMANCE TESTING. CONTRACTOR IS RESPONSIBLE FOR CORRECTING ANY ISSUES OR DEFICIENCIES FOUND IN THE SYSTEM DURING ANY AND ALL RE-TESTING. CORRECTIONS SHOULD BE MADE IN A TIMELY MANNER WITHOUT DISRUPTION TO THE SYSTEM AND CONSTRUCTION SCHEDULE. DELIVERABLES: FINAL BALANCE REPORT, DEFICIENCIES LIST NOTING CORRECTIVE ACTIONS PERFORMED BY CONTRACTOR IN RESPONSE TO INSTALLATION VERIFICATION AND FUNCTIONAL PERFORMANCE TEST RESULTS.</div><div>J. CONSTRUCTION AND POST CONSTRUCTION TESTING: ADDITIONAL TESTING MAY BE REQUIRED AND OTHER PROCESSES THAT MAY OCCUR OUT OF SEQUENCE WITH COMMISSIONING SERVICE. CONTRACTOR SHALL CONDUCT, DOCUMENT, SUPPORT AND SCHEDULE THIS TESTING AS DIRECTED BY STARBUCKS CXA.</div></div></div>	<div>ABBREVIATIONS</div> <div>AFB ABOVE FINISHED FLOOR AHJ AUTHORITIES HAVING JURISDICTION APPROX APPROXIMATE</div> <div>BLDG BUILDING</div> <div>CKT CIRCUIT CLG CEILING CM STARBUCKS CONSTRUCTION MANAGER CONST CONSTRUCTION CW COLD WATER CXA COMMISSIONING AGENT</div> <div>DEG DEGREES DL LIGHTS WITHIN DAYLIGHT ZONE DM STARBUCKS DESIGN MANAGER DN DOWN DTL DETAIL DWG(S) DRAWING(S)</div> <div>EA EACH EC ELECTRICAL CONTRACTOR ECP EQUIPMENT CONTROL PAC EG EXHAUST GRILLE ELEC ELECTRICAL EM EMERGENCY EMS ENERGY MANAGEMENT SYSTEM EXIST EXISTING EXT EXTERIOR</div> <div>F&I FURNISH & INSTALL FOIC FURNISHED BY OWNER, INSTALLED BY CONTRACTOR FOIO FURNISHED BY OWNER, INSTALLED BY OWNER</div> <div>FLR FLOOR FT FOOT/FEET</div> <div>GC GENERAL CONTRACTOR GFCI GROUND FAULT CIRCUIT INTERRUPTER GND GROUND</div> <div>HR HOUR HVAC HEATING, VENTILATION, AIR CONDITIONING HW HOT WATER</div> <div>LCP LIGHTING CONTROL PANEL LL LANDLORD LS LIGHT SENSOR PHOTOCELL LV LOW VOLTAGE</div> <div>MAX MAXIMUM MC MECHANICAL CONTRACTOR MDP MAIN DISTRIBUTION PANEL MECH MECHANICAL MEP MECHANICAL, ELECTRICAL, AND PLUMBING MFG MANUFACTURER MIN MINIMUM</div> <div>NL NIGHTLIGHT NTS NOT TO SCALE</div> <div>OCP OVERCURRENT PROTECTION</div> <div>REF REFERENCE REQ(D) REQUIRE(D) REV REVISION</div> <div>SF SQUARE FEET SHT SHEET SPECS SPECIFICATION(S) SST STAINLESS STEEL</div> <div>TEL TELEPHONE TEMP TEMPORARY TYP TYPICAL</div> <div>UC UNDER COUNTER UNO UNLESS NOTED OTHERWISE</div> <div>WH WATER HEATER WP WEATHER PROOF</div>	<div>ELECTRICAL SYMBOLS LEGEND</div> <div>JUNCTION BOX</div> <div>SWITCH</div> <div>TELEPHONE</div> <div>THERMOSTAT</div> <div>RECEPTACLE: DATA</div> <div>RECEPTACLE: DUPLEX</div> <div>RECEPTACLE: DUPLEX - INDIVIDUAL BRANCH CIRCUIT</div> <div>RECEPTACLE: HIGH VOLTAGE</div> <div>RECEPTACLE: QUAD</div> <div>RECEPTACLE: QUAD - INDIVIDUAL BRANCH CIRCUIT</div> <div>RECEPTACLE: FLOOR DUPLEX</div> <div>DUCT SMOKE DETECTOR</div>
C					
B	<div>DESCRIPTION</div>	<div>DATE</div>	<div>REV</div>	<div>SEAL</div>	<div>12/03/2021</div>
A					



GPD Engineering and Architecture
Professional Corporation - C3879
520 S. MAIN ST., SUITE 2531
AKRON, OH 44311
PHONE: 330.572.2100
FAX: 330.572.2101
Copyright GPD Engineering and Architecture Professional Corporation 2020

DESCRIPTION	
DATE	
REV	

BENSON SHELL
12321 NC-210
BENSON, NC 27504

ELECTRICAL NOTES

PERMIT
BID

PROJECT MANAGER
AK

DESIGNER
AS

JOB NO.
2021379.01

E1000

KEYED NOTES (xx)

- 1" CONDUIT TO BE RAN UNDERGROUND FROM ORDER SCREEN TO STARBUCKS PANELS.
- 1" CONDUIT TO BE RAN UNDERGROUND FROM DRIVE THRU SIGNS AND MENU BOARDS TO STARBUCKS PANELS.
- DETECTOR LOOP TO BE CENTERED ON DT WINDOW/ORDER SPEAKER. COORDINATE WITH GC, TO BE 2" BELOW DT LANE PAVEMENT. SEE DETAIL ON THIS SHEET.
- 1" CONDUIT TO BE RAN UNDERGROUND FROM ORDER SCREEN TO DT POS STUBBED UP IN WALL. COORDINATE LOCATION OF STUB UPS PRIOR TO POURING FOOTINGS.
- 1" CONDUIT FOR DETECTOR LOOP TO BE RAN UNDERGROUND REAR OF BUILDING, STUBBED UP WALL TO ABOVE CEILING.
- 1" CONDUIT TO BE RAN UNDERGROUND FROM ORDER SCREEN TO DT POS STUBBED UP IN WALL FOR AUDIO/VIDEO AND DETECTOR LOOP DATA. COORDINATE LOCATION OF STUB UPS PRIOR TO POURING FOOTINGS.
- 1" CONDUIT FOR LED LIGHT ON ORDER SCREEN CANOPY TO CONNECT WITH CONDUIT FOR MENU BOARDS
- INCOMING ELECTRICAL SERVICE FROM PADMOUNT TRANSFORMER. SEE SINGLE-LINE DIAGRAM FOR MORE INFORMATION.
- COORDINATE EXACT LOCATION, FIXTURE TYPE, AND QUANTITY WITH LIGHTING VENDOR AND STARBUCKS CONSTRUCTION SUPERVISOR PRIOR TO ROUGH IN.
- PROVIDE (3) 4" CONDUITS WITH PULLSTRINGS TO TELECOMMUNICATION COMPANY POLE. COORDINATE WITH UTILITY COMPANY AND CIVIL. TERMINATE CONDUIT IN TENANT SPACE ABOVE MANAGERS DESK. COORDINATE WITH TENANT DRAWINGS.
- DT DIRECTIONAL SIGN
- PRIMARY FEEDER FROM UTILITY COMPANY POLE. PROVIDE (2) 4" CONDUITS WITH PULLSTRINGS COORDINATE WITH UTILITY COMPANY AND CIVIL.
- (3) SPARE 1" CONDUITS TO BE RUN THROUGH FOUNDATION WALL TO FRONT OF BUILDING. ALL CONDUITS TO BE TERMINATED ABOVE CEILING. VERIFY LOCATIONS FOR STUB UP WITH TENANT'S REPRESENTATIVE.
- (3) SPARE 1" CONDUITS TO BE RUN THROUGH FOUNDATION WALL OUT OF REAR OF BUILDING. ALL CONDUITS TO BE TERMINATED ABOVE CEILING. VERIFY LOCATIONS FOR STUB UP WITH TENANT'S REPRESENTATIVE.

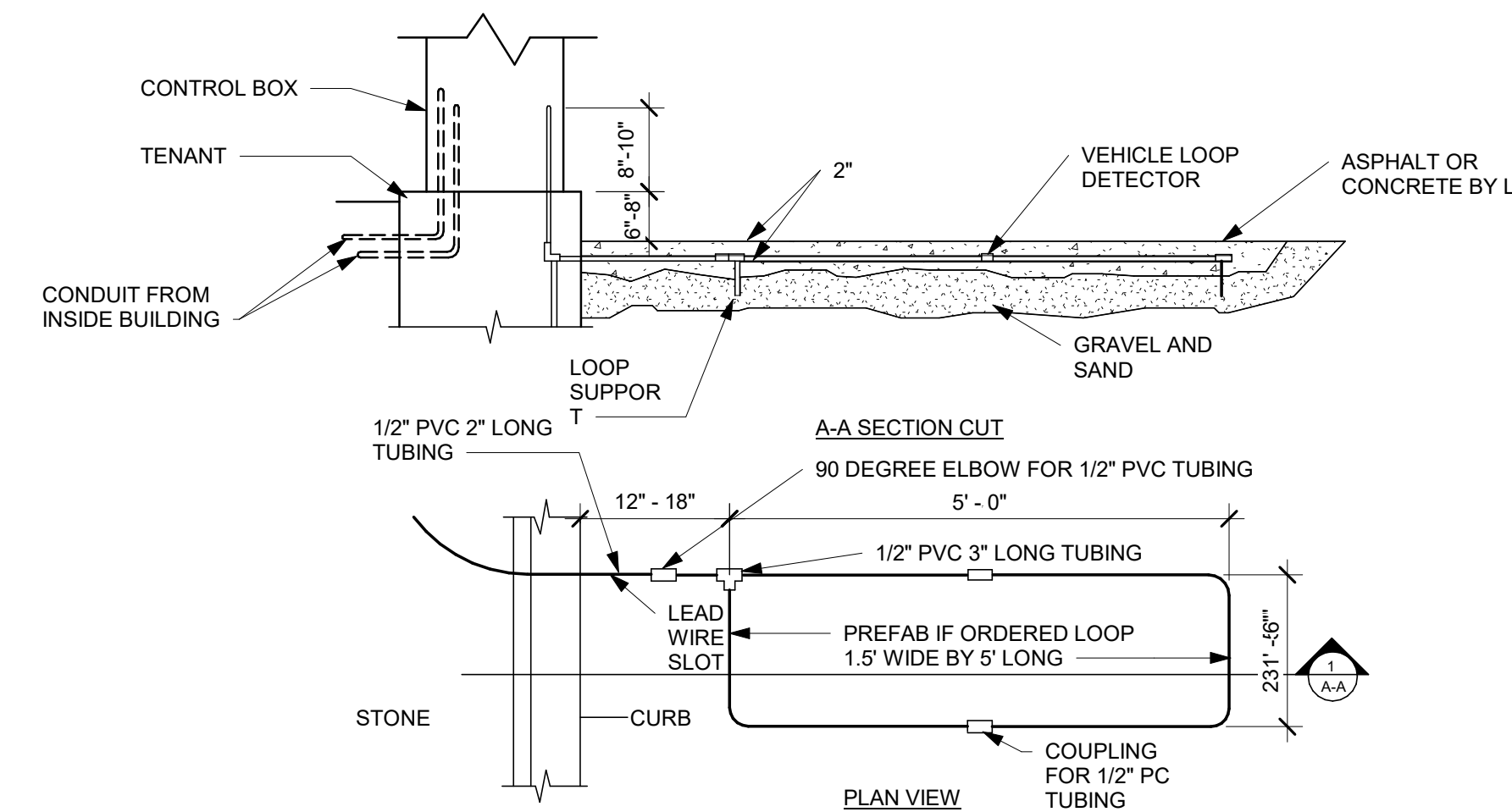
GENERAL NOTES

- PROVIDE PULL STRINGS IN ALL CONDUITS FOR STARBUCKS USE.
- CONDUITS TO STUB UP THRU FUTURE FOUNDATIONS OF STARBUCKS EQUIPMENT. REFER TO TENANT IMPROVEMENT DRAWINGS.

2 D.T. MENU BOARD (ENLARGED)
Scale: 1/4" = 1'-0"

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

4 DT SENSOR LOOP DETAIL
Scale: N.T.S.



1 SITE PLAN - ELECTRICAL
Scale: 1/16" = 1'-0"

Scale: 1/16" = 1'-0"

REV	DATE	DESCRIPTION
1	02/23/2022	FIRE DEPARTMENT COMMENTS



02/23/22

BENSON SHELL
12321 NC-210
BENSON, NC 27504

SITE PLAN - ELECTRICAL

PERMIT	DATE
BID	12/03/2021
PROJECT MANAGER	DESIGNER
AK	AS

JOB NO.
2021379.01

E1001

Branch Panel: A

Location: STARBUCKS
Supply From: CT CAB/METE
Mounting: RECESSED
Enclosure: NEMA-1

Volts: 120/208
Phases: 3
Wires: 4

A.I.C. Rating: 42K (SEE NOT
Mains Type: MCB
Mains Rating: 600 A
MCB Rating: 600 A

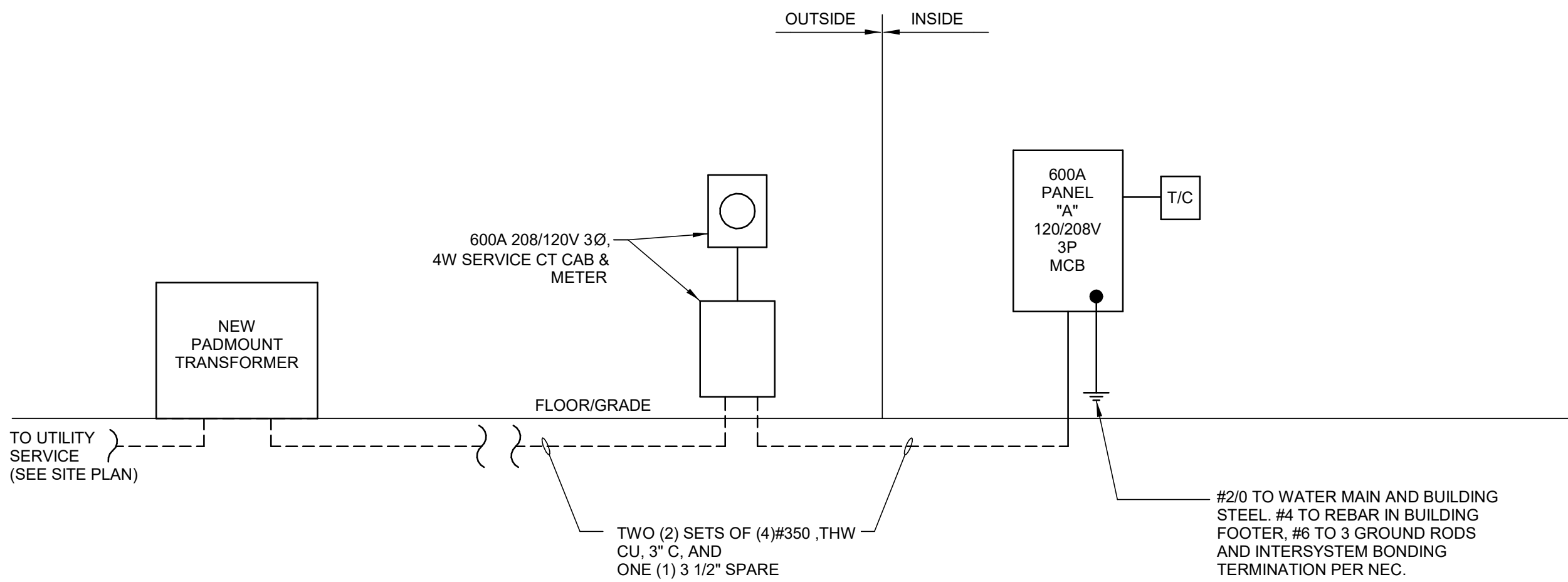
Notes:
PROVIDE PANEL WITH FEED-THRU LUGS TO SERVE FUTURE PANEL

NOTES	CKT	Load Name	Trip	Poles	A		B		C		Poles	Trip	Load Name	CKT	NOTES
	1	AIR CURTAIN	20 A	1	500 VA	212 VA					1	20 A	CANOPY LIGHTS		2
	3	EF-1	20 A	1			180 VA	150 VA			1	20 A	EXTERIOR BUILDING LIGHTS		4
	5	EMERGENCY LIGHTS	20 A	1					30 VA	120 VA	1	20 A	INTERIOR LIGHTS		6
	7	TIME CLOCK	20 A	1	200 VA	600 VA					1	20 A	PARKING LOT LIGHTS		8
	9	PARKING LOT LIGHTS	20 A	1			500 VA	360 VA			1	20 A	RTU - RECEPTACLES		10
	11	RECEPTACLES	20 A	1					540 VA	1818...	3	175 A	RTU-2		12
	13	RTU-1	175 A	3	1818...	1818...					--	--	--		14
	15	--	--	--			1818...	1818...			--	--	--		16
	17	--	--	--					1818...	180 VA	1	20 A	MONUMENT SIGN		18
	19	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare		20
	21	Spare	20 A	1			0 VA	--			1	--	Space		22
	23	Space	--	1					--	--	1	--	Space		24
	25	Space	--	1	--	--					1	--	Space		26
	27	Space	--	1			--	--			1	--	Space		28
	29	Space	--	1					--	--	1	--	Space		30
	31	Space	--	1	--	--					1	--	Space		32
	33	Space	--	1			--	--			1	--	Space		34
	35	Space	--	1					--	--	1	--	Space		36
	37	Space	--	1	--	--					1	--	Space		38
	39	Space	--	1			--	--			1	--	Space		40
	41	Space	--	1					--	--	1	--	Space		42
	43	Space	--	1	--	--					1	--	Space		44
	45	Space	--	1			--	--			1	--	Space		46
	47	Space	--	1					--	--	1	--	Space		48
	49	Space	--	1	--	--					1	--	Space		50
	51	Space	--	1			--	--			1	--	Space		52
	53	Space	--	1					--	--	1	--	Space		54
	55	Space	--	1	--	--					1	--	Space		56
	57	Space	--	1			--	--			1	--	Space		58
	59	Space	--	1					--	--	1	--	Space		60

Legend

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Other	30 VA	100.00%	30 VA		
Power	860 VA	100.00%	860 VA	Total Conn. Load:	112658 VA
Lighting	470 VA	125.00%	588 VA	Total Est. Demand:	112461 VA
HVAC	109086 VA	100.00%	109086 VA	Total Conn. Current:	313 A
Receptacle	900 VA	65.00%	585 VA	Total Est. Demand Current:	312 A

NOTES:
PANEL WILL CONTAIN GFCI BREAKERS. ENSURE MANUFACTURE CAN PROVIDE GFCI BREAKERS OVER 20A, INCLUDING 120V AND 208V LOADS. GFCI RELAYS ARE NOT PERMITTED. CONTRACTOR SHALL COORDINATE WITH UTILITY COMPANY AND SHALL CALCULATE SHORT CIRCUIT FAULT CURRENT AND ARC FLASH AND PROVIDE LABELS ON ELECTRICAL EQUIPMENT PER N.E.C. AND LOCAL JURISDICTION. CONTRACTOR SHALL PROVIDE EQUIPMENT RATED FOR FAULT CURRENT.



NOTES

1. CONTRACTOR SHALL COORDINATE WITH UTILITY COMPANY AND CALCULATE SHORT CIRCUIT FAULT CURRENT AND ARC FLASH AND LABEL ALL ELECTRICAL EQUIPMENT WITH THE CORRECT RATED JURISDICTION. CONTRACTOR SHALL PROVIDE EQUIPMENT RATED FOR AVAILABLE FAULT CURRENT.
2. CONTRACTOR SHALL COORDINATE WITH POWER COMPANY & PROVIDE CT CABINET & METER BASE PER POWER COMPANY REQUIREMENTS.
3. ALL TRENCHING, BACKFILL, SITE RESTORATION AND WARNING TAPE DETECTABLE BY CONTRACTOR. VERIFY DEPTHS OF CONDUITS COMPLY WITH POWER COMPANY REQUIREMENTS.
4. CONTRACTOR SHALL PROVIDE AN OUTDOOR DISCONNECT SWITCH IF LOCAL JURISDICTION OR POWER COMPANY REQUIRES ONE.
5. CONTRACTOR SHALL PROVIDE SLIP FITTERS IF REQUIRED BY LOCAL JURISDICTION.

1 SINGLE LINE DIAGRAM

Scale: NTS

REV.	DATE	DESCRIPTION



BENSON SHELL
12321 NC-210
BENSON, NC 27504

SCHEDULES - ELECTRICAL

	DATE
PERMIT	12/03/2021
BID	--/--/----

PROJECT MANAGER	DESIGNER
AK	AS

JOB NO.
2021379.01

E1003