

# ATTENDANT BUILDING

## BEAUFORT COUNTY, NORTH CAROLINA



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STRUCTURAL ENGINEER:  
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PROJECT NAME:  
**ATTENDANT BUILDING**  
North Boyd  
Beaufort County  
North Carolina

REVISIONS: DATE:  
ISSUED FOR BID 3 / 30 / 26

DRAWING NAME:  
**TITLE SHEET**

**ISSUED FOR BID**

DRAWN BY: CN

DATE:

SCALE: -

STAMP:  
ARCHITECTURE + DESIGN, P.L.L.C.  
51585  
3 / 30 / 26

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SHEET:  
**T1.1**

### GENERAL NOTES

- THE ARCHITECT SHALL NOT BE RESPONSIBLE FOR ANY ERROR, OMISSION, DEFECT OR DEFICIENCY IN THE CONTRACT DOCUMENTS ("ERROR") PREPARED BY THE ARCHITECT OR ITS CONSULTANTS WHICH IN ANY WAY IMPACTS THE SCHEDULE OF THE PROJECT. RESULTS IN A LACK OF COORDINATION AMONG THE CONTRACT DOCUMENTS, DELAYS THE COMPLETION OF THE PROJECT OR WHICH IN ANY OTHER WAY CAUSES ANY DAMAGE OR LOSS TO THE OWNER, CONTRACTOR, SUBCONTRACTORS, OR OTHER ENTITY INVOLVED IN THE PROJECT UNLESS: (1) THE ARCHITECT IS PROMPTLY NOTIFIED OF SUCH ERROR, IN ANY EVENT WITHIN 14 DAYS OF THE DATE SUCH ERROR WAS DISCOVERED OR COULD REASONABLY HAVE BEEN DISCOVERED; AND (2) THE ARCHITECT IS GIVEN OPPORTUNITY AT THE TIME OF DISCOVERY TO ADDRESS SUCH ERROR, AND IF APPROPRIATE, TAKE SUCH STEPS AS ARE NECESSARY TO CORRECT AND RESOLVE IT. FAILURE TO COMPLY WITH THE PROVISIONS OF THIS PARAGRAPH SHALL CONSTITUTE A WAIVER OF ANY CLAIM FOR DAMAGES, OR A RIGHT TO OFFSET AGAINST THE ARCHITECT BY OWNER, CONTRACTOR OR OTHERS AND SHALL IN NO EVENT CAUSE OR ALLOW A REDUCTION IN THE FEES OTHERWISE DUE THE ARCHITECT FOR SERVICES PROVIDED ON THE PROJECT.
- THE ARCHITECT IS NOT RESPONSIBLE FOR ANY DAMAGES CAUSED BY OMISSIONS OR INACCURACIES OF SITE INFORMATION. INCLUDING BUT NOT LIMITED TO EASEMENTS, SETBACKS, METES AND BOUNDS, TITLE OWNERSHIP, FLOOD ZONE DESIGNATIONS AND CAMA REQUIREMENTS, PROVIDED BY THE CLIENT, TAX MAPS, SURVEYORS AND/OR ENGINEERS.
- ALL PARTIES ACKNOWLEDGE AND AGREE THAT ALL DESIGNS ARE THE SOLE PROPERTY OF THE ARCHITECT. THIS AGREEMENT IS FOR A SINGLE LICENSED USE OF PLANS. ANY USE OF PLANS, OTHER THAN THE LIMITED LICENSE PROVIDED IN THIS PARAGRAPH IS NOT PERMITTED WITHOUT PRIOR WRITTEN CONSENT OF ARCHITECT. CLIENT SHALL PAY ARCHITECT FOR ANY REVISION WORK MADE TO DRAWINGS FOR REUSE AT AN HOURLY RATE DETERMINED BY THE ARCHITECT. ARCHITECT SHALL HAVE THE RIGHT TO INCLUDE PHOTOGRAPHIC OR ARTISTIC REPRESENTATIONS OF THE PROJECT AMONG THE ARCHITECT'S PROMOTIONAL AND PROFESSIONAL MATERIALS (INCLUDING WITHOUT LIMITATION ARCHITECT'S WEBSITE).
- THE ARCHITECT IS NOT RESPONSIBLE FOR MEANS, METHODS OR TECHNIQUES IN THE CONSTRUCTION OF THIS PROJECT.
- GENERAL CONTRACTOR IS SOLELY RESPONSIBLE FOR THE PROPER INSTALLATION OF ALL INSULATION. INSULATION MUST BE CONTINUOUS AT THE BUILDING ENVELOPE. G.C. TO BLOCK AS REQ'D FOR INSTALLATION. THE ARCHITECT RECOMMENDS A WHOLE BUILDING BLOWER DOOR TEST TO BE PERFORMED AS WELL AS THERMAL IMAGING TO ASSURE PROPER SUBCONTRACTOR INSTALLATION PRIOR TO COMPLETION AND THE TEST RESULTS PROVIDED TO THE ARCHITECT/OWNER.
- THE G.C. SHALL PROVIDE SUBMITTALS TO THE ARCHITECT FOR REVIEW. SUBMITTALS ARE AN ESSENTIAL PART OF THE CONSTRUCTION PROCESS. IF THE CONTRACTOR ELECTS TO NOT PROVIDE SUBMITTALS THEN HE/SHE ASSUMES AS RESPONSIBILITY FOR ENTIRETY OF THE PROJECT.

### CODE ANALYSIS

PROJECT INFO NAME OF PROJECT ATTENDANT OFFICE BUILDING  
ADDRESS NORTH BOYD ROAD, BEAUFORT COUNTY, NC  
PROPOSED USE OFFICE - BUSINESS  
OWNER REPRESENTATIVE GARRETT & MOORE ASSOCIATES  
CODE ENFORCEMENT BEAUFORT COUNTY

LEAD DESIGN PROFESSIONAL BEACON ARCHITECTURE + DESIGN, P.L.L.C.  
DESIGNER FIRM NAME LICENSE # TELEPHONE #  
ARCHITECTURAL BEACON ARCHITECTURE + DESIGN, P.L.L.C. CHRISTOPHER NASON 51585 (252) 441-6767  
CIVIL GARRETT & MOORE, P.E. CRAIG M. FORTNER 029929 (919) 792-1900  
ELECTRICAL COASTAL ENGINEERING, PLLC RICH KLEIN 027968 (757) 563-9027  
FIRE ALARM N/A N/A N/A  
PLUMBING COASTAL ENGINEERING, PLLC RICH KLEIN 027968 (757) 563-9027  
MECHANICAL COASTAL ENGINEERING, PLLC RICH KLEIN 027968 (757) 563-9027  
STRUCTURAL RPA ENGINEERING, P.A. MARK ROY, PE 032628 (252) 321-6027

YEAR EDITION OF CODE 2018 NORTH CAROLINA BUILDING CODE

BUILDING DATA CONSTRUCTION TYPE VB- EXISTING TO REMAIN UNCHANGED  
SPRINKLERS NO  
STANDPIPES NO  
FIRE DISTRICT NO  
BUILDING HEIGHT EXISTING TO REMAIN UNCHANGED  
MEZZANINE NO  
HIGH RISE NO  
GROSS BUILDING AREA 520 SF

SPRINKLERS NOT REQUIRED

ALLOWABLE AREA PRIMARY OCCUPANCY ATTENDANT OFFICE  
DESCRIPTION AND USE BUSINESS  
ALLOWABLE AREA/STORY\* 1/ 9,000 SF  
ACTUAL BUILDING AREA 1/ 520 SF

\* OPEN AREA INCREASE DUE TO FRONTAGE NOT REQUIRED TO COMPLY

ALLOWABLE HEIGHT TYPE OF CONSTRUCTION VB  
ALLOWABLE BUILDING HEIGHT 40 FEET  
ACTUAL BUILDING HEIGHT +/- 14'-0"

FIRE PROTECTION REQUIREMENTS FIRE SEPARATION DISTANCE 30' MIN. - SEE CIVIL SITE PLANS  
STRUCTURAL FRAME 0 HRS  
BEARING WALLS EXTERIOR 0 HRS  
INTERIOR 0 HRS  
NON-BEARING WALLS EXTERIOR 0 HRS  
INTERIOR 0 HRS  
ROOF 0 HRS

LIFE SAFETY SYSTEM REQUIREMENTS EMERGENCY LIGHTING REQUIRED  
EXIT SIGNS REQUIRED  
FIRE ALARM NOT REQUIRED  
SMOKE DETECTION SYSTEMS NOT REQUIRED  
PANIC HARDWARE NOT REQUIRED

ELEVATOR REQUIREMENTS ELEVATOR NOT REQUIRED- BUILDING IS ONE STORY WITH ADA THRESHOLDS AT DOORS AND SLOPED ENTRY.

#### EXIT REQUIREMENTS

##### NUMBER AND ARRANGEMENT OF EXITS- ONLY ONE EXIT REQUIRED\*

FLOOR, ROOM OR SPACE DESIGNATION	MIN. NUMBER OF EXITS		TRAVEL DISTANCE		ARRANGEMENT MEANS OF EGRESS	
	REQUIRED	SHOWN	ALLOWABLE	ACTUAL	REQUIRED DISTANCE	ACTUAL DISTANCE
OPEN OFFICE	1	1	100'	19'-5" MAX	N/A	N/A
ADA TOILET ROOM	1	1	100'	26'-0" MAX	N/A	N/A
STORAGE ROOM	1	1	100'	11'-0" MAX	N/A	N/A

\*FOR SPACES/BUILDINGS WITH LESS THAN 49 OCCUPANTS (SEE TABLE 1006.2.1)

#### EXIT WIDTH (1 STORY)

FLOOR, ROOM OR SPACE DESIGNATION	(a)	(b)	EGRESS WIDTH (IN. OCC.)		REQUIRED WIDTH	ACTUAL WIDTH
	AREA	AREA/OCC.	5.2	0.2		
BUSINESS USE	520	100 G	5.2	0.2	1.04"	34" CLR.
TOTAL OCCUPANTS	6 ACTUAL				2'	

#### PLUMBING FIXTURE REQUIREMENTS

OCCUPANCY	WATERCLOSETS		URINALS		LAVATORIES		DRINKING FOUNTAINS	
	MALE	FEMALE	MALE	FEMALE	REGULAR	ACCESSIBLE	REGULAR	ACCESSIBLE
BUSINESS (REQUIRED)	1 (1:25)	N/A	1 (1:40)	N/A	0 (1:100)	0	0	0
PROVIDED	1*	N/A	1*	N/A	0**	0***	0	0

\* NO SEPARATE FIXTURES REQUIRED FOR LESS THAN 26 OCCUPANTS. SEE SECTION 2902.2.2.  
\*\* DRINKING FOUNTAINS NOT REQUIRED FOR LESS THAN 16 OCCUPANTS. SEE SECTION 2902.6.  
\*\*\* SERVICE SINKS NOT REQUIRED FOR LESS THAN 26 OCCUPANTS. SEE TABLE 2902.1, FOOTNOTE "O".

#### STRUCTURAL DESIGN:

SEE STRUCTURAL ENGINEERING DRAWINGS

#### ENERGY SUMMARY:

SEE MECHANICAL ENGINEERING DRAWINGS

#### ACCESSIBLE PARKING

SEE CIVIL ENGINEERING DRAWINGS

#### ELECTRICAL SUMMARY

SEE ELECTRICAL ENGINEERING DRAWINGS

#### ENERGY/MECHANICAL SUMMARY

SEE MECHANICAL ENGINEERING DRAWINGS

### LIST OF DRAWINGS

#### ARCHITECTURAL DRAWINGS

- T1.1 TITLE SHEET
- T1.2 SPECIFICATIONS
- A1.1 BUILDING PLANS
- A1.2 ROOF PLAN & DETAILS
- A2.1 EXTERIOR ELEVATIONS
- A3.1 BUILDING SECTION & SCHEDULES

#### PLUMBING DRAWINGS

- P0.1 SPECIFICATIONS, LEGEND, ABBR., DETAILS, & SCHEDULE
- P2.1 FLOOR PLAN & RISERS
- P7.1 PLUMBING SPECIFICATIONS

#### MECHANICAL DRAWINGS

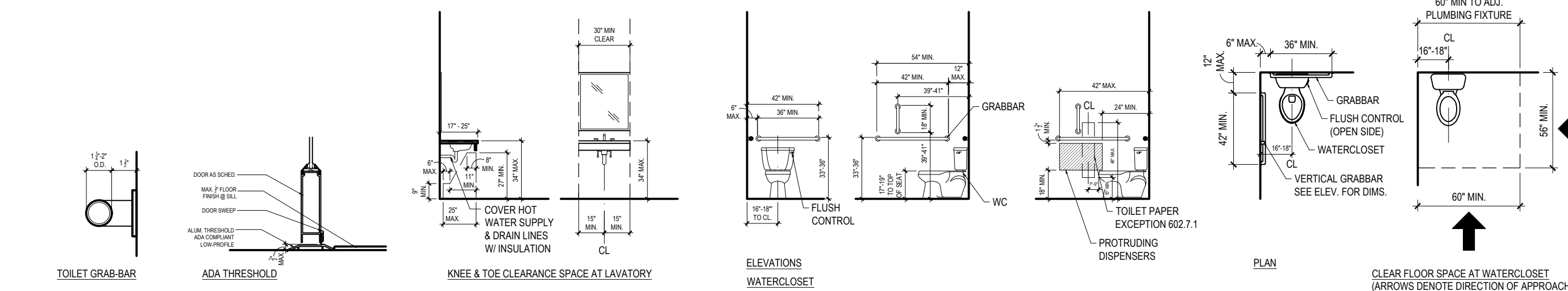
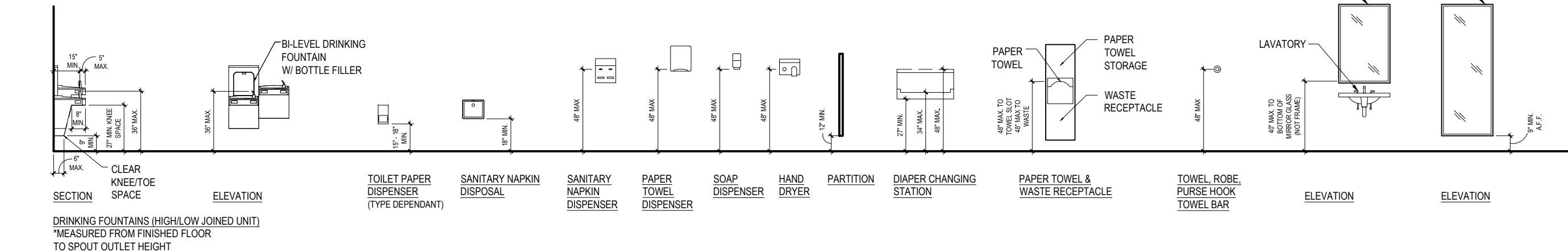
- M0.1 GEN. NOTES, LEGEND AND ABBREVIATIONS
- M2.1 FLOOR PLAN NEW WORK
- M6.1 MECHANICAL SCHEDULES
- M7.1 MECHANICAL SPECIFICATION

#### ELECTRICAL DRAWINGS

- E0.1 GENERAL NOTES, LEGEND AND ABBREVIATIONS
- E2.1 FLOOR PLAN - POWER AND SPECIAL SYSTEMS
- E2.2 FLOOR PLAN - LIGHTING SCHEDULE, RISER DIAGRAM, AND DETAIL
- E7.1 ELECTRICAL SPECIFICATIONS

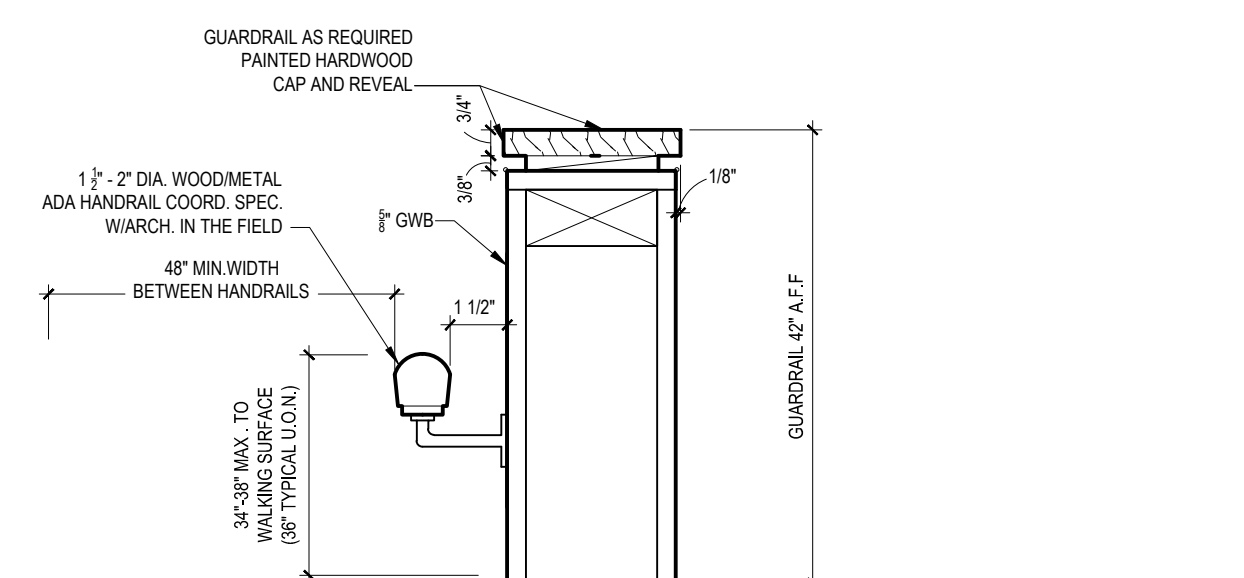
### CODE/ ADA INFORMATION

ELECTRICAL DEVICE AND FIXTURE MOUNTING HEIGHTS- ALL ADA FIXTURES SHALL MEET ANSI A117.1 REQUIREMENTS.



### SYMBOLS

- BUILDING SECTION
- ELEVATION SYMBOL
- ELEVATION LINE
- WINDOW/DOOR SYMBOL
- BUILDING DETAIL
- KEY BUBBLE



## DIVISION 0: GENERAL CONDITIONS

### GENERAL CONDITIONS (00700):

#### **WORK INCLUDED:**

1. CONFORM WORK TO THE CONTRACT DOCUMENTS WHICH INCLUDE THE OWNER/CONTRACTOR AGREEMENT, THE DRAWINGS, AND ALL ADDENDA AND MODIFICATIONS ISSUED BY THE ARCHITECT.
2. THE GENERAL CONDITIONS OF THE CONTRACT IS THE AMERICAN INSTITUTE OF ARCHITECTS' AIA DOCUMENT A201-2017, "GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION", WHICH IS MADE A PART OF THE CONTRACT DOCUMENTS AS IF BOUND HEREIN. THE ARCHITECT WILL PROVIDE A SINGLE COPY OF DOCUMENT UPON REQUEST.
3. THE ARCHITECT IS NOT RESPONSIBLE FOR MEANS METHODS OR TECHNIQUES IN THE CONSTRUCTION OF THE PROJECT.

## DIVISION 1: GENERAL REQUIREMENTS

### SUBMITTALS (01340):

#### **PROCEDURES:**

1. PRIOR TO COMMENCING SUBSTANTIAL PORTIONS OF THE WORK, PREPARE A MASTER SUBMITTAL LOG SHOWING EACH REQUIRED SUBMITTAL AND SPECIFICATION SECTION NUMBER, THE PROPOSED SCHEDULE AND SEQUENCING OF THE SUBMITTALS AND EACH AFFECTED CONTRACTOR. MAINTAIN THE LOG CURRENT WITH THE PROGRESS OF THE WORK. PROVIDE A COPY OF THE INITIAL AND UPDATED LOG TO THE ARCHITECT.
2. REVIEW SUBMITTALS AND INDICATE RESULTS OF REVIEW PRIOR TO SUBMITTING TO ARCHITECT.
3. AFTER REVIEW OF SUBMITTAL, REVISE AND RESUBMIT IF SO INDICATED; IDENTIFY CHANGES MADE SINCE PREVIOUS SUBMITTAL.
4. DISTRIBUTE COPIES OF REVIEWED SUBMITTALS TO CONCERNED CONTRACTORS INSTRUCT RECIPIENTS TO PROMPTLY REPORT ANY INABILITY TO COMPLY WITH PROVISIONS.
5. MAKE SUBMITTALS FAR ENOUGH IN ADVANCE OF SCHEDULED INSTALLATION DATES TO PROVIDE TIME REQUIRED FOR REVIEWS, FOR SECURING OF NECESSARY APPROVALS, FOR POSSIBLE REVISIONS AND RESUBMITTALS, AND FOR PLACING ORDERS AND SECURING DELIVERY.
6. SUBMITTALS PROVIDED FOR WORK AND FOR WHICH NO REQUIREMENT FOR SUBMITTAL IS STATED IN THE DRAWINGS OR SPECIFICATIONS WILL BE RETURNED WITHOUT REVIEW.

#### **SHOP DRAWINGS:**

1. SUBMIT THREE REPRODUCIBLE COPIES OF SHOP DRAWINGS (8 1/2" X 11" MINIMUM SIZE SHEETS)
2. ELECTRONIC EQUIVALENT SHOP DRAWINGS WILL ALSO BE ACCEPTABLE

#### **SAMPLES:**

1. SUBMIT A REASONABLE RANGE OF MANUFACTURER'S STANDARD COLORS, TEXTURES, ETC., FOR SELECTION WHERE SPECIFIC PRODUCT REQUIREMENTS HAVE NOT BEEN STATED OR WHERE SUBSTITUTIONS ARE PROPOSED.
2. SUBMIT SAMPLES TO ILLUSTRATE FUNCTIONAL AND SIGHT-EXPOSED CHARACTERISTICS OF THE PRODUCT, WITH INTEGRAL PARTS AND ATTACHMENT DEVICES.
3. INCLUDE IDENTIFICATION ON EACH SAMPLE, GIVING FULL INFORMATION.
4. SUBMIT THREE (3) SETS OF EACH PRODUCT FOR THE ARCHITECT PLUS ADDITIONAL SETS AS REQUIRED BY THE CONTRACTOR.

### SUBSTITUTIONS (01630):

#### **REQUESTS FOR SUBSTITUTIONS:**

1. SUBMIT SEPARATE REQUESTS FOR EACH PRODUCT AND SUPPORT EACH REQUEST WITH:

- A. PRODUCT IDENTIFICATION
- B. MANUFACTURER'S LITERATURE
- C. SAMPLES AS APPLICABLE
- D. NAME AND ADDRESS OF SIMILAR PROJECTS ON WHICH PRODUCT HAS BEEN USED AN DATE OF INSTALLATION.

2. REASON FOR SUBSTITUTION.
3. ITEMIZE A COMPARISON OF THE PROPOSED SUBSTITUTION WITH PRODUCT SPECIFIED AND LIST SIGNIFICANT VARIATIONS.
4. SUBMIT DATA RELATING TO CHANGES IN CONSTRUCTION SCHEDULE.
5. INCLUDE ACCURATE COST DATA COMPARING PROPOSED SUBSTITUTION WITH PRODUCT AND THE AMOUNT OF ANY NET CHANGE IN THE CONTRACT PRICE.
6. SUBSTITUTIONS WILL NOT BE CONSIDERED WHEN:
  - A. THEY ARE INDICATED OR IMPLIED ON SUBMITTALS WITHOUT A FORMAL REQUEST.
  - B. ACCEPTANCE WILL REQUIRE SUBSTANTIAL REVISION OF DRAWINGS AND SPECIFICATIONS.
  7. DO NOT ORDER OR PROVIDE SUBSTITUTE PRODUCTS WITHOUT APPROVAL.
  8. BURDEN OF PROOF OF MERIT OF PROPOSED SUBSTITUTION IS THE RESPONSIBILITY OF THE CONTRACTOR.

## DIVISION 2-5: SITEWORK

(SEE CIVIL ENGINEERING DRAWINGS, TYPICAL)

**FOR THIRD-PARTY GEOTECHNICAL TESTING RELATED TO THE BUILDING, SEE SCHEDULE OF SPECIAL INSPECTION DOCUMENT PROVIDED BY THE STRUCTURAL ENGINEER.**

## DIVISION 3: CONCRETE

**SEE STRUCTURAL SPECIFICATIONS, TYP.**

## DIVISION 4: MASONRY

**NOT APPLICABLE**

## DIVISION 5: ARCHITECTURAL METALS

**SEE STRUCTURAL SPECIFICATIONS, TYP.**

## DIVISION 6: WOOD & PLASTICS

### ROUGH CARPENTRY (06100):

#### **WORK INCLUDED:**

1. WOOD BLOCKING IN WALLS AND ABOVE CEILINGS.
2. PLYWOOD PANEL BOARDS.
3. SUB FLOORING
4. EXTERIOR SHEATHING
5. ROOF SHEATHING- BOTH PLYWOOD AS WELL AS CORRUGATED METAL ROOF DECKING
6. FIRE-RETARDANT TREATMENT
7. FOR STRUCTURAL SHEATHING SEE STRUCTURAL DRAWINGS.

#### **EXECUTION:**

1. CORRELATE LOCATION OF FURRING, NAILERS, BLOCKING, GROUNDS AND SIMILAR SUPPORTS SO THAT ATTACHED WORK WILL COMPLY WITH DESIGN REQUIREMENTS AND BE PROPERLY LOCATED.
2. CONSTRUCT MEMBERS OF CONTINUOUS PIECES OF LONGEST POSSIBLE LENGTHS.
3. FIT CARPENTRY WORK TO OTHER WORK. SCRIBE AND COPE AS REQUIRED FOR ACCURATE FIT.
4. SHIM WITH METAL OR SLATE FOR BEARING ON CONCRETE AND MASONRY SUBSTRATES.
5. SECURELY ATTACH CARPENTRY WORK TO SUBSTRATES BY ANCHORING AND FASTENING AS REQ'D. BY RECOGNIZED STANDARDS.
  - A. PROVIDE WASHERS UNDER BOLT HEADS AND NUTS IN CONTACT WITH WOOD.
  - B. NAIL PLYWOOD TO COMPLY WITH RECOMMENDATIONS OF THE AMERICAN PLYWOOD ASSOCIATION.

#### **6. WOOD GROUNDS, NAILERS, BLOCKING AND FURRING:**

- A. PROVIDE FOR SCREEDING AND ANCHORAGE OF OTHER WORK. FORM TO SHAPES SHOWN AND AS REQUIRED.
- B. COUNTERSINK BOLTS AND NUTS FLUSH WITH SURFACES WHERE NECESSARY FOR FLUSH INSTALLATION.
- C. PROVIDE GROUNDS OF DRESSED, KEY-BEVELED LUMBER NOT LESS THAN 1 1/2" WIDE AND OF THICKNESS REQUIRED TO BRING FACE OF GROUND TO EXACT THICKNESS OF FINISH MATERIAL INVOLVED. REMOVE TEMPORARY GROUNDS WHEN NO LONGER REQUIRED. WHERE INDICATED AS PERMANENT GROUND, PROVIDE TREATED LUMBER.
7. WALL AND ROOF SHEATHING: PROVIDE EXTERIOR GRADE PER STRUCTURAL ENGINEER SPECIFICATIONS EXTERIOR WALLS AND ROOF. PROVIDE STRUCTURAL GRADE WHERE SHOWN ON THE STRUCTURAL DRAWINGS. SHEATHING MUST BE COVERED WITH VAPOR BARRIER ON ROOFS AND WALLS. G.C. TO TAPE SEAMS AS REQ'D. AND SUBMIT MANUF. WARRANTIED PRODUCT FOR REVIEW BY THE ARCHITECT IN A SUBMITTED SHOP DRAWING. COVER SHEATHING AS SOON AS POSSIBLE AFTER INSTALLATION. DO NOT COVER WET OR DAMP SHEATHING. SHEATHING MUST BE DRY BEFORE INSTALLING MOISTURE PROTECTION. INSTALL SHEATHING IN ACCORDANCE WITH LOCAL AND STATE BUILDING CODES.

### CABINETWORK AND ARCHITECTURAL WOODWORK (06410):

1. PROVIDE SHOP FABRICATED CABINETWORK AND ARCHITECTURAL WOODWORK ITEMS COMPLETE WITH HARDWARE AND ACCESSORIES. AS INDICATED ON ARCHITECTURAL DRAWINGS.
2. ALL CABINETWORK AND ARCHITECTURAL WOODWORK INDICATED ON ARCHITECTURAL DRAWINGS SHALL BE FABRICATED IN ACCORDANCE WITH THE STANDARDS OF THE "ARCHITECTURAL WOODWORKING INSTITUTE" (AWI), INCLUDING WOOD SELECTION, JOINERY, SIZING FASTENING AND SHOP FINISHING AS FOLLOWS:
  - A. "CUSTOM GRADE" FOR PLASTIC LAMINATE OR OPAQUE FINISHED MILLWORK FINISHES AS INDICED ON THE DRAWINGS.
  - B. "HIGH PRESSURE LAMINATE AS AN ARCHITECTURAL WOODWORK MATERIAL" REFERENCED FOR PLASTIC LAMINATE MILLWORK.
  - C. "PREMIUM GRADE" FOR EXPOSED WOOD VENEER MILLWORK
3. ALL WOOD SHALL BE FIRE-RETARDANT TREATED AND SHALL COMPLY WITH REQUIREMENTS OF THE LOCAL BUILDING CODE.
4. SUBMITTALS:
  - A. SUBMIT THE FOLLOWING IN ACCORDANCE WITH DIVISION 1, SECTION 01340
  - B. SUBMIT SHOP DRAWINGS FOR ALL ARCHITECTURAL WOODWORK INCLUDING DIMENSIONED PLANS, ELEVATIONS, CROSS-SECTIONS, AND LARGE-SCALE DETAILS OF CONSTRUCTION TO ARCHITECT FOR REVIEW PRIOR TO FABRICATION. SHOP DRAWINGS SHALL INDICATE MATERIALS AND WOOD SPECIES, COMPONENT PROFILES, FASTENING, JOINTING, FINISHES, HARDWARE AND ACCESSORIES; AND ADJACENT WORK OF OTHER TRADES.
  - C. SUBMIT THREE (3) SAMPLES OF ALL ARCHITECTURAL WOODWORK FINISHES: PAINTED, LACQUER, AND PLASTIC LAMINATE. TO ARCHITECT FOR REVIEW AND ACCEPTANCE PRIOR TO FABRICATION.
  - D. SUBMIT CERTIFICATION OF FIRE-RETARDANT TREATMENT OF WOOD STATING THE NAME OF FIRE-RETARDANT MATERIALS USED, AND COMPLIANCE WITH AWPAC SPECIFICATION C1 AND C20 FOR LUMBER.
  5. PROTECT ALL ARCHITECTURAL WOODWORK ITEMS DURING TRANSIT, DELIVERY, STORAGE AND HANDLING TO PREVENT DAMAGE, SOILING AND DETERIORATION. THE WOODWORK CONTRACTOR AND GENERAL CONTRACTOR SHALL BE JOINTLY RESPONSIBLE TO MAKE CERTAIN THAT WOOD WORKING IS NOT DELIVERED UNTIL PAINTING, WET WORK AND SIMILAR OPERATIONS WHICH COULD DAMAGE FINISH WORK HAS BEEN COMPLETED.
  6. CONTRACTOR SHALL HAVE EXAMINED THE JOB SITE IN CONJUNCTION WITH PROJECT DOCUMENTS SO AS TO BE SATISFIED AS TO THE CONDITIONS UNDER WHICH THE WORK WILL BE PERFORMED, INCLUDING SUCH MATTERS AS UNLOADING FACILITIES, LOCATION AND SIZE OF ELEVATORS, EQUIPMENT OR DOCK FACILITIES AND ANY OTHER CONDITIONS NEEDED PRELIMINARY TO AND DURING THE WORK.
  7. WOODWORK CONTRACTOR SHALL NOTIFY THE ARCHITECT IN WRITING OF ANY DISCREPANCIES BETWEEN THE DRAWINGS AND FIELD CONDITIONS AND SHALL NOT PROCEED WITH THE PORTION OF WORK IN QUESTION UNTIL THE DISCREPANCIES ARE CLARIFIED.
  8. MATERIALS:
    - A. PLASTIC LAMINATE COLOR, MANUFACTURER, AND FINISH AS DESIGNATED ON FINISH PLANS, SHALL BE OF THE FOLLOWING TYPES FOR SPECIFIC APPLICATION, CONFORMING TO NEMA LD-3 AND ARCHITECT APPROVED SAMPLES. ADHESIVE: CONTACT TYPE, FS MM-A 130, AS RECOMMENDED BY MANUFACTURER TO SUIT APPLICATION.
    1. HORIZONTAL SURFACES: GENERAL PURPOSE TYPE, NOMINAL 0.050 INCH.
    2. VERTICAL SURFACES: VERTICAL SURFACE TYPE, NOMINAL 0.032 INCH.
    3. UNEXPOSED SURFACES: BALANCED WITH 0.020 INCH BACKING SHEET.
    4. BASES: SPECIFIED PURPOSE TYPE, NOMINAL 0.125 INCH.
    5. POSTFORMED COUNTERTOPS: POSTFORMING TYPE, NOMINAL 0.040 INCH.
    6. SEMI-EXPOSED SURFACES: CABINET LINER, LOW PRESSURE POLYESTER OVERLAY, NOMINAL 0.020 INCH, UNLESS NOTED TO RECEIVE PLASTIC LAMINATE ON DRAWINGS.
    - B. EXPOSED WOOD VENEER SHALL BE STAINED TO MATCH EXISTING, OPEN PORE W/STAIN RUBBED LACQUER FINISH. PROVIDE THE FOLLOWING MATCH AND ASSEMBLY FOR CONTINUOUS SEQUENTIAL USE OF FLITCHES OR EACH SEPARATE EXPANSE OF MATCHED WORK AS INDICATED (I.E. PANELS, DOORS, AND CASEWORK).
      1. HORIZONTAL MATCH: BOOK MATCH
      2. VERTICAL MATCH: END MATCH
      3. ASSEMBLY: CENTER MATCH EACH ASSEMBLY (USE EVEN NUMBER OF EQUAL WIDTH PIECES TO MAKE UP PANEL WIDTH).
    9. CABINET HARDWARE AND RELATED ACCESSORIES SHALL BE INDICATED ON MILLWORK DETAILS FOR APPROVAL.
    10. JUST PRIOR TO OWNER ACCEPTANCE, REMOVE PROTECTIVE COVERING, TOUCH UP AS REQUIRED, WIPE CLEAN, ADJUST AND LUBRICATE HARDWARE, AND CHECK FOR PROPER OPERATION OF ALL ITEMS. COORDINATE THIS WITH THE GENERAL CONTRACTOR.
    11. WOOD SUBSTRATE SHALL BE 3/4" PLYWOOD WITH LAMINATE VENEER APPLIED FINISH. TRIM MOULDING SHALL BE APPLIED OVER JOINTS OF VENEER SO THAT MINIMAL JOINTS ARE VISIBLE.
    12. PROVIDE SOLID HARDWOOD TRIM OF STAIN/PAINT GRADE TO MATCH SAMPLE FOR BASE TRIM. PROVIDE SHAPES AND THICKNESS SHOWN ON PLANS. ALL WORK IS TO BE TAPERED AND MITERED IN A PROFESSIONAL MANNER.

## DIVISION 7: THERMAL AND MOISTURE PROTECTION

### VAPOR BARRIERS/WEATHER RESISTIVE BARRIER (07200):

1. FOR THE BUILDING ROOF, G.C. TO PROVIDE SYNTHETIC ROOF UNDERLAYMENT TO MEET LOCAL WIND CODES AS WELL AS ASTM D226, ASTM D 4869, AC 188, ICC-ED ESR-4055 FBC APPROVED FL21895, ASTM E108, ASTM D5034, ASTM D4533, AND ASTM D4869. 30 YEAR WARRANTY AND RATED FOR 180 DAY (MIN) UV EXPOSURE. PRODUCT IS TO BE COMPATIBLE WITH ROOF MFG SO AS NOT TO VOID ANY WARRANTIES.
2. FOR THE WALLS, G.C. TO PROVIDE VAPOR BARRIER AT EXTERIOR WOOD FRAMED WALLS TO MEET OR EXCEED NORTH CAROLINA ENERGY CODES. TAPE SEAMS AS REQ'D. 30 YEAR WARRANTY AND RATED FOR 180 DAY (MIN) UV EXPOSURE. PRODUCT IS TO BE COMPATIBLE WITH SIDING MFG SO AS NOT TO VOID ANY WARRANTIES.
3. FOR THE SLAB, G.C. TO PROVIDE 10 MIL POLY (MINIMUM) VAPOR BARRIER ABOVE FINISHED BASE AND BELOW MONOLITHIC SLAB.

### INSULATION (07210):

1. ALL BLANKET INSULATION (BATTS): CONFORM TO FEDERAL SPECIFICATIONS HH-I-521, TYPE III.
2. FOR CEILINGS AND ATTIC SPACES USE R-38 PAPER FACED GLASS FIBER INSULATION OR EQUIV. POLY ISO SPRAY FOAM PRODUCT.
3. FOR EXTERIOR WALLS AND IN BETWEEN STORAGE/OFFICE USE R-15 PAPER FACED GLASS FIBER INSULATION OR EQUIV. POLY ISO SPRAY FOAM PRODUCT. FOR ALL OTHER WALLS USE R-13 MIN.
4. 3 1/2" THICK MIN. ACOUSTIC INSULATION AT INTERIOR WALLS TO FILL WALL CAVITY, MEETING ASTM C 665 WITH A NRC 1.05.

### METAL ROOF SYSTEMS (07610):

#### **GENERAL:**

1. ROOFING: PROVIDE LAYOUTS OF PANELS ON WALLS AND ROOFS, DETAILS OF EDGE CONDITIONS, JOINTS, CORNERS, CUSTOM PROFILES, SUPPORTS, ANCHORAGES, TRIM, FLASHINGS, CLOSURES, AND SPECIAL DETAILS. INCLUDE TRANSVERSE CROSS-SECTIONS.
2. SAMPLES FOR INITIAL SELECTION PURPOSES IN FORM OF MANUFACTURER'S COLOR CHARTS OR CHIPS SHOWING FULL RANGE OF COLORS, TEXTURES, AND PATTERNS AVAILABLE FOR METAL ROOFING AND SIDING PANELS WITH FACTORY-APPLIED FINISHES.
3. INSTALLER CERTIFICATES SIGNED BY METAL BUILDING MANUFACTURER WRITTEN CERTIFICATION CERTIFYING THAT THE INSTALLER COMPLIES WITH REQUIREMENTS INCLUDED UNDER THE "QUALITY ASSURANCE" ARTICLE.
4. ALL METAL ROOFING MANUFACTURERS THAT MEET THE SPECIFICATIONS WILL BE CONSIDERED. REVIEW OF PRODUCT WILL TAKE PLACE DURING SUBMITTAL PROCESS AFTER BID HAS BEEN AWARDED. ANY AND ALL COSTS ASSOCIATED WITH THE METAL ROOF, SUBSTRATE, OR WARRANTIES - INCLUDING SELF-INSURED - SHALL BE INCLUDED IN THE BIDS. CHANGE ORDERS WILL NOT BE ACCEPTED.

#### **QUALITY ASSURANCE:**

1. INSTALLER QUALIFICATIONS: ENGAGE AN EXPERIENCED INSTALLER WHO HAS SPECIALIZED IN THE ERECTION AND INSTALLATION OF TYPES OF METAL ROOFING SYSTEMS SIMILAR TO THAT REQUIRED FOR THIS PROJECT AND WHO IS CERTIFIED IN WRITING BY THE CONTRACTOR MANUFACTURER AS QUALIFIED FOR ERECTION OF THE MANUFACTURER'S PRODUCTS.
- COORDINATE METAL ROOF ASSEMBLIES WITH RAIN DRAINAGE WORK, FLASHING, TRIM, AND CONSTRUCTION OF SUPPORTS AND OTHER ADJOINING WORK TO PROVIDE A LEAKPROOF, SECURE, AND NONCORROSIVE INSTALLATION.

#### **WARRANTY:**

1. SPECIAL WARRANTY ON METAL FINISHES: MANUFACTURER'S STANDARD FORM IN WHICH MANUFACTURER AGREES TO REPAIR FINISH OR REPLACE METAL ROOF THAT SHOW EVIDENCE OF DETERIORATION OF FACTORY-APPLIED FINISHES WITHIN SPECIFIED WARRANTY PERIOD.
2. KYNAR 500 FINISH: DETERIORATION INCLUDES, BUT IS NOT LIMITED TO, THE FOLLOWING:
  - COLOR FADING MORE THAN 5 HUNTER UNITS WHEN TESTED ACCORDING TO ASTM D 2244.
  - CHALKING IN EXCESS OF A NO. 8 RATING WHEN TESTED ACCORDING TO ASTM D 4214.
  - CRACKING, CHECKING, PEELING, OR FAILURE OF PAINT TO ADHERE TO BARE METAL. FINISH WARRANTY PERIOD: 20 YEARS FROM DATE OF SUBSTANTIAL COMPLETION.
- SPECIAL WEATHERIGHTNESS WARRANTY FOR STANDING-SEAM METAL ROOF PANELS: MANUFACTURER'S STANDARD FORM IN WHICH MANUFACTURER AGREES TO REPAIR OR REPLACE STANDING-SEAM, METAL ROOF PANEL ASSEMBLIES THAT FAIL TO REMAIN WEATHERIGHT, INCLUDING LEAKS, WITHIN SPECIFIED WARRANTY PERIOD. WARRANTY PERIOD: 30 YEARS FROM DATE OF SUBSTANTIAL COMPLETION. IT SHALL INCLUDE ANY NECESSARY ENHANCED WIND RIDERS TO MEET THE REQUIRED 130MPH WIND RATING, NO EXCEPTIONS.
3. G.C. HOLDS THE RIGHT TO COMPLETELY ICE AND WATER SHIELD ENTIRE ROOF TO OBTAIN WEATHERTIGHT WARRANTY OR SELF-INSURE BY HIRING THIRD PARTY INSPECTOR TO VERIFY PROPER INSTALLATION.

#### **ROOFING:**

1. ROOF PANELS: MANUFACTURER'S STANDARD FACTORY-FORMED ROOF PANEL SYSTEM DESIGNED FOR THROUGH FASTENING OF PANELS TO ROOF FRAMING. FORM PANELS OF 0.32 ALUMINUM SHEETS WITH 16" COVERAGE AND 1 1/2" MIN. STANDING SEAMS. ROOF PANEL PAINTING SHALL BE KYNAR 500 OR APPROVED EQUAL.
2. FASTENERS: SELF-TAPPING SCREWS, BOLTS, NUTS, SELF-LOCKING RIVETS, SELF-LOCKING BOLTS, END WELDED STUDS, AND OTHER SUITABLE FASTENERS DESIGNED TO WITHSTAND DESIGN LOADS.
3. PROVIDE METAL-BACKED NEOPRENE WASHERS UNDER HEADS OF FASTENERS BEARING ON WEATHER SIDE OF PANELS.
4. LOCATE AND SPACE FASTENINGS IN TRUE VERTICAL AND HORIZONTAL ALIGNMENT. USE PROPER TOOLS TO OBTAIN CONTROLLED UNIFORM COMPRESSION FOR POSITIVE SEAL WITHOUT RUPTURE OF NEOPRENE WASHER.
5. PROVIDE FASTENERS WITH HEADS MATCHING COLOR OF ROOFING OR SIDING SHEETS BY MEANS OF PLASTIC CAPS OR FACTORY-APPLIED COATING AS REQUIRED BY ROOFING SYSTEM.
6. MANUFACTURER TO PROVIDE STRIATIONS AS REQ'D. TO AVOID "OIL CANNING".

#### **INSTALLATION:**

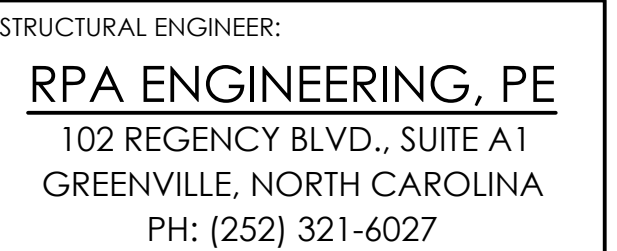
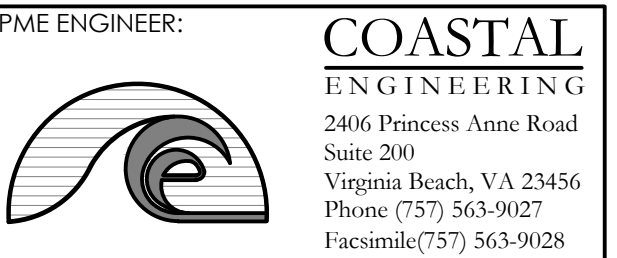
1. PROVIDE METAL ROOF PANELS OF FULL LENGTH FROM EAVE TO RIDGE, UNLESS OTHERWISE INDICATED OR RESTRICTED BY SHIPPING LIMITATIONS.
2. INSTALL RIDGE AND HIP CAPS AS METAL ROOF PANEL WORK PROCEEDS.
3. FLASH AND SEAL METAL ROOF PANELS WITH WEATHER CLOSURES AT EAVES AND RAKES. FASTEN WITH SELF-TAPPING SCREWS.
4. STANDING-SEAM METAL ROOF PANELS: FASTEN METAL ROOF PANELS TO SUPPORTS WITH CONCEALED CLIPS AT EACH STANDING-SEAM JOINT AT LOCATION, SPACING, AND WITH FASTENERS RECOMMENDED BY MANUFACTURER.
5. INSTALL CLIPS TO SUPPORTS WITH SELF-TAPPING FASTENERS.
6. INSTALL PRESSURE PLATES AT LOCATIONS INDICATED IN MANUFACTURER'S WRITTEN INSTALLATION INSTRUCTIONS.
7. SNAP JOINT: NEST STANDING SEAMS AND FASTEN TOGETHER BY INTERLOCKING AND COMPLETELY ENGAGING FACTORY-APPLIED SEALANT.
8. SEAMED JOINT: CRIMP STANDING SEAMS WITH MANUFACTURER-APPROVED MOTORIZED SEAMER TOOL SO CLIP, METAL ROOF PANEL, AND FACTORY-APPLIED SEALANT ARE COMPLETELY ENGAGED.
9. RIGIDLY FASTEN EAVE END OF METAL ROOF PANELS AND ALLOW RIDGE END FREE MOVEMENT DUE TO THERMAL EXPANSION AND CONTRACTION. PREDRILL PANELS FOR FASTENERS.
10. PROVIDE METAL CLOSURES AT PEAKS, RAKE EDGES AND EACH SIDE OF RIDGE AND HIP CAPS.
11. METAL ROOF PANEL INSTALLATION TOLERANCES: SHIM AND ALIGN METAL ROOF PANELS WITHIN INSTALLED TOLERANCE OF 1/4 INCH IN 20 FEET (6 MM IN 6 M) ON SLOPE AND LOCATION LINES AS INDICATED AND WITHIN 1/8-INCH (3-MM) OFFSET OF ADJOINING FACES AND OF ALIGNMENT OF MATCHING PROFILES.
12. INSTALL THICKER ROOF SHEATHING AS REQUIRED BY ROOF MANUFACTURER TO MEET HIGH WIND ZONES.

#### **ACCESSORY INSTALLATION:**

1. INSTALL ACCESSORIES WITH POSITIVE ANCHORAGE TO BUILDING AND WEATHERTIGHT MOUNTING, AND PROVIDE FOR THERMAL EXPANSION. COORDINATE INSTALLATION WITH FLASHINGS AND OTHER COMPONENTS.
2. INSTALL COMPONENTS REQUIRED FOR A COMPLETE METAL ROOF PANEL ASSEMBLY INCLUDING TRIM, COPINGS, RIDGE CLOSURES, SEAM COVERS, FLASHINGS, SEALANTS, GASKETS, FILLERS, CLOSURE STRIPS, AND SIMILAR ITEMS.
3. INSTALL COMPONENTS FOR A COMPLETE METAL WALL PANEL ASSEMBLY INCLUDING TRIM, COPINGS, CORNERS, SEAM COVERS, FLASHINGS, SEALANTS, GASKETS, FILLERS, CLOSURE STRIPS, AND SIMILAR ITEMS.
4. WHERE DISSIMILAR METALS WILL CONTACT EACH OTHER OR CORROSIVE SUBSTRATES, PROTECT AGAINST GALVANIC ACTION BY PAINTING CONTACT SURFACES WITH BITUMINOUS COATING, BY APPLYING RUBBERIZED-ASPHALT UNDERLAYMENT TO EACH CONTACT SURFACE, OR BY OTHER PERMANENT SEPARATION AS RECOMMENDED BY MANUFACTURER.
5. FLASHING AND TRIM: COMPLY WITH PERFORMANCE REQUIREMENTS, MANUFACTURER'S WRITTEN INSTALLATION INSTRUCTIONS, AND SMACNA'S "ARCHITECTURAL SHEET METAL MANUAL." PROVIDE CONCEALED FASTENERS WHERE POSSIBLE, AND SET UNITS TRUE TO LINE AND LEVEL AS INDICATED. INSTALL WORK WITH LAPS, JOINTS, AND SEAMS THAT WILL BE PERMANENTLY WATERIGHT AND WEATHER RESISTANT.
6. INSTALL EXPOSED FLASHING AND TRIM THAT IS WITHOUT EXCESSIVE OIL CANNING, BUCKLING, AND TOOL MARKS AND THAT IS TRUE TO LINE AND LEVELS INDICATED, WITH EXPOSED EDGES FOLDED BACK TO FORM HEMS. INSTALL SHEET METAL FLASHING AND TRIM TO FIT SUBSTRATES AND TO RESULT IN WATERPROOF AND WEATHER-RESISTANT PERFORMANCE.
7. EXPANSION PROVISIONS: PROVIDE FOR THERMAL EXPANSION OF EXPOSED FLASHING AND TRIM. SPACE MOVEMENT JOINTS AT A MAXIMUM OF 10 FEET (3 M) WITH NO JOINTS ALLOWED WITHIN 24 INCHES (600 MM) OF CORNER OR INTERSECTION, WHERE LAPPED OR BAYONET-TYPE EXPANSION PROVISIONS CANNOT BE USED OR WOULD NOT BE SUFFICIENTLY WEATHER RESISTANT AND WATERPROOF, FORM EXPANSION JOINTS OF INTERMESHING HOOKED FLANGES, NOT LESS THAN 1 INCH (25 MM) DEEP, FILLED WITH MASTIC SEALANT (CONCEALED WITHIN JOINTS).

#### **GUTTERS AND DOWN SPOUTS:**

1. G.C. TO LOCATE IN THE FIELD AND TIE INTO CIVIL AS REQ'D.
2. TO BE ALUMINUM K STYLE SEAMLESS GUTTER (4 1/2" X 6") W/ 3"x4" BOX DOWNSPOUT (MIN.) (SEE PLANS FOR LOCATIONS).
3. COLOR TO MATCH ROOF.
4. SUBMIT SAMPLES TO ARCHITECT FOR APPROVAL PRIOR TO PURCHASE.



PROJECT NAME:

# ATTENDANT BUILDING

North Boyd  
Beaufort County  
North Carolina

REVISIONS:	DATE:
ISSUED FOR BID	3 / 30 / 26

DRAWING NAME:

# SPECIFICATIONS

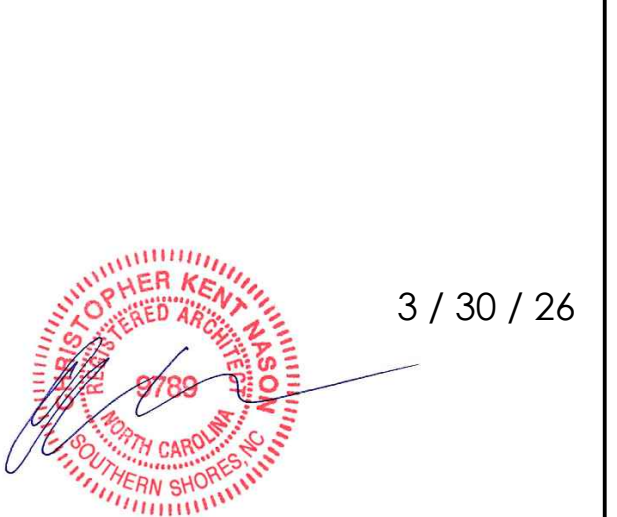
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SHEET:

# T1.2

**EXTERIOR BUILDING SIDING AND TRIM (07460):**

1. 0.46"-0.52" THICK MIN, VINYL 7" TRADITIONAL LAP OR BOARD & BATTEN SIDING BY CERTAINTED CERTA PLANK/BOARD & BATTEN OR EQUIVALENT; STYLE AND LOCATION AS INDICATED ON THE BUILDING ELEVATIONS FOR DESIGN INTENT.
2. REFER TO SELECTED MFG. FOR INSTALLATION INSTRUCTIONS AND ADDITIONAL SPECIFICATION INFO.
3. VINYL SIDING TO HAVE ROUGH CEDAR TEXTURE.
4. SUBMIT SAMPLE TO ARCHITECT FOR APPROVAL PRIOR TO PURCHASE.
5. SIDING AND TRIM IS TO BE WARRANTEE FOR LIFETIME AND ACCEPTABLE FOR USE IN EXTREME COASTAL ENVIRONMENTS.
6. FASTENERS TO BE APPROVED BY THE SELECTED MANUFACTURER TO CONFORM TO PRODUCT SPECIFICATIONS AND TO PROVIDE CORROSION RESISTANCE.
7. ALL VINYL SIDING PRODUCTS TO RECEIVE A FACTORY PRIMER WITH TOP COAT APPLIED IN THE FIELD TO THE SPECS. OF THE SELECTED PRODUCT MANUFACTURER TO MAINTAIN WARRANTY.
8. COLOR TO BE DETERMINED BY THE ARCHITECT AND CLIENT IN THE FIELD.
9. PROVIDE VENTED VINYL SIDING SHEET MATERIALS FOR EXTERIOR SOFFITS AND SOFFIT FASCIAS. (USE 12' LONG SHEETS)
10. BUILDING TRIM TO BE SOLID  $\frac{3}{4}$ " THICK EXTRUDED PVC, OR EQUIVALENT, OF SIZES AND LOCATIONS TO MATCH ELEVATIONS. REFER TO SELECTED MFG. FOR INSTALLATION INSTRUCTIONS
11. TRIM, SIDING, AND SOFFIT MATERIAL TO HAVE A WOOD GRAIN FINISH. SEE ARCH. DRAWINGS FOR MORE INFORMATION. PRODUCT SHOULD BE PAINTABLE PER SELECTED MFG SPECIFICATIONS. ONE-PIECE CORNER TRIM IS ACCEPTABLE IF IT MEETS DIMENSIONAL REQ'S.
12. EXTERIOR BATTEN STRIPS TO BE SPACED AT APPROX. 8" O.C. MIN., NO EXCEPTIONS.
13. UNDER PORCHES, VENTED VINYL SOFFIT MATERIAL SHALL BE UTILIZED.
14. HORIZONTAL SEAMS WILL ONLY BE ACCEPTABLE AS INDICATED ON EXTERIOR ELEVATIONS.

**SEALANTS AND CAULKING (07915):**

- GENERAL: ALL SEALANTS AND CAULKING SHALL BE NON-STAINING TO ADJACENT EXPOSED MATERIALS.
1. POLYURETHANE OR LOW MODULUS SILICONE SEALANTS: ONE PART SEALANT SHALL BE USED AT ALL EXTERIOR JOINTS, AT DOORS, WINDOWS AND WHERE DISSIMILAR MATERIALS ABUT. USE LEVEL CAULKING AS RECOMMENDED AND PRICED BY GENERAL CONTRACTOR.
  2. ACRYLIC LATEX CAULKING: ONE COMPONENT ACRYLIC WATER BASED COMPOUND TRIMFLEX 834 BY PECORA OR APPROVED EQUAL. USE LATEX CAULKING FOR ALL INTERIOR JOINTS. DO NOT USE IF TEMPERATURE IS BELOW 45 DEGREES F. (USE BUTYL RUBBER BASED PERCORA AC-20 BELOW 45 DEGREES F.)
  3. BACKUP MATERIALS, FILLERS AND JOINT PACKING: AS RECOMMENDED BY SEALANT MANUFACTURER. IN GENERAL, USE CLOSED CELL, BEAD OR ROPE SHAPED EXPANDED POLYURETHANE.

**DIVISION 8: DOORS, WINDOW & GLASS**

**EXTERIOR DOORS (08100):**

1. DOORS STYLE TO MATCH EXTERIOR ELEVATIONS AND DOOR SCHEDULE.
2. DOORS TO HAVE SMOOTH FINISH.
4. WEATHERSTRIPPING TO BE INSTALLED AS REQUIRED AND TO MEET ADA REQ'S.
5. HINGES AND STRIKES TO BE CORROSION RESISTANT MATERIAL (COASTAL HARDWARE) WITH SCREWS TO MATCH.
6. FRAME CAN BE FIELD CONSTRUCTED OR BE PROVIDED BY THE DOOR MANUFACTURER WITH PROFILE AND STOP TO MATCH WALL THICKNESS.
7. ADA THRESHOLD AND ADA HARDWARE AT ALL EXTERIOR LOCATIONS PER THE DOOR SCHEDULE. NO EXCEPTIONS.
8. G.C. TO PROVIDE PRE-CUT AND PREDRILLED  $\frac{3}{16}$ " TH. STRUCTURAL PLYWOOD PANELS AND PROPER STAINLESS STEEL SCREWS TO MEET BASELINE WINDBOURNE DEBRIS REQUIREMENTS. COORDINATE WITH LOCAL BUILDING INSPECTOR FOR ALL REQ'S.
9. DOOR COLOR TO BE WHITE TO MATCH WINDOWS.
10. ALL DOORS TO MEET NC COMMERCIAL ENERGY CODE REQUIREMENTS.

**INTERIOR DOORS (08200):**

1. PROVIDE MOLDED WOOD COMPOSITE DOORS AS INDICATED ON ARCHITECTURAL DRAWINGS.
2. SOLID CORE WOOD DOORS: FLUSH TYPE 1  $\frac{3}{4}$ " THICK (MINIMUM, UNLESS OTHERWISE NOTED) SOLID BLOCK OR STILE AND RAIL CORE. TYPE AS (5 PLY) CONSTRUCTION DOORS SHALL BE PREMIUM GRADE PER AWI STANDARDS. FACE VENEERS AND SHALL FINISH BE INDICATED ON DOOR SCHEDULE.
  - A. PROVIDE SOLID WOOD BLOCKING FOR ALL DOOR HARDWARE SUCH THAT NO THROUGH BOLT WILL BE REQUIRED TO PERMANENTLY MOUNT HARDWARE ON DOOR. IF BLOCKING IS NOT PRACTICAL, PROVIDE STAVE-CORE WOOD DOORS.
  - B. EXECUTION: DOORS SHALL HAVE ALL HANDLING MARKS OR EFFECTS OF EXPOSURE TO MOISTURE. FINAL SANDING OVER ALL EXPOSED SURFACES USING 150 GRIT OR FINER SANDPAPER AND SHALL THEN BE BRUSHED CLEAN.
  - C. PRIME OR SEAL ALL WOOD DOORS ON ALL SIDES AND EDGES. WHERE ITEMS ARE FURNISHED PRE-PRIMED, TOUCH UP ALL ABRASIONS.
3. INSTALLATION:
  - A. HANGING DOORS: ALL DOORS SHALL BE EXPERTLY HUNG, PLUMB AND LEVEL AND SHALL FIT SNUG AGAINST ALL STOPS. FIT ACCURATELY AND HANG FREE FROM HINGE.
  - B. HARDWARE SHALL BE FITTED TO FINISHING AND THEN REMOVED AND FINISHING COMPLETED BEFORE FINAL INSTALLATION OF HARDWARE. FINISH HARDWARE MUST BE NEATLY AND PROPERLY INSTALLED IN ACCORDANCE WITH BEST PRACTICES AS PRESCRIBED BY MANUFACTURERS AND AS APPROVED BY ARCHITECT.

**WINDOWS (08500):**

1. WINDOWS SHALL BE AS SHOWN AND SCHEDULED.
2. ALL OPERABLE WINDOWS MUST HAVE INSECT SCREENS
3. FOR SIZING AND GRILLE PATTERNS SEE PLANS AND ELEVATIONS FOR FURTHER INFORMATION.
4. GLAZING TO BE LOW-E TO MATCH LOCAL DESIGN PRESSURE AND ASTM REQUIREMENTS FOR 130 MPH WIND PRESSURE AS WELL AS NC COMMERCIAL ENERGY CODE REQUIREMENTS.
5. WEATHERSTRIPPING TO BE PROVIDED TO MEET REQUIREMENTS FOR EXTREME COASTAL ENVIRONMENTS.
6. COLOR IS TO BE WHITE TO MATCH THE EXTERIOR DOORS. SEE WINDOW SCHEDULE FOR MORE INFORMATION.
7. STRICTLY COMPLY WITH MANUFACTURERS INSTALLATION INSTRUCTIONS. FOLLOW FLASHING REQUIREMENTS CLOSELY.
8. G.C. TO PROVIDE PRE-CUT AND PREDRILLED  $\frac{3}{16}$ " TH. STRUCTURAL PLYWOOD PANELS AND PROPER STAINLESS STEEL SCREWS TO MEET BASELINE WINDBOURNE DEBRIS REQUIREMENTS. COORDINATE WITH LOCAL BUILDING INSPECTOR FOR ALL REQ'S.
9. ALL HARDWARE TO BE WARRANTEE FOR COASTAL LOCATIONS.

**FINISH HARDWARE (08700):**

1. PROVIDE FINISH HARDWARE AS INDICATED ON DOOR/HARDWARE SCHEDULE ON ARCHITECTURAL DRAWINGS.
2. SUBMITTALS:
  - A. FOLLOW IN ACCORDANCE WITH DIVISION 1 SECTION 01340.
  - B. PRODUCT DATA: SUBMIT MANUFACTURER CATALOG CUTS FOR EACH HARDWARE ITEM.
  - C. HARDWARE ITEMS:
    - A. SEE DOOR SCHEDULE FOR HARDWARE GROUP FUNCTIONS, LOCATIONS AND DOOR TYPES.
    - B. BUTTS: ALL EXTERIOR DOORS TO HAVE NONFERROUS BUTTS WITH NON-REMOVABLE PINS. LABELED DOORS SHALL HAVE STEEL BUTTS. WHERE LABELED DOORS ARE EXTERIOR OUT SWINGING, PROVIDE STAINLESS STEEL BUTTS UNLESS OTHERWISE SPECIFIED, SIZE OF BUTTS WILL BE DETERMINED BY THE FOLLOWING TABLE:
1. SIZE AND TYPE
- A. DOORS 1  $\frac{3}{4}$ " THICK AND UP TO 41" WIDE: 4  $\frac{1}{2}$ " HEAVYWEIGHT BALL BEARING

- B. DOORS 1  $\frac{3}{4}$ " THICK AND 41" TO 48" WIDE: 4  $\frac{1}{2}$ " EXTRA HEAVYWEIGHT BALL BEARING OR OILITE BEARING.
- C. DOORS 2" THICK AND/OR OVER 48" WIDE: 5" EXTRA HEAVYWEIGHT BALL BEARING OR OILITE BEARING.
2. PROVIDE WIDTHS SUFFICIENT TO CLEAR TRIM PROJECTION WHEN DOOR SWINGS 180 DEGREES.
3. PROVIDE 2 HINGES TO 60" HIGH, 3 HINGES TO 90" HIGH, 4 HINGES TO 120" HIGH FOR EACH DOOR LEAF, UNLESS OTHERWISE SPECIFIED OR INDICATED
4. FINISH: MATCH LOCKSET OR LATCHSET UNLESS OTHERWISE SPECIFIED OR INDICATED.
- C. LOCKSETS AND LATCHSETS: PROVIDE HEAVY DUTY CYLINDER (MORTISE) CASES OF METAL MATCHING SPECIFIED FINISH: INTERIOR PARTS OF STEEL AND ZINC-DICHROMATE PLATING TO RESIST RUSTING AND CORROSION. DO NOT SUPPLY PLASTIC, DIE-CAST OR ALUMINIUM MECHANISMS. CYLINDERS SHALL HAVE FULL ROUND PLUGS OF EXTRUDED BRASS BAR MATERIAL, AND BE 6-PIN TUMBLER TYPE.
1. FINISH: COORDINATE WITH ARCHITECT AND TOWN IN THE FIELD
2. BACK SET: MATCH FINISH
3. STRIKES- PROVIDE STANDARD BOX-TYPE STRIKES: FURNISH WITH EXTENDED LIPS WHERE REQUIRED TO PROTECT TRIM FROM BEING MARRED BY LATCH BOLT. VERIFY WHETHER STANDARD OR ANSI CUTOUTS ARE PROVIDED IN METAL FRAMES.
- D. KEYS AND KEYING - COORDINATE KEYING WITH OWNERS.
  1. PROVIDE 2 GRAND MASTER KEYS TO ACCESS ALL BUILDING DOORS.
  2. PROVIDE 2 MASTER KEYS EACH FOR INTERIOR AND EXTERIOR DOORS.
  3. KEY ALL INTERIOR DOORS INDIVIDUALLY.
  4. PROVIDE 2 KEYS FOR EACH LOCKSET.
  5. PROVIDE A LOCKABLE KEY BOX TO BE HUNG WHERE DIRECTED BY OWNER.
- E. CLOSERS- EXTERIOR AND INTERIOR DOORS: 5 POUNDS, COMMERCIAL GRADE ONLY.
- F. DOOR STOPS- PROVIDE BASE MOUNTED STOPS AT ALL INTERIOR DOORS. FINISH TO MATCH LOCKSETS.

**DIVISION 9: FINISHES**

**GYPSON WALLBOARD SYSTEMS (092000):**

1. GYPSUM WALLBOARD MATERIALS AND INSTALLATION SHALL BE IN ACCORDANCE WITH RECOMMENDATIONS OF ASTM C645, C754, AND C840; AND GYPSUM ASSOCIATION GA-216.
  - A. FIRE-RATED CONSTRUCTION SHALL BE LISTED AND LABELED UL AND CONFORM TO REQUIREMENTS OF GOVERNING CODES AND REGULATIONS.
- B. THE CONTRACTOR SHALL BE RESPONSIBLE FOR USING COMPATIBLE PRODUCTS FOR COMPLETE CONSTRUCTION ASSEMBLY.
2. GYPSUM WALLBOARD SHALL BE  $\frac{5}{8}$ " THICK MIN. AS SPECIFIED ON THE ARCHITECTURAL PLANS, AND APPLIED VERTICALLY WITH SCREW FASTENERS, IN GENERAL, PROVIDE TAPING AND FINISH SPACKLING WITH COMPATIBLE MATERIAL. PARTITIONS SHALL BE BRACED OR SECURED SUFFICIENTLY FROM DEFLECTION OF  $\frac{1}{8}$ " PER 10'-0" LENGTH IN ANY DIRECTION. PROVIDE TEMPORARY BRACING OF PARTITIONING WORK WHERE REQUIRED TO DIMINISH DEFLECTION PROBLEMS.
3. JOINTS GREATER THAN  $\frac{1}{4}$ " AT CEILINGS SHALL BE REJECTED. PROVIDE CAULKING AT CEILING FOR PARTITIONS THAT TERMINATE AT THE CEILING.
4. . ALL DRYWALL PARTITIONING SHALL BE PLUMB, LEVEL, TRUE AND STRAIGHT, PROPERLY BRACED AND RIGID. SURFACES SHALL BE SMOOTH, UNTEXTURED, AND FREE FROM FLAWS AND DEFECTS IN A READY TO PAINT CONDITION. ALL TAPING AND FINISH SPACKLING SHALL BE PREPARED SO THAT LOCATION OF JOINTS AND BLEMISHES CANNOT BE DETECTED AFTER WALL HAS BEEN PAINTED.
5. ALL DRYWALL IS TO BE TAPED, SANDED AND READY FOR PAINT APPLICATION. SEE FINISH SCHEDULE FOR PAINT SPECS.

**SEALED CONCRETE (096100):**

1. HIGH-PERFORMANCE NON-YELLOWING SEALER TO BE USED ON POROUS CONCRETE.
2. SEALER SHALL DRY TO A MATTE FINISH, ENHANCE COLOR AND PENETRATE THE SURFACE TO RETARD AND RESIST OIL, FOOD, AND LIGHT STAINING.
3. PREPARE CONCRETE FLOOR PER MANUFACTURER SPECS PRIOR TO SEALANT APPLICATION. CLOSELY FOLLOW MANUFACTURER'S RECOMMENDATIONS.

**VINYL WALL BASE (096513):**

1. COMMERCIAL 4" HIGH, 0.080" GAUGE, BASE.
2. PROVIDE SAMPLES FOR REVIEW BY THE ARCHITECT PRIOR TO INSTALL. SEE DIVISION 1 FOR MORE INFORMATION.
4. INSTALLATION:
  - A. EXAMINE THE SUBSTRATE AND CONDITIONS UNDER WHICH THE FLOORING IS TO BE INSTALLED AND NOTIFY THE ARCHITECT IN WRITING OF CONDITIONS DETRIMENTAL TO THE PROPER AND TIMELY COMPLETION OF THE WORK.
  - B. SURFACES MUST BE DRY, CLEAN, STRUCTURALLY SOUND AND FREE FROM MOISTURE, ALKALI, DUST, DIRT, WAX, OILS, GREASE, LOOSE PAINT OR PLASTER, WALL COVERINGS OR OTHER FOREIGN MATTER.
  - C. USE PROPER ADHESIVE FOR SUBSTRATE.
  - D. FOLLOW MANUFACTURERS INSTALLATION METHOD INCLUDING THAT OF INSIDE/OUTSIDE CORNER PIECE SIZNG, MITERED OR WRAPPED CORNERS.

**PAINTING (09900):**

1. APPLICATOR SHALL INSPECT ALL SURFACES SCHEDULED TO RECEIVE NEW FINISH. A WATER-BASED OR ACRYLIC EPOXY (SINGLE OR TWO-COMPONENT) SHALL BE USED FOR BEST ADHESION TO DRYWALL, TAPE, JOINTS AND INDENTATIONS SHALL NOT "TELESCOPE" OR READ THROUGH THE PAINT FINISH OR WALL COVERING DO NOT PROCEED WITH WORK UNTIL UNSATISFACTORY CONDITIONS HAVE BEEN CORRECTED.
2. WORK SHALL BE 3 COAT APPLICATION USING COMPATIBLE PRIMERS AND PREPARATION ON SUBSTRATES AS RECOMMENDED BY FINISH COAT MANUFACTURERS. ALL PAINTING MATERIALS SHALL BE USED ONLY IN STRICT CONFORMANCE WITH THE MANUFACTURER'S LATEST PRINTED SPECIFICATIONS AND INSTRUCTIONS.
3. PAINT SHALL BE APPLIED BY SKILLED TRADESMEN AND SHALL BE FREE OF ALL RUNS, BRUSH MARKS, SAGS, HOLIDAYS AND OTHER DEFECTS. ARCHITECT WILL REJECT SUCH DEFECTS.
4. EDGES ADJOINING OTHER MATERIALS OR COLORS SHALL BE SHARP AND CLEAN, WITHOUT OVERLAPPING.
5. BEFORE PAINTING WORK IS TO BEGIN, ARRANGEMENTS SHALL BE MADE FOR PROPER VENTILATION.
6. PROPER PRECAUTIONS SHALL BE TAKEN TO PROTECT ALL AREAS FROM PAINT DRIPS, SPLASHES, OVERLAY, ETC. ALL GLAZING SHALL BE MASKED ON BOTH SIDES.
7. PROTECT FROM HIGH HUMIDITY AND MOISTURE FOR 10-14 DAYS TO ENSURE PROPER CURE.
8. PROVIDE A SAMPLE, MINIMUM 8  $\frac{1}{2}$ " X 11" IN SIZE OF EACH PAINT TYPE FOR ARCHITECT'S REVIEW PRIOR TO COMMENCEMENT OF WORK.
9. BEFORE PAINTING WORK IS TO BEGIN, THE FOLLOWING ENVIRONMENTAL CONDITIONS SHALL BE PROVIDED:
  - A. MAINTAIN INTERIOR OF BUILDING SPACE WITH TEMPERATURE OF 60 DEGREES F. MIN. AND 85 DEGREES F. MAXIMUM AND A RELATIVE HUMIDITY OF LESS THAN 70% FOR THREE DAYS PRIOR TO START OF PAINTING WORK, DURING THE PAINTING PROCESS AND AFTER PAINTING WORK HAS BEEN APPLIED.
  - B. LIGHTING IN ALL SPACES SHALL BE FULL FINAL ILLUMINATION LEVEL. CONTRACTOR SHALL PROVIDE TEMPORARY LIGHTING WHERE REQUIRED.
- 10 WHERE PAINTS ARE SPECIFIED, CONTRACTOR TO USE THE METHODS AND MATERIALS AS SPECIFIED BY THE MANUFACTURER.
11. COLORS AND FINISHES AS INDICATED IN FINISH SCHEDULE.
12. UPON SUBSTANTIAL COMPLETION OF THE CONTRACT OR WHEN SO DIRECTED BY THE ARCHITECT, THE CONTRACTOR SHALL RETOUCH ALL PORTIONS OF THE WORK HEREIN SPECIFIED TO BE PAINTED OR FINISHED WHICH MAY HAVE BEEN MARRED OR DAMAGED.

**DIVISION 10**

**COMMERCIAL TOILET ACCESSORIES (102813):**

**GRAB BARS:**

1. SHALL BE ADA COMPLIANT TYPE-304 STAINLESS STEEL WITH PEENED GRIPPING SURFACE.
2. SHALL HAVE 18-GUAGE WALL THICKNESS AND 1  $\frac{1}{2}$ " - 2" OUTSIDE DIAMETER.
3. CLEARANCE BETWEEN GRAB BAR AND WALL SHALL BE 1  $\frac{1}{2}$ ".
4. CONCEALED MOUNTING FLANGES SHALL BE 22-GUAGE STAINLESS STEEL, 3  $\frac{1}{4}$ " DIAMETER, AND SHALL SNAP OVER MOUNTING FLANGES TO CONCEAL MOUNTING SCREWS AND/OR FASTENERS.
5. END OF GRAB BAR SHALL PASS THROUGH CONCEALED MOUNTING FLANGES AND BE HELIARC. WELDED TO FORM ONE STRUCTURAL UNIT.
6. GRAB BAR SHALL COMPLY WITH ACCESSIBLE DESIGN (INCLUDING ADAAG IN THE U.S.A.) FOR STRUCTURAL STRENGTH.
7. G.C. TO INSTALL IN-WALL BLOCKING FOR GRABBARS.

**TOILET TISSUE DISPENSER:**

1. ADA COMPLIANT SURFACE MOUNTED MULTI-ROLL TOILET TISSUE DISPENSER SHALL BE TYPE-304 STAINLESS STEEL WITH ALL-WELDED CONSTRUCTION, INCLUDING DISPENSING MECHANISM, INNER HOUSING AND CAM.
2. ALL EXPOSED SURFACES SHALL HAVE SATIN FINISH.
3. FRONT OF TISSUE DISPENSER SHALL BE DRAWN, ONE PIECE, SEAMLESS CONSTRUCTION. DOOR SHALL BE SECURED TO CABINET WITH TWO RIVETS AND EQUIPPED WITH TUMBLER LOCK KEYS LIKE OTHER WASHROOM ACCESSORIES.
4. UNIT SHALL DISPENSE TWO STANDARD-CORE TOILET TISSUE ROLLS UP TO 9" DIAMETER.
5. UNIT SHALL BE EQUIPPED WITH TWO THEFT-RESISTANT, HEAVY-DUTY, ONE PIECE, MOLDED ABS SPINDLES.

**SOAP DISPENSER:**

1. ADA COMPLIANT WALL MOUNTED SOAP DISPENSER, SHALL BE SATIN FINISH STAINLESS STEEL WITH CHROME-PLATED BRASS PUMP VALVE.
2. UNIT SHALL BE ABLE TO DISPENSE .027 OZ OF LIQUID OR FOAM SOAP.

**PAPER TOWEL DISPENSER:**

1. SHALL BE EASY PULL DOWN TOWEL DISPENSER
2. SHALL BE WALL MOUNTED SO THAT DISPENSING NOZZLE IS ADA COMPLIANT FOR REACH RANGES.
3. SHALL BE WASTE MINIMIZING W/ ONE-AT-A-TIME TOWEL DISPENSING.
4. SHALL BE EASY TO REFILL, SELF-THREADING UNIT DESIGN.

**FIRE PROTECTION SPECIALTIES (104400):**

1. PROVIDE FIRE EXTINGUISHERS AND FIRE EXTINGUISHER CABINETS AS REQUIRED BY BUILDING INSPECTOR. 1 FOR EVERY 3,000 SF AND NO MORE THAN 75' WALKING DISTANCE. PROVIDE TACTILE SIGNAGE.
2. FIRE EXTINGUISHERS SHALL MEET THE FOLLOWING CRITERIA:
  - A. EXTINGUISHERS SHALL BE MULTI-PURPOSE (MF) TYPE DRY CHEMICAL A B C
  - B. PROVIDE 5-10 POUND ADA COMPLIANT UNITS AS REQ'D BY FIRE MARSHALL.
3. PROVIDE FIRE EXTINGUISHER CABINETS MEETING THE FOLLOWING CRITERIA:
  - A. THE UNIT SHALL BE ALUMINIUM WITH A FLAT TRIM FRAME.
  - C. PROVIDE AN ADA COMPLIANT UNIT MOUNTED TO ADA STANDARDS.
  - D. UNIT SHALL BE AS MANUFACTURED BY LARSEN MFG. OR EQUIVLANENT
4. INSTALL IN STRICT ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS USING ONLY THOSE COMPONENTS SUPPLIED BY OR APPROVED BY THE MANUFACTURER.
5. PROVIDE EXTINGUISHERS AND CABINETS BY THE SAME MANUFACTURER. UNITS ARE TO BE AS MANUFACTURED BY LARSEN'S MFG. CO. OR APPROVED EQUAL.

**DIVISIONS 11, 13 AND 14**

**NOT APPLICABLE**

**DIVISION 12: FURNISHINGS**

**COUNTERTOPS (123600):**

**COUNTERTOP SURFACE:**

1. SURFACE SHALL BE ADA COMPLIANT COMMERCIAL GRADE HIGH-PRESSURE PLASTIC LAMINATE.
2. PROVIDE SAMPLES FOR REVIEW BY THE ARCHITECT PRIOR TO INSTALL. SEE DIVISION 1 FOR MORE INFORMATION.

**DIVISION 22: PLUMBING**

**COMMERCIAL PLUMBING FIXTURES (224200):**

**WATER CLOSET:**

1. SHALL BE AN ADA COMPLIANT VITREOUS CHINA ELONGATED FLOOR MOUNTED.
2. HIGH EFFICIENCY, LOW CONSUMPTION WATER CLOSET. SEE PLUMBING ENGINEERING DRAWINGS FOR GPF.
3. BOWL TO BE FULLY GLAZED.
4. ADJUSTABLE SANITARY FLUSH.
5. MATERIALS SHALL BE CHLORAMINE RESISTANT.
6. TOILET FLUSHERS ON WIDE SIDE OF WATER CLOSETS, TYP.

**LAVATORY SINKS:**

1. SHALL BE ADA COMPLIANT VITREOUS CHINA WALL MOUNTED OVAL BASIN W/ OVERFLOW.
2. ALL EXPOSED PIPES (PLUMBING & DRAIN) TO BE COVERED AND/OR INSULATED.
3. G.C. TO COORDINATE FAUCET HOLE CUTOUTS.

**LAVATORY FAUCET:**

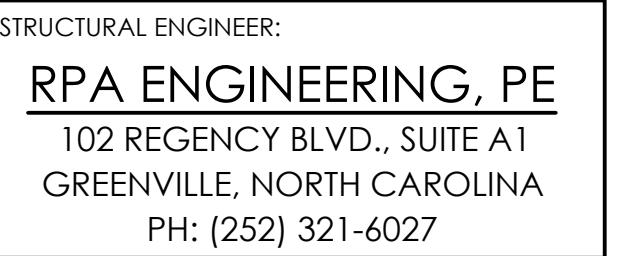
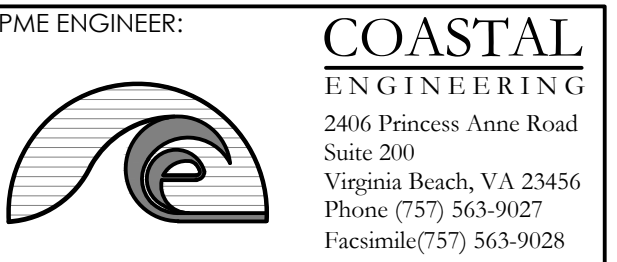
1. ADA COMPLIANT LAVATORY OR DECK MOUNTED FAUCET SHALL BE CHROME PLATED SOLID CAST BRASS BODY WITH CENTER SHANK MOUNTING, 0.5 GPM AERATOR AND FLEXIBLE STAINLESS STEEL SUPPLY HOSE.

**KITCHENETTE SINK:**

1. SHALL BE 20-GA. (MIN.) STAINLESS STEEL DROP-IN SINGLE BASIN WITH THREE FAUCET HOLES.

**KITCHENETTE FAUCET:**

1. ADA COMPLIANT LEVER HANDLE HIGH GOOSE-NECK KITCHEN FAUCET.
2. LEVER HANDLES SHALL HAVE WIDESPREAD INSTALLATION - 3 HOLE FAUCET WITH 8" CENTERS.



PROJECT NAME:  
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North Boyd  
Beaufort County  
North Carolina

REVISIONS:	DATE:
ISSUED FOR BID	3 / 30 / 26

DRAWING NAME:  
**SPECIFICATIONS**

**ISSUED FOR BID**

DRAWN BY: CN

DATE:

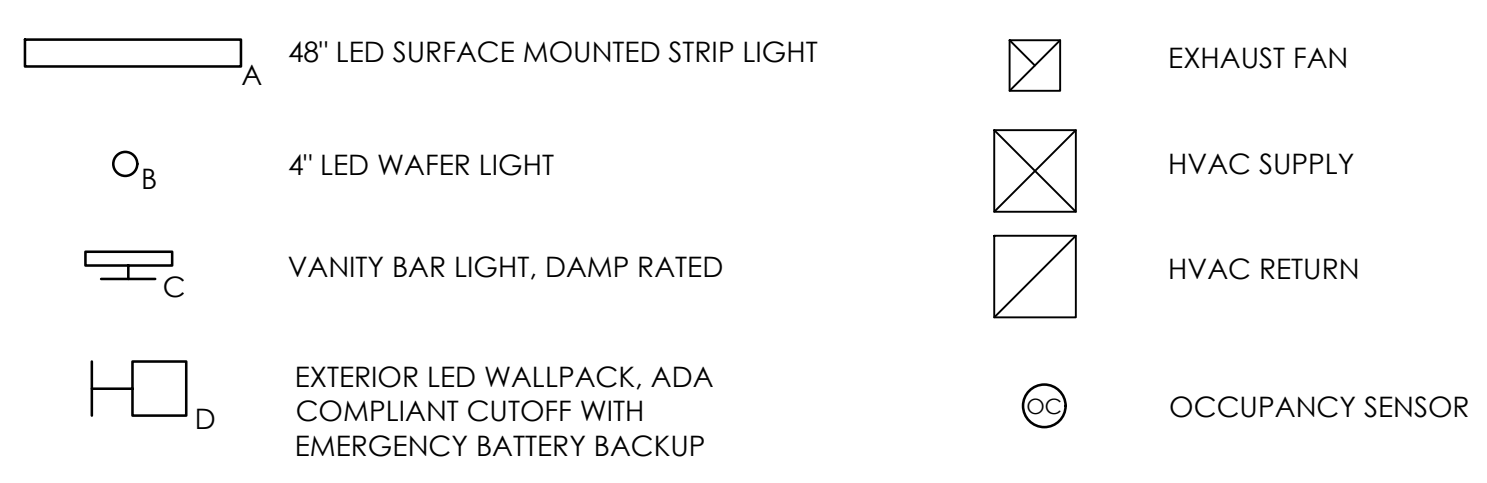
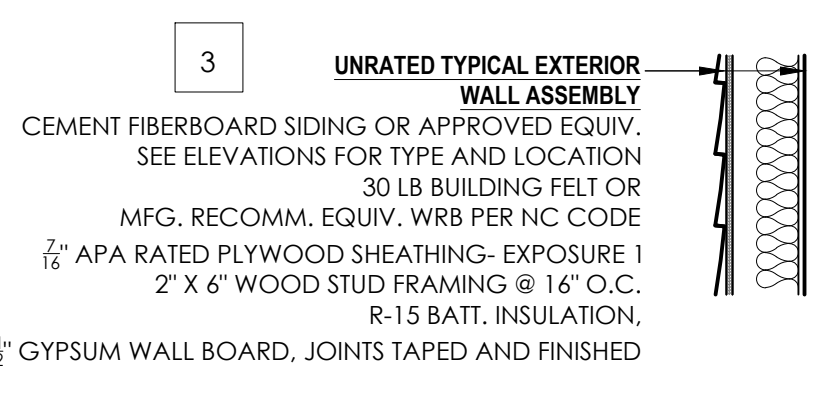
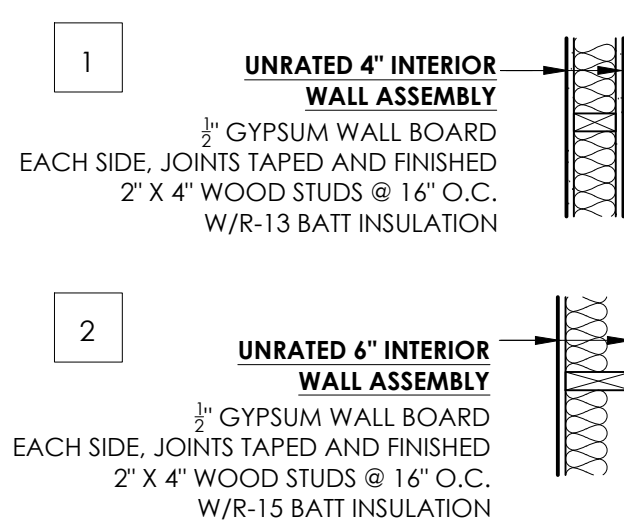
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STAMP:  
3 / 30 / 26

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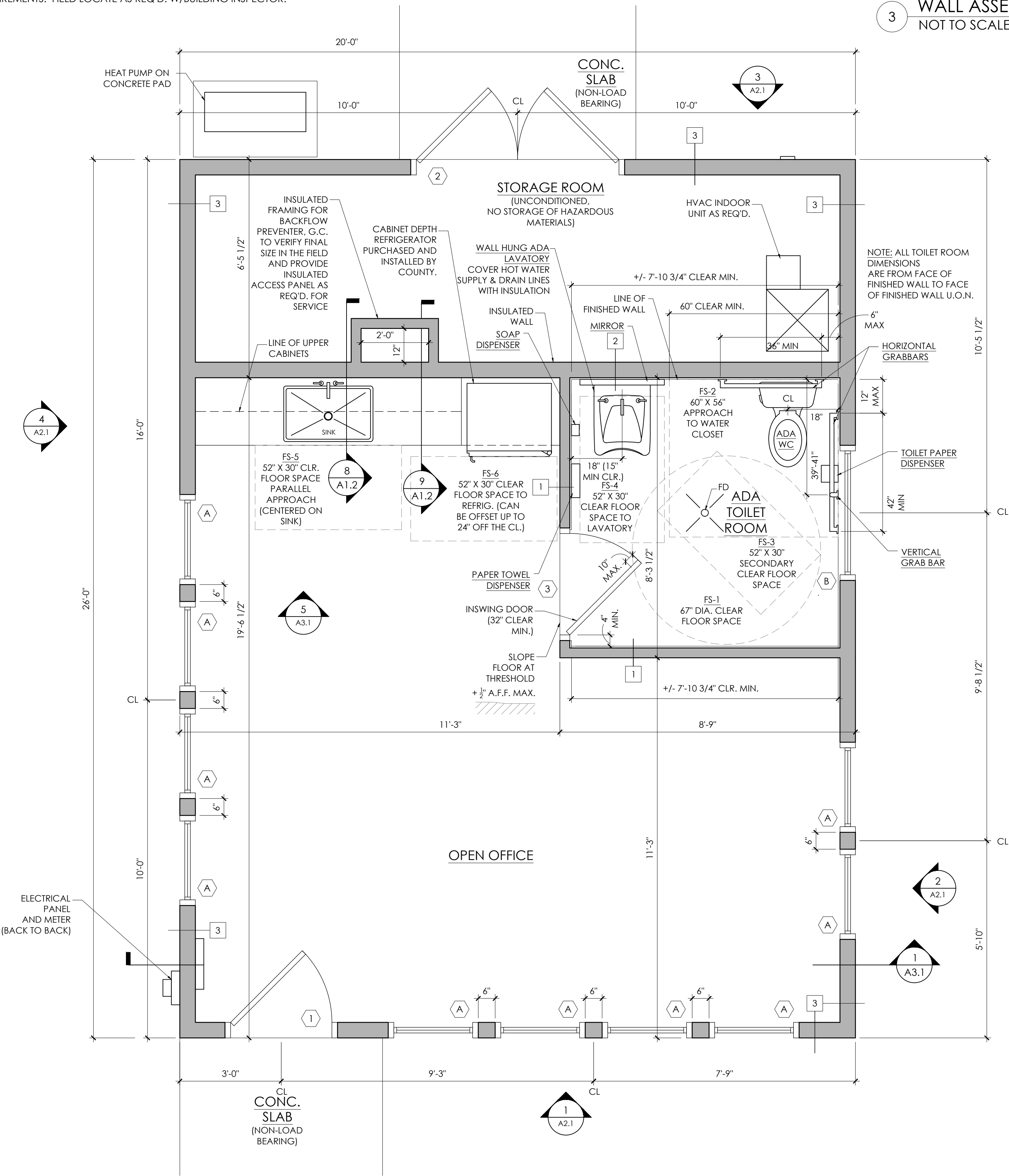
SHEET:  
**T1.3**

- GENERAL NOTES:**
1. INSPECT AND VERIFY ALL DIMENSIONS ON THE PROJECT AND SITE AS MAY RELATE TO THE EXTENT OF CONSTRUCTION AND/OR DEMOLITION.
  2. THE CONTRACTOR/OWNER SHALL OBTAIN ALL REQUIRED PERMITS AND INSPECTIONS AS MAY BE REQUIRED TO PROCEED WITH DEMOLITION AND CONSTRUCTION.
  3. ALL WORK PERFORMED SHALL MEET ALL TOWN, COUNTY AND STATE CODES.
  4. DO NOT SCALE DRAWINGS.
  5. VERIFY ALL DOOR/WINDOW ROUGH OPENINGS WITH DOOR MFG. SPEC.
  6. CONTRACTOR TO USE TEMPERED GLASS IN ANY WINDOW OR DOOR THAT IS WITHIN 18" OF THE FINISHED FLOOR.
  7. CONTRACTOR TO COORDINATE ELECTRICAL, PLUMBING AND MECHANICAL WORK. ALL SUCH WORK MUST CONFORM TO NORTH CAROLINA CODES.
  8. CONTRACTOR TO CONFIRM PLAN DIMENSIONS PRIOR TO CONSTRUCTION WITH EXISTING SITE CONSTRAINTS. CONTRACTOR IS RESPONSIBLE FOR INFORMING THE ARCHITECT OF ANY PROBLEMS PRIOR TO CONSTRUCTION.
  9. THE CONTRACTOR SHALL PROVIDE THE OWNER WITH ALL MANUALS AND MAINTENANCE INFORMATION BEFORE THE FINAL PAYMENT. THE CONTRACTOR SHALL WARRANT THE WORK FOR THE PERIOD OF ONE YEAR.
  10. SEE A2.1 FOR DOOR AND WINDOW SCHEDULES.
  11. CONTRACTOR TO FIELD LOCATE 10LB SEMI-RECESSED FIRE EXTINGUISHER CABINETS W/FIRE MARSHALL PRIOR TO DRYWALLING.
  12. CONTRACTOR TO PROVIDE ADA APPROVED TACTILE SIGNAGE AT ALL EXITS AND PERMANENT SPACES TO MEET ANSI AND 2018 NCBC REQUIREMENTS. FIELD LOCATE AS REQ'D. W/BUILDING INSPECTOR.

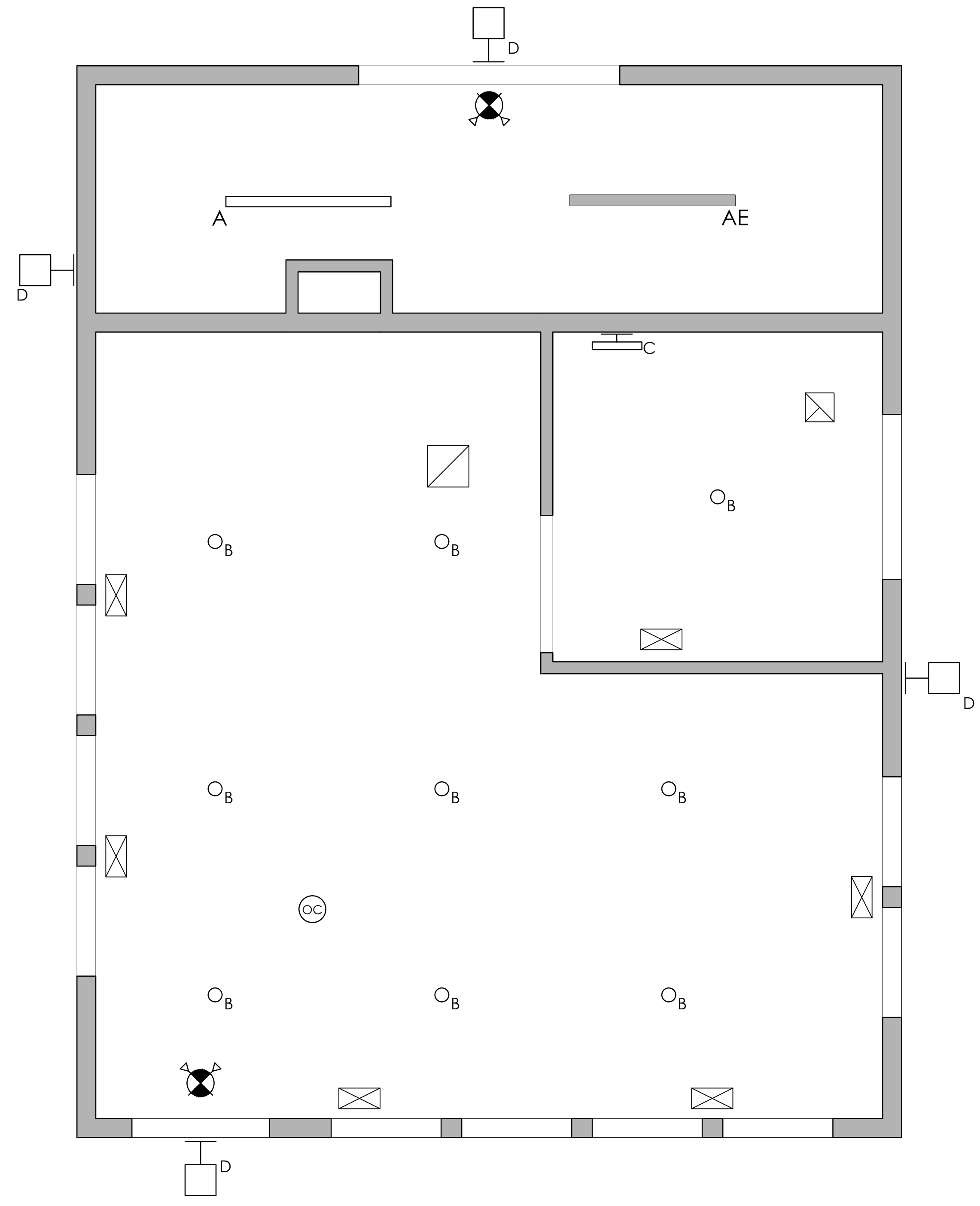


3 WALL ASSEMBLIES  
NOT TO SCALE

4 RCP LEGEND  
NOT TO SCALE



1 BUILDING FLOOR PLAN  
SCALE: 1/2" = 1'-0"



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

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PROJECT NAME:  
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North Boyd  
Beaufort County  
North Carolina

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DATE:

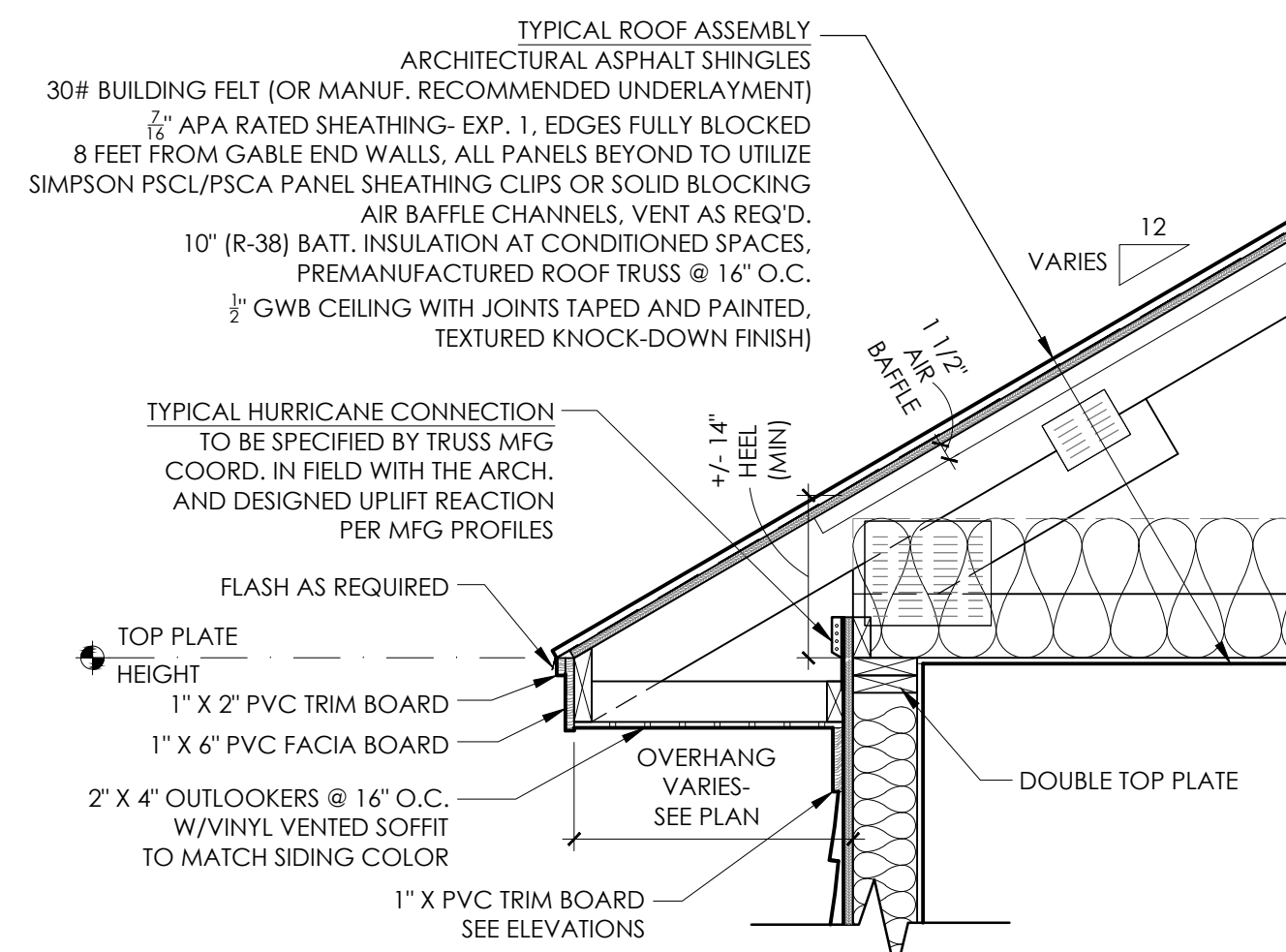
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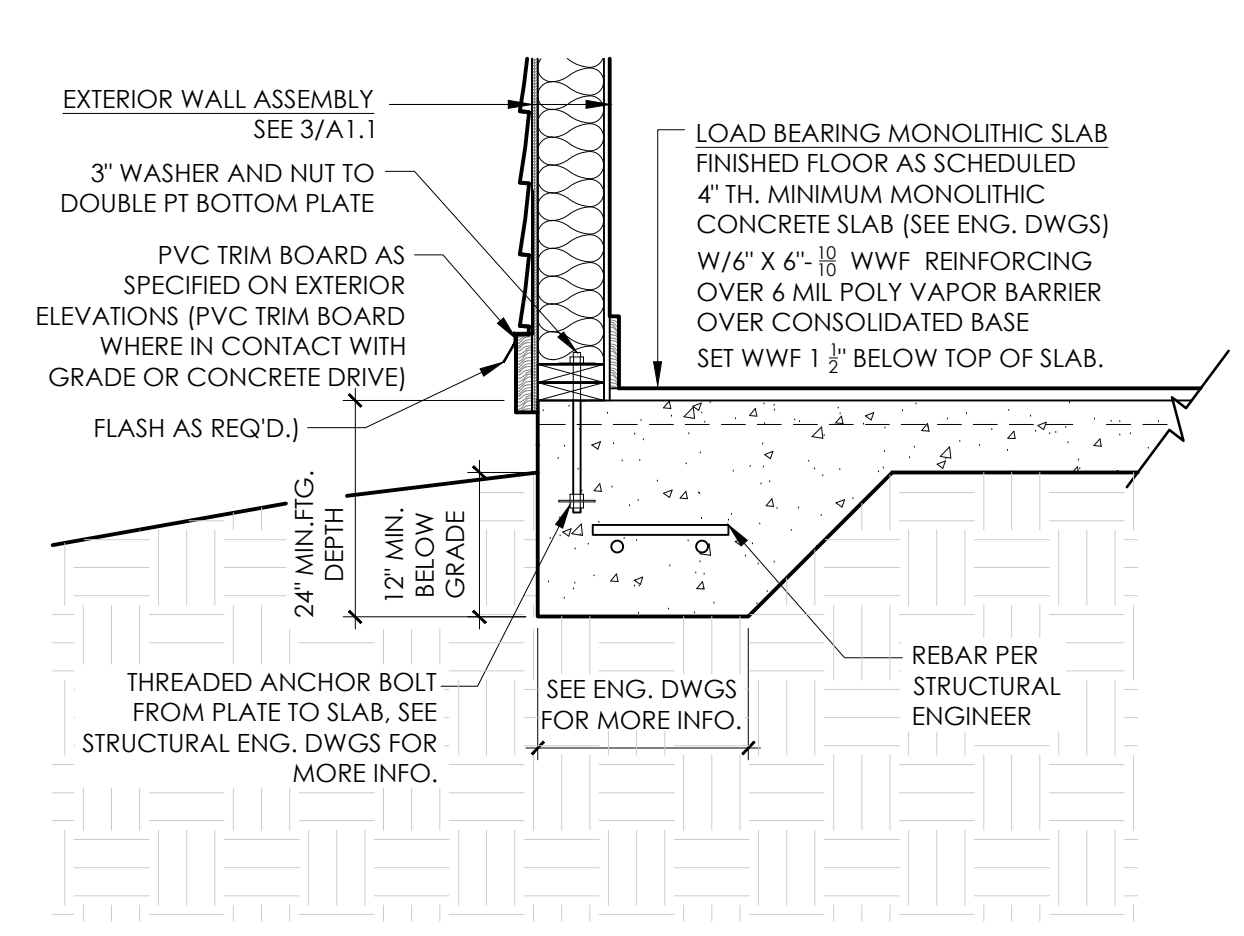
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SHEET:  
**A1.1**

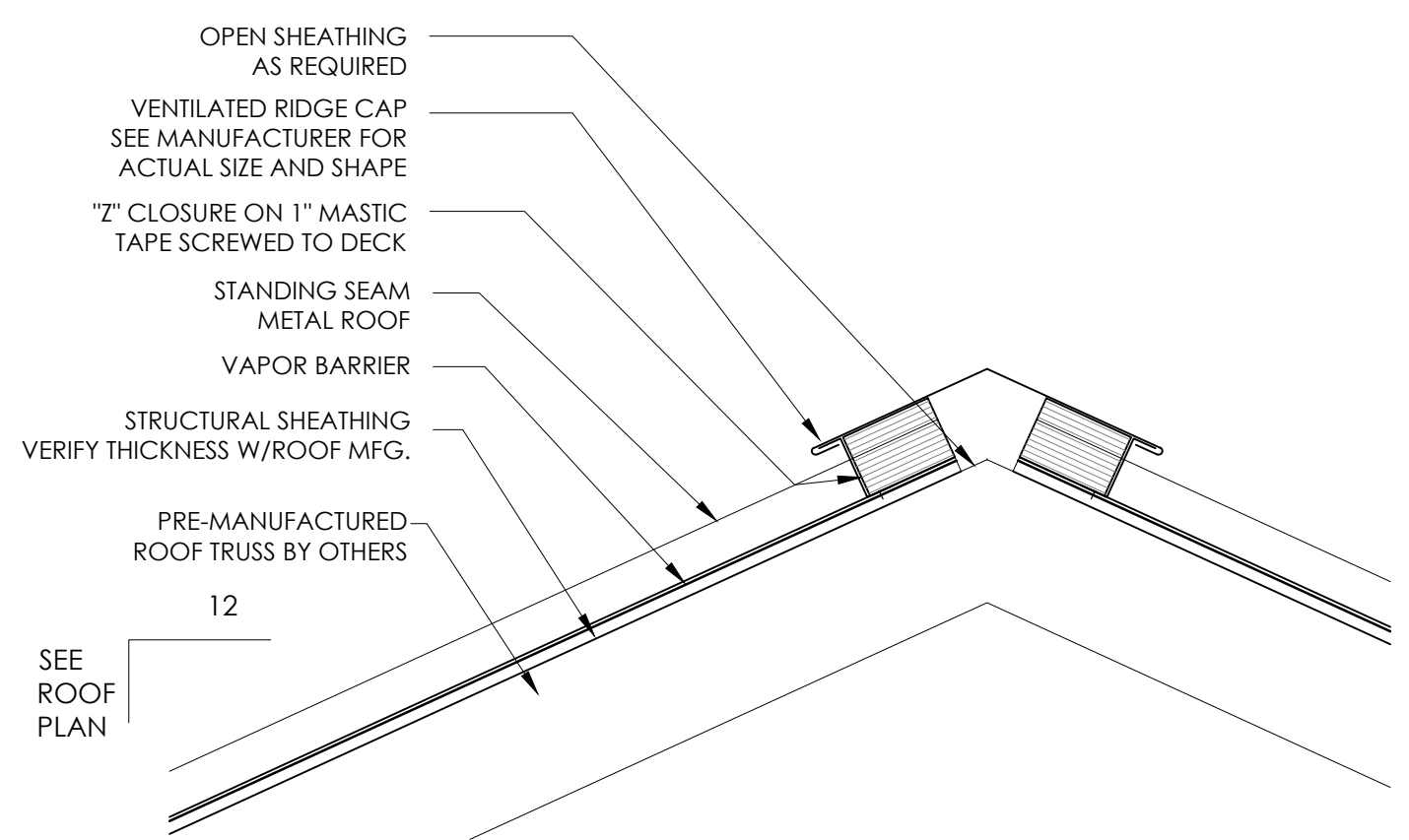
**TRUSSED ROOF NOTE:**  
 TRUSS ROOF SHOP DRAWINGS AND OTHER ITEMS SHALL BE SUBMITTED TO THE STRUCTURAL ENGINEER FOR REVIEW PRIOR TO FABRICATION. ALL SHOP DRAWINGS SHALL BE REVIEWED BY THE GENERAL CONTRACTOR BEFORE SUBMITTAL. THE ENGINEER'S REVIEW IS TO BE FOR CONFORMANCE WITH THE DESIGN CONCEPT AND GENERAL COMPLIANCE WITH THE RELEVANT CONTRACT DOCUMENTS. THE ENGINEER'S REVIEW DOES NOT RELIEVE THE CONTRACTOR OF THE SOLE RESPONSIBILITY TO REVIEW, CHECK, AND COORDINATE THE SHOP DRAWINGS PRIOR TO SUBMISSION. THE CONTRACTOR REMAINS SOLELY RESPONSIBLE FOR ERRORS AND OMISSIONS ASSOCIATED WITH THE PREPARATION OF SHOP DRAWINGS AS THEY PERTAIN TO MEMBER SIZES, DETAILS, DIMENSIONS, ETC.



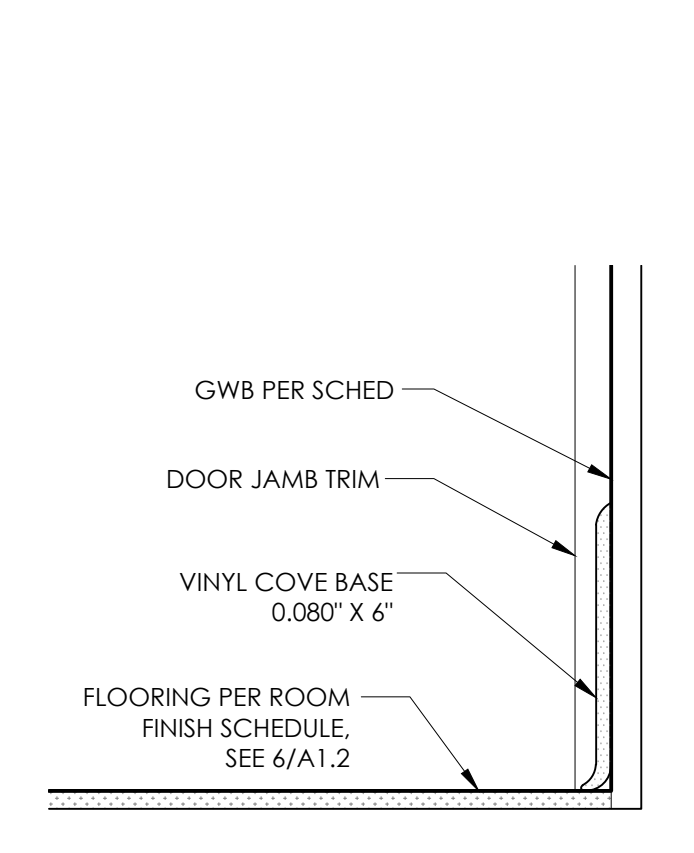
2 TYPICAL EAVE DETAIL  
 SCALE: 3/4" = 1'-0"



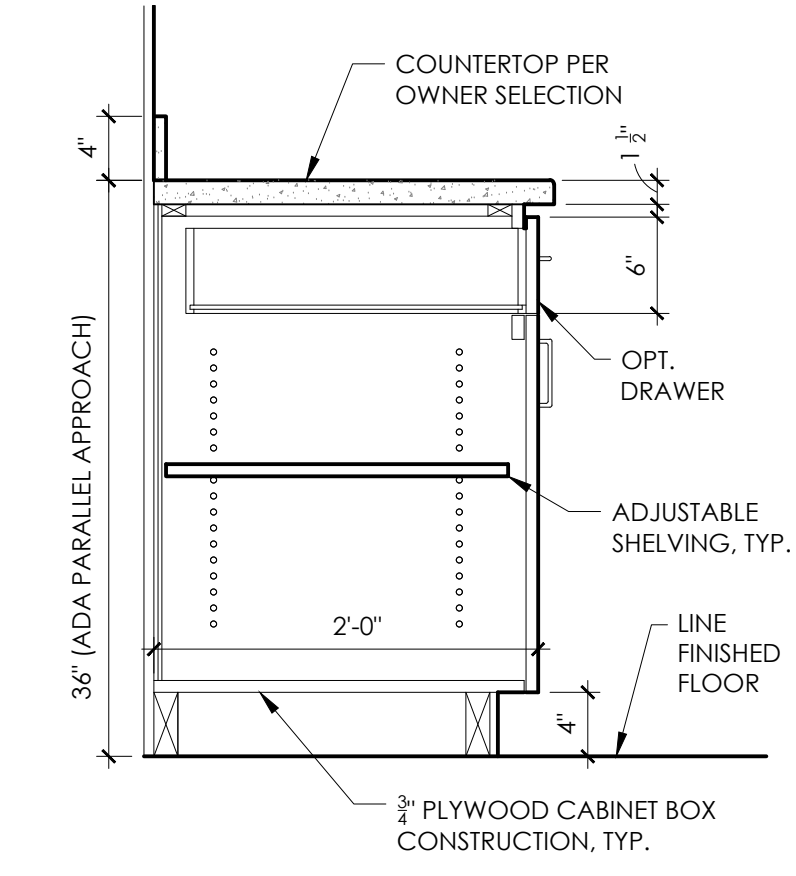
3 TYPICAL FOUNDATION DETAIL  
 SCALE: 3/4" = 1'-0"



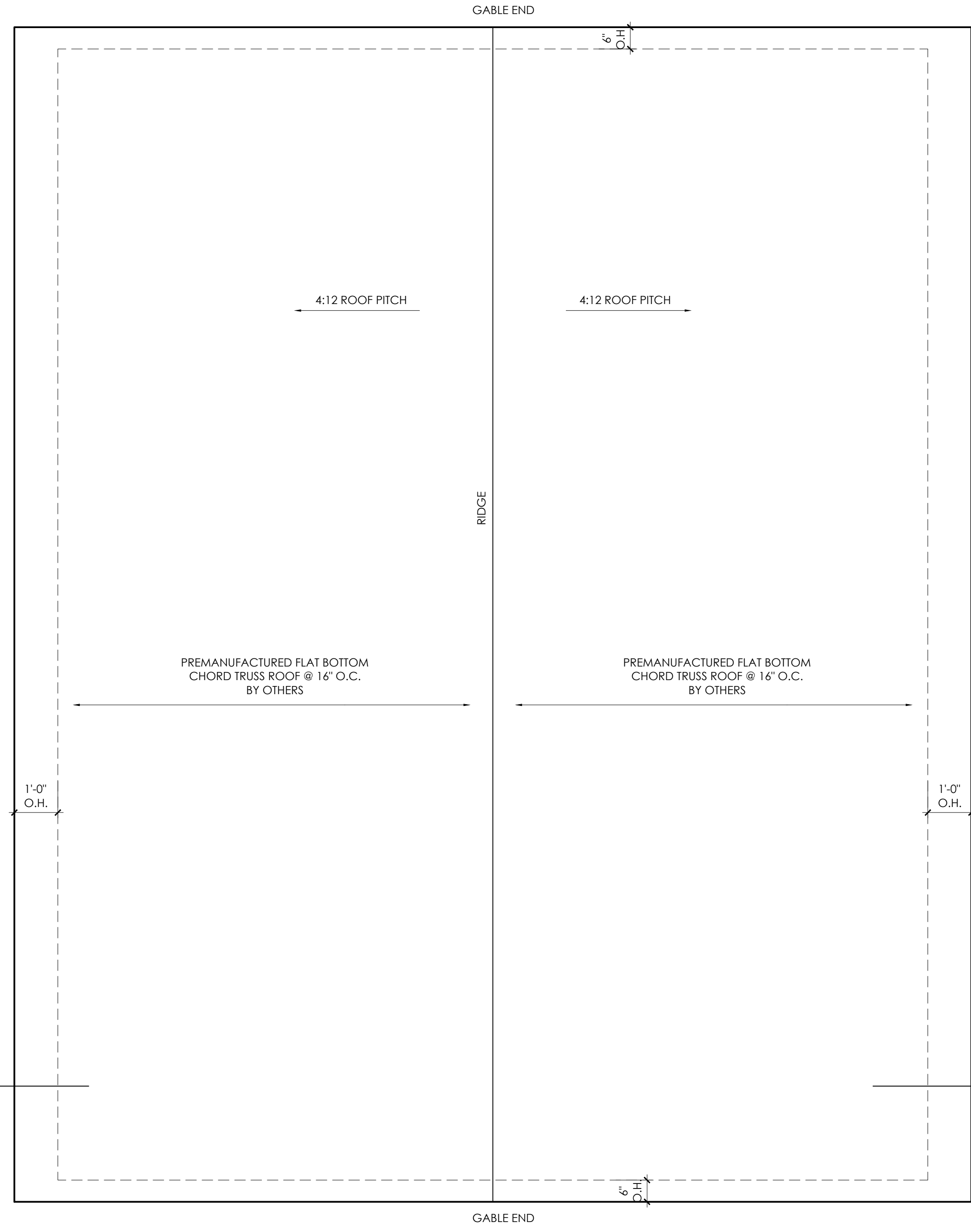
4 STANDING SEAM METAL ROOF RIDGE DETAIL, TYP.  
 SCALE: 3/4" = 1'-0"



7 VINYL WALL BASE DETAIL  
 NOT TO SCALE



9 BASE CABINET DETAIL  
 NOT TO SCALE



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

**TOILET ROOM ACCESSORY SCHEDULE**

DESCRIPTION	MANUFACTURER	MODEL #	NOTES
42" LONG, 1 1/2" TH. ADA PEENED GRABBAR	BRADLEY CORP.	812-001-42	SEE 1/A1.1 FOR LOCATIONS- BLOCKING IN WALL REQ'D.
36" LONG, 1 1/2" TH. ADA PEENED GRABBAR	BRADLEY CORP.	812-001-36	SEE 1/A1.1 FOR LOCATIONS- BLOCKING IN WALL REQ'D.
18" LONG, 1 1/2" TH. ADA PEENED GRABBAR	BRADLEY CORP.	812-001-24	SEE 1/A1.1 FOR LOCATIONS- BLOCKING IN WALL REQ'D.
MULTI-ROLL TOILET PAPER DISPENSER (SURFACE MTD)	BRADLEY CORP.	5402-00	SEE 1/A1.1 FOR LOCATIONS AND T1.1 FOR MOUNTING HTS.
MIRROR (SURFACE MTD)	-	-	SEE 1/A1.1 FOR LOCATIONS AND T1.1 FOR MOUNTING HTS.
WALL MOUNTED SOAP DISPENSER	BRADLEY CORP.	6562	SEE 1/A1.1 FOR LOCATIONS AND T1.1 FOR MOUNTING HTS.
PAPER TOWEL DISPENSER & WASTE RECEPTACLE	BRADLEY CORP.	2291-11	SEE 1/A1.1 FOR LOCATIONS AND T1.1 FOR MOUNTING HTS.

**NOTES:**  
 1. ACCESSORY MANUFACTURER LISTED IS FOR REFERENCE ONLY. G.C. MAY SUBMIT EQUIVALENT MFG./SPECS. FOR REVIEW BY THE ARCHITECT IN THE FIELD  
 2. THE SCHEDULE ABOVE IS NOT COMPREHENSIVE AND ADDITIONAL PARTS, PIECES AND ACCESSORIES MAY BE REQUIRED FOR THE G.C. TO COMPLETE THE BUILDING.

NOTES:  
 1. ACCESSORY MANUFACTURER LISTED IS FOR REFERENCE ONLY. G.C. MAY SUBMIT EQUIVALENT MFG./SPECS. FOR REVIEW BY THE ARCHITECT IN THE FIELD  
 2. THE SCHEDULE ABOVE IS NOT COMPREHENSIVE AND ADDITIONAL PARTS, PIECES AND ACCESSORIES MAY BE REQUIRED FOR THE G.C. TO COMPLETE THE BUILDING.

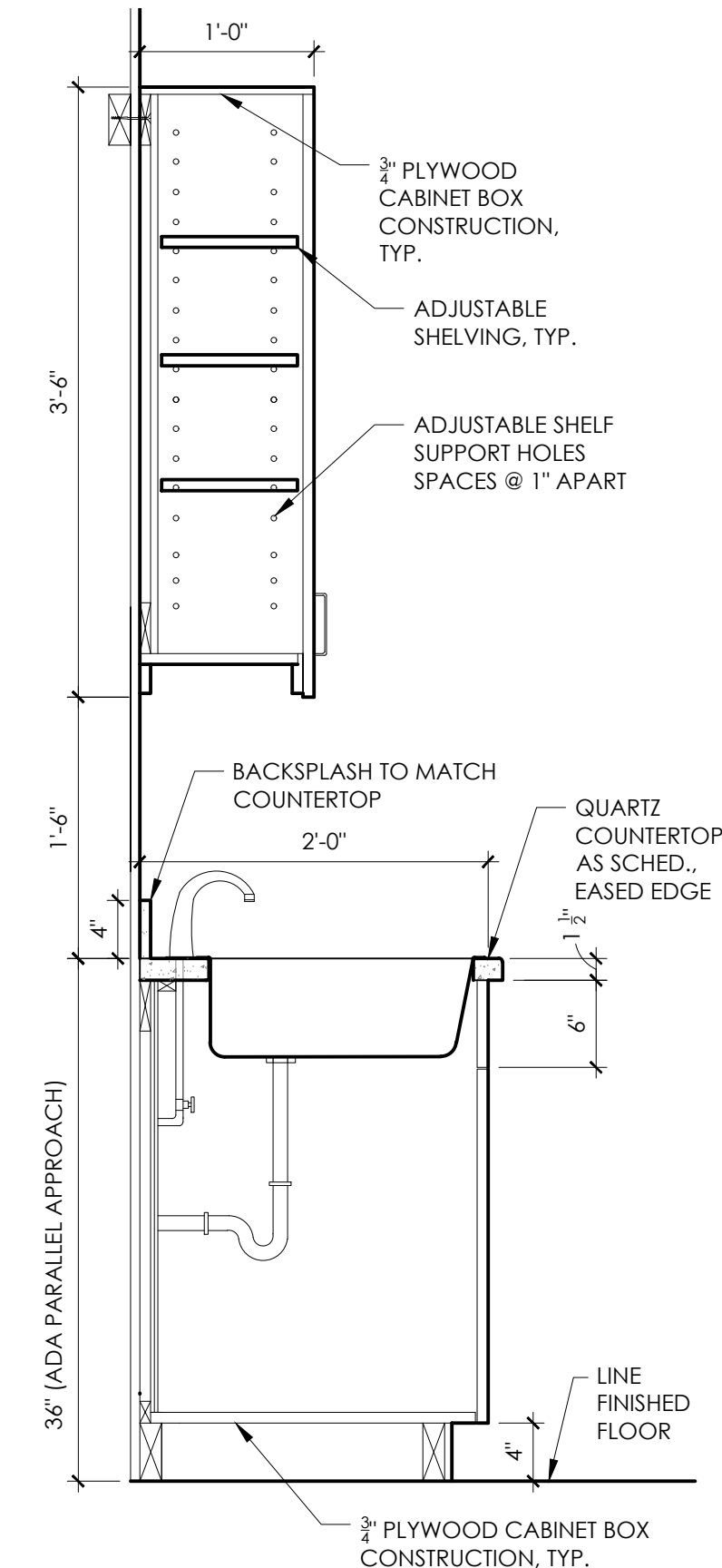
5 TOILET ROOM ACCESSORY SCHEDULE  
 NOT TO SCALE

**ROOM FINISH SCHEDULE**

ROOM NAME	FLOOR	FLOOR FINISH	BASE	WALL	FINISH	CEILING	FINISH	NOTES
TOILET ROOM #1	CONCRETE	SEALED	4" VINYL BASE	SMOOTH GWB	PTD	SMOOTH GWB	EPOXY PAINT	SCUFF RESISTANT FINISH
OPEN OFFICE	CONCRETE	SEALED	4" VINYL BASE	SMOOTH GWB	PTD	SMOOTH GWB	EPOXY PAINT	SCUFF RESISTANT FINISH
STORAGE ROOM	CONCRETE	SEALED	4" VINYL BASE	SMOOTH GWB	PTD	SMOOTH GWB	EPOXY PAINT	SCUFF RESISTANT FINISH

**NOTES:**  
 1. USE MOISTURE RESISTANT GWB AT TOILET ROOM AND WET LOCATIONS.  
 2. ARCHITECT TO SELECT FINAL COLORS IN THE FIELD  
 3. PAINT SHALL BE EPOXY PAINT WITH A SATIN SHEEN.

6 ROOM FINISH SCHEDULE  
 NOT TO SCALE



8 SINK CABINET DETAIL  
 NOT TO SCALE

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SCALE: **-**

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SHEET:  
**A1.2**

PROJECT NAME:  
**ATTENDANT BUILDING**  
 North Boyd  
 Beaufort County  
 North Carolina

REVISIONS:	DATE:
ISSUED FOR BID	3 / 30 / 26

DRAWING NAME:  
**EXTERIOR ELEVATIONS**

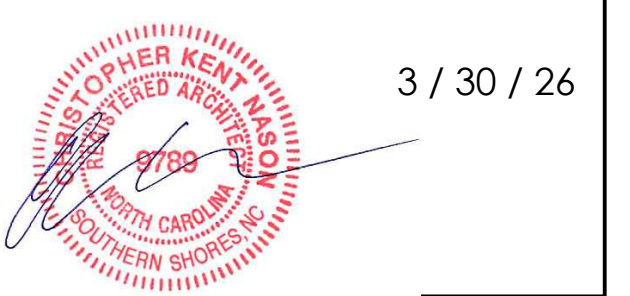
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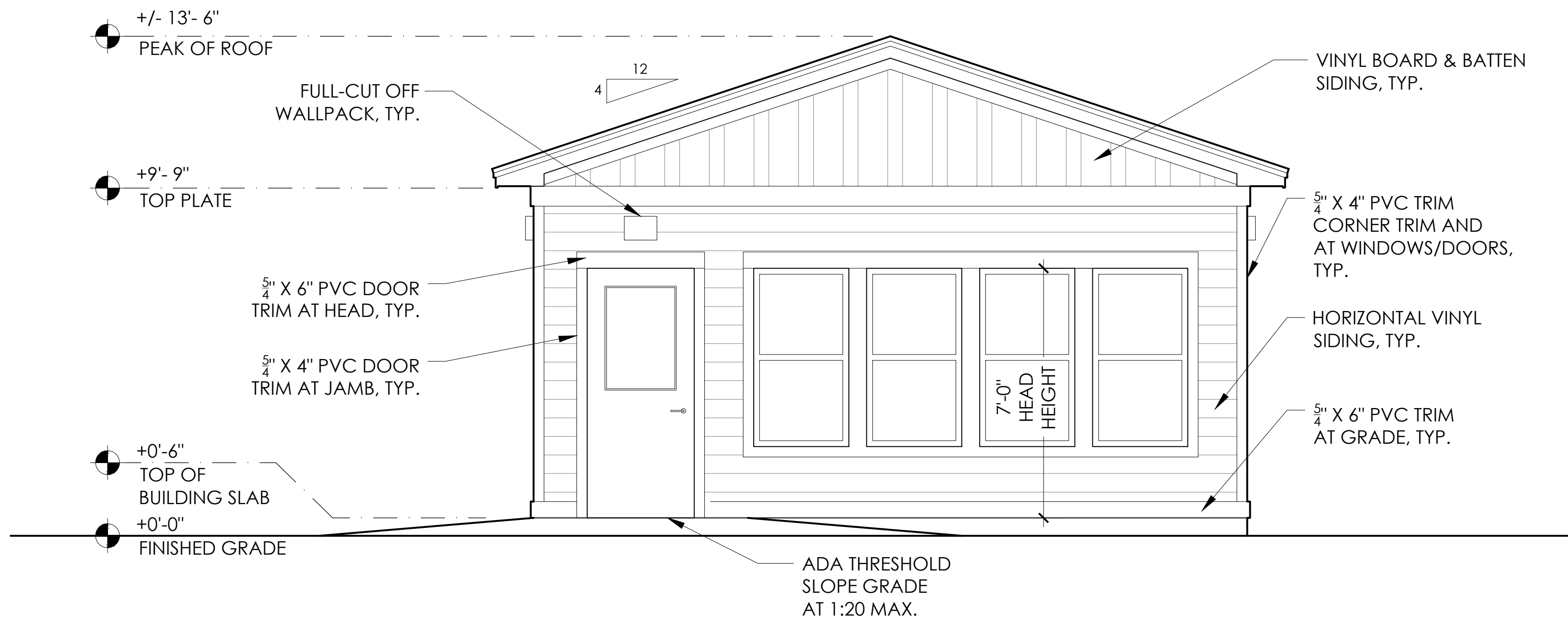


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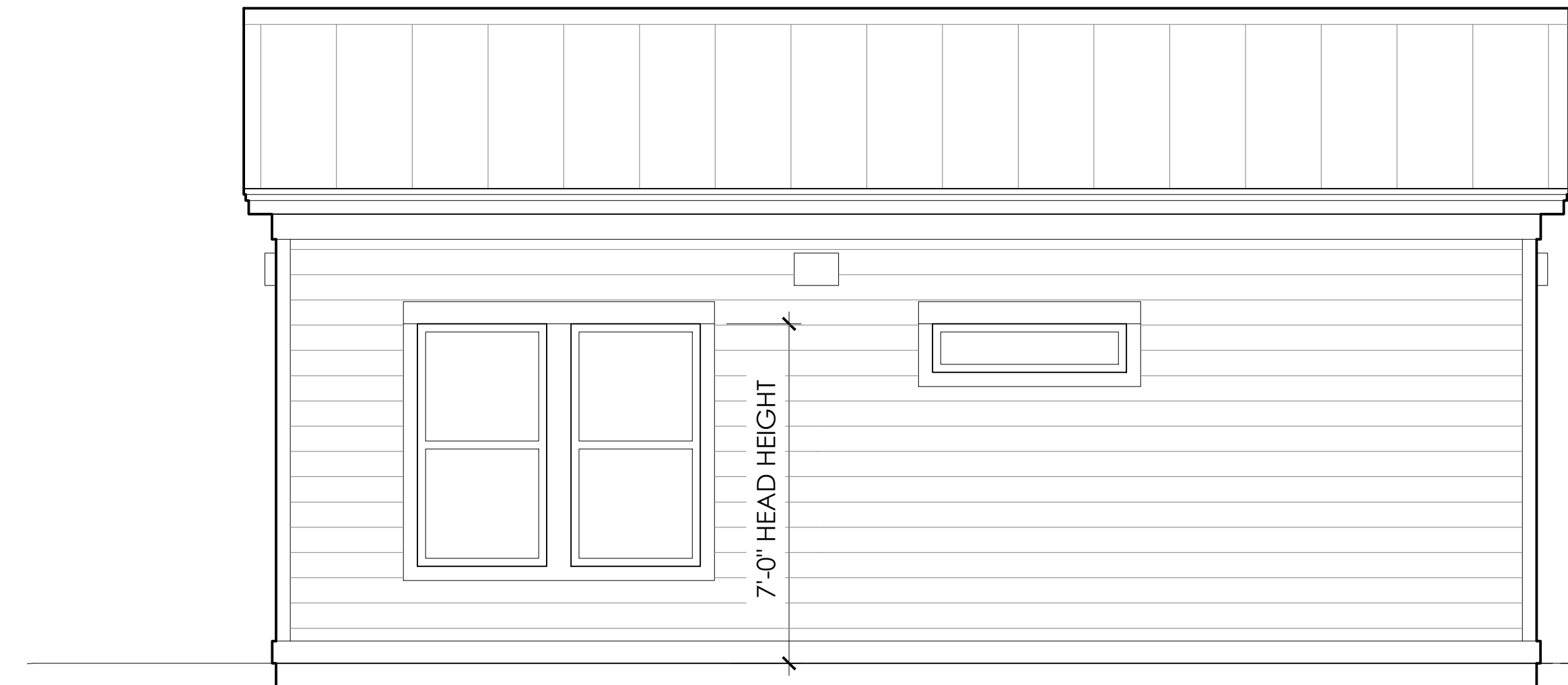
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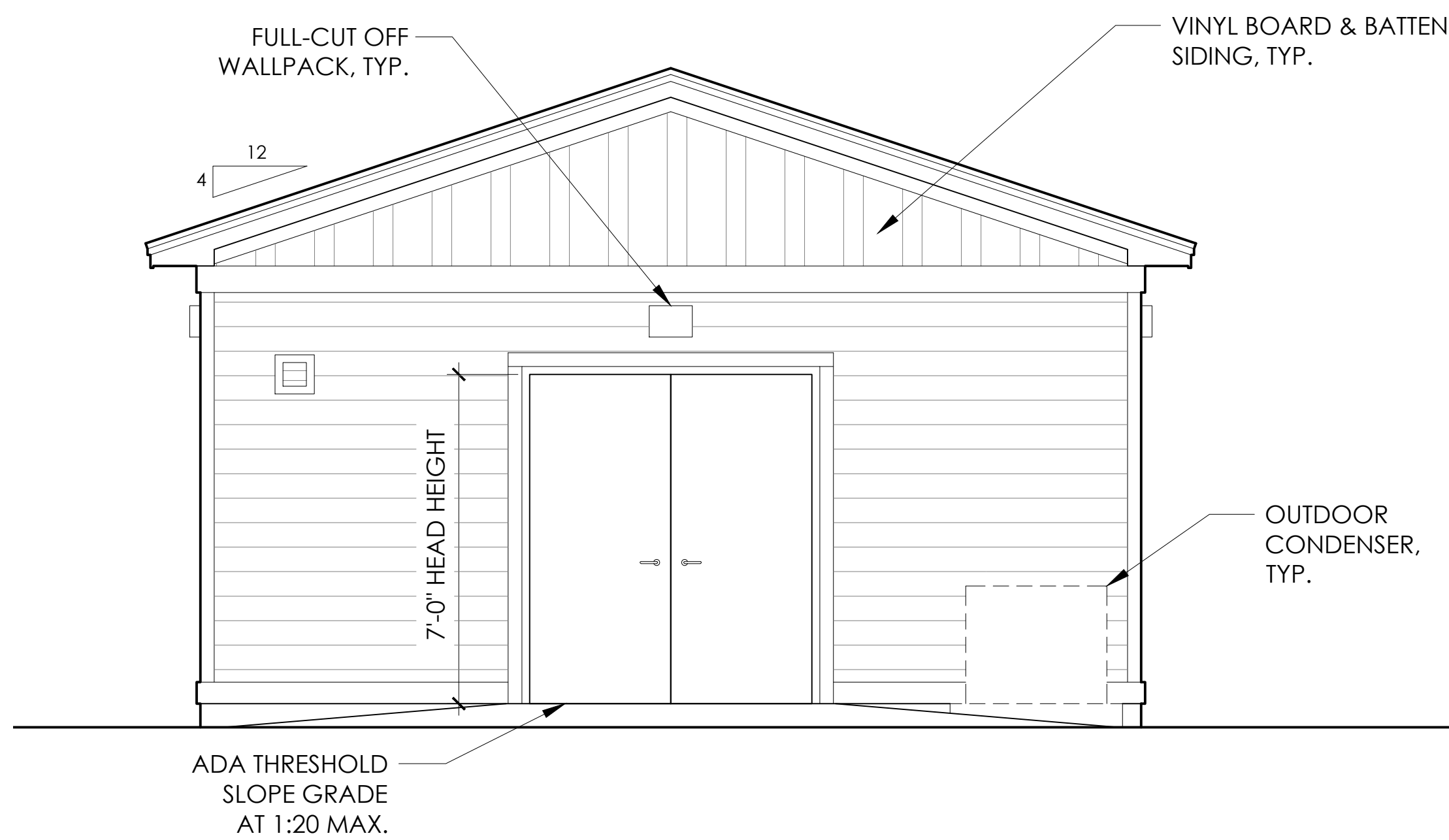
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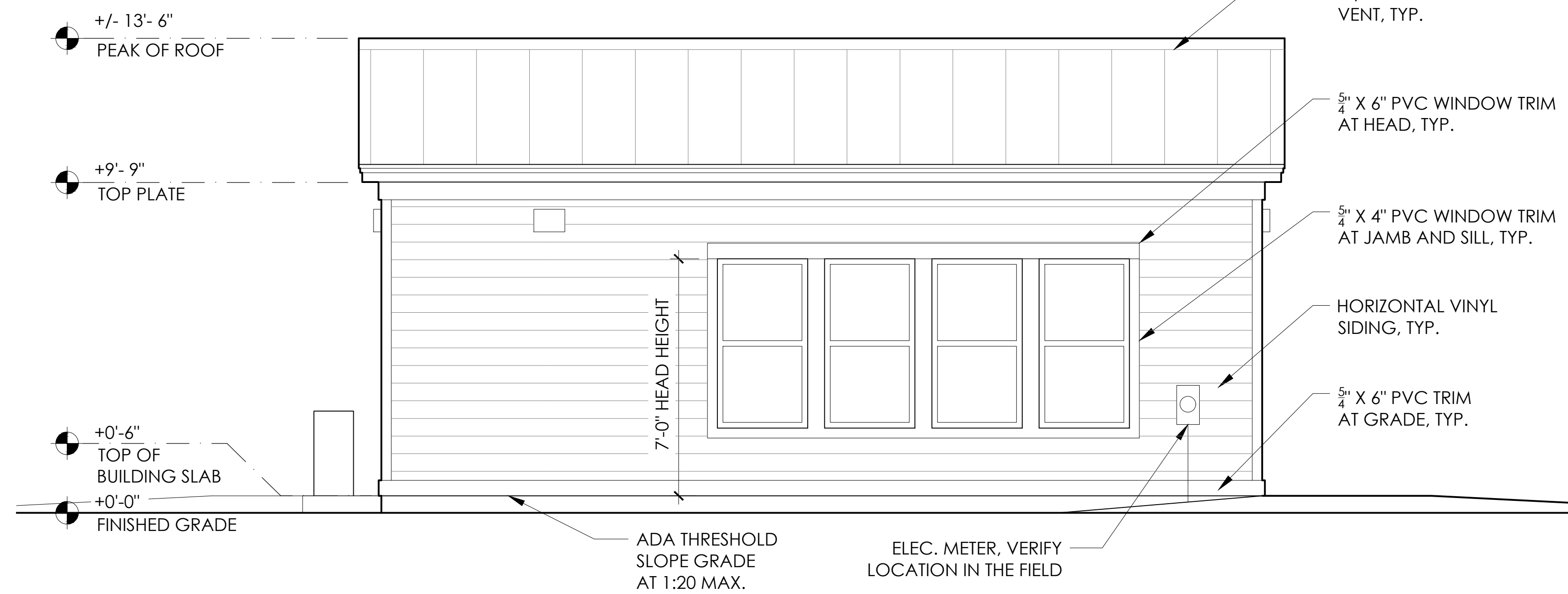
1 EXTERIOR ELEVATION  
 SCALE: 3/8" = 1'-0"



2 EXTERIOR ELEVATION  
 SCALE: 3/8" = 1'-0"



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



4 EXTERIOR ELEVATION  
 SCALE: 3/8" = 1'-0"

DOOR SCHEDULE										
DOOR				FRAME					HDWR	NOTES
#	MATERIAL	TYPE	FINISH	WIDTH	HEIGHT	MATERIAL	FINISH	THRES/SILL		
1	COMPOSITE	A	PAINTED	3'-0"	7'-0"	WOOD	PAINTED	ADA	A	EXTRA HEAVY DUTY CLOSER
2	METAL	B	PAINTED	6'-0"	7'-0"	METAL	PAINTED	ADA	C	EXTRA HEAVY DUTY CLOSER
3	COMPOSITE	C	PAINTED	3'-0"	7'-0"	COMPOSITE	PAINTED	ADA	B	

### HARDWARE SETS:

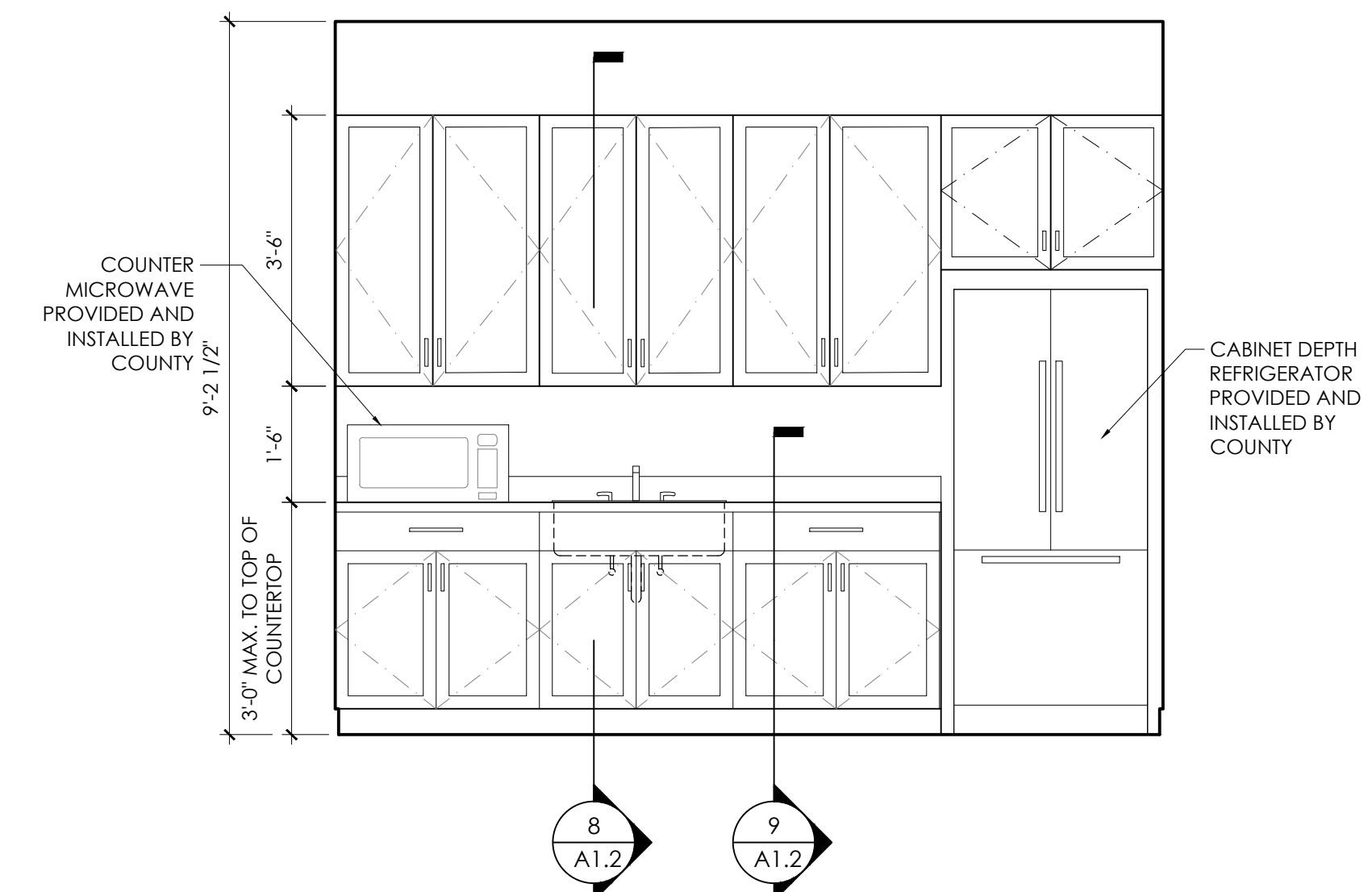
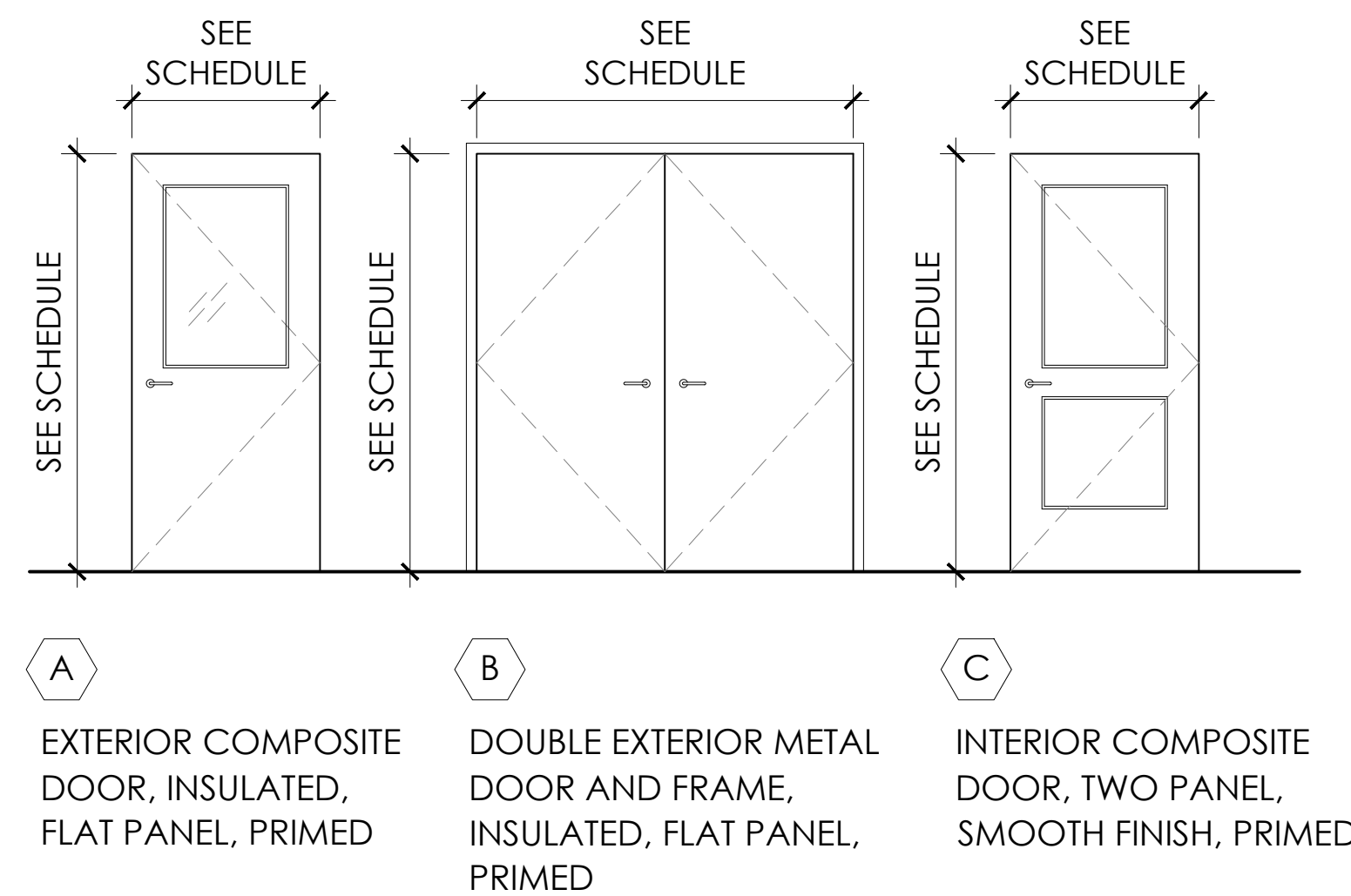
**HARDWARE SET A:** ENTRY SINGLE DOOR - EXTERIOR ADA APPROVED LEVER HANDLES, SINGLE OPERATION LOCKSET WITH INTERCONNECTED DEADBOLT. KEY FOB ACCESS CONTROL. SURFACE MOUNTED EXTRA HEAVY DUTY CLOSER.

**HARDWARE SET B:** TOILET ROOM DOOR - ADA APPROVED LEVER HANDLE W/ THUMB TURN LOCK.

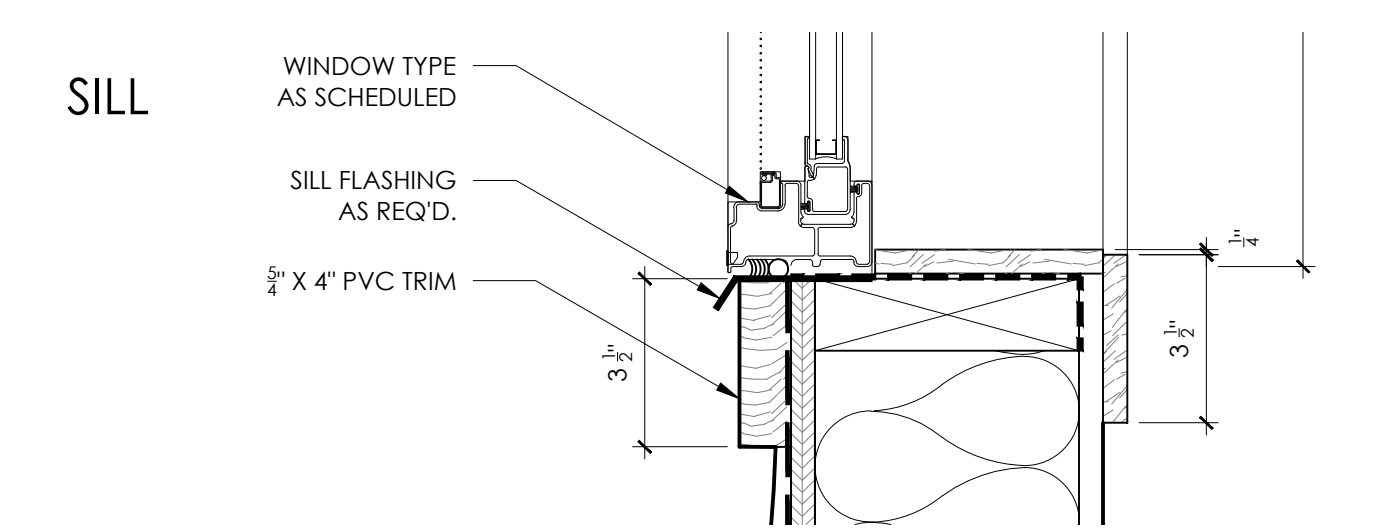
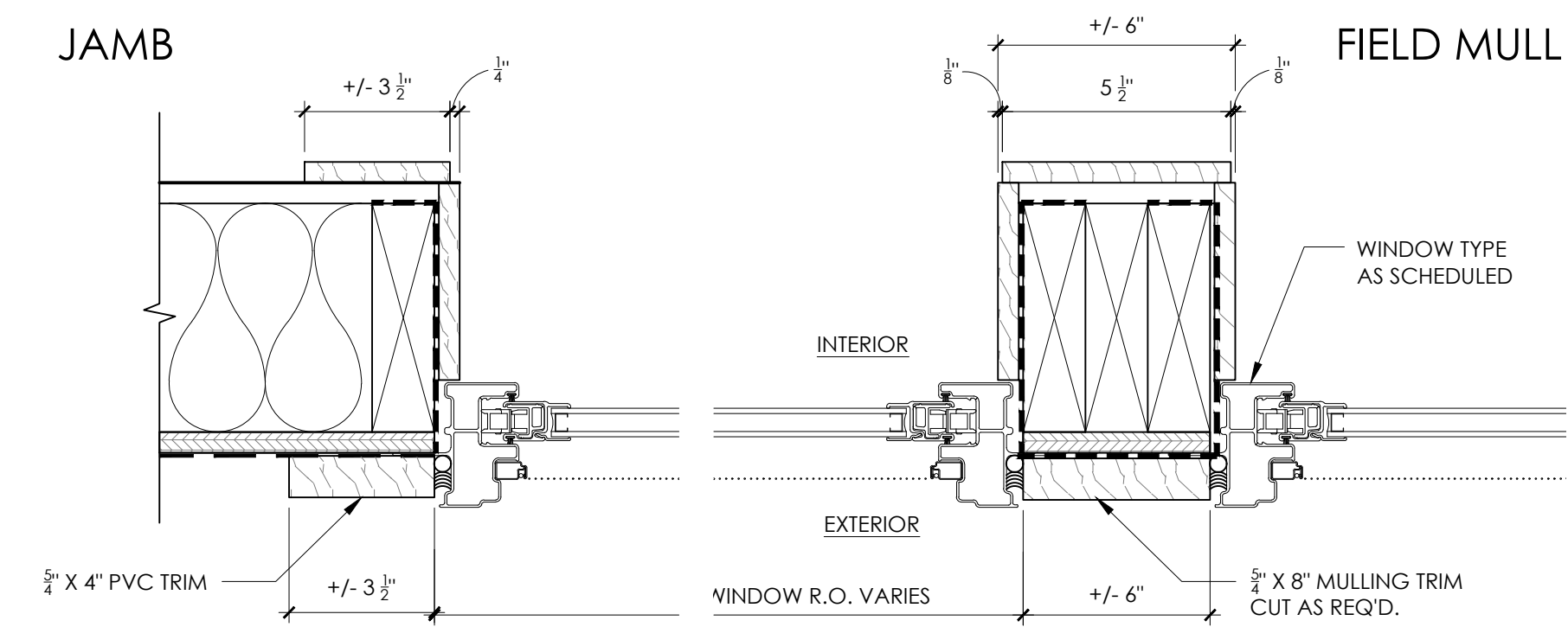
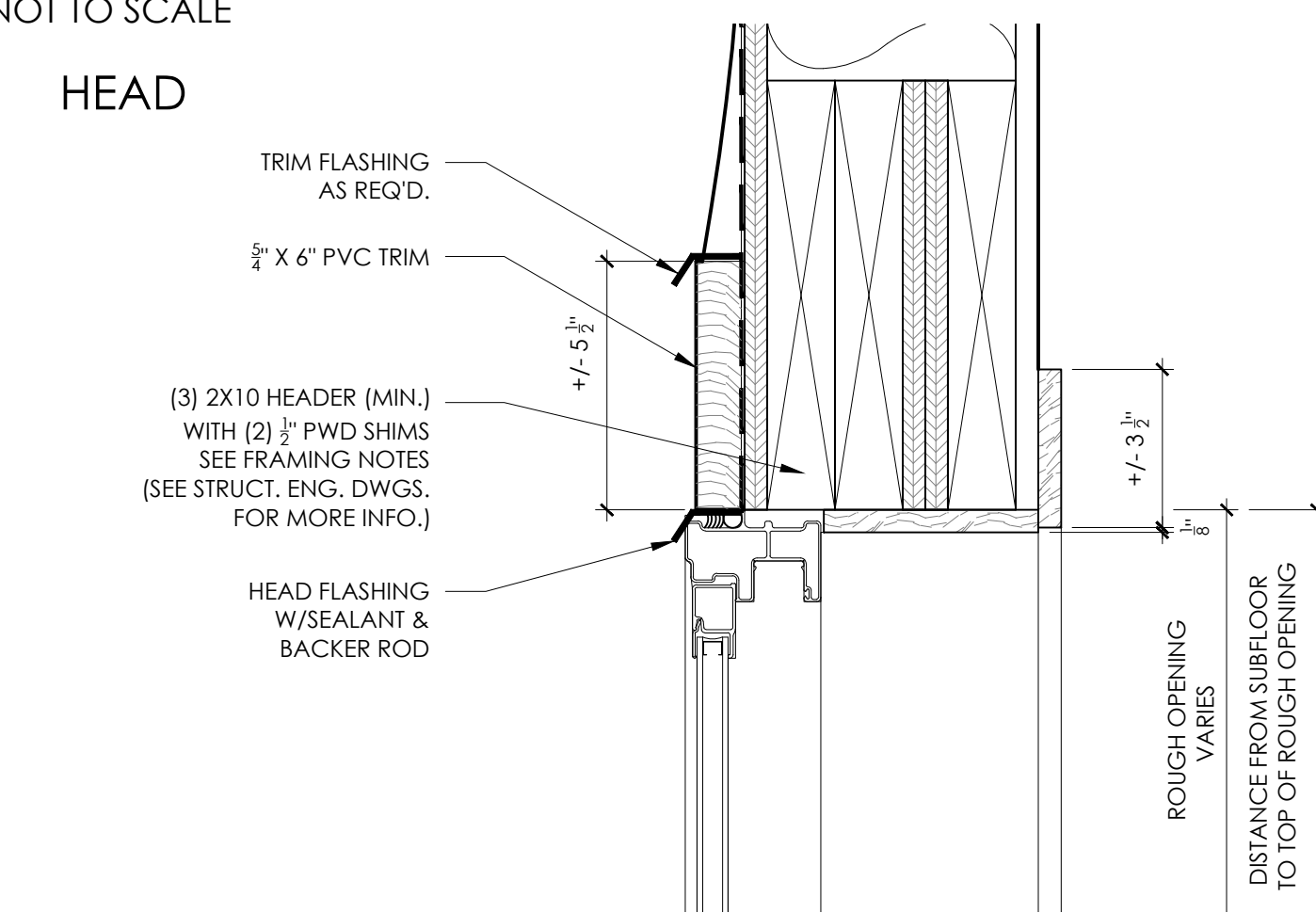
**HARDWARE SET C:** STORAGE DOOR - KEYED PRIVACY LOCKSET. DEADLOCKING LATCH BOLT OPERATED BY LEVER HANDLE FROM BOTH SIDES, EXCEPT WHEN OUTSIDE HANDLE IS LOCKED FROM OUTSIDE BY KEY (INSIDE LEVER ALWAYS OPERATED LATCH BOLT). SURFACE MOUNTED EXTRA HEAVY DUTY CLOSER.

### NOTES:

- FOR INTERIOR DOORS, WIDTH AND HEIGHT VALUES REPRESENT ACTUAL DOOR SIZE AND NOT FRAME SIZE.
- ALL FRAMES THAT ARE PART OF A RATED ASSEMBLY MUST BE RATED.
- CONTRACTOR TO CONFIRM THE CORRECT "HAND" OF EACH DOOR PRIOR TO PURCHASING.
- ALL LOCKSETS AND LATCHSETS TO RECEIVE ADA APPROVED LEVER HAND TO HAVE SMOOTH TEXTURE.
- ALL EXTERIOR HARDWARE FINISH TO BE SUITABLE FOR COASTAL ENVIRONMENTS.

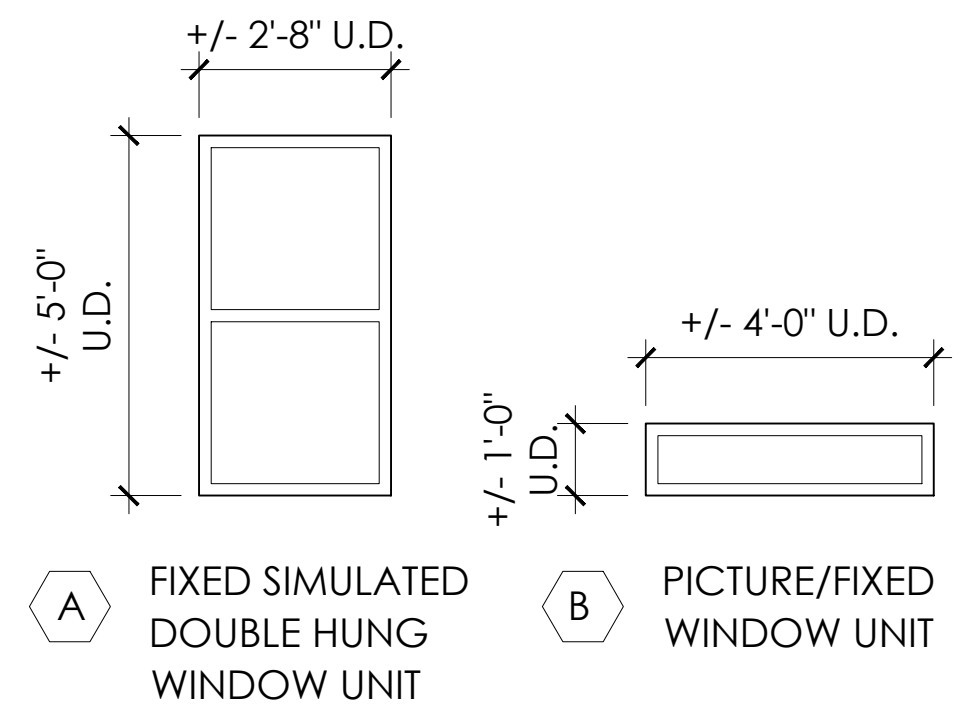


5 KITCHENETTE ELEVATION  
NOT TO SCALE



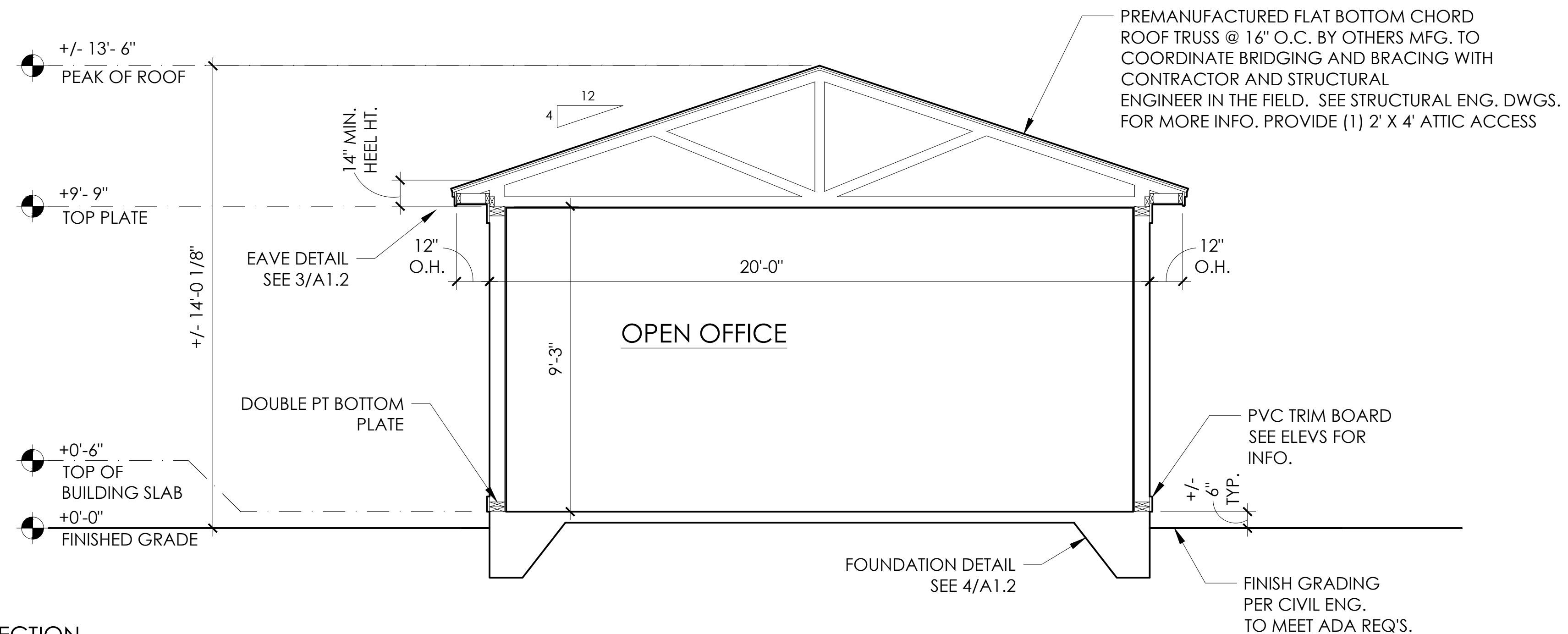
4 TYPICAL WINDOW DETAILS  
NOT TO SCALE

2 DOOR SCHEDULE  
NOT TO SCALE



- WINDOW NOTES:**
- MUNTINS AND PATTERNS ARE TO BE AS SHOWN ON WINDOW TYPES
  - SET WINDOW HEAD HEIGHTS TO MATCH EXTERIOR DOORS, TYP., SEE ELEVATIONS FOR MORE INFO.
  - ALL WINDOW SIZES ARE APPROXIMATE AND DO NOT REPRESENT ROUGH OPENING SIZES. ACTUAL SIZE MAY VARY DEPENDING UPON FINAL MANUFACTURER.
  - ALL WINDOWS TO BE DESIGNED FOR 130 MPH WIND VELOCITY (3 SEC. GUST). WINDOW ATTACHMENT TO WALL STUDS TO BE DESIGNED BY WINDOW MANUF. OR OTHERS. WINDOW CONFIGURATIONS TO BE VERIFIED FOR INTENDED USE IN HIGH WIND ZONES. REFER TO NC STATE BUILDING CODE FOR REQUIRED DESIGN GLAZING PRESSURE.
  - EXTERIOR WINDOW COLOR TO BE WHITE. GENERAL CONTRACTOR TO COORDINATE FINAL COLOR W/ARCHITECT PRIOR TO PURCHASE.
  - INTERIOR WINDOW COLOR TO BE UNFINISHED WOOD PAINTED WHITE U.O.N.
  - GLAZING TO BE LOW-E TO MEET THE 2018 NC ENERGY CODE FOR COMMERCIAL CONSTRUCTION- U VALUES AND SHGC VALUES.
  - WINDOWS ARE TO BE ALUM CLAD, VINYL CLAD OR COMPOSITE MATERIALS.
  - ALL WINDOWS TO HAVE EXTENSION JAMBS AS REQUIRED TO MATCH 2" X 6" EXTERIOR WALL CONSTRUCTION.
  - CONTRACTOR TO PROVIDE PRE-CUT PLYWOOD PANELS, PRE-DRILLED, NUMBERED AND WITH STAINLESS STEEL SCREWS STORED ON SITE FOR HURRICANE PREPARATION PER COUNTY REQUIREMENTS. COORDINATE WITH BUILDING INSPECTOR PRIOR TO FABRICATION.
  - TEMPERED GLASS SHALL BE REQUIRED W/IN 2 FEET OF DOOR EDGES.

3 WINDOW LEGEND  
NOT TO SCALE



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

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PROJECT NAME:  
**ATTENDANT BUILDING**  
North Boyd  
Beaufort County  
North Carolina

REVISIONS:	DATE:
ISSUED FOR BID	3 / 30 / 26

DRAWING NAME:  
**BUILDING SECTION**

**ISSUED FOR BID**

DRAWN BY: CN

DATE:

SCALE:

STAMP:  
  
3 / 30 / 26

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SHEET:  
**A3.1**

## GENERAL SPECIFICATIONS:

- THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO BIDDING TO DETERMINE THE EXTENT OF THE WORK. LACK OF KNOWLEDGE OF EXISTING CONDITIONS WILL NOT BE CONSIDERED A BASIS FOR CHANGE ORDERS. THIS WILL INCLUDE A SATISFACTORY EFFORT BY THE CONTRACTOR TO FIELD VERIFY PROPER FIT. EXPENSE INCURRED BY THE CONTRACTOR, WHICH COULD HAVE BEEN AVOIDED BY THIS STEP SHALL NOT BE A BASIS FOR CHANGE ORDER.
- CONTRACTOR TO ELECTRONICALLY SUBMIT SPECIFICATIONS AND DETAIL FOR EQUIPMENT AND FABRICATED MATERIALS FOR OWNER'S APPROVAL PRIOR TO ISSUING PURCHASE ORDER. OWNER WILL RETURN WITH ACTION NOTED. OWNER'S APPROVAL DOES NOT RELIEVE CONTRACTOR OF ANY RESPONSIBILITY FOR PERFORMANCE AND OPERATION.
- CONTRACTOR SHALL FURNISH AND INSTALL ALL EQUIPMENT AND MATERIALS FOR A COMPLETE INSTALLATION IN ALL RESPECTS READY OF INTENDED USE AND THE STRICT ACCORDANCE WITH STATE AND LOCAL CODES AND MANUFACTURER'S RECOMMENDATIONS. PAY NECESSARY FEES AND OBTAIN PERMITS. INITIATE, MAINTAIN AND SUPERVISE ALL SAFETY PRECAUTIONS AND PROCEDURES.
- EQUIPMENT AND MATERIALS SHALL BE OF THE TYPE, SIZE AND MANUFACTURERS INDICATED ON THE DRAWINGS OR AN APPROVED EQUIVALENT.
- THE CONTRACTOR SHALL SUPPLY AND INSTALL THE MATERIALS AND EQUIPMENT COVERED BY THE PLANS AND SPECIFICATIONS TO THE OWNER COMPLETE AND IN FIRST CLASS CONDITION IN EVERY RESPECT. HE SHALL GUARANTEE THAT THE MATERIAL, EQUIPMENT, AND WORKMANSHIP SUPPLIED AND INSTALLED BY HIM SHALL BE ENTIRELY FREE FROM DEFECTS AND THAT HE WILL REPAIR OR REPLACE AT HIS OWN EXPENSE, ANY MATERIALS, EQUIPMENT, AND WORKMANSHIP IN WHICH DEFECTS ARE FOUND.
- PROVIDE WARRANTY FOR A PERIOD OF 12 MONTHS AGAINST DEFECTIVE WORKMANSHIP AND MATERIALS AFTER FINAL ACCEPTANCE AT NO ADDITIONAL COST TO THE OWNER.
- WORK SHALL COMPLY WITH THE REQUIREMENTS OF THE APPLICABLE LOCAL AND STATE CODES.

## PLUMBING ABBREVIATIONS:

AC	AIR CONDITIONING	MIN	MINIMUM
BLDG	BUILDING	MISC	MISCELLANEOUS
CLG	CEILING	NA	NOT APPLICABLE
CONC	CONCRETE	NC	NORMALLY CLOSED
DIA	DIAMETER	NC	NOT IN CONTRACT
(E)	EXISTING	OC	ON CENTER
EA	EACH	OD	OUTSIDE DIAMETER
EFF	EFFICIENCY	PD	PRESSURE DROP
ELEC	ELECTRICAL	POC	POINT OF CONNECTION
FD	FLOOR DRAIN	PSI	POUNDS PER SQUARE INCH GAUGE
FT	FOOT OR FEET	SL	SLOPE
FU	FIXTURE UNIT	SP	STATIC PRESSURE
GA	GAUGE	SPECS	SPECIFICATIONS
GAL	GALLON	STD	STANDARD
GALV	GALVANIZED	STOR	STORAGE
GPH	GALLONS PER HOUR	STRUCT	STRUCTURAL
GPM	GALLONS PER MINUTE	TEMP	TEMPERATURE
HD	HEAD	TYP	TYPICAL
HP	HORSEPOWER	UF	UNDER FLOOR
HVAC	HEATING, VENT & AIR CONDITIONING	UG	UNDERGROUND
LAB	LABORATORY	UON	UNLESS OTHERWISE NOTED
IN	INCH	V	VENT OR VOLTS
LAB	LABORATORY	VR	VENT RISER
LBS	POUNDS	VTR	VENT THROUGH ROOF
LVL	LEVEL	W	WATTS
MAX	MAXIMUM	WT	WEIGHT

## PLUMBING LEGEND

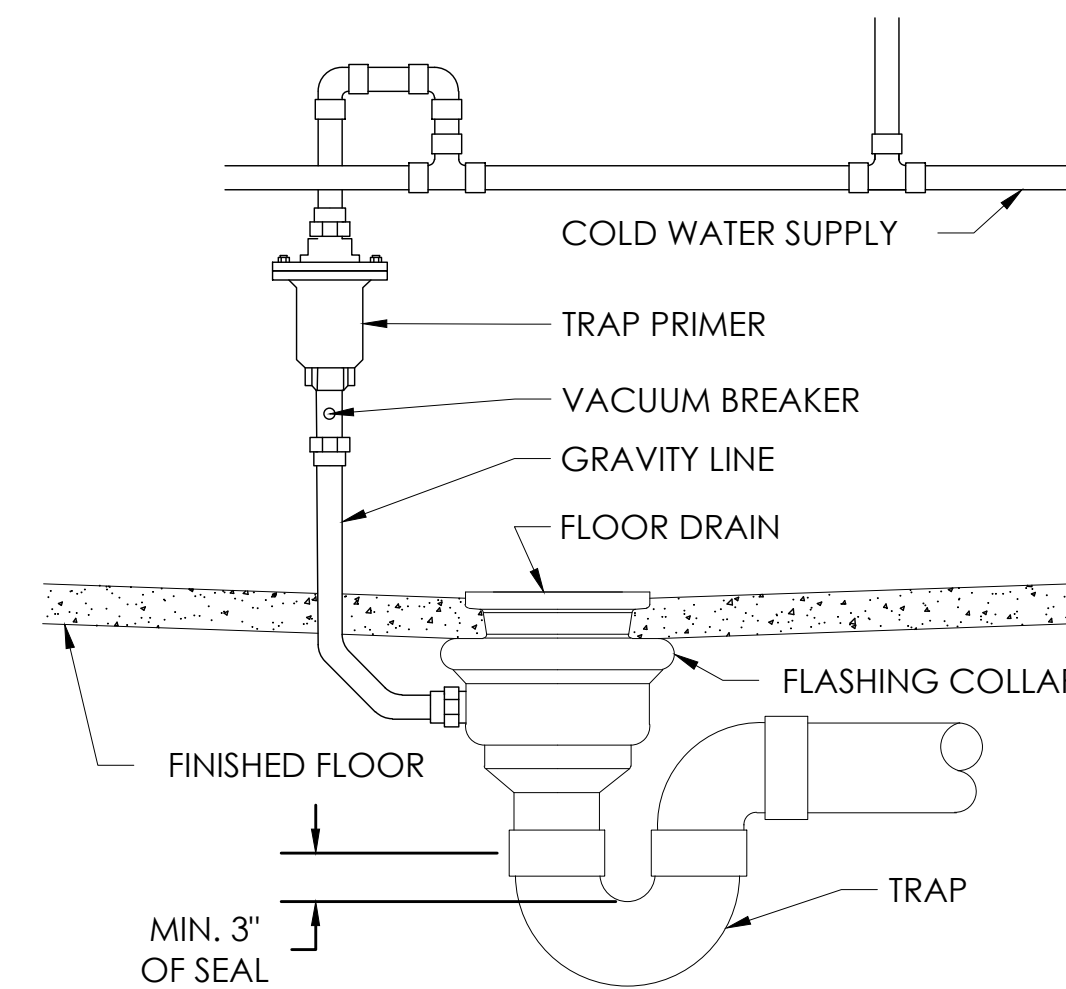
-----	VENT PIPING
-----	DOMESTIC COLD WATER PIPING
-----	DOMESTIC HOT WATER PIPING
-----	HOT WATER RETURN PIPING
-----	SANITARY WASTE PIPING
○	FLOOR CLEANOUT
○	FLOOR DRAIN
VTR	VENT THRU ROOF
FLA	FULL LOAD AMPS
⊠	BACKFLOW PREVENTER
1	NEW WORK NOTE MARK
⋈	VALVE
⊠	FLOOR SINK
⊠	WALL HYDRANT (WH)
⊠	HOSE BIB (HB)

## PLUMBING FIXTURE CONNECTION SCHEDULE

SYMBOL	TYPE	CW	HW	WASTE	VENT	MANUFACTURER	MODEL	REMARKS
P-1	WATER CLOSET	1/2"		3"	1 1/2"	PROFLO	PF1403T	1, 2, 4
P-2	LAVATORY ACCESSIBLE	1/2"	1/2"	1 1/2"	1 1/2"	AMERICAN STANDARD	0356.041	1, 3
P-3	KITCHEN SINK	3/4"		2	1 1/2"	AMERICAN STANDARD	22SB.6252283S.075	1, 5
P-4	ICE MAKER CONNECTION BOX	1/2"				WATER-TITE	82419	6
BFP-1	BACK FLOW PREVENTER	3/4"				WATTS	9	7
EW-1	ELECTRIC WATER HEATER	3/8"	3/8"	-	-	CHRONOMITE	CM-20L/240	9
EW-2	ELECTRIC WATER HEATER	3/8"	3/8"	-	-	CHRONOMITE	CM-20L/120	10
FD-1	FLOOR DRAIN	1/2"		2"	1 1/2"	WATTS	FD-100	8
WH-1	WALL HYDRANT	1/2"				WOODFORD	MODEL 25	11

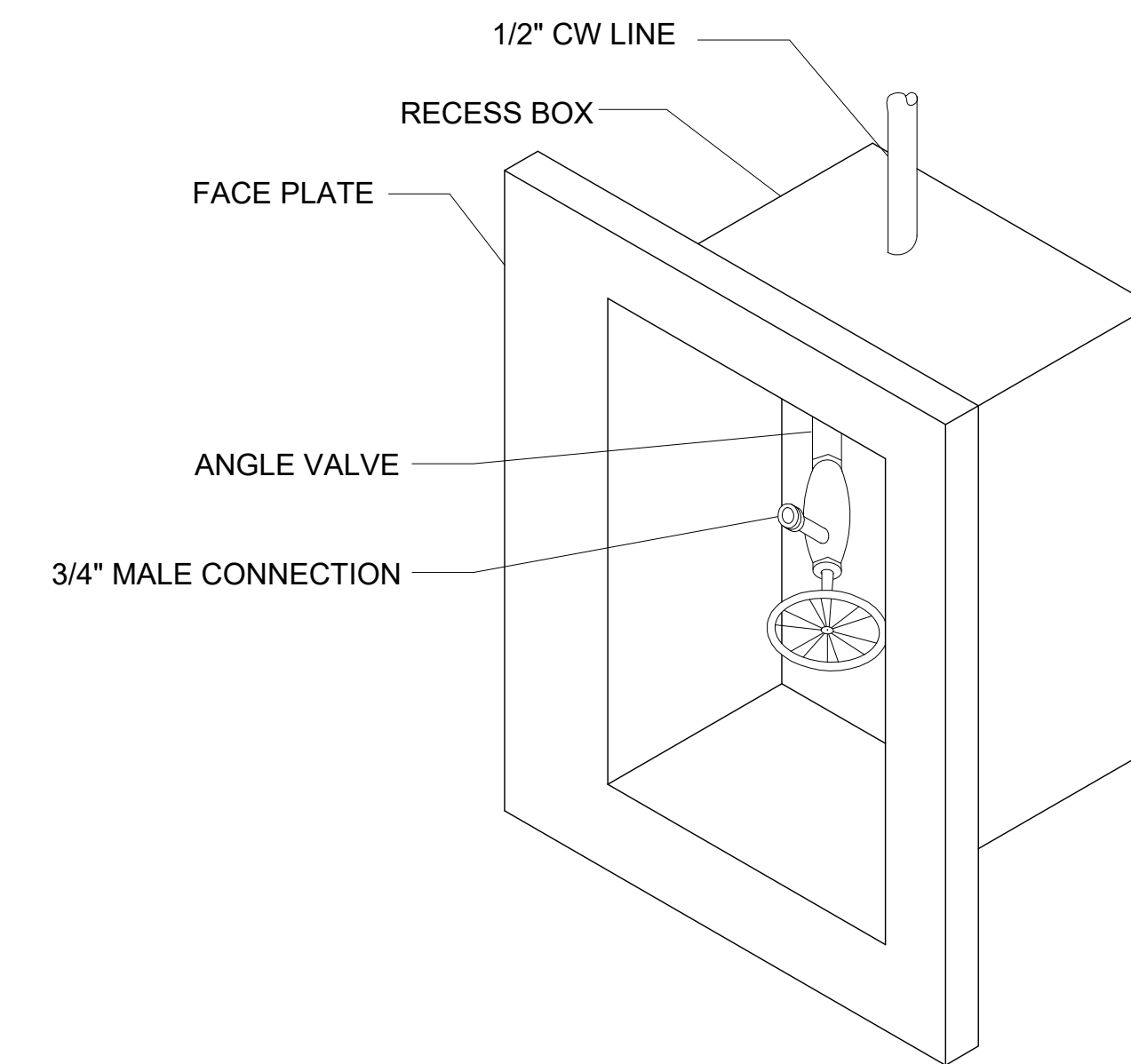
### NOTES:

- PLUMBING FIXTURES SHALL CONFORM TO THE (U.F.A.S) UNIFORM FEDERAL ACCESSIBILITY STANDARDS.
- TANK TYPE FLOOR MOUNTED WATER CLOSET 1.25 GPF, PROVIDE WITH COMMERCIAL GRADE, OPEN FRONT SEAT WITHOUT COVER
- WALL MOUNTED ADA COMPLIANT LAVATORY, SINGLE HOLE, PROVIDE WITH STERLING MODEL 27371-4N SINGLE HOLE DECK MOUNTED FAUCET
- COORDINATE FLUSH LEVER TO BE ON OPEN ROOM SIDE OF TANK TO CONFORM WITH ADA STANDARDS FOR ADA COMPLIANT STALLS
- STAINLESS STEEL KITCHEN SINK, 25"x22" SINGLE BOWL, ADA COMPLIANT, 3-HOLE DRILLED, PROVIDE WITH COLONY PRO SINGLE LEVER, ADA COMPLIANT FAUCET.
- FR-12 SERIES, PROVIDE WATER SHUT OFF VALVE AND WATER HAMMER ARRESTORS. OR APPROVED EQUAL
- REDUCED PRESSURE BACK FLOW PREVENTER RATED FOR POTABLE WATER USE.
- PROVIDE WITH TRAP PRIMER FED FROM THE DOMESTIC COLD WATER LINE, COORDINATE DRAIN REQUIREMENTS WITH FLOOR CONSTRUCTION AND FINISH PRIOR TO ORDERING.
- TANKLESS ELECTRIC WATER HEATER TO PROVIDE .35 GPM OF 4.8 KW HOT WATER WITH A 90°F RISE, 240 VOLT, 1 PHASE, 20 AMP MOCBP, PROVIDE WITH 2-S1212 RECESSED CABINET WITH PRE-WIRED ELECTRIC DISCONNECT.
- TANKLESS ELECTRIC WATER HEATER TO PROVIDE .35 GPM OF 2.4 KW HOT WATER WITH A 47°F RISE, 120 VOLT, 1 PHASE, 20 AMP MOCBP, PROVIDE WITH 2-S1212 RECESSED CABINET WITH PRE-WIRED ELECTRIC DISCONNECT.
- FREEZE PROOF WALL HYDRANT, PROVIDE WITH VACUUM BREAKER, COORDINATE WITH WALL THICKNESS AND CONSTRUCTION.



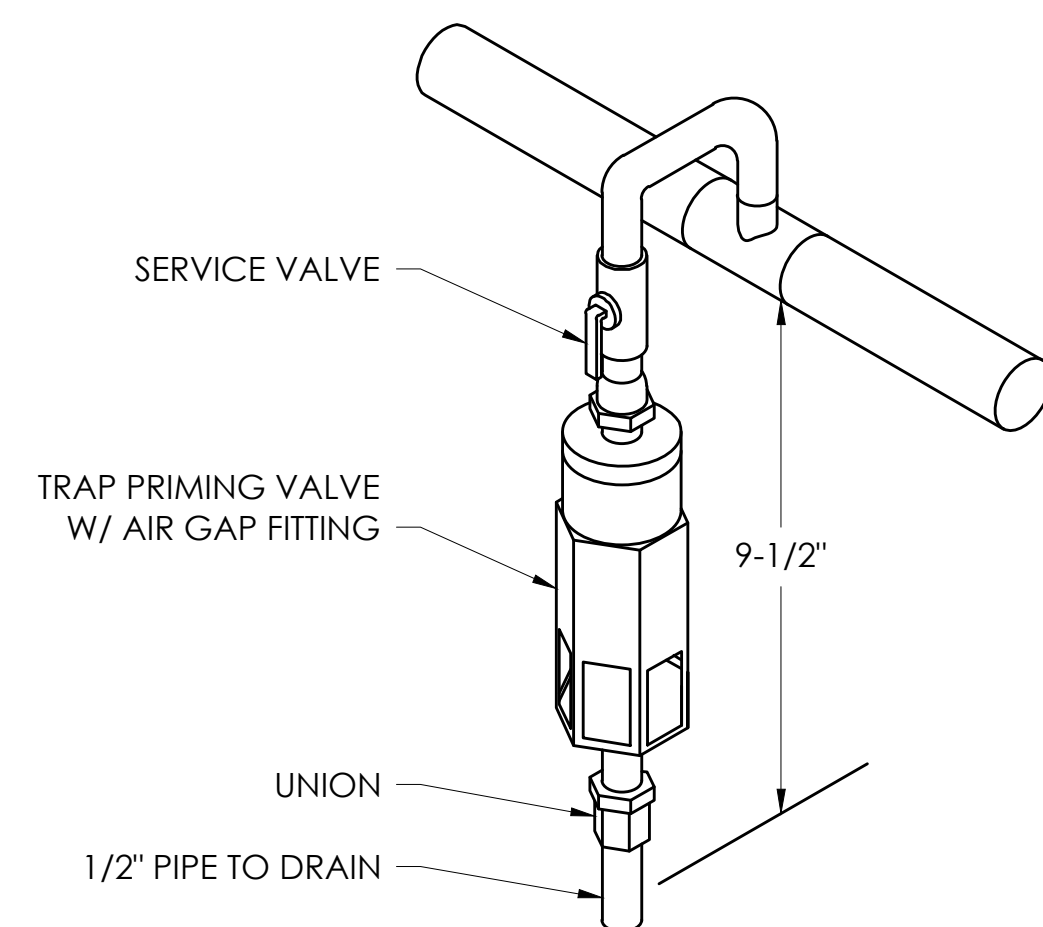
FLOOR DRAIN DETAIL

NO SCALE



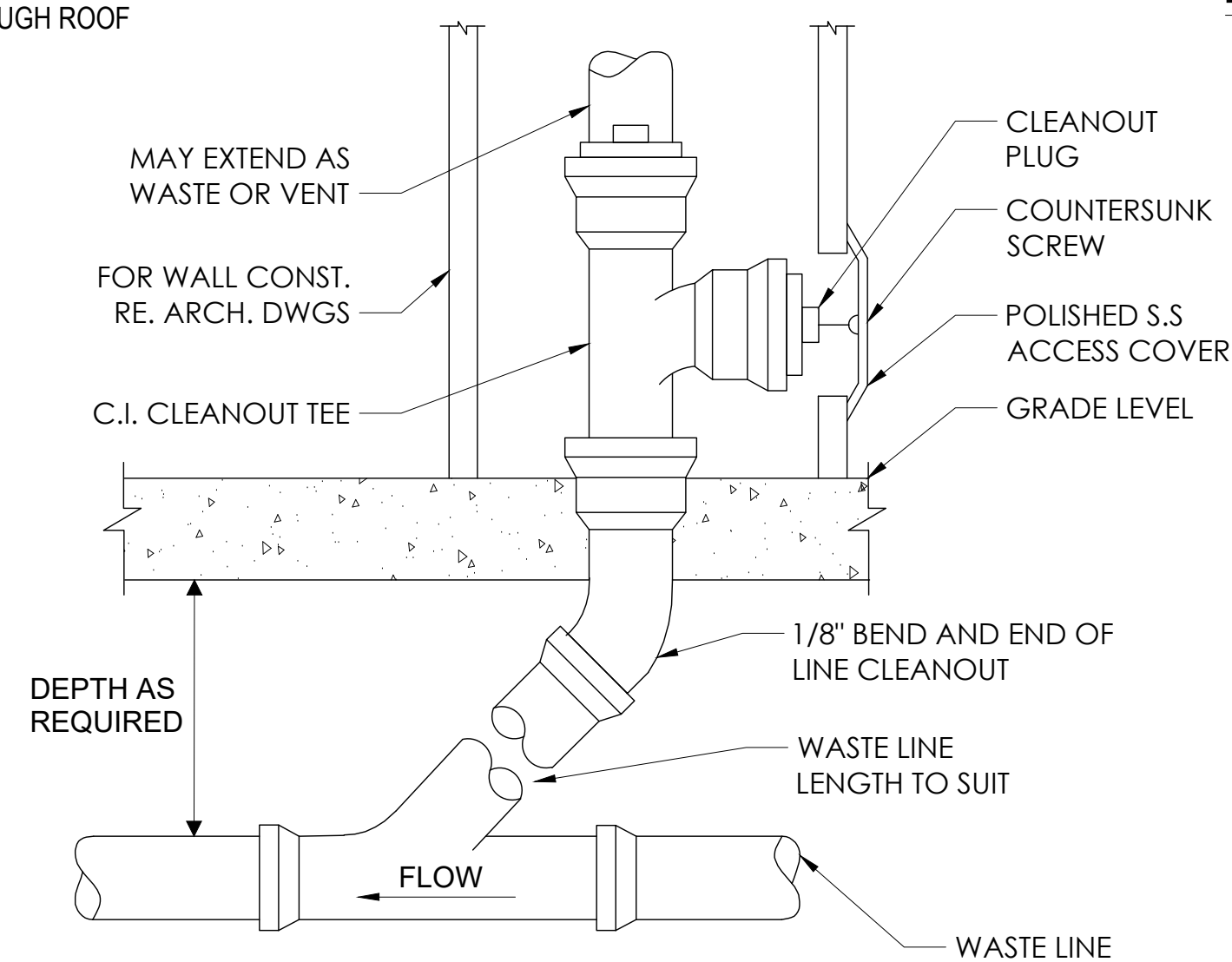
ICE MAKER CONNECTION BOX

NOT TO SCALE



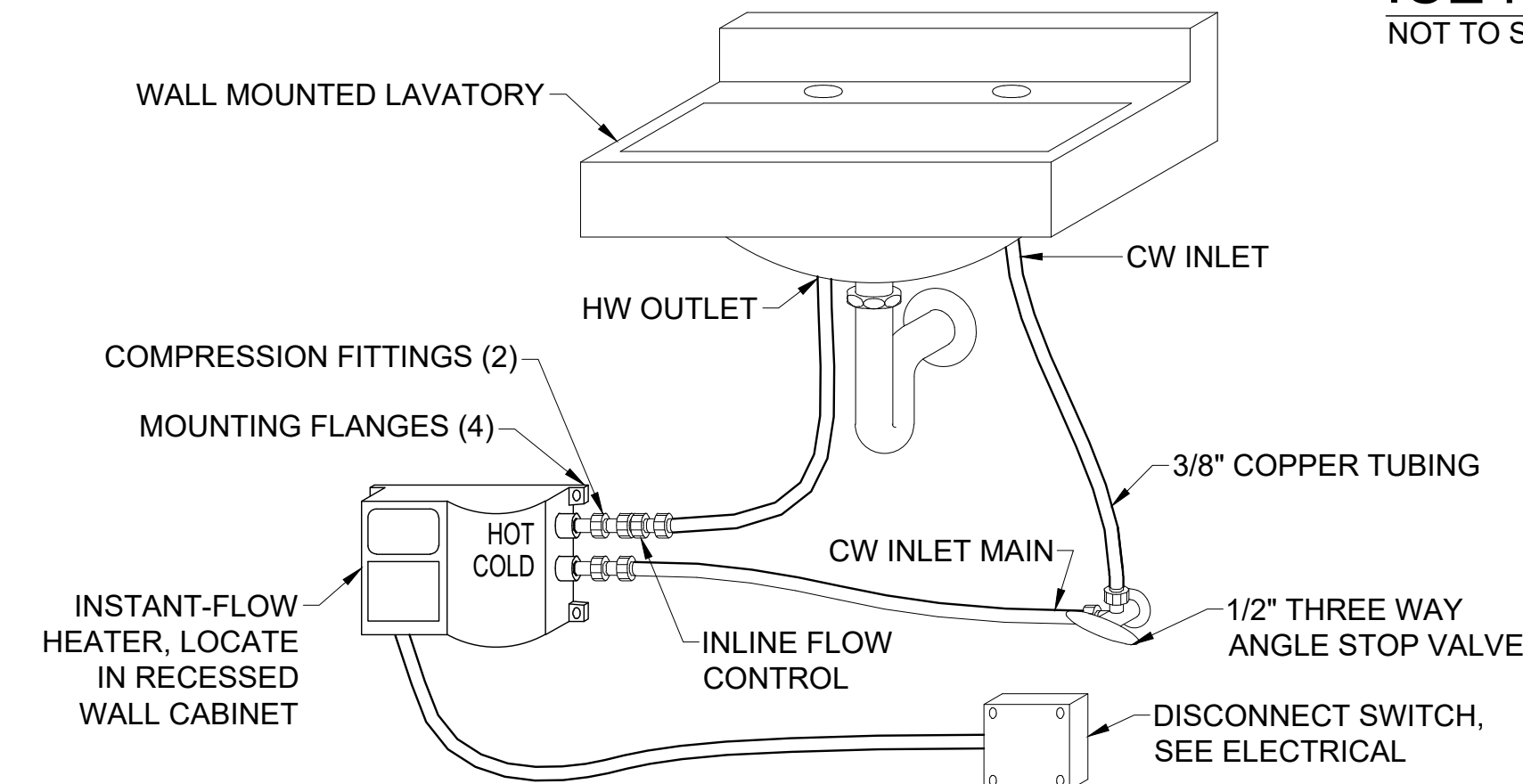
TRAP PRIMER DETAIL

NO SCALE



WALL CLEAN-OUT DETAIL

NO SCALE



INSTANTANEOUS ELECTRIC WATER HEATER DETAIL

NO SCALE

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PROJECT NAME:  
**ATTENDANT BUILDING**  
North Boyd  
Beaufort County  
North Carolina

REVISIONS: DATE:  
ISSUED FOR BID 3 / 30 / 26

DRAWING NAME:  
SPECIFICATIONS, LEGEND,  
ABBREVIATIONS, DETAILS  
AND SCHEDULE

ISSUED FOR BID

DRAWN BY: LKK

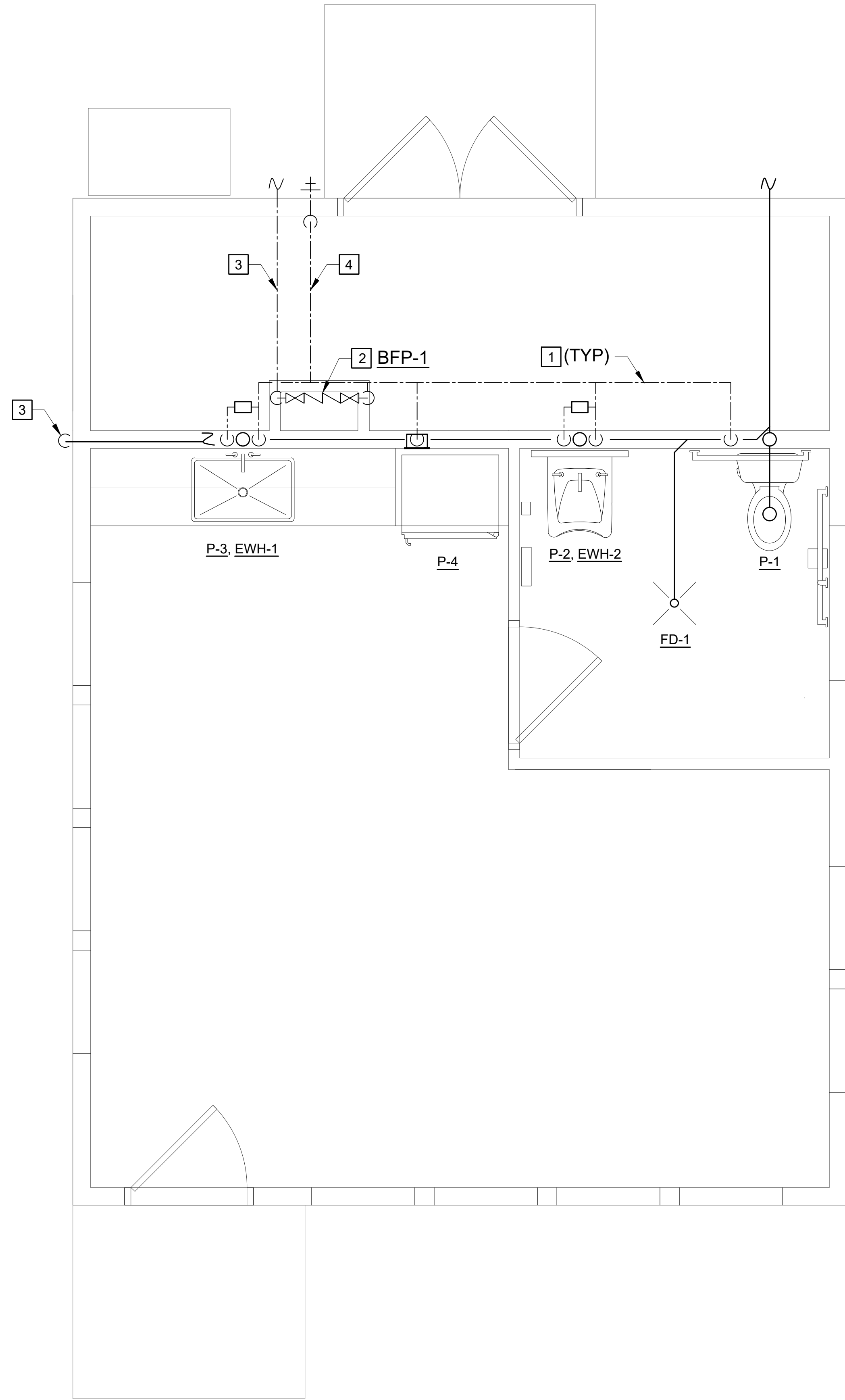
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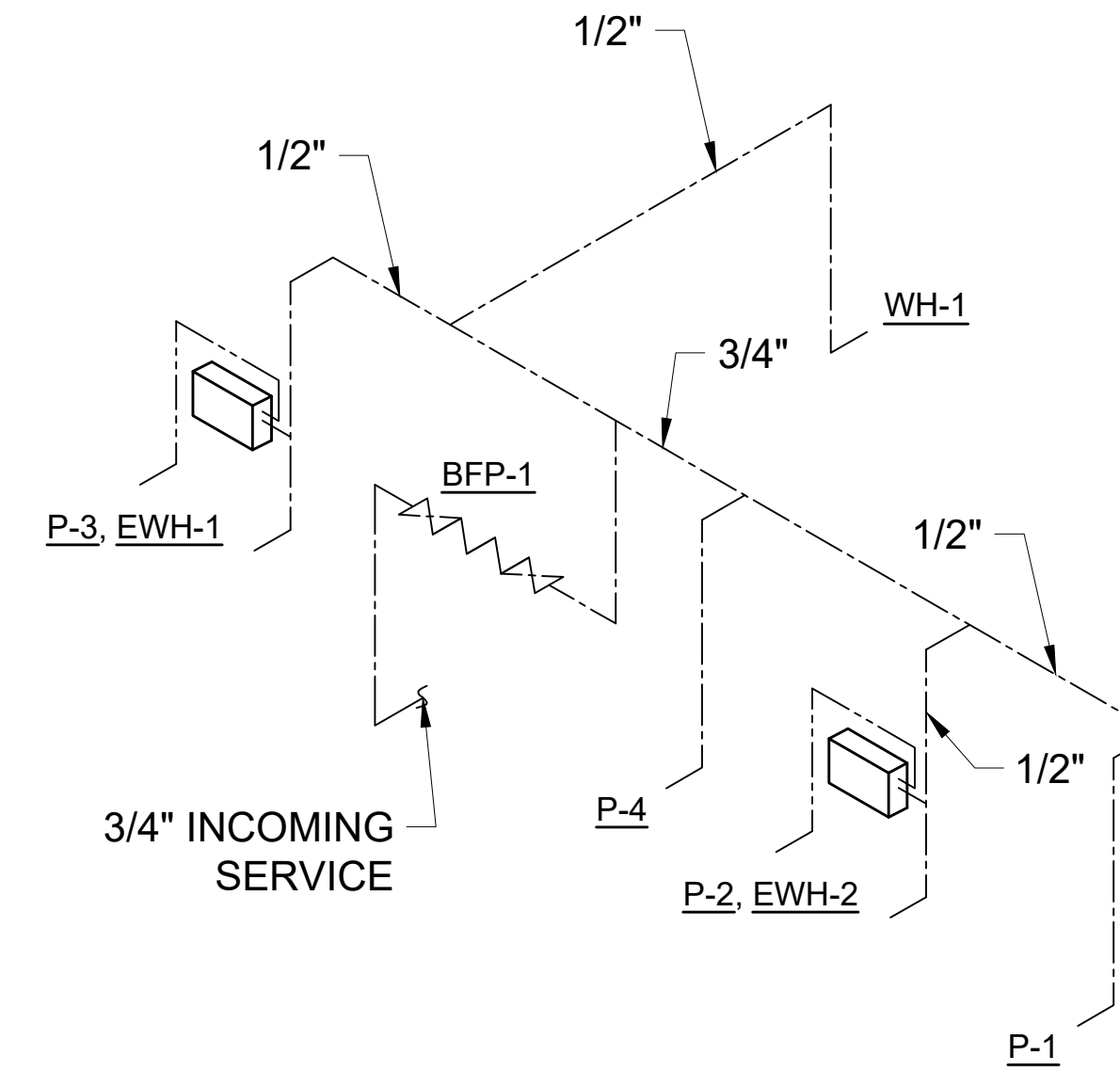
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**NEW WORK NOTES:**

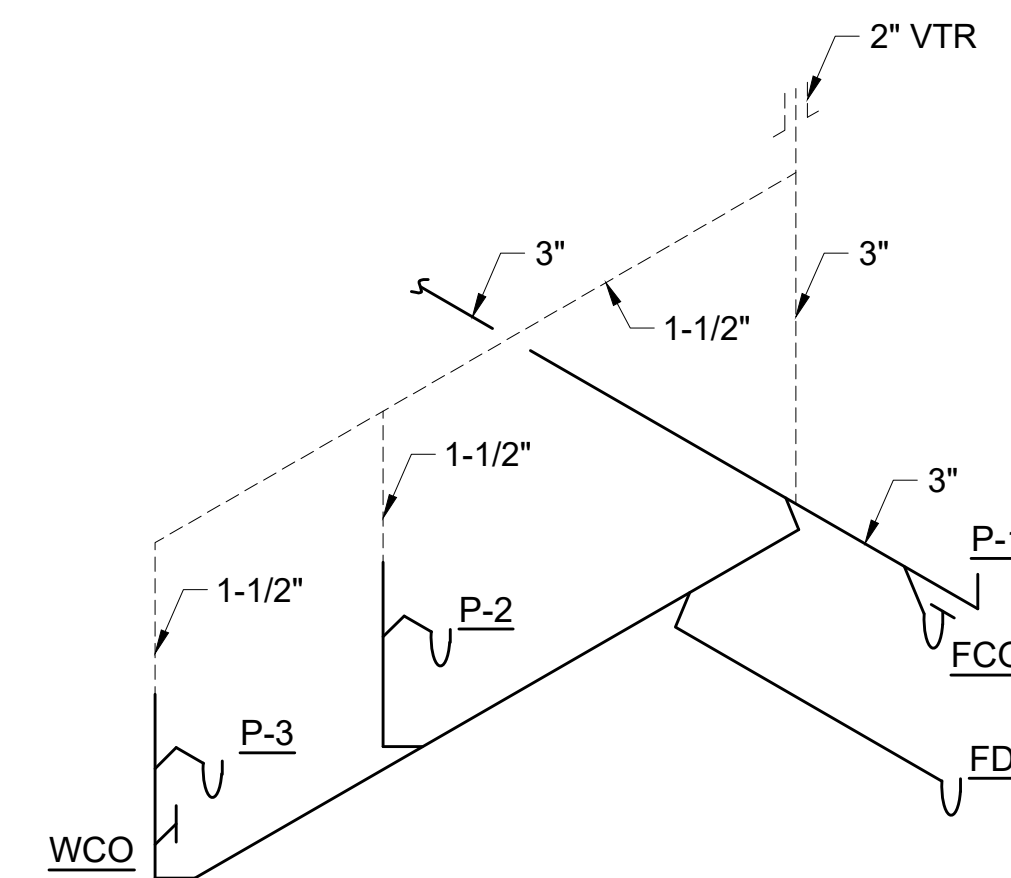
(THIS SHEET ONLY)

- 1 PIPING, WATER HEATERS, AND BACK FLOW PREVENTER ARE LOCATED IN WALL ON CONDITIONED SIDE OF INSULATION SHOWN OFFSET FOR CLARITY.
- 2 LOCATE BFP-1 AND MAIN SHUT OFF VALVE IN WALL CAVITY BETWEEN STUDS, SERVICED FROM STORAGE ROOM SIDE, SEE ARCHITECTURAL PLANS FOR FRAMING AND INSULATED DOOR.
- 3 RUN WATER SERVICE BELOW GRADE AND TURN UP IN WALL, PROVIDE WITH MAIN SHUT OFF VALVE.
- 4 HEAT TRACE PIPING IN UNCONDITIONED AREA AT 5 W/LF WITH THERMOSTAT CONTROL, COVER WITH 3/4" INSULATION AND VAPOR BARRIER.
- 5 RUN BACK FLOW PREVENTER DRAIN FULL SIZE OF UNIT DISCHARGE IN WALL TO EXTERIOR OF BUILDING, TURN DOWN AND SPILL ON GRADE.



**WATER RISER DIAGRAM**

NO SCALE



**WASTE RISER DIAGRAM**

NO SCALE

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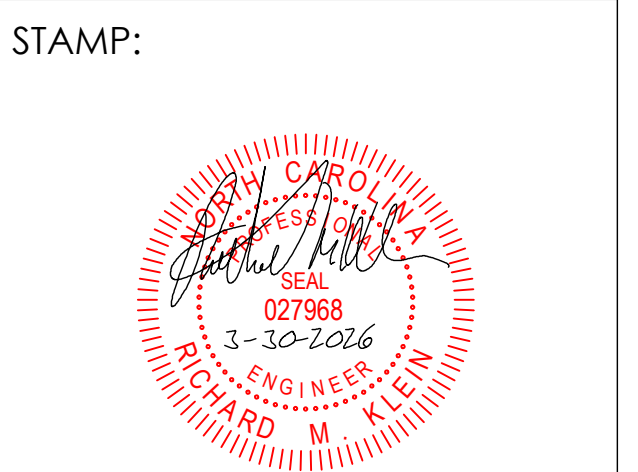
DRAWING NAME:  
 FLOOR PLAN  
 NEW WORK AND RISERS

**ISSUED FOR BID**

DRAWN BY: JAK

DATE: 03/30/2026

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



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**P2.1**

# PLUMBING SPECIFICATIONS:

## 1. INTRODUCTION

- 1.1. SCOPE OF WORK INCLUDES PROVIDING A FIRST CLASS WORKING SYSTEM IN COMPLIANCE WITH THESE DRAWINGS AND THE SPECIFICATIONS, TESTED READY FOR OPERATION COMPLETE WITH LABOR, MATERIALISM APPARATUS, TRANSPORTATION, AND TOOLS REQUIRED FOR THE INSTALLATION.
- 1.2. SCOPE OF WORK
  - 1.2.1. PLUMBING CONTRACTOR SHALL FURNISH AND INSTALL PLUMBING FIXTURES, ACCESSORIES, AND ASSOCIATED PIPING AS A STATED HEREIN. REFER TO THE PLUMBING PLANS AND THE "MATERIALS" PORTION OF THIS SPECIFICATION FOR EQUIPMENT TO BE FURNISHED. EXACT LOCATION OF ALL EQUIPMENT SHALL BE DETERMINED BY REFERENCE TO THE PLANS AND MEASUREMENTS AT THE BUILDING SITE AND IN COOPERATION WITH ALL OTHER TRADES.
  - 1.2.2. EACH DRAWING OF EACH DISCIPLINE, INCLUDING MECHANICAL, ELECTRICAL, AND ARCHITECTURAL IS A PART OF THE CONSTRUCTION DOCUMENTS OF THIS DISCIPLINE AND SHALL BE REVIEWED BY THE CONTRACTOR.
- 1.3. GENERAL
  - 1.3.1. ALL SAFETY PRECAUTIONS SHALL BE TAKEN TO PROTECT PERSON, PROPERTY, AND EQUIPMENT.
  - 1.3.2. THE SPECIFICATIONS AND DRAWINGS FOR THE PROJECT ARE COMPLEMENTARY, AND PORTIONS OF WORK DESCRIBED IN ONE, SHALL BE PROVIDED AS IF DESCRIBED IN BOTH. IN THE EVENT OF DISCREPANCIES, NOTIFY THE ENGINEER AND / OR OWNER AND REQUEST A CLARIFICATION PRIOR TO PROCEEDING WITH THE WORK.
  - 1.3.3. THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO BIDDING TO DETERMINE THE EXTENT OF THE WORK. LACK OF KNOWLEDGE OF EXISTING CONDITIONS WILL NOT BE CONSIDERED A BASIS FOR CHANGE ORDERS. THIS WILL INCLUDE A SATISFACTORY EFFORT BY THE CONTRACTOR TO FIELD VERIFY PROPER FIT. EXPENSE INCURRED BY THE CONTRACTOR, WHICH COULD HAVE BEEN AVOIDED BY THIS STEP SHALL NOT BE A BASIS FOR CHANGE ORDER.
  - 1.3.4. ANY DEVIATION BY PLUMBING CONTRACTOR FROM THE PLANS AND SPECIFICATIONS, OR ANY SUBSTITUTION OF EQUIPMENT FROM THAT SPECIFIED, SHALL FIRST BE APPROVED BY THE ENGINEER.
  - 1.3.5. CONTRACTOR TO ELECTRONICALLY SUBMIT (OWNER WILL ELECTRONICALLY RETURN NOTED WITH ACTION TAKEN) SPECIFICATIONS AND DETAIL FOR EQUIPMENT AND FABRICATED MATERIALS FOR OWNER'S APPROVAL PRIOR TO ISSUING PURCHASE ORDER. OWNER'S APPROVAL DOES NOT RELIEVE CONTRACTOR OF ANY RESPONSIBILITY FOR PERFORMANCE AND OPERATION. PROVIDE PHYSICAL SAMPLES OF SUBMITTED MATERIALS WHERE APPLICABLE.
  - 1.3.6. THE PLUMBING CONTRACTOR SHALL REPAIR ANY MATERIAL OR WORK WHICH HE HAS DAMAGED.
  - 1.3.7. PROVIDE 3/16" THICK ENGRAVED WHITE PLASTIC LABEL TAB ON ALL SHUT-OFF AND DRAIN VALVES. THE TAGS SHALL BE A MINIMUM OF 3" X 5" AND BE ATTACHED TO THE VALVE BODY NON-CORROSIVE CHAIN. LETTERS SHALL BE ENGRAVED A MINIMUM OF 1/4" HIGH AND PAINTED BLACK. THE TAG SHALL IDENTIFY USE DRAIN, SHUT-OFF, ETC, AND WHICH APARTMENT IT SERVES.
  - 1.3.8. CONTRACTOR SHALL FURNISH AND INSTALL ALL EQUIPMENT AND MATERIALS FOR A COMPLETE INSTALLATION IN ALL RESPECTS READY OF INTENDED USE AND THE STRICT ACCORDANCE WITH STATE AND LOCAL CODES AND MANUFACTURER'S RECOMMENDATIONS. PAY NECESSARY FEES AND OBTAIN PERMITS. INITIATE, MAINTAIN AND SUPERVISE ALL SAFETY PRECAUTIONS AND PROCEDURES.
  - 1.3.9. EQUIPMENT AND MATERIALS SHALL BE OF THE TYPE, SIZE AND MANUFACTURERS INDICATED ON THE DRAWINGS OR AN APPROVED EQUIVALENT.
  - 1.3.10. THE CONTRACTOR SHALL SUPPLY AND INSTALL THE MATERIALS AND EQUIPMENT COVERED BY THE PLANS AND SPECIFICATIONS TO THE OWNER COMPLETE AND IN FIRST CLASS CONDITION IN EVERY RESPECT. HE SHALL GUARANTEE THAT THE MATERIAL, EQUIPMENT, AND WORKMANSHIP SUPPLIED AND INSTALLED BY HIM SHALL BE ENTIRELY FREE FROM DEFECTS AND THAT HE WILL REPAIR OR REPLACE AT HIS OWN EXPENSE, ANY MATERIALS, EQUIPMENT, AND WORKMANSHIP IN WHICH DEFECTS ARE FOUND.
  - 1.3.11. MISCELLANEOUS ITEMS NOT SHOWN ON THE PLANS BUT NECESSARY FOR A COMPLETE OPERABLE SYSTEM, SHALL BE SUPPLIED AND INSTALLED.
  - 1.3.12. COORDINATE WORK WITH THAT OF OTHER TRADES. SEE ARCHITECTURAL PLANS FOR THE EXACT LOCATIONS OF FIXTURES.
  - 1.3.13. INSTALL PIPING NEATLY AND PARALLEL WITH OR PERPENDICULAR TO LINES OR THE STRUCTURE. THE EXACT LOCATIONS OF PIPES SHALL BE DETERMINED BY THE CONTRACTOR TO AVOID INTERFERENCE WITH DUCTWORK, OTHER PIPING AND LIGHTING FIXTURES. INSTALL PIPE HANGARS TO MAINTAIN ACCURATELY ALIGNED PIPING SYSTEMS ADEQUATELY SUPPORTED BOTH Laterally AND VERTICALLY. PIPE HANGARS SHALL BE ADJUSTABLE TYPE, MSS SP-58 AND MSS SP-69. PROVIDE INSULATION PROTECTION SHIELDS WHERE REQUIRED. PROVIDE GALVANIZED STEEL SUPPORT RODS.
  - 1.3.14. SUPPORT ALL PIPING FROM THE BUILDING STRUCTURE.
  - 1.3.15. INSTALL EQUIPMENT PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.
  - 1.3.16. REMOVE EXCESS MATERIAL, SCRAP, ETC. FROM THE JOB SITE AND LEGALLY DISPOSE.
  - 1.3.17. PLUMBING CONTRACTOR SHALL VERIFY EXISTING SEWER LOCATION, SIZE AND ELEVATION AND SHALL VERIFY THAT PROPER SLOPES ARE AVAILABLE BEFORE INSTALLING NEW SEWER PIPING.
  - 1.3.18. MAINTAIN A MINIMUM SLOPE OF 1/8" PER FOOT FOR SANITARY SEWER PIPING 4" AND LARGER AND 1/4" PER FOOT FOR PIPING SMALLER THAN 4."
  - 1.3.19. SANITARY SEWER PIPING SHALL BE TYPE PVC SCHEDULE 40 -PLASTIC PIPE AND FITTINGS U.O.N.
  - 1.3.20. PROVIDE STOPS FOR ALL PLUMBING FIXTURE CONNECTIONS.
  - 1.3.21. WATER PIPING SHALL BE STERILIZED IN ACCORDANCE WITH THE AMERICAN WATER WORKS ASSOCIATION AWA 601 AND AS REQUIRED BY THE LOCAL HEALTH BOARD.
  - 1.3.19. WATER PIPING SHALL BE STERILIZED IN ACCORDANCE WITH THE AMERICAN WATER WORKS ASSOCIATION AWA 601 AND AS REQUIRED BY THE LOCAL HEALTH BOARD.
  - 1.3.20. COORDINATE ALL FIRE STOPPING REQUIREMENTS WITH THE ARCHITECTURAL PLANS.

## 1.4. OPERATIONS AND INSTALLATION

- 1.4.1. ALL DELIVERIES TO COINCIDE WITH CONSTRUCTION SCHEDULE. MATERIALS SHALL BE STORED WHERE AND/OR AS DIRECTED BY THE OWNER. STORAGE MUST BE IN SUCH A PLACE AS TO AVOID ACCIDENTAL MUTILATION BY EQUIPMENT BY ANY CONTRACTOR WHILE PERFORMING THEIR WORK, WHETHER ON SITE OR OFF.
- 1.4.2. ALL UNDER FLOOR PIPING SHALL BE INSTALLED IN CONJUNCTION WITH THE GENERAL CONTRACTORS WORK SCHEDULE. NO UNDERGROUND WORK SHALL BE COVERED OR ENCLOSED UNTIL IT HAS BEEN INSPECTED AND TESTED.
- 1.4.3. PLUMBING CONTRACTOR SHALL DO THE NECESSARY TRENCHING, SHORING AND BACKFILLING REQUIRED TO FULFILL HIS CONTRACT. BOTTOMS OF TRENCHES SHALL BE CUT

- 1.4.4. TO GRADE.  
ALL OPENINGS AND STUB-UP FOR PLUMBING PIPING AND FIXTURES SHALL BE CAREFULLY LOCATED AND COORDINATED WITH THE EQUIPMENT BEING SERVED, EXISTING CONDITIONS, AND ALL OTHER TRADES, REFER TO ARCHITECTURAL DRAWINGS FOR ACTUAL FIXTURE LOCATIONS.

## 1.5. CODE AND PERMIT REQUIREMENTS

- 1.5.1. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE LOCAL LAWS, REGULATIONS, ORDINANCES, STATUTES, AND CODES, WHICH SHALL BE DELINEATED, AND ALL MODIFICATIONS REQUIRED BY THE INSPECTION AUTHORITIES SHALL BE MADE BY PLUMBING CONTRACTOR WITHOUT ADDITIONAL COST TO OWNER.
- 1.5.2. PLUMBING CONTRACTOR SHALL OBTAIN, PAY FOR AND FURNISH ALL PERMITS REQUIRED BY LOCAL OR STATE ORDINANCES OR CODES, OR THE AUTHORITY HAVING JURISDICTION.

## 2. MATERIALS

### 2.1. DOMESTIC WATER PIPING:

- 2.1.0.1. VALVES SHALL BE OF ONE MANUFACTURER 125 PSI SWP, BRASS BODY THREADED OR SOLDERED END, AS MANUFACTURED BY CRANE, POWELL, JENKINS OR ACCEPTED EQUIVALENT AND SHALL BE INSTALLED WITH STEM UPRIGHT OR HORIZONTAL. WHEN VALVES ARE NOT SHOWN IN DETAIL ON THE PLANS, IT SHALL BE UNDERSTOOD THAT THE PLUMBING CONTRACTOR SHALL PROVIDE ALL VALVES AND FITTINGS NECESSARY FOR THE CONTROL AND OPERATION OF ALL EQUIPMENT. ALL SHUT-OFF AND SYSTEM DRAIN VALVES SHALL BE FULL PORT BALL VALVES.
- 2.1.1. ABOVE AND BELOW GRADE WATER PIPING SHALL BE PEX TUBING CONFORMING TO ASTM F877 CROSS-LINKED POLYETHYLENE TUBING HOT AND COLD WATER DISTRIBUTION SYSTEMS, ASTM F876 CROSS-LINKED POLYETHYLENE TUBE ASTM F876 FITTING AND ASTM F2159 FITTINGS, COMPLY WITH NSF STANDARD 14 AND 61. PEX TUBING SHALL BE WATTS WATER PEX CROSS-LINKED POLYETHYLENE OR EQUAL. ALL PEX TUBING BELOW GRADE SHALL BE SLEEVED WITH PVC PIPE.
  - 2.1.1.1. FITTINGS: FITTINGS SHALL BE MECHANICAL CRIMP FITTINGS IN COMPLIANCE WITH ASTM F1807 AND F2159. PEX FITTINGS SHALL BE WATTS BRASS CRIMPING FITTINGS USING EITHER WATTS COPPER CRIMPING OR STAINLESS STEEL CINCHCLAMP OR EQUAL. INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
- 2.1.2. PROVIDE SYSTEM DRAINS AT ALL LOW POINTS. SLOPE ALL PIPING TOWARDS LOW POINT DRAINS. LOW POINT DRAINS SHALL CONSIST OF A TEE IN MAIN PIPE WITH A REDUCER AND A 1/2" BALL VALVE AND HOSE CONNECTION.
- 2.1.3.

### 2.2. SOIL, WASTE AND VENT PIPES:

- 2.2.1. ABOVE AND BELOW GRADE SOIL, WASTE AND VENT PIPING SHALL BE PVC PLASTIC, SCHEDULE 40 DWV PIPE CONFORMING TO ASTM D2665 WITH PLAIN ENDS. CELLULAR (FOAM) CORE PVC IS NOT ALLOWED. INSTALL PER ASTM D665 AND ASTM D2321.
  - 2.2.1.1. FITTINGS SHALL BE PVC SOCKET-TYPE DWV PIPE FITTINGS; ASTM D2665 MADE TO ASTM D3311 DRAIN, WASTE AND VENT PATTERNS.
- 2.2.2. ABOVE GRADE SOIL, WASTE AND VENT PIPING SHALL BE ALLOWED TO BE COPPER DRAINAGE TUBING CONFORMING TO ASTM B306 AT PLUMBING CONTRACTOR'S OPTION, OR NO HUB CAST IRON WITH RUBBER COMPRESSION FITTINGS.

### 2.3. FLASHING:

- 2.3.1. SHEET LEAD. 4 POUNDS PER SQUARE FOOT, MINIMUM.

### 2.4. INSULATION:

- 2.4.1. DOMESTIC COLD WATER (WITHIN BUILDING):
  - 2.4.1.1. PEX TUBING: NO INSULATION REQUIRED. EXCEPTION: FOR NON-RECIRCULATING HOT WATER SYSTEM, PROVIDE 1/2" WALL ONE-PIECE FIBERGLASS COVERING HAVING A CONDUCTIVITY NOT EXCEEDING 0.27 WITH FIRE RESISTANT JACKET WITH SELF -SEALING LAP TO PROVIDE A CONTINUOUS VAPOR BARRIER BY CERTAINTeed, OWENS-CORING OR ARMSTRONG IN THE FIRST 8 FEET OF INLET PIPING AT WATER HEATER. CPVC TUBING: NO INSULATION REQUIRED.
- 2.4.2. DOMESTIC HOT WATER:
  - 2.4.2.1. PEX TUBING: 1/2" WALL ONE-PIECE FIBERGLASS COVERING HAVING A CONDUCTIVITY NOT EXCEEDING 0.27 WITH FIRE RESISTANT JACKET WITH SELF -SEALING LAP TO PROVIDE A CONTINUOUS VAPOR BARRIER BY CERTAINTeed, OWENS-CORING OR ARMSTRONG. (SEE BELOW FOR PLUMBING FITTING INSULATION REQUIREMENTS.
  - 2.4.2.2. FOR HOT WATER PIPING BEING SERVED BY SYSTEM WITH RECIRCULATING PUMP, PROVIDE 1" WALL ONE-PIECE FIBERGLASS COVERING HAVING A CONDUCTIVITY NOT EXCEEDING 0.27 WITH FIRE RESISTANT JACKET WITH SELF -SEALING LAP TO PROVIDE A CONTINUOUS VAPOR BARRIER BY CERTAINTeed, OWENS-CORING OR ARMSTRONG. (SEE BELOW FOR PLUMBING FITTING INSULATION REQUIREMENTS)
- 2.4.3. INDIRECT AND CONDENSATE DRAIN PIPING (WITHIN BUILDING):
  - 2.4.3.1. PVC PIPING: NO INSULATION REQUIRED FOR CONDENSATE PIPING. FOR PIPING AT HANGERS, PROVIDE 8"LONG SECTIONS OF HIGH DENSITY, HIGH TEMPERATURE CALCIUM SILICATE BY JOHNS-MANVILLE, FIBERGLASS BY KNAUF, OR 8" LONG STYROFOAM BILLETS BY DOW. INSULATION SHALL BE CONTINUOUS ALONG THE PIPE SURFACE, EXCEPT AT VALVES, UNIONS, AND WHERE PIPING IS EXPOSED AT FIXTURES.
- 2.4.4. FOR HOT AND COLD WATER PIPING EXPOSED, CONCEALED IN WALLS, AND/OR INSTALLED INSIDE MASONRY UNITS OF THE WALLS, COVER FITTINGS WITH ZESTON, KNAUF, OR EQUAL ON-PIECE PVC PREMOLDED INSULATING COVERS. FITTING COVERS, JACKETS AND ADHESIVES SHALL NOT EXCEED FLAME SPREAD RATING OF 25 AND SMOKE DEVELOPMENT RATING OF 50 PER ASTM E84. AT ALL ELBOWS AND TEE'S., FILL VOIDS BETWEEN COVERS AND PIPING WITH FIBERGLASS INSULATION AND TAPE JOINTS, INSTALL PIPE INSULATION IN COMPLIANCE WITH MANUFACTURER'S RECOMMENDATIONS. WHERE PREMOLDED INSULATION FITTINGS ARE NOT APPROVED BY LOCAL AUTHORITIES, MITER INSULATION AT FITTINGS.

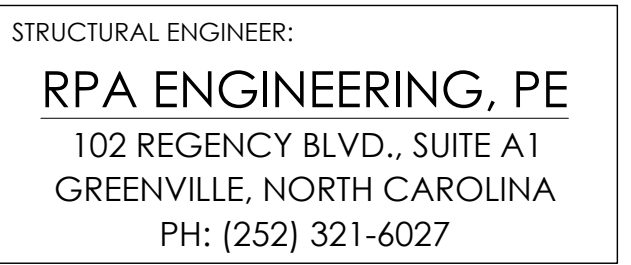
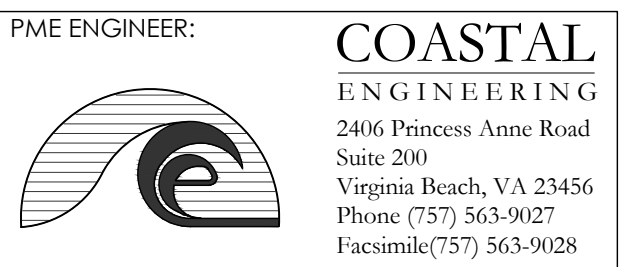
## 3. TESTING AND INSPECTION:

- 3.1. THE ENTIRE PLUMBING SYSTEM SHALL BE TESTED BEFORE COVERING OR ENCLOSING.
- 3.2. INSPECTION: WORK SHALL BE INSPECTED FOR COMPLIANCE WITH CODES, ORDINANCES, REGULATIONS AND ADHERENCE TO CONTRACT DOCUMENTS. PLUMBING CONTRACTORS SHALL SUPPLY OWNER WITH SIGNED FORMS OR PROOF OF ACCEPTANCE BY THE LOCAL AUTHORITY BEFORE CONTINUING FROM ONE STAGE TO ANOTHER. FINAL APPROVAL SHALL BE OBTAINED BEFORE FINAL PAYMENT IS MADE ON THE CONTRACT.
- 3.3. PERFORMANCE REQUIRED:

- 3.3.1. PLUMBING CONTRACTOR SHALL INSTALL ALL PLUMBING SYSTEMS LEAK FREE AND AS PER PLANS AND SPECIFICATIONS.
- 3.3.2. ALL EXPOSED EQUIPMENT SHALL BE INSTALLED IN A WORKMANLIKE MANNER AND WILL BE SUBJECT TO ARCHITECTURAL INSPECTION FOR AESTHETIC APPEARANCE.

## 4. CUTTING AND CLEANING:

- 4.1. PLUMBING CONTRACTOR SHALL CLEAN ENTIRE SITE OF DEBRIS, TOOLS AND EQUIPMENT RELATED TO THIS WORK
  - 4.2. PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CUTTING AND PATCHING OF HIS WORK WHICH MAY BE REQUIRED TO RELIEVE THE WORK OF OTHER CONTRACTORS.
5. WARRANTY:
- 5.1. PLUMBING CONTRACTOR SHALL WARRANTY ALL OF THE WORK AND THE COMPLETE OPERATION WILL BE FREE FROM DEFECTS IN WORKMANSHIP AND MATERIALS. CONTRACTOR AGREES TO REPLACE, WITHOUT EXPENSE TO THE OWNER, ANY PART OF HIS WORK ON THIS INSTALLATION WITH PROVES TO BE DEFECTIVE WITHIN (1) YEAR AFTER ACCEPTANCE OF THE WORK AT NO ADDITIONAL COST TO THE OWNER.



PROJECT NAME:  
**ATTENDANT  
BUILDING**  
North Boyd  
Beaufort County  
North Carolina

REVISIONS:	DATE:
ISSUED FOR BID	3 / 30 / 26

DRAWING NAME:  
**PLUMBING  
SPECIFICATIONS**

**ISSUED FOR  
BID**

DRAWN BY: LKK

DATE: 03/30/2026

SCALE: NONE



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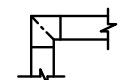
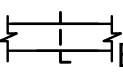
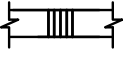
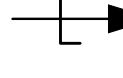
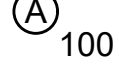
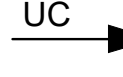



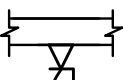
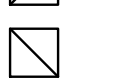
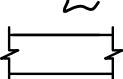


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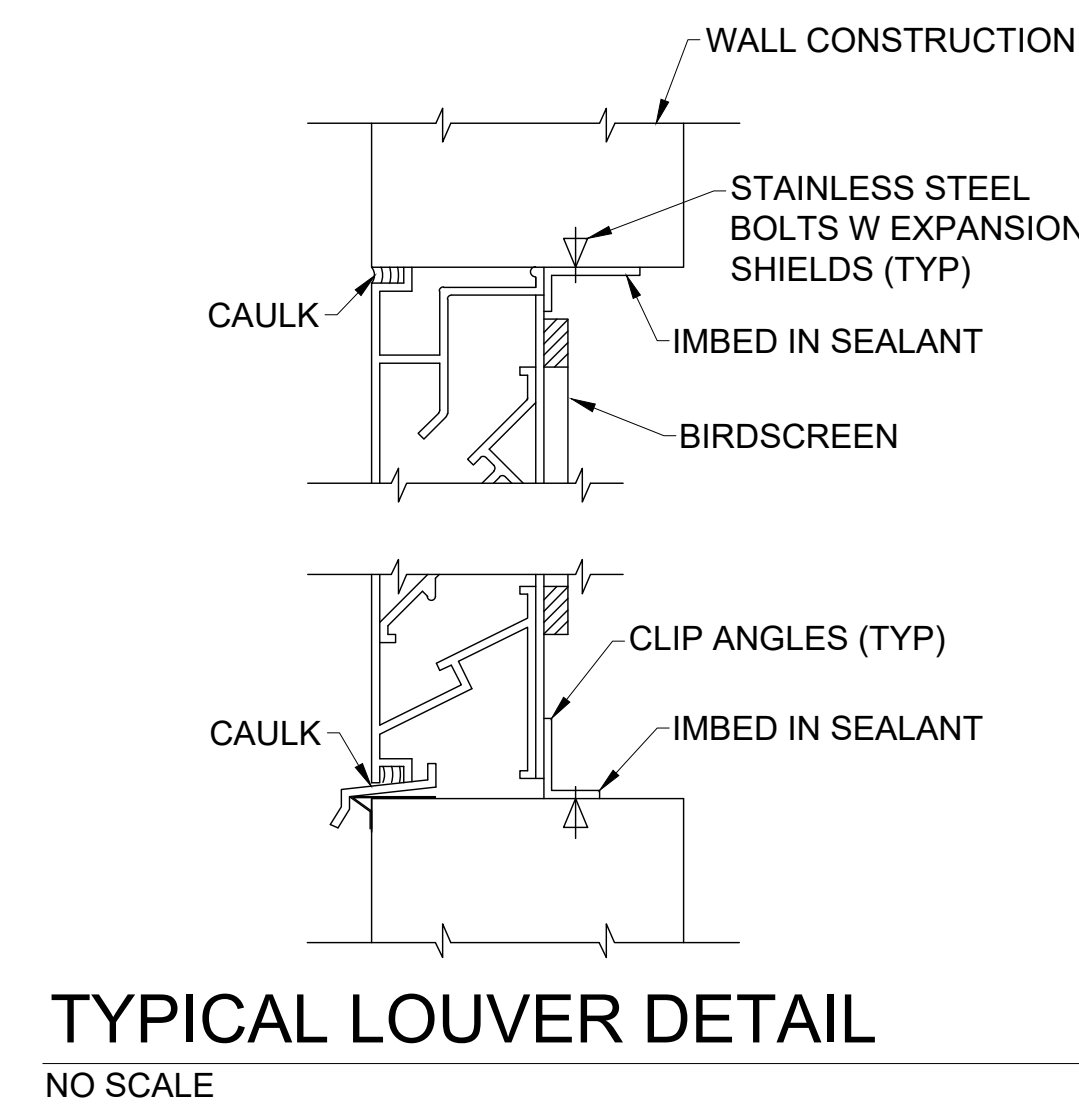
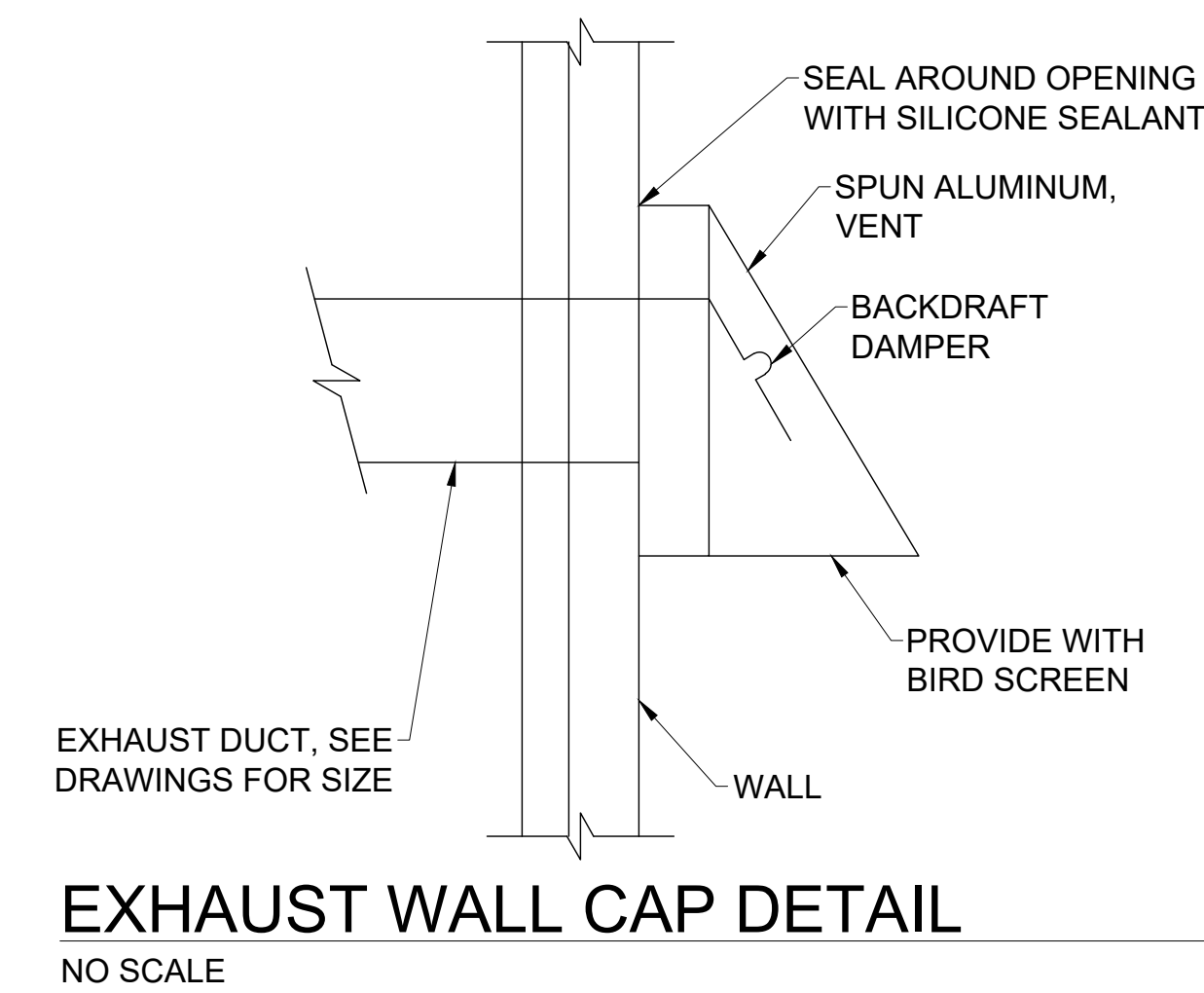
## GENERAL NOTES

- SCOPE OF WORK INCLUDES PROVIDING A FIRST CLASS WORKING SYSTEM IN COMPLIANCE WITH THESE DRAWINGS AND SPECIFICATIONS, TESTED READY FOR OPERATION COMPLETE WITH LABOR, MATERIALS, APPARATUS, TRANSPORTATION, AND TOOLS REQUIRED FOR THE INSTALLATION.
- COORDINATE WORK WITH THAT OF OTHER TRADES. SEE ARCHITECTURAL REFLECTED CEILING PLANS FOR THE EXACT LOCATIONS OF CEILING MOUNTED DEVICES.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR MODIFICATIONS, CHANGES, ETC. FOR THE EQUIPMENT HE PROVIDES, EVEN IF APPROVED AS AN EQUAL.
- MISCELLANEOUS ITEMS NOT SHOWN ON THE PLANS BUT NECESSARY FOR A COMPLETE OPERABLE SYSTEM, SHALL BE SUPPLIED AND INSTALLED.
- INSTALL EQUIPMENT PER MANUFACTURER'S INSTALLATION INSTRUCTIONS. MAINTAIN ALL RECOMMENDED CLEARANCES.
- REMOVE EXCESS MATERIAL, SCRAP, ETC. FROM THE JOB SITE.
- REPAIR ANY MATERIAL OR WORK WHICH HE HAS DAMAGED.
- BALANCE AIR AND WATER SYSTEMS WITHIN  $\pm 10\%$  OF THE VALUES INDICATED.
- TEST THE ENTIRE SYSTEM IN ALL MODES OF OPERATION TO INSURE PROPER OPERATION.
- FURNISH AND INSTALL ALL EQUIPMENT AND MATERIALS FOR A COMPLETE INSTALLATION IN ALL RESPECTS READY OF INTENDED USE AND IN STRICT ACCORDANCE WITH ALL STATE AND LOCAL CODES AND MANUFACTURER'S RECOMMENDATIONS. PAY NECESSARY FEES AND OBTAIN PERMITS. INITIATE, MAINTAIN AND SUPERVISE ALL SAFETY PRECAUTIONS AND PROCEDURES.
- ALL INDICATED DUCT DIMENSIONS ARE INSIDE CLEAR DIMENSIONS.

## LEGEND

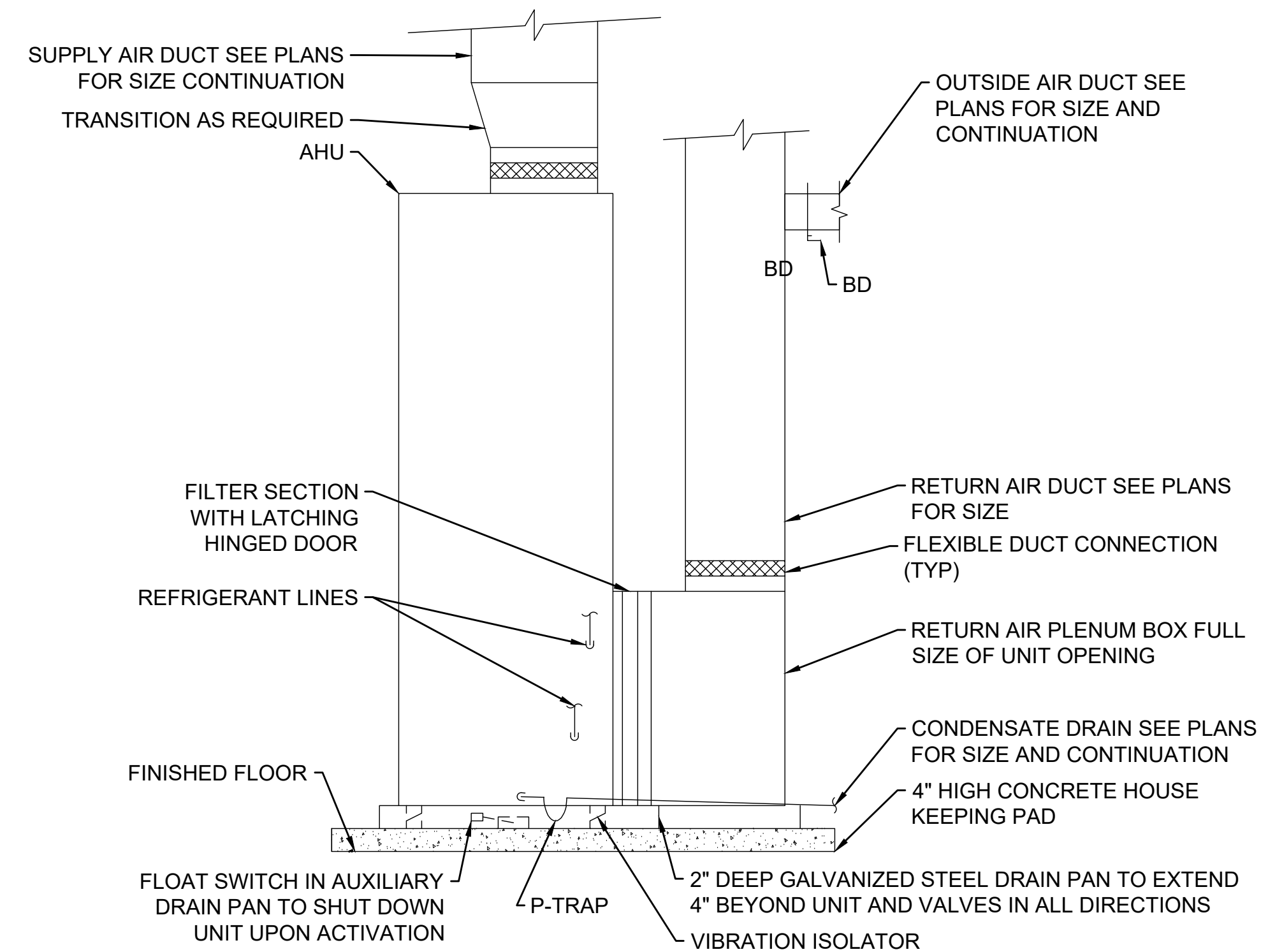
NOTE: HEAVY LINE WEIGHT INDICATES NEW EQUIPMENT OR EQUIPMENT TO BE REMOVED, LIGHT LINE WEIGHT INDICATES EQUIPMENT WHICH IS EXISTING TO REMAIN

EF-1	EXHAUST FAN MARK - SEE SCHEDULE		ELBOW WITH TURNING VANES
AHU-1	AIR HANDLING UNIT MARK - SEE SCHEDULE		MANUAL BALANCING DAMPER WITH LOCKING QUADRANT
L-1	LOUVER MARK - SEE SCHEDULE		FLEXIBLE DUCT CONNECTION
HP-1	HEAT PUMP UNIT MARK - SEE SCHEDULE		DOOR LOUVER - SEE SCHEDULE PROVIDED BY G.C.
	GRILLE OR DIFFUSER MARK - SEE SCHEDULE OR SPECIFICATION (CFM NOTE)		UNDER CUT DOOR MIN. 1" / SEE ARCH. PLANS FOR SIZES
	NEW WORK NOTE MARK		(AD) ACCESS DOOR
	SUPPLY DUCT SECTION		FLEXIBLE DUCT CONNECTION WITH BALANCING DAMPER
	EXHAUST DUCT SECTION		LOW PRESSURE SUPPLY OR RETURN DUCT WORK
	RETURN DUCT SECTION		THERMOSTAT/SENSOR MOUNT 48" ABOVE FLOOR SUBSCRIPT INDICATES EQUIPMENT BEING CONTROLLED



## ABBREVIATIONS

Z	ANGLE	L-1	LOUVER MARK - SEE SCHEDULE
AD	ACCESS DOOR	LAT	LEAVING AIR TEMPERATURE
AFF	ABOVE FINISHED FLOOR	LBS/HR	POUND PER HOUR
AFG	ABOVE FINISHED GRADE	LDB	LEAVING DRY BULB
APD	AIR PRESSURE DROP	LWB	LEAVING WET BULB
APPROX	APPROXIMATELY	LWT	LEAVING WATER TEMPERATURE
AS-1	AIR SEPARATOR MARK - SEE SCHEDULE	MAX	MAXIMUM
BD	BALANCING DAMPER	MOCP	MAXIMUM OVER CURRENT PROTECTION
BDD	BACK DRAFT DAMPER	MIN	MINIMUM
BTUH	BRITISH THERMAL UNIT PER HOUR	MBH	THOUSAND BTU/HR
CFH	CUBIC FEET PER HOUR	MCA	MINIMUM CIRCUIT AMPS
CFM	CUBIC FEET PER MINUTE	MFS	MAXIMUM FUSE SIZE
CHLR-1	CHILLER MARK - SEE SCHEDULE	NOM	NOMINAL
COP	COEFFICIENT OF PERFORMANCE	NO	NUMBER
CP-1	CONDENSATE PUMP MARK - SEE SCHEDULE	OA	OUTSIDE AIR
CU-1	CONDENSING UNIT MARK - SEE SCHEDULE	OD	OUTSIDE DIAMETER
CWR	CHILLED WATER RETURN	PD	PRESSURE DROP
CWS	CHILLED WATER SUPPLY	PH	PHASE
DN	DOWN	PSIG	POUNDS PER SQUARE INCH GAGE
EAT	ENTERING AIR TEMPERATURE	%RH	PERCENT RELATIVE HUMIDITY
EDB	ENTERING DRY BULB	PRV	PRESSURE RELIEF VALVE
EMD	END OF MAIN DRIP	RA	RETURN AIR
EWB	ENTERING WET BULB	RBJ	RUN BETWEEN JOIST
EWT	ENTERING WATER TEMPERATURE	RIH-1	ROOF INTAKE HOOD MARK - SEE SCHEDULE
ESP	EXTERNAL STATIC PRESSURE	RLA	RATED LOAD AMPS
EXIST	EXISTING	RPM	REVOLUTIONS PER MINUTE
FD	FIRE DAMPER WITH ACCESS DOOR	RTJ	RUN THRU JOIST
FDB	DEGREE FAHRENHEIT DRY BULB	SA	SUPPLY AIR
FF	FINISHED FLOOR	SCT	SATURATED CONDENSING TEMPERATURE
FPM	FEET PER MINUTE	SEER	SEASONAL ENERGY EFFICIENCY RATING
FT	FEET	SF	SQUARE FEET
FWB	DEGREE FAHRENHEIT WET BULB	SP	STATIC PRESSURE
GA	GAUGE	SST	SATURATED SUCTION TEMPERATURE
GPH	GALLONS PER HOUR	TS	TIP SPEED
GPM	GALLONS PER MINUTE	T'STAT	THERMOSTAT
"HG	INCHES OF MERCURY	TYP	TYPICAL
HP	HORSE POWER	UH-1	UNIT HEATER MARK - SEE SCHEDULE
HWC	HOT WATER CONVERTER MARK - SEE SCHEDULE	VAV-1	VARIABLE AIR VOLUME UNIT AND MARK - SEE SCHEDULE
HWR	HOT WATER RETURN	"WC	INCHES WATER COLUMN
HWS	HOT WATER SUPPLY	WPD	WATER PRESSURE DROP
ID	INSIDE DIAMETER		
KW	KILOWATT		



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PROJECT NAME:  
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North Boyd  
Beaufort County  
North Carolina

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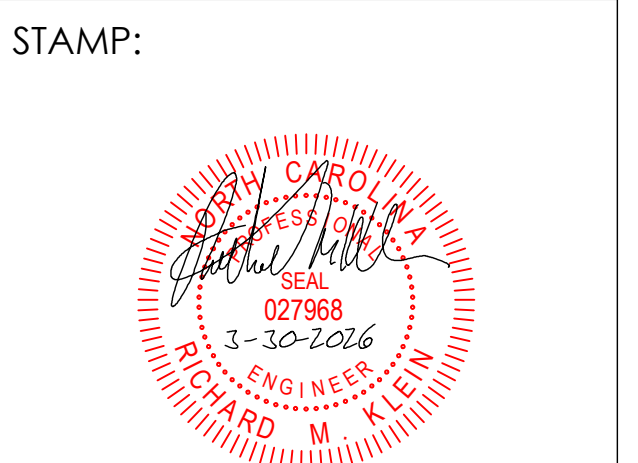
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NOTES, LEGEND,  
ABBREVIATIONS,  
SCHEDULE AND DETAILS

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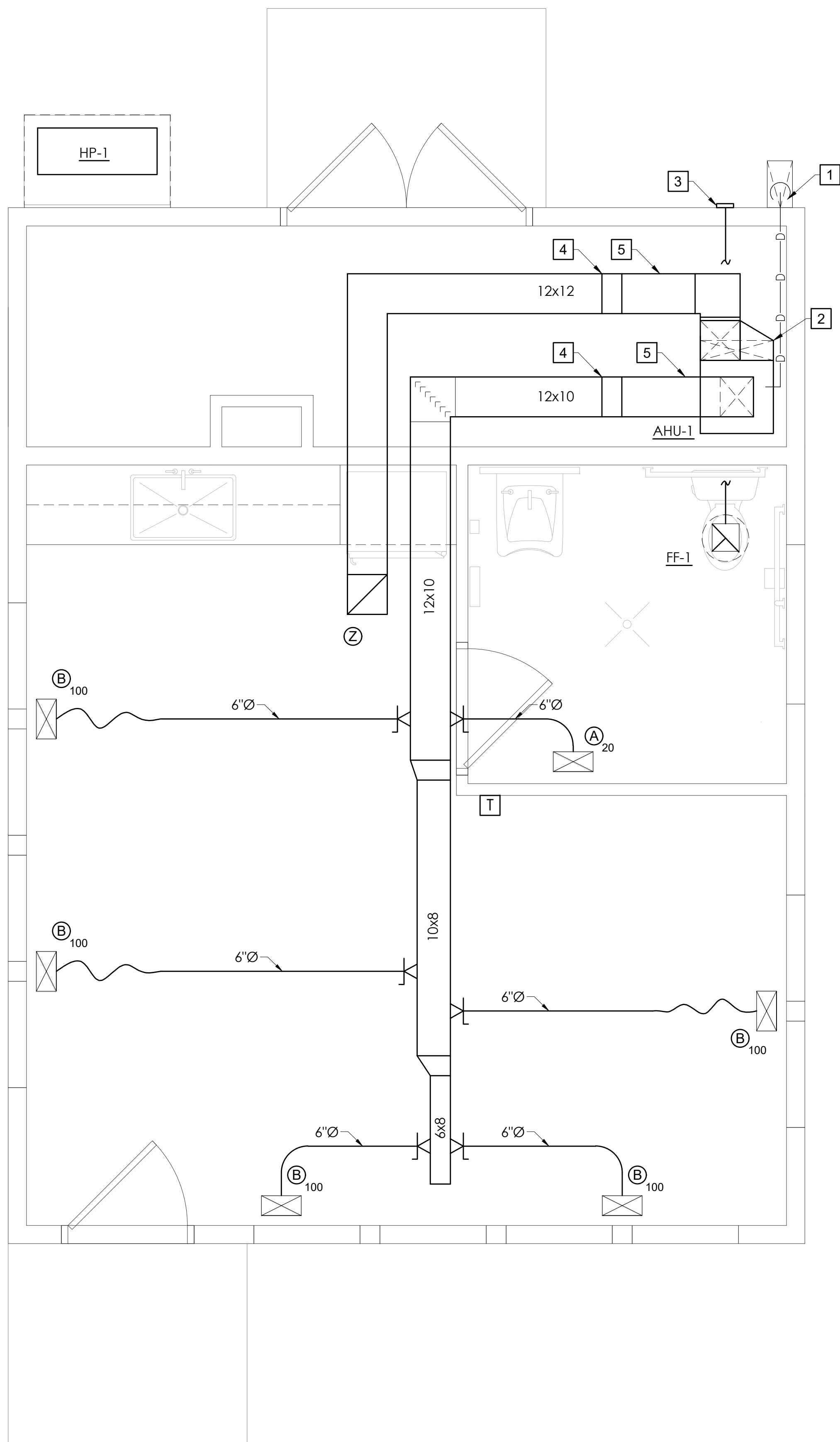
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**NEW WORK NOTES:** (THIS SHEET ONLY)

- 1 3/4" CONDENSATE RUN OUT THROUGH WALL AND SPILL ON SPLASH BLOCK.
- 2 18x8 RA UP, TRANSITION AS HIGH AS POSSIBLE TO 12x12.
- 3 6" Ø EXHAUST DUCT, BROKEN FOR CLARITY OUT THROUGH REAR WALL TO WALL CAP.
- 4 SLOPE DUCT UP TO ABOVE BOTTOM CORD OF ROOF TRUSS AS SOON AS POSSIBLE.
- 5 RUN DUCT AS HIGH AS POSSIBLE BEFORE TRANSITIONING TO ABOVE STRUCTURE.

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DRAWING NAME:  
 FLOOR PLAN  
 NEW WORK

**ISSUED FOR BID**

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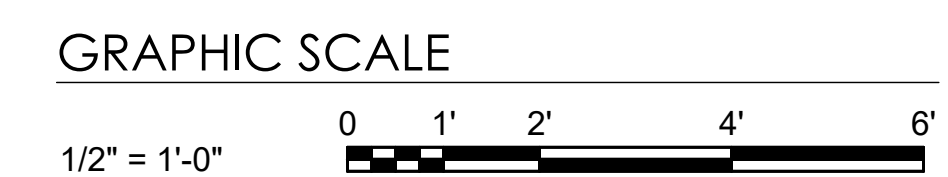
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SCALE: 1/4" = 1'-0"



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## SPLIT SYSTEM HEAT PUMP SCHEDULE

### INDOOR UNIT

MARK	MANUFACTURER/ MODEL	FAN DATA				COOLING CAPACITY				HEATING CAPACITY			ELECTRIC HEATER			ELECTRIC SERVICE				REMARKS			
		AIR FLOW CFM	OA CFM	ESP "WC	MOTOR HP	TOTAL MBH	SENSIBLE MBH	EAT		LAT		TOTAL MBH	EAT °FDB	LAT °FDB	KW	MBH	NO. STAGES	TOTAL FLA	MCA		MCOP	VOLTS	PH
								°FDB	°FWB	°FDB	°FWB												
AHU-1	TRANE / PVA-AA 18NL	520	30	0.5	121(W)	16.5	14.0	76.6	62.4	57.6	57.0	12.5	67.0	85.7	3.0	-	-	.53	3	-	240	1	1,2,3,4

**NOTES:**

- 1 PROVIDE WITH PROGRAMMABLE WALL MOUNTED STAND ALONE THERMOSTAT.
- 2 PROVIDE WITH AUXILIARY DRAIN PAN WITH A FLOAT SWITCH TO SHUT DAWN THE UNIT UPON ACTIVATION
- 3 PROVIDE FOR SINGLE POINT CONNECTION
- 4 INDOOR UNIT FED FROM OUTDOOR UNIT.
- 5 PROVIDE WITH 3 KW AUXILIARY ELECTRIC HEATING COIL.

### OUTDOOR UNIT

MARK	MANUFACTURER / MODEL	SERVES	COOLING CAPACITY MBH	MIN SEER2	HEATING CAPACITY MBH	MIN COP	REFRIGERANT TYPE	NUMBER OF COMPRESSORS	ELECTRIC SERVICE					REMARKS
									TOTAL FLA	MCA	MOCP	VOLTS	PH	
HP-1	TRANE / PUZ-AK18NL	AHU-1	16.5	18.6	12.5	3.4	R454B	(1) INVERTER	12.8	16.0	27	240	1	1,2,3,4,5

**NOTES:**

- 1 COOLING CAPACITY BASED ON 95° FDB AMBIENT TEMPERATURE.
- 2 HEATING CAPACITY BASED ON 47° FDB AMBIENT TEMPERATURE.
- 3 PROVIDE WITH REFRIGERANT LINE KIT SIZED BY THE MANUFACTURERS FOR THE ACTUAL LENGTH AND ELEVATION CHANGES.
- 4 PROVIDE WITH HARD WIRED, WALL MOUNTED THERMOSTAT.
- 5 PROVIDE WITH HAIL GUARD.

### GRILLE REGISTER & DIFFUSER SCHEDULE

MARK	MANUFACTURER/ MODEL	TYPE	SERVICE	NECK SIZE INCHES	APD "WC	NOISE CRITERIA (NC)	MATERIALS	REMARKS
A	ANEMOSTAT / MODEL 25	DOUBLE DEFLECTION	CEILING SUPPLY	6"Ø	0.5	15	ALUMINUM	1, 2, 3
B	ANEMOSTAT / MODEL 25	DOUBLE DEFLECTION	CEILING SUPPLY	8"Ø	0.5	15	ALUMINUM	1, 2, 3
C	ANEMOSTAT / MODEL 25 / EPLA	SQR-CONE ADJUSTABLE	CEILING SUPPLY	14"Ø	0.5	15	ALUMINUM	1, 2, 3
Z	ANEMOSTAT/ MODEL 30	LOUVERED RETURN	CEILING SUPPLY	12x12	0.2	20	ALUMINUM	1, 2, 3

**NOTES:**

- 1 FOR SURFACE MOUNT APPLICATION.
- 2 COLOR TO BE WHITE.
- 3 3/4" BLADE SPACING, 0° DEFLECTION, BLADES PARALLEL TO THE CEILING
- 4 PROVIDE WITH INSULATED BOOT PLENUM TO TRANSITION FROM ROUND TO GRILL FLANGE SIZE. SEE PLANS FOR DUCT SIZES

### EXHAUST FAN SCHEDULE

MARK	MANUFACTURER/ MODEL	TYPE	CFM	SP "H20	FAN RPM	MAX TS MPH	MOTOR HP	VOLTS	PH	MOTOR CONTROL		REMARKS
										SIZE	TYPE	
EF-1	COOK / GC-148	CEILING CABINET	70	.375	807	18	33.5 WATTS	120	1			1,2,3,4

**NOTES:**

- 1 PROVIDE WITH WALL CAP WITH BIRD SCREEN AND BACK DRAFT DAMPER.
- 2 PROVIDE WITH INTEGRAL BACKDRAFT DAMPER.
- 3 CONTROL WITH ROOM LIGHT SWITCH.
- 4 PROVIDE WITH WHITE FACE GRILLE AND SPEED CONTROLLER LOCATED AT THE FAN FOR BALANCING, WALL CAP WITH BIRD SCREEN AND BACK DRAFT DAMPER.

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DRAWING NAME:  
**MECHANICAL  
SCHEDULES**

**ISSUED FOR  
BID**

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# MECHANICAL SPECIFICATIONS:

## 1. GENERAL

### 1.1. GENERAL REQUIREMENTS:

- 1.1.1. REQUIREMENTS UNDER DIVISION ONE AND THE GENERAL AND SUPPLEMENTARY CONDITIONS OF THESE SPECIFICATIONS SHALL BE A PART OF THIS SECTION. EACH CONTRACTOR SHALL BECOME THOROUGHLY ACQUAINTED WITH ITS CONTENTS AS TO REQUIREMENTS THAT AFFECT THIS DIVISION OR SECTION. THE WORK REQUIRED UNDER THIS SECTION INCLUDES MATERIAL, EQUIPMENT, APPLIANCES, TRANSPORTATION, SERVICES, AND LABOR REQUIRED TO COMPLETE THE ENTIRE SYSTEM AS REQUIRED BY THE DRAWINGS AND SPECIFICATIONS.
- 1.1.2. THE SPECIFICATIONS AND DRAWINGS FOR THE PROJECT ARE COMPLEMENTARY, AND PORTIONS OF THE WORK DESCRIBED IN ONE, SHALL BE PROVIDED AS IF DESCRIBED IN BOTH. IN THE EVENT OF DISCREPANCIES, NOTIFY THE ENGINEER AND/OR OWNER AND REQUEST CLARIFICATION PRIOR TO PROCEEDING WITH THE WORK INVOLVED.
- 1.1.3. CONTRACTOR TO ELECTRONICALLY SUBMIT SPECIFICATIONS AND DETAIL FOR EQUIPMENT AND FABRICATED MATERIALS FOR OWNER'S APPROVAL PRIOR TO ISSUING PURCHASE ORDER OWNERS WILL RETURN WITH ACTION TAKEN NOTED. OWNER'S APPROVAL DOES NOT RELIEVE CONTRACTOR OF ANY RESPONSIBILITY FOR PERFORMANCE AND OPERATION.

### 1.4. INSPECTION OF THE SITE:

- 1.4.1. PRIOR TO SUBMITTING BID, THE CONTRACTOR SHALL VISIT THE SITE OF THE PROPOSED WORK AND BECOME FULLY INFORMED AS TO THE CONDITIONS UNDER WHICH THE WORK IS TO BE DONE. FAILURE TO DO SO WILL NOT BE CONSIDERED SUFFICIENT JUSTIFICATION TO REQUEST OR OBTAIN EXTRA COMPENSATION OVER AND ABOVE THE CONTRACT PRICE.

### 1.5. MATERIAL AND WORKMANSHIP:

- 1.5.1. PROVIDE NEW MATERIAL, EQUIPMENT, AND APPARATUS UNDER THIS CONTRACT UNLESS OTHERWISE STATED HEREIN, OF BEST QUALITY NORMALLY USED FOR THE PURPOSE IN GOOD COMMERCIAL PRACTICE, AND FREE FROM ANY DEFECTS. MODEL NUMBERS LISTED IN THE SPECIFICATIONS OR SHOWN ON THE DRAWINGS ARE NOT NECESSARILY INTENDED TO DESIGNATE THE REQUIRED TRIM, WRITTEN DESCRIPTIONS OF THE TRIM GOVERN MODEL NUMBERS.
- 1.5.2. WORK PERFORMED UNDER THIS CONTRACT SHALL PROVIDE A NEAT AND "WORKMANLIKE" APPEARANCE WHEN COMPLETED, TO THE SATISFACTION OF THE ARCHITECT AND ENGINEER. WORKMANSHIP SHALL BE THE FINEST POSSIBLE BY EXPERIENCED MECHANICS. INSTALLATIONS SHALL COMPLY WITH APPLICABLE CODES AND LAWS.
- 1.5.3. THE COMPLETE INSTALLATION SHALL FUNCTION AS DESIGNED AND INTENDED WITH RESPECT TO EFFICIENCY, CAPACITY, NOISE LEVEL, ETC. ABNORMAL NOISE CAUSED BY VIBRATING EQUIPMENT, PIPING, DUCTS, AIR DEVICES, AND SQUEAKS IN ROTATING COMPONENTS WILL NOT BE ACCEPTABLE. IN GENERAL, MATERIALS AND EQUIPMENT SHALL BE OF COMMERCIAL SPECIFICATION GRADE IN QUALITY. LIGHT DUTY AND RESIDENTIAL TYPE EQUIPMENT WILL NOT BE ACCEPTABLE.
- 1.5.4. REMOVE FROM THE PREMISES WASTE MATERIAL PRESENT AS A RESULT OF WORK, INCLUDING CARTONS, CRATING, PAPER, STICKERS, AND/OR EXCAVATION MATERIAL NOT USED IN BACKFILLING, ETC. CLEAN EQUIPMENT INSTALLED UNDER THIS CONTRACT TO A NEW AND CLEAN CONDITION AT THE TERMINATION OF WORK.
- 1.5.5. REPAIR OR REPLACE PUBLIC AND PRIVATE PROPERTY DAMAGED AS A RESULT OF WORK PERFORMED UNDER THIS CONTRACT TO THE SATISFACTION OF OWNER, ENGINEER AND AUTHORITIES HAVING JURISDICTION.
- 1.5.6. MISCELLANEOUS ITEMS NOT SHOWN ON THE PLANS BUT NECESSARY FOR A COMPLETE OPERABLE SYSTEM, SHALL BE SUPPLIED AND INSTALLED.
- 1.5.7. CONTRACTOR SHALL FURNISH AND INSTALL ALL EQUIPMENT AND MATERIALS FOR A COMPLETE INSTALLATION IN ALL RESPECTS READY OF INTENDED USE AND THE STRICT ACCORDANCE WITH STATE AND LOCAL CODES AND MANUFACTURER'S RECOMMENDATIONS. PAY NECESSARY FEES AND OBTAIN PERMITS. INITIATE, MAINTAIN AND SUPERVISE ALL SAFETY PRECAUTIONS AND PROCEDURES.
- 1.5.8. EQUIPMENT AND MATERIALS SHALL BE OF THE TYPE, SIZE AND MANUFACTURERS INDICATED ON THE DRAWINGS OR AN APPROVED EQUIVALENT.
- 1.5.9. THE CONTRACTOR SHALL SUPPLY AND INSTALL THE MATERIALS AND EQUIPMENT COVERED BY THE PLANS AND SPECIFICATIONS TO THE OWNER COMPLETE AND IN FIRST CLASS CONDITION IN EVERY RESPECT. HE SHALL GUARANTEE THAT THE MATERIAL, EQUIPMENT, AND WORKMANSHIP SUPPLIED AND INSTALLED BY HIM SHALL BE ENTIRELY FREE FROM DEFECTS AND THAT HE WILL REPAIR OR REPLACE AT HIS OWN EXPENSE, ANY MATERIALS, EQUIPMENT, AND WORKMANSHIP IN WHICH DEFECTS ARE FOUND.

### 1.6. COORDINATION:

- 1.6.1. COORDINATE WORK WITH THAT OF OTHER TRADES SO THAT THE VARIOUS COMPONENTS OF THE SYSTEMS WILL BE INSTALLED AT THE PROPER TIME, WILL FIT THE AVAILABLE SPACE, AND WILL ALLOW PROPER SERVICE ACCESS TO THOSE ITEMS REQUIRING MAINTENANCE. COMPONENTS WHICH ARE INSTALLED WITHOUT REGARD TO THE ABOVE SHALL BE RELOCATED AT NO ADDITIONAL COST TO THE OWNER.
- 1.6.2. UNLESS OTHERWISE INDICATED, THE CONTRACTOR WILL PROVIDE CHASES AND OPENINGS IN BUILDING CONSTRUCTION REQUIRED FOR THE INSTALLATION OF THE SYSTEMS SPECIFIED HEREIN. MECHANICAL CONTRACTOR SHALL FURNISH THE GENERAL CONTRACTOR WITH THE INFORMATION WHERE CHASES AND OPENINGS ARE REQUIRED. COORDINATE HE WORK OF THE OTHER TRADES ENGAGED IN THE CONSTRUCTION OF THE PROJECT, AND EXECUTE WORK IN A MANNER AS TO NOT INTERFERE WITH OR DELAY THE WORK OF OTHER TRADES.
- 1.6.3. FIGURED DIMENSIONS SHALL BE TAKEN IN PREFERENCE TO SCALE DIMENSIONS. THE CONTRACTOR SHALL TAKE HIS OWN MEASUREMENTS AT THE BUILDING, AS VARIATIONS MAY OCCUR. THE CONTRACTOR WILL BE HELD RESPONSIBLE FOR ERRORS THAT COULD HAVE BEEN AVOIDED BY PROPER CHECKING AND INSPECTION.
- 1.6.4. PROVIDE MATERIALS WITH TRIM THAT WILL PROPERLY FIT THE TYPES OF CEILING, WALL, OR FLOOR FINISHES ACTUALLY INSTALLED. MODEL NUMBERS LISTED IN THE SPECIFICATIONS OR SHOWN ON THE DRAWINGS ARE NOT INTENDED TO DESIGNATE THE REQUIRED TRIM.
- 1.6.5. MECHANICAL CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR DUCTWORK LAYOUT TO THE CONSTRUCTION PROJECT MANAGER FOR OWNER APPROVAL PRIOR TO INSTALLATION.
- 1.6.6. CONTRACTOR TO SUBMIT 6 SETS (OWNER WILL RETURN 3 SETS NOTED WITH ACTION TAKEN) SPECIFICATIONS AND DETAIL FOR EQUIPMENT AND FABRICATED MATERIALS FOR OWNER'S APPROVAL PRIOR TO ISSUING PURCHASE ORDER. OWNER'S APPROVAL DOES NOT RELIEVE CONTRACTOR OF ANY RESPONSIBILITY FOR PERFORMANCE AND OPERATION.

### 1.7. ORDINANCES AND CODES:

- 1.7.1. WORK PERFORMED UNDER THIS CONTRACT SHALL, AT A MINIMUM, BE IN CONFORMANCE WITH APPLICABLE NATIONAL, STATE AND LOCAL CODES HAVING JURISDICTION. EQUIPMENT FURNISHED AND ASSOCIATED INSTALLATION WORK PERFORMED UNDER THIS CONTRACT SHALL BE IN STRICT COMPLIANCE WITH CURRENT APPLICABLE CODES ADOPTED BY THE LOCAL AUTHORITY HAVING JURISDICTION INCLUDING ANY AMENDMENTS AND STANDARDS AS SET FORTH BY THE NATIONAL FIRE PROTECTION ASSOCIATION (NFPA), UNDERWRITERS LABORATORIES (UL), OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA), AMERICAN SOCIETY OF MECHANICAL ENGINEERS (ASME), AMERICAN SOCIETY OF HEATING, REFRIGERATION, AND AIR CONDITIONING ENGINEERS (ASHRAE), AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI), AMERICAN SOCIETY OF TESTING MATERIALS (ASTM), AND OTHER NATIONAL STANDARDS AND CODES WHERE APPLICABLE. WHERE THE CONTRACT DOCUMENTS EXCEED THE REQUIREMENTS OF THEIR REFERENCED CODES, STANDARDS, ETC., THE CONTRACT DOCUMENTS SHALL TAKE PRECEDENCE.
- 1.7.2. PROCURE AND PAY FOR PERMITS AND LICENSES REQUIRED FOR THE ACCOMPLISHMENT OF THE WORK HEREIN DESCRIBED. WHERE REQUIRED, OBTAIN, PAY FOR AND FURNISH CERTIFICATES OF INSPECTION TO THE OWNER. THE CONTRACTOR WILL BE HELD RESPONSIBLE FOR VIOLATIONS OF THE LAW.

### 1.8. PROTECTION OF EQUIPMENT AND MATERIALS:

- 1.8.1. STORE AND PROTECT FROM DAMAGE EQUIPMENT AND MATERIALS DELIVERED TO JOB SITE. COVER

WITH WATERPROOF, TEAR-RESISTANT, HEAVY TARP OR POLYETHYLENE PLASTIC AS REQUIRED TO PROTECT FROM PLASTER, DIRT, PAINT, WATER, OR PHYSICAL DAMAGE. EQUIPMENT AND MATERIAL THAT HAS BEEN DAMAGED BY CONSTRUCTION ACTIVITIES WILL BE REJECTED, AND MECHANICAL CONTRACTOR IS OBLIGED TO FURNISH NEW EQUIPMENT AND MATERIAL OF A LIKE KIND AS APPROVED BY OWNER.

- 1.8.2. KEEP PREMISES ROOM CLEAN FROM FOREIGN MATERIAL CREATED DURING WORK PERFORMED UNDER THIS CONTRACT. PIPING, EQUIPMENT, ETC., SHALL HAVE A NEAT AND CLEAN APPEARANCE AT THE TERMINATION OF THE WORK.
- 1.8.3. PLUG OR CAP OPEN ENDS OF DUCTWORK AND PIPING SYSTEMS WHILE STORED OR INSTALLED DURING CONSTRUCTION WHEN NOT IN USE TO PREVENT THE ENTRANCE OF DEBRIS INTO THE SYSTEMS.

### 1.9. OPERATION AND MAINTENANCE INSTRUCTIONS:

- 1.9.1. COMPILE A COMPLETE BROCHURE OF FIXTURES, MATERIALS, AND EQUIPMENT FURNISHED AND INSTALLED ON THIS PROJECT. INCLUDE OPERATIONAL AND MAINTENANCE INSTRUCTIONS, MANUFACTURER'S CATALOG SHEETS, WIRING DIAGRAMS, PARTS LISTS, APPROVED SHOP DRAWINGS, AND DESCRIPTIVE LITERATURE FURNISHED BY THE MANUFACTURER. INCLUDE AN INSIDE COVER SHEET THAT LISTS THE PROJECT NAME, DATE, OWNER, ARCHITECT, ENGINEER, GENERAL CONTRACTOR, SUBCONTRACTOR, AND AN INDEX OF CONTENTS.
- 1.9.2. SUBMIT COPIES OF LITERATURE BOUND IN APPROVED BINDERS TO THE ARCHITECT AND OWNER AT THE TERMINATION OF THE WORK. PAPER CLIPS, STAPLES, RUBBER BANDS, AND MAILING ENVELOPES ARE NOT CONSIDERED APPROVED BINDERS. FINAL APPROVAL OF MECHANICAL WILL BE WITHHELD UNTIL THIS EQUIPMENT BROCHURE IS DEEMED COMPLETE BY THE ARCHITECT, ENGINEER, AND OWNER.

### 1.10. WARRANTIES:

- 1.10.1. WARRANT EACH SYSTEM AND EACH ELEMENT THEREOF AGAINST ALL DEFECTS DUE TO FAULTY WORKMANSHIP, DESIGN OR MATERIAL FOR A PERIOD OF 12 MONTHS OF DATE OF SUBSTANTIAL COMPLETION (COMPRESSORS IN AIR CONDITIONING AND REFRIGERATION EQUIPMENT WITH A 60 MONTH WARRANTY), UNLESS SPECIFIC ITEMS ARE NOTED TO CARRY A LONGER WARRANTY IN THE CONSTRUCTION DOCUMENTS OR MANUFACTURER'S STANDARD WARRANTY EXCEEDS 12 MONTHS. REMEDY ALL DEFECTS, OCCURRING WITHIN THE WARRANTY PERIOD(S), AS STATED IN THE GENERAL CONDITIONS AND DIVISION 1.
- 1.10.2. WARRANTIES SHALL INCLUDE LABOR AND MATERIAL. MAKE REPAIRS OR REPLACEMENTS WITHOUT ANY ADDITIONAL COSTS TO THE OWNER.
- 1.10.3. PERFORM THE REMEDIAL WORK PROMPTLY, UPON WRITTEN NOTICE FROM THE ENGINEER OR OWNER. AT THE TIME OF SUBSTANTIAL COMPLETION, DELIVER TO THE OWNER ALL WARRANTIES, IN WRITING AND PROPERLY EXECUTED, INCLUDING TERM LIMITS FOR WARRANTIES EXTENDING BEYOND THE ONE YEAR PERIOD, EACH WARRANTY INSTRUMENT BEING ADDRESSED TO THE OWNER AND STATING THE COMMENCEMENT DATE AND TERM.

### 1.11. CUTTING AND PATCHING:

- 1.11.1. PERFORM CUTTING OF WALLS, FLOORS, CEILINGS, ETC., AS REQUIRED TO INSTALL WORK UNDER THIS SECTION. OBTAIN PERMISSION FROM THE ARCHITECT PRIOR TO CUTTING. DO NOT CUT OR DISTURB STRUCTURAL MEMBERS WITHOUT PRIOR APPROVAL FROM THE ARCHITECT. CUT HOLES AS SMALL AS POSSIBLE. PATCH WALLS, FLOORS, ETC., AS REQUIRED BY WORK UNDER THIS SECTION. PATCHING SHALL MATCH THE ORIGINAL MATERIAL AND CONSTRUCTION. REPAIR AND REFINISH AREAS DISTURBED BY WORK TO THE CONDITION OF ADJOINING SURFACES IN A MANNER SATISFACTORY TO THE ARCHITECT.

### 1.12. ROUGH-IN:

- 1.12.1. COORDINATE WITHOUT DELAY ROUGH-IN WITH GENERAL CONSTRUCTION. CONCEAL PIPING AND CONDUIT ROUGH-IN EXCEPT IN UNFINISHED AREAS AND WHERE OTHERWISE SHOWN.
- 1.12.2. RUN ALL PIPING AND DUCTWORK NEAT AND PARALLEL TO THE BUILDING STRUCTURE UNLESS OTHERWISE NOTED.

### 1.13. STRUCTURAL STEEL:

- 1.13.1. STRUCTURAL STEEL USED FOR PIPE SUPPORTS, EQUIPMENT SUPPORTS, ETC., SHALL BE NEW, CLEAN, AND CONFORM TO ASTM DESIGNATION A-36.
- 1.13.2. SUPPORT EQUIPMENT AND PIPING FROM THE BUILDING STRUCTURE. DO NOT SUPPORT EQUIPMENT FROM CEILINGS, OTHER PLUMBING, MECHANICAL, FIRE PROTECTION, OR ELECTRICAL COMPONENTS, AND OTHER NON-STRUCTURAL ELEMENTS.

### 1.14. ACCESS DOORS:

- 1.14.1. PROVIDE ACCESS DOORS IN CEILINGS AND WALL WHERE INDICATED OR REQUIRED FOR ACCESS TO CONCEALED VALVES, DAMPERS, AND EQUIPMENT INSTALLED UNDER THIS SECTION. PROVIDE CONCEALED HINGES, SCREWDRIVER-TYPE LOCK, ANCHOR STRAPS; MANUFACTURED BY MILCOR, ZURN, TITUS OR EQUAL. OBTAIN ARCHITECT'S APPROVAL OF TYPE, SIZE, LOCATION, AND COLOR BEFORE ORDERING.

### 1.15. PENETRATIONS:

- 1.15.1. SEAL FLOOR, EXTERIOR WALL AND ROOF PENETRATIONS WATER AND WEATHER TIGHT WITH APPROPRIATE NON-SHRINK, NON-HARDENING COMMERCIAL CONSTRUCTION SEALANT. SEAL ROOF PENETRATIONS WITH 4 POUND PER SQUARE FOOT LEAD FLASHING. PROVIDE A SLEEVE, AND SEAL NON-FIRE-RATED FLOOR AND WALL PENETRATIONS WITH FIBERGLASS PACKING AND SILICONE CAULK (FOR ACOUSTICAL INSULATION).
- 1.15.2. COORDINATE FIRE RATING REQUIREMENTS AND LOCATIONS WITH THE ARCHITECTURAL DRAWINGS OR EXISTING BUILDING CONDITIONS AND RATINGS. SEAL PENETRATIONS OF FIRE-RATED ASSEMBLIES WITH 3M # CP-25 FIRE BARRIER CAULK (PROVIDE THICKNESS AND METHOD AS REQUIRED AND RECOMMENDED BY MANUFACTURER) TO MAINTAIN THE FIRE RESISTANCE RATING OF FIRE-RATED ASSEMBLIES.
- 1.15.3. SEAL EXTERIOR WALL PENETRATIONS BELOW GRADE WITH CASE IRON WALL PIPES AND MODULAR MECHANICAL SLEEVE SEALS, MANUFACTURED BY THUNDERLINE/LINK SEAL, CALPICO, INC, METRAFLEX OR APPROVED EQUAL.
- 1.15.4. PROVIDE SLEEVE FOR HORIZONTAL PIPE PASSING THROUGH OR UNDER FOUNDATION. SLEEVES SHALL BE CAST IRON SOIL PIPE TWO NOMINAL PIPE SIZES LARGER THAN THE PIPE SERVED. SEAL WATER-TIGHT WITH SILICON CAULK.

## 2. HEATING, VENTILATION, AND AIR CONDITIONING

### 2.1. DUCTWORK:

- 2.1.1. PROVIDE ANY DUCTWORK NECESSARY FOR A COMPLETE INSTALLATION OF HVAC SYSTEMS (INCLUDING EXHAUST SYSTEMS AND MAKE-UP AIR SYSTEMS). ALL DUCTWORK IDENTIFICATION AND INSTALLATION TO ADHERE TO SMACNA STANDARDS AND ALL GOVERNING CODES.
- 2.1.2. DUCTWORK SHALL BE GALVANIZED STEEL, CONSTRUCTED AND INSTALLED AS RECOMMENDED BY SMACNA AND INSULATED WITH 2" THICK FIBERGLASS DUCT WRAP WITH FOIL VAPOR BARRIER JACKET. SHEET METAL GAUGES SHALL BE IN ACCORDANCE WITH SMACNA. FLEXIBLE DUCTWORK SHALL BE FACTORY INSULATED WITH VAPOR BARRIER JACKET.
- 2.1.3. DUCTWORK CONNECTIONS TO AIR DEVICES MUST BE MADE WITH HARD PIPE ELBOWS, COVERED WITH SLEEVE INSULATION. FLEX DUCT MUST NOT BE UTILIZED FOR A 90 DEGREE CONNECTION TO AN AIR DEVICE.
- 2.1.4. BALANCING DAMPERS WITH DOUBLE LOCKING QUADS SHALL BE PROVIDED IN ALL ROUND DUCT TAKE-OFFS FROM THE MAIN TRUNKS, UNLESS OTHERWISE NOTED ON PLANS.
- 2.1.5. A MAXIMUM OF 7'-0" OF FLEX DUCT MAY BE USED FOR FINAL CONNECTION OF SUPPLY AIR DIFFUSERS AND GRILLES.
- 2.1.6. FLEX DUCT MUST BE PROPERLY SUPPORTED WITH ONE INCH STRAPS AND CUT TO PROPER LENGTH TO PREVENT SAGGING.
- 2.1.7. FLEX DUCT SHALL BE OWENS-CORNING FOIL-BACK HIGH QUALITY U/L APPROVED. PLASTIC WRAPPED

FLEX DUCT IS NOT ACCEPTABLE. FLEXIBLE DUCTWORK MAYBE USED FOR RUN-OUTS TO AIR DISTRIBUTION DEVICES AS INDICATED BUT SHALL NOT BE USED IN NON-ACCESSIBLE, CONCEALED SPACES.

2.1.8. RIGID DUCT SHALL BE USED FOR RETURN EXHAUST AND MAKE-UP AIR.

### 2.2. INSULATION:

- 2.2.1. SUPPLY AND RETURN DUCTWORK INSIDE THE BUILDING SHALL BE INSULATED WITH 2" THICK EXTERIOR FIBERGLASS DUCT WRAP WITH A VAPOR BARRIER, SEAL ALL JOINTS AND LAPS TO MAINTAIN VAPOR BARRIER.
- 2.2.2. SUPPLY AND RETURN DUCTWORK OUTSIDE THE BUILDING SHALL BE INSULATED WITH 2" LINER WITH A MINIMUM R-VALUE OF 8.0 AND SEAL SEAMS WEATHER TIGHT.
- 2.2.3. DEDICATED OUTSIDE AIR SUPPLY AND RELIEF DUCTWORK INSIDE THE BUILDING SHALL BE INSULATED WITH 2" THICK DUCT WRAP WITH A MINIMUM R-VALUE OF 6.0.

### 2.3. FINAL TESTING AND ADJUSTMENTS:

- 2.3.1. AIR BALANCE SHALL BE PERFORMED AT THE COMPLETION OF THE PROJECT. BALANCE EACH SUPPLY, RETURN, OUTSIDE AIR DEVICE WITHIN 5% OF REQUIREMENTS AND FURNISH AN AABC OR NEBB CERTIFIED REPORT TO THE OWNER, MECHANICAL INSPECTOR AND ENGINEER. THE ENTIRE HVAC SYSTEM MUST BE FULLY OPERABLE, BALANCED, AND APPROVED BY OWNER'S REPRESENTATIVE ON OR BEFORE THE DAY OF SUBSTANTIAL COMPLETION.
- 2.3.2. ADJUST THERMOSTATS AND CONTROL DEVICES TO OPERATE AS INTENDED. ADJUST PUMPS, FANS, ETC. FOR PROPER AND EFFICIENT OPERATION. CERTIFY TO ARCHITECT THAT ADJUSTMENTS HAVE BEEN MADE AND THAT SYSTEMS IS OPERATING SATISFACTORILY. CALIBRATE, SET AND ADJUST AUTOMATIC TEMPERATURE CONTROLS. CHECK PROPER SEQUENCES OF INTERLOCK SYSTEMS, AND OPERATION OF SAFETY CONTROLS.
- 2.3.3. VERIFY ECONOMIZER OPERATION PER MANUFACTURER PROCEDURE.

### 2.4. DIFFUSERS AND GRILLES:

- 2.4.1. ALL SUPPLY AND RETURN AIR DEVICES SHALL BE INSTALLED BY THE CONTRACTOR.
- 2.4.2. ALL AIR TERMINAL DEVICES SHALL BE INSTALLED AS SHOWN ON THE PLANS IN ORDER TO HANDLE THE DESIGNED AIR FLOW CAPACITIES WITH A MINIMUM AMOUNT OF NOISE AND STATIC PRESSURE, PROVIDE BALANCING DAMPERS FOR ALL AIR FLOW DEVICES TO ALLOW ADJUSTMENT WITH A LOCKING SET POINT, ROOM OPERATED SLIDE ACTUATED DAMPERS ON SUPPLY GRILLES DO NOT MEET THE REQUIREMENTS OF A BALANCING DAMPER.

### 2.5. CONDENSATE DRAINS:

- 2.5.1. THE MECHANICAL CONTRACTOR SHALL PROVIDE AND INSTALL AS A MINIMUM A 4" DEEP P-TRAP ON CONDENSATE DRAIN OUTLETS WHERE THE CONDENSATE WATER WILL EXIT THE P-TRAP AT A POINT 1" LOWER THAN THE DRAIN CONNECTION AT THE UNIT. THE MECHANICAL CONTRACTOR SHALL PROVIDE AND INSTALL CONDENSATE LINES AS REQUIRED TO MEET LOCAL CODES AND AS SHOWN ON THE MECHANICAL PLANS. THESE LINES SHALL BE SLOPED AWAY FROM THE UNITS, SUPPORTED AS REQUIRED TO ASSURE PROPER FLOW, AND AT THE MECHANICAL CONTRACTOR'S OPTION, CONDENSATE DRAIN LINES MAY BE SCHEDULE 40 PVC OR COPPER. ALL JOINTS SHALL BE SECURELY GLUED OR SOLDERED AS REQUIRED. INSULATE 3/4" THICK PIPE INSULATION WHERE REQUIRED.

### 2.6. CONTROLS:

- 2.6.1. MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR SUPPLYING AND INSTALLING A COMPLETE OPERATIVE SYSTEM OF CONTROLS, INCLUDING THERMOSTATS, CONTROL DEVICES, TIME CLOCKS, DDC COMPONENTS, AND CONTROL WIRING..
- 2.6.2. SMOKE DETECTORS AND SAMPLING TUBES PROVIDED AND INSTALLED TO THE UNITS AND IN THE DUCTWORK BY THE MECHANICAL CONTRACTOR. THE SMOKE DETECTORS SHALL DISABLE HVAC UNIT OPERATION UPON ACTIVATION.

### 2.7. ELECTRICAL:

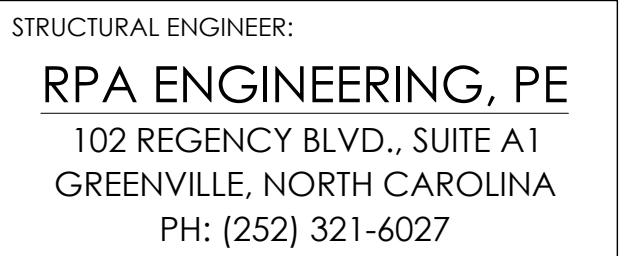
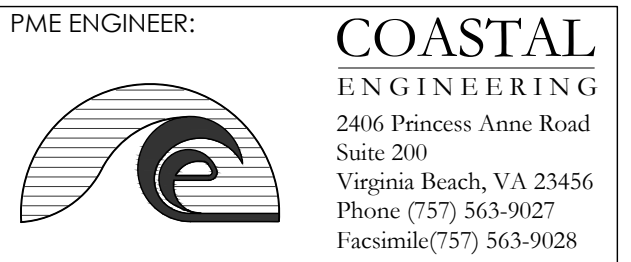
- 2.7.1. LOW VOLTAGE WIRING - ALL PROVISIONS FOR LOW VOLTAGE WIRING SHALL BE PERFORMED BY THE MECHANICAL CONTRACTOR UNLESS CODES OR LABOR SITUATIONS DO NOT PERMIT. IF THE MECHANICAL CONTRACTOR CAN NOT PERFORM LOW VOLTAGE WIRING, THE MECHANICAL CONTRACTOR SHALL INFORM THE GENERAL CONTRACTOR, AS A PART OF THE HVAC BID DOCUMENT, TO HAVE THE ELECTRICAL SUBCONTRACTOR INCLUDE HIS WORK IN THEIR BID.
- 2.7.2. POWER WIRING - ALL ELECTRICAL POWER WIRING TO INCLUDE FINAL CONNECTIONS SHALL BE PROVIDED BY THE GENERAL CONTRACTOR'S ELECTRICAL SUBCONTRACTOR.
- 2.7.3. MOTOR STARTERS SHALL BE PROVIDED BY THE MECHANICAL CONTRACTOR AND TURNED OVER TO THE ELECTRICAL CONTRACTOR FOR INSTALLATION.

### 2.8. REFRIGERATION LINES:

- 2.8.1. REFRIGERATION LINE SETS FOR HVAC UNITS ARE TO BE PROVIDED WITH THE EQUIPMENT AND SIZED BY THE MANUFACTURER BASED ON ACTUAL JOB SITE CONDITIONS INCLUDING LENGTH AND ELEVATION CHANGES, AND INSTALLED BY THE CONTRACTOR.
- 2.8.2. INSULATE ALL REFRIGERANT LIQUID LINES AND PROVIDE AN ALL WEATHER COATING ON EXTERIOR INSULATION.

### 2.9. MECHANICAL CONTRACTOR RESPONSIBILITIES:

- 2.9.1. AFTER COMPLETION OF THE WORK DESCRIBED IN THIS SPECIFICATION AND SHOWN ON THE DRAWINGS, THE MECHANICAL CONTRACTOR SHALL THOROUGHLY CLEAN ALL EXPOSED EQUIPMENT, REMOVING ALL LABELS AND STICKERS NOT CONTAINING OPERATION INSTRUCTION. MECHANICAL CONTRACTOR SHALL REMOVE CRATING DEBRIS, LEAVING THE INSTALLATION FINISHED AND READY FOR OPERATION, TO INCLUDING CLEAN FILTERS IN AIR HANDLING UNITS.
- 2.9.2. TEST AND DEMONSTRATE TO THE OWNER THE ENTIRE SYSTEM IN ALL MODES OF OPERATION TO INSURE PROPER OPERATION.



PROJECT NAME:

# ATTENDANT BUILDING

North Boyd  
Beaufort County  
North Carolina

REVISIONS:	DATE:
ISSUED FOR BID	3 / 30 / 26

DRAWING NAME:

## MECHANICAL SPECIFICATIONS

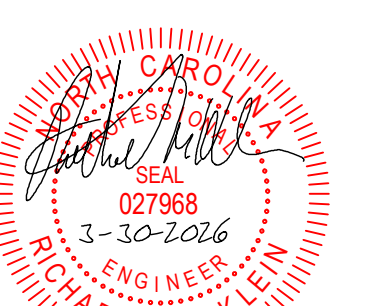
## ISSUED FOR BID

DRAWN BY: LKK

DATE: 03/30/2026

SCALE: NONE

STAMP:



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SHEET:

# M7.1

# LEGEND

- NOTE: ALL SYMBOLS BELOW MAY NOT BE USED ON PLANS, SYMBOLS NOT SHOWN BELOW ARE IDENTIFIED WHERE THEY OCCUR.
- LED LIGHTING FIXTURES. LETTER INDICATES TYPE, SEE LIGHTING FIXTURE SCHEDULE
  - LED NIGHT LIGHTING OR EMERGENCY FIXTURE.
  - LED LIGHTING FIXTURE, CEILING OR WALL MOUNTED.
  - EXIT LIGHTING FIXTURE. ARROW, WHEN USED INDICATES DIRECTION (SHADING INDICATES FACE OF SIGN ORIENTATION). CEILING OR WALL MOUNTED RESPECTIVELY.
  - EMERGENCY BATTERY POWERED LIGHTING UNIT. (TWIN HEAD)
  - LIGHTING FIXTURE TYPE SYMBOL. SEE "LIGHTING FIXTURE SCHEDULE"
  - LIGHTING CONTACTOR.
  - SINGLE POLE LIGHT SWITCH. 20A, 120/277V, MOUNT 42" AFF TO BOTTOM OF BOX U.O.N. SUBSCRIPT INDICATES SWITCH FIXTURE CONFIGURATION
  - THREE WAY SWITCH, 20A 120/277V, MOUNT 42" AFF TO BOTTOM OF BOX U.O.N.
  - FOUR WAY SWITCH, 20A 120/277V, MOUNT 42" AFF TO BOTTOM OF BOX U.O.N.
  - FRACTIONAL HORSEPOWER MANUAL MOTOR STARTER WITH OVERLOADS, 20A, 240V(USED FOR WATER HEATER)
  - WALL BOX DUAL TECHNOLOGY OCCUPANCY SENSOR. 120/277V, MOUNT AT 42" AFF TO BOTTOM OF BOX U.O.N.
  - DUPLEX CONVENIENCE RECEPTACLE. 20A, 125VAC, NEMA 5-20R, MOUNT 18" AFF TO BOTTOM OF BOX U.O.N.  
C = CEILING MOUNT  
WP = WEATHERPROOF  
G = GROUND FAULT INTERRUPTER  
48 = MOUNTING HEIGHT AFF IN INCHES
  - TWO DUPLEX CONVENIENCE TYPE RECEPTACLES(QUADRIPLEX), EACH NEMA 5-20R, MOUNT IN TWO GANG RECEPTACLE BOX WITH SINGLE COVER PLATE, MOUNT 18" AFF TO BOTTOM OF BOX U.O.N.
  - CONDUIT HOMERUN WITH PANELBOARD & CIRCUIT DESIGNATIONS BRANCH CIRCUIT OF FEEDER WIRING IN CONDUIT. PROVIDE SIZE AND QUANTITY OF CONDUCTORS AS REQUIRED TO FACILITATE CIRCUIT CONFIGURATION AND/OR SWITCHING INDICATED. MINIMUM CONDUCTOR SIZE SHALL BE #12 AWG (OR AS INDICATED), MINIMUM CONDUIT SIZE SHALL BE 1/2".
  - BRANCH CIRCUIT OR FEEDER WIRING IN CONDUIT. NO TICK MARKS INDICATE 2 CONDUCTORS & 1 GROUND IN CONDUIT UON. TICK MARKS, WHEN SHOWN, INDICATE QUANTITY OF CONDUCTORS IF OTHER THAN THREE; (+) INDICATES GROUND, (+-) INDICATES INSULATED ISOLATED GROUND. FOR CONDUIT AND WIRE SIZES REFER TO PANELBOARD SCHEDULES.
  - HOMERUNS TO PANEL. PANEL & CIRCUIT DESIGNATIONS AS INDICATED.
  - CIRCUIT BREAKER
  - PANELBOARD
  - DISCONNECT SAFETY SWITCH & CONNECTION  
2P = NO. OF POLES  
60 = SWITCH RATING  
40 = FUSE RATING (NF INDICATES NON-FUSIBLE).
  - MOTOR STARTER, CONTROLLER, OR RELAY FOR MECHANICAL EQUIPMENT. DEVICE SUPPLIED BY MECHANICAL CONTRACTOR; INSTALLED AND CONNECTED BY ELECTRICAL CONTRACTOR. VERIFY EXACT LOCATION.
  - MOTOR CONNECTION, HP, AND CHARACTERISTICS AS NOTED
  - ELECTRICAL CONNECTION AS NOTED.
  - POINT OF WORK, DEMO AND NEW WORK.
  - ROOM NUMBER
  - NEW WORK NOTE SYMBOL
  - DEMO WORK NOTE SYMBOL
  - STANDARD TELEPHONE OUTLET BOX AND JACK. MOUNT 18" AFF. TO BOTTOM OF BOX U.O.N. PROVIDE 3/4" CONDUIT STUBBED ABOVE ACCESSIBLE CEILING SPACE WITH CAT-6 CABLING BACK TO TELEPHONE MAIN EQUIPMENT U.O.N. 48" = MOUNTING HEIGHT AFF. IN INCHES
  - TELECOMMUNICATIONS OUTLET BOX AND JACK. MOUNT 18" AFF. TO BOTTOM OF BOX U.O.N. PROVIDE 3/4" CONDUIT STUBBED ABOVE ACCESSIBLE CEILING SPACE WITH CAT-6 CABLING BACK TO TELEPHONE MAIN EQUIPMENT U.O.N. (VOICE AND DATA). MOUNT +18" AFF. U.O.N. 48" = MOUNTING HEIGHT AFF. IN INCHES
  - TELEVISION OUTLET BOX AND CONNECTOR. MOUNT 18" AFF. TO BOTTOM OF BOX U.O.N. PROVIDE 3/4" CONDUIT STUBBED ABOVE ACCESSIBLE CEILING SPACE WITH RG-6 CABLING BACK TO HEADEND MAIN EQUIPMENT U.O.N. 48" = MOUNTING HEIGHT AFF. IN INCHES
  - TELECOMMUNICATIONS SYSTEM TERMINAL BACKBOARD
  - TRANSFORMER, DRY TYPE
  - JUNCTION BOX (J.B.) FLUSH MOUNTED 4"SQ x DEPTH REQ'D UON. S=SURFACE MOUNTED
  - JUNCTION BOX (J.B.) SURFACE MOUNTED ABOVE CEILING. SIZE AS NOTED ON DRAWINGS.
  - WATER HEATER CONNECTION.
  - LINE VOLTAGE CEILING MOUNT OCCUPANCY SENSOR EQUAL TO SENSORSWITCH# CMR PDT10 LT CM WH U.O.N.

# GENERAL NOTES

- THE INSTALLATION OF ALL ELECTRICAL EQUIPMENT, DEVICES AND FIXTURES SHALL CONFORM TO ALL CURRENT LOCAL CODES, ORDINANCES, NATIONAL ELECTRIC CODE, AND UTILITY COMPANY REQUIREMENTS.
- ALL RECEPTACLES AND SWITCHES SHALL BE FLUSH MOUNTED FOR ALL AREAS, UNLESS OTHERWISE NOTED.
- THE ELECTRICAL DRAWINGS ARE GENERALLY DIAGRAMMATIC. THE ELECTRICAL INSTALLATION SHALL BE COORDINATED WITH ALL OTHER TRADES SO THAT INTERFERENCES BETWEEN THE ELECTRICAL INSTALLATION AND ARCHITECTURAL, STRUCTURAL, MECHANICAL, PLUMBING, FIRE PROTECTION AND EQUIPMENT INSTALLATION WILL BE AVOIDED. REFER TO ARCHITECTURAL DRAWINGS. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND ALL RELATED ELECTRICAL NOTES AND SHALL BE RESPONSIBLE FOR INCLUDING FIELD VERIFICATIONS IN HIS BID. NO CHANGE ORDERS SHALL BE CONSIDERED FOR LACK OF FIELD VERIFICATION OF ALL PLAN NOTES AND DIMENSIONS.
- SEE ARCHITECTURAL DRAWINGS FOR DIMENSIONS, ROOM, AND AREA FINISHES, CEILING PLANS, DOOR SWINGS, FIRE RELATED PARTITIONS, CABINET AND CASE AND BUILT-IN DETAILS.
- CONTRACTOR SHALL PROVIDE ALL DISCONNECTS TO MEET LOCAL CODES.
- CONTRACTOR SHALL VERIFY ALL DOOR SWINGS BEFORE INSTALLING LIGHT SWITCHES. ALL LIGHT SWITCHES TO BE INSTALLED ON STRIKE SIDE OF DOOR UNLESS SPECIFICALLY NOTED OTHERWISE. WHERE SWITCHES ARE LOCATED ON HINGE SIDE OF DOOR, SWITCH SHALL BE INSTALLED A MINIMUM OF 36" FROM HINGE.
- ALL FINAL CONNECTIONS SHOWN ON THE DRAWINGS ARE ACTUAL REQUIREMENTS OF THE EQUIPMENT AND ARE SHOWN IN THEIR APPROXIMATE LOCATION.
- ALL EXTERIOR EQUIPMENT AND DEVICES SHALL BE WEATHERPROOF AND RAIN TIGHT.
- COORDINATE ALL LIGHTING WITH MECHANICAL AND PLUMBING EQUIPMENT.
- ALL BATHROOM RECEPTACLES SHALL BE GROUND FAULT PROTECTED. (TYPICAL)
- FINAL DETERMINATION OF FIRE STOPPING REQUIREMENTS SHALL BE BASED ON LOCAL CODE REQUIREMENT.
- CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFYING ALL DIMENSIONS AND MEASUREMENTS. NOTIFY ENGINEER OF ANY DISCREPANCIES PRIOR TO BID.

# ABBREVIATIONS

Ø, PH	PHASE
JB	JUNCTION BOX
A, AMP	AMPERE
KVA	KILOVOLT AMPERES
AFF	ABOVE FINISHED FLOOR
KW	KILOWATT
AFG	ABOVE FINISHED GRADE
MLO	MAIN LUGS ONLY
AIC	AMPERE INTERRUPTING CAPACITY
MT	MOUNT (RMS SYMMETRICAL)
MTD	MOUNTED ALTERNATE ALT
MTG	MOUNTING
MCB	MAIN CIRCUIT BREAKER
APPROX	APPROXIMATELY
NF	NONFUSIBLE
C	CONDUIT
NTS	NOT TO SCALE
ε	CENTERLINE
P	POLE
EF	EXHAUST FAN
RTU	ROOF TOP UNIT
EQUIP	EQUIPMENT TYP TYPICAL
EXIST	EXISTING
UON	UNLESS OTHERWISE NOTED
F	FUSE
V	VOLT, VOLTAGE
FLEX	FLEXIBLE
W	WIRE
GFI	GROUND FAULT INTERRUPTER
WP	WEATHERPROOF
GND	GROUND
HP	HORSE POWER
E	EXISTING
N	NEW
UC	UNDER COUNTER

LIGHTING FIXTURE SCHEDULE								
TYPE	DESCRIPTION	CATALOG NUMBER	NUMBER OF LAMPS	LAMP TYPE	TOTAL WATTS	VOLTS	MOUNTING	NOTES
A	48" LED STRIP LIGHT	LITHONIA# CSS L48 4000LM MVOLT 40K 80CRI	1	LED	38W	MVOLT	SURFACE CEILING	1
AE	SAME AS TYPE "A" EXCEPT WITH EMERGENCY BATTERY BACKUP	LITHONIA# CSS L48 4000LM MVOLT 40K 80CRI E10W	1	LED	38W	MVOLT	SURFACE CEILING	1,3
B	6" DIAMETER LED RECESSED CAN	JUNO# 65BEMW SWW5 90CRI	1	LED	10.5W	120V	RECESSED CEILING	1,2
C	2' LED WALL VANITY	LITHONIA# FMVCSL 24IN MVOLT 30K 90CRI BN M6	1	LED	10.5W	120V	SURFACE WALL ABOVE MIRROR	1,4
D	LED WALL PACK WITH PHOTOCELL	LITHONIA# WPX1 LED P1 40K MVOLT E4WH DDBXD	1	LED	11W	MVOLT	EXTERIOR WALL	1,3,5
E	COMBO EXIT/EMERGENCY LED LIGHT	LITHONIA# LHQM LED G SD M6	2	LED	5.7W	120-277V	UNIVERSAL	1,3
EX	LED EXIT LIGHT	LITHONIA# EXRG EL M6	1	LED	3W	120-277V	UNIVERSAL	1,3
F	5" LED ATTIC LIGHT WITH BUILT IN MOTION SENSOR	COMMERCIAL ELECTRIC(HOME DEPOT)	1	LED	7W	120V	ATTIC	1

NOTES:  
 1. SELECTIONS BY ARCHITECT. EQUALS REQUIRE PRIOR APPROVAL FROM ARCHITECT  
 2. SET AT 4000°K  
 3. WITH EMERGENCY BATTERY BACKUP.  
 4. UL LISTED FOR DAMP LOCATIONS.  
 5. UL LISTED FOR WET LOCATIONS.

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PROJECT NAME:  
**ATTENDANT BUILDING**  
 North Boyd  
 Beaufort County  
 North Carolina

REVISIONS:	DATE:
ISSUED FOR BID	3 / 30 / 26

DRAWING NAME:  
 ELECTRICAL LEGEND,  
 ABBREVIATIONS, NOTES, &  
 LIGHTING FIXTURE SCHEDULE

**ISSUED FOR BID**

DRAWN BY: BPM

DATE: 03/30/2026

SCALE: NONE

STAMP:

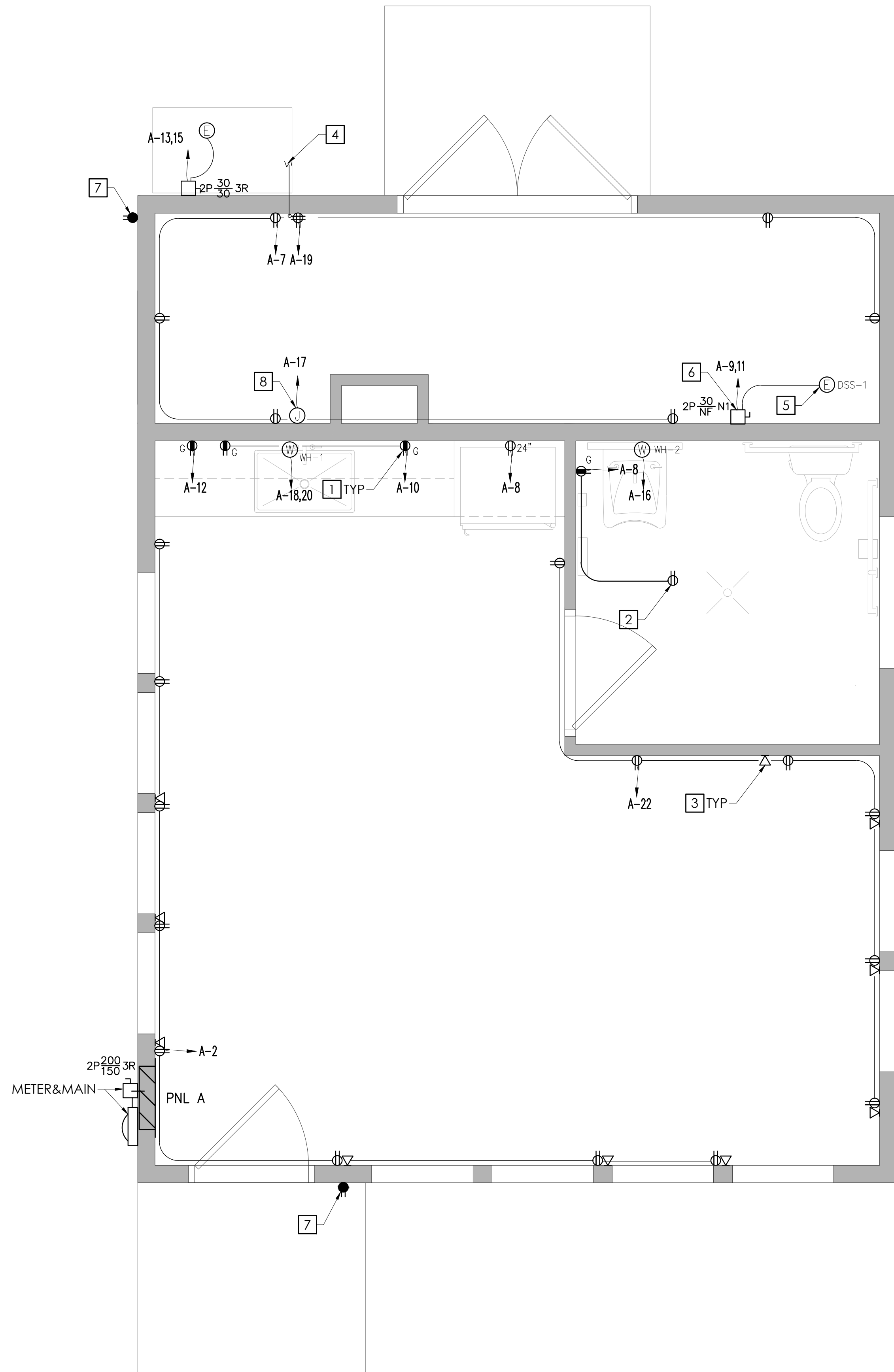
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SHEET:  
**E0.1**

**GENERAL WORK NOTES:**

(THIS SHEET ONLY)

1. ALL OUTLETS OR DEVICES INSTALLED WITHIN 6'-0" FROM SINKS SHALL BE GFCI PROTECTED.



**NEW WORK NOTES:**

(THIS SHEET ONLY)

- 1 LOCATE GFI RECEPTACLES AT 4" ABOVE COUNTER TOP.(TYPICAL)
- 2 ATTIC UTILITY RECEPTACLE CONNECTED TO CIRCUIT "A-8"
- 3 TYPICAL TELEPHONE/DATA OUTLET. PROVIDE BOX AND CONDUIT STUB UP. OWNER TO PROVIDE TELEPHONE PROVIDER TO INSTALL CABLING AND JACKS.(TYPICAL)
- 4 (1)1"PVC SCH. 40 CONDUIT WITH PULL STRING FOR TELEPHONE SERVICE TO TELEPHONE DEMARK AREA. COORDINATE WITH LOCAL UTILITY PROVIDE EXACT REQUIREMENTS AND LOCATION PRIOR TO BIDDING.
- 5 DSS-1(INDOOR UNIT) FED FROM HP-1(OUTSIDE UNIT) WITH (3)#12 CU IN 1/2"C.
- 6 DSS-1 AUXILIARY HEAT STRIP (3KW) OPTION. PROVIDE SEPARATE CIRCUIT.
- 7 CONNECT TO CIRCUIT "A-8"
- 8 CONNECTION AND CIRCUIT FOR HEAT TRACE FOR WATER PIPING. COORDINATE WITH PLUMBER EXACT LOCATION.

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DRAWING NAME:  
 FLOOR PLAN- NEW WORK POWER AND SPECIAL SYSTEMS

**ISSUED FOR BID**

DRAWN BY: BPM

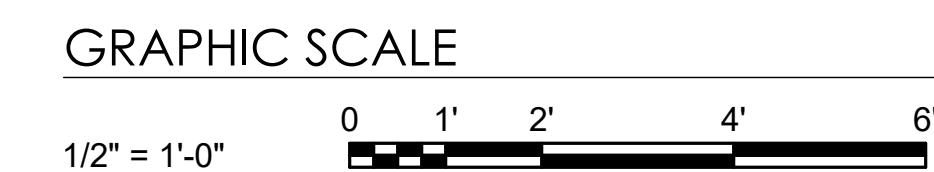
DATE: 03/30/2026

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



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SHEET:  
**E2.1**



REVISIONS:	DATE:
ISSUED FOR BID	3 / 30 / 26

DRAWING NAME:  
**FLOOR PLAN- NEW WORK LIGHTING**

**ISSUED FOR BID**

DRAWN BY: **BPM**

DATE: **03/30/2026**

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

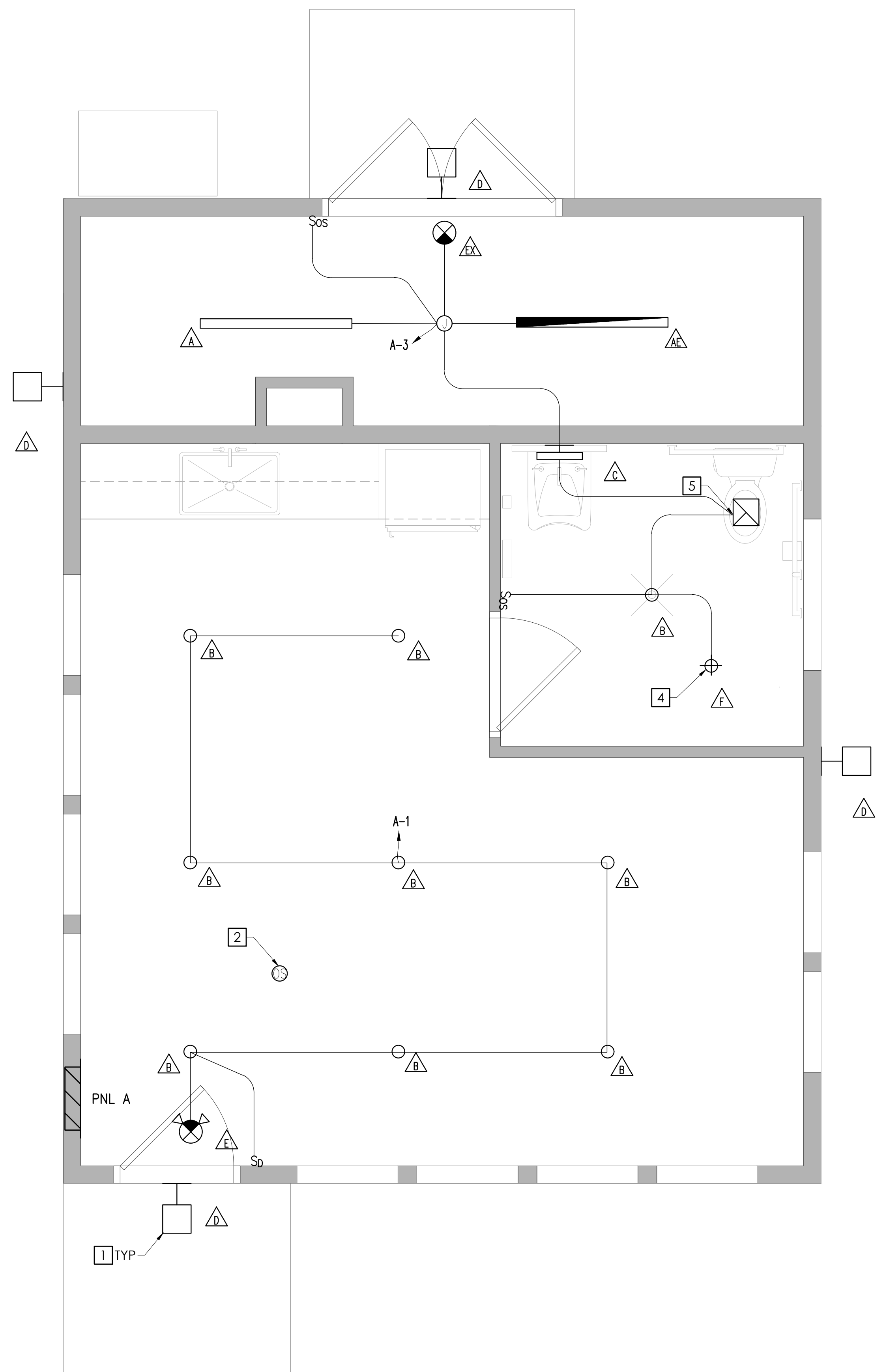


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SHEET:  
**E2.2**

**NEW WORK NOTES:** (THIS SHEET ONLY)

- 1 EXTERIOR WALL PACK LIGHTS ON CIRCUIT "A-5". AND CONTROLLED FROM INTEGRAL PHOTOCELL IN EACH FIXTURE. (TYPICAL)
- 2 TYPICAL LINE VOLTAGE CEILING MOUNT 360° DUAL TECHNOLOGY OCCUPANCY SENSOR. FIELD LOCATE FOR MAXIMUM COVERAGE IN AREA INTENDED FOR LIGHTING CONTROL.
- 3 TYPICAL EMERGENCY AND NIGHT LIGHT FIXTURE. FIXTURE SHALL BE ON HOT LEG AHEAD OF ANY SWITCHING OR CONTROLS AND SHALL SERVE AS AN EMERGENCY LIGHT AND NIGHT LIGHT.
- 4 ATTIC LIGHT. NEAR ATTIC ACCESS. CONNECT TO CIRCUIT "A-3".
- 5 BATHROOM EXHAUST FAN CONTROLLED FROM ROOM LIGHTING CONTROLS; FURNISHED AND INSTALLED BY MECHANICAL CONTRACTOR. WIRED BY ELECTRICIAN.



**FLOOR PLAN - NEW WORK LIGHTING**  
 SCALE: 1/2" = 1'-0"



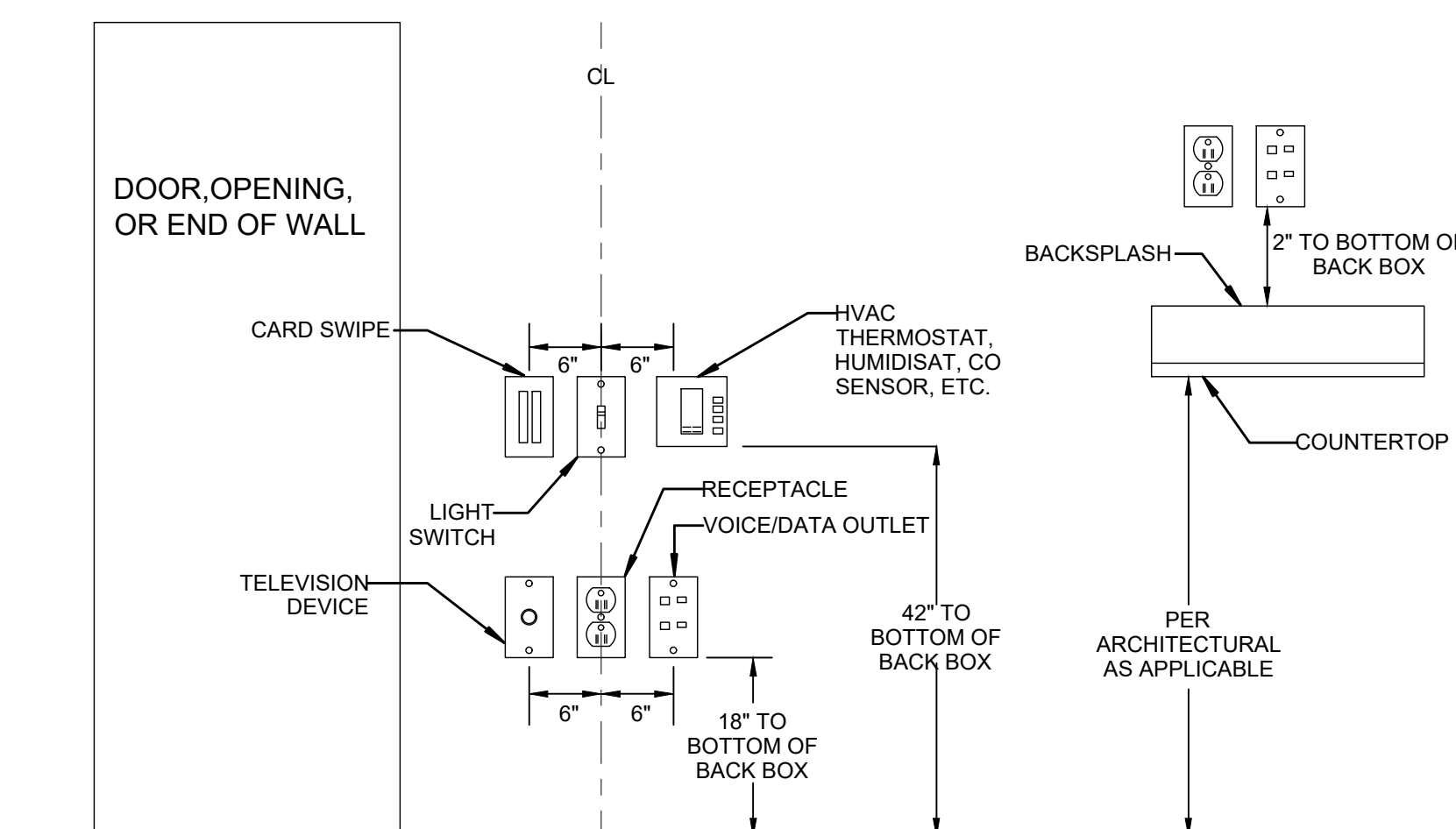
LOADCENTER A															
200A MLO, 240/120 VOLT, 1 PHASE, 3 WIRE, 22KAIC MINIMUM, FLUSH MOUNT															
LOAD SERVED	LOAD (AMPS)		BKR TRIP	WIRE SIZE	GND SIZE	COND SIZE	CKT NO.	PHASE A B	CKT NO.	COND SIZE	GND SIZE	WIRE SIZE	BKR TRIP	LOAD (AMPS)	
	A	B												A	B
OFFICE LIGHTING	4.0		20/1P	12	12	1/2"	1		2	1/2"	12	12	20/1P	12.0	
STORAGE/RESTROOM LIGHTING		3.0	20/1P	12	12	1/2"	3		4	1/2"	12	12	20/1P	6.0	
WALL PACK LIGHTING	3.0		20/1P	12	12	1/2"	5		6	1/2"	12	12	20/1P	12.0	
STORAGE ROOM RECEPTACLES		9.0	20/1P	12	12	1/2"	7		8	1/2"	12	12	20/1P	10.0	
DSS AUX HEAT STRIP (3KW)	12.5		20/2P	12	12	1/2"	9		10	1/2"	12	12	20/1P	3.0	
HP-1/DSS-1		12.5					11		12				20/1P		
HEAT TRACE	19.0		30/2P	10	10	3/4"	13		14				20/1P		
TELEPHONE EQUIP. BOARD		19.0					15		16	1/2"	10	10	30/1P	20.0	
SPACE			20/1P	12	12	1/2"	17		18	1/2"	10	10	30/2P	20.0	
SPACE		4.0	20/1P	12	12	1/2"	19		20					20.0	
SPACE							21		22	1/2"	12	12	20/1P	9.0	
SPACE							23		24						
SPACE							25		26						
SPACE							27		28						
SPACE							29		30						
TOTAL	54.5	47.5												56.0	56.0
TOTAL CONNECTED AMPS A: 110.5 B: 103.5															

PROVIDE TYPE WRITTEN PANEL DIRECTORY. HAND WRITTEN IS NOT ACCEPTABLE.  
 \*DENOTES PROVIDE GFCI BREAKER

**GENERAL WORK NOTES:**

(THIS SHEET ONLY)

- CONTRACTOR SHALL OBTAIN AVAILABLE FAULT CURRENT AT POWER SOURCE FROM POWER CO. AND PROVIDE TO ENGINEER FOR FAULT CURRENT CALCULATION PRIOR TO ORDERING EQUIPMENT.

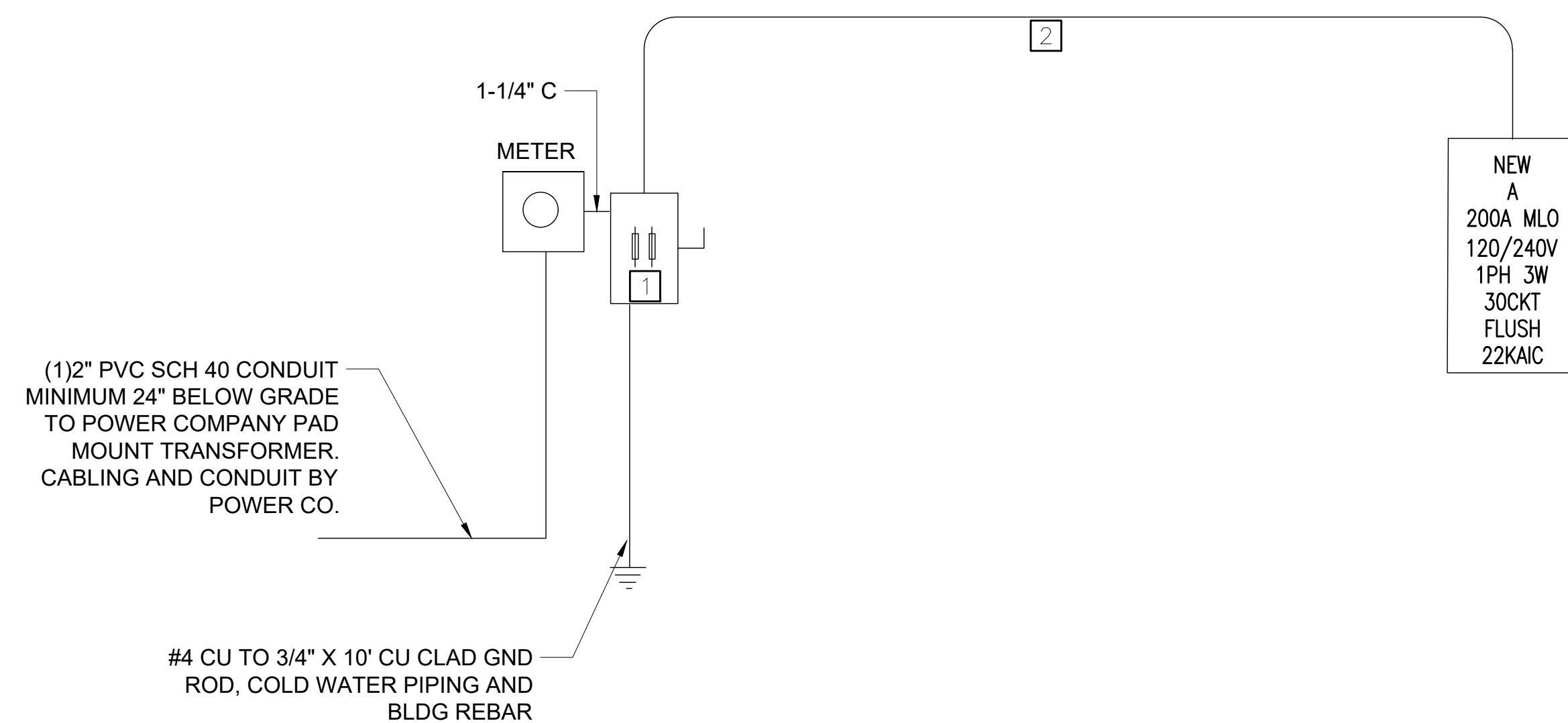


NOTE 1: DEVICES SHOWN WITHIN 48" OF EACH OTHER ON ALL ELECTRICAL PLANS SHALL BE ALIGNED PER THIS DETAIL. IF DEVICES ARE SHOWN IN MIDDLE OF WALL, THEN DEVICES SHALL BE CENTERED ON WALL.

NOTE 2: NOT ALL DEVICES MAY BE USED.

**DEVICE ALIGNMENT DETAIL**

NO SCALE



**ELECTRICAL RISER DIAGRAM**

NO SCALE

**NEW WORK NOTES:**

(THIS SHEET ONLY)

- 200A 2P FUSED @ 150A 250V N3R DISCONNECT SWITCH. LABEL SWITCH WITH ENGRAVE TAG AS "MAIN DISCONNECT".
- (3)#1/0 THHN/THWN CU, (1)#6 CU GND IN 1-1/2" CONDUIT.

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 North Boyd  
 Beaufort County  
 North Carolina

REVISIONS:	DATE:
ISSUED FOR BID	3 / 30 / 26

DRAWING NAME:  
 SCHEDULE, RISER  
 DIAGRAM AND DETAIL

**ISSUED FOR BID**

DRAWN BY: BPM

DATE: 03/30/2026

SCALE: NONE

STAMP:

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SHEET:  
**E6.1**

# ELECTRICAL SPECIFICATIONS

1. GENERAL CONDITIONS
  - 1.a. WORK UNDER THIS DIVISION SHALL BE SUBJECT TO THE AIA GENERAL AND SPECIAL CONDITIONS.
2. SCOPE
  - 2.a. THE WORK REQUIRED FOR THIS SECTION INCLUDES LABOR, MATERIALS, EQUIPMENT, APPURTENANCES, SERVICE AND SUPERVISION TO PROVIDE COMPLETE ELECTRICAL SYSTEMS AS SHOWN ON THE DRAWINGS.
3. SPECIFICATIONS, CODES AND STANDARDS
  - 3.a. THE LATEST EFFECTIVE PUBLICATIONS OF THE FOLLOWING STANDARDS, CODES, ETC. FORM A PART OF THESE SPECIFICATIONS:
    - 3.a.a. 2021 NATIONAL ELECTRICAL CODE (NEC)
    - 3.a.b. STANDARD RULES OF THE INSTITUTE OF ELECTRICAL AND ELECTRONIC ENGINEERS.
    - 3.a.c. NATIONAL ELECTRICAL MANUFACTURER'S ASSOCIATION
    - 3.a.d. 2021 NC UNIFORM BUILDING CODE
    - 3.a.e. 2021 NATIONAL FIRE PROTECTION ASSOCIATION (NFPA)
    - 3.a.f. CAPE HATTERAS ELECTRIC COOPERATIVE
  - 3.b. THIS CONTRACTOR SHALL GIVE REQUIRED NOTICES, OBTAIN NECESSARY PERMITS, AND PAY PERMIT FEES.
4. DRAWINGS
  - 4.a. THE DRAWINGS INDICATE DIAGRAMMATICALLY THE EXTENT OF THE WORK. MINOR VARIATIONS IN LOCATION OF EQUIPMENT SHALL BE MADE UPON WRITTEN APPROVAL OF THE ARCHITECT AT NO ADDITIONAL CHARGE.
5. EQUIPMENT
  - 5.a. STARTERS, CONTROLLERS, DISCONNECT, ETC; SHALL BE PROVIDED UNDER THIS DIVISION UNLESS OTHERWISE NOTED.
  - 5.b. POWER WIRING AND POWER CONNECTIONS TO EQUIPMENT SHALL BE PROVIDED UNDER "ELECTRICAL" UNLESS OTHERWISE INDICATED ON THE ELECTRICAL DRAWINGS.
  - 5.c. WHEN SUBSTITUTED MOTORS AND/OR EQUIPMENT REQUIRES ELECTRICAL MODIFICATIONS, THE COST OF THE ELECTRICAL MODIFICATIONS AND COORDINATION SHALL BE INCLUDED UNDER THE DIVISION PROVIDING THE MOTOR AND/OR EQUIPMENT.
6. COORDINATION
  - 6.a. COOPERATE AND COORDINATE THE WORK OF THIS DIVISION WITH OTHER TRADES.
2. MATERIAL AND EQUIPMENT
  - 2.a. ELECTRICAL MATERIALS AND EQUIPMENT SHALL BE NEW, LISTED, AND LABELED BY AN APPROVED TESTING AGENCY.
    - 2.a.a. INSTALL MATERIALS AND EQUIPMENT IN A FIRST CLASS AND WORKMANLIKE MANNER AND RUN CONCEALED THROUGHOUT THE BUILDING, EXCEPT AS INDICATED.
  - 2.b. MATERIAL AND EQUIPMENT SHALL BE PROPERLY STORED AND PROTECTED AT THE PROJECT SITE.
  - 2.c. CONTRACTOR SHALL FURNISH AND INSTALL ALL EQUIPMENT AND MATERIALS FOR A COMPLETE INSTALLATION IN ALL RESPECTS READY OF INTENDED USE AND THE STRICT ACCORDANCE WITH STATE AND LOCAL CODES AND MANUFACTURER'S RECOMMENDATIONS. PAY NECESSARY FEES AND OBTAIN PERMITS. INITIATE, MAINTAIN AND SUPERVISE ALL SAFETY PRECAUTIONS AND PROCEDURES.
  - 2.d. EQUIPMENT AND MATERIALS SHALL BE OF THE TYPE, SIZE AND MANUFACTURERS INDICATED ON THE DRAWINGS OR AN APPROVED EQUIVALENT.
  - 2.e. THE CONTRACTOR SHALL SUPPLY AND INSTALL THE MATERIALS AND EQUIPMENT COVERED BY THE PLANS AND SPECIFICATIONS TO THE OWNER COMPLETE AND IN FIRST CLASS CONDITION IN EVERY RESPECT. HE SHALL GUARANTEE THAT THE MATERIAL, EQUIPMENT, AND WORKMANSHIP SUPPLIED AND INSTALLED BY HIM SHALL BE ENTIRELY FREE FROM DEFECTS AND THAT HE WILL REPAIR OR REPLACE AT HIS OWN EXPENSE, ANY MATERIALS, EQUIPMENT, AND WORKMANSHIP IN WHICH DEFECTS ARE FOUND.
3. SUBSTITUTION OF MATERIAL AND EQUIPMENT
  - 3.a. THE NAME OF A CERTAIN BRAND, MAKE, MANUFACTURER OF DEFINITE SPECIFICATION IS TO DENOTE THE QUALITY STANDARD OF ARTICLE DESIRED. SUBSTITUTION OF ANY OTHER BRAND, MAKE, OR MANUFACTURER, WHICH IN THE OPINION OF THE ENGINEER IS RECOGNIZED THE EQUAL OF THAT SPECIFIED, MAY BE ACCEPTED.
  - 3.b. WHERE THREE OR MORE MANUFACTURERS ARE SPECIFIED, THERE WILL BE NO SUBSTITUTIONS
4. RECORD DRAWINGS
  - 4.a. UPON COMPLETION OF THE WORK, THE CONTRACTOR SHALL SUBMIT (1)ELECTRONIC COPY OF MARKED UP DRAWINGS AND SKETCHES TO THE ARCHITECT.
5. CONDUIT
  - 5.a. CONDUIT AND FITTINGS SHALL CONFORM TO THE FOLLOWING:
    - 5.a.a. RIGID STEEL - ANSI C80.1
    - 5.a.b. INTERMEDIATE METAL CONDUIT - UL 1242
    - 5.a.c. ELECTRICAL METALLIC TUBING (EMT) - ANSI C80.3
    - 5.a.d. FLEXIBLE METAL CONDUIT - UL-1
    - 5.a.e. PLASTIC CONDUIT (PVC) - NEMA TC-2 AND TC-3
  - 5.b. CONDUIT SHALL BE RUN CONCEALED, EXCEPT CONDUIT MAY BE EXPOSED ABOVE JOIST IN MECHANICAL ROOMS AND SPACES WITH EXPOSED CONSTRUCTION AS APPROVED BY THE ARCHITECT. CONDUIT INDICATED CONCEALED IN WALLS AND ABOVE CEILINGS SHALL BE THIN-WALL TYPE ELECTRICAL METALLIC TUBING FOR SIZES UP TO TWO INCHES.
  - 5.c. INTERMEDIATE METAL CONDUIT SHALL BE PERMITTED IN LIEU OF RIGID WHERE ALLOWED IN ARTICLE 345 OF THE NEC.
  - 5.d. MINIMUM SIZE CONDUIT SHALL BE ONE-HALF INCH WITH LARGER SIZES AS REQUIRED

BY THE NATIONAL ELECTRICAL CODE FOR NUMBER OF WIRES CONTAINED THEREIN.

- 5.e. RIGID CONDUIT FITTINGS SHALL BE THREADED, EXCEPT WHERE RIGID CHANGES TO EMT ABOVE SLAB, FITTING MAY BE THREADLESS TYPE. ELECTRICAL METALLIC TUBE FITTINGS SHALL BE GALVANIZED STEEL; CAST METAL NOT ACCEPTABLE.
- 5.f. FLEXIBLE CONDUIT SHALL BE GALVANIZED, SINGLE STRIP TYPE. IN AREAS SUBJECT TO MOISTURE, OR WHERE CALLED FOR ON THE DRAWINGS, FLEXIBLE CONDUIT SHALL HAVE PLASTIC COVERING IN ACCORDANCE WITH NEC, ARTICLE 351-A. FITTINGS SHALL BE STANDARD UL APPROVED WITH GROUND CONNECTOR. WATERTIGHT CONNECTORS SHALL BE USED WITH PLASTIC COVERED CONDUIT, FLEXIBLE CONDUIT, MINIMUM 18 INCHES IN LENGTH, SHALL BE USED FOR CONNECTIONS TO MOTORS AND OTHER EQUIPMENT SUBJECT TO VIBRATION, AND FOR CONNECTIONS TO RECESSED OR SEMI-RECESSED FIXTURES.
- 5.g. EXPOSED CONDUITS SHALL BE RUN PARALLEL AND PERPENDICULAR TO BUILDING CONSTRUCTION AND SHALL BE SUPPORTED AS HEREINAFTER SPECIFIED AND IN ACCORDANCE WITH NEC. THE METHODS OF INSTALLATION SHALL BE REVIEWED BY THE ARCHITECT PRIOR TO INSTALLATION.
- 5.h. CONDUIT SUPPORTS SHALL BE APPROVED WALL BRACKETS, TRAPEZE, STRAP HANGER OR PIPE STRAPS SECURED TO HOLLOW MASONRY WITH TOGGLE BOLTS; TO METAL SURFACES WITH MACHINE SCREWS; AND TO WOOD WITH WOOD SCREWS. ANY FORM OF TIE WIRE IS UNACCEPTABLE.
- 5.i. CONDUIT TERMINATIONS ONE AND ONE-QUARTER INCH AND LARGER AND CONDUIT STUBS SHALL HAVE O.Z. TYPE "B" INSULATING BUSHINGS. RIGID CONDUIT TERMINATIONS ONE INCH AND SMALLER SHALL HAVE O.Z. TYPE "A" INSULATING BUSHINGS.
- 5.j. CONDUITS AND CABLES PASSING THROUGH FIRE RATED ASSEMBLIES SHALL BE SEALED BY APPROVED METHODS OR BY INSTALLING O.Z. FIRE-SEALS TO MAINTAIN "UL" CLASSIFIED FIRE RATING.
6. RECEPTACLE BOXES
  - 6.a. RECEPTACLE BOXES SHALL BE HOT DIPPED GALVANIZED STEEL TYPE WITH STANDARD KNOCKOUTS AS REQUIRED FOR CONDUIT TERMINATION. MINIMUM SIZE OF RECEPTACLE BOX SHALL BE FOUR INCHES SQUARE, ONE AND ONE-QUARTER INCHES DEEP. RECEPTACLE BOXES FOR EXPOSED TILE AND BLOCK SHALL BE PROVIDED WITH SQUARE CORNERED TILE RING, SIZE AS REQUIRED. WHEN USING ROMEX, TYPE NM CABLE BOXES SHALL BE MOLDED PLASTIC OR FIBER STYLE.
  - 6.b. RECEPTACLE BOXES OCCURRING IN FINISHED OUTSIDE WALLS AND WET AREAS SHALL BE CAST AND PROVIDED WITH GASKETS BETWEEN BOX AND WATERPROOF "IN-USE" COVER.
7. WIRING DEVICES
  - 7.a. WIRING DEVICES SHALL BE AS MANUFACTURED BY LEVITON, ARROW-HART, BRYANT, PASS AND SEYMOUR, OR HUBBELL.
  - 7.b. DEVICE PLATES SHALL BE STAINLESS STEEL TYPE 302 ON FINISHED WALLS AS REQUIRED.
  - 7.c. DEVICES SHALL BE GREY.
8. DISCONNECT SWITCHES
  - 8.a. SWITCHES SHALL NEMA TYPE "GD" OR "HD" AS REQUIRED. FUSED SWITCHES SHALL BE NEMA TYPE "HD" UNLESS OTHERWISE INDICATED, WITH CLASS "R" FUSE CLIPS. MAIN DISCONNECT SWITCHES AND SWITCHES RATED 600 VOLTS SHALL BE TYPE "HD" AND HAVE FULL COVER INTERLOCKS AND QUICK-MAKE, QUICK-BREAK MECHANISM.
  - 8.b. FUSED SWITCHES SHALL BE PROVIDED COMPLETE WITH FUSES.
  - 8.c. SWITCHES SHALL BE SQUARE D, GENERAL ELECTRIC, I.T.E., OR WESTINGHOUSE.
  - 8.d. SWITCHES SHALL BE SECURELY MOUNTED TO WALL, STRUCTURE, OR EQUIPMENT. PROVIDE MISCELLANEOUS ACCESSORIES FOR MOUNTING SWITCHES, INCLUDING STEEL ANGLES WHERE REQUIRED.
9. FUSES
  - 9.a. FUSES FOR PROTECTION OF MECHANICAL AND PLUMBING EQUIPMENT SHALL BE "FUSETRON" UL CLASS "RK5" SIZED PER MANUFACTURERS RECOMMENDATION, UNLESS OTHERWISE INDICATED.
10. WIRE AND CABLE
  - 10.a. WIRE AND CABLE SHALL BE TYPE NM (ROMEX) OR MC CABLE..
  - 10.b. WIRE AND CABLE SHALL BE GENERAL ELECTRIC, ANACONDA, ROME, GENERAL CABLE, OR PHELPS DODGE.
  - 10.c. WIRE AND CABLE SHALL BE COPPER 600 VOLT INSULATION, MINIMUM SIZE NO. 12, TYPE "THW", "THWN" OR "THHN" AS APPLICABLE, UNLESS OTHERWISE INDICATED ON DRAWINGS.
  - 10.d. WIRES NO. 10 AND 12 AWG SHALL BE CONNECTED WITH COIL SPRING INSERT "WIRE-NUT" OR "WING-NUT" CONNECTORS MANUFACTURED BY IDEAL INDUSTRIES OR APPROVED EQUAL. CONNECTORS SHALL BE RATED 600 VOLTS. COPPER WIRES NO. 8 AND LARGER SHALL BE JOINED OR TERMINATED WITH PRESSURE TYPE COPPER CONNECTORS.
  - 10.e. WIRE SHALL BE COLOR CODED AS FOLLOWS:
    - 10.e.a. 120/240 VOLT SYSTEM
    - 10.e.a. PHASE A - BLACK
    - 10.e.b. PHASE B - RED
    - 10.e.c. NEUTRAL - WHITE
    - 10.e.d. GROUND - GREEN
  - 10.f. ELECTRICAL DESIGNS ARE BASED ON COPPER WIRE AND CABLE. (ALUMINUM WIRE AND CABLE SHALL BE PERMITTED FOR FEEDERS AND BRANCH CIRCUITS 40AMPS AND ABOVE.)

11. LIGHTING FIXTURES
  - 11.a. LIGHTING FIXTURES SHALL BE PROVIDED COMPLETE WITH LAMPS, MOUNTING HARDWARE AND ACCESSORIES.
  - 11.b. WHERE RECESSED LIGHTING FIXTURES ARE INDICATED, THIS CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE TYPE FIXTURES WITH THE ACTUAL CEILING BEING INSTALLED. THIS SHALL INCLUDE CHANGES RESULTING FROM ALTERNATE BID ITEMS, CHANGE ORDERS, ETC.
  - 11.c. SURFACE MOUNTED LED LIGHTING FIXTURES SHALL BE MOUNTED INDEPENDENT OF CEILING CONSTRUCTION. LED LIGHTING FIXTURES MOUNTED IN OR ON PLASTER CEILING SHALL ALSO BE MOUNTED INDEPENDENT OF CEILING CONSTRUCTION. WHERE RECESSED LED LIGHTING FIXTURES OCCUR IN LAY-IN TILE OR CONCEALED SPLINE CEILINGS, THE ELECTRICAL CONTRACTOR SHALL INSTALL FIXTURES IN ACCORDANCE WITH ARTICLE 410-16(C) OF NEC AND HAVE THE CEILING CONTRACTOR INSTALL ADDITIONAL SUPPORTING HANGERS WHERE FIXTURES OCCUR, OR SUPPORT FIXTURES INDEPENDENTLY OF CEILING.
  - 11.d. FIXTURES SUPPORTED INDEPENDENTLY OF CEILING SHALL BE HUNG BY STEEL CHANNEL, THREADED RODS AND NUTS, OR AS APPROVED.
  - 11.e. INSULATION SHALL NOT BE PLACED ON TOP OF RECESSED LIGHTING FIXTURES.
12. CUTTING AND PATCHING
  - 12.a. CUTTING, DRILLING, AND CHANNELING REQUIRED FOR THIS WORK SHALL BE DONE UNDER THIS SECTION BY SKILLED MECHANICS OF TRADE INVOLVED.
13. EQUIPMENT MARKING AND PAINTING
  - 13.a. SAFETY SWITCHES, CABINETS, ETC., SHALL BE PROVIDED WITH PERMANENTLY ATTACHED (ADHESIVES NOT ACCEPTABLE) ENGRAVED BAKELITE DESIGNATION PLATES TO INDICATE EQUIPMENT OR CIRCUIT CONTROLLED.
  - 13.b. EXPOSED CONDUIT, SUPPORTS, HANGERS, AND UNFINISHED EQUIPMENT SHALL RECEIVE A MINIMUM OF TWO COATS OF PAINT SUITABLE FOR SERVICE INTENDED. COLORS SHALL BE AS SELECTED OR APPROVED BY THE ARCHITECT.
14. ACCESS DOORS
  - 14.a. THIS CONTRACTOR SHALL FURNISH, AND THE GENERAL CONTRACTOR SHALL INSTALL STEEL ACCESS DOORS WHERE REQUIRED, STYLE NECESSARY FOR SURFACE IN WHICH PLACED. SUBMIT SHOP DRAWINGS OF PROPOSED MATERIAL, INSTALLATION AND EXACT LOCATIONS TO THE ARCHITECT FOR APPROVAL.
15. SUBSTANTIAL COMPLETION
  - 15.a. UPON COMPLETION OF THE ENTIRE WORK, THE CONTRACTOR SHALL PERFORM SUCH TESTS AS REQUIRED BY THE ARCHITECT. THE ARCHITECT SHALL BE GIVEN 48 HOURS NOTICE BEFORE TESTS ARE MADE. THE CONTRACTOR SHALL FURNISH THE ARCHITECT A CERTIFICATE OF APPROVAL FROM THE LOCAL INSPECTION AUTHORITY HAVING JURISDICTION.
16. WARRANTY
  - 16.a. CONTRACTOR SHALL FURNISH WRITTEN WARRANTY, COUNTERSIGNED, AND GUARANTEED BY THE GENERAL CONTRACTOR, STATING THAT THE WORK EXECUTED UNDER THIS DIVISION OF THE SPECIFICATIONS SHALL BE FREE FROM DEFECTS OF MATERIAL AND WORKMANSHIP FOR A PERIOD OF 12 MONTHS FROM DATE OF FINAL ACCEPTANCE. DEFECTS DEVELOPING DURING THAT PERIOD SHALL BE CORRECTED WITHOUT COST TO THE OWNER.

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PROJECT NAME:  
**ATTENDANT  
 BUILDING**  
 North Boyd  
 Beaufort County  
 North Carolina

REVISIONS:	DATE:
ISSUED FOR BID	3 / 30 / 26

DRAWING NAME:  
 ELECTRICAL SPECIFICATIONS

**ISSUED FOR  
 BID**

DRAWN BY: **BPM**

DATE: **03/30/2026**

SCALE: **NONE**

STAMP:  


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SHEET:  
**E7.1**