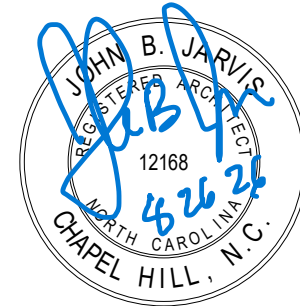
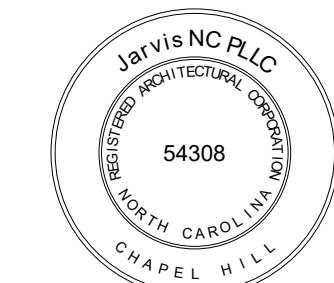


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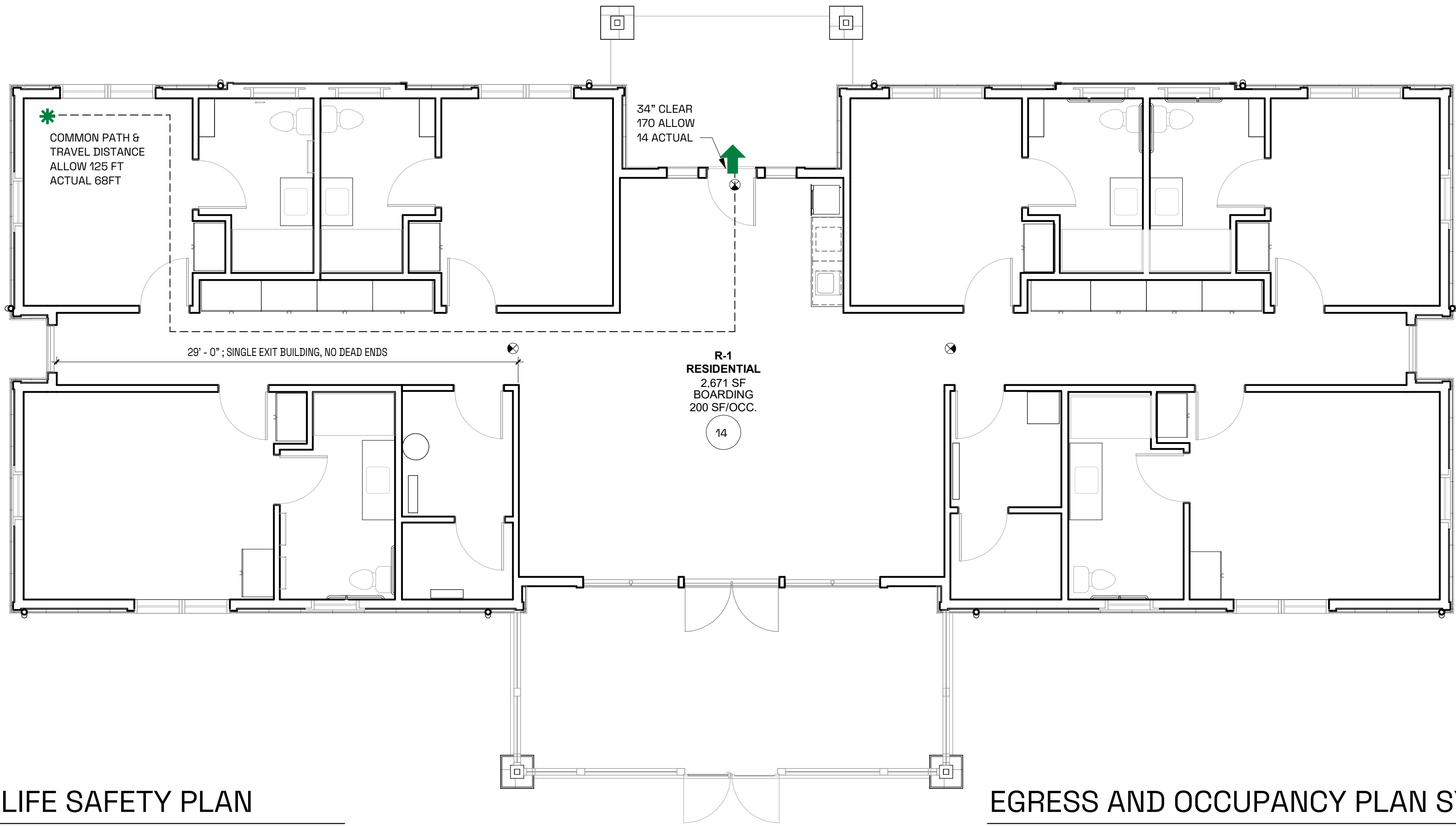
West Key Consulting Corporation
4008 BARRETT DRIVE, SUITE 204
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T:919.881.8020
westkeyconsulting.com

Kaydos Daniels Engineers
718 W LANE ST
RALEIGH, NC 27603
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GENERAL NOTES

1. THE CONTRACT DOCUMENTS INCLUDE THE WORKING DRAWINGS, MODIFICATIONS, THE CONDITIONS OF THE CONSTRUCTION CONTRACT, AND SPECIFICATIONS ON THE DRAWINGS.
2. "PROVIDE" MEANS FURNISH AND INSTALL, COMPLETE AND IN PLACE.
3. "SIMILAR" MEANS COMPATIBLE CHARACTERISTICS FOR CONDITIONS NOTED. CONTRACTOR TO VERIFY DIMENSIONS AND ORIENTATION.
4. "TYPICAL" MEANS IDENTICAL FOR CONDITIONS NOTED.
5. DO NOT SCALE DRAWINGS; DIMENSIONS GOVERN. VERIFY DIMENSIONS WITH FIELD CONDITIONS. IF DISCREPANCIES ARE DISCOVERED BETWEEN FIELD CONDITIONS AND DRAWINGS OR BETWEEN DRAWINGS, CONTACT ARCHITECT FOR RESOLUTION BEFORE PROCEEDING.
6. VERTICAL DIMENSIONS ARE FROM TOP OF FLOOR SLAB OR DECK, EXCEPT WHERE NOTED TO BE ABOVE FINISH FLOOR (AFF).
7. DIMENSIONS ARE NOT ADJUSTABLE WITHOUT APPROVAL OF ARCHITECT UNLESS NOTED (+/-).
8. WORK SHALL BE ERECTED AND INSTALLED PLUMB, LEVEL, SQUARE, AND TRUE AND IN PROPER ALIGNMENT.
9. CUT AND FIT COMPONENTS FOR ALTERATIONS OF EXISTING WORK AND INSTALLATION OF NEW WORK, PATCH DISTURBED AREAS TO MATCH ADJACENT MATERIALS AND FINISHES.
10. COORDINATE ITEMS TO BE FURNISHED OR INSTALLED BY OWNER. PROVIDE PROTECTION FOR THESE PROVISIONS UNTIL COMPLETION OF THE PROJECT. GENERAL CONTRACTOR TO COORDINATE N.I.C. ITEMS WITH APPROPRIATE TRADES.
11. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR CHECKING CONTRACT DOCUMENTS, FIELD CONDITIONS, AND DIMENSIONS FOR ACCURACY AND CONFIRMING THAT WORK CAN BE CONSTRUCTED AS SHOWN BEFORE PROCEEDING WITH CONSTRUCTION. CLARIFICATIONS REGARDING ANY CONFLICTS SHALL BE ACHIEVED BEFORE RELATED WORK IS STARTED.
12. GENERAL CONTRACTOR SHALL PROVIDE MANUFACTURER'S SPECIFICATIONS INSTALLATION INSTRUCTIONS, SHOP DRAWINGS AND SAMPLES FOR REVIEW AS NOTED.
13. THE AIA "GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION," AIA DOCUMENT A201, PUBLISHED BY THE AMERICAN INSTITUTE OF ARCHITECTS, HEREIN AFTER REFERRED TO AS "GENERAL CONDITIONS," IS HEREBY MADE PART OF THE CONTRACT DOCUMENTS THE SAME AS IF BOUND HEREIN.
14. EXERCISE EXTREME CARE AND PRECAUTION DURING CONSTRUCTION OF THE WORK TO MINIMIZE DISTURBANCES TO ADJACENT STRUCTURES AND THEIR OCCUPANTS, PROPERTY, PUBLIC THOROUGHFARES, ETC. CONTRACTOR SHALL TAKE PRECAUTIONS AND BE RESPONSIBLE FOR THE SAFETY OF ALL BUILDING OCCUPANTS FROM CONSTRUCTION PROCEDURES.
15. REFERENCE TO MAKES, BRANDS, ETC. IS TO ESTABLISH TYPE AND QUALITY DESIRED; SUBSTITUTIONS OF ACCEPTABLE EQUALS WILL NOT BE PERMITTED UNLESS SPECIFICALLY NOTED OTHERWISE WHEN MADE ACCORDING TO PROCEDURES FOR SUBSTITUTIONS.
16. ONLY NEW ITEMS OF RECENT MANUFACTURE, OF STANDARD QUALITY, FREE FROM DEFECTS WILL BE PERMITTED ON THE WORK. REJECTED ITEMS SHALL BE REMOVED IMMEDIATELY FROM THE WORK AND BE REPLACED WITH ITEMS OF THE QUALITY SPECIFIED. FAILURE TO REMOVE REJECTED ITEMS AND EQUIPMENT SHALL NOT RELIEVE THE CONTRACTOR FROM THE RESPONSIBILITY FOR QUALITY AND CHARACTER OF ITEMS USED NOR FROM ANY OTHER OBLIGATION IMPOSED BY THE CONTRACT.
17. ATTACHMENTS, CONNECTIONS, OR FASTENERS OF ANY NATURE ARE TO BE PROPERLY AND PERMANENTLY SECURED IN CONFORMANCE WITH BEST PRACTICE AND THE CONTRACTOR IS RESPONSIBLE FOR IMPROVING THEM ACCORDINGLY AND TO THESE CONDITIONS. THE DRAWINGS SHOW ONLY SPECIAL CONDITIONS TO ASSIST CONTRACTOR; THEY DO NOT ILLUSTRATE EVERY SUCH DETAIL.
18. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE DIMENSIONS AND ELEVATIONS AT THE SITE. THE CONTRACTOR AND SUB-CONTRACTORS SHALL COORDINATE THE LAYOUT AND EXACT LOCATIONS OF ALL PARTITIONING, DOORS, ELECTRICAL/TELEPHONE OUTLETS, LIGHT SWITCHES AND THERMOSTATS WITH THE ARCHITECT IN THE FIELD BEFORE PROCEEDING WITH CONSTRUCTION.
19. NO WORK DEFECTIVE IN CONSTRUCTION OR QUALITY OR DEFICIENT IN ANY REQUIREMENTS OF DRAWINGS AND SPECIFICATIONS WILL BE ACCEPTABLE IN CONSEQUENCE OF OWNER'S OR ARCHITECT'S FAILURE TO DISCOVER OR TO POINT OUT DEFECTS OR DEFICIENCIES DURING CONSTRUCTION; NOR WILL PRESENCE OF INSPECTORS ON WORK SITE RELIEVE CONTRACTOR FROM RESPONSIBILITY FOR SECURING QUALITY AND PROGRESS OF WORK AS REQUIRED BY CONTRACT. DEFECTIVE WORK REVEALED WITHIN REQUIRED TIME GUARANTEES SHALL BE REPLACED BY WORK CONFORMING WITH INTENT OF CONTRACT. NO PAYMENT, WHETHER PARTIAL OR FINAL, SHALL BE CONSTRUED AS AN ACCEPTANCE OF DEFECTIVE WORK OR IMPROPER MATERIALS.
20. MATERIALS AND WORKMANSHIP SPECIFIED BY REFERENCE TO NUMBER, SYMBOL, TITLE OF SPECIFICATION SUCH AS COMMERCIAL STANDARDS, FEDERAL SPECIFICATIONS, TRADE ASSOCIATION STANDARD OR OTHER SIMILAR STANDARD, SHALL COMPLY WITH REQUIREMENTS IN LATEST EDITION OR REVISION THEREOF AND WITH ANY AMENDMENT OR SUPPLEMENT THERETO IN EFFECT ON DATE OF ORIGIN OF THIS PROJECT'S CONTRACT DOCUMENTS. SUCH STANDARDS, EXCEPT AS MODIFIED HEREIN, SHALL HAVE FULL FORCE EFFECTS AS THOUGH PRINTED IN CONTRACT DOCUMENTS.
21. CONTRACTOR SHALL WAIVE "COMMON PRACTICE" AND "COMMON USAGE" AS CONSTRUCTION CRITERIA WHEREVER DETAILS AND CONTRACT DOCUMENTS OR GOVERNING CODES, ORDINANCES, ETC. REQUIRE GREATER QUANTITY OR BETTER QUALITY THAN COMMON PRACTICE OR COMMON USAGE.
22. IF AT ANY TIME BEFORE COMMENCEMENT OF WORK, OR DURING PROGRESS THEREOF, CONTRACTOR'S METHODS, EQUIPMENT, OR APPLIANCES ARE INEFFICIENT OR INAPPROPRIATE FOR SECURING QUALITY OF WORK OR RATE OF PROGRESS INTENDED BY CONTRACT DOCUMENTS, OWNER MAY ORDER CONTRACTOR TO IMPROVE THEIR QUALITY OR INCREASE EFFICIENCY. THIS WILL NOT RELIEVE CONTRACTOR OF SURETIES FROM THEIR OBLIGATIONS TO SECURE QUALITY OF WORK AND RATE OF PROGRESS SPECIFIED IN CONTRACT.
23. CONTRACTOR SHALL APPLY FOR, PAY FOR, AND OBTAIN ALL REQUIRED PERMITS FOR CONSTRUCTION AND OCCUPANCY.



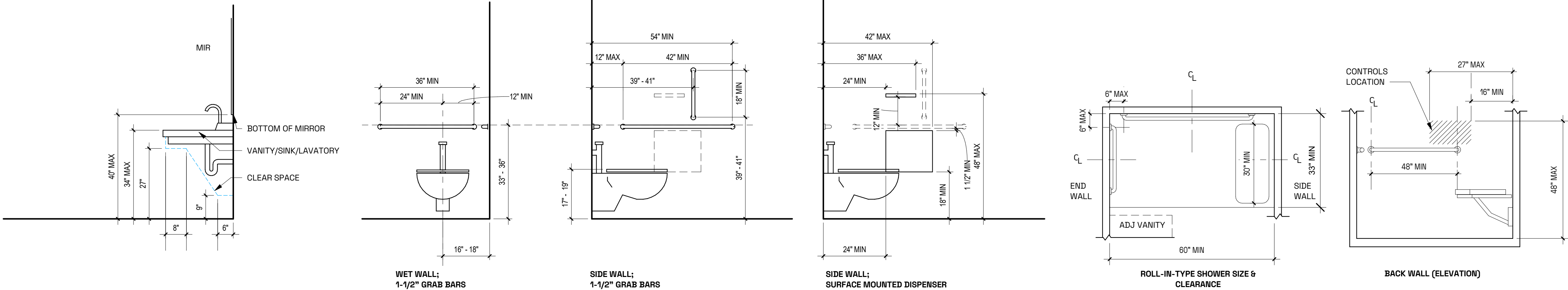
1 LIFE SAFETY PLAN

SCALE 3/16" = 1'-0"

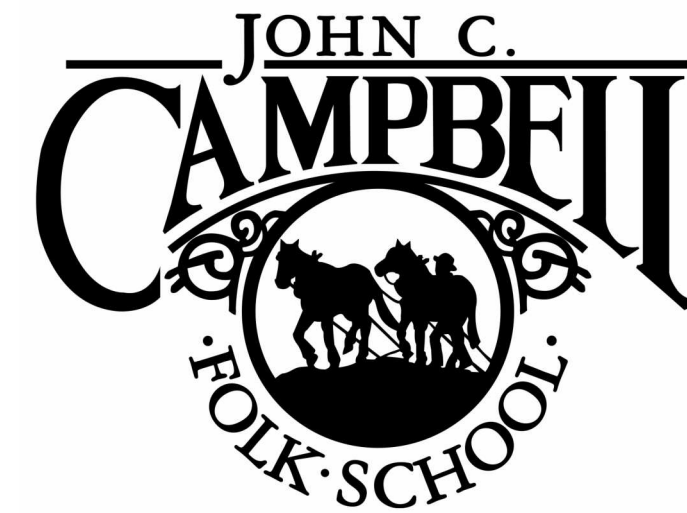
EGRESS AND OCCUPANCY PLAN SYMBOLS

- FEC FIRE EXTINGUISHER AND CABINET
EXIT SIGN
EXTERIOR EXIT DISCHARGE

MOUNTING HEIGHTS



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ACCESSIBLE HOUSING

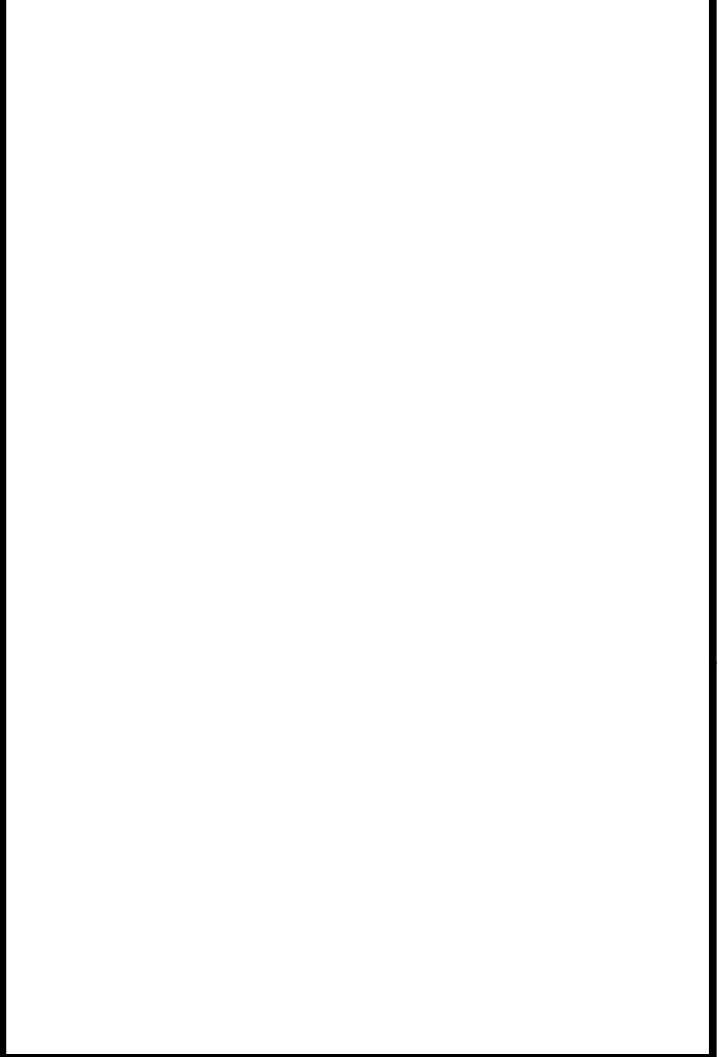
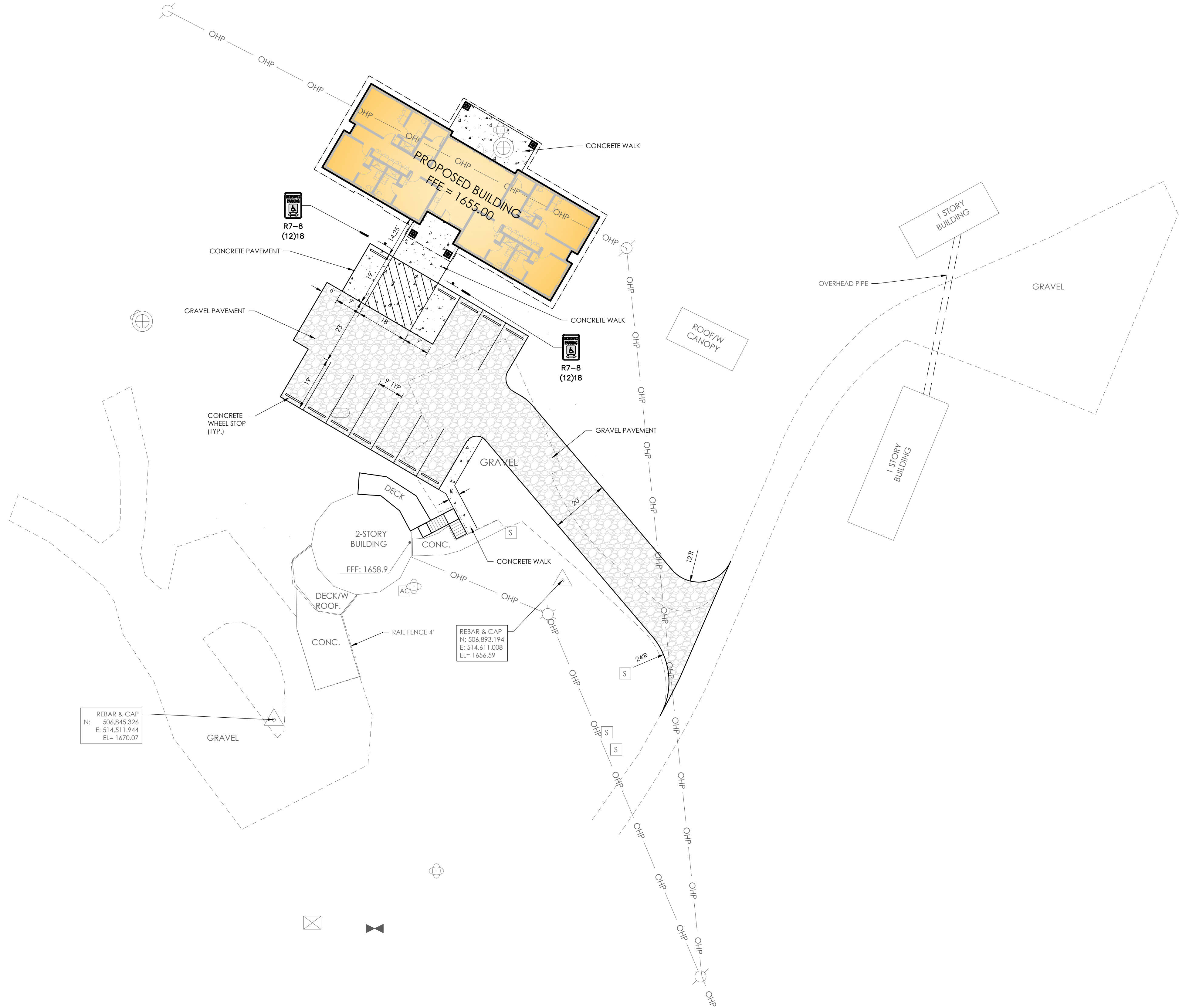
ONE FOLK SCHOOL RD
BRASSTOWN, NC 28602
JOB NO: 26162

LIFE SAFETY PLAN & GENERAL NOTES

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NO.	REVISIONS	BY	DATE



THOMAS & HUTTON

1111 Metropolitan Avenue • Suite 500
Charlotte, NC 28204 • 980.201.5505
www.thomasandhutton.com

SITE PLAN

**JOHN C CAMPBELL FOLK
SCHOOL RESIDENCE**

PROJECT LOCATION:
Cherokee County, NC

CLIENT/OWNER:
Alliance Architecture
208 Rigsbee Ave
Durham, NC 27701

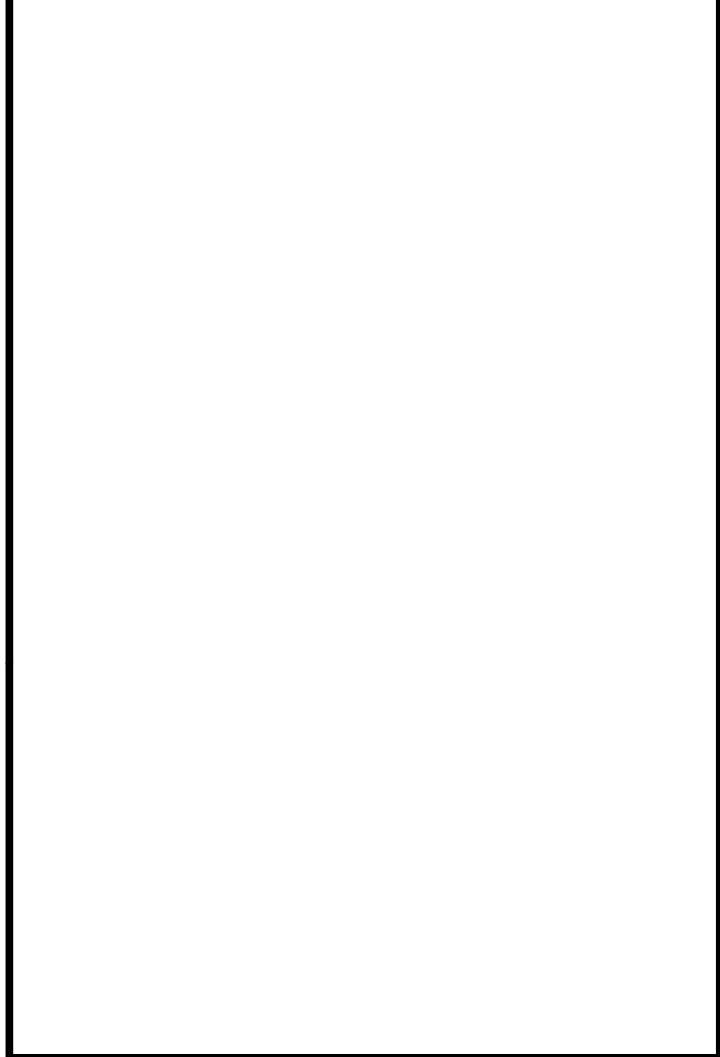
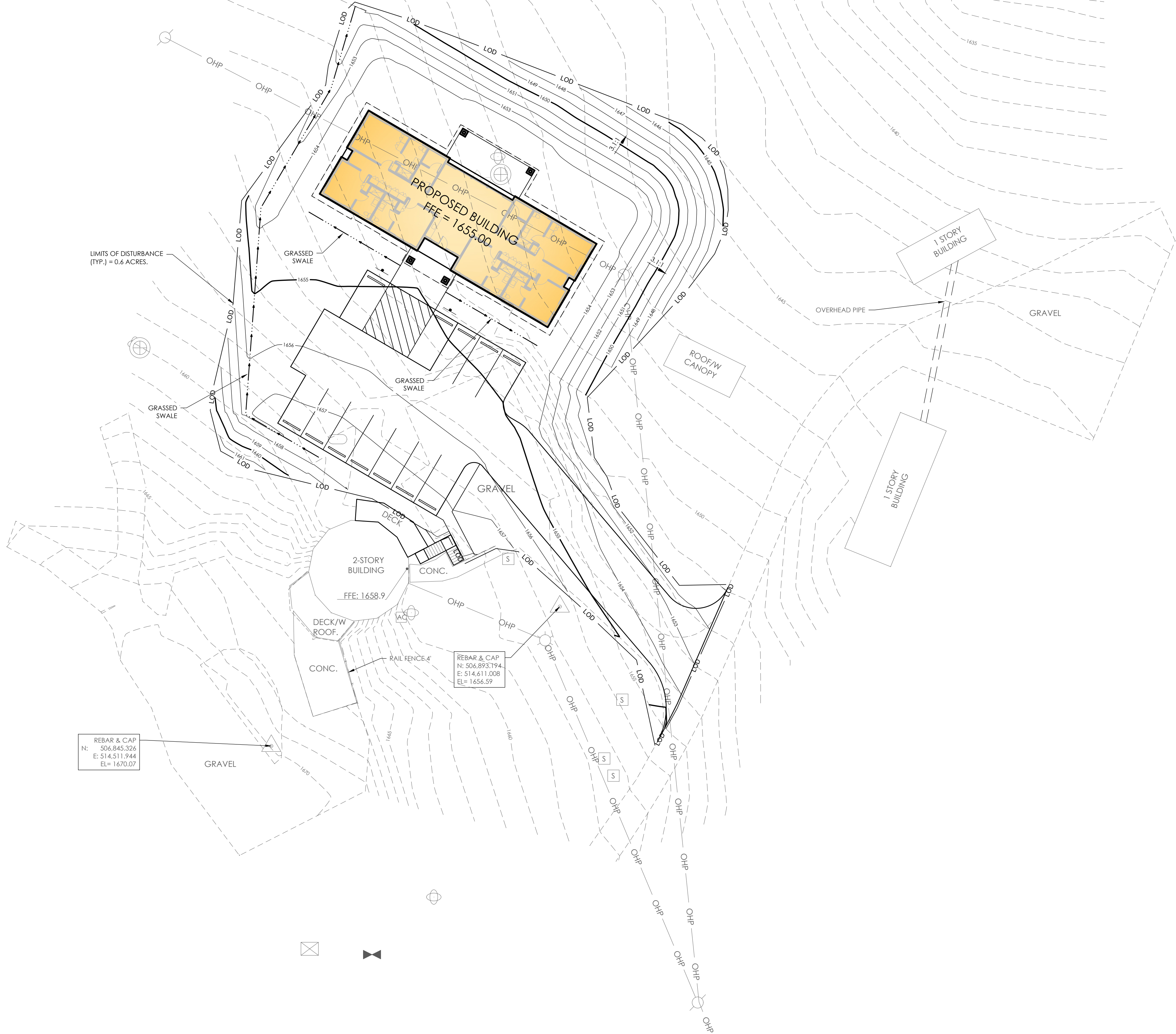
 
1 INCH = 20 FEET

DATUM: HORIZ.: NAD 83 (2011) VERT.: NAVD 88

JOB NO:	34333.0000
DATE:	08/25/26
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DESIGNED:	SHD
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APPROVED:	JIS
SCALE:	1" = 20'

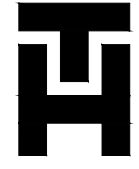
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NO.	REVISIONS	BY	DATE





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HUTTON**

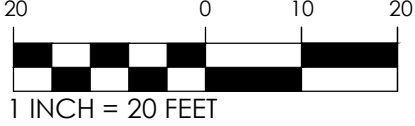
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Charlotte, NC 28204 • 980.201.5505
www.thomasandhutton.com

GRADING PLAN

JOHN C CAMPBELL FOLK
SCHOOL RESIDENCE

PROJECT LOCATION:
Cherokee County, NC

CLIENT/OWNER:
Alliance Architecture
208 Riggsbee Ave
Durham, NC 27701



DATUM: HORIZ.: NAD 83 (2011) VERT.: NAVD 88

JOB NO: 34333.0000
DATE: 08/25/26
DRAWN: SHD
DESIGNED: SHD
REVIEWED: JIS
APPROVED: JIS
SCALE: 1" = 20'

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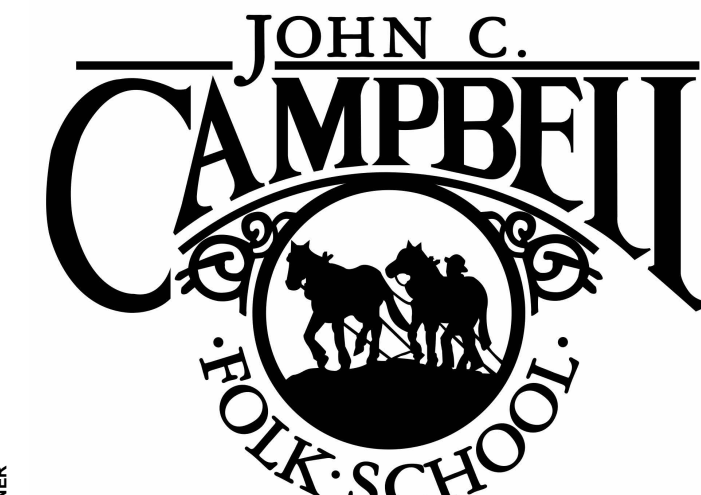


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NO DATE DESCRIPTION



ACCESSIBLE HOUSING

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BRASSTOWN, NC 28602
JOB NO: 26162

GENERAL NOTES

S0.01

08.26.2026

GENERAL NOTES:

- THE PROJECT SPECIFICATIONS (A BOOK OF SPECIFICATIONS WHEN PROVIDED) ARE A PART OF THE CONTRACT DOCUMENTS. IF THERE IS A DISCREPANCY FOUND BETWEEN THE SPECIFICATIONS AND THE DRAWINGS, SPECIFICATIONS TAKE PRECEDENCE, HOWEVER THE MATTER SHALL BE PROMPTLY SUBMITTED TO THE SEOR FOR CLARIFICATION. ANY WORK PERFORMED BY THE CONTRACTOR WITHOUT SUCH A CLARIFICATION SHALL BE AT CONTRACTOR'S OWN RISK AND EXPENSE.
- EXAMINE THE STRUCTURAL DRAWINGS AND THE SPECIFICATIONS AND NOTIFY THE ENGINEER & ARCHITECT OF ANY DISCREPANCIES IN ELEVATIONS, DIMENSIONS, AND SITE CONDITIONS INCLUDING ERRORS BEFORE PROCEEDING WITH ANY WORK. OMISSIONS AND CONFLICTS BETWEEN THE VARIOUS ELEMENTS OF THE DRAWINGS (AND SPECIFICATIONS) SHALL BE RESOLVED IN WRITING WITH THE ENGINEER/ARCHITECT PRIOR TO START OF WORK.
- THE DRAWINGS (AND SPECIFICATIONS) REPRESENT THE COMPLETED STRUCTURE. THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION. PROVIDE ALL MEASURES AND MEANS NECESSARY TO PROTECT PERSONS AND THE STRUCTURE DURING CONSTRUCTION. SUCH MEASURES SHALL INCLUDE, BUT NOT BE LIMITED TO BRACING, SHORING, ETC. OBSERVATION VISITS BY THE ARCHITECT OR ENGINEER DOES NOT INCLUDE REVIEW OF THESE MEASURES.
- TYPICAL DETAILS SHALL BE USED WHENEVER APPLICABLE WHETHER SPECIFICALLY REFERENCED OR NOT.
- DRAWINGS SHALL NOT BE SCALED FOR CONSTRUCTION PURPOSES.
- NO PIPES OR DUCTS SHALL BE PLACED IN STRUCTURAL MEMBERS UNLESS SPECIFICALLY DETAILED OR APPROVED BY THE ENGINEER & ARCHITECT.
- REFER TO ARCHITECTURAL DRAWINGS FOR THE FOLLOWING:
 - SIZE AND LOCATION OF ALL DOOR AND WINDOW OPENINGS, UNLESS OTHERWISE NOTED.
 - SIZE AND LOCATION OF INTERIOR AND EXTERIOR NON-BEARING PARTITIONS.
 - SIZE AND LOCATION OF CURBS, FLOOR DRAINS, SLOPES, DEPRESSED AREAS, CHANGES IN LEVEL, RAMPS, CHAMFERS, GROOVES, INSERTS, ETC., EXCEPT AS SHOWN.
 - SIZE AND LOCATION OF FLOOR AND ROOF OPENINGS, EXCEPT AS SHOWN.
 - FLOOR AND ROOF FINISHES.
 - STAIR FRAMING AND DETAILS, EXCEPT AS SHOWN.
 - DIMENSIONS NOT SHOWN ON STRUCTURAL DRAWINGS.
- REFER TO MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS FOR THE FOLLOWING:
 - PIPE RUNS, SLEEVES, HANGERS, TRENCHES, SLAB OPENINGS, ETC., EXCEPT AS SHOWN OR NOTED.
 - ELECTRICAL CONDUITS, BOXES, OUTLETS.
 - CONCRETE INSERTS FOR ELECTRICAL, MECHANICAL, AND PLUMBING FIXTURES.
 - SIZE AND LOCATION OF MACHINE AND EQUIPMENT BASES, ANCHOR BOLTS, ETC.
- ASTM REFERENCES ARE FROM THE LATEST ISSUE AND LATEST REVISION, UNLESS NOTED OTHERWISE.
- INVESTIGATE THE SITE DURING CLEARING AND EXCAVATION FOR UNSUITABLE CONDITIONS, UNCONSOLIDATED AND UNDOCUMENTED FILLS, BURIED STRUCTURES, UTILITIES, ETC., AND IMMEDIATELY NOTIFY THE ARCHITECT/ENGINEER OF ANY SITE CONDITIONS NOT REFLECTED ON THE DRAWINGS OR DIFFERENT FROM MAXIMUM OR MINIMUM DIMENSIONS INDICATED, INCLUDING CONFLICT IN GRADES, ADVERSE SOIL CONDITIONS, GROUNDWATER PRESENT, DEEPEENED FOOTINGS, UNCOVERED AND UNEXPECTED UTILITY LINES, ETC.
- CONSTRUCTION MATERIALS - IF PLACED ON STRUCTURAL MEMBERS, SHALL BE SPREAD OUT SUCH THAT THE LOADING DOES NOT EXCEED THE DESIGN LIVE LOADS. PROVIDE SHORING AND BRACING WHERE CONSTRUCTION LOADING EXCEEDS THE DESIGN STRENGTH OF THE STRUCTURAL MEMBERS OR THE STRENGTH OF THE STRUCTURE HAS NOT BEEN ATTAINED OR THE STRUCTURE IS NOT COMPLETE.
- DETERMINE THE LOCATION OF UTILITY SERVICES IN AREAS TO BE EXCAVATED BEFORE BEGINNING EXCAVATION. EXERCISE EXTREME CAUTION IN EXCAVATING AND TRENCHING. DAMAGE CAUSED AS A RESULT OF FAILING TO EXACTLY LOCATE AND PRESERVE ALL EXISTING UNDERGROUND UTILITIES IS THE RESPONSIBILITY OF THE CONTRACTOR.
- THE CAD DRAWING FILES ARE THE PROPERTY OF THE EOR AND WILL NOT BE RELEASED TO THE CONTRACTOR OR SUBCONTRACTOR FOR THEIR USE.
- STRUCTURAL DRAWINGS TO BE USED IN CONJUNCTION WITH ARCHITECTURAL DRAWINGS.

DESIGN CRITERIA:

- BUILDING CODE..... 2018 NORTH CAROLINA STATE BUILDING CODE
- BUILDING CLASSIFICATION CATEGORY (TABLE 1604.5)..... II
- DESIGN LIVE LOADS:
 - ROOF..... 20 PSF
 - ATTIC..... 40 PSF
 - SLAB ON GRADE..... 100 PSF
- SNOW:
 - GROUND SNOW LOAD..... 10 PSF
 - FLAT ROOF SNOW LOAD..... 10 PSF
 - SNOW EXPOSURE FACTOR, Ce..... 1.0
 - IMPORTANCE FACTOR, Is..... 1.0
 - THERMAL FACTOR, Ct..... 1.0
- WIND:
 - ULTIMATE WIND SPEED..... 115 MPH
 - NOMINAL WIND SPEED..... 90 MPH
 - IMPORTANCE FACTOR (UNO), Iw..... 1.0
 - WIND EXPOSURE CATEGORY..... C
 - INTERNAL PRESSURE COEFFICIENT..... +/- 0.18
 - ROOF COMPONENTS AND CLADDING..... +/- 35 PSF
 - WALL COMPONENTS AND CLADDING..... +/- 25 PSF
 - ROOF OVERHANGS..... +/- 40 PSF
- SEISMIC:
 - IMPORTANCE FACTOR, Ie..... 1.0
 - MAPPED SPECTRAL RESPONSE COEFFICIENT, Ss..... 0.343 g
 - MAPPED ONE SECOND SPECTRAL RESPONSE COEFFICIENT, S1..... 0.116 g
 - SITE CLASS..... D (ASSUMED)
 - DESIGN SPECTRAL RESPONSE COEFFICIENT, Sds..... 0.349 g
 - DESIGN ONE SECOND SPECTRAL RESPONSE COEFFICIENT, Sd1..... 0.181 g
 - SEISMIC DESIGN CATEGORY..... C
 - BASIC SEISMIC FORCE RESISTING SYSTEM.....
 - LIGHT FRAME WOOD WALLS WITH STRUCTURAL WOOD SHEAR PANELS
 - SEISMIC BASE SHEAR..... Vx = Vy = 12 k

ADHESIVE, ANCHOR RODS AND REBAR IN HARDENED CONCRETE (EPOXY ANCHORS):

- ALL ADHESIVE ANCHOR INSTALLATIONS SHALL COMPLY WITH MANUFACTURER 'S WRITTEN INSTRUCTIONS AND SPECIFICATIONS, INCLUDING ANY ICC-ES REPORTS.
- DUST SHALL BE BLOWN FROM THE HOLE WITH COMPRESSED AIR TO ENSURE PROPER ANCHOR SEATING DEPTH AND TO PROVIDE A CLEAN BONDING SURFACE. ADDITIONALLY, THE HOLE SHALL BE BRUSHED WITH A NYLON BRUSH THEN BLOWN AGAIN WITH COMPRESSED AIR.
- ADHESIVE SHALL ONLY BE APPLIED TO DRY SURFACES.
- BASE MATERIAL TEMPERATURE MUST BE 40°F OR ABOVE AT TIME OF INSTALLATION. FOR BEST RESULTS, MATERIAL SHOULD BE 70°F-80°F.
- WHEN INSTALLING EPOXY ANCHORS INTO MASONRY, ANCHORS SHALL BE INSTALLED IN SOLID GROUTED CELLS ONLY.
- CHEMICAL ANCHOR SYSTEMS:
 - CONCRETE: USE ONLY ADHESIVE ANCHOR SYSTEMS THAT HAVE BEEN ISSUED AN ICC-ES REPORT IN ACCORDANCE WITH PROVISIONS OF ICC-ES AC308. ANCHOR SYSTEM SHOULD BE APPROVED FOR USE IN CRACKED CONCRETE AND SEISMIC DESIGN CATEGORIES A-F PER SECTION 2.0 OF THE ICC-ES EVALUATION SERVICES REPORT. ANCHOR SYSTEM SHALL BE INSTALLED PER REQUIREMENTS OF THE ICC-ES EVALUATION SERVICES REPORT FOR SPECIFIC ANCHOR, AND AS REQUIRED BY THE MANUFACTURER.
- ALL ANCHOR RODS SHALL BE ASTM 136 THREADED RODS WITH ASTM A563 GRADE A NUTS AND ANSI B18.22.1 TYPE A WASHERS, UNLESS OTHERWISE NOTED. ANCHORS DESIGNATED AS ASTM A193 GRADE B7 THREADED RODS SHALL USE ASTM A563 GRADE DH HEAVY HEX NUTS AND ASTM F436 WASHERS.
- REINFORCEMENT BARS: ASTM A615 GRADE 60 STEEL.
- REMOVED GREASE, OIL, RUST AND ANY OTHER LAITANCE FROM RODS AND DOVELS PRIOR TO INSTALLATION.
- SPECIAL INSPECTION REQUIREMENTS WILL BE DICTATED BY SECTION 4.0 OF THE ICC-ES EVALUATION SERVICES REPORT. ANY SPECIAL INSPECTION SHALL VERIFY ANCHOR TYPE, ANCHOR DIMENSIONS, CONCRETE TYPE, CONCRETE COMPRESSIVE STRENGTH, HOLE DIMENSIONS, ANCHOR SPACINGS, EDGE DISTANCES, SLAB THICKNESS, ANCHOR EMBEDMENT, AND TIGHTENING TORQUE.
- CONTRACTOR'S OPTION TO USE OTHER MANUFACTURER'S PRODUCTS ONLY WITH PRIOR APPROVAL OF THE ENGINEER & ARCHITECT. SUBMIT MANUFACTURER 'S LITERATURE AND PRODUCT INSTALLATION FOR REVIEW.

FOUNDATION:

- FOUNDATION DESIGN IS BASED ON AN ALLOWABLE SOIL BEARING PRESSURE OF 2000 PSF TO BE CONFIRMED DURING CONSTRUCTION BY GEOTECHNICAL ENGINEER.
- GEOTECHNICAL REPORT AND ALL SUPPLEMENTAL REPORTS OR ADDENDA SHALL BE KEPT ON THE JOB SITE AT ALL TIMES.
- FOOTING DEPTHS SHOWN ARE A MINIMUM AND MAY REQUIRE DEEPEENING PER DIRECTION OF THE GEOTECHNICAL ENGINEER.
- FOOTINGS SHALL BEAR ON FIRM UNDISTURBED OR COMPACTED SOIL PER RECOMMENDATIONS OF THE GEOTECHNICAL ENGINEER.
- GEOTECHNICAL ENGINEER SHALL VERIFY IN WRITING TO THE ARCHITECT/ENGINEER THAT SITE GRADING WORK COMPLIES WITH ALL OF THE RECOMMENDATIONS AND CONCLUSIONS OF THE GEOTECHNICAL REPORT. SUBMIT COMPACTION TEST REPORTS FOR ALL FILL BY A QUALIFIED TESTING LAB TO ARCHITECT/ENGINEER BEFORE FOUNDATION PLACEMENT. ALL LOOSE SOIL AND FILL DIRT SHALL BE COMPACTED PER GEOTECHNICAL REPORT AND TO THE SATISFACTION OF THE GEOTECHNICAL ENGINEER TO A MINIMUM OF 95% MAXIMUM DENSITY.
- THE FOOTING EXCAVATIONS SHALL BE KEPT FREE FROM LOOSE MATERIAL AND STANDING WATER AND SHALL BE NEAT AND TRUE TO LINE BEFORE ANY CONCRETE IS PLACED. EXCAVATION SHALL BE CHECKED AND APPROVED BY A QUALIFIED GEOTECHNICAL ENGINEER TO ENSURE COMPLIANCE WITH THE REQUIREMENTS OF THE GEOTECHNICAL REPORT.
- ALL SITE GRADING WORK SHALL BE PERFORMED UNDER THE DIRECT OBSERVATION OF THE GEOTECHNICAL ENGINEER. ANY DEVIATIONS IN SOIL CONDITIONS FROM THOSE DESCRIBED IN THE GEOTECHNICAL REPORT ARE TO BE REPORTED TO THE ARCHITECT/ENGINEER & GEOTECHNICAL ENGINEER IMMEDIATELY.
- UTILITY TRENCH BACKFILL SHALL BE MECHANICALLY COMPACTED IN LAYERS TO THE APPROVAL OF THE GEOTECHNICAL ENGINEER.
- ALL ABANDONED FOOTINGS, UTILITIES, ETC. THAT INTERFERE WITH NEW CONSTRUCTION SHALL BE REMOVED.
- WALL FOOTINGS ARE CONTINUOUS POURED CONCRETE WITH CONTINUOUS REINFORCING PLACED 3" CLEAR OF BOTTOM AND SIDES.
- UNLESS OTHERWISE NOTED, WALL FOOTINGS ARE CENTERED UNDER WALLS AND COLUMN FOOTINGS UNDER COLUMNS.
- PROVIDE FOR DESIGN AND INSTALLATION OF ALL CRIBBING, SHEATHING AND SHORING REQUIRED TO SAFELY RETAIN ALL GRADES.
- PROVIDE FOR DE-WATERING OF EXCAVATIONS FROM SURFACE, GROUND, AND OR SEEPAGE WATER.

STRUCTURAL STEEL:

- THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL SHALL BE IN ACCORDANCE WITH "AISC SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS" AND STEEL CONSTRUCTION MANUAL AISC 360, LATEST ADOPTED EDITION, EXCEPT AS AMENDED IN IBC CHAPTER 22.
- THE SEISMIC DESIGN OF STEEL STRUCTURES SHALL BE IN ACCORDANCE WITH "AISC SEISMIC PROVISIONS FOR STRUCTURAL STEEL BUILDINGS", INCLUDING ALL SUPPLEMENTS AISC 341 EXCEPT AS AMENDED IN IBC CHAPTER 22.
- ALL CONNECTIONS SHALL BE DETAILED IN ACCORDANCE WITH LATEST EDITION OF AISC "DETAILING FOR STEEL CONSTRUCTION", DESIGN CONNECTIONS FOR HALF OF THE TOTAL UNIFORM LOAD PER AISC TABLES (UNO).
- STEEL FURNISHED FOR STRUCTURAL LOAD-CARRYING PURPOSES SHALL BE PROPERLY IDENTIFIED FOR CONFORMITY TO THE SPECIFIED GRADES SHOWN BELOW AND IN ACCORDANCE WITH ASTM STANDARDS AND PROVISIONS OF IBC CHAPTER 22. STEEL THAT IS NOT READILY IDENTIFIABLE AS TO GRADE FROM MARKING AND TEST RECORDS SHALL BE TESTED TO DETERMINE CONFORMITY TO:
 - WIDE FLANGE ASTM A992 (Fy = 50 ksi)
 - ANGLES AND CHANNELS ASTM A36 (Fy = 36 ksi)
 - PLATES ASTM A36 (Fy = 36 ksi)
 - HSS (RECTANGULAR) ASTM A500 GRADE B (Fy = 46 ksi)
 - ANCHOR BOLTS ASTM F1554 GRADE 55
- ALL COLUMN ENDS TO BE MILLED.
- ALL EXTERIOR STRUCTURAL STEEL PERMANENTLY EXPOSED TO THE WEATHER SHALL BE GALVANIZED OR GALVANIZED AFTER FABRICATION. ZINC COATING SHALL CONFORM TO ASTM A123 (G-60, UNO).
- ALL WELDING DONE AFTER GALVANIZING SHALL BE PROTECTED WITH TWO COATS OF "GALVALLOY", OR EQUAL. CONTRACTOR TO USE VENTILATION WHILE PERFORMING THIS WORK AS REQUIRED BY OSHA.
- ALL STEEL FABRICATION SHALL BE PERFORMED IN AN APPROVED FABRICATION SHOP.
- STEEL FABRICATOR SHALL VERIFY ALL DIMENSIONS WITH ARCHITECTURAL AND STRUCTURAL DRAWINGS.
- ALL METAL ITEMS, INCLUDING CONNECTORS, EXPOSED TO THE WEATHER SHALL BE HOT-DIPPED GALVANIZED AFTER FABRICATION.
- STRUCTURAL STEEL SHALL BE DELIVERED TO THE JOB SITE FREE OF EXCESSIVE RUST, MILL SCALE, GREASE, ETC.
- SUBMIT SHOP DRAWINGS TO THE STRUCTURAL ENGINEER FOR REVIEW PRIOR TO FABRICATIONS FOR ALL STRUCTURAL STEEL MEMBERS AND ACCESSORIES. SHOP DRAWINGS SHALL INCLUDE CONNECTION DESIGN AND SHALL BE SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF NORTH CAROLINA.
- ALL EXPOSED STRUCTURAL STEEL SHALL HAVE FINISHES PER AISC ARCHITECTURALLY EXPOSED STRUCTURAL STEEL SPECIFICATIONS.

CONCRETE:

- CEMENT SHALL CONFORM TO ASTM C150, TYPE I / II.
- AGGREGATES FOR NORMAL WEIGHT CONCRETE SHALL CONFORM TO ASTM C44, 1 1/2" MAXIMUM SIZE.
- ADMIXTURES MAY NOT BE USED WITHOUT PRIOR APPROVAL OF THE ENGINEER. ADMIXTURES USED TO INCREASE THE WORKABILITY OF THE CONCRETE SHALL NOT REDUCE THE STRENGTH OF CONCRETE. FLY ASH (POZZOLAN) IF PERMITTED BY SPECIFICATIONS SHALL NOT EXCEED 25% FOR SLAB ON GRADE AND 25% FOR ALL OTHER CONCRETE.
- THE MIX DESIGN, INCLUDING PROPORTIONS OF MATERIALS FOR A ONE YARD BATCH, SHALL BE SUBMITTED TO THE ENGINEER OF RECORD & ARCHITECT FOR REVIEW PRIOR TO ORDERING CONCRETE.
- READY-MIX CONCRETE SHALL BE MIXED AND DELIVERED IN ACCORDANCE WITH ASTM C94.
- ALL REINFORCING BARS AND INSERTS SHALL BE SECURED IN PLACE PRIOR TO PLACING CONCRETE.
- CONDUITS EMBEDDED HORIZONTALLY IN THE SLAB SHALL HAVE AN OUTSIDE DIAMETER NO GREATER THAN 1/4 THE THICKNESS OF THE SLAB. CONDUIT SHALL NOT BE EMBEDDED IN A SLAB THAT IS LESS THAN A 1/2" THICK, EXCEPT FOR LOCAL OFFSETS, MINIMUM CLEAR DISTANCE BETWEEN CONDUITS SHALL BE 6".
- NON-STRUCTURAL STEEL MEMBERS EMBEDDED IN CONCRETE SHALL BE GALVANIZED OR PAINTED. ALL DAMAGED GALVANIZED AREAS SHALL BE REPAIRED PRIOR TO EMBEDMENT.
- ALL NORMAL WEIGHT CONCRETE SHALL HAVE A MAXIMUM DRY DENSITY OF 150 pcf. ALL LOW WEIGHT CONCRETE TO HAVE MAXIMUM DENSITY OF 115 pcf.
- MINIMUM CONCRETE COMPRESSIVE STRENGTHS AT 28 DAYS:
 - INTERIOR SLAB ON GRADE: fc (MIN) = 4,000 psi
 - FOOTINGS & ALL OTHER CONCRETE: fc (MIN) = 4,000 psi
- PROVIDE CONSTRUCTION OR CONTROL JOINTS IN SLAB ON GRADE AS SHOWN ON PLANS UNLESS SPECIFIED OTHERWISE. LOCATION OF JOINTS NOT SPECIFICALLY INDICATED SHALL BE REVIEWED BY THE STRUCTURAL ENGINEER & ARCHITECT PRIOR TO PLACING REINFORCING STEEL.
- DRY PACK SHALL BE ONE PART CEMENT AND 2 3/4 PARTS SAND WITH JUST ENOUGH WATER TO HYDRATE CEMENT AND FORM A BALL SHOWING MOISTURE ON THE SURFACE WHEN SQUEEZED. IT SHALL BE RAMMED IN TIGHT TO MAXIMUM DENSITY ATTAINABLE, AND SHALL BE FROM A PRODUCT THAT SPECIFIES A MINIMUM STRENGTH AT 28 DAYS OF 5000 psi.
- NON-SHRINK GROUT SHALL BE FROM A PRODUCT THAT SPECIFIES A MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS OF 7,000 psi PER ASTM C109. GROUTING OF BASE PLATES PRIOR TO PLUMBING OF COLUMN IS NOT PERMITTED.
- PROJECTING CORNERS OF SLABS, BEAMS, WALLS, COLUMNS, ETC., SHALL BE FORMED WITH A 3/4" CHAMFER OR TOOLED EDGE, UNLESS OTHERWISE NOTED.
- ALL CONCRETE WHICH DURING THE LIFE OF THE STRUCTURE WILL BE SUBJECT TO FREEZING TEMPERATURES WHILE WET, SHALL HAVE A WATER CEMENT RATIO NOT EXCEEDING 0.45 BY WEIGHT AND SHALL CONTAIN ENTRAINED AIR PER ACI 614. SUCH CONCRETE SHALL INCLUDE EXTERIOR SLABS, PERIMETER FOUNDATIONS, EXTERIOR CURBS, ETC.

STRUCTURAL WOOD:

- STRUCTURAL WOOD SHALL BE MINIMUM SPRUCE-PINE-FIR #2. ALL STRUCTURAL WOOD SHALL HAVE A MAXIMUM MOISTURE CONTENT OF 19%, UNLESS NOTED OTHERWISE.
- ALL WOOD MEMBERS AND DECKING PERMANENTLY EXPOSED TO WEATHER, SILL PLATES, OR ANY WOOD IN CONTACT WITH CONCRETE OR MASONRY SHALL BE PRESSURE TREATED.
- WOOD MEMBERS SHALL NOT BE CUT FOR PLUMBING OR WIRING UNLESS DETAILED ON THE APPROVED SHOP DRAWINGS.
- FABRICATION AND ERECTION OF WOOD TRUSSES SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF AF&PA 'S NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION, AND ANSI/TPI 1.
- TRUSS MANUFACTURER SHALL FURNISH SHOP DRAWINGS AND DESIGN CALCULATIONS PREPARED BY A PROFESSIONAL ENGINEER LICENSED IN NORTH CAROLINA. SHOP DRAWINGS SHALL INDICATE TRUSS END REACTIONS FOR CONNECTION VERIFICATION BY STRUCTURAL-ENGINEER-OF-RECORD.
- LAMINATED VENEER LUMBER (LVL) SHALL BE MICROLLAM LVL OR EQUIVALENT AND SHALL HAVE THE FOLLOWING MINIMUM MATERIAL PROPERTIES
 - FLEXURAL STRENGTH, Fb = 2,600 psi
 - MODULUS OF ELASTICITY, E = 2,000 ksi

DEFERRED SUBMITTALS:

- THE DEFERRED SUBMITTAL ITEMS SHALL NOT BE INSTALLED UNTIL THEIR DESIGN AND SUBMITTAL DOCUMENTS HAVE BEEN REVIEWED BY THE ARCHITECT OR ENGINEER OF RECORD AND THAT THEY HAVE BEEN FOUND TO BE IN GENERAL CONFORMANCE WITH THE DESIGN OF THE BUILDING.
 - LADDERS, GUARDRAILS, HANDRAILS AND THEIR COMPONENTS
 - SUPPORT ANCHORAGE OF MECHANICAL, ELECTRICAL AND PLUMBING EQUIPMENT AND COMPONENTS
 - WOOD TRUSSES
 - SLAB ON GRADE CONTROL JOINT PLAN (PE SEAL NOT REQUIRED FOR THIS ITEM)
- THE ABOVE LISTED SUBMITTAL DOCUMENTS SHALL BE STAMPED AND SIGNED BY A REGISTERED PROFESSIONAL ENGINEER IN THE STATE OF NORTH CAROLINA.

ABBREVIATIONS

A/C	Air Conditioning	F.O.M	Face of Masonry	P.C.F.	Pounds per Cubic Foot
A.B	Anchor Bolt	F.O.S	Face of Steel (Studs)	PENT.	Penetration
A.C.I.	American Concrete Institute	F.S	Far Side	PEMB.	Pre-Engineered Metal Building
ADJ.	Adjacent	FT.	Feet	PL	Plate, Property Line
A.F.F.	Above Finished Floor	FTG	Footing	P.L	Plate
ALU.	Aluminum	FUT.	Future	PLY.	Plywood
ALT.	Alternate	GA	Gauge	PNL.	Panel
A.P.A.	American Plywood Institute	GAL	Galvanized	P.S.F.	Pounds per Square Foot
ARCH.	Architect	G.B	Grade Beam	P.S.I.	Pounds per Square Inch
A.S.T.M.	American Society for Testing Materials	GB	Grade Beam	P.T.	Pressure Treated
BLW.	Below	GD	Grade, Grading	R.RAD.	Radius
BETWN.	Between	GLB	Glued Laminated	REF.	Reference
BLK.	Block	G.T.	Girder Truss	REINF.	Reinforcement
BLKG	Blocking	GUSS.	Gusset	REQ.	Required
BM	Beam	HD	Hold Down	RET.	Return
B.N.	Boundary Nail	HDR	Header	REV.	Revision, Revised
B.O.F.	Bottom of Footing	HGR	Hanger	RF.	Roof
BOTT	Bottom	HORIZ	Horizontal	RFT.	Rafters
C	Channel	H.P.	High Point	RM.	Room
C.I.P.	Cast-in-Place	HT	Height	R.O.	Rough Opening
C.J.	Control Joint / Ceiling Joist	H.V.A.C	Heating/Ventilation/ Air Conditioning	R.S.	Rough Sawn
CLG	Ceiling	IBC	International Building Code	R.T.	Roof Truss
CLR	Clear	I.D.	Inside Diameter	S	South
CMU	Concrete Masonry Unit	IN	Inch	SCHED.	Schedule
COL	Column	INCL	Include	SEC.	Section
CONC	Concrete	INFO	Information	SEP.	Separation
CONN	Connection	INS	Insulated	SHT.	Sheet
CONST	Construction	INT.	Interior	SIM.	Similar
CONT	Continuous	JST	Joist	SLRS	Seismic Lateral Resisting System
CSK	Counter Sink	JT.	Joint	S.M.S.	Sheet Metal Screw
OTRD	Centered	L	Length, Angle	SPEC.	Specification(s)
DBL	Double	LAM	Laminated	SQ.	Square
DEG	Degree	LB	Pound	S.S.	Stainless Steel
DEM	Demolish, Demolition	LG	Long	STD.	Standard
DEP	Depressed	L.L	Live Load	STIFF.	Stiffener
DIA	Diameter	L.L.H.	Long Leg Horizontal	STL	Steel
DIAG	Diagonal	L.L.V.	Long Leg Vertical	STRUCT.	Structural
DIM	Dimension	L.P.	Low Point	SUSP.	Suspended
DO	Ditto	LVR	Louver	SYM	Symmetrical
D.T.	Drag Truss	MAS	Masonry	T&B	Top & Bottom
DWG	Drawing	MAX	Maximum	T&G	Tongue & Groove
DWL	Dowel	M.B.	Machine Bolt	T.C	Top of Curb
(E)	Existing	MCJ	Masonry Control Joint	THK	Thick, Thickness
EA.	Each	MECH	Mechanical	T.N.	Toe Nail
E.F.	Each Face	MED	Medium	T.O.B.	Top of Beam
E.J.	Expansion Joint	MEZZ	Mezzanine	T.O.C.	Top of Concrete
ELEC	Electric, Electrical	MFR	Manufacture, Manufacturer	T.O.F.	Top of Footing
ELV	Elevation	MIN	Minimum	T.O.P.	Top of Parapet
E.N.	Edge Nail	MISC	Miscellaneous	T.O.S.	Top of Steel
EQ.	Equal	M.O.	Masonry Opening	T.O.W	Top of Wall
EQPT.	Equipment	MT.	Mount, Mounted, Mounting	T.S.	Tube Steel
E.S.	Each Side	MTL	Metal	TYP	Typical
E.W.	Each Way	N	North	U.N.O.	Unless Noted Otherwise
EXIST'G	Existing	N.I.C	Not In Contract	U.O.N.	Unless Otherwise Noted
EXP.	Expansion	NO.	Number	V.B.	Vapor Barrier
EXT.	Exterior	NOM	Nominal	VERT.	Vertical
F.F.	Finished Floor	N.S.	Near Side	W	With
F.G.	Finish Grade	N.T.S.	Not To Scale	W.	West
FIN	Finish, Finished	O.C	On Center	WD.	Wood
F.J.	Floor Joist	O.D.	Outside Diameter	WO	Without
FLR	Floor, Flooring	O.H.	Opposite Hand, Overhead	WP	Working Point
F.N.	Field Nail	OPNG	Opening	WT.	Weight
FND	Foundation	P.A.F.	Powder Actuated Fasteners	W.W.F.	Welded Wire Fabric
F.O	Face Of	PAR.	Parallel	W.W.M.	Welded Wire Mesh
F.O.C	Face of Concrete	P.C.C	Precast Concrete		

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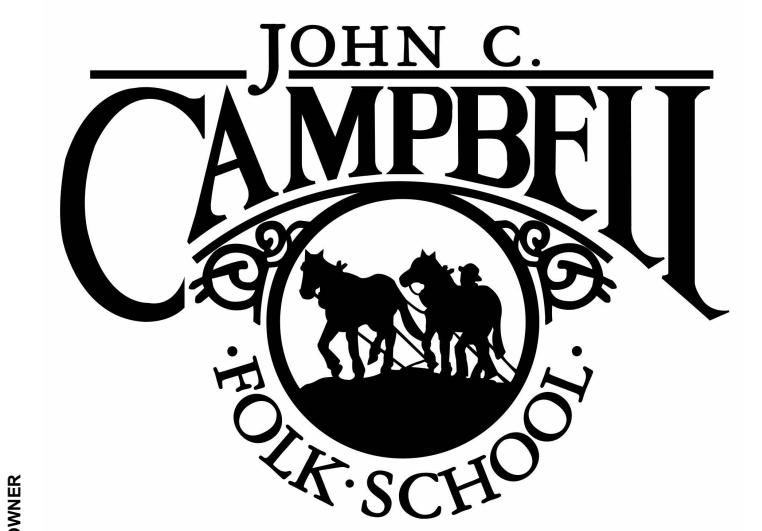
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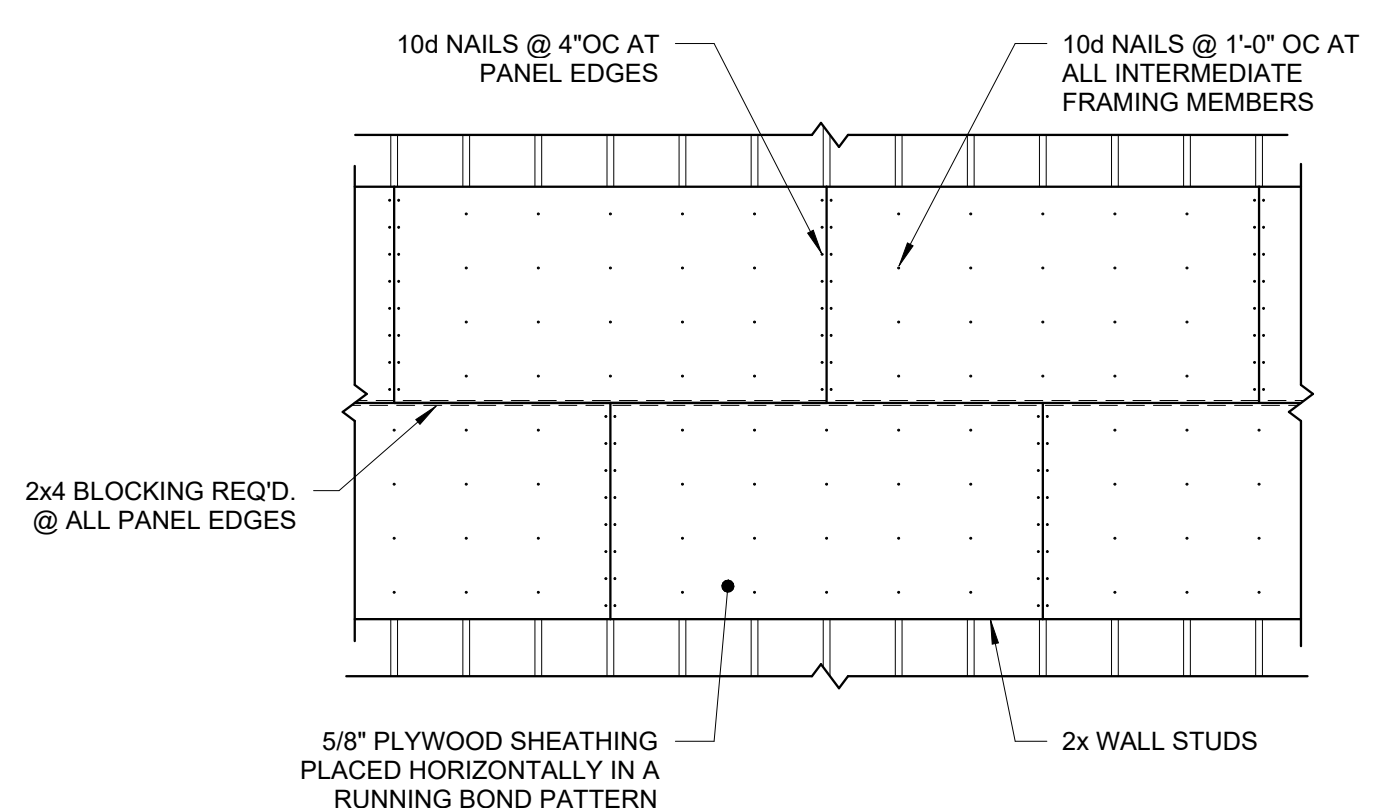
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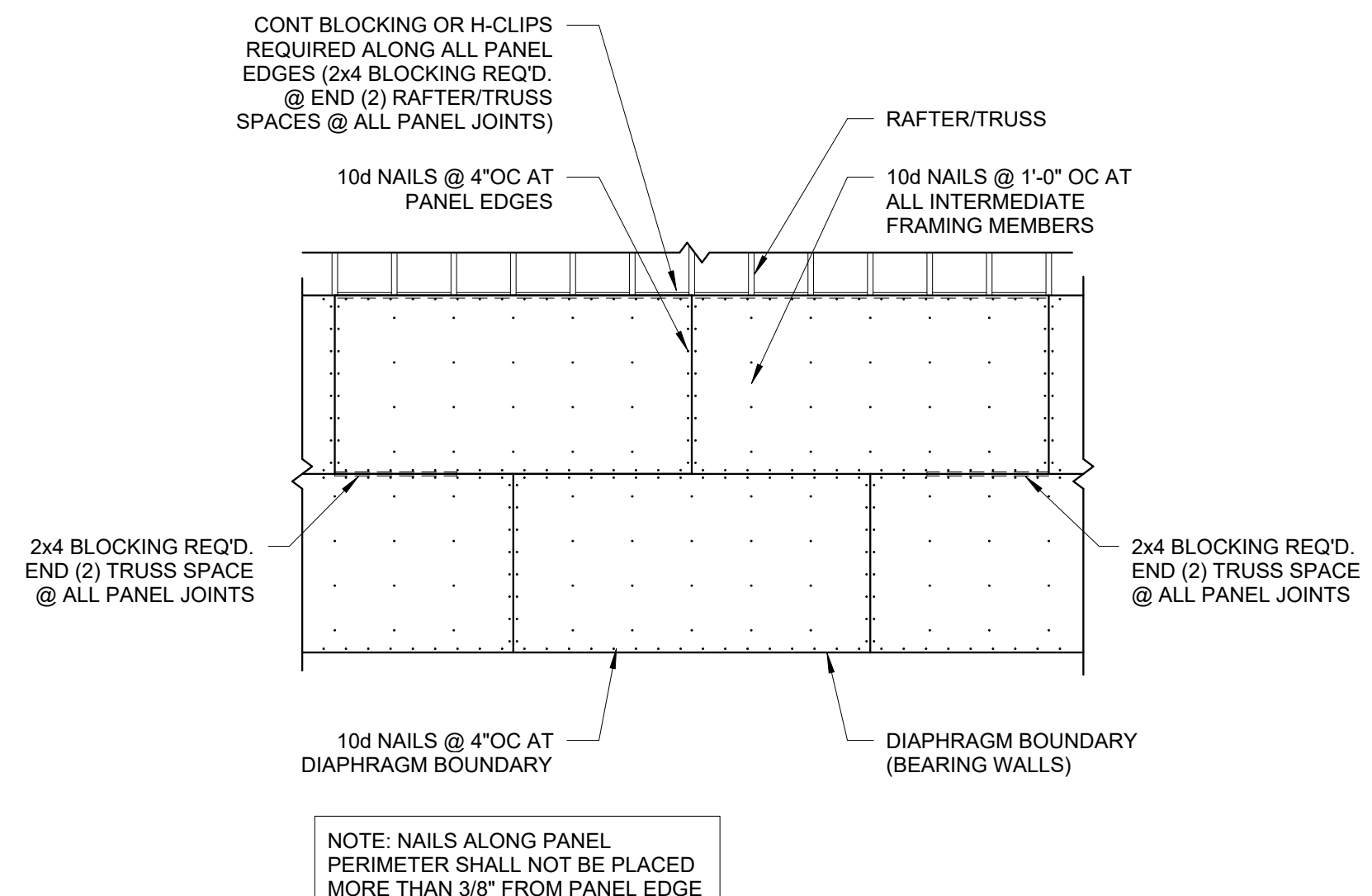
TYPICAL DETAILS

S0.02

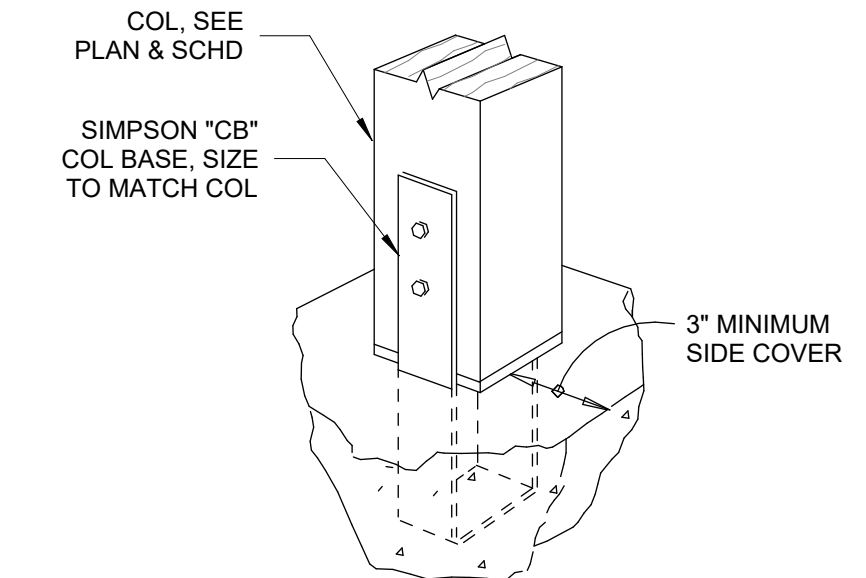
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11 DETAIL
S0.02 SHEAR PANEL FASTENING (@ ALL WOOD FRAMED SHEAR WALLS)
NTS

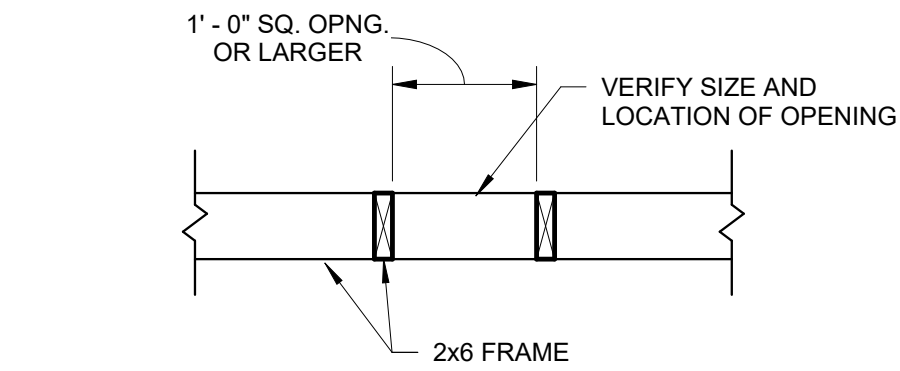


10 DETAIL
S0.02 BLOCKED DIAPHRAGM FASTENING (@ ALL ROOF AREAS)
NTS

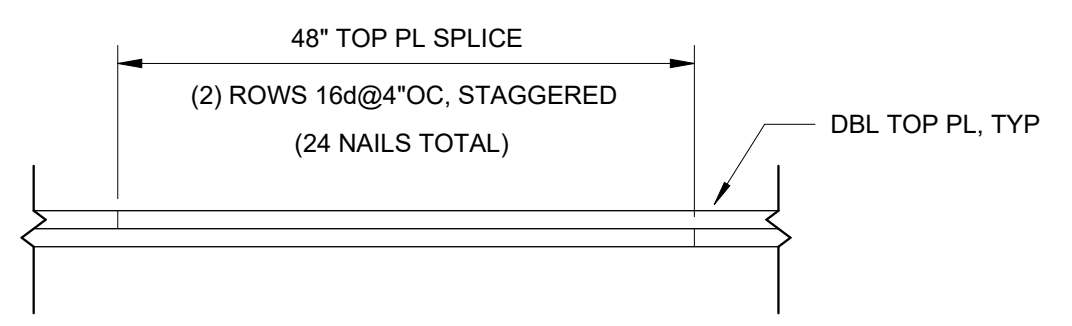


9 TYPICAL SIMPSON COLUMN BASE, "CB" TYPE
S0.02 12" = 1'-0"

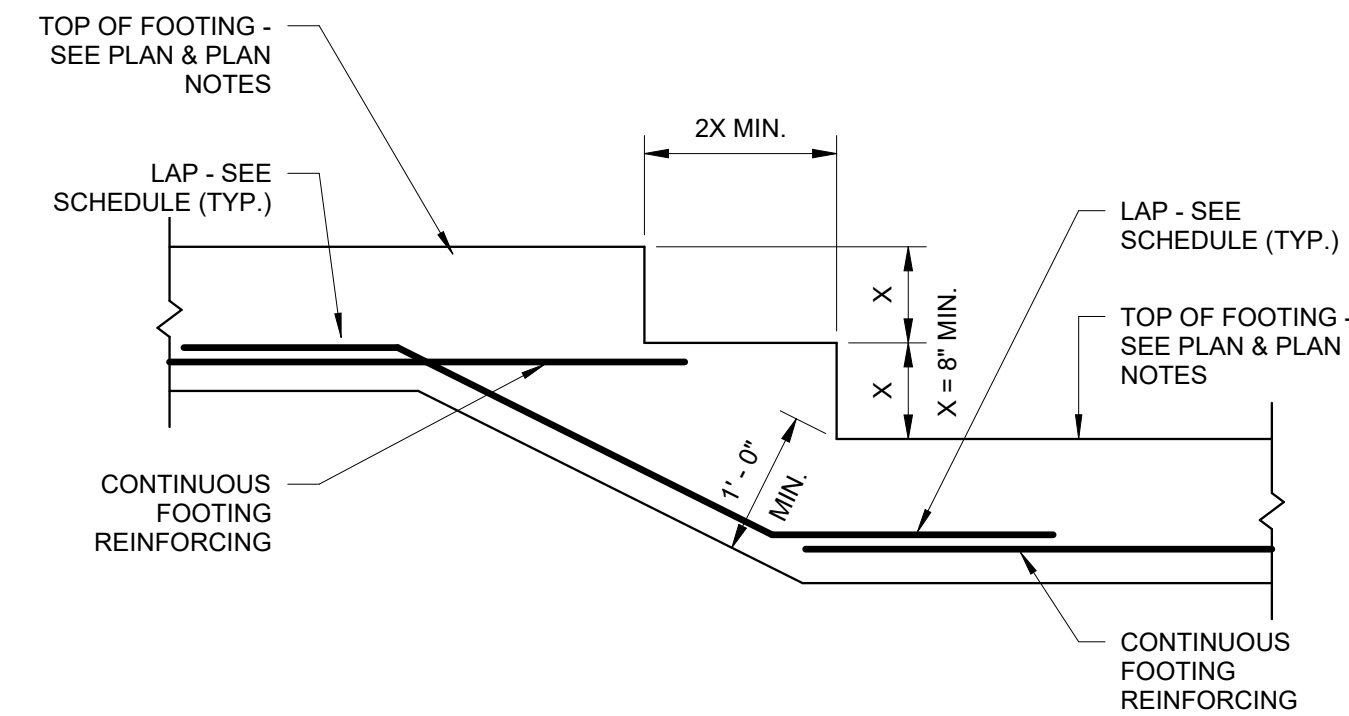
NOTES:
1. SEE PLAN FOR LOCATION.
2. SEE MANUFACTURER'S CATALOG FOR REQUIRED FASTENER SIZES AND QUANTITIES.



8 DETAIL
S0.02 WOOD ROOF OPENING
NTS



7 DETAIL
S0.02 TYPICAL TOP PLATE SPLICE
NTS

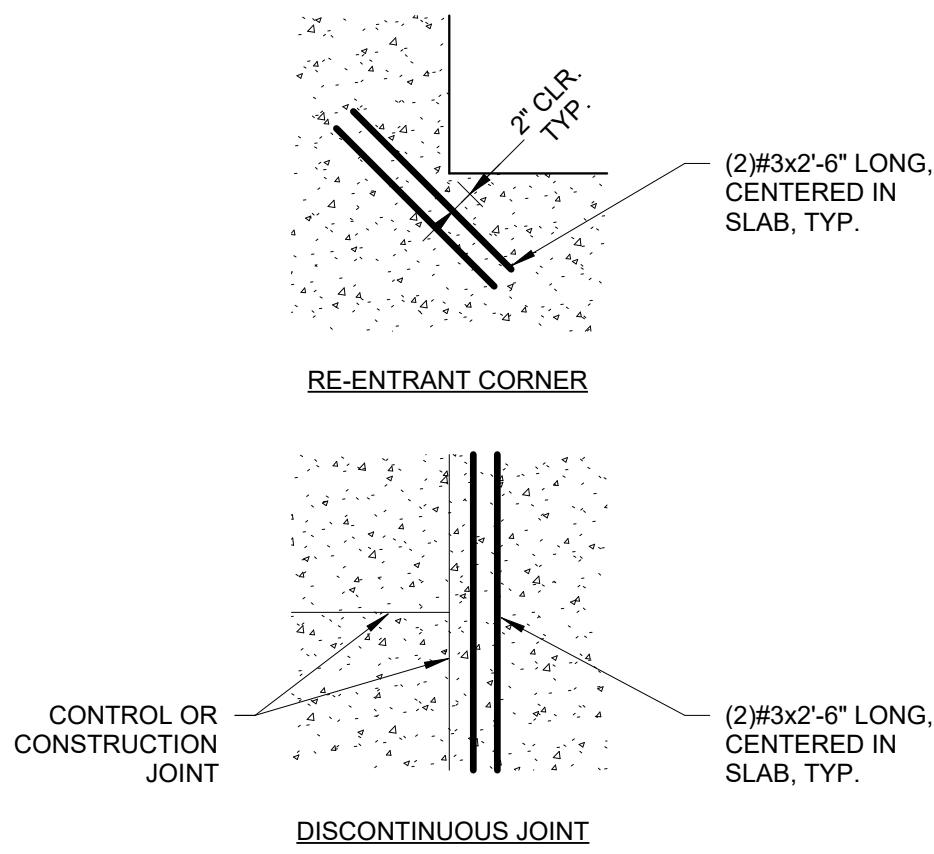


6 DETAIL
S0.02 STEPPED FOOTING
NTS

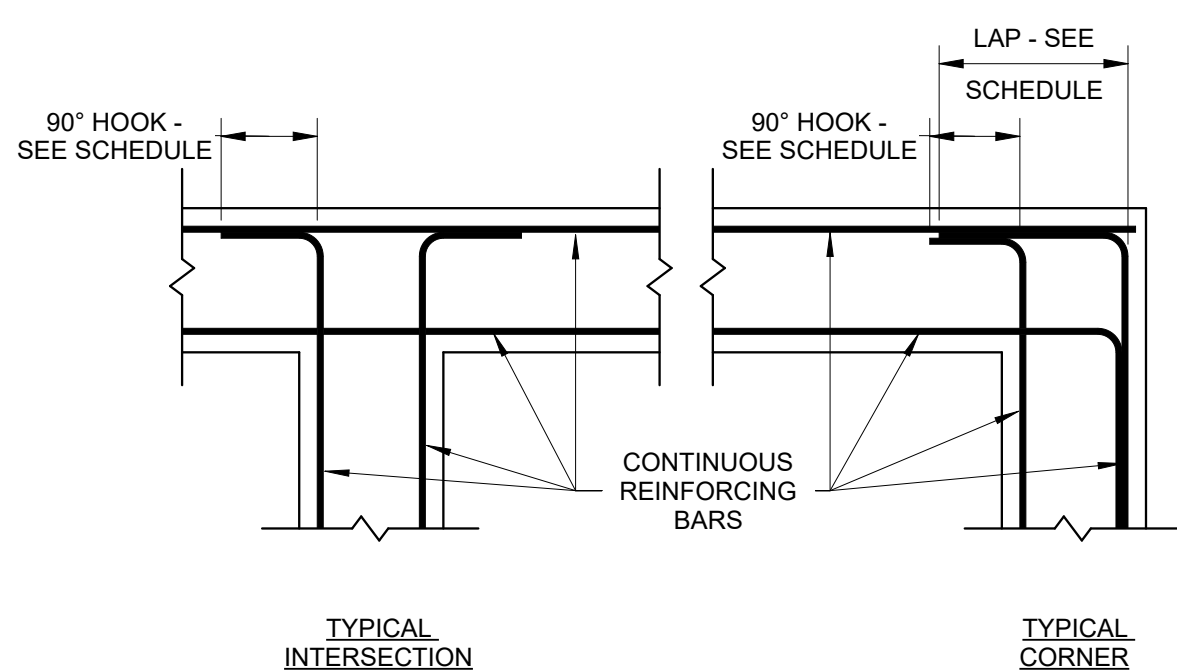
LAP SPLICE AND 90° HOOK SCHEDULE			
BAR SIZE	LAP (in.)		90° HOOK (in.)
	TOP BARS*	OTHER BARS	
#3	22	17	6
#4	29	22	8
#5	36	28	10
#6	43	33	12
#7	63	48	14
#8	72	55	16
#9	81	62	19
#10	91	70	22
#11	101	78	24

NOTE: * "TOP BARS" REFERS TO HORIZONTAL REINFORCING PLACED WITH MORE THAN 12" FRESH CONCRETE CAST BELOW THE REINFORCING.

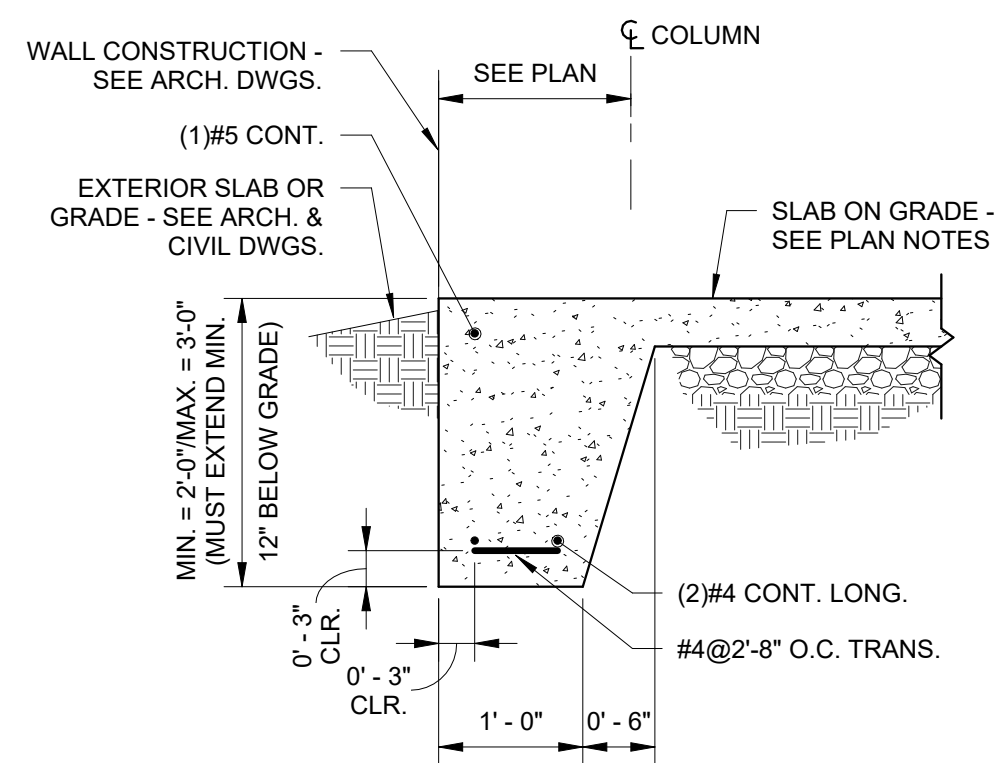
5 DETAIL
S0.02 REINFORCING BAR LAP & HOOK SCHEDULE
NTS



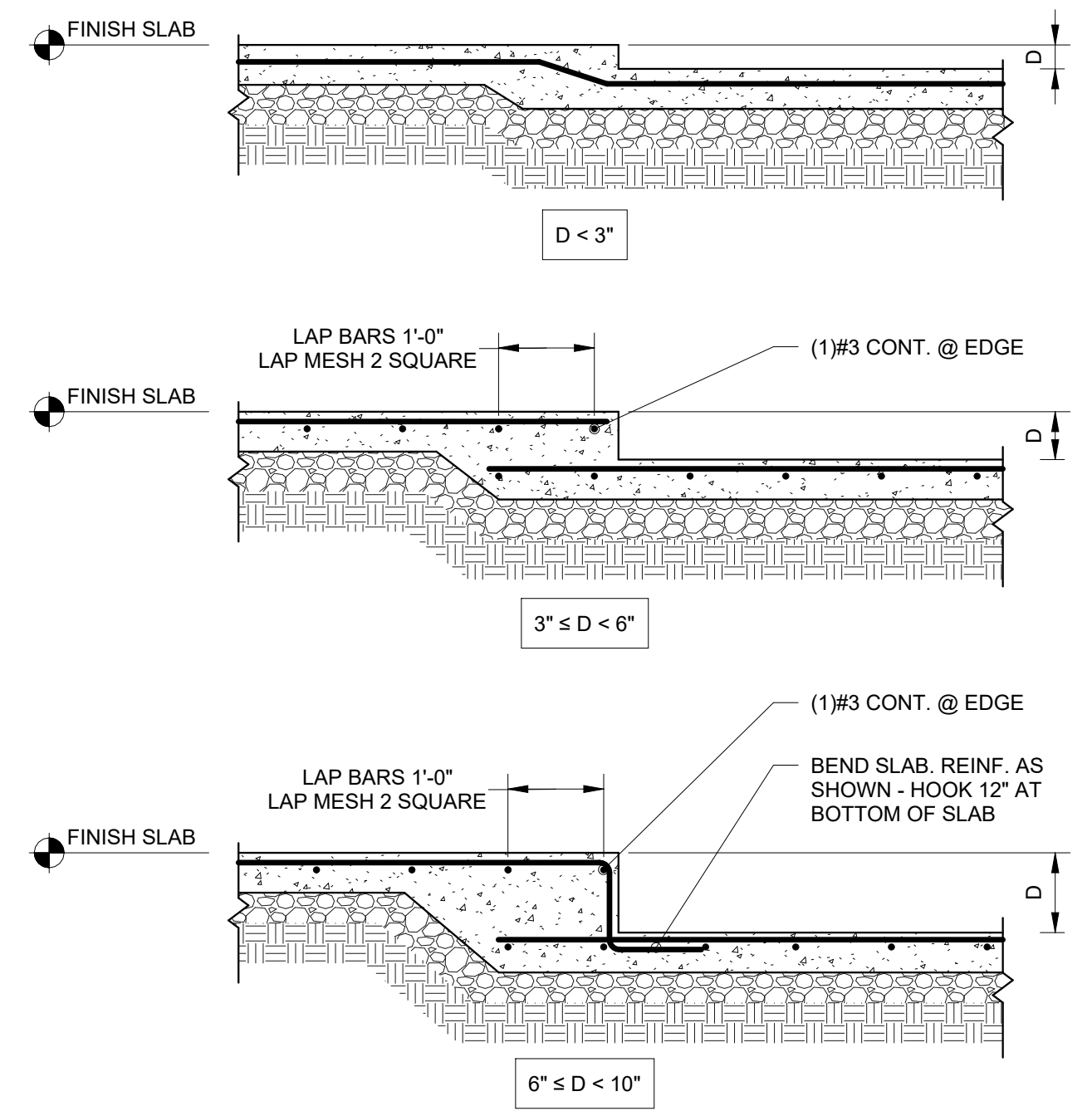
4 DETAIL
S0.02 TYPICAL REINFORCEMENT AT SLAB RE-ENTRANT CORNERS
NTS



3 DETAIL
S0.02 PLACEMENT OF CONTINUOUS REINFORCING FOR FOOTINGS
NTS



2 DETAIL
S0.02 SLAB EDGE TURNDOWN
NTS



NOTES:
1. COORDINATE WITH ARCHITECTURAL DRAWINGS FOR ALL DEPTHS & LOCATIONS OF FLOOR DEPRESSIONS.
2. PROVIDE (2)#3 x 3'-6" TOP AT INTERIOR CORNERS OF ALL DEPRESSION. SEE DETAIL A-A.

1 DETAIL
S0.02 SLAB DEPRESSION
NTS

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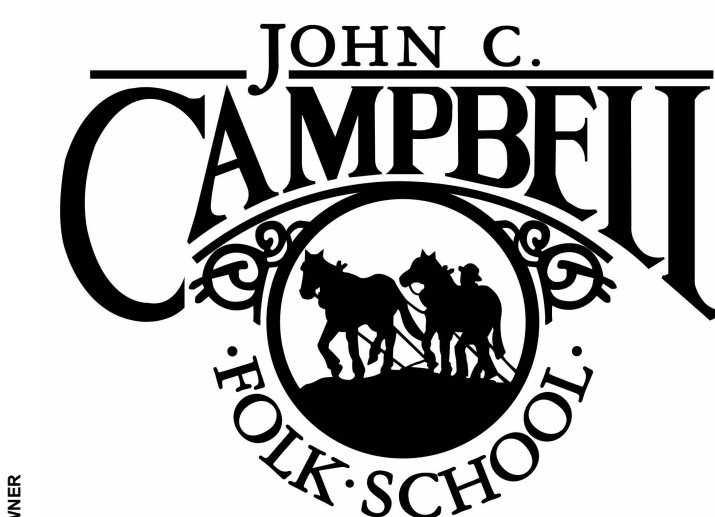
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TYPICAL DETAILS

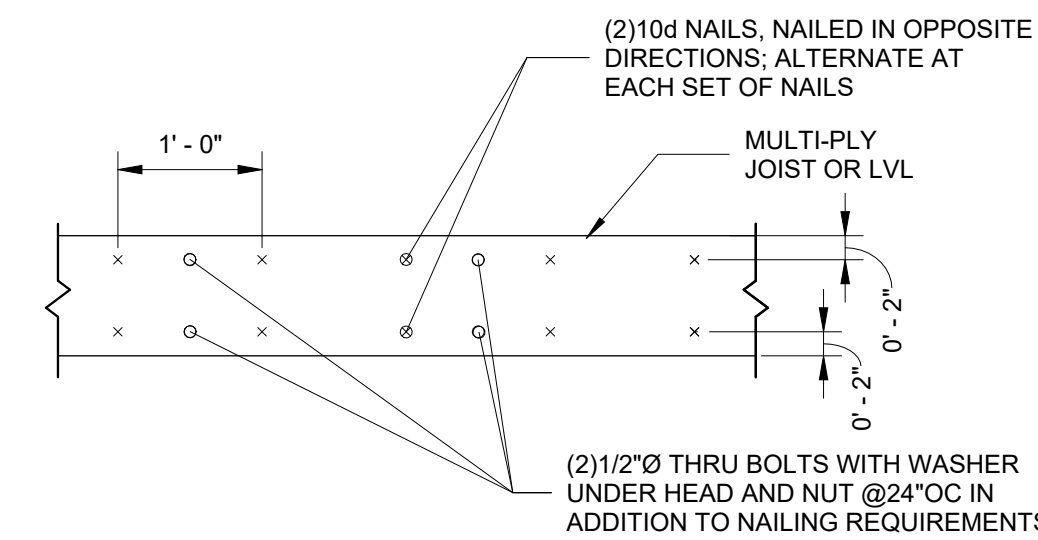
S0.03

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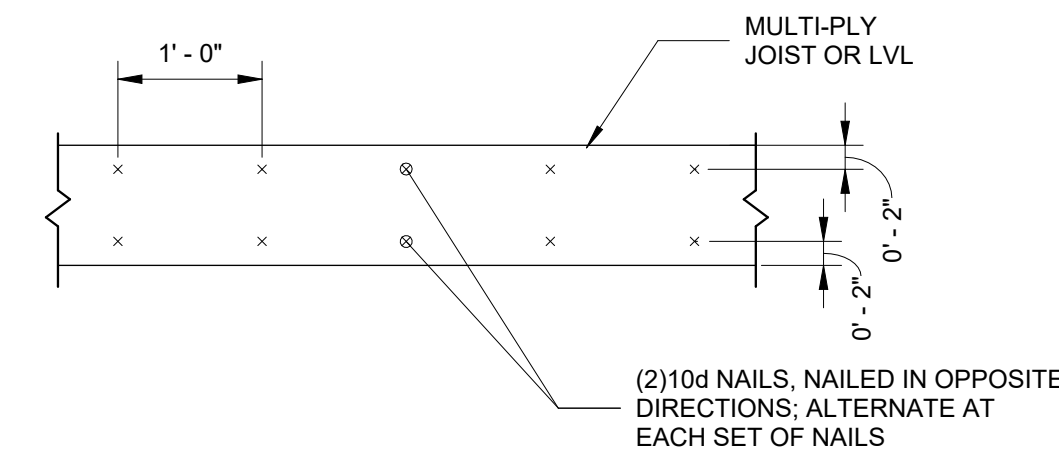
FOUNDATION SCHEDULE		
TYPE	DIMENSIONS	REINFORCING
F4	4'-0" x 4'-0" x 1'-0"	(5) #5 EA. WAY TOP/BOTT.

7 DETAIL

S0.03 REINFORCING BAR LAP & HOOK SCHEDULE
NTS



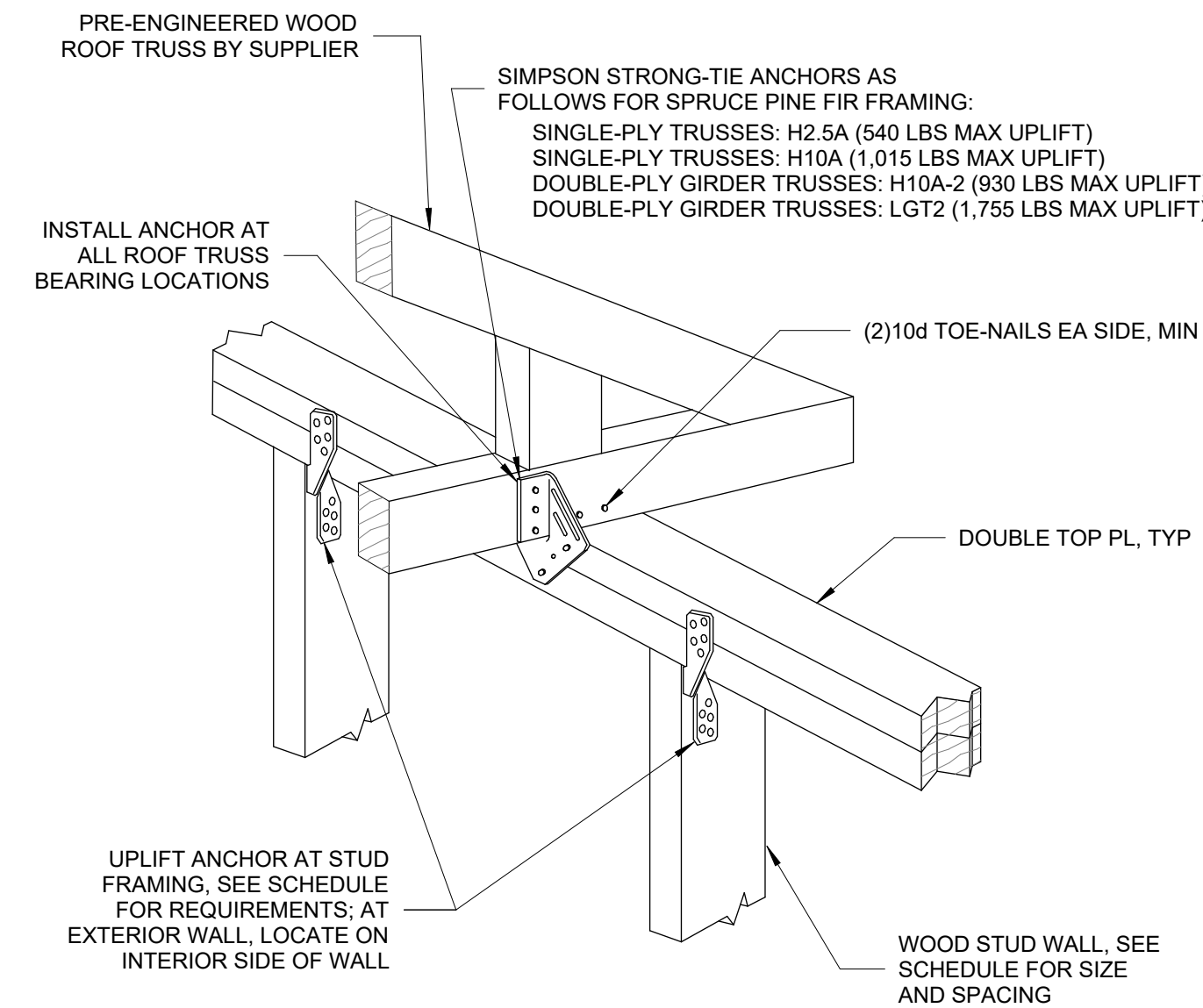
FOUR-PLY MEMBERS



TWO-PLY AND THREE-PLY MEMBERS

6 DETAIL

S0.03 TYP. NAILING AT MULTI-PLY FRAMING
NTS

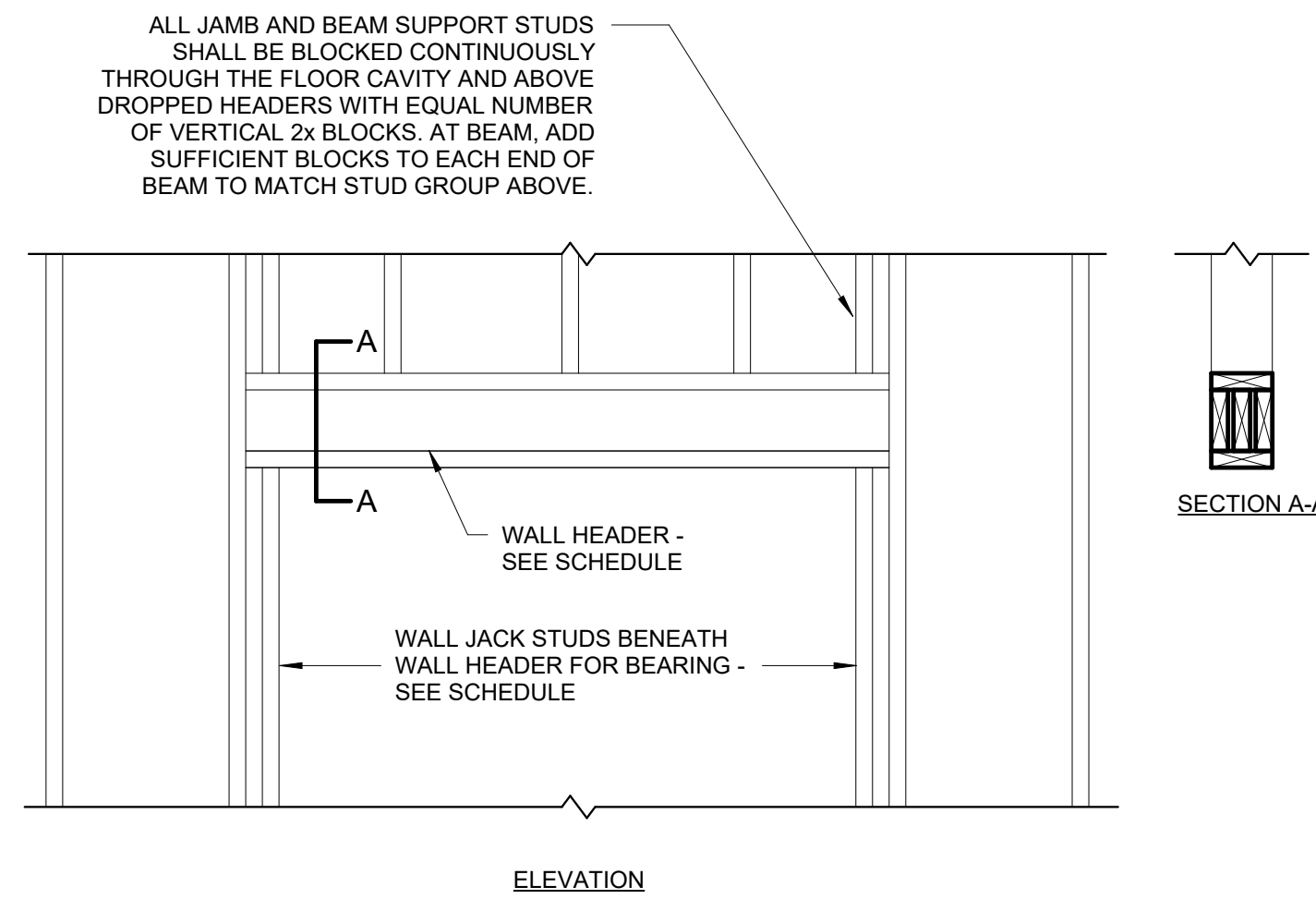


STUD UPLIFT ANCHOR REQUIREMENTS SPRUCE PINE FIR FRAMING, TRUSS SPACING @24"OC	
TRUSS REACTION	ANCHOR TYPE
LESS THAN 200 LBS	NONE
200 LBS TO 800 LBS	H2.5A
800 LBS TO 2,000 LBS	H2.5A PLUS H6
GREATER THAN 2,000 LBS	NOTIFY EOR

- NOTES:
1. MAXIMUM WALL STUD SPACING 16"OC.
 2. CONTRACTOR TO SELECT TRUSS ANCHOR BASED ON APPROVED TRUSS SHOP DRAWINGS WITH TRUSS REACTIONS.
 3. TRUSS MANUFACTURER OR CONTRACTOR SHALL REQUEST FOR ADDITIONAL HOLDOWN ANCHORS AT TRUSS GIRDER, MULTI-PLY TRUSSES, JACK TRUSSES, AND HIP AND VALLEY TRUSSES.
 4. MULTIPLE ANCHORS MAY BE USED (PER SIMPSON STRONG-TIE RECOMMENDED CONSTRUCTION DETAILS) TO ACHIEVE HIGHER UPLIFT VALUES.
 5. DETAIL APPLIES TO BOTH INTERIOR AND EXTERIOR BEARING WALLS.

1 DETAIL

S0.03 TYPICAL ROOF TRUSS CONNECTION
NTS



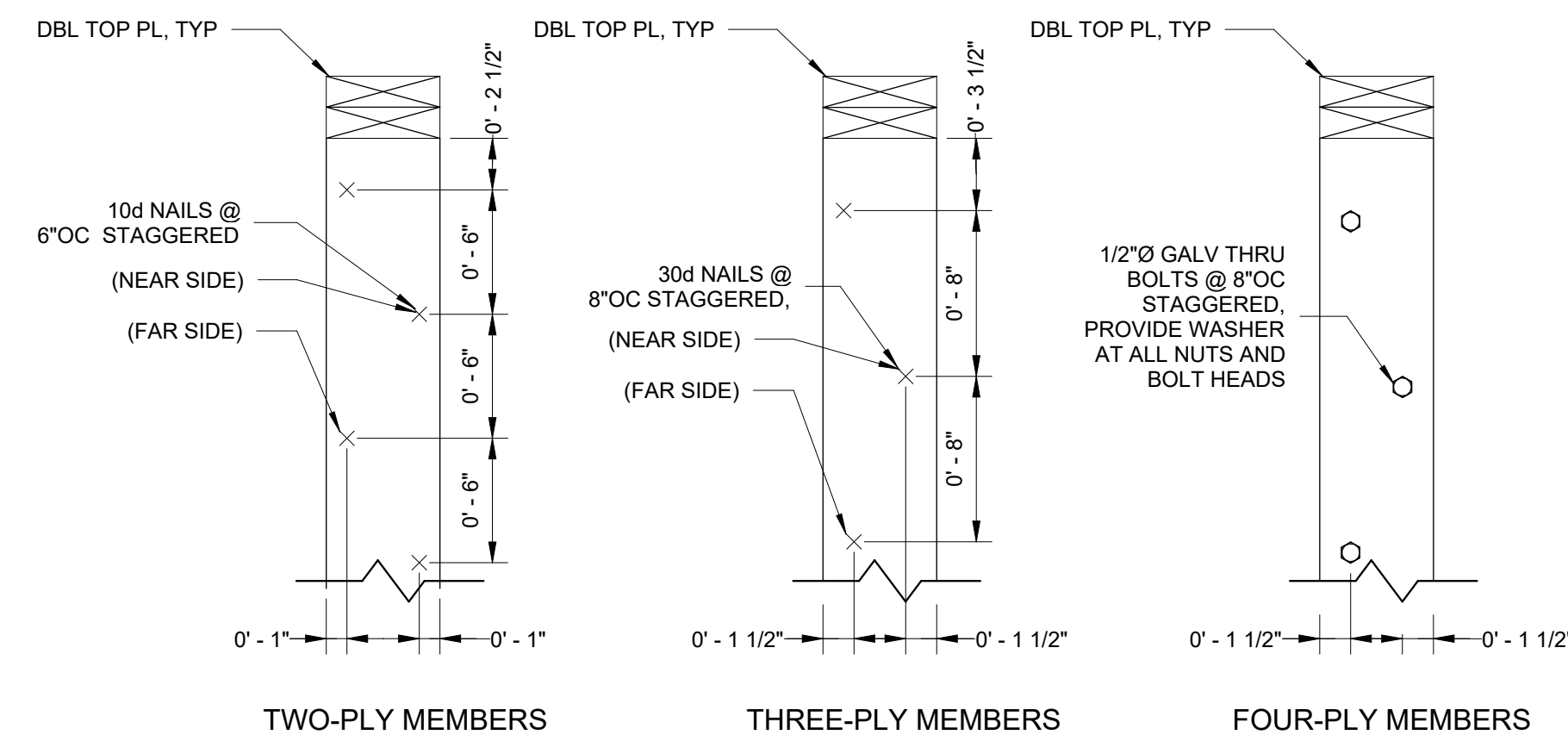
OPENING	HEADER SIZE	JACK STUDS	KING STUDS
≤ 3'-0"	(3)2x8	(2)2x6	1
3'-0" ≤ 5'-0"	(3)2x10	(2)2x6	2
5'-0" ≤ 7'-0"	(3)2x12	(2)2x6	3
7'-0" ≤ 10'-0"	(3)1 3/4" x 11 7/8"	(3)2x6	4

NOTES:

1. PROVIDE HEADERS AS SHOWN UNLESS NOTED OTHERWISE ON PLANS, SECTIONS, OR DETAILS FOR ALL OPENINGS WIDER THAN 1'-0". SEE ARCHITECTURAL DRAWINGS FOR LOCATIONS OF REQUIRED HEADERS

8 2x6 LOAD BEARING WALL HEADERS

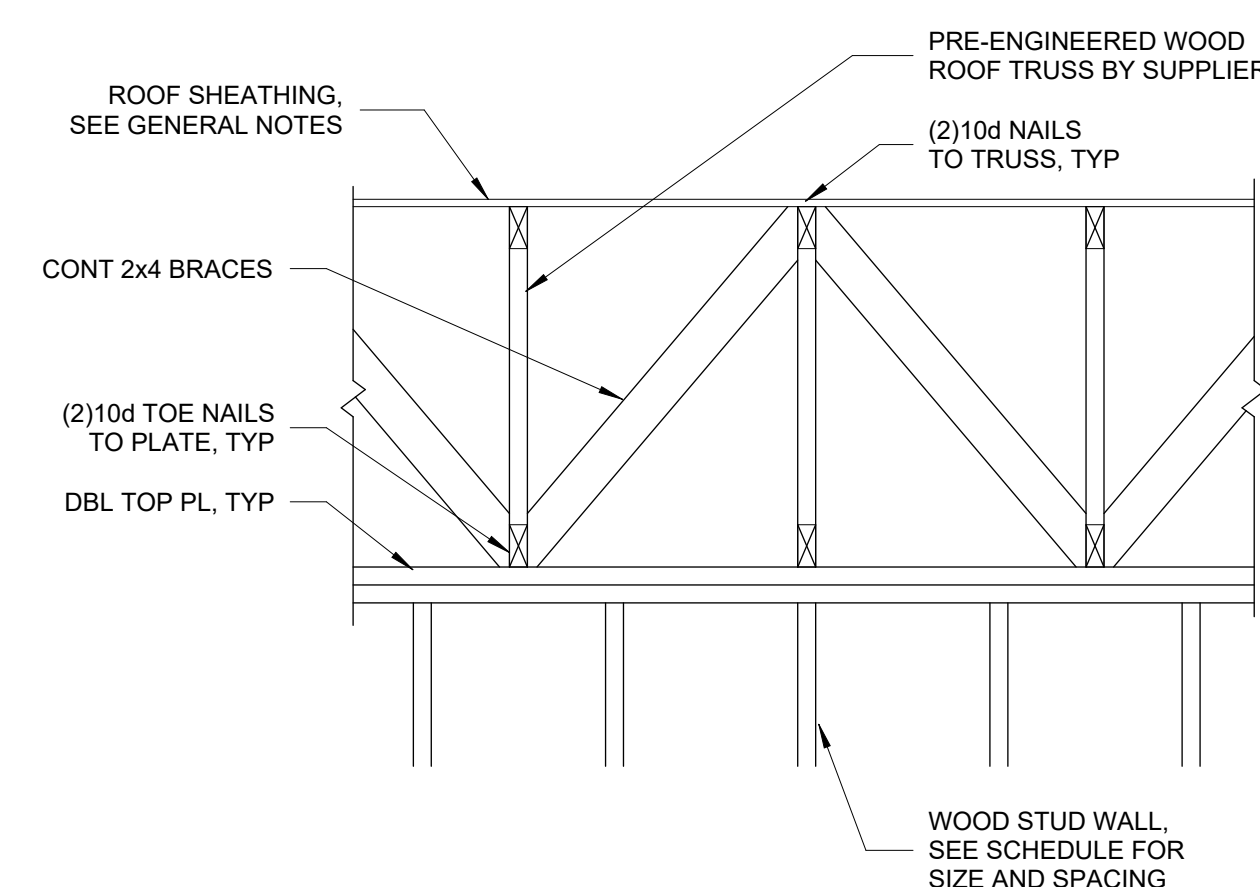
S0.03 3/4" = 1'-0"



- NOTE:
1. BOLT OR SCREWS SHALL BE TIGHTENED TO ENSURE FACES OF ADJACENT LAMINATIONS ARE IN CONTACT.

4 DETAIL

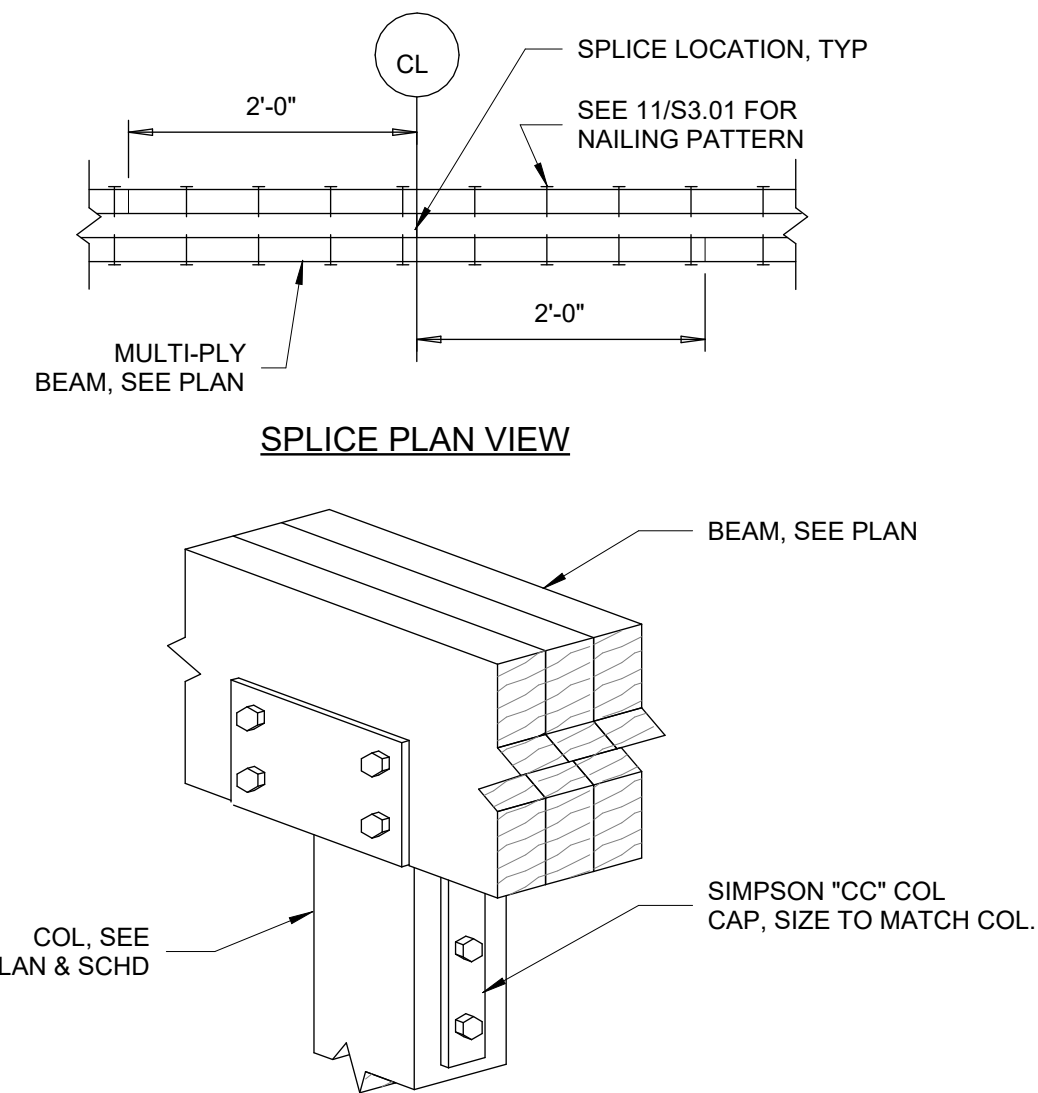
S0.03 TYPICAL NAILING AT BUILT-UP COLUMN, 2x4
NTS



- NOTES:
1. AT INTERIOR SHEAR WALL LOCATIONS, PROVIDE BRACES AS CLOSE TO 1 TO 1 SLOPE AS POSSIBLE. BRACE MAY NEED TO PASS THROUGH MULTIPLE TRUSSES (3 MAX) TO ACHIEVE SLOPE.

2 DETAIL

S0.03 TYPICAL BRACING BETWEEN ROOF TRUSSES AT LOAD BEARING
WALLS
NTS

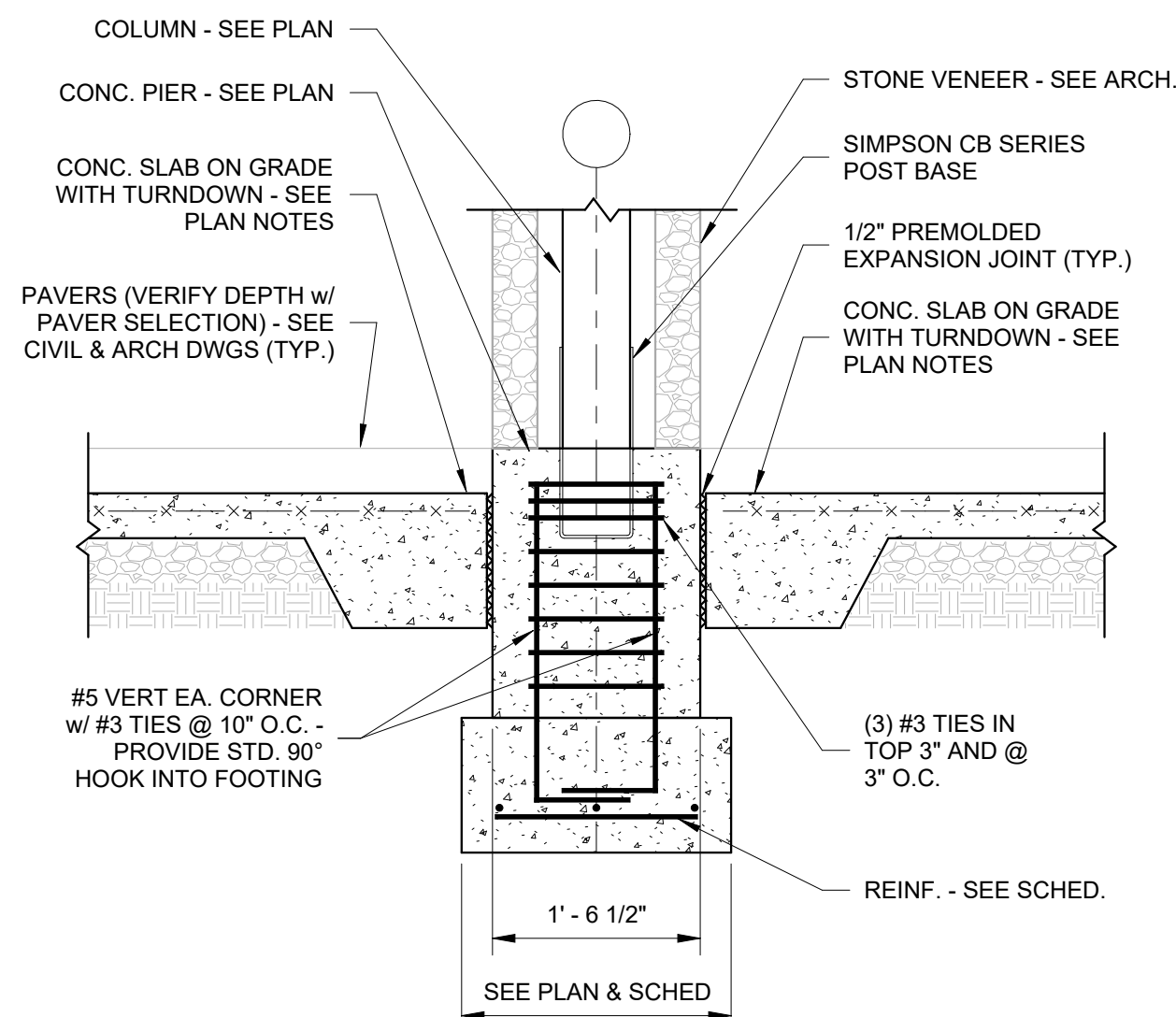


NOTES:

1. SEE PLAN FOR LOCATION.
2. SEE MANUFACTURER'S CATALOG FOR REQUIRED FASTENER SIZES AND QUANTITIES.
3. SPLICE BEAM AT COLUMN CENTERLINE, UNO PLAN.

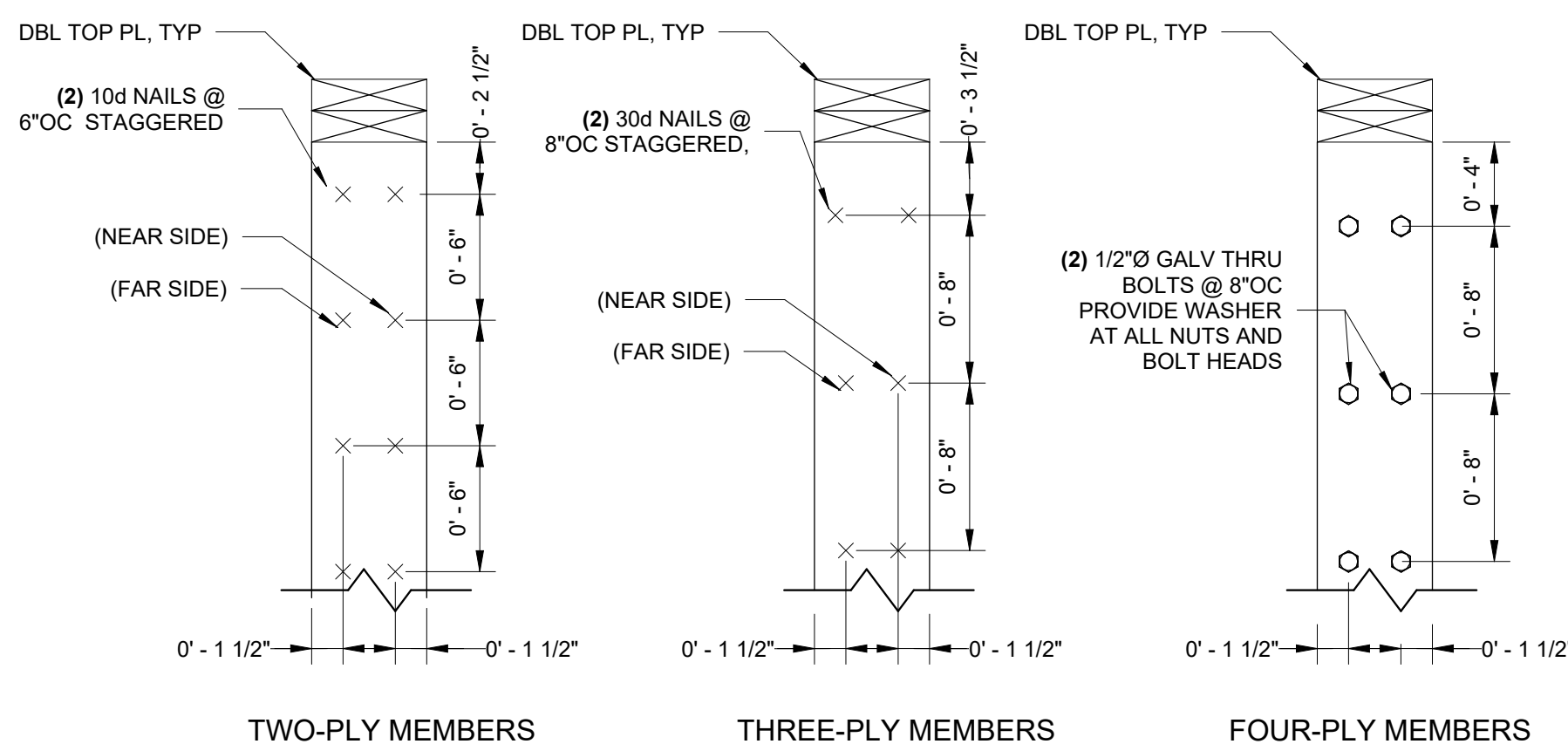
9 DETAIL

S0.03 TYPICAL SIMPSON COLUMN CAP, "CC" TYPE
NTS



5 DETAIL

S0.03 TYPICAL POST SUPPORT
NTS



- NOTE:
1. BOLT OR SCREWS SHALL BE TIGHTENED TO ENSURE FACES OF ADJACENT LAMINATIONS ARE IN CONTACT.

3 DETAIL

S0.03 TYPICAL NAILING AT BUILT-UP COLUMN, 2x6
NTS

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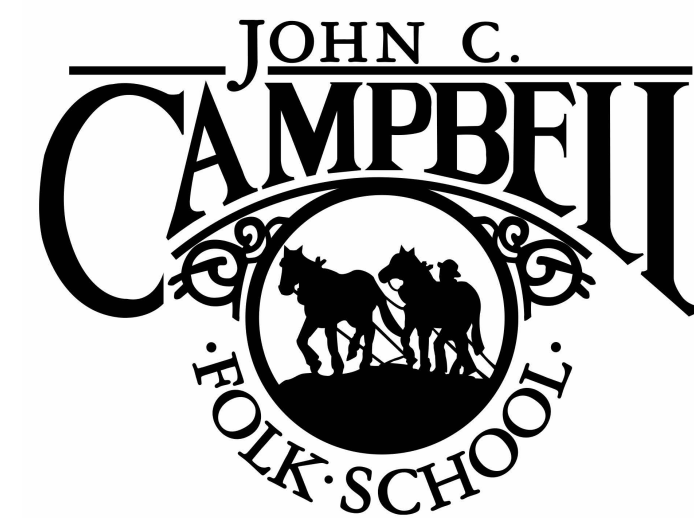
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TYPICAL DETAILS

S0.04

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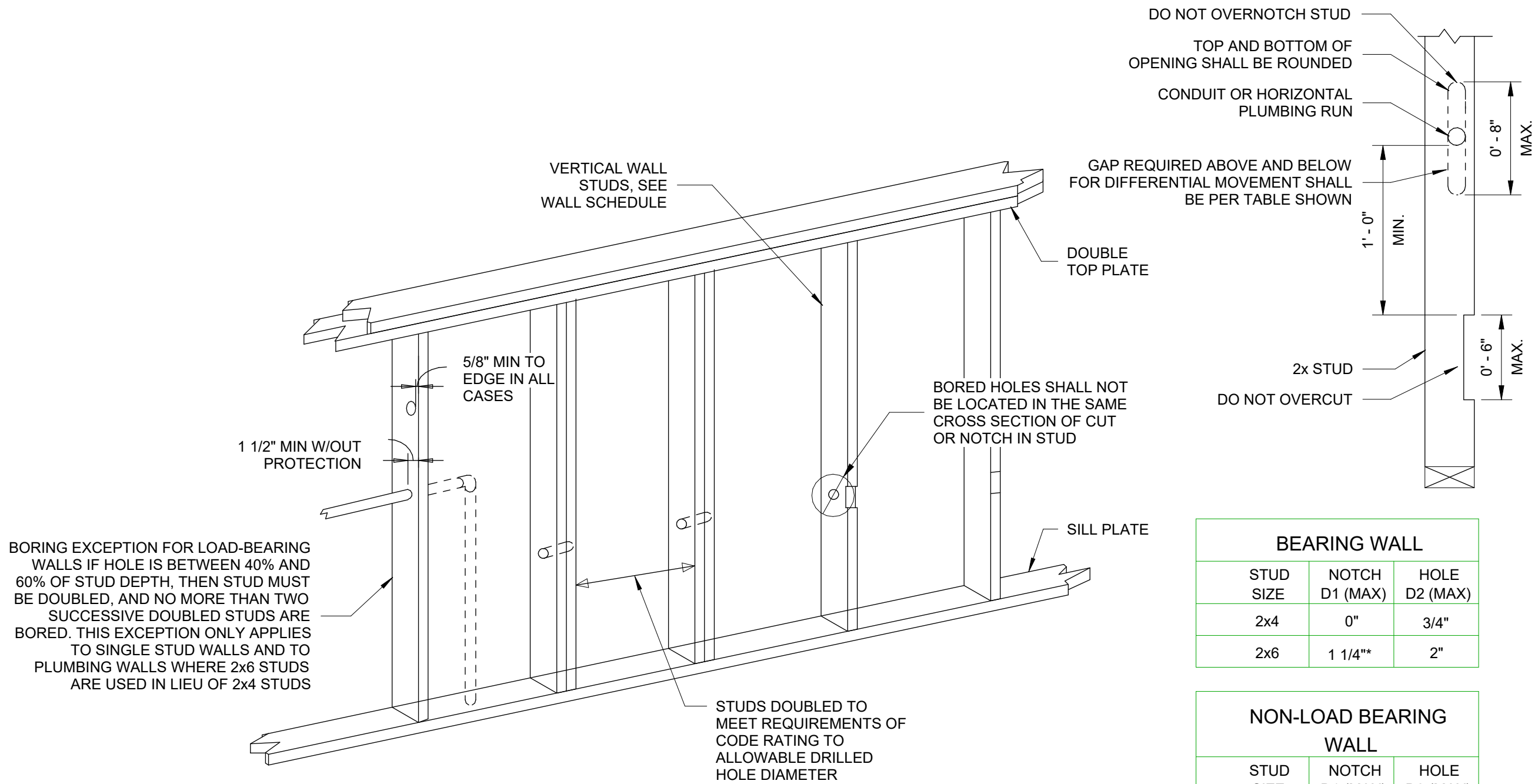
MINIMUM FASTENER REQUIREMENTS FOR FRAMING								
CONNECTION	NUMBER OR SPACING OF FASTENERS REQUIRED PER CONNECTION							
	3 1/2 x0.162	3 x0.148	3 1/4 x0.131	3 x0.131	2 1/2 x0.131	3 1/4 x0.120	3 x0.120	
FLOOR FRAMING								
JOIST TO BAND JOIST	3	5	5	5	NA	6	6	
LEDGER STRIP	3	4	4	4	6	4	4	
JOIST TO SILL OR GIRDER	3	3	3	3	3	4	4	
BLOCKING BTWN JOIST/RAFTER TO TOP PLATE	3	3	3	4	3	4	4	
BRIDGING TO JOIST	NA	NA	NA	NA	2	3	3	
RIM JOIST TO TOP PLATE	8"OC	6"OC	6"OC	6"OC	6"OC	6"OC	4"OC	
BUILT-UP GIRDERS AND BEAMS - SPACING ALONG EDGES - NUMBER AT ENDS AND SPLICES	24"OC 3	24"OC 3	24"OC 3	24"OC 3	16"OC 4	16"OC 3	16"OC 3	
CEILING AND ROOF FRAMING								
CEILING JOIST TO PLATE	3	4	5	5	5	5	5	
CEILING JOISTS, LAPS OVER PARTITIONS	3	4	4	4	6	4	4	
CEILING JOIST TO PARALLEL RAFTER	3	4	4	4	6	4	4	
COLLAR TIE TO RAFTER	3	3	4	4	5	4	4	
JACK RAFTER TO HIP, TOE NAILED	3	3	4	4	5	4	4	
JACK RAFTER TO HIP, FACE NAILED	2	3	3	3	3	4	4	
ROOF RAFTER TO PLATE	3	3	3	3	3	4	4	
ROOF RAFTER TO 2x RIDGE BEAM (DRIVEN THRU BEAM INTO END OF RIDGE)	2	3	3	3	NA	4	4	
ROOF RAFTER TO 2x RIDGE BEAM (TOE NAIL RAFTER TO BEAM)	2	3	3	3	3	4	4	
WALL FRAMING								
TOP OR SOLE PLATE TO STUD, END NAILED	2	3	3	3	5	4	4	
STUD TO TOP OR SOLE PLATE, TOE NAILED	3	4	4	4	4	4	4	
CAP/TOP PLATE LAPS AND INTERSECTIONS (EACH SIDE OF LAP)	2	3	3	3	4	3	3	
DIAGONAL BRACING	2	2	2	2	2	3	3	
SOLE PL. TO JOIST/BLOCKING @ BRACED PANELS (NUMBER PER 16" JOIST SPACE)	2	3	3	4	NA	4	4	
SOLE PLATE TO JOIST OR BLOCKING	16"OC	8"OC	8"OC	8"OC	6"OC	8"OC	8"OC	
DOUBLE TOP PLATE	16"OC	16"OC	12"OC	12"OC	8"OC	12"OC	12"OC	
DOUBLE STUDS	12"OC	12"OC	8"OC	8"OC	6"OC	8"OC	8"OC	
CORNER STUDS	24"OC	16"OC	16"OC	16"OC	8"OC	12"OC	12"OC	

NOTES:

- NAIL LENGTHS SHOWN ARE A MINIMUM NOMINAL LENGTH (IN INCHES). NAIL SHANK DIAMETERS SHOWN ARE A MINIMUM NOMINAL DIAMETER (IN INCHES).
- THIS FASTENING SCHEDULE APPLIES TO FRAMING MEMBERS HAVING AN ACTUAL THICKNESS OF 1 1/2" (NOMINAL 2x LUMBER).
- WHERE OTHER DRAWING OR SPECIFICATION REQUIREMENTS CONFLICT WITH THIS SCHEDULE, THE MORE STRINGENT REQUIREMENT SHALL APPLY.

MINIMUM FASTENER REQUIREMENTS FOR

FRAMING
12" = 1'-0"



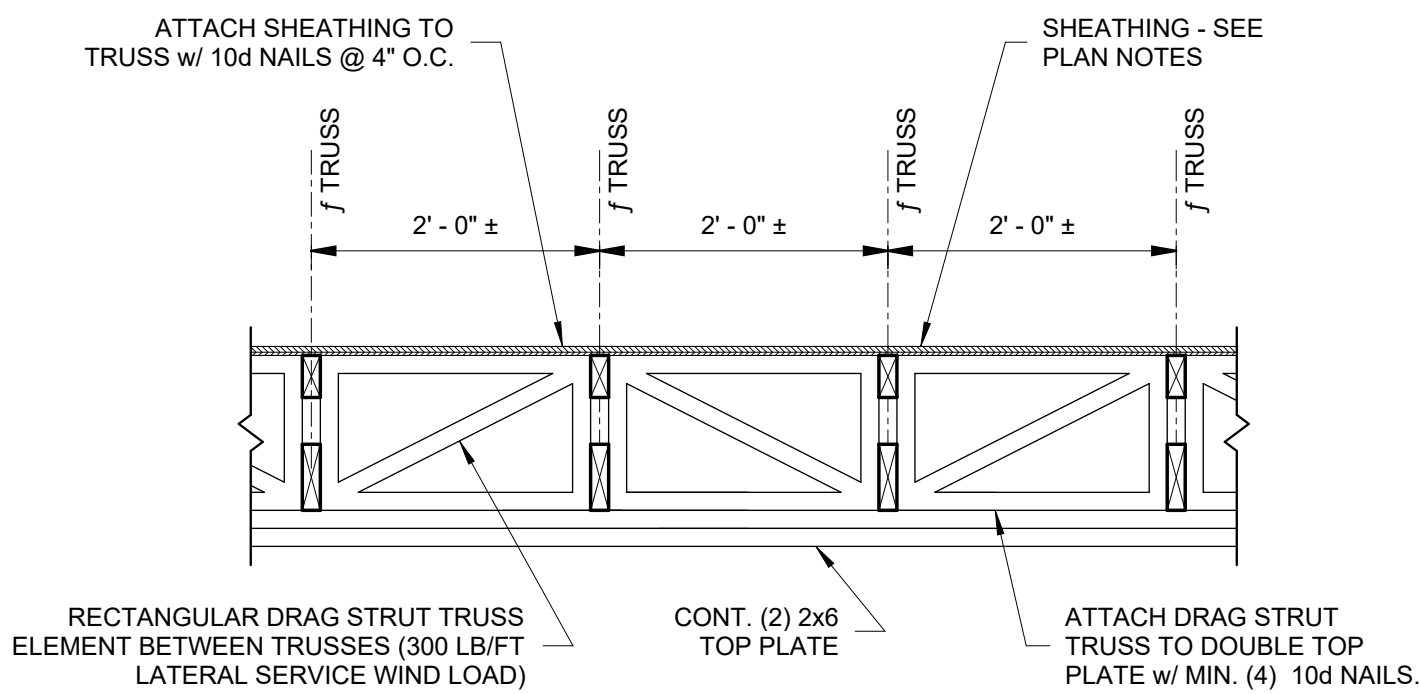
BEARING WALL		
STUD SIZE	NOTCH D1 (MAX)	HOLE D2 (MAX)
2x4	0"	3/4"
2x6	1 1/4"	2"

NON-LOAD BEARING WALL		
STUD SIZE	NOTCH D1 (MAX)	HOLE D2 (MAX)
2x4	1 1/4"	2"
2x6	2"	3 1/4"

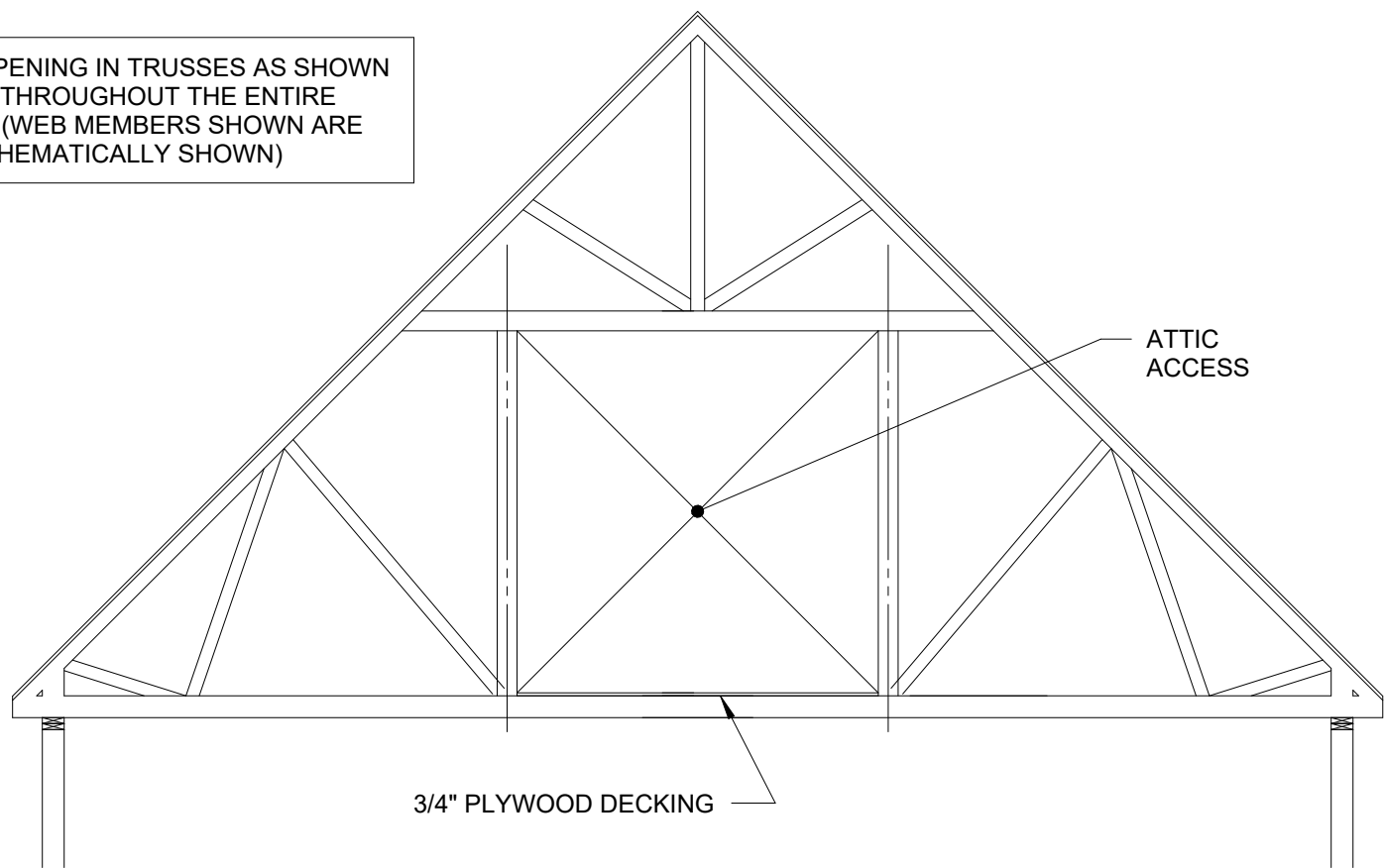
NOTES:

- EXCEPTION FOR HOLES AT INTERIOR LOAD-BEARING STUDS: IF REQUIRED HOLE DIAMETER EXCEEDS VALUE GIVEN IN TABLE ABOVE, BUT IS LESS THAN 60% OF THE STUD WIDTH, THEN BORED STUDS SHALL BE DOUBLED PROVIDED NO MORE THAN TWO SUCCESSIVE DOUBLED STUD GROUPS ARE BORED. WHERE MULTIPLE STUDS ARE SPECIFIED IN STUD WALL SCHEDULE PER 6/53.01, DOUBLE STUD GROUPS SHALL EQUAL TWICE THE PRESCRIBED STUDS.
- NOT MORE THAN TWO ADJACENT STUDS MAY BE BORED.
- BORED HOLES SHALL NOT BE LOCATED AT THE SAME SECTION OF STUD AS A NOTCH. SEE MINIMUM SPACING GIVEN IN DETAIL ABOVE.
- HOLES AND NOTCHES ARE NOT ALLOWED IN TOP AND BOTTOM PLATES OR END POSTS OF SHEAR WALLS.
- HOLES IN TOP OR BOTTOM PLATES MORE THAN 40% OF THE PLATE WIDTH REQUIRE 16GA x1 1/2" WIDE METAL TIES WITH A MINIMUM (6)16d NAILS TO EACH PLATE.
- * NOTCHES ARE NOT ALLOWED AT EXTERIOR 2x6 WALLS.
- WHERE NOTCHES AND/OR HOLES DO NOT COMPLY WITH THIS DETAIL THE CONTRACTOR SHALL REPORT THE CONDITION(S) TO THE STRUCTURAL ENGINEER OF RECORD. CONTRACTOR SHALL NOT CONTINUE BORING AND/OR NOTCHING ACTIVITIES UNTIL ALTERNATIVE SOLUTION IS PROVIDED BY E.O.R.
- FROM PAST EXPERIENCE A 2" DIAMETER PIPE INSTALLED AT THE BOTTOM OF A 3 1/4" DIAMETER HOLE WILL BE THE LARGEST SIZE PIPE THAT CAN RUN HORIZONTALLY THROUGH A STUD AND STILL HAVE ADEQUATE SPACE ABOVE THE PIPE FOR BUILDING SHRINKAGE WITHOUT A CONCERN FOR DAMAGING THE PIPE OR ADJACENT FITTINGS. EVEN FOR THIS SCENARIO, LOAD BEARING STUDS WILL HAVE TO BE DOUBLED FOR ANY BORING SIZES BETWEEN 2 1/4" AND 3 1/4" DIAMETER.

5 ALLOWABLE HOLES AND NOTCHES IN WALL STUDS
S0.04 1 1/2" = 1'-0"



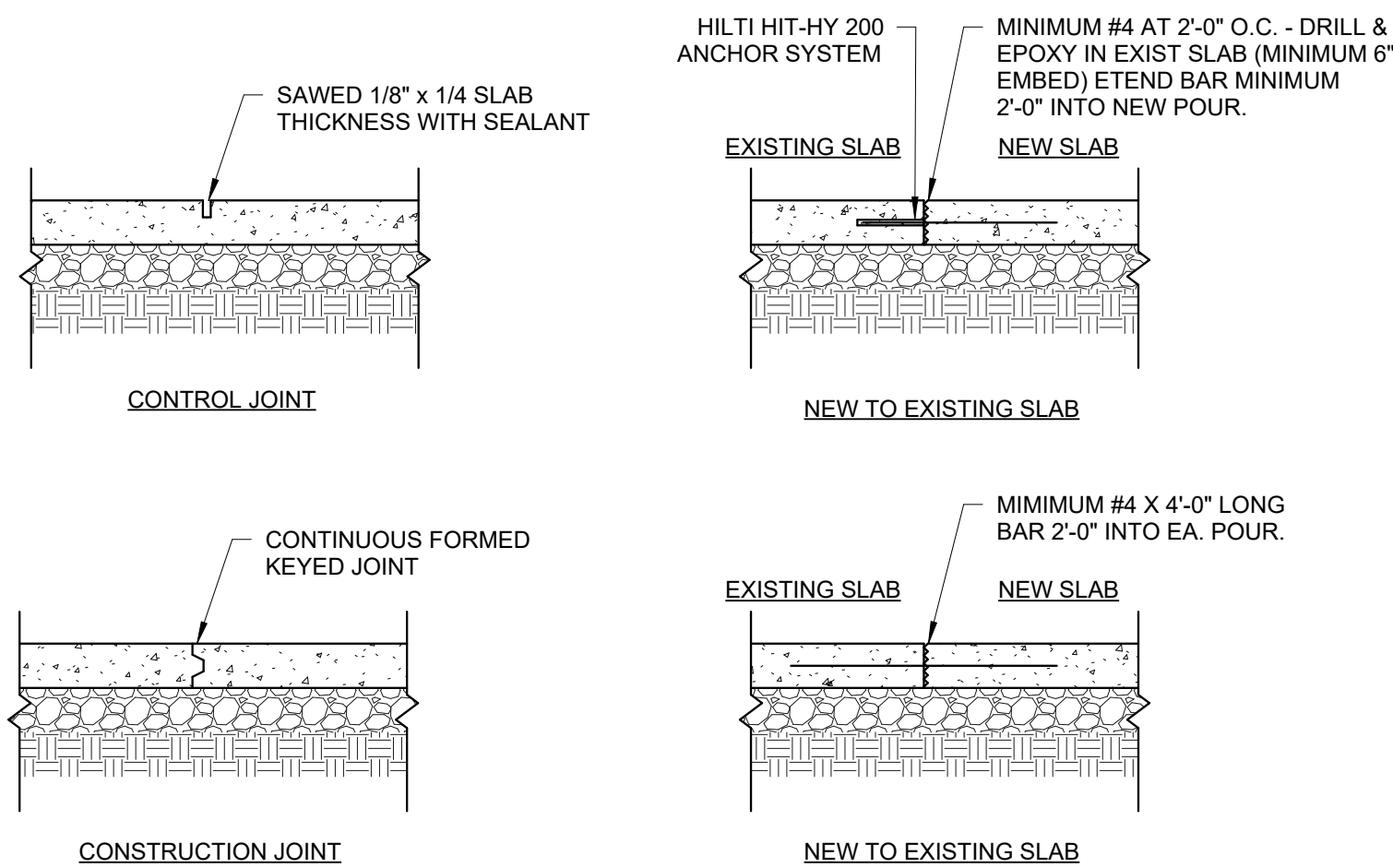
PROVIDE OPENING IN TRUSSES AS SHOWN ABOVE THROUGHOUT THE ENTIRE PROJECT (WEB MEMBERS SHOWN ARE SCHEMATICALLY SHOWN)



TYPICAL TRUSS NOTES:

- LOADS
A. ROOF LIVE LOAD..... 20 PSF
B. WALKWAY / MECHANICAL LIVE LOAD..... 40 PSF
C. GROUND SNOW LOAD..... 10 PSF
D. WIND LOAD..... PER ASCE 7-10
E. DEAD LOAD.....
TOP CHORD..... 10 PSF
BOTTOM CHORD..... 10 PSF
- TRUSS MANUFACTURER SHALL SUBMIT TRUSS SHOP DRAWINGS AND CALCULATIONS SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF SOUTH CAROLINA FOR APPROVAL PRIOR TO CONSTRUCTION.
- TRUSS MANUFACTURER WILL PROVIDE ALL NECESSARY HANGERS, CLIPS, BRACES, OR SPECIAL CONNECTORS REQUIRED BY MANUFACTURER DESIGN NOT DETAILED OR SHOWN ON STRUCTURAL DRAWINGS. ALL CONNECTORS WILL BE HOT DIP GALVANIZED AND CLEARLY NOTED ON TRUSS SHOP DRAWINGS.
- TRUSS WEB CONFIGURATION AT CONTRACTOR'S OPTION, SUBJECT TO A/E VERIFICATION.
- TRUSS SUPPLIER WILL COORDINATE ALL HVAC/PLUMBING PENETRATIONS AND ADJUST TRUSS WEB CONFIGURATION AS REQUIRED.
- TRUSS SUPPLIER SHALL DESIGN TRUSSES FOR LOADS INDICATED ON PLANS. GIRDER TRUSSES WILL BE DESIGNED TO SUPPORT ROOF MEMBERS FRAMING INTO IT. GIRDER TRUSSES SHALL BE ANCHORED TO SUPPORTS PER TYPICAL DETAIL ON THIS SHEET.
- PROVIDE BRACING/BRIDGING REQUIRED FOR BOTTOM CHORD STABILITY OF TRUSSES.
- ALL TOP AND BOTTOM CHORDS OF TRUSSES WILL BE 2 X 4 MINIMUM.
- ROOF FRAMING SYSTEM TO BE IN ACCORDANCE WITH "PERFORMANCE SPEC" MEETING PLANS AND PROJECT SPECIFICATIONS. THEREFORE, TRUSS FRAMING SCHEME INDICATED IS SCHEMATIC ONLY. CONTRACTOR IS TO PROVIDE FINAL ROOF SYSTEM DESIGN AND CONSTRUCTION INCLUDING FRAMING SCHEME, DESIGN AND CONSTRUCTION OF ALL TRUSSES AND OTHER PRIMARY AND SECONDARY FRAMING MEMBERS, CONNECTIONS AND PERMANENT AND TEMPORARY BRACING, BRIDGING, ETC. TO MEET APPLICABLE CODES AND PROJECT DETAILS. ALTERNATE FRAMING SCHEMES WHICH ALTER LOAD PATHS TO FOUNDATIONS OR OTHER SUPPORTING MEMBERS WILL NOT BE PERMITTED.
- SEE PLANS AND SECTIONS FOR ALL WORK POINTS AND ELEVATIONS.
- SEE GENERAL NOTES ON SHEET S001.

2 TYPICAL MECHANICAL ATTIC CATWALK
S0.04 3/4" = 1'-0"



NOTES:

- SEE PLANS FOR REQUIRED SLAB THICKNESS. SLAB ON GRADE CONSTRUCTION AND CONTROL JOINTS SHALL BE DETERMINED BY THE CONTRACTOR. JOINT LOCATIONS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO CONSTRUCTION.
- SAW CUT CONTROL JOINTS WITHIN 8 HOURS OF SLAB POUR.

CONTROL & CONSTRUCTION JOINTS

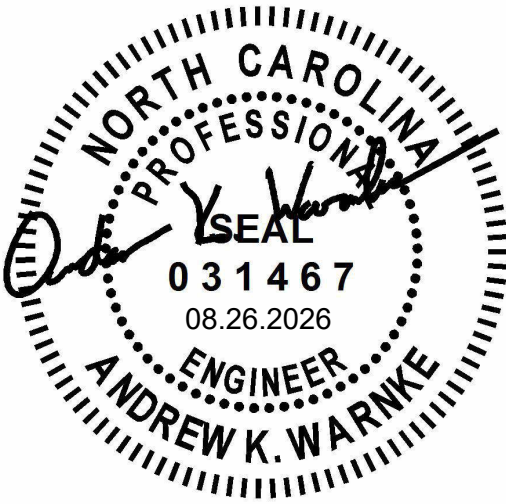
1 CONTROL & CONSTRUCTION JOINTS
S0.04 3/4" = 1'-0"

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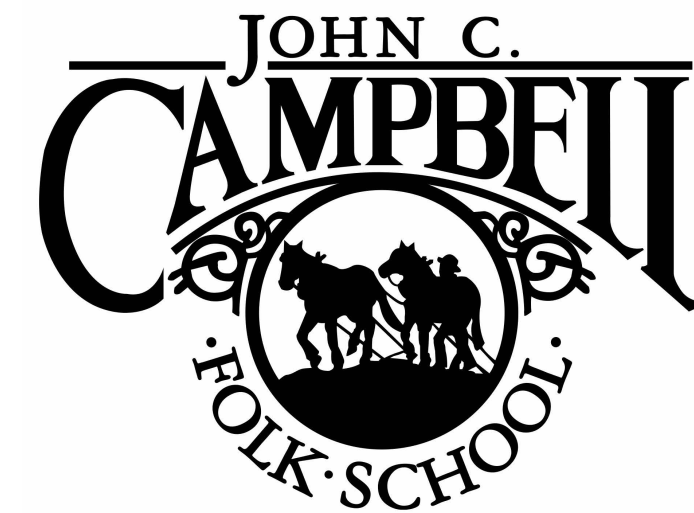
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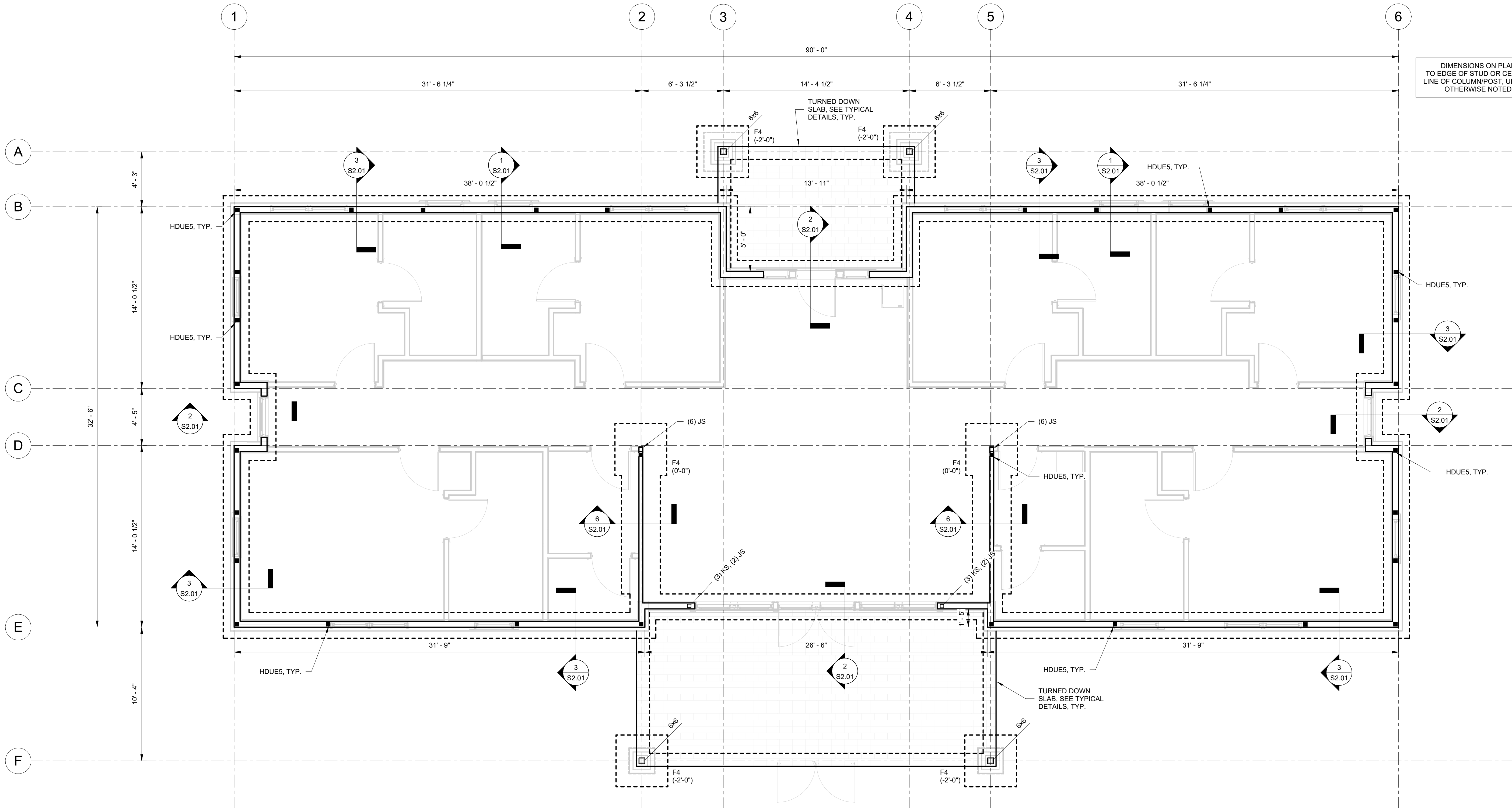
ACCESSIBLE HOUSING

ONE FOLK SCHOOL RD
BRASSTOWN, NC 28902
JOB NO: 26162

FOUNDATION PLAN

S1.01

08.26.2026



1 FOUNDATION PLAN
S1.01 1/4" = 1'-0"

FOUNDATION PLAN NOTES:

- ENTIRE AREA SHALL RECEIVE 4" CONCRETE SLAB ON GRADE REINFORCED WITH 6 X 6 - W1.4 X W1.4 WELDED WIRE REINFORCING, UNLESS NOTED OTHERWISE. SLAB SHALL BEAR ON 4" OF COMPACTED, POROUS FILL. PROVIDE VAPOR BARRIER BETWEEN SLAB AND POROUS FILL (MIN 10 MIL).
- CJ (CONSTRUCTION OR CONTROL JOINTS - CONTRACTOR'S OPTION) SHALL BE PLACED AT EACH COLUMN CENTERLINE, AND INTERMEDIATELY SPACED AT 12'-0" O.C. MAX. EACH WAY BETWEEN COLUMN CENTERLINES. SEE TYPICAL DETAIL ON SHEET S004.
- F. ON PLAN INDICATES A COLUMN FOOTING. SEE TYPICAL DETAIL AND SCHEDULE ON SHEET S003.
- MARKS SHOWN THUS (-XX-XX-) INDICATE TOP OF FOOTING. CONTRACTOR SHALL COORDINATE TOP OF FOOTING ELEVATIONS WITH ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING, AND CIVIL DRAWINGS. THE STRUCTURAL ENGINEER SHALL BE NOTIFIED OF CONFLICTS OR DISCREPANCIES IN TOP OF FOOTING ELEVATIONS.
- CONTRACTOR SHALL COORDINATE WITH SITE DRAWINGS AND PROVIDE FOOTING STEPS AS REQUIRED. SEE TYPICAL DETAIL ON SHEET S002.
- FINISH SLAB ELEVATION SHALL BE 0'-0", UNLESS NOTED THUS (-'-") ON PLAN.
- CONCRETE FLOOR FINISH TOLERANCES SHALL BE, UNLESS NOTED OTHERWISE:
 - A. SLAB-ON-GRADE
 - SPECIFIED OVERALL VALUE: $F_f/F_c = 25/20$
 - MINIMUM LOCAL VALUE: $F_f/F_c = 17/15$
- "HDU. " ON PLAN INDICATES SIMPSON HOLDDOWNS ATTACHED TO A MINIMUM OF (3) 2x STUDS (MATCH WALL MEMBER SIZE) WITH (10) 1/4" x 3" SDS SCREWS & ATTACHED TO CONCRETE WITH 5/8" DIAMETER ANCHOR BOLT (EXTEND TO BOTTOM OF FOOTING OR TURNED-DOWN SLAB).
- SEE TYPICAL CONSTRUCTION DETAILS ON SHEETS S002, S003 & 004.
- SEE GENERAL NOTES ON SHEET S001.

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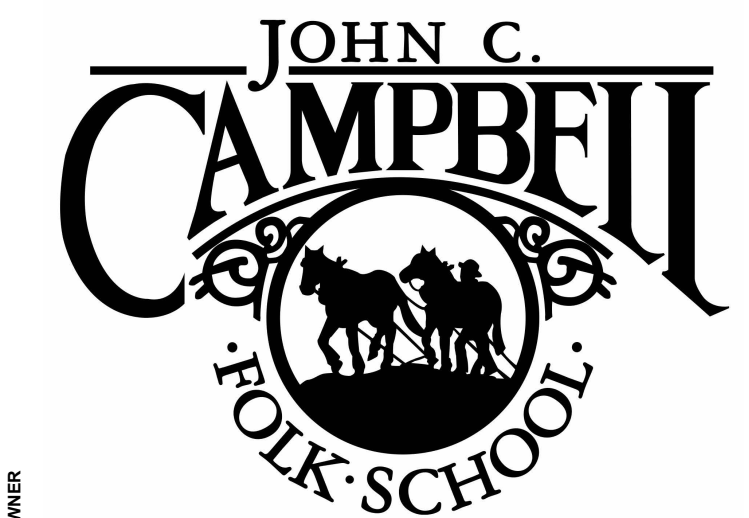
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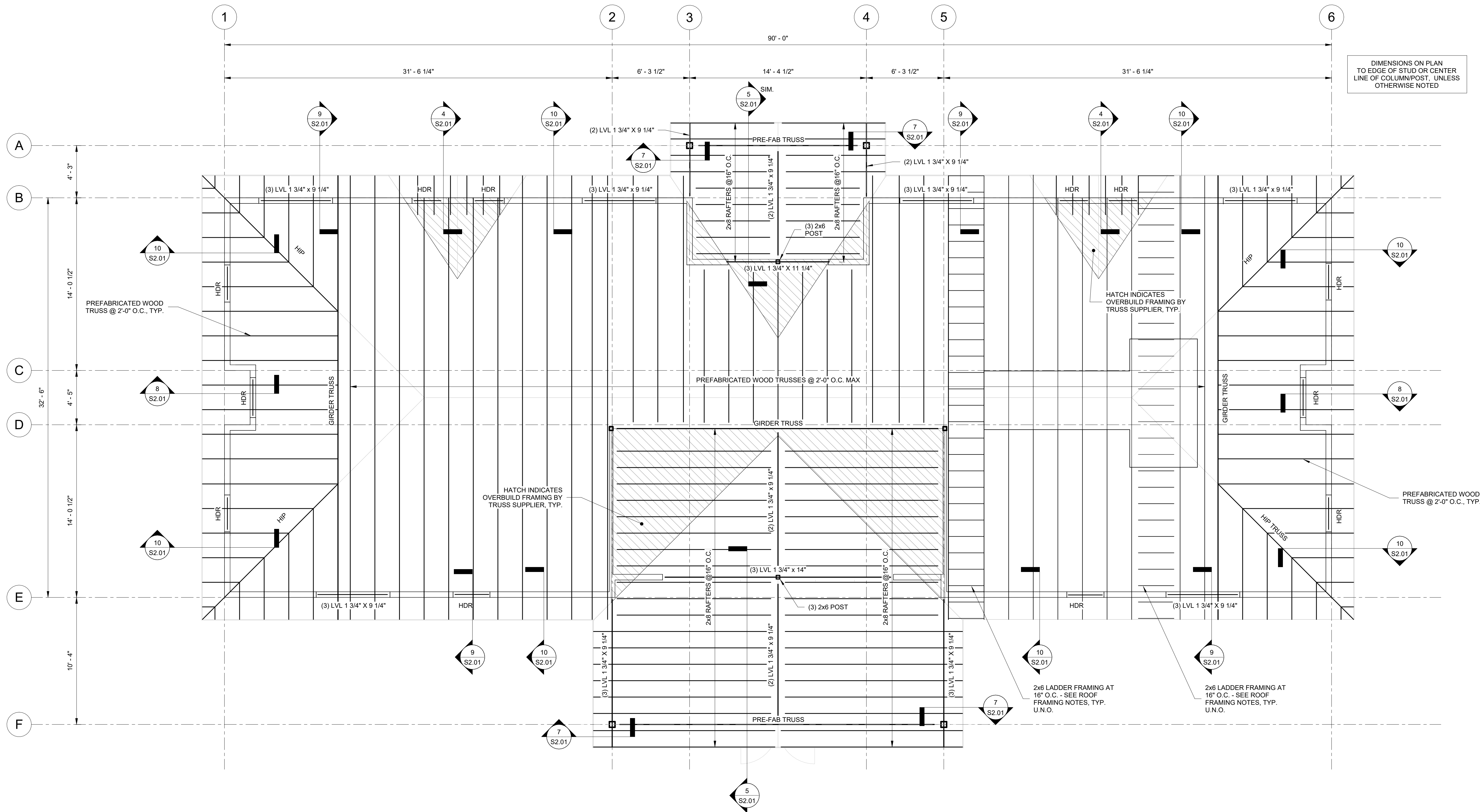
ACCESSIBLE HOUSING

ONE FOLK SCHOOL RD
BRASSTOWN, NC 28602
JOB NO: 26162

ROOF FRAMING PLAN

S1.02

08.26.2026



1 ROOF FRAMING PLAN
S1.02
1/4" = 1'-0"

Roof Framing Plan Notes:

- ENTIRE ATTIC FLOOR INDICATED ON PLAN SHALL RECEIVE 3/4" PLYWOOD OR O.S.B. STRUCTURAL SHEATHING, UNLESS OTHERWISE NOTED. SEE TYPICAL DETAIL ON SHEET S002 FOR FASTENING DETAILS.
- MECHANICAL UNITS UNDER 200 POUNDS NOT SHOWN ON PLAN. ADDITIONAL STRUCTURAL REINFORCING IS NOT REQUIRED FOR THESE UNITS. SEE MECHANICAL FOR LOCATIONS.
- "HDR" ON PLAN INDICATES A WOOD HEADER - SEE ARCH FOR HEADER LOCATIONS. SEE TYPICAL DETAIL FOR HEADER SCHEDULE. HEADERS < 2'-0" ARE NOT SHOWN ON PLAN.
- SEE SCHEDULE ON SHEET S002 FOR ALL HEADER, COLUMN, AND JACK STUD REQUIREMENTS.
- FOR CEILING JOISTS NOT SHOWN, PROVIDE 2X4 @ 1'-4" O.C. UP TO 7'-0" SPANS AND 2X6 @ 1'-4" O.C. UP TO 11'-0" SPANS.
- ALL CONNECTORS ARE MANUFACTURED BY SIMPSON STRONG TIE. PLEASE PROVIDE SIMPSON CONNECTOR OR EQUIVALENT.
- PROVIDE MINIMUM (2) SIMPSON CS16 STRAP TO ATTACH GIRDER TRUSSES/BEAMS/HEADERS TO JACK/KINGS STUDS & POSTS - USE MINIMUM (5) 10D NAILS AT EACH END OF STRAP (IN EACH ELEMENT).
- ALL EXPOSED WOOD AND HEAVY TIMBER CONNECTIONS WILL BE CONNECTED USING NON-EXPOSED FASTENERS, BY OTHERS (EXAMPLE SIMPSON CBT4Z, HGTJZ, ETC).
- AT ALL ATTIC FLOOR AREAS, REMOVE CONFLICTING ROOF TRUSS AND PROVIDE 2x6 LADDER FRAMING @ 1'-4" O.C. TOP & BOTTOM CHORD IN PLACE OF ROOF TRUSS, UNLESS NOTED OTHERWISE ON PLAN.
- SEE ARCHITECTURAL DRAWING FOR WALL LAYOUT AND DIMENSIONS NOT SHOWN ON THIS DRAWING.
- CONTRACTOR SHALL REFERENCE ARCHITECTURAL DRAWINGS FOR ROOF PITCH.
- PROVIDE MIN (2) JACK STUDS AT ALL BEAM/HEADER SUPPORT. UNO. PROVIDE MINIMUM (1) STUD FOR EVERY PLY OF RAFTER/TRUSS.
- WOOD LEDGER TYPICAL FASTENERS:
A. 2X10 - USE (3) 1/4X6 SDS @ EA. STUD (U.N.O.)
B. 2X8 - USE (3) 1/4X6 SDS @ EA. STUD (U.N.O.)
C. 2X6 - USE (2) 1/4X6 SDS @ EA. STUD (U.N.O.)
- SEE TYPICAL CONSTRUCTION DETAILS ON SHEETS S002, S003, & S004.
- SEE GENERAL NOTES ON SHEET S001.

USE LUS210 SIMPSON JOIST HANGERS FOR 2x12 JOISTS.

USE LUS28 SIMPSON JOIST HANGARS FOR 2x10 JOISTS.

USE LUS28 SIMPSON JOIST HANGARS FOR 2x6 JOISTS.

JOIST HANGARS FOR LVL BEAMS TO HAVE SAFE WORKING LOAD CAPACITY OF 3,000 LB

PROVIDE CORROSION RESISTANT COATING FOR ALL @ ALL EXTERIOR EXPOSED FRAMING.

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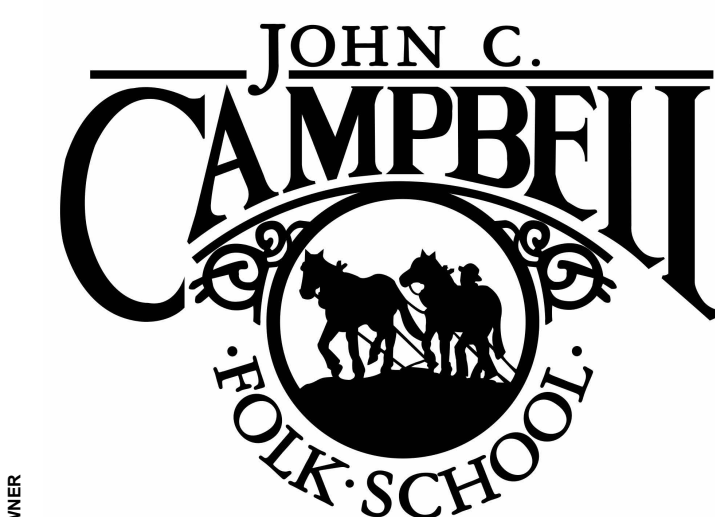
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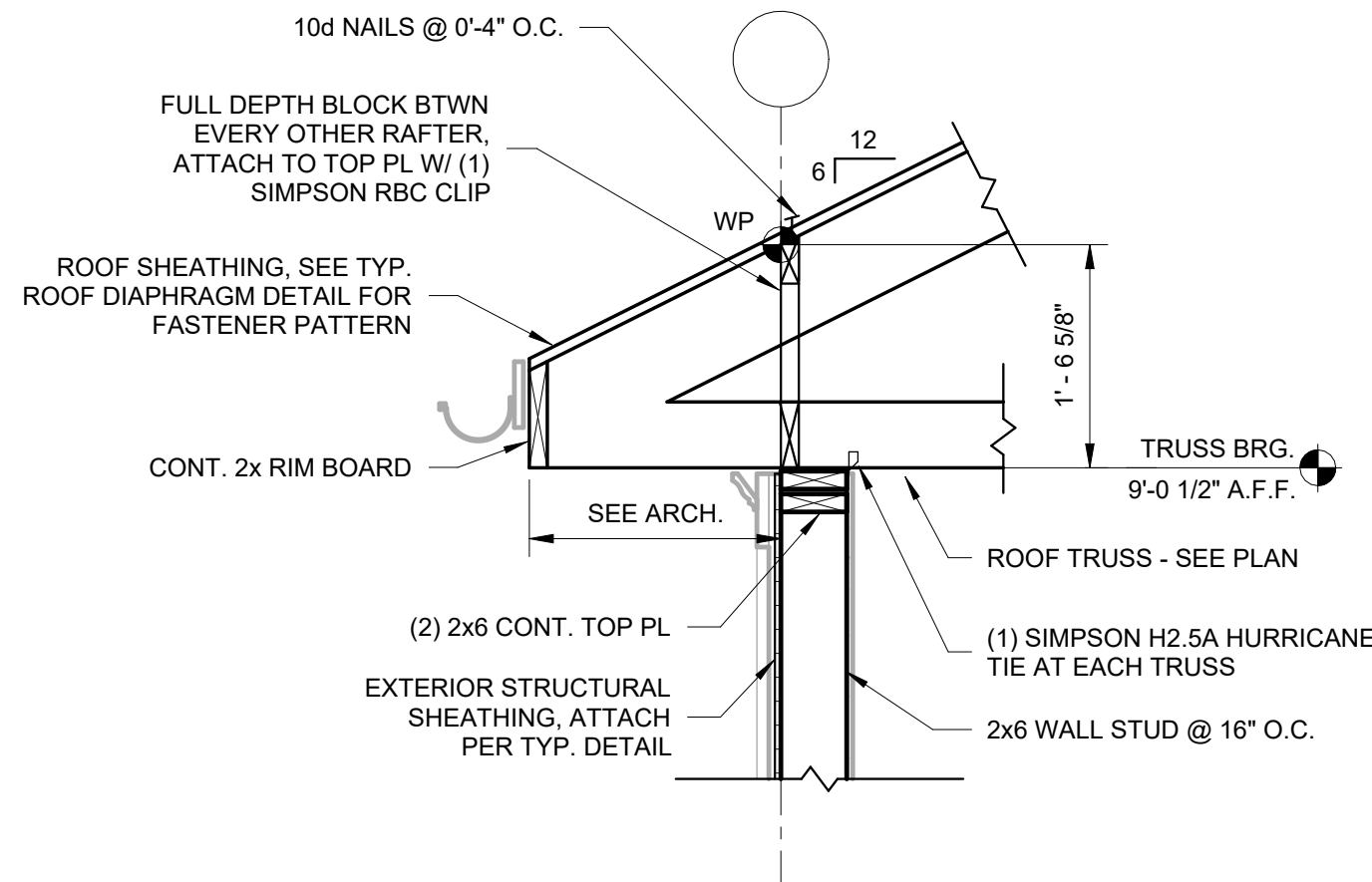
ACCESSIBLE HOUSING

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JOB NO: 26162

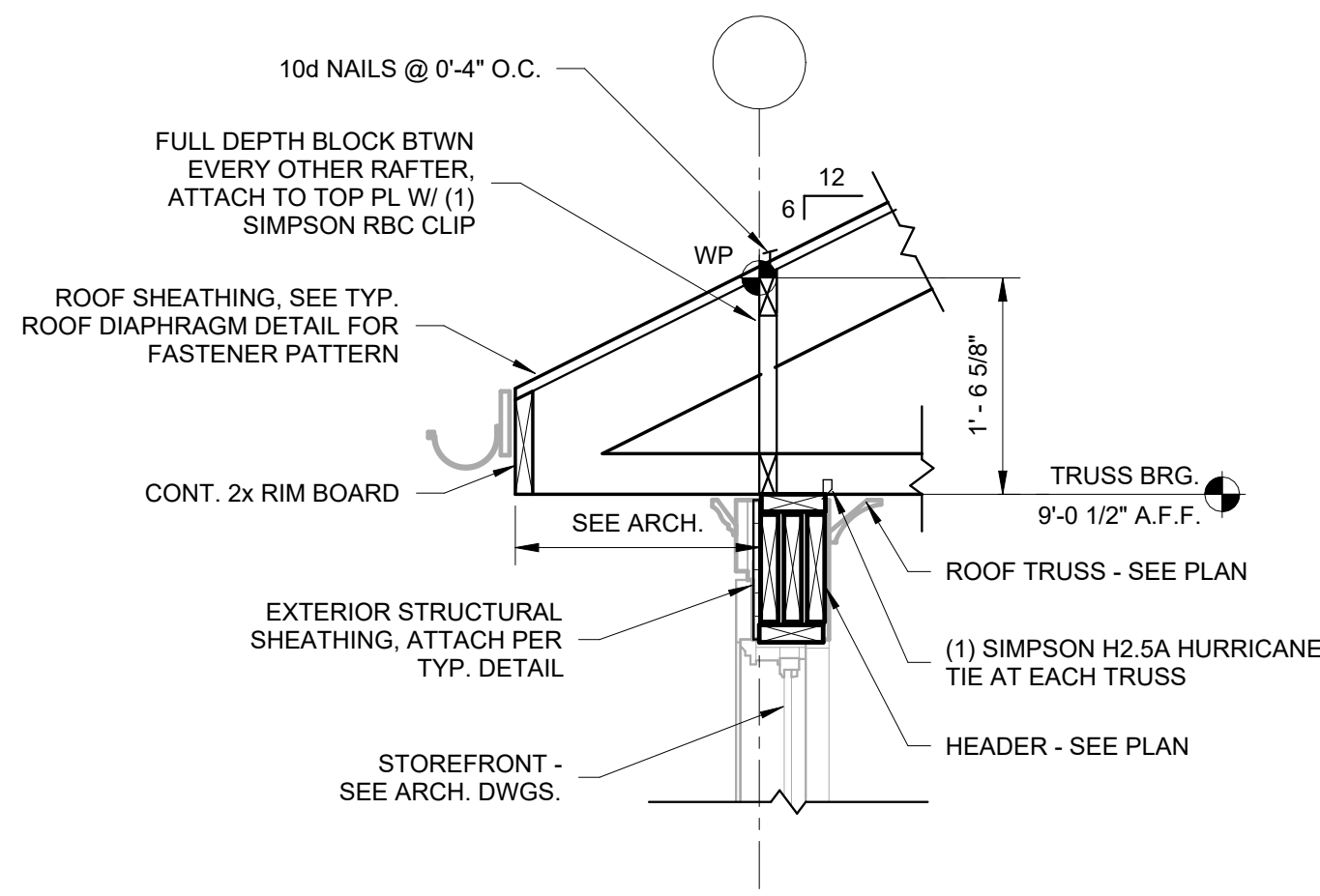
SECTIONS

S2.01

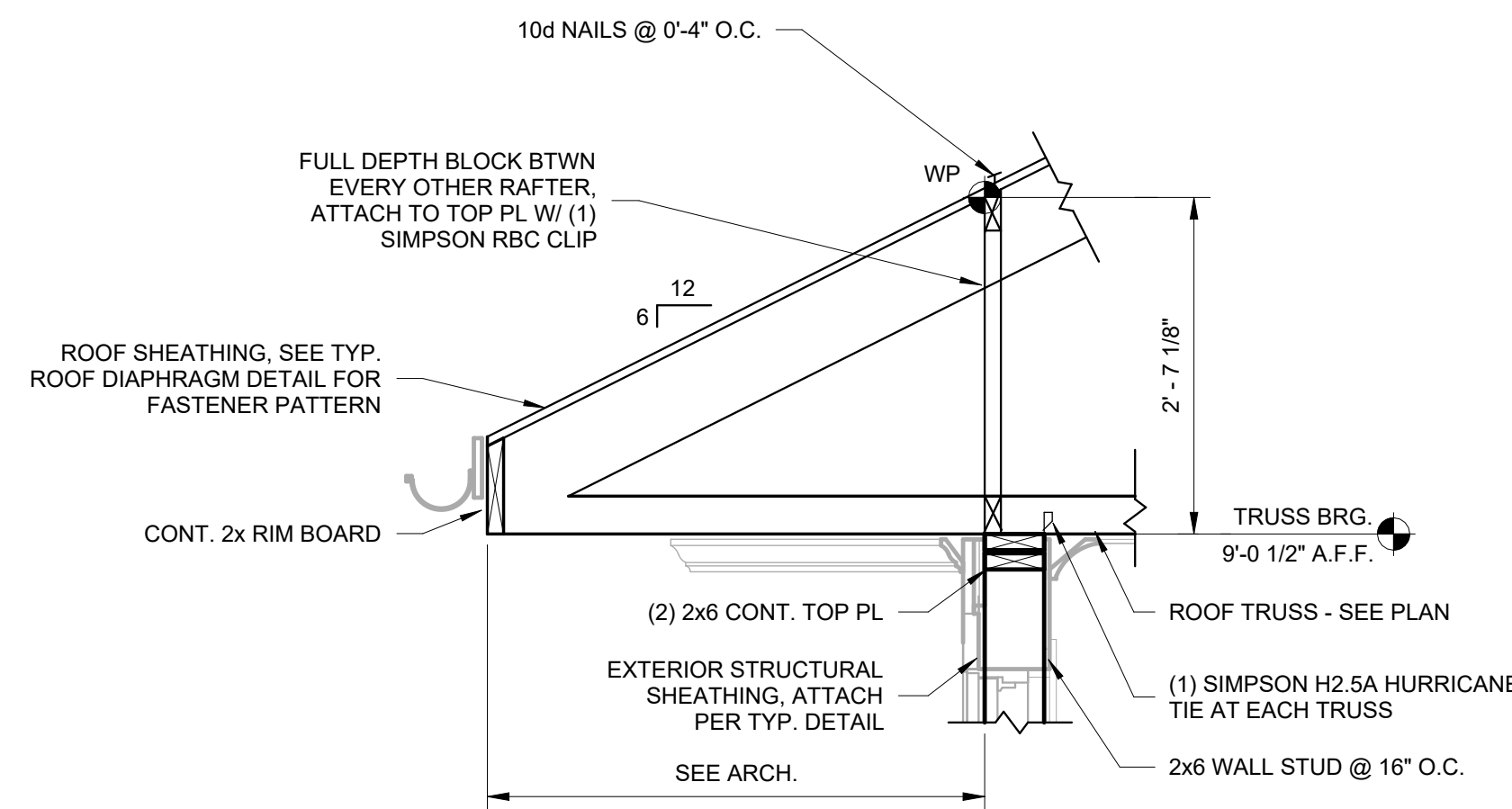
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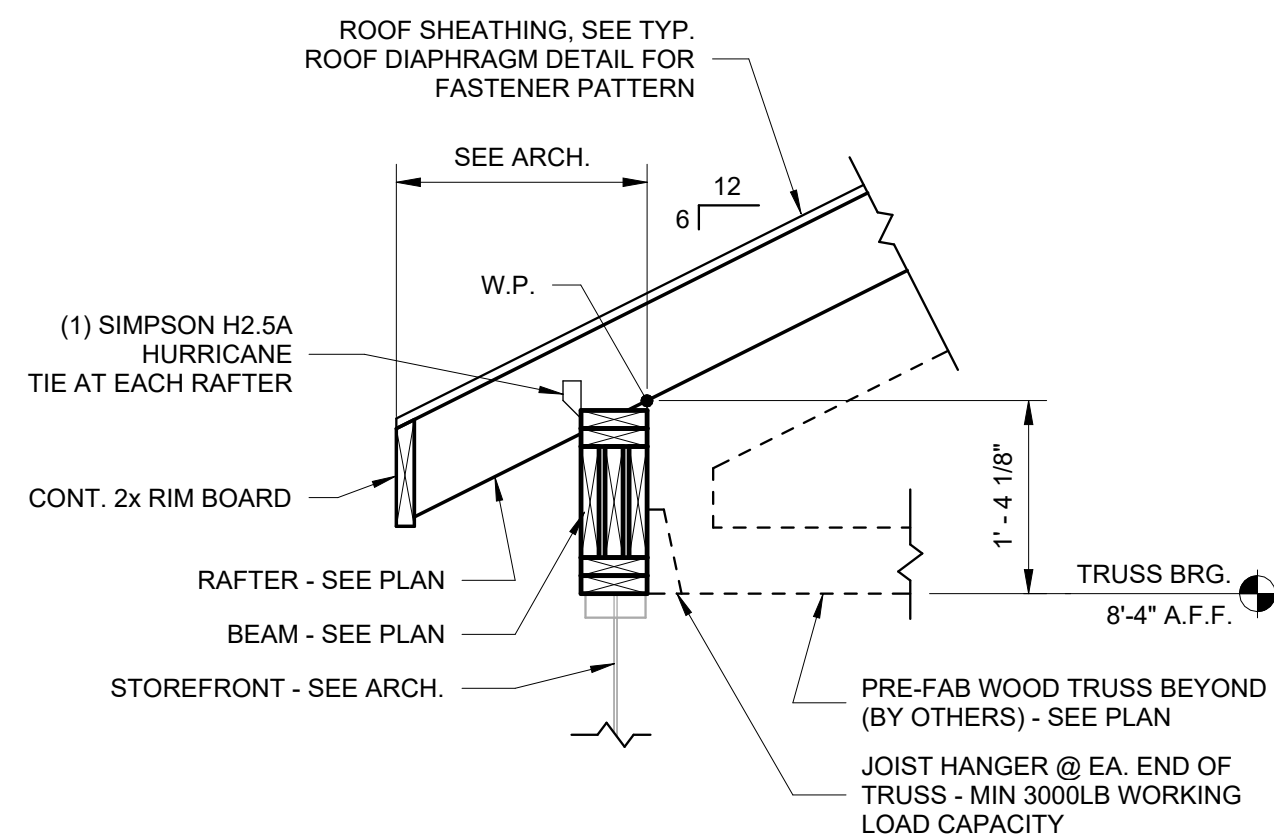
10 SECTION
S2.01 3/4" = 1'-0"



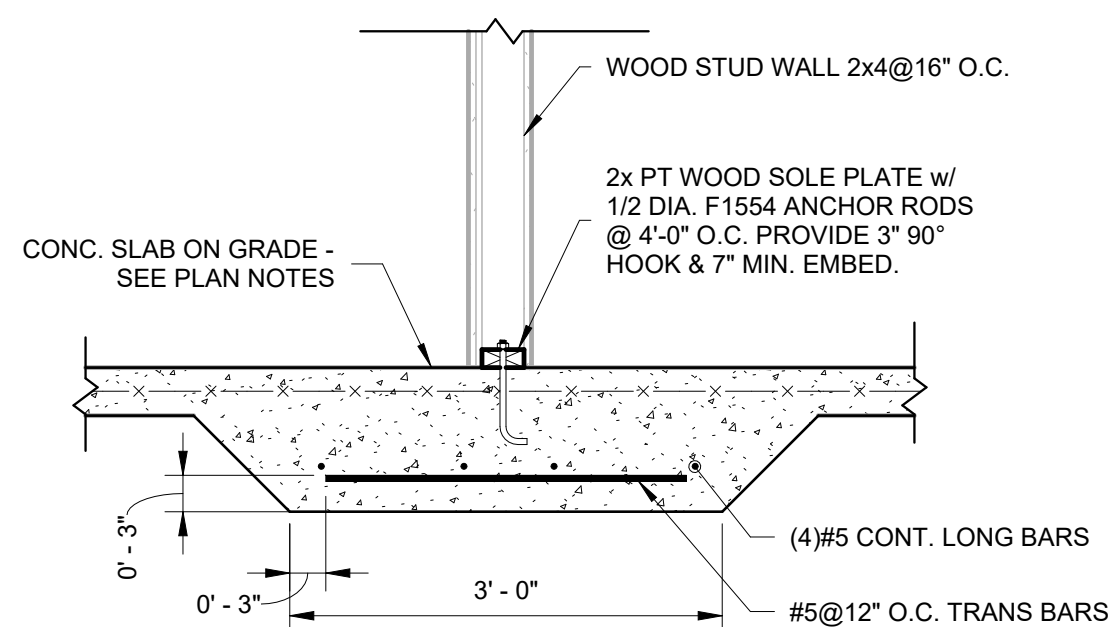
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S2.01 3/4" = 1'-0"



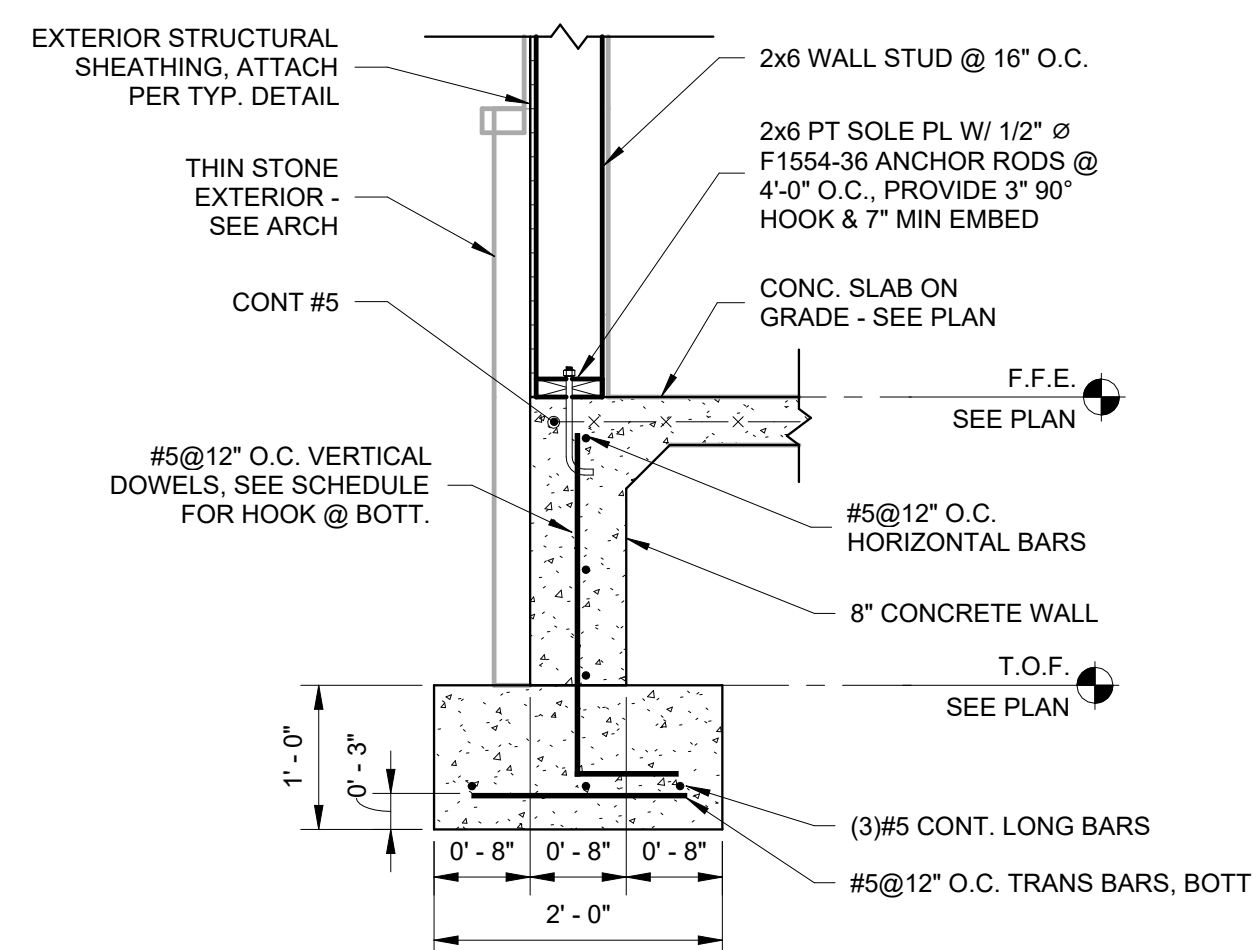
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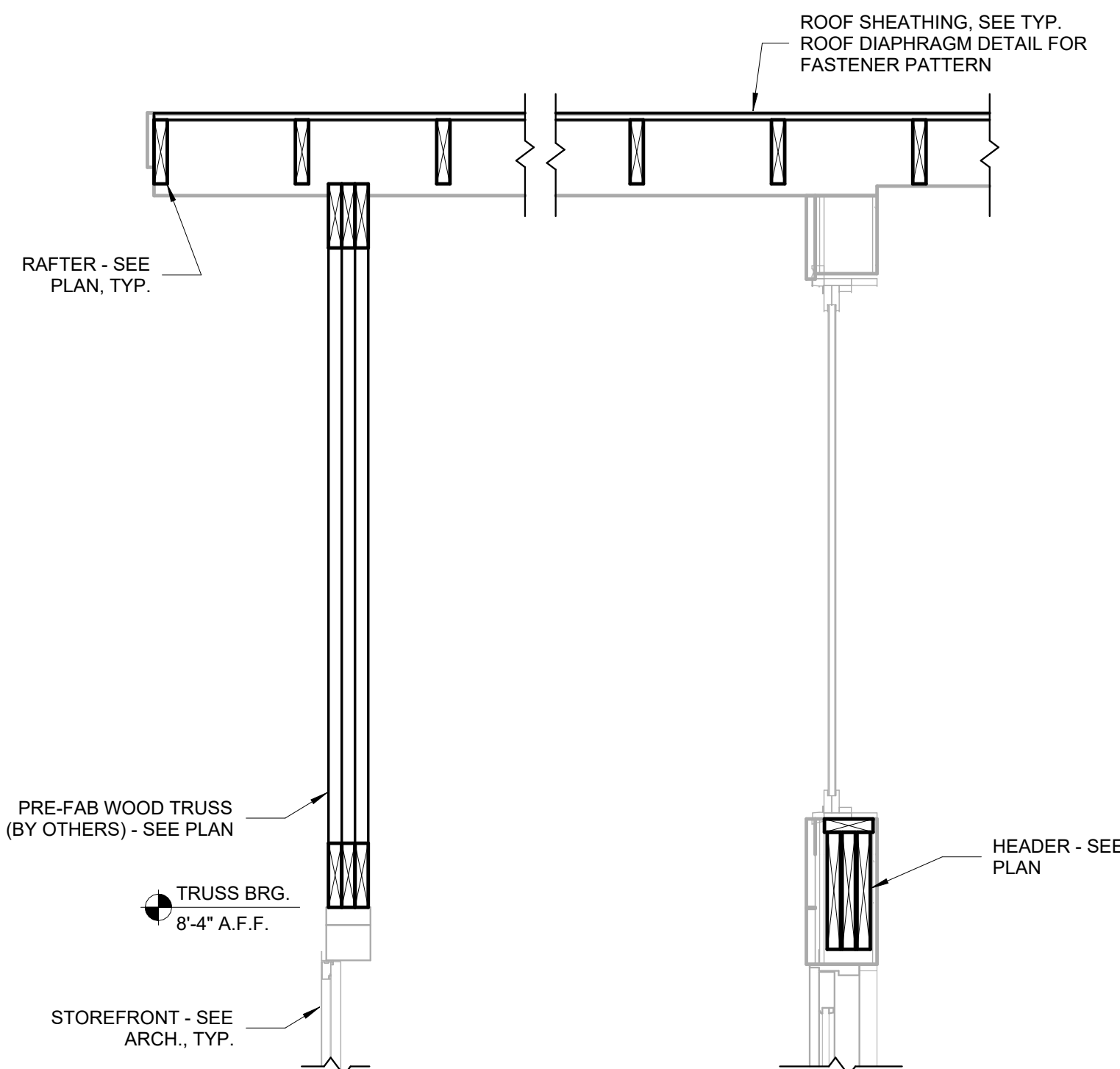
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S2.01 3/4" = 1'-0"



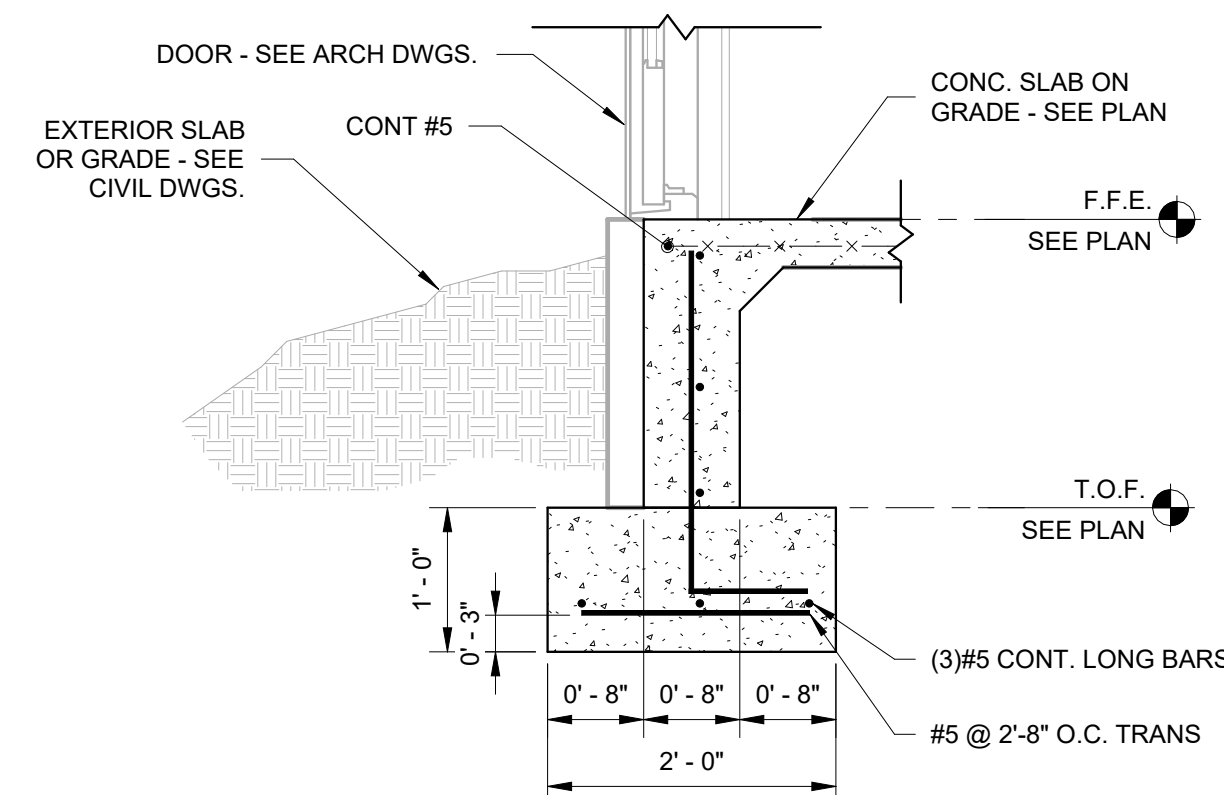
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S2.01 3/4" = 1'-0"



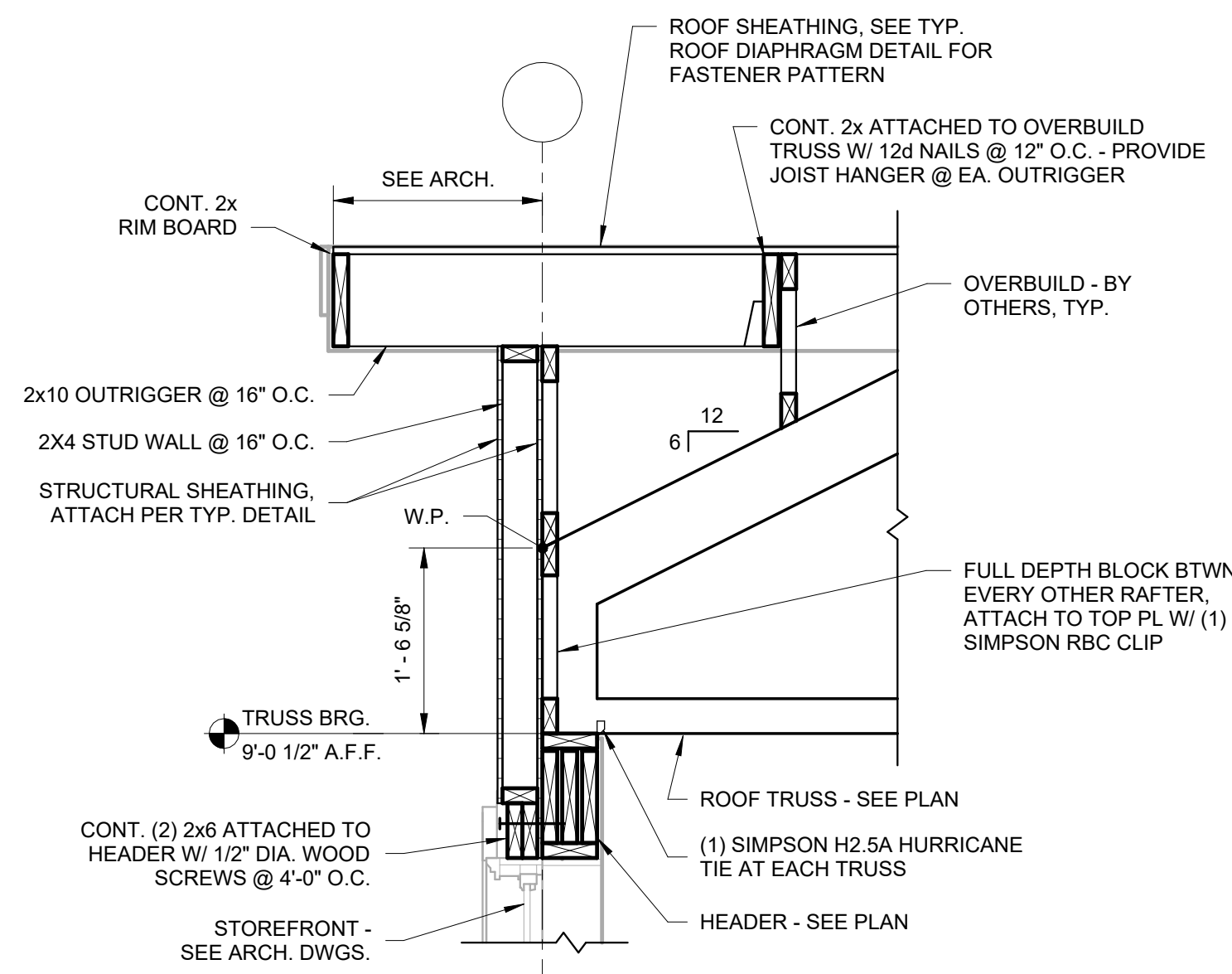
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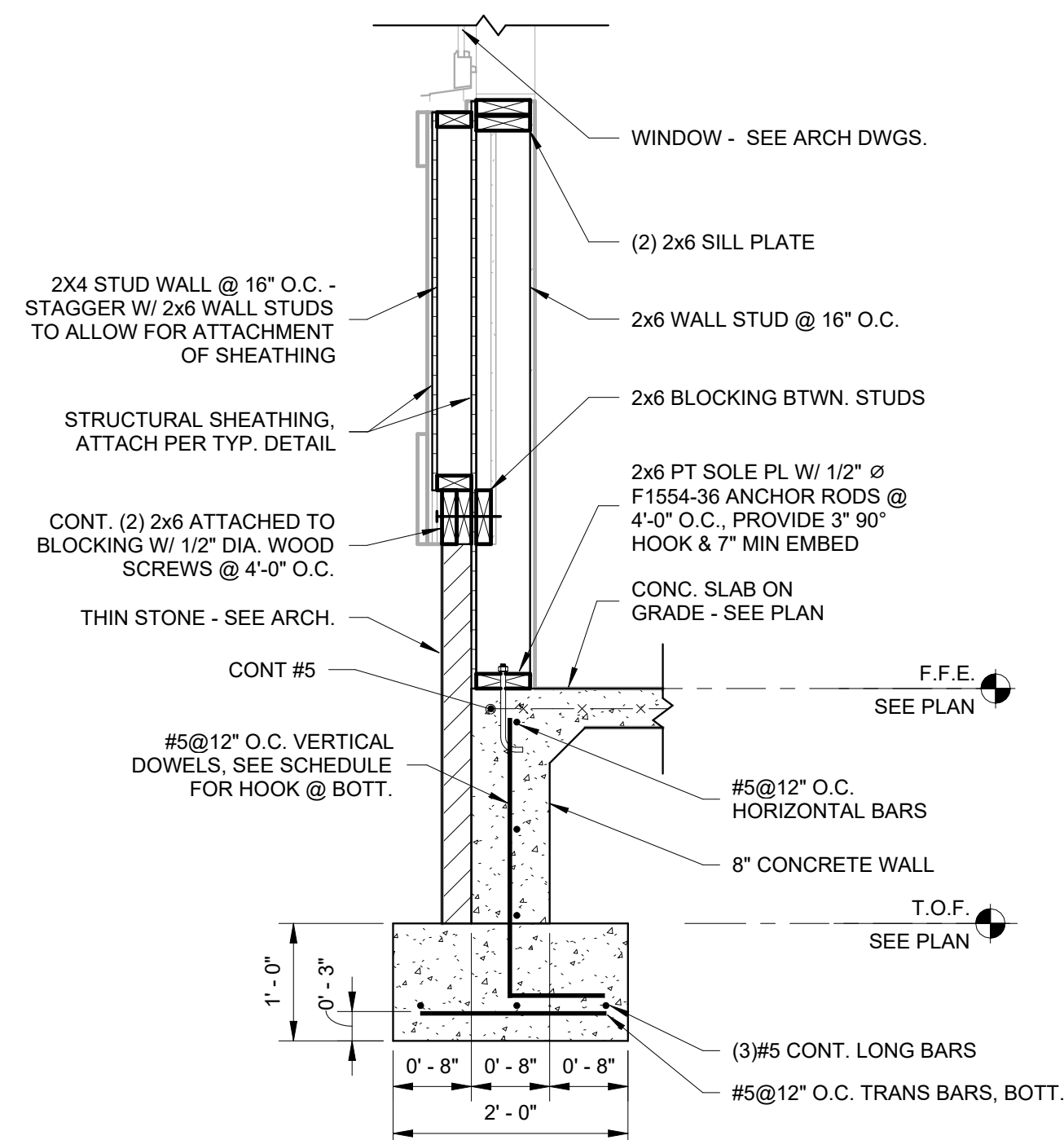
5 SECTION
S2.01 3/4" = 1'-0"



2 SECTION
S2.01 3/4" = 1'-0"



4 SECTION
S2.01 3/4" = 1'-0"

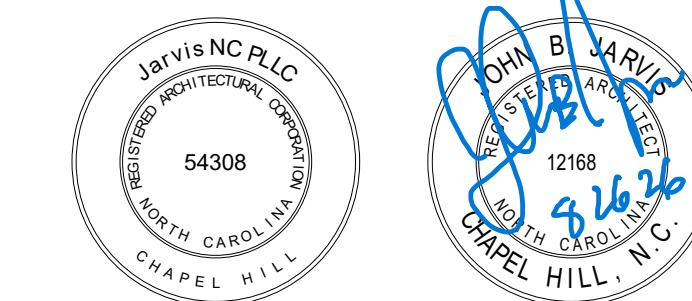


1 SECTION
S2.01 3/4" = 1'-0"

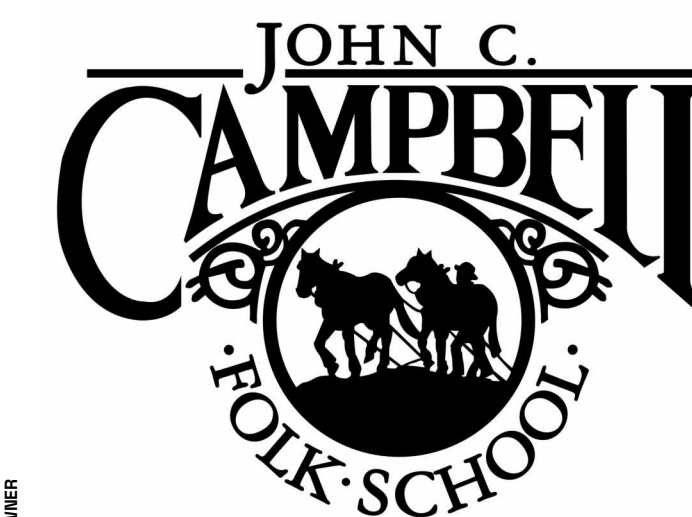
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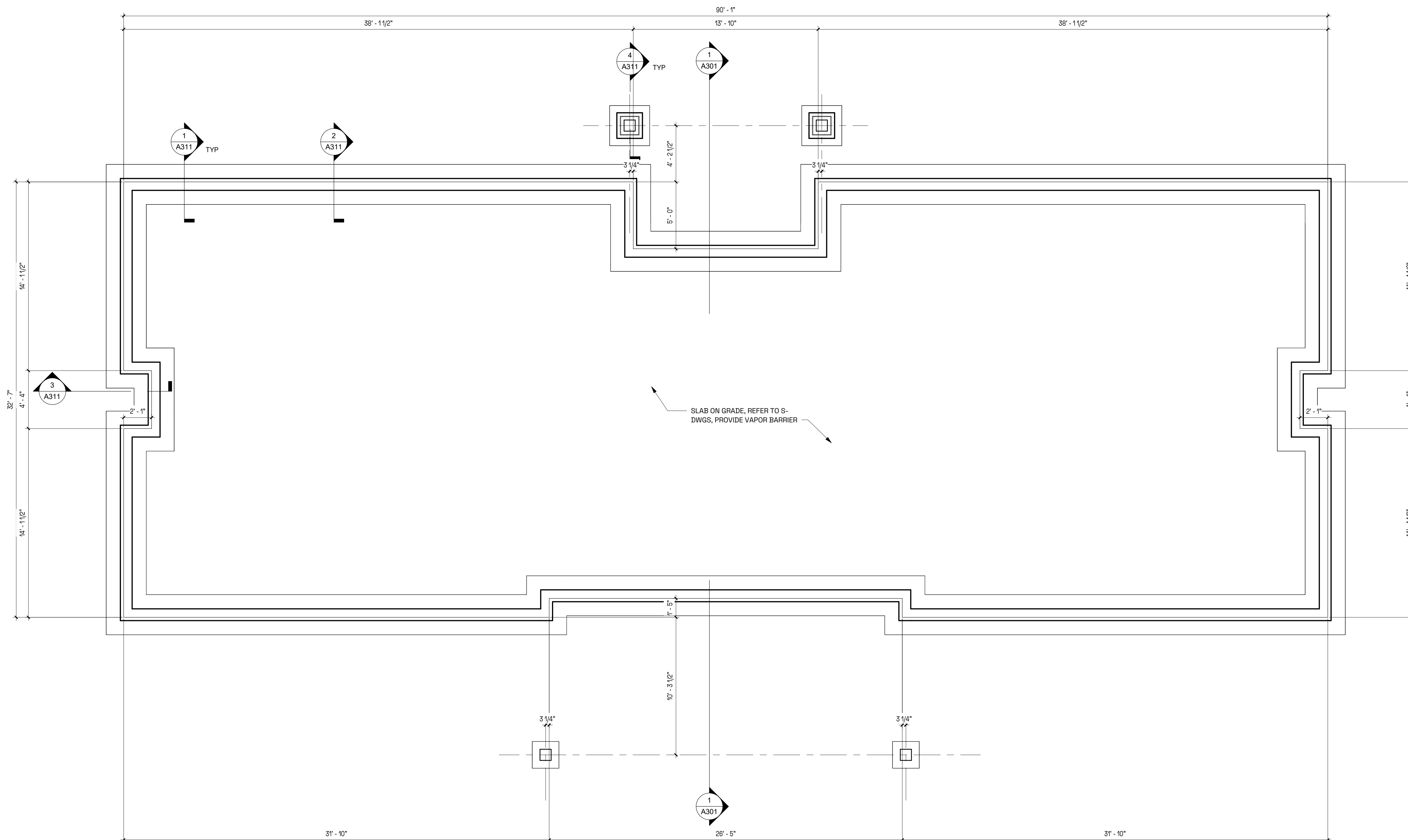
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PROJECT INFO: ONE FOLK SCHOOL RD
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JOB NO: 26162

A100

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SCALE 1/4" = 1'-0"

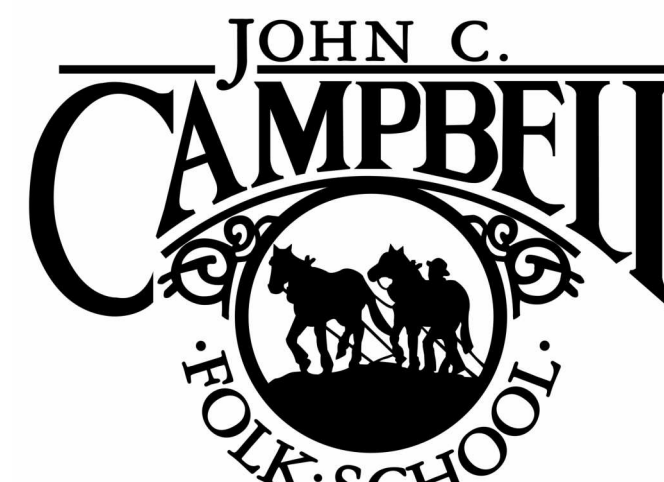
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PROJECT INFO:
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JOB NO: 26162

A101

08.26.26



 EXISTING CONSTRUCTION

 DEMOLITION SCOPE

 NEW CONSTRUCTION

 ADA CLEARANCES

COMMENTS

 NAAWS CABINET DESIGN SERIES

4 1/2"

(1) LAYER 1/2" GWB EACH SIDE

SAB AT BATHS

2x4 WOOD STUD

SECTION

PLAN

REFER TO GA FILE NO. WP 3241 FOR ADDITIONAL DETAILS
STC 50

5 3/8"

(1) LAYER 5/8" GWB EACH SIDE
SAB
RESILIENT CHANNELS @24" OC

SECTION

2x4 WOOD STUD @16" OC

PLAN

PAINT DOORS AND FRAMES PT-02. UNO; PROVIDE HDWR BY EMTEK, HELIOS, MOD RECT ROSETTE, BLACK;
ENTRY HDWR TO ALSO INCLUDE EMTEK SQUARE DEADBOLT, BLACK; COORD KEYING W OWNER

LOCATION	DOOR INFO.		HDWR	GENERAL
MARK	W	H	FUNCTION	REMARKS
101A	2' - 0"	8' - 0"	NA	CLAD WOOD STATIONARY DOOR
101B	3' - 0"	8' - 0"	ENTRY	SOLID WOOD DOOR, HEMLOCK, BEVELED GLASS
101C	2' - 0"	8' - 0"	NA	CLAD WOOD STATIONARY DOOR
102	3' - 0"	6' - 8"	KEYED	MOLDED COMPOSITE DOOR, MIRROR ON BED SIDE
103	3' - 0"	6' - 8"	PRIVACY	MOLDED COMPOSITE DOOR
104	3' - 0"	6' - 8"	PRIVACY	MOLDED COMPOSITE DOOR
105	3' - 0"	6' - 8"	KEYED	MOLDED COMPOSITE DOOR, MIRROR ON BED SIDE
106	3' - 0"	8' - 0"	NA	CLAD WOOD STATIONARY DOOR
107	3' - 0"	6' - 8"	KEYED	MOLDED COMPOSITE DOOR, MIRROR ON BED SIDE
108	3' - 0"	6' - 8"	PRIVACY	MOLDED COMPOSITE DOOR
109	3' - 0"	6' - 8"	KEYED	MOLDED COMPOSITE DOOR
110	3' - 0"	6' - 8"	PASSAGE	MOLDED COMPOSITE DOOR
111A	6' - 0"	8' - 0"	NA	CLAD WOOD STATIONARY DOOR
111B	6' - 0"	8' - 0"	ENTRY	CLAD WOOD DOOR
111C	6' - 0"	8' - 0"	NA	CLAD WOOD STATIONARY DOOR
112	3' - 0"	6' - 8"	KEYED	MOLDED COMPOSITE DOOR
113	3' - 0"	6' - 8"	PASSAGE	MOLDED COMPOSITE DOOR
114	3' - 0"	6' - 8"	PRIVACY	MOLDED COMPOSITE DOOR
115	3' - 0"	6' - 8"	KEYED	MOLDED COMPOSITE DOOR, MIRROR ON BED SIDE
116	3' - 0"	8' - 0"	NA	CLAD WOOD STATIONARY DOOR
117	3' - 0"	6' - 8"	KEYED	MOLDED COMPOSITE DOOR, MIRROR ON BED SIDE
118	3' - 0"	6' - 8"	PRIVACY	MOLDED COMPOSITE DOOR
119	3' - 0"	6' - 8"	PRIVACY	MOLDED COMPOSITE DOOR
120	3' - 0"	6' - 8"	KEYED	MOLDED COMPOSITE DOOR, MIRROR ON BED SIDE

- A. DO NOT SCALE DRAWINGS, WRITTEN DIMENSIONS SHALL ESTABLISH LOCATION OF ALL PARTITIONS. LARGER SCALE DRAWINGS HAVE PRIORITY OVER SMALLER SCALE DRAWINGS. CONTRACTOR SHALL NOTIFY THE ARCHITECT OF ANY DISCREPANCIES IN THE DRAWINGS BEFORE PROCEEDING WITH CONSTRUCTION.
- B. NOTES TO "ALIGN" MEAN TO ALIGN STUDS FACES UNLESS OTHERWISE NOTED AND SHALL HAVE PRIORITY OVER A DIMENSIONED LOCATIONS.
- C. DRYWALL PARTITION CONTROL JOINTS ARE REQUIRED AT APPROXIMATELY 30'-0" O.C. FOR STRAIGHT AND CONTINUOUS WALLS. AT OPENING LOCATIONS, OR AS NOTED OTHERWISE ON DRAWINGS. WHERE NOT SPECIFICALLY INDICATED ON THE DRAWINGS SUBMIT CONTRACTOR'S PROPOSED CONTROL JOINT LOCATIONS TO ARCHITECT FOR APPROVAL.
- D. PROVIDE BLOCKING ADEQUATE TO SUPPORT APPLIED LOADS INCLUDING HANDRAILS, GRAB BARS, WALL-MOUNTED PICTURES, ETC.

A.	DOORS AND FRAME OPENINGS ARE TO BE LOCATED 4" FROM ADJACENT INTERSECTING WALL UNO
B.	DIMENSIONS OF WALLS AND PARTITIONS ARE TO STUD FACE UNLESS NOTED OTHERWISE
C.	CONFIRM AND COORDINATE APPLIANCES AND EQUIPMENT WITH OWNER
D.	PARTITIONS TO BE TYPE A UNLESS NOTED OTHERWISE

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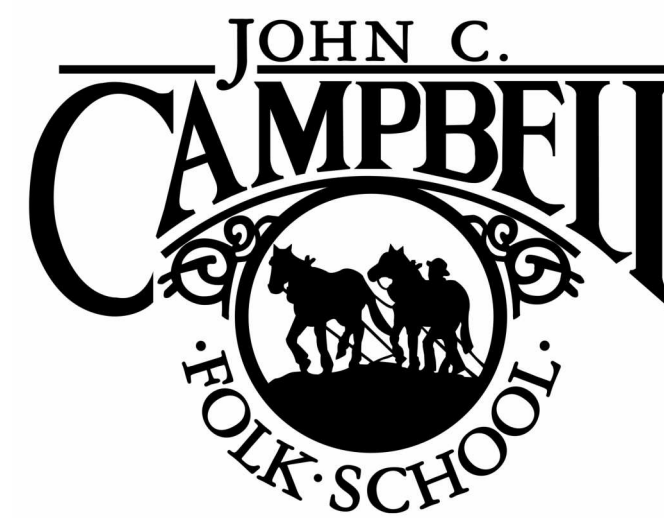
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STAMP

ISSUANCES

NO.	DATE	DESCRIPTION
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OWNER

PROJECT INFO: ONE FOLK SCHOOL RD
BRASSTOWN, NC 28902
JOB NO: 26162

ONE FOLK SCHOOL RD
BRASSTOWN, NC 28902
JOB NO: 26162

A111

08.26.26

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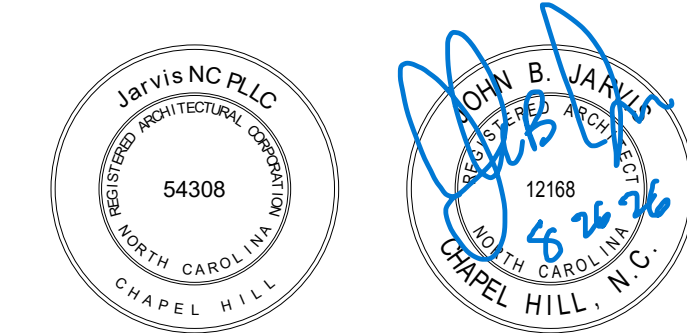
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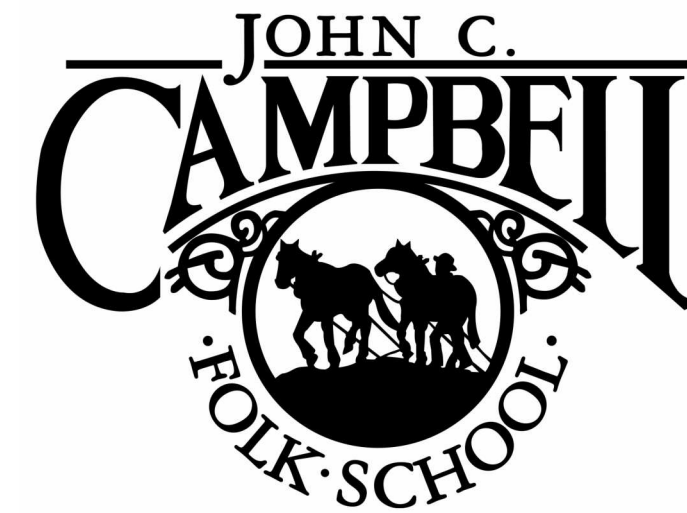
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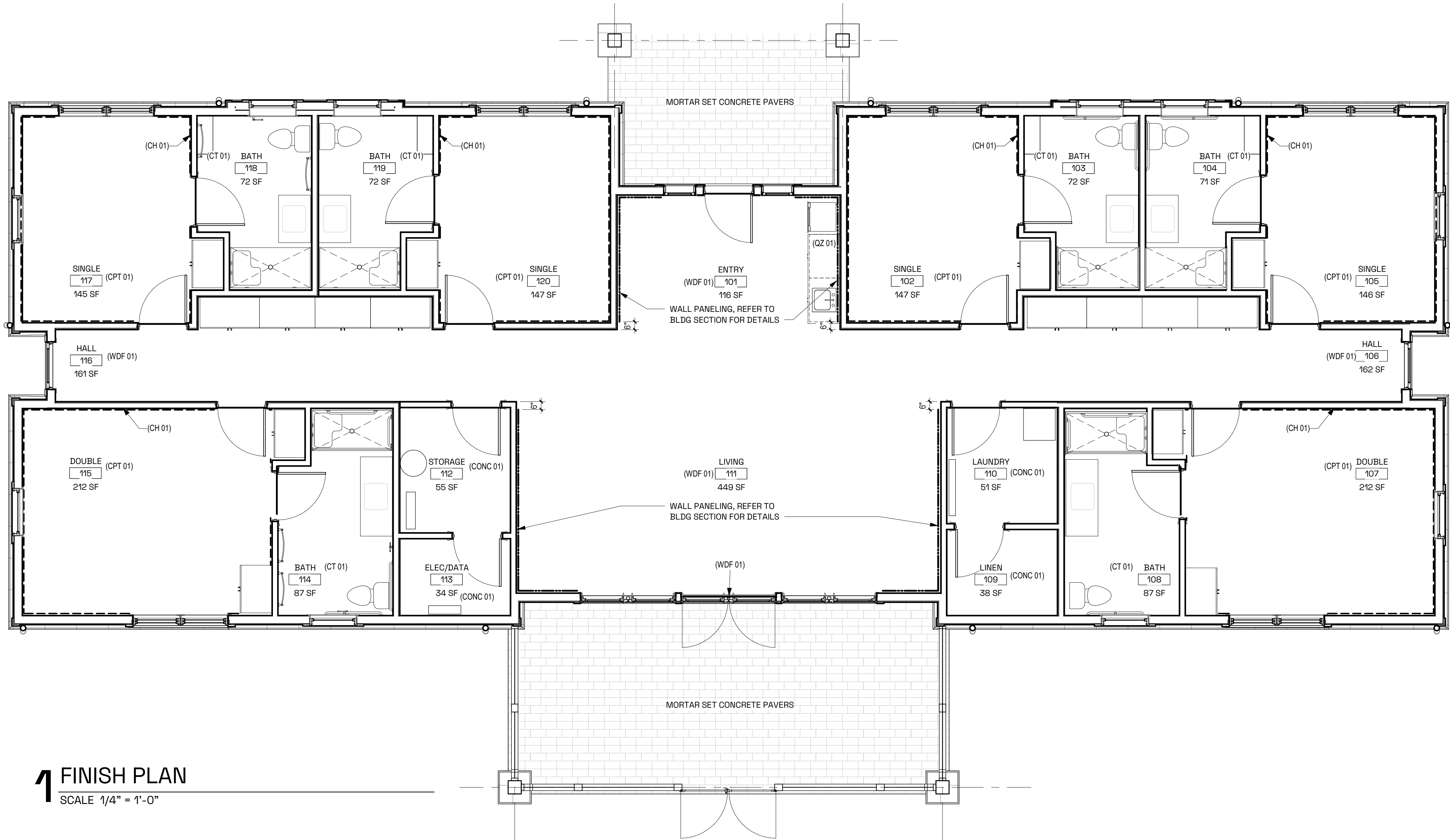
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ONE FOLK SCHOOL RD
BRASSTOWN, NC 28902
JOB NO: 26162

FINISH PLAN

A121

08.26.26



1 FINISH PLAN
SCALE 1/4" = 1'-0"

FINISHES

INTERIOR TRIM IS TYPICAL, UNO

MARK	DESCRIPTION	MANUFACTURER	ITEM NAME	ITEM NUMBER	SIZE	FINISH	REMARKS
EXTERIOR PAINT							
PT 04	LATEX PAINT	TBD	TBD	COLOR 1		EGGSHELL	
PT 05	LATEX PAINT	TBD	TBD	COLOR 2		EGGSHELL	
PT 06	LATEX PAINT	TBD	TBD	COLOR 3		EGGSHELL	
FLOORING							
CONC 01	SEALED CONCRETE	CLEMMONS	SUPER SEAL B-COAT				PREP SURFACE PER MFR REQ'S
CPT 01	CARPET	EF CONTRACT	BATISTE MODERN	BEIGE BTM72	BROADLOOM		PROVIDE MOISTURE BARRIER IF REQUIRED BY MFR
WDF 01	WOOD FLOORING	NYDREE FLOORING	MAVERICK	OAK	8"		PROVIDE MOISTURE BARRIER IF REQUIRED BY MFR
INTERIOR PAINT							
PT 01	LATEX PAINT	TBD	TBD	COLOR 1		EGGSHELL	LOW/NO VOC, FIELD
PT 02	LATEX PAINT	TBD	TBD	COLOR 2		SATIN	LOW/NO VOC, TRIM
PT 03	LATEX PAINT	TBD	TBD	CEILING PAINT		FLAT	LOW/NO VOC, CEILINGS
INTERIOR TRIM							
CH 01	WOOD CHAIR RAIL	NA	NA	425	4 1/2"	PT 02	
CR 01	WOOD CROWN	NA	NA	L8086	6"	PT 02	
CS 01	WOOD CASING	NA	NA	M432 + WM280		PT 02	3 1/2" TRIM W BACKBAND
WB 01	WOOD BASE	NA	NA	M432E	5 1/2"	PT 02	PROVIDE SHOE MOULD, NO BASE IN BATHS
MILLWORK							
PL 01	PLASTIC LAMINATE	TBD	TBD	TBD		MATTE	
QZ 01	QUARTZ	HANSTONE	UPTOWN GREY		3 CM	POLISHED	
WD 01	WOOD VENEER	NA	RIFT OAK	NA		FLAT	SOLID WD EDGE BANDING, CLEAR 2K FINISH
TILE							
CT 01	FLOOR TILE	TILE BAR	BOSCATO	CREAM WHITE	12"x24"	MATTE	LATICRETE EPOXY GROUT

PROJECT FINISH NOTES

- PROVIDE LEVEL V FINISH ON ALL GWB SURFACES THAT ARE TO RECIEVE WALL COVERINGS. REF. TO PLAN AND INT. ELEVATIONS
- PAINT GYPSUM BOARD PT-01 UNO
- PROVIDE WD-01 BASE UNO

BATH ACCESSORIES

COORDINATE ADDITIONAL ACCESSORIES WITH OWNER

MARK	DESCRIPTION	MANUFACTURER	MODEL	REMARKS
T1	GRAB BAR	BOBRICK	B-5806 X 42	
T2	GRAB BAR	BOBRICK	B-5806 X 18	
T3	GRAB BAR	BOBRICK	B-5806 X 36	
T4	TISSUE HOLDER	Delta Faucet Company	79750-SS	
T5	TOWEL RING	Delta Faucet Company	79746-SS	
T6	TOWEL BAR	Delta Faucet Company	79725-SS	

PLUMBING FIXTURES

ITEM	MFR	MODEL	FINISH	NOTES
TOILET	AMERICAN STANDARD	STUDIO 226AA10(4/5).020	WHITE	HANDLE LOCATED OPPOSITE SIDE WALL
BATH SINK	KOHLER	LADENA K-2215-O	WHITE	
BATH FAUCET	KOHLER	VENZA K-28124-4N-BN	BN	
SHOWER SURROUND	FREEDOM SHOWERS	APF6033BF5P(L/R) 62" X 33"	WHITE	PROVIDE SHOWER SEAT, TYP. AND GRAB BARS @DOUBLE BATHS
SHOWER KIT	KOHLER	VENZA K-TS28128-4G-BN	BN	PROVIDE K-8304 VALVE
HANDSHOWER	KOHLER	AWAKEN K-99242-G-BN	BN	
SHOWER DIVERter	KOHLER	VENZA K-T28130-4-BN	BN	PROVIDE K-737 VALVE
SHOWER WALL SUPPLY	KOHLER	AWAKEN K-98350-BN	BN	
KITCHENETTE SINK	ELKAY	ECTRU21179T CROSSTOWN	SS	
KITCHENETTE FAUCET	KOHLER	CRUE K-22972-2MB	MB	18 GAUGE 22-1/2" X 18-1/2" X 9" SINGLE BOWL UNDERMOUNT

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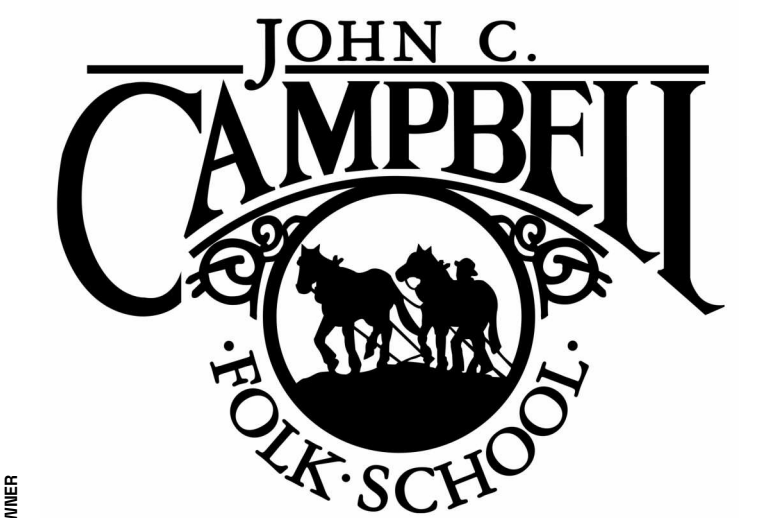
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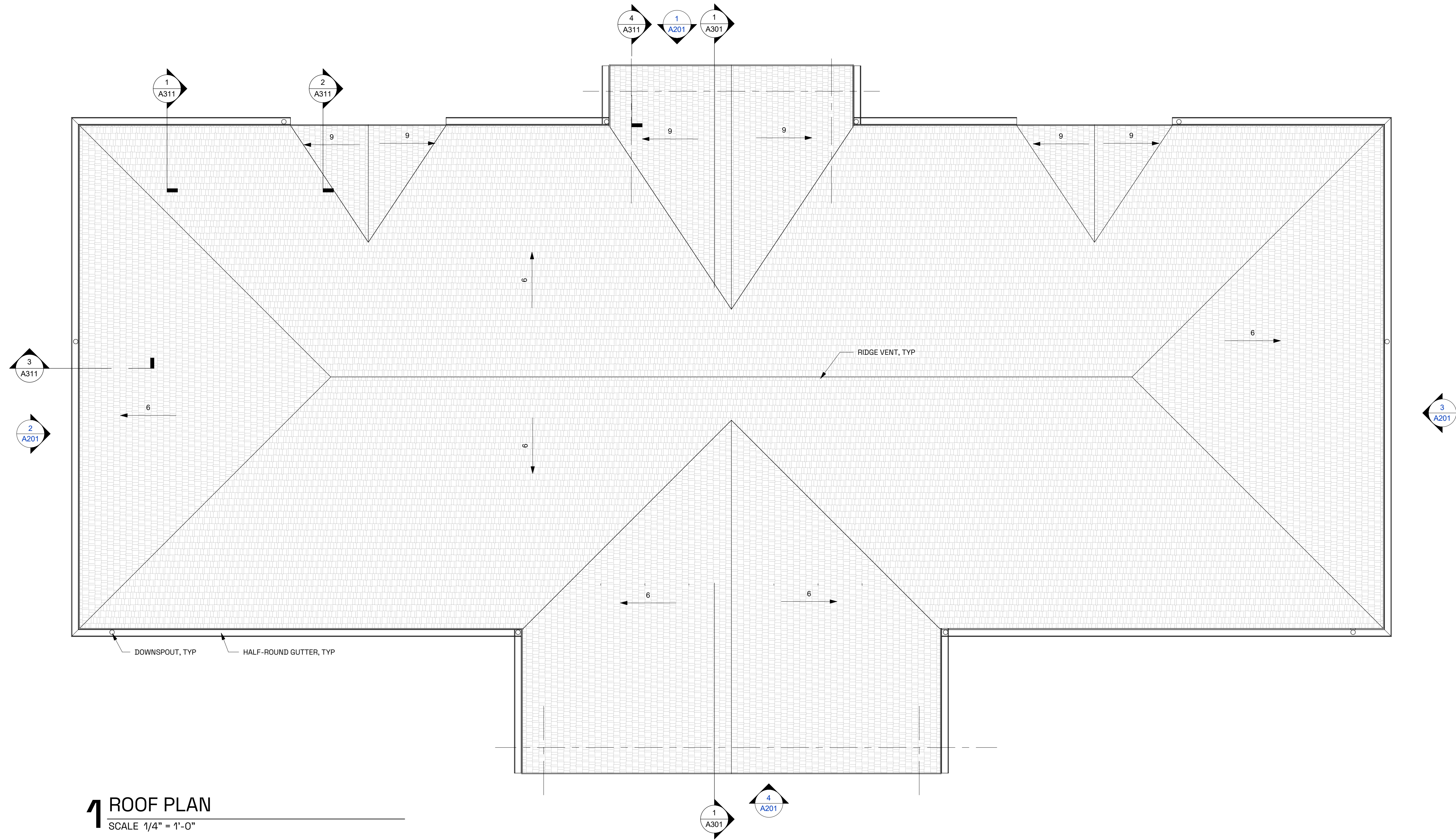
ACCESSIBLE HOUSING

ONE FOLK SCHOOL RD
BRASSTOWN, NC 28902
JOB NO: 26162

ROOF PLAN

A131

08.26.26



1 ROOF PLAN

SCALE 1/4" = 1'-0"

ROOF GENERAL NOTES

- A. COORD. ROOFING WORK WITH LANDLORD'S REQ'D MANUF. TO MAINTAIN EXIST. WARRANTY.

Downspout & Gutter Sizing Report

Project	Report
Project Name: ACCESSIBLE HOUSING	
Rainfall Intensity (in/hr): 0.652 Rainfall intensity manually entered by user	
Roof Rainfall Design Area (in ²): 4,261.00 *Area of Largest Roof Serving a Single Gutter System Design Area manually entered by user	
Gutter in Lineal Ft: 228 *Length of Largest Roof Serving a Single Gutter System	
Gutter Length Serving Single DS (ft.): 46 *Assumption: downspouts are equally spaced **Maximum gutter length to be served by a downspout is 50ft per SMACNA/ASMM	
M (depth to width ratio): 0.50	
Sloped Gutters: Level	
*Per Table 1-4 on page 1.6 of SMACNA/ASMM **Half Round Sized Only - capacity of a sloped rectangular gutter may be approximated by using a gutter cross section area not less than that of a semicircular gutter and a depth to width ratio of at least 0.75.	
Min. Gutter Width (in.): 3 Half Round	
Min. Gutter Depth (in.): 1.5	
# of Downspouts: 5 Plain Round	Additional Downspouts: 0 *to reduce size of gutter and downspouts additional downspouts can be added
Min. Area per DS (sq): 0.41	
Min. DS Size (in): 3 *Per Table 1-3 on page 1.4 of SMACNA/ASMM	

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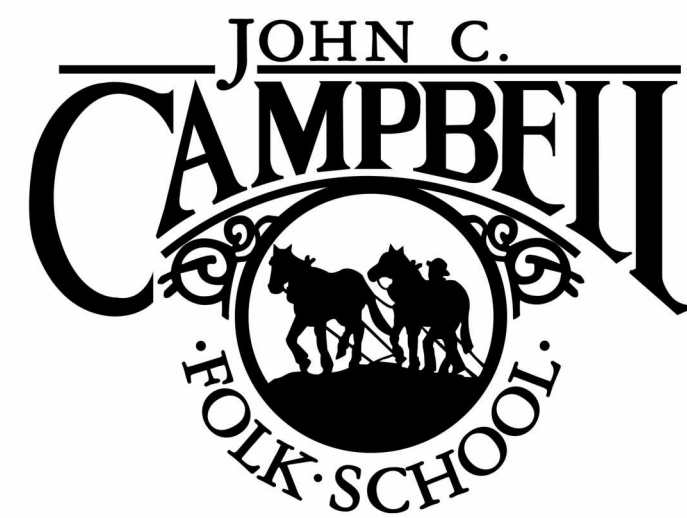
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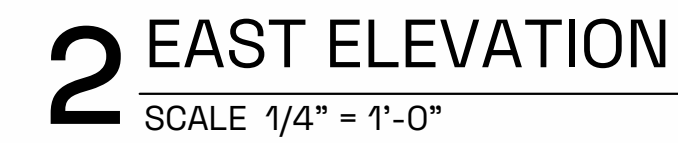
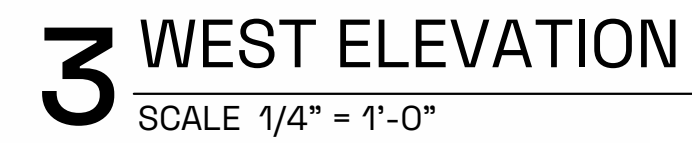
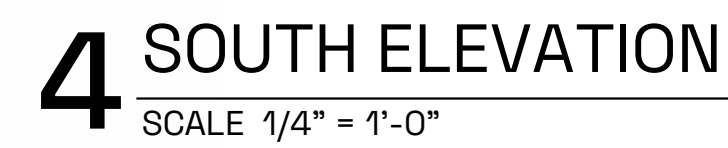


OWNER

ONE FOLK SCHOOL RD
BRASSTOWN, NC 28902
JOB NO: 26162

A201

08.26.26



- A. NUMBER INDICATED ON TRIM IS THE NOMINAL WIDTH
- B. REFER TO MATERIAL LEGEND FOR FINISHES
- C. TRIM SHALL BE SOLID WOOD 5/4

SHAKES
PT-03
WESTERN RED CEDAR
GRADE C OR BETTER

CLAPBOARDS
PT-04
WESTERN RED CEDAR
GRADE C OR BETTER

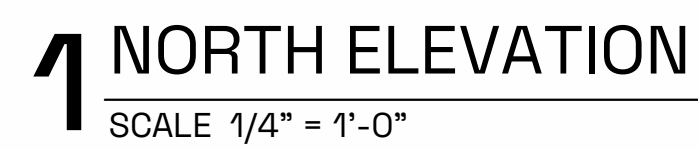
THIN STONE SYSTEM
REFER TO SPECIFICATION

ARCHITECTURAL SHINGLES
REFER TO SPECIFICATION

TRIM OVER STRUCTURAL LUMBER
CLEAR SPAR URETHANE
WESTERN RED CEDAR
GRADE A CLEAR

NOMINAL TRIM WIDTH
PT-05
WESTERN RED CEDAR
GRADE C OR BETTER

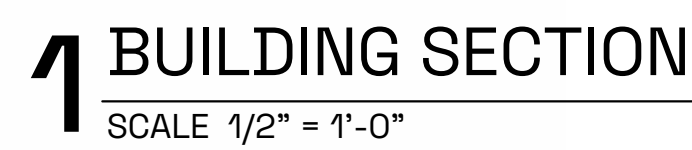
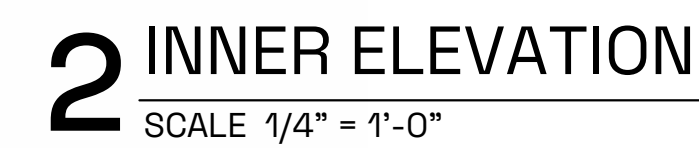
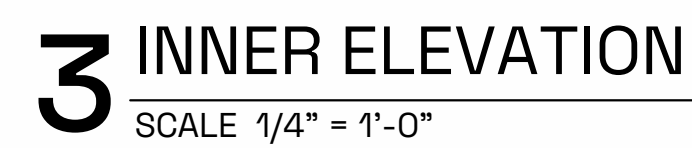
REFER TO DETAILS FOR
ADDITIONAL ITEMS



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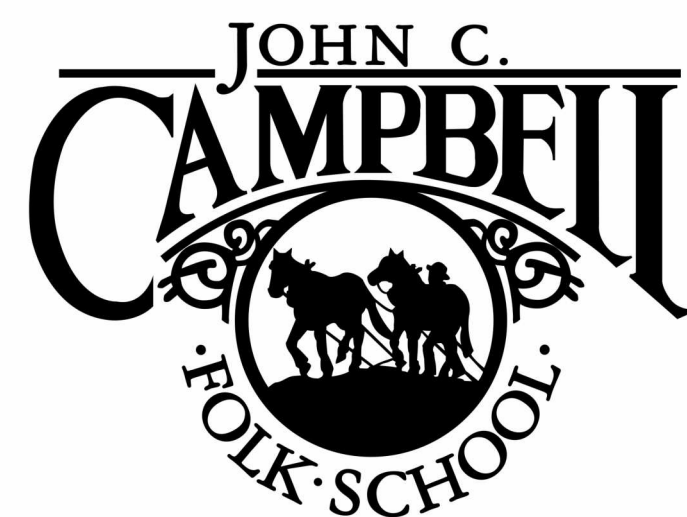
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31	10/31/20	...



REVIEW

ACCESSIBLE HOUSING

PROJECT INFO: ONE FOLK SCHOOL RD
BRASSTOWN, NC 28902
JOB NO: 26162

BUILDING SECTION & ELEVATIONS

A301

DRAWING INFORMATION

08.26.26

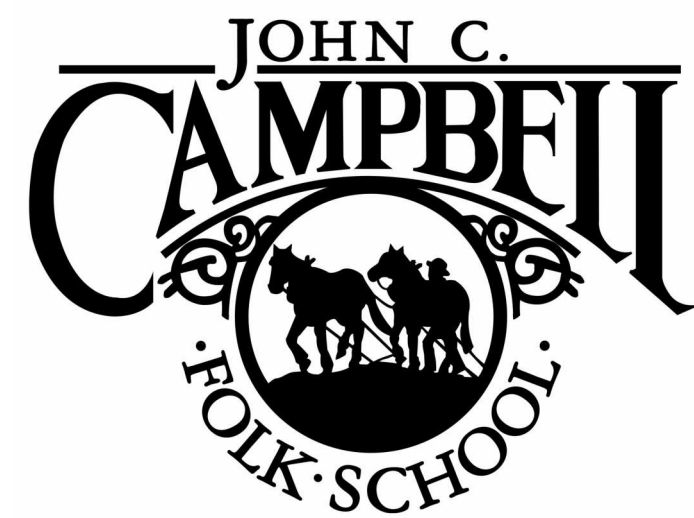
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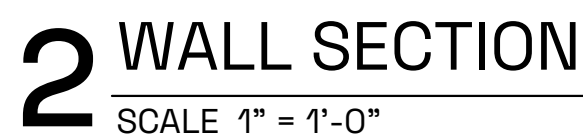
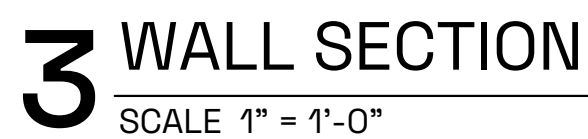


WINNER

ONE FOLK SCHOOL RD
BRASSTOWN, NC 28902
JOB NO: 26162

A311

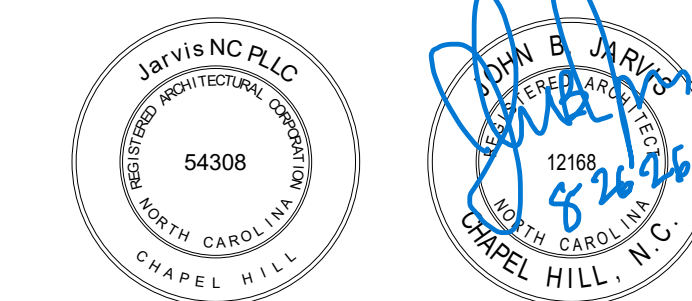
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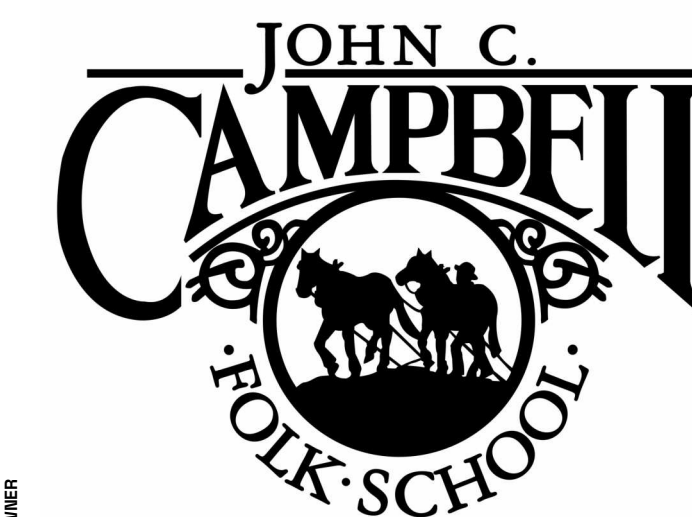
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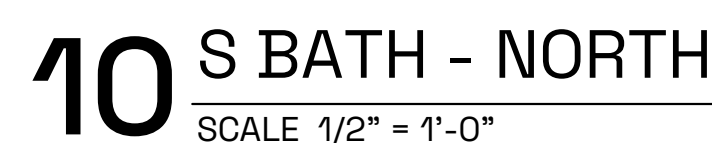
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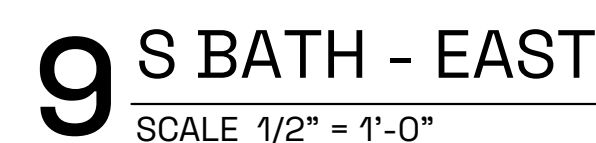
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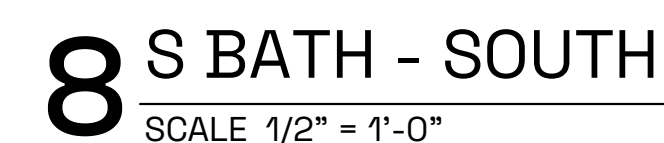
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NOTE:
REFER TO MOUNTING HEIGHTS FOR ADDITIONAL DETAILS



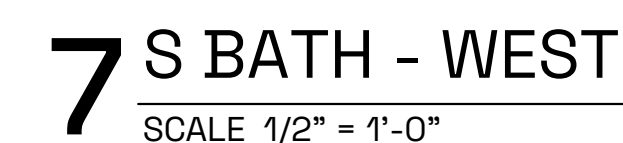
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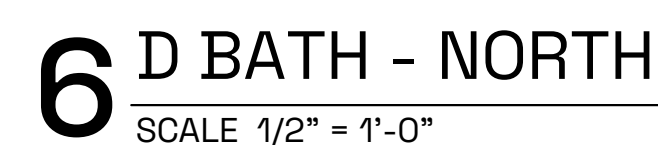
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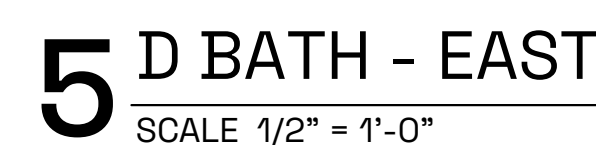
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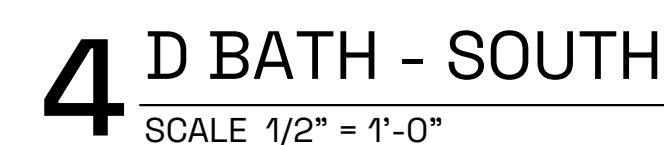
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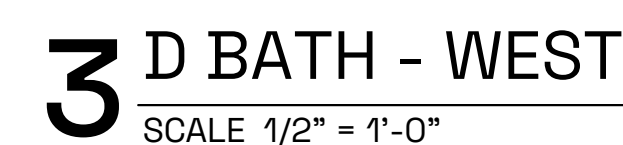
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NOTE:
REFER TO MOUNTING HEIGHTS FOR ADDITIONAL DETAILS



SCALE 1/2" = 1'-0"

NOTE:
REFER TO MOUNTING HEIGHTS FOR ADDITIONAL DETAILS



SCALE 1/2" = 1'-0"

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



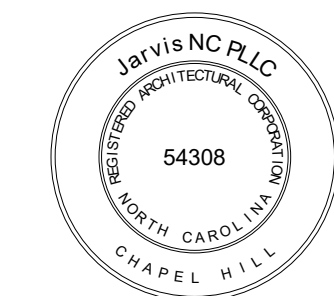
SCALE 1/2" = 1'-0"

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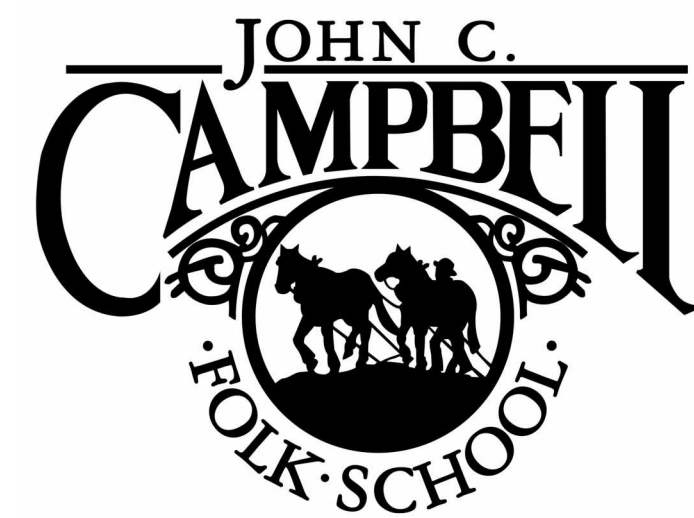
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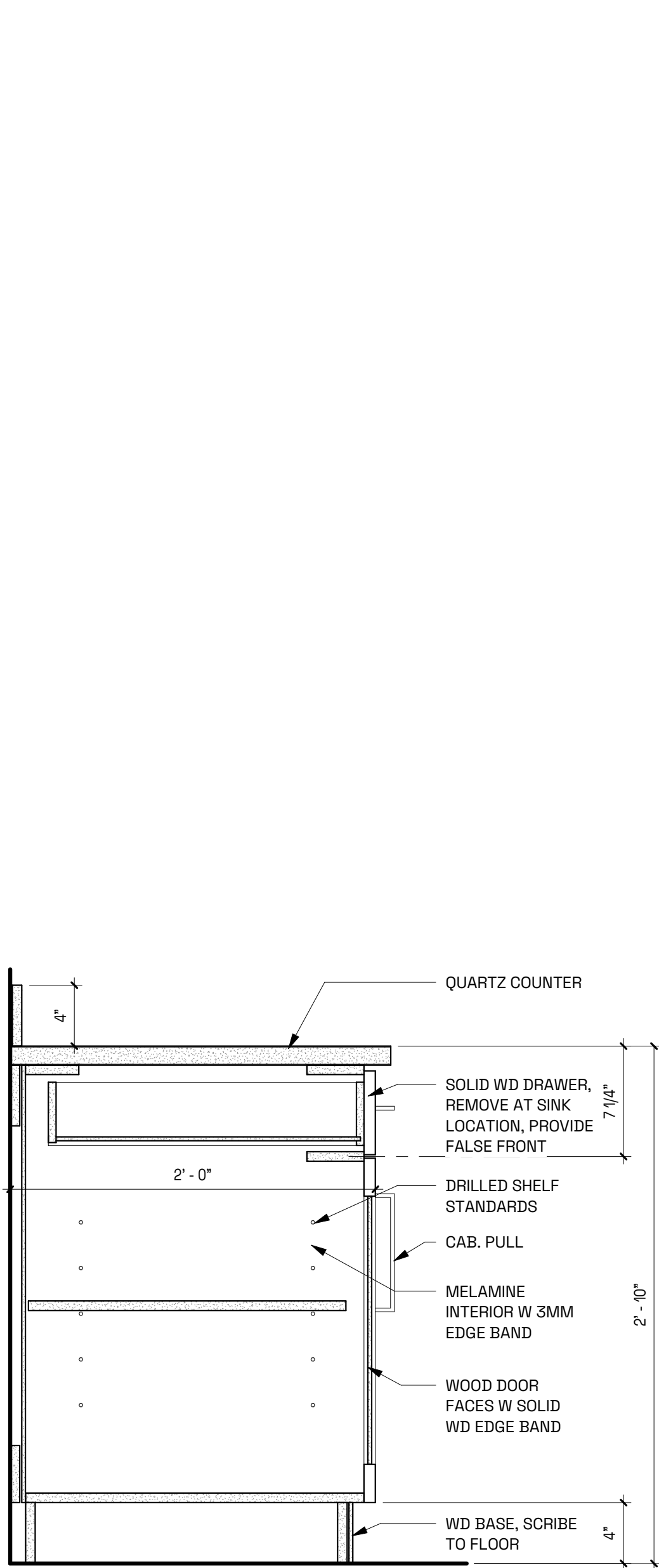
ACCESSIBLE HOUSING

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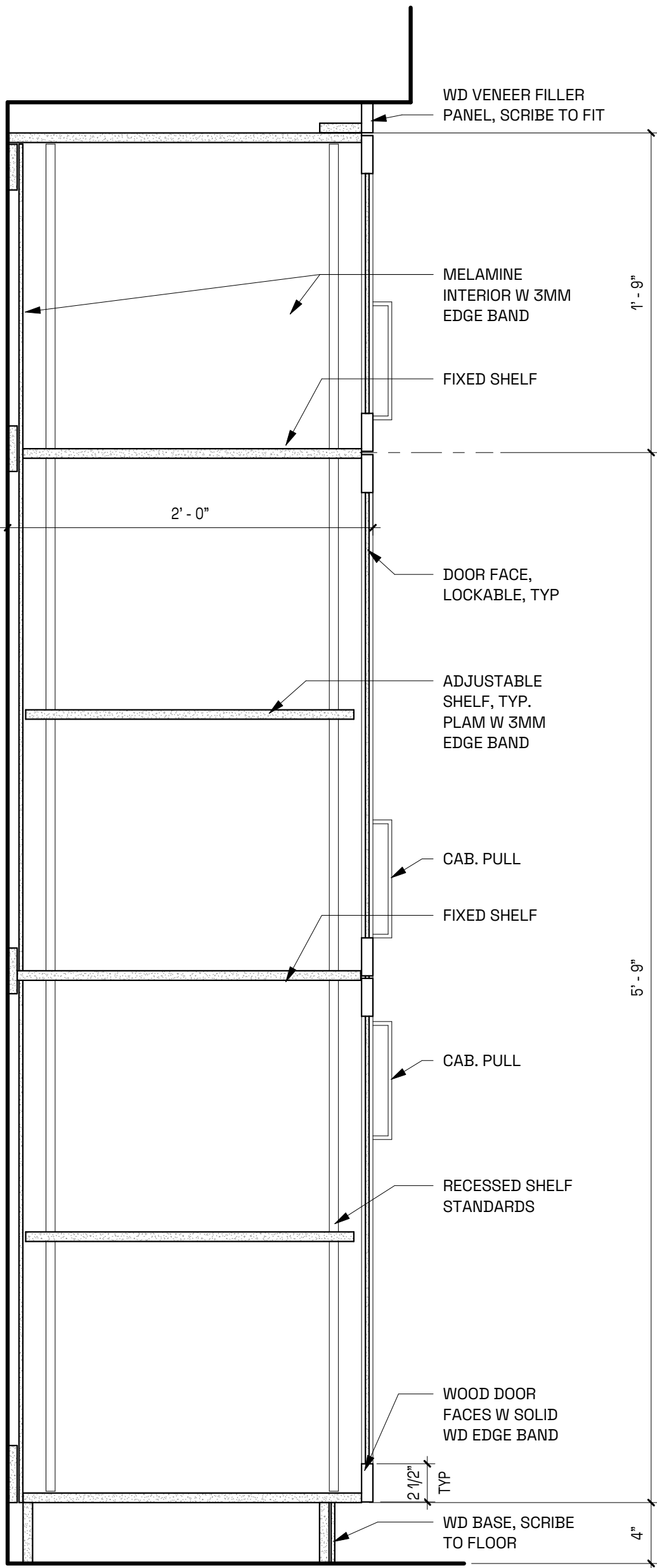
CASEWORK ELEV. & SECTIONS

A501

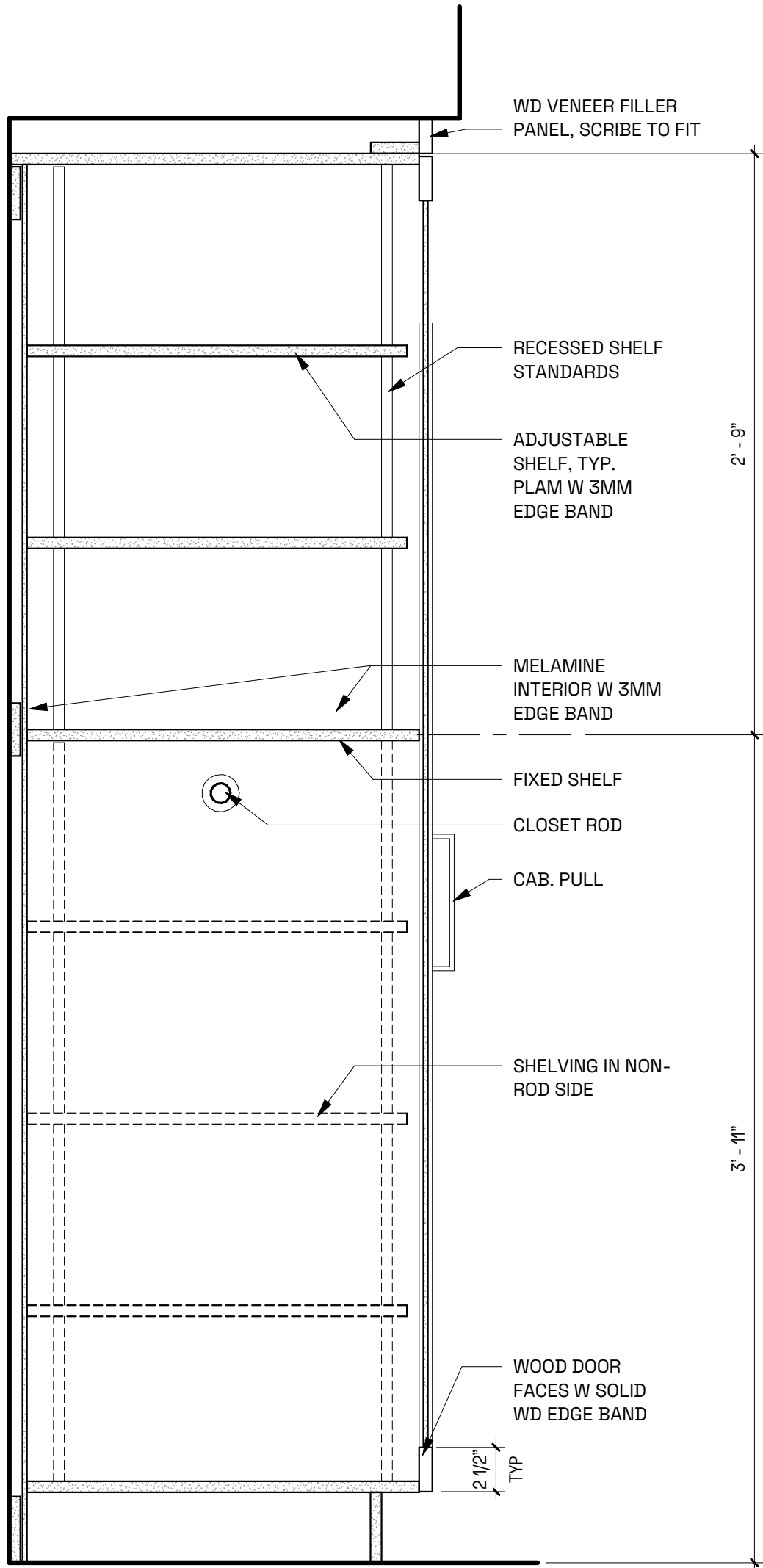
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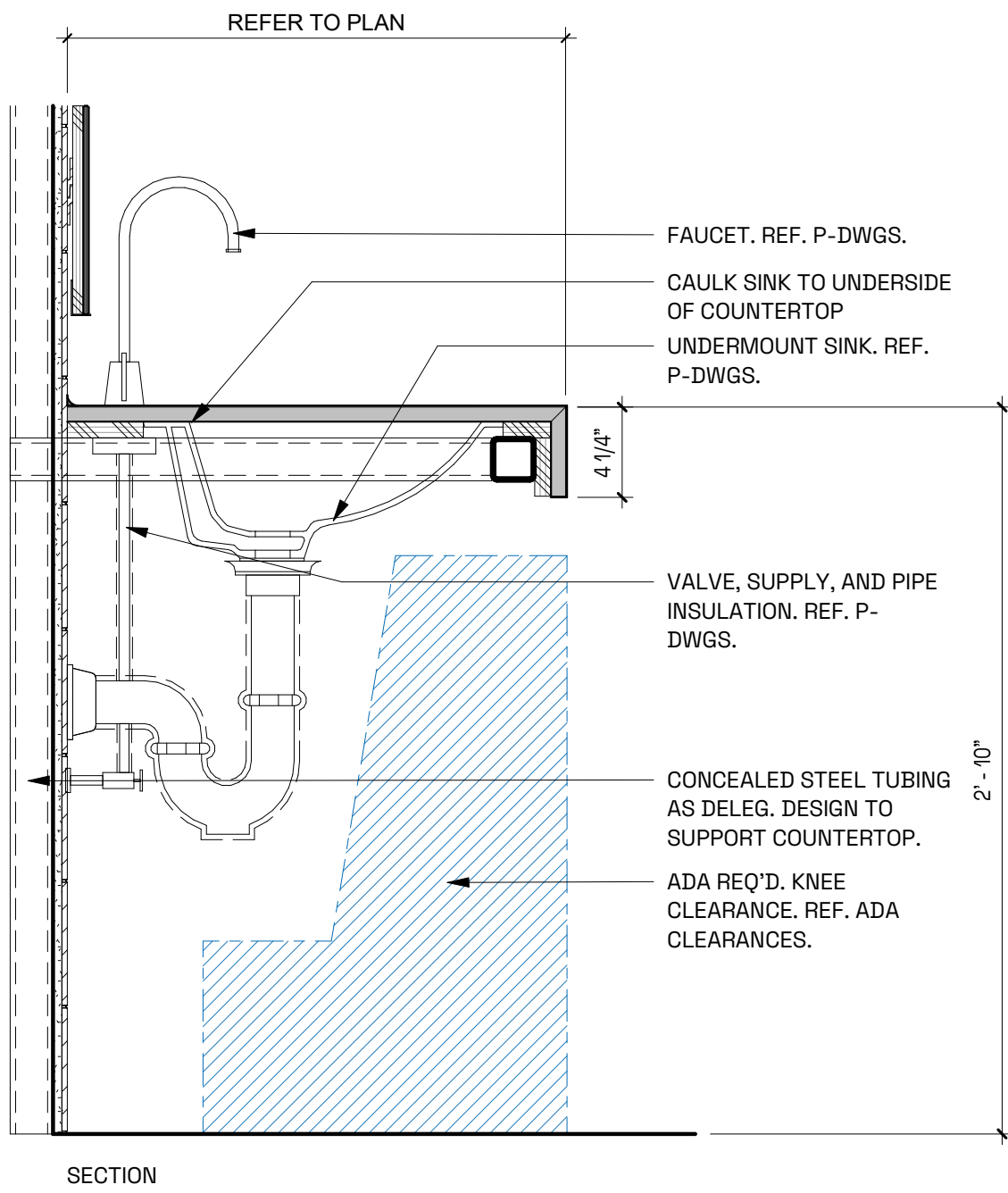
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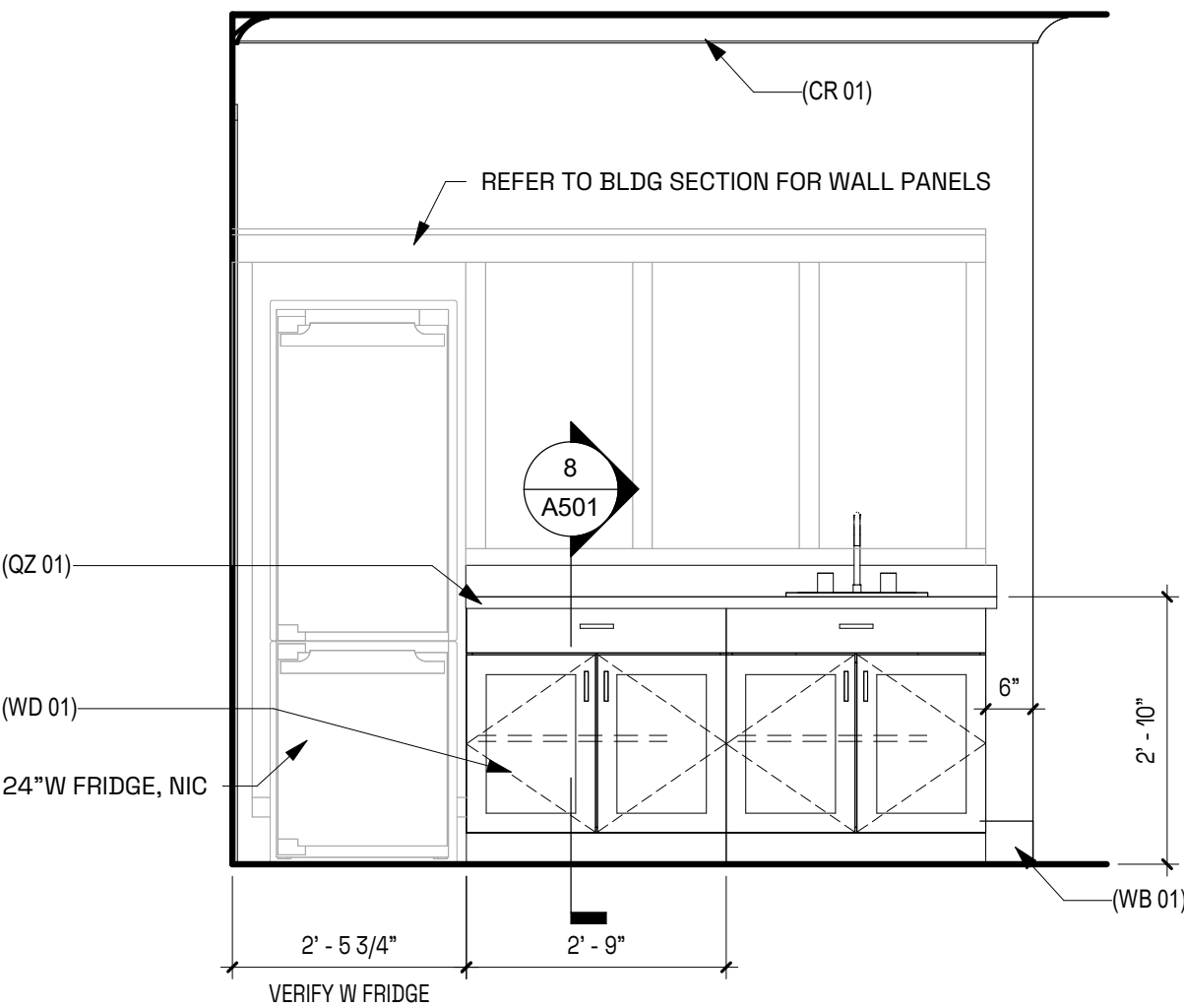
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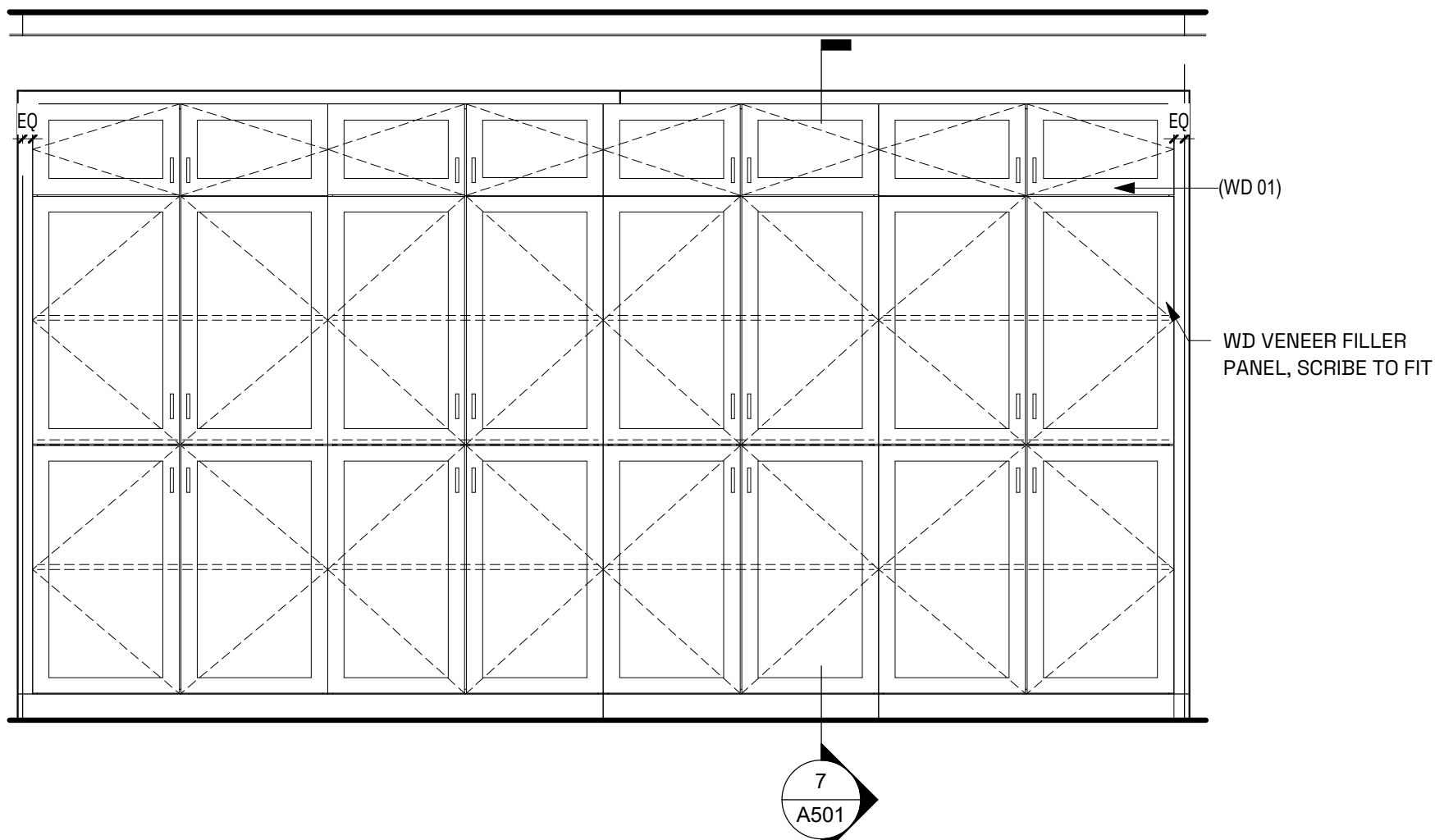
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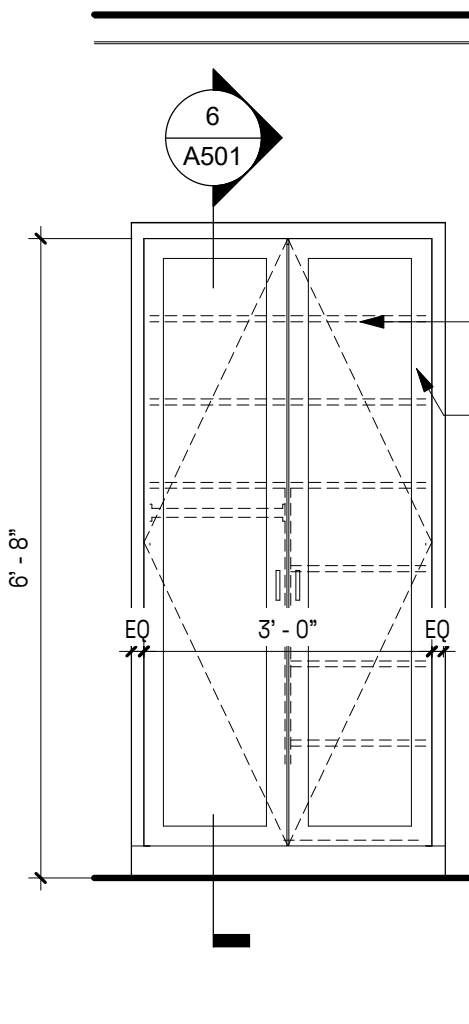
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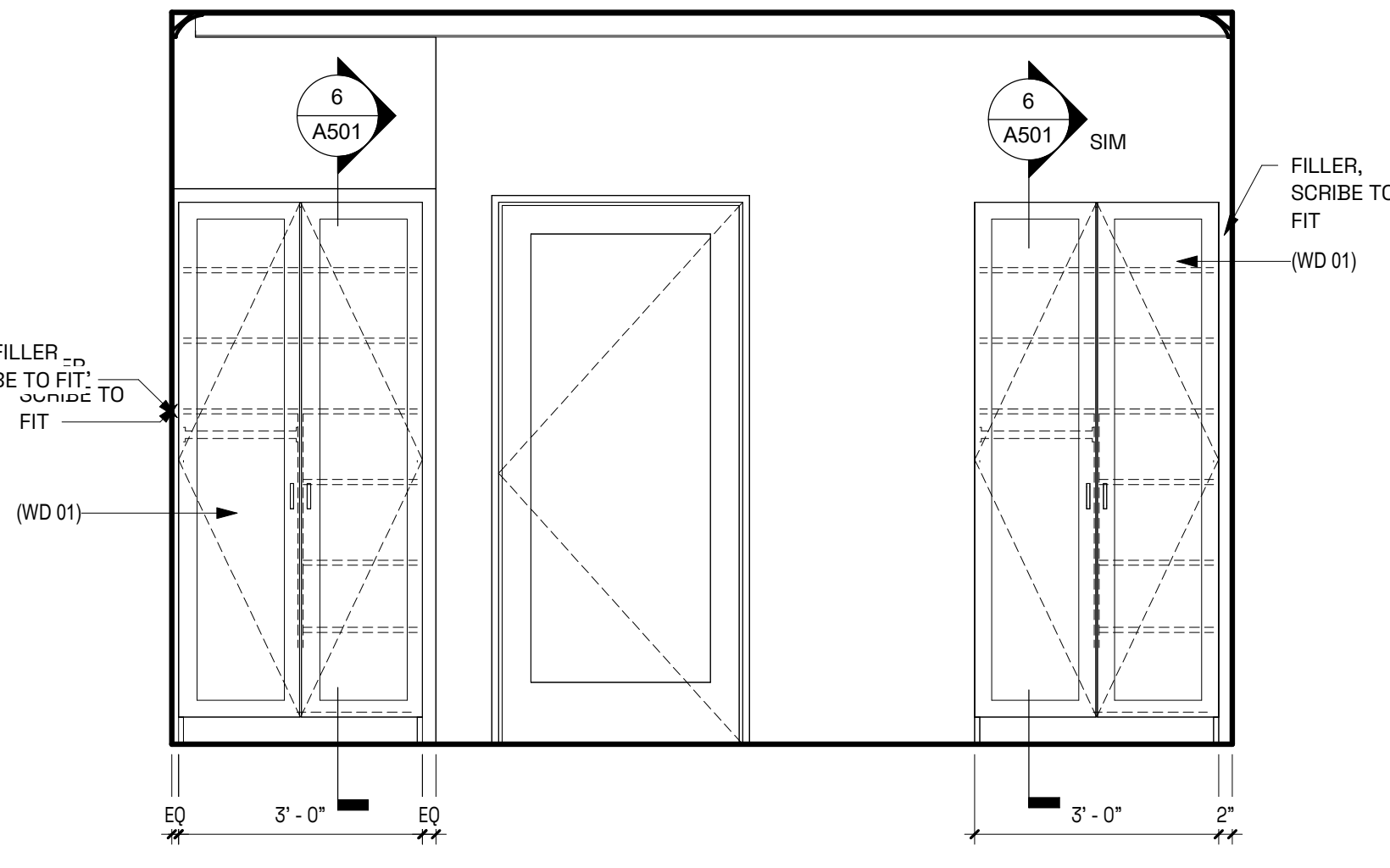
4 ENTRY CASEWORK
SCALE 1/2" = 1'-0"



3 HALL CASEWORK
SCALE 1/2" = 1'-0"



2 SINGLE CASEWORK
SCALE 1/2" = 1'-0"



1 DOUBLE CASEWORK
SCALE 1/2" = 1'-0"

- C. REPLACE DAMAGED DECK WITH NEW MATERIALS.
- D. VERIFY INSTALLED ROOF DECK IS ACCEPTABLE TO RECEIVE SHINGLES. ACCEPTABLE ROOF DECKS INCLUDE THE FOLLOWING:
- PLYWOOD SHEATHING: 3/8 IN (9.5 MM) MINIMUM THICKNESS EXPOSURE
 - GRADE PLYWOOD SHEATHING AS RECOMMENDED BY APA AND IN COMPLIANCE WITH LOCAL BUILDING CODE REQUIREMENTS.
 - OSB PANELS: 7/16 IN (11.1 MM) MINIMUM THICKNESS NON-VENEER STRUCTURAL PANELS AS RECOMMENDED BY APA AND IN COMPLIANCE WITH LOCAL BUILDING CODE REQUIREMENTS.
 - SPACING BETWEEN BOARDS OR PANELS SHALL NOT EXCEED 1/4 IN (6.4 MM) BETWEEN ROOF BOARDS OR 1/8 IN (3.2 MM) BETWEEN PLYWOOD OR OSB SHEATHING PANELS.

3.3 UNDERLAYMENT INSTALLATION

- A. INSTALL OWENS CORNING™ UNDERLAYMENTS USING OWENS CORNING, INSTALLATION INSTRUCTIONS AND IN ACCORDANCE WITH LOCAL BUILDING CODE REQUIREMENTS. WHEN LOCAL CODES AND INSTALLATION INSTRUCTIONS ARE IN CONFLICT, THE LOCAL BUILDING CODE REQUIREMENTS SHALL TAKE PRECEDENCE.
- IN AREAS WHERE ICE DAMMING IS LIKELY TO OCCUR, INSTALL SELF-ADHERING ICE AND WATER BARRIER FROM THE EAVES EDGE OF ROOF UP THE SLOPE NOT LESS THAN 24 IN (610 MM), MEASURED HORIZONTALLY.
 - BEYOND THE INTERIOR EDGE OF THE EXTERIOR WALL. LAP ENDS 6 IN (152 MM) ON ROOF DECKS SLOPED 5:12 AND GREATER. ON ROOFS WITH SLOPES FROM 2:12 UP TO 4:12, SEE APPLICATION INSTRUCTIONS PRINTED ON EACH PACKAGE.
- B. DRIP EDGE
- DRIP EDGE SHALL BE INSTALLED ON ALL ROOF EDGES.
 - INSTALL DRIP EDGE ON EAVES FIRST WITH UNDERLAYMENT INSTALLED OVER THE DRIP EDGE, OR PER LOCAL CODE REQUIREMENTS.
 - INSTALL DRIP EDGE ON RAKES AFTER UNDERLAYMENT IS INSTALLED, WITH THE DRIP EDGE FASTENED OVER THE UNDERLAYMENT.
 - JOINTS IN DRIP EDGE SHALL BE LAPPED MINIMUM 2 IN (51 MM) WITH THE UPSLOPE PIECE LAPPED OVER THE DOWN SLOPE PIECE, OR PER LOCAL BUILDING CODE REQUIREMENTS
 - INSTALL FASTENERS 8 IN TO 10 IN (203 MM TO 254 M) ON CENTER, APPROXIMATELY 1-3/4 IN (44 MM) TO 3 IN (76 MM) FROM THE OUTSIDE EDGE OF THE DRIP EDGE, OR PER LOCAL BUILDING CODE REQUIREMENTS.

- C. ROOF DECK
- ON ROOFS WITH PITCH BETWEEN 2:12 TO LESS THAN 4:12, SEE APPLICATION INSTRUCTIONS PRINTED ON EACH SHINGLE WRAPPER, OR FOLLOW LOCAL CODE REQUIREMENTS.
- D. PENETRATIONS
- VENT PIPES: INSTALL A 24 IN (610 MM) SQUARE PIECE OF SELF-ADHERING ICE AND WATER BARRIER LAPPING OVER ROOF DECK UNDERLAYMENT; SEAL TIGHTLY TO PIPE.

3.4 SHINGLE INSTALLATION

- A. INSTALL OWENS CORNING™ SHINGLES (INCLUDING STARTED SHINGLES AS WELL AS HIP AND RIDGE SHINGLES) IN ACCORDANCE WITH OWENS CORNING INSTALLATION INSTRUCTIONS AND IN ACCORDANCE WITH LOCAL BUILDING CODE REQUIREMENTS.
- B. INSTALL STARTER COURSE AT LOWEST ROOF EDGE AND ALONG RAKE WITH EDGE OF SHINGLES EXTENDING 1/4 IN (6.4 MM) OVER EDGE OF ROOF. SEALANT STRIP SHOULD BE CLOSEST TO ROOF EDGE.
- C. INSTALL FIRST AND SUCCESSIVE COURSES OF SHINGLES STEPPING DIAGONALLY UP AND ACROSS ROOF DECK WITH OWENS CORNING RECOMMENDED OFFSET AT EACH SUCCEEDING COURSE. MAINTAIN UNIFORM EXPOSURE OF SHINGLES AT EACH SUCCEEDING COURSE. USE OF A CHALK LINE EVERY OTHER COURSE IS RECOMMENDED.
- D. FASTEN SHINGLES TO DECK WITH NUMBER OF ROOFING NAILS PER SHINGLE AND TYPE OF NAILS SPECIFIED BY OWENS CORNING, OR IN ACCORDANCE SPECIFIED BY LOCAL AUTHORITY HAVING JURISDICTION.
- E. ALL FASTENERS MUST BE DRIVEN FLUSH WITH THE SHINGLE SURFACE AND PENETRATE AT LEAST 3/4 IN (19.1 MM) INTO THE WOOD DECK. WHERE THE DECK IS LESS THAN 3/4 IN (19.1 MM) THICK, THE FASTENER SHOULD BE LONG ENOUGH TO PENETRATE FULLY AND EXTEND THROUGH THE ROOF SHEATHING.
- F. INSTALL OWENS CORNING SHINGLES AT VALLEYS, EAVES, RAKES, HIPS AND RIDGES IN ACCORDANCE WITH OWENS CORNING INSTALLATION INSTRUCTIONS AND LOCAL BUILDING CODE REQUIREMENTS.

3.5 VENT INSTALLATION

- A. INSTALL OWENS CORNING™ VENTS IN ACCORDANCE WITH OWENS CORNING INSTALLATION INSTRUCTIONS AND LOCAL BUILDING CODE REQUIREMENTS.
- B. VENTILATION AT MINIMUM MUST MEET OR EXCEED LOCAL BUILDING CODE REQUIREMENTS. OWENS CORNING RECOMMENDS:
- NET FREE VENTILATING AREA (NFVA) OF 1:150 AS A MINIMUM.
 - BALANCED APPROACH FOR MOST EFFECTIVE VENTILATION (BALANCE BETWEEN THE LOWER AND UPPER PARTS OF THE ROOF BY PROVIDING 50% OF NFVA AT THE SOFFIT AND 50% AT THE RIDGE).
 - NFVA AT THE UPPER PART OF THE ROOF SHOULD NOT EXCEED 50%.
 - WHERE LENGTH OF THE ROOF RIDGE IS SUFFICIENT PROVIDE CONTINUOUS RIDGE VENTS FOR MOST EFFECTIVE VENTILATION APPROACH.

3.6 PROTECTION

- A. PROTECT INSTALLED PRODUCTS UNTIL COMPLETION OF PROJECT.
- B. TOUCH-UP, REPAIR OR REPLACE DAMAGED PRODUCTS BEFORE SUBSTANTIAL COMPLETION.

END OF SECTION

SECTION 08 14 23 – CLAD WOOD DOORS

PART 1 GENERAL

- 1.1 SUMMARY
- A. SECTION INCLUDES: WOOD-FRAMED ALUMINUM-CLAD HINGED PATIO DOORS WITH SIDELIGHTS.
- 1.4 PERFORMANCE REQUIREMENTS
- COMPLY WITH REQUIREMENTS OF NAFS.

1.5 SUBMITTALS

- A. PRODUCT DATA: FOR EACH TYPE OF PRODUCT REQUIRED.
- B. SHOP DRAWINGS: SHOWING METHODS OF INSTALLATION, PLANS, SECTIONS, ELEVATIONS AND DETAILS OF WALLS, SPECIFIED LOADS, FLASHINGS, VENTS, SEALANTS, AND INTERFACES WITH ALL MATERIALS NOT SUPPLIED BY THE PATIO DOOR MANUFACTURER, AND IDENTIFICATION OF PROPOSED COMPONENT PARTS AND FINISHES.
- C. SAMPLES: SELECTION AND VERIFICATION SAMPLES FOR FINISHES, COLORS AND TEXTURES. SUBMIT TWO COMPLETE SAMPLE SETS OF EACH TYPE OF MATERIAL REQUIRED.
- D. TEST AND EVALUATION REPORTS: SHOWING COMPLIANCE WITH SPECIFIED PERFORMANCE CHARACTERISTICS AND PHYSICAL PROPERTIES.

1.6 QUALITY ASSURANCE

- A. MANUFACTURER QUALIFICATIONS:
- MEMBER IN GOOD STANDING OF THE INSULATING GLASS CERTIFICATION COUNCIL (IGCC).
 - HALLMARK CERTIFIED MANUFACTURER AND MEMBER IN GOOD STANDING OF THE WINDOW AND DOOR MANUFACTURERS ASSOCIATION (WDMA).
 - CAPABLE OF DEMONSTRATING AN EXTENDED HISTORY OF WINDOW AND DOOR DESIGN, PRODUCTION AND INNOVATION.

1.7 DELIVERY, STORAGE AND HANDLING

- A. COMPLY WITH MANUFACTURER'S ORDERING INSTRUCTIONS AND LEAD TIME REQUIREMENTS TO AVOID CONSTRUCTION DELAYS.
- B. DELIVER MATERIALS TO PROJECT IN MANUFACTURER'S ORIGINAL UNOPENED, UNDAMAGED CONTAINERS WITH IDENTIFICATION LABELS INTACT.
- C. STORAGE AND PROTECTION: STORE MATERIALS AND ACCESSORIES PROTECTED FROM EXPOSURE TO HARMFUL ENVIRONMENTAL CONDITIONS AND AT TEMPERATURE AND HUMIDITY CONDITIONS RECOMMENDED BY MANUFACTURER OFF GROUND, UNDER COVER AND NOT EXPOSED TO WEATHER AND CONSTRUCTION ACTIVITIES.

1.8 WARRANTY

- A. SPECIAL WARRANTY: MANUFACTURER'S TRANSFERRABLE, NON-PRORATED LIMITED WARRANTY.
- WARRANTY PERIOD, GLASS: 20 YEARS.
 - WARRANTY PERIOD, NON-GLASS PARTS: 10 YEARS.

PART 2 PRODUCTS

2.1 CLAD WOOD DOORS

- A. GENERAL: PROVIDE WOOD DOORS COMPLYING WITH THE PERFORMANCE REQUIREMENTS INDICATED AND TESTED ACCORDING TO NAFS.
- B. BASIS-OF-DESIGN PRODUCT: SUBJECT TO COMPLIANCE WITH REQUIREMENTS PROVIDE ANDERSEN CORPORATION: ANDERSEN E-SERIES PATIO DOORS OR ARCHITECT APPROVED EQUAL.

2.2 MATERIALS

- A. CONSTRUCTION:
- CLADDING: EXTRUDED ALUMINUM, MINIMUM THICKNESS 0.050 INCH (1.27 MM).
 - STILES AND RAILS: PRESERVATIVE TREATED (WDMA I.S.4) LAMINATED VENEER LUMBER (LVL) WITH WOOD VENEER, KILN DRIED AND SUITABLE FOR STAIN OR PAINTED FINISH ON INTERIOR.
 - INTERIOR EXPOSED FRAME: PRESERVATIVE TREATED (WDMA I.S.4) LUMBER, KILN DRIED AND SUITABLE FOR STAIN OR PAINTED FINISH.
- B. WOOD SPECIES: PINE.
- C. INTERIOR FINISH:
- PAINTED: FACTORY-APPLIED BEFORE ASSEMBLY, WHITE
- D. EXTERIOR FINISH:
- PAINTED FRAME: FACTORY-APPLIED BAKED-ON SILICONE POLYESTER ENAMEL, IN COMPLIANCE WITH AAMA 2604, COLOR AS SELECTED FROM MANUFACTURER'S STANDARD COLORS OF NO LESS THAN 50 OPTIONS
 - PAINTED PANEL: FACTORY-APPLIED BAKED-ON SILICONE POLYESTER ENAMEL, IN COMPLIANCE WITH AAMA 260, COLOR AS SELECTED FROM MANUFACTURER'S STANDARD COLORS OF NO LESS THAN 50 OPTIONS

2.3 HINGED PATIO DOORS.

- A. PATIO DOOR TYPE AND PERFORMANCE REQUIREMENTS: HINGED PATIO DOOR WITH SIDELIGHTS
- OUTSWING COMMERCIAL DOUBLE-PANEL HINGED PATIO DOOR, PERFORMANCE CLASS AND GRADE, NON-IMPACT-RESISTANT: LC-PG50 LW (78 X 94 INCHES)
- B. HINGED PATIO DOOR WEATHERSTRIP TYPE AND MATERIAL:
- FRAME: URETHANE FOAM WITH Q-LON SKIN.
 - PANEL: URETHANE FOAM Q-LON SKIN.
- C. INSTALLATION FLANGE: EXTRUDED ALUMINUM
- D. RAIL AND STILE PROFILE:
- FRENCH: 12" BOTTOM RAIL.
- E. HARDWARE:
- HINGED PATIO DOOR ESCUTCHEON FINISH: MATCH HANDLE.
 - PATIO DOOR HINGE TYPE AND FINISH: HEAVY-DUTY, COMMERCIAL GRADE, FINISH TO MATCH DOOR HANDLE.
- F. DIVIDED LIGHTS:
- SIMULATED DIVIDED LIGHT: PERMANENT EXTERIOR AND INTERIOR ATTACHMENT, NO SPACER BETWEEN GLASS PANES
 - STYLE: OVOLO
 - A. WIDTH: 5/8 INCH (16MM).
 - B. PATTERN: AS SHOWN IN DRAWINGS.
 - C. EXTERIOR COLOR: MATCH PATIO DOOR.
 - D. INTERIOR FINISH: MATCH PATIO DOOR.
- G. SILLS:
- TYPE, JAMB DEPTH AND COLOR: OUTSWING, LOW-THRESHOLD (ADA-COMPLIANT), 6-9/16 INCHES, ALUMINUM WITH POLYURETHANE THERMAL BARRIER, WITH DARK BRONZE ANODIZED FINISH.
- H. EXTERIOR TRIM AND ACCESSORIES:
- TYPE: 5-1/2 INCH FLAT CASING
 - MATERIAL: FACTORY-APPLIED EXTRUDED ALUMINUM WITH CORNER KEYS.
 - FINISH AND COLOR: MATCH DOORS

2.4 NON-IMPACT-RESISTANT GLAZING

- A. THERMAL TRANSMISSION (U-FACTOR), NFRC 100:
- OUTSWING: 0.31 WITH GRILLES
- B. SOLAR HEAT GAIN COEFFICIENT (SHGC), NFRC 200:
- OUTSWING: 0.14 WITH GRILLES
- C. VISIBLE LIGHT TRANSMITTANCE (VLT), NFRC 200:
- OUTSWING: 0.27 WITH GRILLES
- D. GLASS UNITS: PROVIDE INSULATING GLASS UNITS CERTIFIED THROUGH INSULATING GLASS CERTIFICATION COUNCIL AS CONFORMING TO THE REQUIREMENTS OF IGCC AND ASTM E2190
- GLAZING CONFIGURATION: DUAL-PANE.
 - TINT: NONE
 - SEAL AND SPACER TYPE: DUAL SEALED INSULATING GLASS UNITS WITH POLYISOBUTYLENE PRIMARY SEAL, SILICONE SECONDARY SEAL AND STAINLESS STEEL SPACERS.
 - GLASS SPACER COLOR: BLACK
 - GLASS TYPE: FULLY TEMPERED GLASS, ASTM C1048.

PART 3 EXECUTION

3.1 EXAMINATION

- A. VERIFY THAT ALL SUBSTRATE CONDITIONS ARE SUITABLE FOR INSTALLATION IN COMPLIANCE WITH MANUFACTURER'S RECOMMENDATIONS.
- B. DO NOT BEGIN INSTALLATION UNTIL SUBSTRATES HAVE BEEN PROPERLY PREPARED AND ANY CONDITIONS NOT IN COMPLIANCE WITH MANUFACTURER'S RECOMMENDATIONS HAVE BEEN CORRECTED.

3.2 INSTALLATION

- A. GENERAL: COMPLY WITH MANUFACTURER'S PRODUCT RECOMMENDATIONS, INCLUDING BUT NOT LIMITED TO THE ANDERSEN UNIT INSTALLATION GUIDE, INSTALLATION INFORMATION IN PRODUCT LITERATURE AND ON PRODUCT PACKAGING. COMPLY WITH DRAWINGS AND SHOP DRAWINGS FOR INSTALLING PATIO DOORS, HARDWARE, ACCESSORIES, AND OTHER COMPONENTS.
- B. INSTALL PATIO DOORS PLUMB, LEVEL AND SQUARE. ANCHOR PATIO DOORS SECURELY TO STRUCTURE IN CORRECT ORIENTATION TO FLASHING AND ADJACENT CONSTRUCTION AS INDICATED. COMPLY WITH PRODUCT INSTALLATION INSTRUCTIONS FOR PROPER FLASHING INTEGRATION INTO WALL SYSTEM. INSTALL PATIO DOORS SO AS TO DRAIN WATER PENETRATION TO THE EXTERIOR.
- C. ADJUST SLIDING PATIO DOOR, INSECT SCREENS, HARDWARE AND ACCESSORIES AS APPLICABLE FOR CORRECT FIT. ADJUST WEATHERSTRIP FOR SMOOTH OPERATION AND WEATHER-TIGHT CLOSURE.

3.3 FIELD QUALITY CONTROL

- A. MANUFACTURER'S FIELD SERVICES: IF REQUESTED BY OWNER, PROVIDE MANUFACTURER'S FIELD SERVICE CONSISTING OF PRODUCT USE RECOMMENDATIONS AND PERIODIC SITE VISITS FOR OBSERVATION OF PRODUCT INSTALLATION IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

3.4 CLEANING

- A. REFER TO MANUFACTURER FOR GUIDANCE ON TIMING FOR WHEN BEST TO REMOVE PROTECTIVE FILMS AND PERMANENT LABELS AFTER INSTALLATION.
- B. REMOVE EXCESS SEALANT, SOILING, DIRT AND OTHER SUBSTANCES. CLEAN PATIO DOOR FRAME AND GLASS SURFACES. AVOID DAMAGING COATINGS AND FINISHES.
- C. TOUCH-UP, REPAIR OR REPLACE GLASS OR OTHER PATIO DOOR COMPONENTS BROKEN, SCRATCHED OR DAMAGED DURING CONSTRUCTION PRIOR TO SUBSTANTIAL COMPLETION.
- D. REMOVE AND LAWFULLY DISPOSE OF CONSTRUCTION DEBRIS FROM PROJECT SITE.

3.5 PROTECTION

- A. PROTECT INSTALLED PATIO DOORS AND FINISH SURFACES FROM DAMAGE DURING CONSTRUCTION UNTIL COMPLETION OF PROJECT AND ACCEPTANCE BY OWNER.

END OF SECTION

SECTION 08 16 00.00 - MOLDED COMPOSITE DOORS

PART 1 - GENERAL

1.1 SECTION INCLUDES

- A. INTERIOR MOLDED DOORS: PASSAGE DOORS.

1.2 SUBMITTALS

- A. PRODUCT DATA: SUBMIT DOOR MANUFACTURER CURRENT PRODUCT LITERATURE, INCLUDING INSTALLATION INSTRUCTION.
- B. SAMPLES: PROVIDE FINISH SAMPLES FOR ALL PRODUCTS.
- C. CLOSEOUT SUBMITTALS: REFER TO SECTION 0 17 00 EXECUTION AND CLOSEOUT REQUIREMENTS CLOSEOUT SUBMITTALS.

1.3 DELIVERY, STORAGE AND HANDLING

- A. DELIVER DOORS, MATERIALS AND COMPONENTS IN MANUFACTURER'S ORIGINAL, UNOPENED, UNDAMAGED CONTAINERS WITH IDENTIFICATION LABELS INTACT.
- B. STORE DOORS AS RECOMMENDED BY MANUFACTURER.

1.4 WARRANTY

- A. MANUFACTURER'S STANDARD WARRANTY: ASSEMBLIES WILL BE FREE FROM DEFECTS IN MATERIALS AND WORKMANSHIP FROM THE DATE OF MANUFACTURE FOR THE TIME PERIODS INDICATED BELOW:
- BASIC PRODUCT COVERAGE: COMMERCIAL: 5 YEARS.
 - DOOR FRAMES: 1 YEAR.
 - FACTORY PREFINISH: 1 YEAR. WARRANTED AGAINST PEELING, CHECKING OR CRACKING.

PART 2 - PRODUCTS

2.1 MANUFACTURER

- A. ACCEPTABLE MANUFACTURER: JELD-WEN, INC., OR ARCHITECT APPROVED EQUAL.
- B. BASIS OF DESIGN: DOORS ARE BASED ON JELD-WEN'S MOLDED INTERIOR DOORS: BIRKDALE.

2.2 PASSAGE DOORS

- A. DOOR STYLE:
- DOOR TYPE: ALL PANEL.
 - DOOR SHAPE: SQUARED TOP.
 - SURFACE FINISH: SMOOTH.
 - PANELS AND STICKING PROFILE: THREE PANELS WITH CRAFTSMAN STICKING.
- B. CORE AND FRAME:
- SOLID CORE WITH COMBINATION WOOD/MDF FRAME.
 - THICKNESS: 1-3/4 INCH (44.4 MM).
- C. HARDWARE: NONE.
- PREP DOOR FOR LOCKSET SPECIFIED ELSEWHERE.
- D. FINISH: PREPARED.
- 2.3 PREHUNG DOORS
- A. PROFILE:
- SYSTEM 01, SINGLE DOOR.
- B. JAMBS:
- JAMB WIDTH: COORDINATE WITH DRAWINGS
 - JAMB TYPE: FLAT
 - JAMB SPECIES: FINGER-JOINTED PINE.
- C. HINGES: SAE 1010 CARBON STEEL.
- SIZE: 4 INCH (101.6 MM) X 4 INCH (101.6 MM) STANDARD WITH 5/8 INCH (15.9 MM) RADIUS CORNER (STANDARD FOR 1-3/4 INCH (44.4 MM) THICK DOORS)
- D. HARDWARE FINISH:
- AS SELECTED BY ARCHITECT.

PART 3 - EXECUTION

3.1 GENERAL

- A. INSTALL DOORS IN ACCORDANCE WITH MANUFACTURER'S INSTALLATION GUIDELINES AND RECOMMENDATIONS.

3.2 EXAMINATION

- A. INSPECT DOOR PRIOR TO INSTALLATION.
- B. INSPECT ROUGH OPENING FOR COMPLIANCE WITH DOOR MANUFACTURER RECOMMENDATIONS. VERIFY ROUGH OPENING CONDITIONS ARE WITHIN RECOMMENDED TOLERANCES.

3.3 PREPARATION

- A. PREPARE DOOR FOR INSTALLATION IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
- B. TRIM BOTTOM OF JAMB SIDES TO ACHIEVE DESIRED DISTANCE BETWEEN DOOR BOTTOM AND FINISHED FLOOR HEIGHT.

3.4 PASSAGE DOOR INSTALLATION

- A. PLACE DOOR UNIT INTO OPENING AND LEVEL HINGE SIDE OF JAMB. USE SHIMS FASTENED THROUGH JAMB AND STOP TO LEVEL AND TEMPORARILY SECURE IN PLACE.
- B. LEVEL LATCH SIDE OF JAMB. USE SHIMS FASTENED THROUGH JAMB AND STOP TO LEVEL AND TEMPORARILY SECURE IN PLACE.
- C. VERIFY SPACING BETWEEN JAMB AND DOOR IS UNIFORM ON ALL SIDES. ADJUST AS NECESSARY.
- D. SHIM TOP OF JAMB IN CENTER OF OPENING AND FASTEN WITH NAIL.
- E. RE-CHECK FOR SQUARE, LEVEL AND EVEN SPACING AROUND DOOR. NAIL SECURELY IN PLACE THROUGH STOP, JAMB, SHIMS AND INTO STUDS EVERY 12 INCHES. SET NAILS.
- G. INSTALL TRIM ON BOTH SIDES USING NAILS EVERY 12 TO 16 INCHES.

END OF SECTION

SECTION 08 52 13 - METAL-CLAD WOOD WINDOWS

PART 1 GENERAL

1.1 SUMMARY

- A. SECTION INCLUDES: WOOD-FRAMED, ALUMINUM-CLAD WINDOWS OF THE FOLLOWING TYPES: DOUBLE-HUNG AND DIRECT-SET FIXED.

1.2 PERFORMANCE REQUIREMENTS

- A. STRUCTURAL PERFORMANCE REQUIREMENTS:
- COMPLY WITH REQUIREMENTS OF NAFS.

1.3 SUBMITTALS

- A. PRODUCT DATA: FOR EACH TYPE OF PRODUCT REQUIRED.
- B. SHOP DRAWINGS: SHOWING METHODS OF INSTALLATION, PLANS, SECTIONS, ELEVATIONS AND DETAILS OF WALLS, SPECIFIED LOADS, FLASHINGS, VENTS, SEALANTS, AND INTERFACES WITH ALL MATERIALS NOT SUPPLIED BY THE WINDOW MANUFACTURER, AND IDENTIFICATION OF PROPOSED COMPONENT PARTS AND FINISHES.
- C. SAMPLES: SELECTION AND VERIFICATION SAMPLES FOR FINISHES, COLORS AND TEXTURES. SUBMIT TWO COMPLETE SAMPLE SETS OF EACH TYPE OF MATERIAL REQUIRED.
- D. TEST AND EVALUATION REPORTS: SHOWING COMPLIANCE WITH SPECIFIED PERFORMANCE CHARACTERISTICS AND PHYSICAL PROPERTIES.

1.4 QUALITY ASSURANCE

- A. MANUFACTURER QUALIFICATIONS:
- MEMBER IN GOOD STANDING OF THE INSULATING GLASS CERTIFICATION COUNCIL (IGCC).
 - HALLMARK CERTIFIED MANUFACTURER AND MEMBER IN GOOD STANDING OF THE WINDOW AND DOOR MANUFACTURERS ASSOCIATION (WDMA).

1.5 DELIVERY, STORAGE AND HANDLING

- A. COMPLY WITH MANUFACTURER'S ORDERING INSTRUCTIONS AND LEAD TIME REQUIREMENTS TO AVOID CONSTRUCTION DELAYS.
- B. DELIVER MATERIALS TO PROJECT IN MANUFACTURER'S ORIGINAL UNOPENED, UNDAMAGED CONTAINERS WITH IDENTIFICATION LABELS INTACT.
- C. STORAGE AND PROTECTION: STORE MATERIALS AND ACCESSORIES PROTECTED FROM EXPOSURE TO HARMFUL ENVIRONMENTAL CONDITIONS AND AT TEMPERATURE AND HUMIDITY CONDITIONS RECOMMENDED BY MANUFACTURER OFF GROUND, UNDER COVER AND NOT EXPOSED TO WEATHER AND CONSTRUCTION ACTIVITIES.

1.8 WARRANTY

- A. SPECIAL WARRANTY: MANUFACTURER'S TRANSFERRABLE, NON-PRORATED LIMITED WARRANTY.
- WARRANTY PERIOD, GLASS: 20 YEARS.
 - WARRANTY PERIOD, NON-GLASS PARTS: 10 YEARS.

PART 2 PRODUCT

2.1 METAL-CLAD WOOD WINDOWS

- A. GENERAL: PROVIDE WINDOWS COMPLYING WITH THE PERFORMANCE REQUIREMENTS INDICATED AND TESTED ACCORDING TO NAFS.
- B. BASIS-OF-DESIGN PRODUCT: SUBJECT TO COMPLIANCE WITH REQUIREMENTS PROVIDE ANDERSEN CORPORATION: ANDERSEN E-SERIES WINDOWS OR ARCHITECT APPROVED EQUAL.

2.2 MATERIALS

- A. CONSTRUCTION:
- CLADDING: EXTRUDED ALUMINUM, MINIMUM THICKNESS 0.050 INCH (1.27 MM).
 - FRAME: PRESERVATIVE TREATED LAMINATED VENEER LUMBER.
 - INTERIOR EXPOSED FRAME: PRESERVATIVE TREATED SOLID LUMBER, KILN DRIED AND SUITABLE FOR STAIN OR PAINTED FINISH.
 - SASH: PRESERVATIVE TREATED SOLID LUMBER, KILN DRIED AND SUITABLE FOR STAIN OR PAINTED FINISH.
- B. WOOD SPECIES: PINE
- C. INTERIOR FINISH:
- PAINTED: FACTORY-APPLIED BEFORE ASSEMBLY, WHITE
- D. EXTERIOR FINISH:
- PAINTED FRAME: FACTORY-APPLIED BAKED-ON SILICONE POLYESTER ENAMEL, IN COMPLIANCE WITH COLOR AS SELECTED FROM MANUFACTURER'S STANDARD COLORS OF NO LESS THAN 50 OPTIONS]
 - PAINTED SASH: FACTORY-APPLIED BAKED-ON SILICONE POLYESTER ENAMEL, IN COMPLIANCE WITH COLOR AS SELECTED FROM MANUFACTURER'S STANDARD COLORS OF NO LESS THAN 50 OPTIONS.

2.3 WINDOWS

- A. WINDOW TYPE AND PERFORMANCE REQUIREMENTS: DOUBLE-HUNG FULL-FRAME AND SPECIALTY FIXED WINDOW.
- DOUBLE-HUNG FULL-FRAME PERFORMANCE CLASS LC AND GRADE, NON-IMPACT-RESISTANT: PG55.
 - SPECIALTY PERFORMANCE CLASS CW AND GRADE, NON-IMPACT-RESISTANT: PG55
- B. AIR INFILTRATION REQUIREMENTS:
- AIR INFILTRATION RATE: < 0.2 CFM/SF.
- C. WEATHERSTRIP:
- TYPE AND MATERIAL FOR HUNG OR GLIDING: THREE FINIS AND PILE, POLYPROPYLENE.
- D. INSTALLATION FLANGE TYPE: EXTRUDED ALUMINUM.
- E. HARDWARE:
- SASH LOCK TYPE AND MATERIAL: SINGLE-ACTUATION, DIE-CAST ZINC AND ENGINEERED POLYMER COMPONENTS.
 - SASH LOCK/TILT MECHANISM TYPE AND MATERIAL: SELF-LATCHING, DIE-CAST ZINC.
 - SASH LIFT TYPE AND MATERIAL: SURFACE MOUNTED, DIE-CAST ZINC.
 - SASH LOCK AND SASH LIFT FINISH: WHITE
 - BALANCER TYPE AND MATERIAL: SPRING-LOADED BLOCK AND TACKLE, GALVANIZED STEEL.
 - JAMB LINER:
 - TYPE AND MATERIAL: CONCEALED, RIGID VINYL.
 - COLOR: WHITE.
 - INTERIOR INSERTS: VINYL.
 - EXTERIOR INSERTS: ALUMINUM, COLOR TO MATCH WINDOW.
- F. DIVIDED LIGHTS:
- SIMULATED DIVIDED LIGHT: PERMANENT EXTERIOR AND INTERIOR ATTACHMENT, NO SPACER BETWEEN GLASS PANES.
 - STYLE: OVOLO.
 - WIDTH: 5/8 INCH (16MM)
 - PATTERN: AS SHOWN IN DRAWINGS.
 - EXTERIOR COLOR: MATCH WINDOW.
 - INTERIOR FINISH: WHITE
- H. INSECT SCREENS:
- TYPE: CONVENTIONAL [FULL] [HALF].
 - FRAME MATERIAL: ALUMINUM.
 - PAINTED FINISH AND COLOR: FACTORY-APPLIED BAKED-ON SILICONE POLYESTER ENAMEL.
 - INSECT SCREEN MATERIAL: FIBERGLASS MESH
- I. EXTERIOR TRIM AND ACCESSORIES:
- TYPE: 5-1/2 INCH FLAT CASING.
 - TYPE: 1-1/2 INCH SILL NOSE OR AS INDICATED IN THE DRAWINGS
 - MATERIAL: FACTORY-APPLIED EXTRUDED ALUMINUM WITH CORNER KEYS.
 - FINISH AND COLOR: MATCH WINDOWS.

2.4 NON-IMPACT-RESISTANT GLAZING

- A. THERMAL TRANSMISSION (U-FACTOR), NFRC 100:
- DOUBLE-HUNG: 0.31 WITH GRILLES
 - DIRECT-SET FIXED: 0.29 WITH GRILLES
- B. SOLAR HEAT GAIN COEFFICIENT (SHGC), NFRC 200:
- DOUBLE-HUNG: 0.18 WITH GRILLES
 - DIRECT-SET FIXED: 0.21 WITH GRILLES
- C. VISIBLE LIGHT TRANSMITTANCE (VLT), NFRC 200:
- DOUBLE-HUNG: 0.40 WITH GRILLES
 - DIRECT-SET FIXED: 0.50 WITH GRILLES
- E. GLASS UNITS: PROVIDE INSULATING GLASS UNITS CERTIFIED THROUGH INSULATING GLASS CERTIFICATION COUNCIL AS CONFORMING TO THE REQUIREMENTS OF IGCC AND ASTM E2190.
- MANUFACTURER DESIGNATION: ANDERSEN LOW-E4 GLASS.
 - GLAZING CONFIGURATION: DUAL-PANE
 - TINT: NONE
 - SEAL AND SPACER TYPE: DUAL SEALED INSULATING GLASS UNITS WITH POLYISOBUTYLENE PRIMARY SEAL, SILICONE SECONDARY SEAL AND STAINLESS STEEL SPACERS.
 - GLASS SPACER COLOR: BLACK
 - GLASS TYPE: ANNEALED GLASS, ASTM C1036

PART 3 EXECUTION

3.1 EXAMINATION

- A. VERIFY THAT ALL SUBSTRATE CONDITIONS ARE SUITABLE FOR INSTALLATION IN COMPLIANCE WITH MANUFACTURER'S RECOMMENDATIONS.
- B. DO NOT BEGIN INSTALLATION UNTIL SUBSTRATES HAVE BEEN PROPERLY PREPARED AND ANY CONDITIONS NOT IN COMPLIANCE WITH MANUFACTURER'S RECOMMENDATIONS HAVE BEEN CORRECTED.

3.2 INSTALLATION

- A. GENERAL: COMPLY WITH MANUFACTURER'S PRODUCT RECOMMENDATIONS, INCLUDING BUT NOT LIMITED TO THE ANDERSEN UNIT INSTALLATION GUIDE, INSTALLATION INFORMATION IN PRODUCT LITERATURE AND ON PRODUCT PACKAGING. COMPLY WITH DRAWINGS AND SHOP DRAWINGS FOR INSTALLING WINDOWS, HARDWARE, ACCESSORIES, AND OTHER COMPONENTS.
- B. INSTALL WINDOWS PLUMB, LEVEL AND SQUARE. ANCHOR WINDOWS SECURELY TO STRUCTURE IN CORRECT ORIENTATION TO FLASHING AND ADJACENT CONSTRUCTION AS INDICATED. COMPLY WITH PRODUCT INSTALLATION INSTRUCTIONS FOR PROPER FLASHING INTEGRATION INTO WALL SYSTEM. INSTALL WINDOWS SO AS TO DRAIN WATER PENETRATION TO THE EXTERIOR.
- C. ADJUST SASHES, INSECT SCREENS, VENTILATORS, HARDWARE AND ACCESSORIES AS APPLICABLE FOR CORRECT FIT. ADJUST WEATHERSTRIP FOR SMOOTH OPERATION AND WEATHER-TIGHT CLOSURE.

3.3 FIELD QUALITY CONTROL

- A. MANUFACTURER'S FIELD SERVICES: IF REQUESTED BY OWNER, PROVIDE MANUFACTURER'S FIELD SERVICE CONSISTING OF PRODUCT USE RECOMMENDATIONS AND PERIODIC SITE VISITS FOR OBSERVATION OF PRODUCT INSTALLATION IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

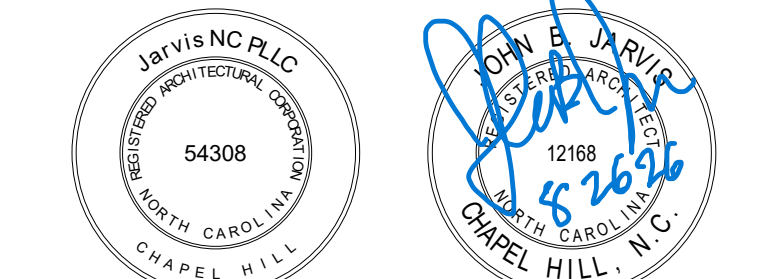
3.4 CLEANING

- A. REFER TO MANUFACTURER FOR GUIDANCE ON TIMING FOR WHEN BEST TO REMOVE PROTECTIVE FILMS AND NON-PERMANENT LABELS AFTER INSTALLATION.
- B. REMOVE EXCESS SEALANT, SOILING, DIRT AND OTHER SUBSTANCES. CLEAN WINDOW FRAME AND GLASS SURFACES. AVOID DAMAGING COATINGS AND FINISHES.
- C. TOUCH-UP, REPAIR OR REPLACE GLASS OR OTHER WINDOW COMPONENTS BROKEN, SCRATCHED OR DAMAGED DURING CONSTRUCTION PRIOR TO SUBSTANTIAL COMPLETION.
- D. REMOVE AND LAWFULLY DISPOSE OF CONSTRUCTION DEBRIS FROM PROJECT SITE.

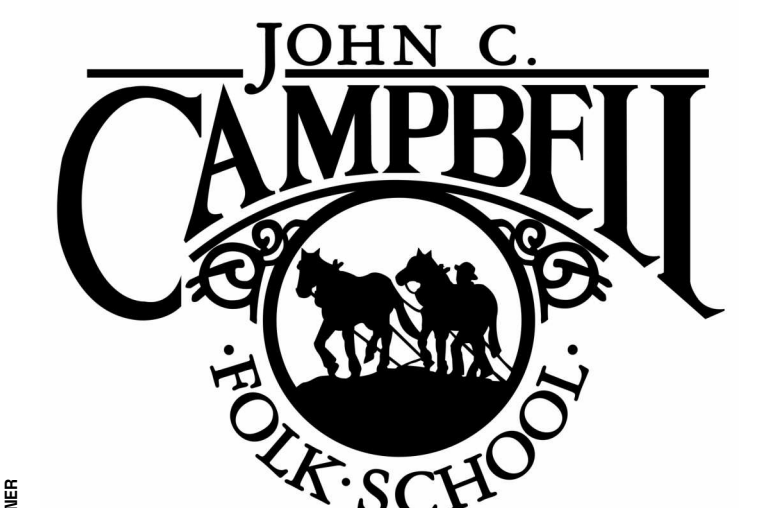
3.5 PROTECTION

- A. PROTECT INSTALLED WINDOWS AND FINISH SURFACES FROM DAMAGE DURING CONSTRUCTION UNTIL COMPLETION OF PROJECT AND ACCEPTANCE BY OWNER.

END OF SECTION



NO.	DATE	DESCRIPTION
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SELECT SPECIFICATIONS

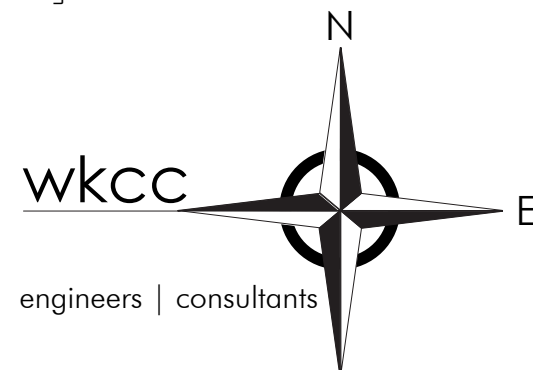
A602

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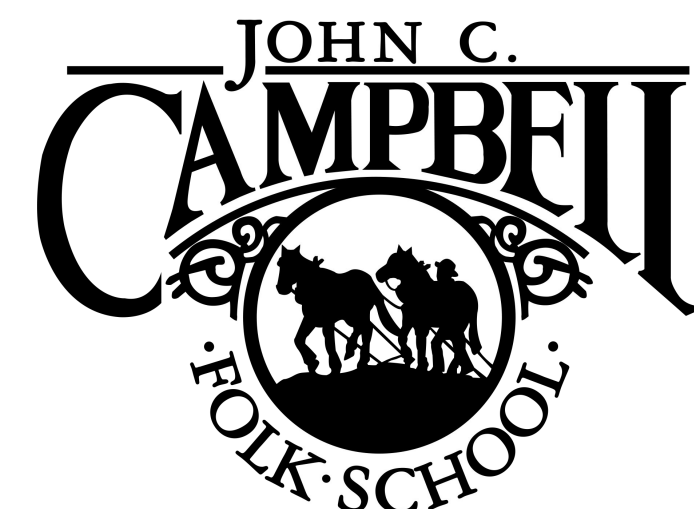
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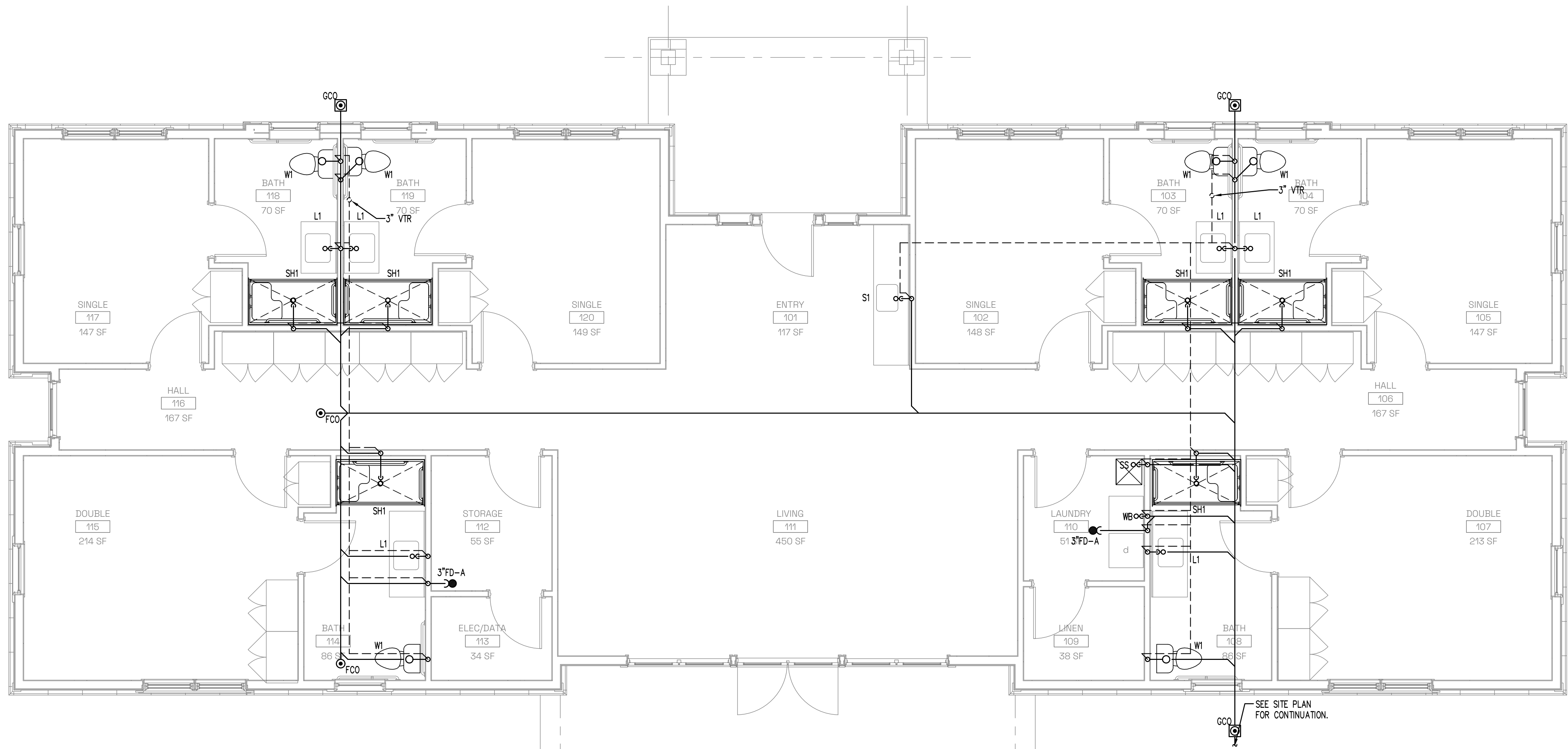
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S,W, &V FLOOR PLAN AND RISER

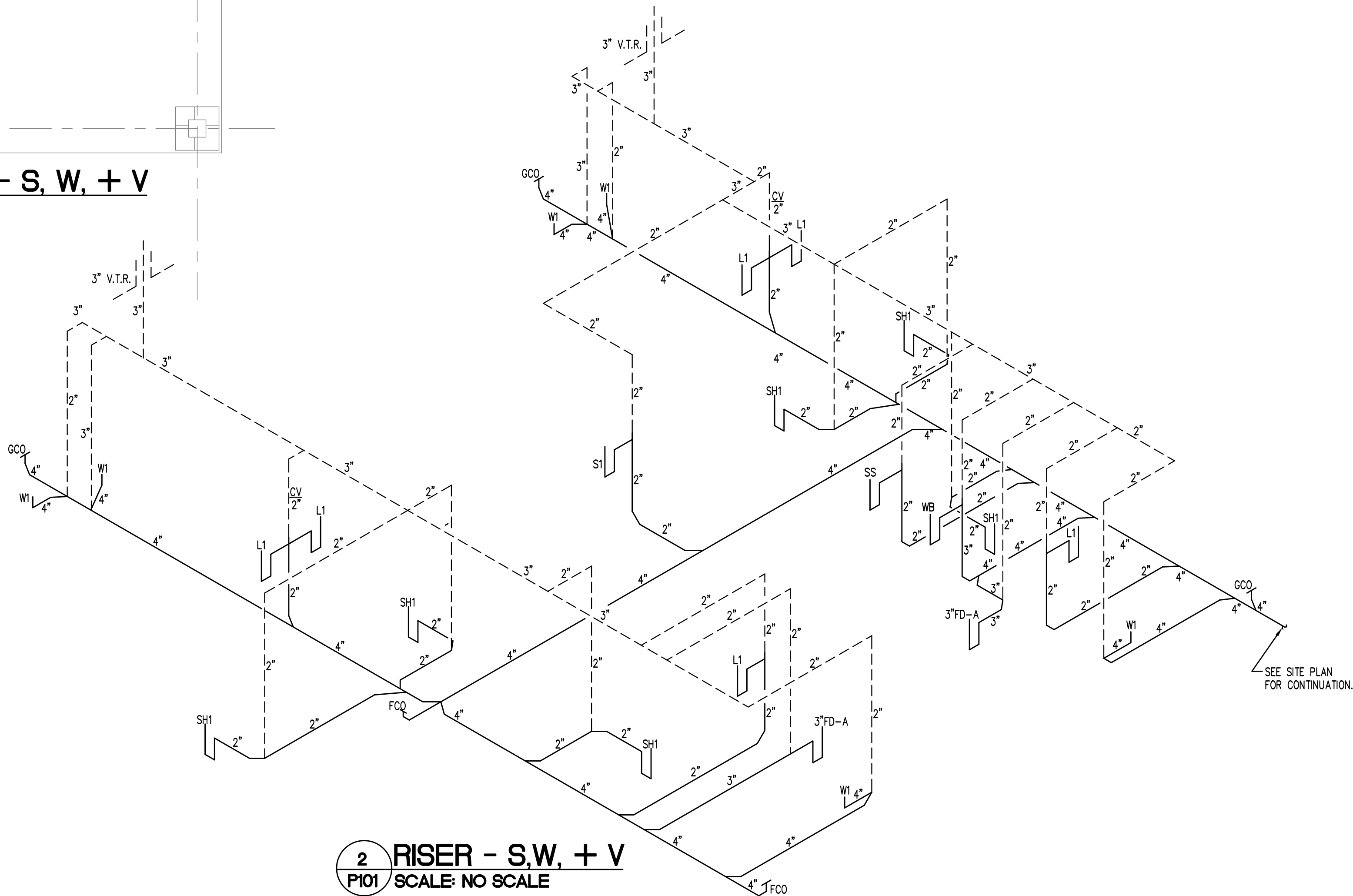
P101

DRAWING INFORMATION

08.26.26



1 FLOOR PLAN - S, W, + V
P101 SCALE: 1/4" = 1' - 0"



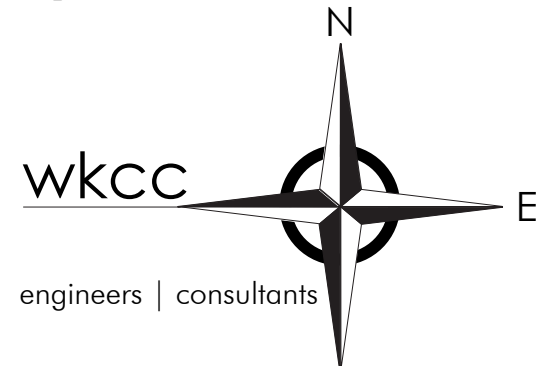
2 RISER - S,W, + V
P101 SCALE: NO SCALE

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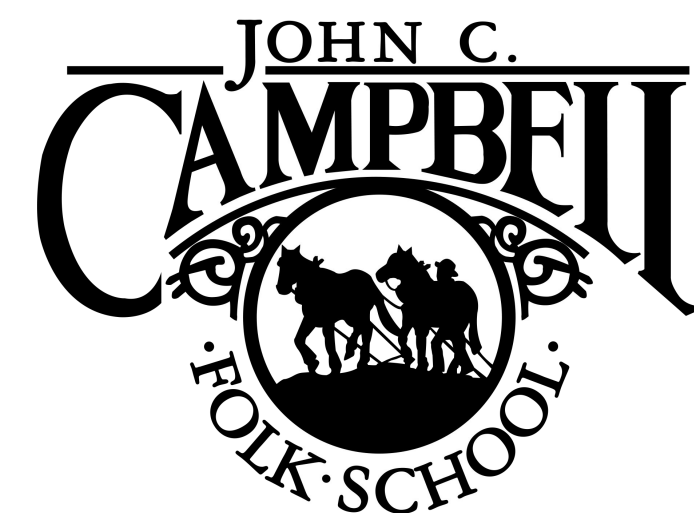
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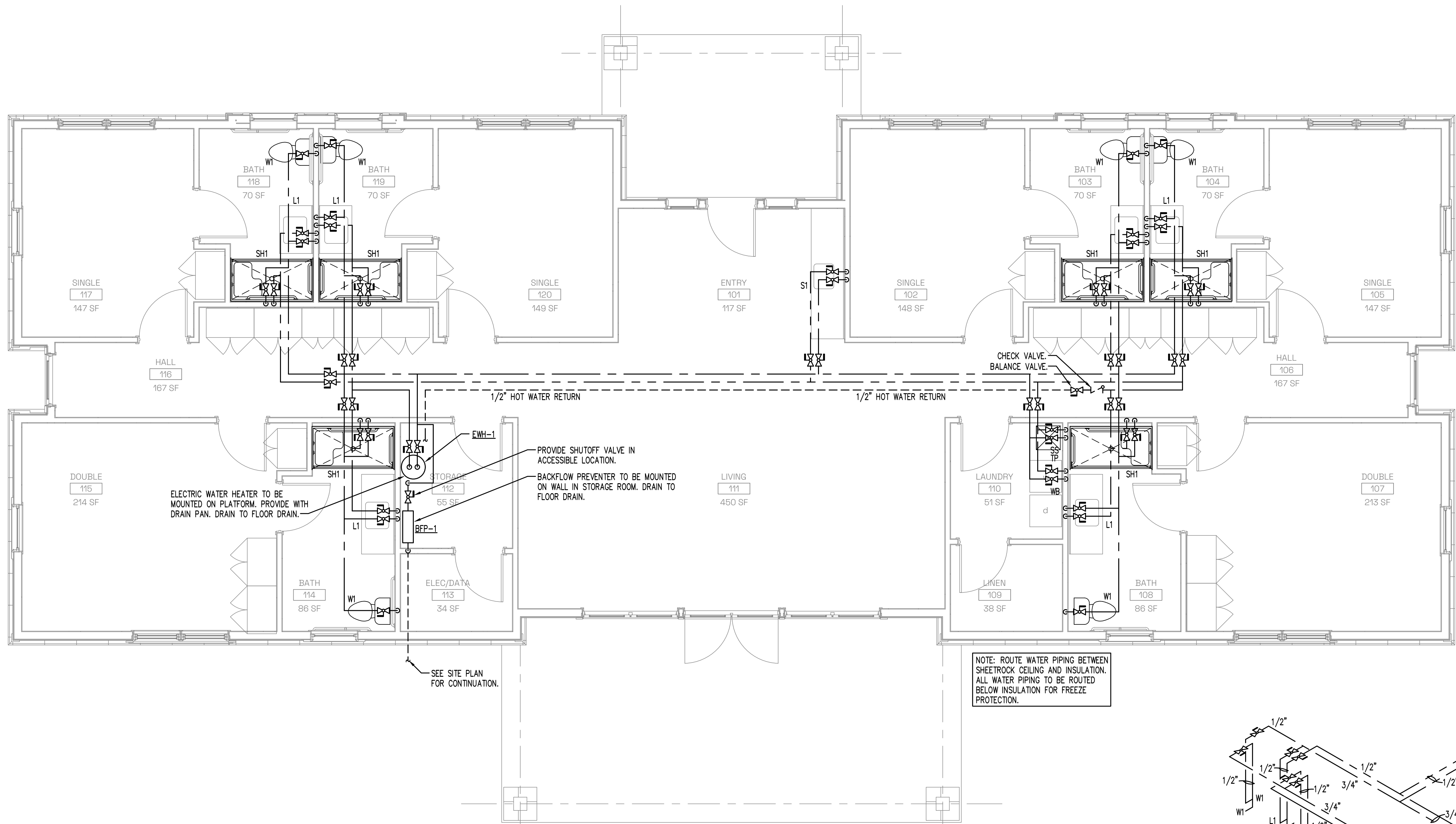
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WATER FLOOR PLAN AND RISER

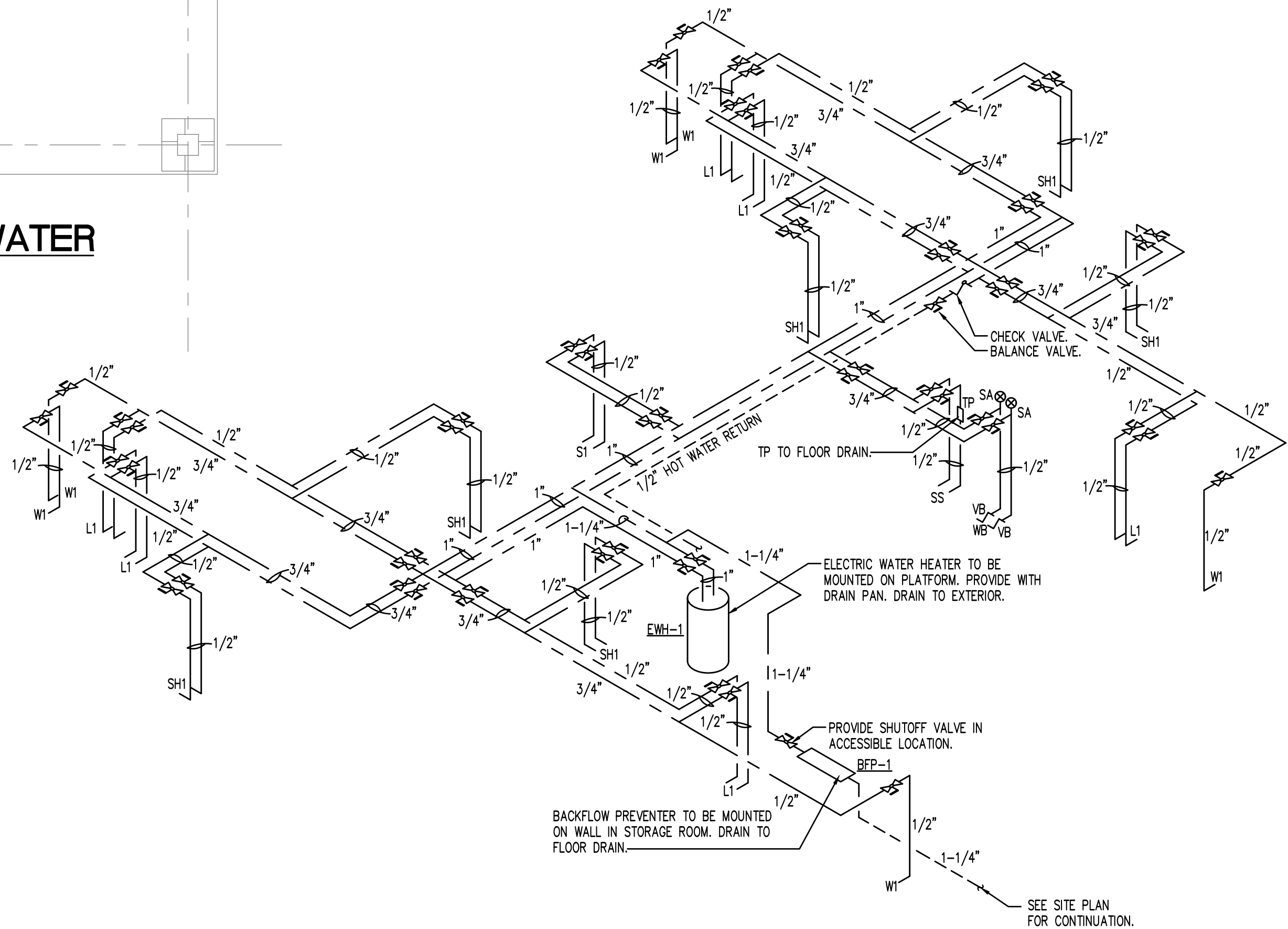
P102

DRAWING INFORMATION

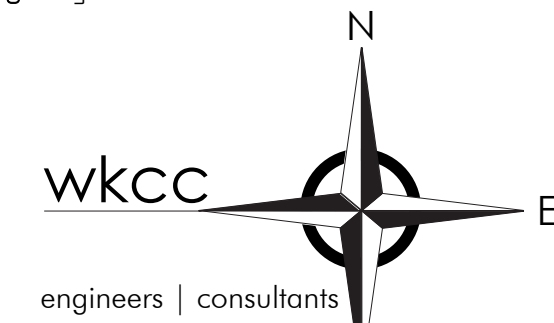
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1 FLOOR PLAN - WATER
P102 SCALE: 1/4" = 1' - 0"



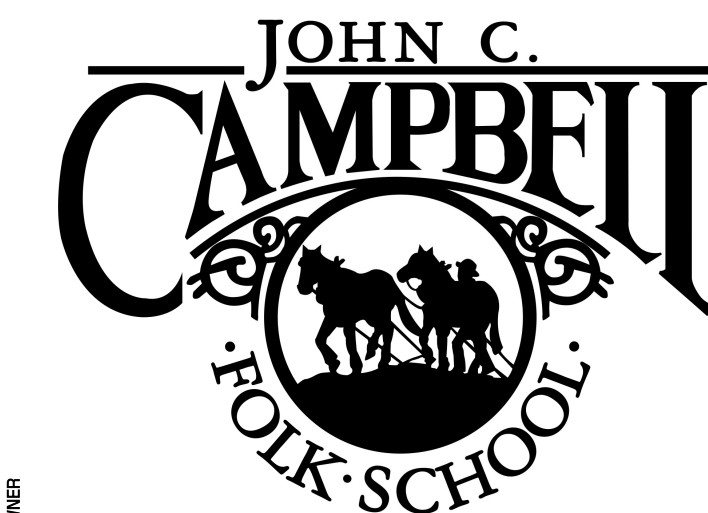
2 RISER - WATER
P102 SCALE: NO SCALE



STAMP

ISSUANCES

NO. DATE DESCRIPTION



OWNER

ACCESSIBLE
HOUSING

ONE FOLK SCHOOL RD
BRASSTOWN, NC 28902

JOB NO: 26162

PLUMBING
DETAILS

P201

08.26.26

PLUMBING SPECIFICATIONS

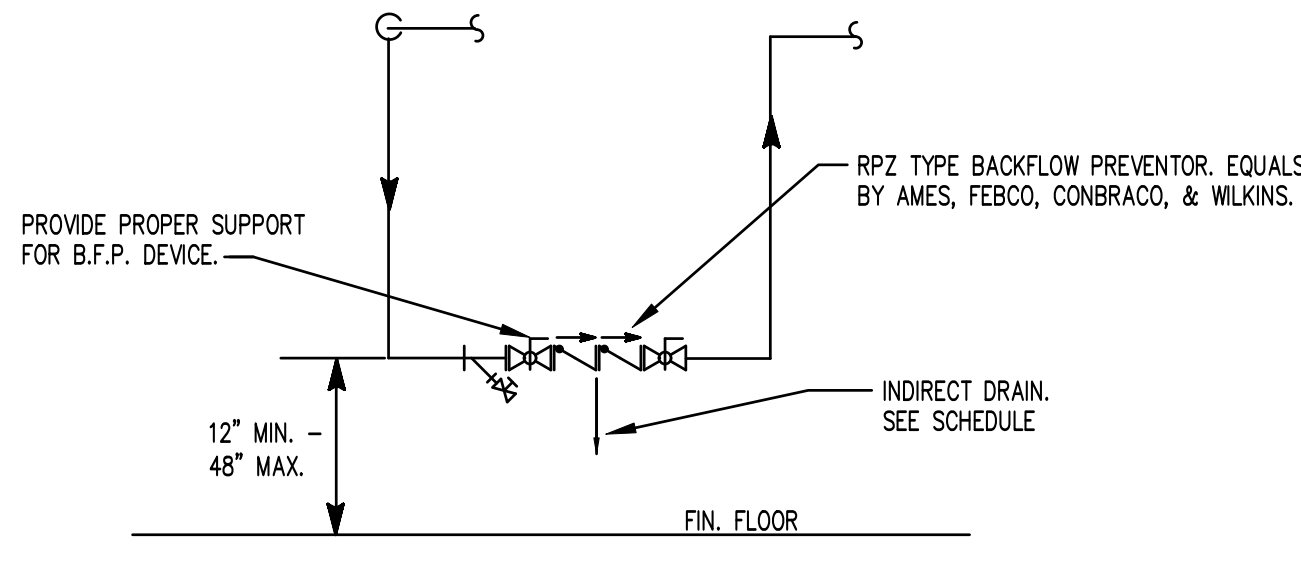
PLUMBING SPECIFICATIONS:

- 1.) THE ENTIRE PLUMBING SYSTEM SHALL BE IN ACCORDANCE WITH 2018 NORTH CAROLINA PLUMBING CODE AND LOCAL PLUMBING INSPECTOR.
- 2.) ALL WORK SHALL BE COORDINATED WITH ALL OTHER TRADES PRIOR TO INSTALLATION. CONTRACTOR SHALL COORDINATE ROUTING OF ALL PIPING WITH EXISTING CONDITIONS AND SHALL PROVIDE ANY NECESSARY OFFSETS, REROUTING, ETC. REQUIRED FOR A COMPLETE AND COORDINATED INSTALLATION.
- 3.) THESE PLANS ARE DIAGRAMMATIC. CONTRACTOR SHALL PROVIDE ALL NECESSARY OFFSET, TEES, ELBOWS, ETC. FOR A COMPLETE WORKING PLUMBING SYSTEM.
- 4.) THE CONTRACTOR SHALL OBTAIN AND PAY ALL FEES RELATED TO PERMITTING, INSPECTIONS, TAPS, ETC.
- 5.) CONTRACTOR SHALL COORDINATE ANY PLUMBING SYSTEM REQUIRING SHUTDOWN WITH THE OWNER 48 HOURS PRIOR TO BEGINNING WORK.
- 6.) ALL DOMESTIC WATER PIPING SHOWN IS ABOVE CEILING/WITHIN WALLS UNLESS NOTED OTHERWISE.
- 7.) ALL DOMESTIC WATER PIPING (ABOVE SLAB) SHALL BE TYPE "L" COPPER WITH 95/5 LEAD FREE SOLDER. ABOVE SLAB, OUTSIDE OF PLENUM SPACES, PEX PIPING IS ACCEPTABLE. ALL WATER PIPING (BELOW SLAB) SHALL BE TYPE "K" SOFT COPPER. COMPLY W/ ASTM B-88-B8A.
- 8.) ALL WATER PIPING SHALL BE INSULATED WITH CLOSED CELL (ARMAFLEX) TYPE INSULATION WITH THE FLAME DENSITY RATING NOT EXCEEDING 25 & THE SMOKE DENSITY RATING NOT EXCEEDING 50. THICKNESS FOR COLD WATER PIPING SHALL BE 1/2" THICK. THICKNESS FOR HOT WATER & RETURN PIPING SHALL BE 1" THICK.
- 9.) ALL BRANCH LINES SHALL HAVE SHUT-OFF VALVES. ALL DOMESTIC WATER BALL VALVES SHALL BE BRASS BODY. FULL PORT, CHROME PLATED BALL, TEFLON SEATS, 150# WSP, FOR SIZES 1/2" THRU 2". SIZES ABOVE 2" SHALL BE BRONZE GATE VALVE, NRS SOLID DISC, SCREW OVER BONNET, 125# WSP. PROVIDE VALVE HANDLE EXTENSIONS AS REQUIRED FOR INSULATION.
- 10.) ALL PLUMBING FIXTURES AND KITCHEN EQUIPMENT SHALL HAVE A PISTON TYPE WATER HAMMER ARRESTOR SIZED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS & PDI STANDARDS.
- 11.) ALL SANITARY SEWER PIPING SHOWN IS BELOW SLAB/WITHIN WALLS UNLESS NOTED OTHERWISE. ALL SANITARY VENT PIPING SHOWN IS ABOVE CEILING/WITHIN WALLS UNLESS NOTED OTHERWISE.
- 12.) ALL WASTE & VENT PIPING (ABOVE SLAB) SHALL BE PVC-DWV WITH PIPING AND FITTINGS CONFORMING TO ASTM D-2665. PLENUM SPACE WASTE & VENT PIPING (ABOVE SLAB) SHALL BE SERVICE WEIGHT CAST IRON WITH NO-HUB FITTINGS CONFORMING TO CISPI 301. JOINTS SHALL BE ONE-PIECE NEOPRENE GASKET WITH STAINLESS STEEL BAND AND BOLTS CONFORMING TO ASTM C564-85.
- 13.) ALL WASTE & VENT PIPING (BELOW SLAB) SHALL BE PVC-DWV WITH PIPING AND FITTINGS CONFORMING TO ASTM D-2665.
- 14.) ALL PIPING SYSTEMS SHALL BE SUPPORTED AS REQUIRED BY 2018 NORTH CAROLINA PLUMBING CODE & MANUFACTURER'S RECOMMENDATIONS.
- 15.) ALL PIPING PENETRATIONS THRU NEW/EXISTING WALLS/FLOORS SHALL BE SEALED TO EQUAL THE RATING OF THE NEW/EXISTING WALL OR FLOOR.
- 16.) ALL PLUMBING SYSTEMS SHALL BE TESTED AS REQUIRED BY 2018 NORTH CAROLINA PLUMBING CODE.
- 17.) THE PLUMBING CONTRACTOR SHALL COORDINATE ALL UNDERSLAB PLUMBING PIPING WITH ALL STRUCTURAL FOUNDATIONS. P.C. SHALL COORDINATE ALL UNDERSLAB PLUMBING PIPING ELEVATION INVERTS WITH SITE UTILITY ELEVATION INVERTS.
- 18.) P.C. SHALL COORDINATE ALL KITCHEN EQUIPMENT REQUIRING PLUMBING CONNECTIONS WITH KITCHEN EQUIPMENT VENDOR. PROVIDE ALL NECESSARY P-TRAPS, SUPPLY STOPS, INDIRECT PIPING, ETC. REQUIRED FOR COMPLETE HOOK-UP OF KITCHEN EQUIPMENT REQUIRING PLUMBING CONNECTIONS.
- 19.) THE BACKFLOW PREVENTION DEVICE SHALL BE INSTALLED AS REQUIRED PER LOCAL AUTHORITY.
- 20.) THE ENTIRE DOMESTIC WATER SYSTEM SHALL BE DISINFECTED IN ACCORDANCE WITH 2018 NORTH CAROLINA PLUMBING CODE.
- 21.) ALL VENT THRU THE ROOF PENETRATIONS SHALL BE COORDINATED WITH THE GENERAL CONTRACTOR AND SHALL BE CONCEALED BEHIND ROOF RIDGE WHERE POSSIBLE. P.C. SHALL PROVIDE ALL FLASHING MATERIAL REQUIRED FOR VENT THRU ROOF. ALL VTR'S SHALL BE LOCATED A MINIMUM OF 10'-0" FROM ALL OUTSIDE AIR INTAKES.
- 22.) ALL GAS PIPING AND GAS FLUE TO GAS WATER HEATER BY PLUMBING CONTRACTOR.
- 23.) PLUMBING CONTRACTOR SHALL HAVE RECEIVED APPROVED SHOP DRAWINGS FROM THE ENGINEER PRIOR TO BEGINNING NEW WORK.

PLUMBING FIXTURES AND EQUIPMENT

MARK	DESCRIPTION	PIPE SERVICE AND CONN. SIZE			FIXTURE SPECIFICATIONS
		CW	HW	WASTE	
W1	WATER CLOSET FLR. MTD. (ADA)	1/2"		4"	ADA FIXTURE SPECIFIED BY OWNER/ARCHITECT, 1.6 GPF VITREOUS CHINA ELONGATED BOWL WITH SIPHON JET FLUSHING, WITH SIDE TRIP LEVER, 12" ROUGH-IN, 1" HIGH, & 2 BOLT CAPS. SEAT: BEIMS MODEL 1955SSCT ANTI MICROBIAL HEAVY DUTY ELONGATED WHITE OPEN FRONT SEAT. VALVE: MCGUIRE MODEL LF2166. 3/8" x 12" FLEX RISER ANGLE CLOSET SUPPLY WITH STOP. MOUNT SIDE TRIP LEVER ON WIDE SIDE OF TOILET STALL.
L1	LAVATORY UNDER MT. (ADA)	1/2"	1/2"	1-1/2"	KOHLER UNDERMOUNT FIXTURE SPECIFIED BY OWNER/ARCHITECT. MOUNT LAVATORY RIM AT 34" A.F.F. TO MEET ADA REQUIREMENTS. TRAP & SUPPLIES: MCGUIRE NO. 8902 17 GA. 1-1/4" X 1-1/2" P-TRAP AND NIPPLE. MCGUIRE NO. 2165 ANGLE SUPPLY STOPS. FAUCET: KOHLER FAUCET SPECIFIED BY OWNER/ARCHITECT WITH GRID WASTE ASSEMBLY AND 0.5 GPM FLOW RESTRICTOR. MUST BE ADA COMPLIANT. ACCESSORIES: TRUEBRO HANDI-LAV GUARD INSULATION MODEL NO. 101 3-PIECE INTERLOCKING TRAP ASSEMBLY AND 2-PIECE INTERLOCKING HOT WATER ANGLE VALVE ASSEMBLY, AND NYLON TYPE FASTENERS. PROVIDE WITH ASSE 1070 COMPLIANT TEMPERATURE LIMITING DEVICE.
S1	SINK (ENTRY) SINGLE BOWL UNDER MT. (ADA-SIDE APPROACH)	1/2"	1/2"	1-1/2"	ELKAY MODEL UNDERMOUNT SINK SPECIFIED BY OWNER/ARCHITECT, 304 STAINLESS STEEL, 18 GAUGE, SELF-RIMMING SINGLE BOWL, DIM. 22" x 18" TRAP & SUPPLIES: MCGUIRE NO. 151 CHROME PLATED FORGED BRASS BASKET STRAINER WITH 1-1/2" X 4" TAILPIECE. MCGUIRE NO. 8912 17 GA. 1-1/2" P-TRAP AND NIPPLE. MCGUIRE NO. 2165 3/8"x12" FLEX RISER ANGLE SUPPLY STOPS. FAUCET: KOHLER CRUE GOOSENECK SPOUT WITH SINGLE HANDLE AND 1.5 GPM FLOW RESTRICTOR SPECIFIED BY OWNER/ARCHITECT. PROVIDE WITH ADA COMPLIANT LEVER.
SH1	SHOWER 60X36	1/2"	1/2"	2"	ADA SHOWER SPECIFIED BY OWNER/ARCHITECT. CONFIRM DRAIN LOCATION PRIOR TO ORDER. VALVE: VALVE, DIVERTER, TRIM KIT, ETC. SPECIFIED BY OWNER/ARCHITECT. VERIFY ADA COMPLIANT PACKAGE.
SS	SERVICE SINK	1/2"	1/2"	2"	FIAT MODEL FL-1 FLOOR MOUNTED SERV-A-SINK, SINGLE MOLDED STONE LAUNDRY TUB COMPLETE WITH WHITE BAKED ENAMEL LEGS AND LEVELING FEET. PROVIDE FIAT A-1 DECK MOUNTED FAUCET.
TP	TRAP PRIMER	1/2"	-	1-1/2"	PRECISION PRODUCTS MODEL PR-500
WB	WASHER BOX	1/2"	1/2"	3"	JONES & STEPHENS MODEL B05756 WALL MOUNTED @ 36" AFF. PROVIDE WITH SA AND VB.

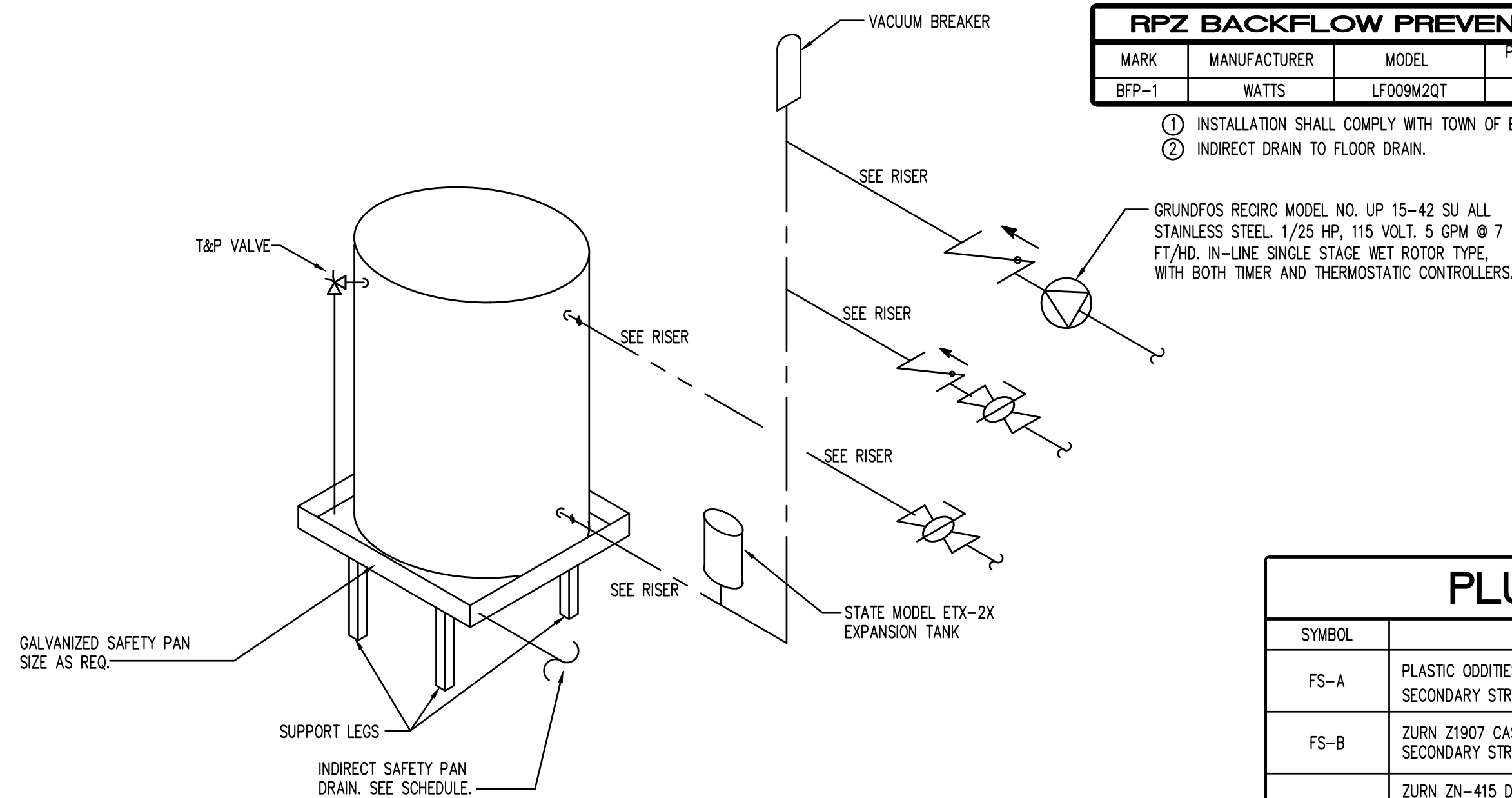
VERIFY FIXTURES WITH OWNER PRIOR TO ORDERING.



1 BACKFLOW PREVENTER DETAIL
P201 SCALE: NO SCALE

RPZ BACKFLOW PREVENTER SCHEDULE					
MARK	MANUFACTURER	MODEL	PIPING SIZE (IN)	MINIMUM DRAIN SIZE (IN)	REMARKS
BFP-1	WATTS	LF009M20T	1-1/4	2-1/2	① ②

- ① INSTALLATION SHALL COMPLY WITH TOWN OF BRASSTOWN REQUIREMENTS.
- ② INDIRECT DRAIN TO FLOOR DRAIN.



2 ELECTRIC WATER HEATER DETAIL
P201 SCALE: NO SCALE

ELECTRIC WATER HEATER SCHEDULE								
MARK	MANUFACTURER	MODEL	CAPACITY (GAL)	RECOVERY @ 100°F RISE	ELEMENT WATTS	VOLTS/ø	HEIGHT (IN)	REMARKS
EWH-1	STATE	PCE 82 20RTA	80	24 GPH	6000	208/3	59-3/8	① ②

- ① EQUALS BY RUUD/RHEEM, A.O. SMITH ACCEPTABLE.
- ② INDIRECT DRAIN SAFETY PAN TO FLOOR DRAIN.

PLUMBING LEGEND AND ABBREVIATIONS

_____	SANITARY SEWER PIPING (W)
- - - - -	VENT PIPING (V)
_____	COLD WATER PIPING (CW)
_____	HOT WATER PIPING (HW)
_____	HOT WATER RETURN PIPING (HWR)
_____	ELL TURNS UP
_____	ELL TURNS DOWN
_____	CHECK VALVE
_____	BALL VALVE
_____	GATE VALVE IN HORIZONTAL POSITION
_____	CLEANOUT IN GROUND (GCO)
_____	CLEANOUT IN FLOOR OR SLAB (FCO)
A.F.F.	ABOVE FINISH FLOOR
FD - A	FLOOR DRAIN - TYPE (SEE SCHEDULE)
H.B.	HOSE BIBB
FPWH	FREEZE PROOF WALL HYDRANT
H.D.	HUB DRAIN
INV. ELEV. OR I.E.	INVERT ELEVATION
P.C.	PLUMBING CONTRACTOR
V.T.R.	VENT THROUGH ROOF
CV	COMMON VENT
EOCV	END OF CIRCUIT VENT
BOCV	BEGINNING OF CIRCUIT VENT
_____	1 HOUR RATED BARRIER/PARTITION/WALL
_____	2 HOUR RATED BARRIER/PARTITION/WALL
_____	3 HOUR RATED BARRIER/PARTITION/WALL
_____	CONNECT TO EXISTING

PLUMBING ACCESSORIES

SYMBOL	SPECIFICATION
FS-A	PLASTIC ODDITIES PFS SERIES 12"x12"x10" DEEP, PVC, 1/2 GRATE, WITH PLASTIC, REMOVABLE SECONDARY STRAINER.
FS-B	ZURN Z1907 CAST IRON BODY, 12"x12"x8" DEEP, BOTTOM DOME STRAINER WITH REMOVABLE SECONDARY STRAINER.
FD-A	ZURN ZN-415 DURACOATED CAST IRON BODY WITH BOTTOM OUTLET, COMBINATION INVERTIBLE MEMBRANE CLAMP AND ADJUSTABLE COLLAR WITH 6" TYPE " B " POLISHED NICKEL BRONZE STRAINER. DEEP SEAL P-TRAP WITH TRAP PRIMER CONNECTION
FD-B	ZURN ZN-415 DURACOATED CAST IRON BODY WITH BOTTOM OUTLET, COMBINATION INVERTIBLE MEMBRANE CLAMP AND ADJUSTABLE COLLAR WITH 7" TYPE " I " POLISHED NICKEL BRONZE STRAINER WITH RAISED FLANGE. DEEP SEAL P-TRAP WITH TRAP PRIMER CONNECTION
FCO	ZURN ZN-1400 "LEVELTROL" ADJUSTABLE FLOOR CLEANOUT, DURACOATED CAST IRON BODY WITH GAS AND WATERTIGHT ABS TAPERED THREAD PLUG AND ROUND SCORIATED POLISHED NICKEL BRONZE TOP ADJUSTABLE TO FINISH FLOOR.
WCO	ZURN ZN-1441 WALL CLEANOUT, DURACOATED CAST IRON BODY WITH GAS AND WATERTIGHT ABS TAPERED THREAD PLUG AND ROUND SMOOTH STAINLESS STEEL ACCESS COVER WITH SECURING SCREW.
SA	WATTS SERIES 15 WATER HAMMER ARRESTOR TO MEET ALL REQUIREMENTS OF ASSE 1010 AS REQUIRED BY 2018 NCSCB, PLUMBING CODE, SECTION 604.9.
VB	ZURN MODEL VACUUM BREAKER TO MEET ALL REQUIREMENTS OF ASSE 1011 AS REQUIRED BY 2018 NCSCB, PLUMBING CODE, SECTION 608.13.6.

PLUMBING SUMMARY

SYSTEM & MATERIAL	FIXTURE UNITS	MAIN SIZE
WASTE AND VENT SYSTEM		
SCHEDULE 40 PVC-DWV CONFORMING TO ASTM D-2665	51.0	4"
DOMESTIC WATER SYSTEM		
BELOW SLAB: TYPE "K" SOFT COPPER WITH NO JOINTS BELOW SLAB ABOVE SLAB: TYPE "L" ANNEALED COPPER WITH 95/5 SOLDER JOINTS.	32.0	1-1/4" 24.0 GPM

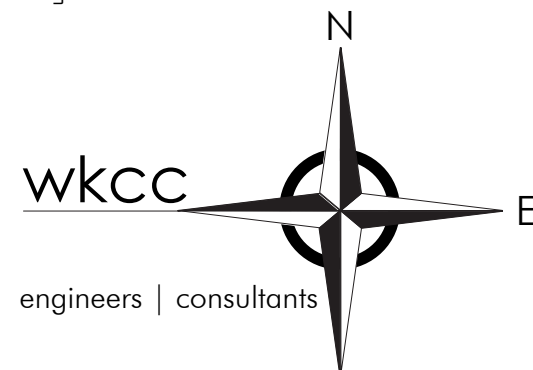
PLUMBING SUMMARY FOR THIS BUILDING ONLY.

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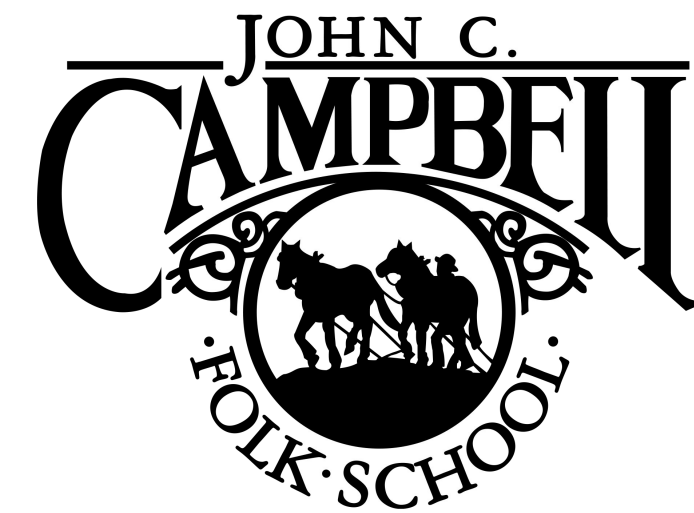
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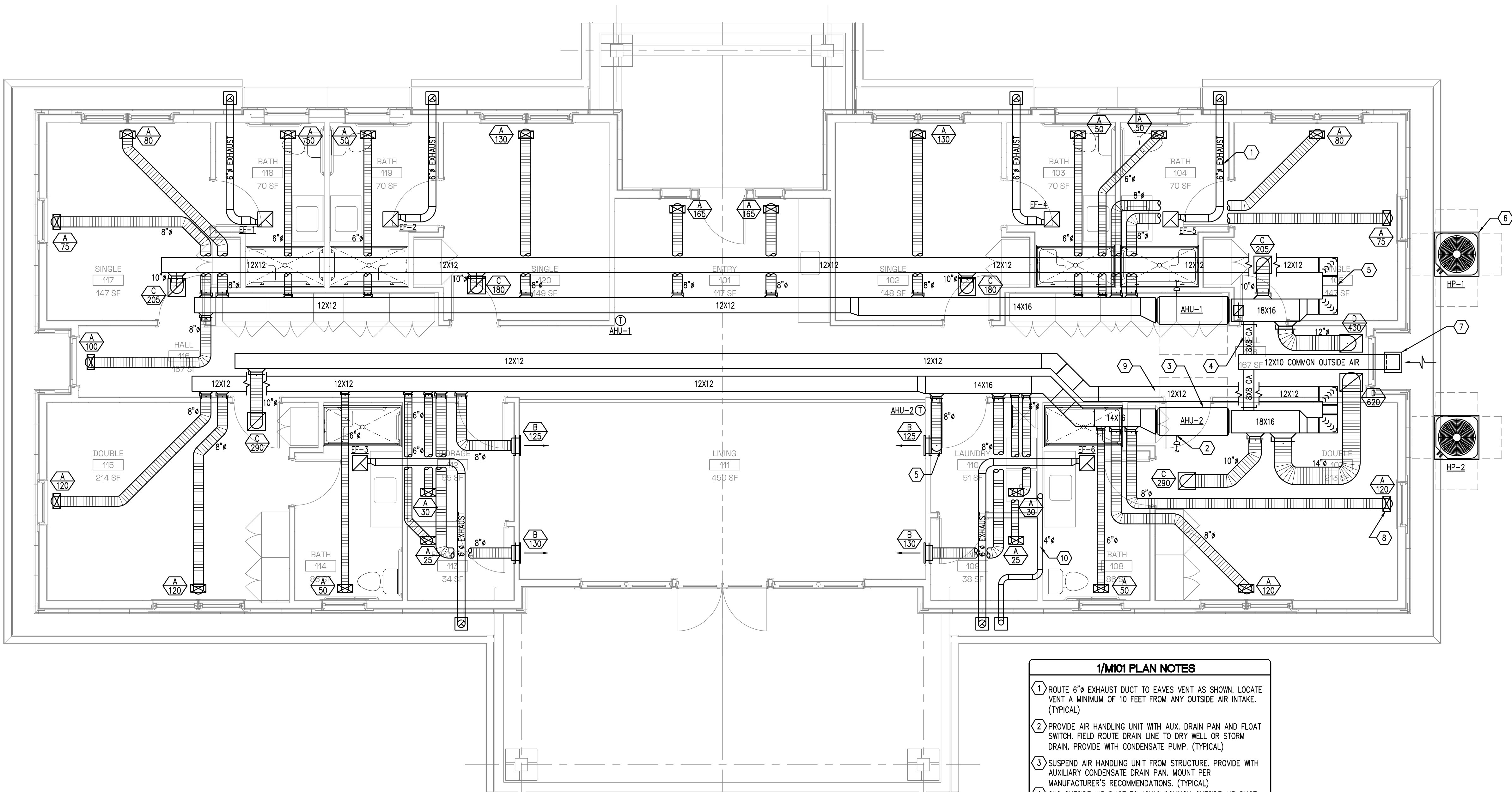
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BRASSTOWN, NC 28902
JOB NO: 26162

HVAC FLOOR PLAN

M101

08.26.26



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

1/M101 PLAN NOTES

- 1 ROUTE 6" EXHAUST DUCT TO EAVES VENT AS SHOWN. LOCATE VENT A MINIMUM OF 10 FEET FROM ANY OUTSIDE AIR INTAKE. (TYPICAL)
- 2 PROVIDE AIR HANDLING UNIT WITH AUX. DRAIN PAN AND FLOAT SWITCH. FIELD ROUTE DRAIN LINE TO DRY WELL OR STORM DRAIN. PROVIDE WITH CONDENSATE PUMP. (TYPICAL)
- 3 SUSPEND AIR HANDLING UNIT FROM STRUCTURE. PROVIDE WITH AUXILIARY CONDENSATE DRAIN PAN. MOUNT PER MANUFACTURER'S RECOMMENDATIONS. (TYPICAL)
- 4 8X8 OUTSIDE AIR DUCT TO 12X10 COMMON OUTSIDE AIR DUCT. ROUTE 12X10 COMMON OUTSIDE AIR DUCT TO EAVES VENT. PROVIDE MANUAL VOLUME DAMPER IN DUCT. LOCATE A MINIMUM OF 10 FEET FROM ANY VENT OR EXHAUST DISCHARGE. SEE SPLIT SYSTEM HEAT PUMP SCHEDULE FOR MINIMUM CFM. (TYPICAL)
- 5 COORDINATE DUCTWORK ROUTING WITH ATTIC ACCESS. VERIFY ACCESS TO MECHANICAL EQUIPMENT IS MAINTAINED. (TYPICAL)
- 6 MOUNT OUTDOOR HEAT PUMP UNIT ON 4" THICK CONCRETE PAD. FIELD VERIFY ACTUAL LOCATION OF OUTDOOR HEAT PUMP. ALLOW FOR CLEARANCES. MOUNT PER MANUFACTURER'S RECOMMENDATIONS. (TYPICAL)
- 7 OUTSIDE AIR INTAKE FOR AIR HANDLING UNITS LOCATED IN EAVES. MAINTAIN A MINIMUM OF 10FT FROM INTAKE TO NEAREST VENT OR EXHAUST DISCHARGE. PROVIDE MINIMUM OF 0.74SF FREE AREA.
- 8 MOUNT DIFFUSER BETWEEN CEILING JOISTS COORDINATE SIZE AND LOCATION WITH GENERAL CONTRACTOR. (TYPICAL)
- 9 ROUTE RETURN DUCTWORK HIGH TO ALLOW FOR AIR HANDLING UNIT SERVICE CLEARANCE. (TYPICAL)
- 10 ROUTE 4" DRYER DUCT TO EAVES VENT AS INDICATED. TERMINATE WITH DRYER VENT. COORDINATE WITH GENERAL CONTRACTOR AND BUILDING OWNER. MAINTAIN A MINIMUM OF 10 FEET FROM EXHAUST DISCHARGE TO NEAREST OUTSIDE AIR INTAKE. COMPLETE DRYER EXHAUST SYSTEM SHALL COMPLY WITH THE NORTH CAROLINA STATE BUILDING CODE; MECHANICAL CODE; SECTION 504. COMPLETE DRYER INSTALLATION SHALL COMPLY WITH THE NORTH CAROLINA STATE BUILDING CODE; MECHANICAL CODE; SECTION 913. PROVIDE WITH PLACARD INDICATING EQUIVALENT LENGTH OF DUCTWORK. (TYPICAL)

GENERAL NOTES:

1. THE HEATING AND AIR CONDITIONING CONTRACTOR (THE CONTRACTOR) SHALL PROVIDE ALL SPECIFIED AND MISCELLANEOUS MATERIAL AND LABOR AS REQUIRED FOR A COMPLETE AND OPERATING SYSTEM AS DESCRIBED BY THESE PLANS AND SPECIFICATIONS.

2. ALL FLEXIBLE DUCT CONNECTIONS TO HAVE MANUFACTURED SPIN-IN FITTINGS WITH DAMPER, AND MANUAL LOCKING QUADRANT.

3. PROVIDE AN ELECTRONIC PROGRAMMABLE THERMOSTAT FOR EACH AIR HANDLING UNIT. THERMOSTAT SHALL BE HONEYWELL MODEL T7351 WITH SUBBASE (OR EQUAL). PROVIDE WITH TRANSPARENT LOCKING COVERS. THE HIGHEST OPERATING COMPONENT OF THE THERMOSTAT SHALL BE MOUNTED AT 48" MAX. A.F.F. AND IN COMPLIANCE WITH NC ACCESSIBILITY CODE. THERMOSTAT SHALL BE CAPABLE OF CONTROLLING COOLING AND HEATING SYSTEM OPERATION IN COMPLIANCE WITH SECTION C403.2.4 OF THE NC ENERGY CONSERVATION CODE.

4. THE MECHANICAL CONTRACTOR SHALL COORDINATE HIS WORK WITH THAT OF THE OTHER TRADES PRIOR TO THE INSTALLATION OF ANY OF HIS EQUIPMENT, DUCTWORK, OR PIPING.

5. ALL EQUIPMENT, MATERIALS, AND INSTALLATION OF SUCH SHALL BE IN ACCORDANCE WITH ALL LOCAL, STATE, AND NATIONAL CODES. ALL EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S WRITTEN RECOMMENDATIONS. IF THERE IS A CONFLICT IN THE ABOVE REQUIREMENTS, THE MORE STRINGENT SHALL BE USED. ACCESS TO ALL EQUIPMENT SHALL BE PROVIDED IN COMPLIANCE WITH CHAPTER 3 OF THE NORTH CAROLINA MECHANICAL CODE.

6. THE MECHANICAL CONTRACTOR SHALL OBTAIN AND PAY FOR ALL PERMITS, FEES, AND INSPECTIONS REQUIRED FOR HIS WORK.

7. WORKMANSHIP SHALL BE FIRST-CLASS AND PERFORMED BY EXPERIENCED AND SKILLED CRAFTSMEN.

8. REFER TO ARCHITECTURAL PLANS FOR FLOOR PLAN DIMENSIONS, DO NOT SCALE THESE DRAWINGS.

9. COORDINATE EXACT LOCATION OF ALL DIFFUSERS WITH LIGHTS, SPRINKLER HEADS, AND OTHER CEILING MOUNTED DEVICES.

10. THE MECHANICAL CONTRACTOR SHALL PROVIDE AND INSTALL HIS OWN SUPPORT EQUIPMENT. LOCATIONS SHALL BE COORDINATED WITH ALL CONTRACTORS PRIOR TO INSTALLATION.

11. ALL EQUIPMENT SHALL BE LOCATED AND INSTALLED TO PROVIDE MAXIMUM SPACE FOR MAINTENANCE AND SERVICE. ALL EQUIPMENT INSTALLATIONS SHALL ALLOW FOR ALL CODE AND MANUFACTURER REQUIRED CLEARANCES.

12. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL POWER CONNECTIONS TO THE EQUIPMENT PROVIDED UNDER HIS CONTRACT.

13. THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CONTROL WIRING FOR HIS EQUIPMENT.

14. ALL OUTSIDE AIR SUPPLY AND EXHAUST DUCTWORK, FANS, AND EXTERIOR OPENINGS SHALL BE PROVIDED WITH CLASS 1 MOTORIZED DAMPERS IN COMPLIANCE WITH SECTION C403.2.4.3 OF THE NC ENERGY CONSERVATION CODE. GRAVITY DAMPERS MAY BE PERMITTED IN BUILDING LESS THAN 3 STORIES IN HEIGHT OR FOR EXHAUST AIRFLOW OF 300 CFM OR LESS.

15. FOR SPACES LARGER THAN 500 SQUARE FEET, THE CONTRACTOR SHALL PROVIDE CO2 SENSORS AND MOTORIZED DAMPERS ON ALL HVAC SYSTEMS TO PROVIDE DEMAND CONTROLLED VENTILATION IN COMPLIANCE WITH SECTION C403.2.6 OF THE NC ENERGY CONSERVATION CODE UNLESS OTHERWISE NOTED.

16. LINE SUPPLY AND RETURN DUCT WITH DUCT LINER A MINIMUM OF FIVE FEET BEYOND FIRST ELBOW DOWNSTREAM OF DISCHARGE AND INTAKE OF UNIT. DUCT LINER SHALL BE A MINIMUM OF R-6 ACOUSTICAL LINER. INSULATE ALL SUPPLY AND RETURN DUCT DOWN STREAM OF LINED DUCT WITH BLANKET INSULATION. BLANKET INSULATION SHALL A MINIMUM OF R-6 GLASS FIBER WITH FIRE RETARDANT FOL-SCRM KRAFT JACKET. AS AN ALTERNATE, THE MECHANICAL CONTRACTOR MAY LINE RIGID DUCTWORK WITH ACOUSTICAL LINER IN LIEU OF WRAPPING DUCTWORK WITH BLANKET INSULATION. PROVIDE R-8 DUCT INSULATION FOR ANY DUCTWORK LOCATED OUTSIDE OF OUTSIDE OF BUILDING ENVELOPE. ALL INSULATION R-VALUES SHALL BE IN COMPLIANCE WITH SECTION C403.2.9 OF THE NORTH CAROLINA ENERGY CONSERVATION CODE.

17. DUCTWORK AS SHOWN ON THE DRAWINGS IS STRICTLY DIAGRAMMATIC. ALL DUCT SIZES SHOWN ARE FREE AREA. COORDINATE EXACT LOCATION OF ALL DUCTWORK WITH THE BUILDING STRUCTURE AND OTHER TRADES.

18. IT WILL BE THE RESPONSIBILITY OF THE MECHANICAL CONTRACTOR TO ENSURE THAT ITEMS TO BE FURNISHED UNDER HIS CONTRACT WILL FIT THE SPACE AVAILABLE. HE SHALL MAKE NECESSARY FIELD MEASUREMENTS TO ASCERTAIN SPACE REQUIREMENTS, INCLUDING THOSE FOR CONNECTIONS AND SERVICE CLEARANCES. AND SHALL FURNISH AND INSTALL SUCH SIZES AND SHAPES OF EQUIPMENT THAT ARE THE TRUE INTENT AND MEANING OF THESE DRAWINGS AND SPECIFICATIONS.

19. ALL DUCT TO BE CONSTRUCTED OF GALVANIZED STEEL SHEETS IN ACCORDANCE WITH SMACNA GAGES AND STANDARDS. SUPPLY DUCT JOINTS SHALL BE SEALED AIRTIGHT AND SHALL BE IN COMPLIANCE WITH SECTION C403.2.9.1 OF THE NORTH CAROLINA ENERGY CONSERVATION CODE. ALL SQUARE BENDS OR ELBOW FITTINGS SHALL HAVE TURNING VANES. PROVIDE SPLITTER DAMPERS AT SUPPLY TEES AND EXTRACTORS AT ALL SUPPLY AIR BRANCHES. PROVIDE BALANCING DAMPERS IN ALL DUCTS WHERE REQUIRED FOR SYSTEM BALANCING AS SHOWN ON PLANS OR AS REQUIRED.

20. INSTALL FLEXIBLE DUCT CONNECTIONS AT THE SUPPLY AND RETURN DUCTWORK CONNECTIONS OF ALL AIR HANDLING UNITS FOR VIBRATION ISOLATION.

21. PROVIDE FIRE DAMPERS AT ALL DUCT PENETRATIONS THROUGH THE FIRE-RATED WALLS AS SHOWN ON PLANS OR AS REQUIRED. PROVIDE RADIATION DAMPERS AT ALL DIFFUSERS/GRILLES MOUNTED IN FIRE-RATED CEILINGS AND CEILING ASSEMBLIES AS SHOWN ON PLANS OR AS REQUIRED.

22. PROVIDE ACCESS PANELS IN THE DUCTWORK FOR ALL FIRE DAMPERS OR OTHER DUCT MOUNTED EQUIPMENT. LOCATE ACCESS PANEL SO THAT ACCESS TO EQUIPMENT IS EASILY ATTAINED.

23. CONTRACTOR SHALL PROVIDE ENTHALPY CONTROLLED ECONOMIZERS FOR ANY AIR CONDITIONING UNIT OVER 65,000 BTU/H OF COOLING UNLESS OTHERWISE NOTED. ECONOMIZER SHALL CONFORM TO REQUIREMENTS OF SECTION C403.3 OF THE NC ENERGY CONSERVATION CODE.

24. PRIOR TO BIDDING, MECHANICAL CONTRACTOR IS TO VISIT SITE TO FAMILIARIZE HIMSELF WITH EXISTING CONDITIONS AND RESOLVE ANY CONFLICTS BETWEEN EXISTING CONDITIONS AND THESE PLANS WITH THE ENGINEER.

25. PROVIDE A COMPLETE 1-YEAR WARRANTY ON ALL LABOR AND MATERIALS. ALSO, MANUFACTURER'S PUBLISHED 5-YEAR NON PRORATED COMPRESSOR WARRANTY.

26. CONTRACTOR SHALL FURNISH A BOUND SET OF OPERATING AND MAINTENANCE MANUALS FOR ALL EQUIPMENT TO THE OWNER UPON COMPLETION OF PROJECT. MANUALS SHALL INCLUDE ALL ITEMS AS SPECIFIED IN SECTION C408.2.5 OF THE NORTH CAROLINA ENERGY CONSERVATION CODE.

27. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL SYSTEM COMMISSIONING AS REQUIRED PER SECTION C408 OF THE NC ENERGY CONSERVATION CODE. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING STATEMENT OF SYSTEM COMMISSIONING (APPENDIX C1) AS REQUIRED IN SECTION 503.2.9.3 OF THE NORTH CAROLINA ENERGY CONSERVATION CODE. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING STATEMENT OF COMPLIANCE AS REQUIRED

28. OUTSIDE AIR INTAKES SHALL BE LOCATED A MINIMUM OF 10 FEET FROM ALL EXHAUST DISCHARGE AND PLUMBING VENTS.

29. INSTALL ESCUTCHEONS IN ALL PLACES WHERE PIPING PENETRATES A WALL IN AN EXPOSED LOCATION.

30. REPLACE ALL FILTERS JUST PRIOR TO ACCEPTANCE BY THE OWNER.

31. THE MECHANICAL CONTRACTOR SHALL PROVIDE SMOKE DETECTORS PER SECTION 606 OF N.C. MECHANICAL CODE IN THE RETURN OF EXHAUST UNIT TO DE-ENERGIZE UNIT IN THE EVENT OF FIRE. SMOKE DETECTORS SHALL BE U.L. LISTED FOR DUCT INSTALLATION. SUPERVISION OF DUCT DETECTOR SHALL BE PER SECTION 606.4.1. MECHANICAL CONTRACTOR SHALL PROVIDE VISUAL AND AUDIBLE ALARM FOR EACH DETECTOR. CONTRACTOR.

32. MOUNT AIR HANDLING UNIT IN SUCH A WAY THAT ADEQUATE SLOPE IS PROVIDED FOR ALL DRAIN LINES. PIPE CONDENSATE FROM COIL AND DRAIN PAN FULL SIZE TO AN APPROVED PLACE OF DISPOSAL IN COMPLIANCE WITH NCCM, SECTION 307. PROVIDE FLOAT SWITCH IN CONDENSATE PANS TO STOP FAN UPON ACCUMULATION OF CONDENSATE IN PAN.

33. THE MECHANICAL CONTRACTOR SHALL MAKE A COMPLETE REVIEW OF THE MECHANICAL PLANS, INCLUDING THE SCHEDULES AND DETAILS PRIOR TO INSTALLATION OF ANY MECHANICAL SYSTEMS AND SHALL RESOLVE ANY CONFLICTS WITH THE ENGINEER.

34. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL COORDINATE HIS WORK WITH ALL OTHER TRADES. ALL DRAWINGS INDICATE THE GENERAL ARRANGEMENT DESIRED, THE EXACT LOCATIONS AND DETAILS OF CONSTRUCTION MAY BE SUCH THAT VARIANCES ARE REQUIRED. THE DRAWINGS DO NOT SHOW ALL BENDS, OFFSETS, AND FITTINGS THAT MAY BE REQUIRED FOR THE COMPLETE EXECUTION OF THIS CONTRACT. SUCH VARIANCES AND CONTINGENCIES SHALL BE ALLOWED FOR IN THE CONTRACTOR'S BID AND SHALL BE ACCOMPLISHED WITHOUT ADDITIONAL COST TO THE OWNER. PRIOR TO ORDERING EQUIPMENT, THE CONTRACTOR SHALL PREPARE COORDINATION DRAWINGS SHOWING HOW HIS EQUIPMENT IS TO BE LOCATED IN THE SPACE INDICATED. THIS DRAWING SHALL SHOW THE NEW AND EXISTING WORK OF ALL OTHER TRADES. THE CONTRACTOR SHALL CONTACT THE OTHER CONTRACTORS INVOLVED FOR DIMENSIONS, LOCATIONS, AND REQUIRED CLEARANCES OF THE EQUIPMENT THEY INTEND TO PROVIDE FOR THIS JOB. THE AFFORDMENTED COORDINATION DRAWINGS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL.

35. ALL MATERIALS USED SHALL BE NEW AND FREE OF DEFECTS. WHERE TRADE NAMES ARE MENTIONED, THEY ARE GIVEN AS A REFERENCE TO THE QUALITY OF THE APPARATUS REQUIRED. ALL MATERIALS AND EQUIPMENT SHALL BEAR THE UL LABEL OR EQUIVALENT WHERE APPLICABLE. OTHER MAKES MAY BE USED IF APPROVED IN WRITING BY THE ENGINEER. THE CONTRACTOR SHALL SUBMIT A COMPLETE LIST OF MATERIALS AND EQUIPMENT PROPOSED FOR USE IN THIS CONTRACT TO THE ENGINEER WITHIN TEN DAYS FOLLOWING THE AWARD OF CONTRACT. IF SUCH LIST IS NOT SUBMITTED, THE CONTRACTOR SHALL SUPPLY THE MATERIALS AND EQUIPMENT SPECIFIED OR AS DIRECTED BY THE ENGINEER.

36. FLEXIBLE DUCT SHALL BE INSULATED, SOUND ATTENUATING, LOW VELOCITY TYPE AND SHALL COMPLY WITH NFPA 90A AND 90B. FLEXIBLE DUCT SHALL BE U.L. LISTED, CLASS 1 INSULATED TYPE, RATED FOR A MINIMUM OF 4" POSITIVE STATIC PRESSURE AND A MINIMUM OF 1" NEGATIVE STATIC PRESSURE. FLEXIBLE DUCT SHALL BE FACTORY-FORMED, COMPOSED OF SPIRAL WOUND, CORROSION RESISTANT WIRE BONDED TO AN INNER FABRIC LINER, COVERED WITH INSULATION WITH A VAPOR BARRIER. INSULATION R-VALUES SHALL BE PER THE NORTH CAROLINA ENERGY CONSERVATION CODE.

37. ROUTE REFRIGERANT LINES FROM OUTDOOR CONDENSING UNITS IN THE MOST DIRECT PATH TO AIR HANDLER LOCATED ABOVE CEILING. INSULATE WITH FOAM INSULATION. INSULATION SHALL BE IN COMPLIANCE WITH THE NORTH CAROLINA ENERGY CONSERVATION CODE. PROVIDE LONG LINE REFRIGERATION KIT AS REQUIRED.

38. IF FIRE ALARM SYSTEM IS PROVIDED IN BUILDING, THE ELECTRICAL CONTRACTOR SHALL PROVIDE AND WIRE ALL SMOKE DETECTORS. IF FIRE ALARM SYSTEM IS NOT PROVIDED IN BUILDING, THE MECHANICAL CONTRACTOR SHALL PROVIDE AND WIRE SMOKE DETECTORS. REGARDLESS OF WHO PROVIDES DETECTOR, IT SHALL BE THE RESPONSIBILITY OF THE MECHANICAL CONTRACTOR TO INSTALL THE SMOKE DETECTORS IN THE RETURN OF REQUIRED UNITS TO DE-ENERGIZE UNIT IN THE EVENT OF FIRE. SMOKE DETECTORS SHALL BE U.L. LISTED FOR DUCT INSTALLATION. ELECTRICAL CONTRACTOR AND MECHANICAL CONTRACTOR SHALL COORDINATE SMOKE DETECTOR REQUIREMENTS FOR SYSTEM PRIOR TO INSTALLATION.

39. UPON COMPLETION OF THE WORK, A TEST AND BALANCE SHALL BE PERFORMED IN ACCORDANCE WITH "AABC" REQUIREMENTS. AIR FLOW AND STATIC PRESSURE SHALL BE MEASURED AND RECORDED FOR ALL OUTLETS ON EACH SYSTEM. ONE WEEK AFTER THE OWNER HAS OCCUPIED THE BUILDING AND OPENED FOR BUSINESS, THE CONTRACTOR SHALL RE-BALANCE THE SYSTEM ACCORDING TO THE NEEDS OF THE OCCUPANTS. PROVIDE A COMPLETE TEST AND BALANCE REPORT TO THE ENGINEER.

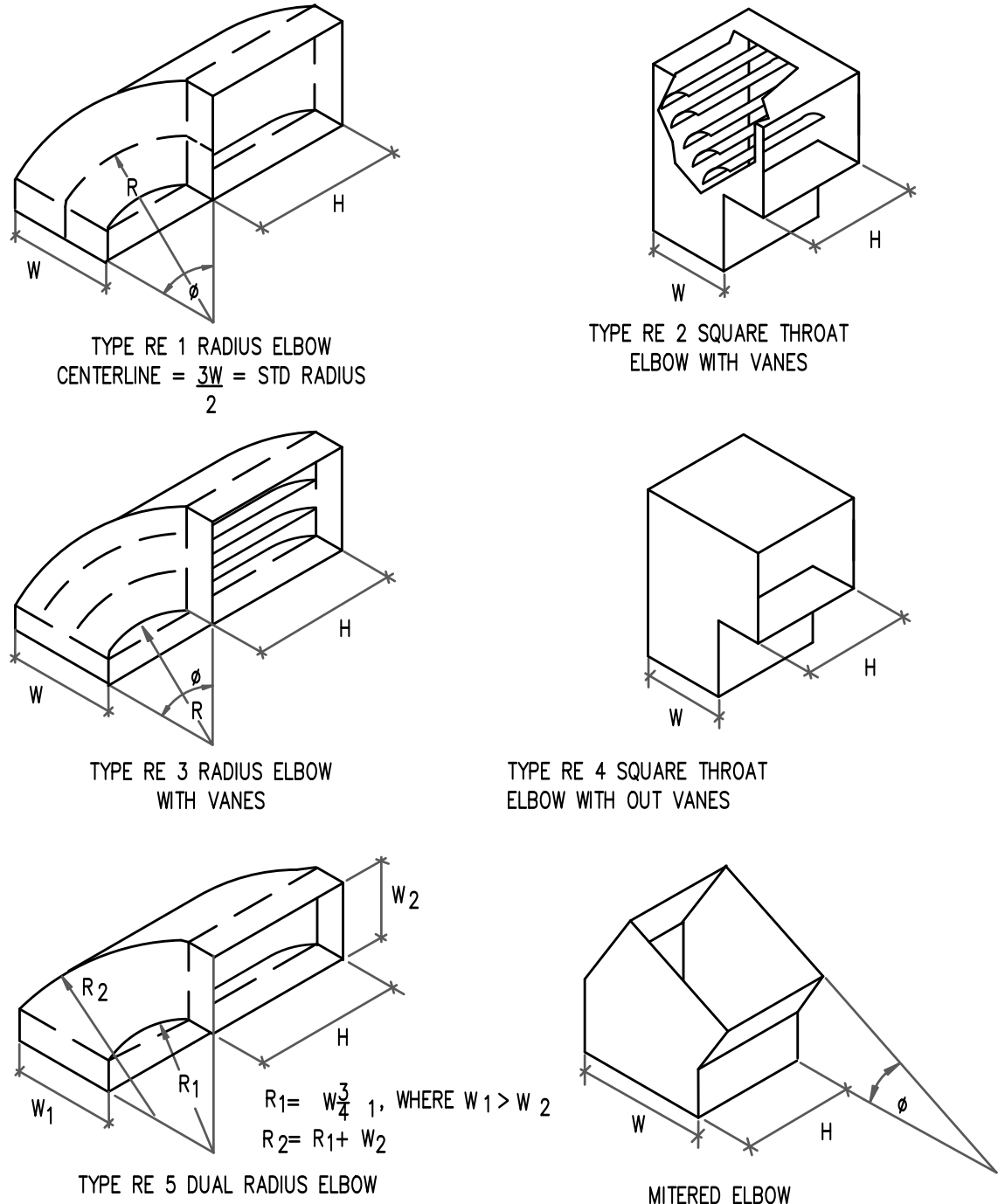
40. AS APPLICABLE, THE CONTRACTOR SHALL VERIFY THE OPERATION OF ALL EXISTING MECHANICAL EQUIPMENT IN THE AREA OF WORK. ALL MEASUREMENTS SHALL BE RECORDED NECESSARY TO ASCERTAIN THE PROPER OPERATION OF THE EQUIPMENT INCLUDING, BUT NOT LIMITED TO, AMPERAGE, GPM FLOW, INLET AND OUTLET TEMPERATURES, AIR FLOW, AND INLET AND OUTLET STATIC PRESSURES. ANY DEFICIENCY IN THE RATED OUTPUT OF THE EQUIPMENT SHALL BE REPORTED TO THE ENGINEER AND BUILDING OWNER. IN ANY CASE, SAID REPORT SHALL BE SUBMITTED TO THE ENGINEER UPON REQUEST.

41. THE CONTRACTOR SHALL, AT THE COMPLETION OF THE WORK, CLEAN, POLISH, AND/OR WASH ALL EXPOSED ITEMS OF MATERIALS, EQUIPMENT, AND FIXTURES IN HIS CONTRACT TO LEAVE SUCH ITEMS BRIGHT AND CLEAN. THE CONTRACTOR SHALL KEEP THE PREMISES CLEAR OF DEBRIS FROM HIS WORK DURING CONSTRUCTION AND LEAVE THE AREA AND BUILDING CLEAN AT COMPLETION OF THE CONTRACT.

42. MECHANICAL AND ELECTRICAL EQUIPMENT SHALL OPERATE WITHOUT OBJECTIONABLE NOISE OR VIBRATION, AS DETERMINED BY THE ENGINEER. IF SUCH OBJECTIONABLE NOISE OR VIBRATION SHOULD BE PRODUCED AND TRANSMITTED TO OCCUPIED PORTIONS OF THE BUILDING, THE CONTRACTOR SHALL MAKE THE NECESSARY CHANGES TO CORRECT THE NOISE OR VIBRATION WITHOUT ADDITIONAL COST TO THE OWNER.

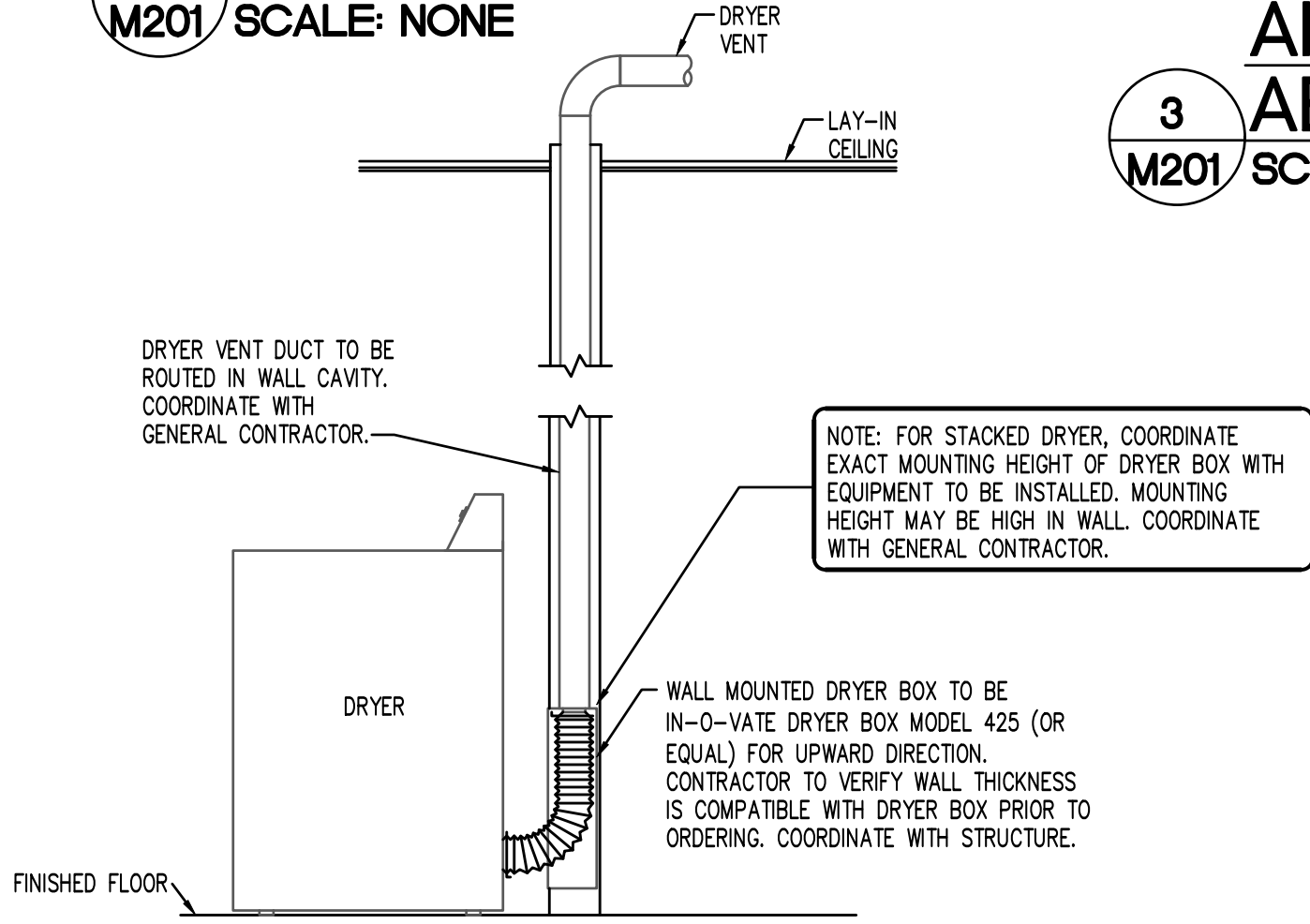
43. ALL AIR HANDLING UNIT SUPPLY FANS SHALL OPERATE CONTINUOUSLY DURING OCCUPIED HOURS.

44. MECHANICAL CONTRACTOR SHALL CONCEAL ALL EXTERIOR PENETRATIONS WHERE POSSIBLE. COORDINATE ALL EXTERIOR PENETRATIONS WITH BUILDING OWNER (TENANT) AND GENERAL CONTRACTOR.



RECTANGULAR SHEETMETAL ELBOWS

1 M201 SCALE: NONE



1 DRYER VENT DETAIL

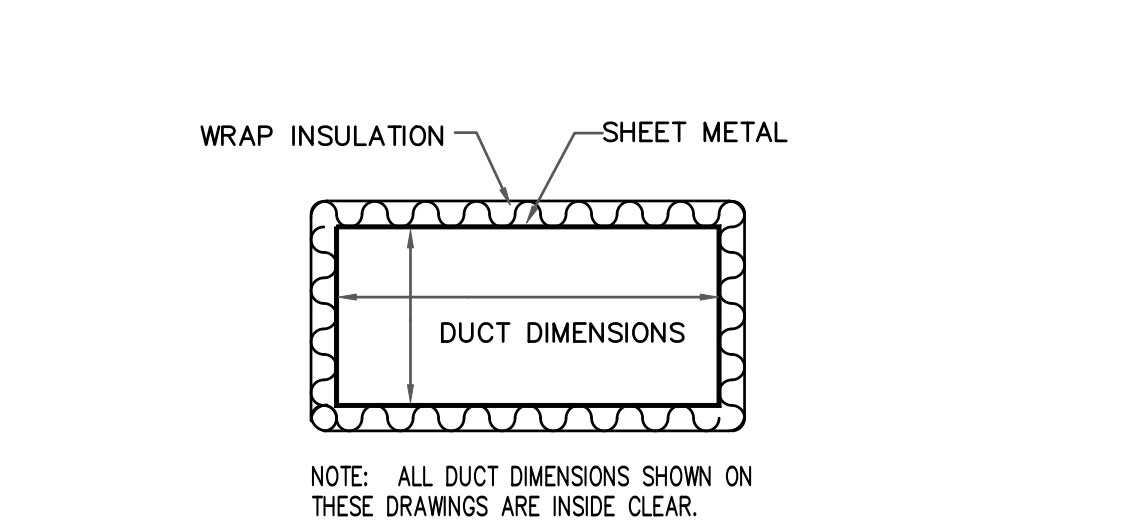
M201 SCALE: NONE

NOTE: COMPLETE DRYER EXHAUST SYSTEM SHALL COMPLY WITH THE NORTH CAROLINA STATE BUILDING CODE: MECHANICAL CODE; SECTION 504

COMPLETE DRYER INSTALLATION SHALL COMPLY WITH THE NORTH CAROLINA STATE BUILDING CODE: MECHANICAL CODE; SECTION 913

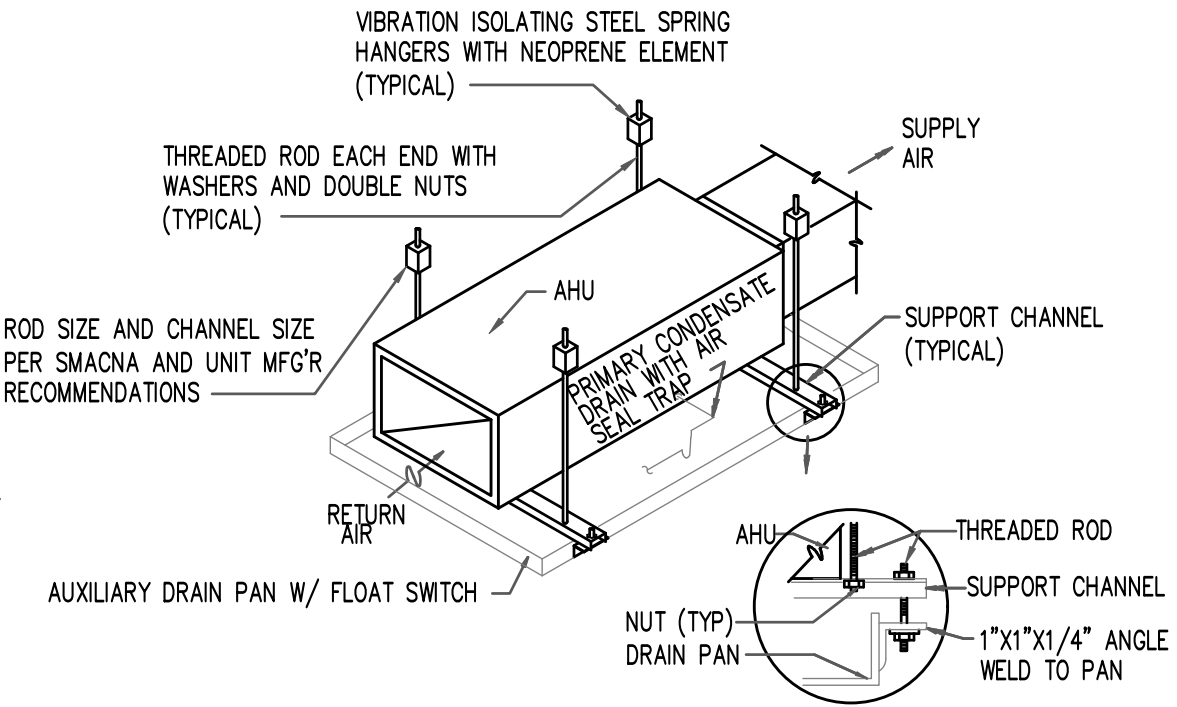
EXHAUST FAN SCHEDULE									
MARK	COOK MODEL	TYPE	CFM	ESP	WATTS	VOLTS/±	RFM	REMARKS	
EF-1	GC-140	CABINET FAN	75	0.25"	70	120/1	1500	ⓧⓧ	
EF-2	GC-140	CABINET FAN	75	0.25"	70	120/1	1500	ⓧⓧ	
EF-3	GC-140	CABINET FAN	75	0.25"	70	120/1	1500	ⓧⓧ	
EF-4	GC-140	CABINET FAN	75	0.25"	70	120/1	1500	ⓧⓧ	
EF-5	GC-140	CABINET FAN	75	0.25"	70	120/1	1500	ⓧⓧ	
EF-6	GC-140	CABINET FAN	75	0.25"	70	120/1	1500	ⓧⓧ	

- FAN CONTROLLED BY WALL MOUNTED CONTROLLER. FAN SHALL BE DIRECT DRIVE. SUPPORT FAN FROM STRUCTURE. PROVIDE FAN WITH BACKDRAFT DAMPER AND SINGLE POINT ELECTRICAL CONNECTION.
- ROUTE 6"Ø EXHAUST DUCT TO EAVES VENT AS SHOWN ON DRAWINGS. PROVIDE WITH COOK MODEL EAVE VENT.



2 PRIMARY DUCT FABRICATION DETAIL

M201 SCALE: NONE



3 AHU HANGER DETAIL ABOVE CEILING

M201 SCALE: NONE

MECHANICAL SYSTEMS AND EQUIPMENT

METHOD OF COMPLIANCE:

- ☐ C401.2 Method 1 (ASHRAE 90.1)
☒ C401.2 Method 2 (Prescriptive)
☐ C401.2 Method 3 (Energy Cost Budget)

Thermal Zone 4A

Exterior Design Conditions

winter dry bulb 16°F
summer dry bulb 90°F
summer wet bulb 75°F

Interior Design Conditions

winter dry bulb 70°F
summer dry bulb 75°F
relative humidity 50%

Building Heating Load New Fitup Space – 50,400 BTU/hr

Building Cooling Load New Fitup Space – 63,900 BTU/hr

Mechanical Spacing Conditioning System

Unitary – Building is served by two new split system air handling units with electric strip auxiliary heat. Efficiencies and outputs for heating and cooling are listed in the schedules – See drawings.

Boiler – Not applicable to this project.

Chiller – Not applicable to this project.

Equipment efficiencies

Efficiencies are listed on equipment schedules – See drawings.

Equipment schedules with motors.

Multispeed motors are used on this project and are included in the efficiency rating of the unit. See drawings for efficiencies.

NCSCB:ENERGY, Section C406 Compliance –

- ☐ C406.2 More Efficient Mechanical Equipment
☒ C406.3 Reduced LPD
☐ C406.4 Enhanced Digital Lighting Controls
☐ C406.5 On-site Renewable Energy
☐ C406.6 Dedicated Outdoor Air System
☐ C406.7 Reduced Energy Use in Service Water Heating
☐ C406.8 Load Fraction
☐ N/A

DESIGNER STATEMENT:

To the best of my knowledge and belief, the design of this building complies with the mechanical system and equipment requirements of the North Carolina State Building, Code, Edition–Energy.

HVAC LEGEND

- ⓧ CEILING LOUVERED SUPPLY DIFFUSER
ⓧ CEILING RETURN GRILLE
ⓧ CEILING EXHAUST GRILLE/FAN

- ① THERMOSTAT
⑤ ZONE SENSOR

- NEW RECTANGULAR/ROUND DUCT

- EXISTING RECTANGULAR/ROUND DUCT

- MANUAL VOLUME DAMPER

- DUCT TAP & FLEX

- SMOKE DETECTOR

- FIRE DAMPER

- DIFFUSER MARK
DIFFUSER CFM

- HOOD MARK

- EXHAUST FAN MARK

- FAN UNIT MARK

- AHU-1 AIR HANDLING UNIT MARK

- HP-1 HEAT PUMP UNIT MARK

- KMAU-1 KITCHEN MAKE UP UNIT MARK

- ONE HOUR RATED BARRIER

- TWO HOUR RATED BARRIER

- OUTSIDE AIR

- CONNECTION TO EXISTING

- GAS REGULATOR

- GAS VALVE

- GAS PIPING

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DURHAM, NC 27701
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JARVIS NC

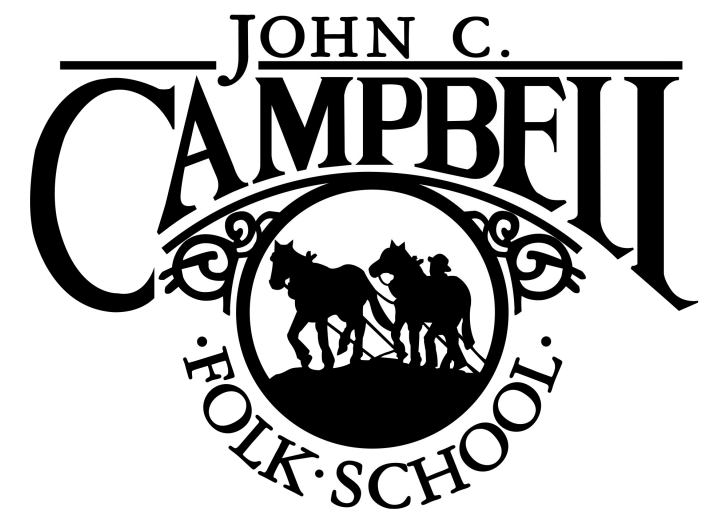
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Kaydos Daniels Engineers
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RALEIGH, NC 27603
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kaydos-daniels.com



NO. DATE DESCRIPTION



ACCESSIBLE HOUSING

ONE FOLK SCHOOL RD
BRASSTOWN, NC 28902
JOB NO: 26162

HVAC DETAILS

M201

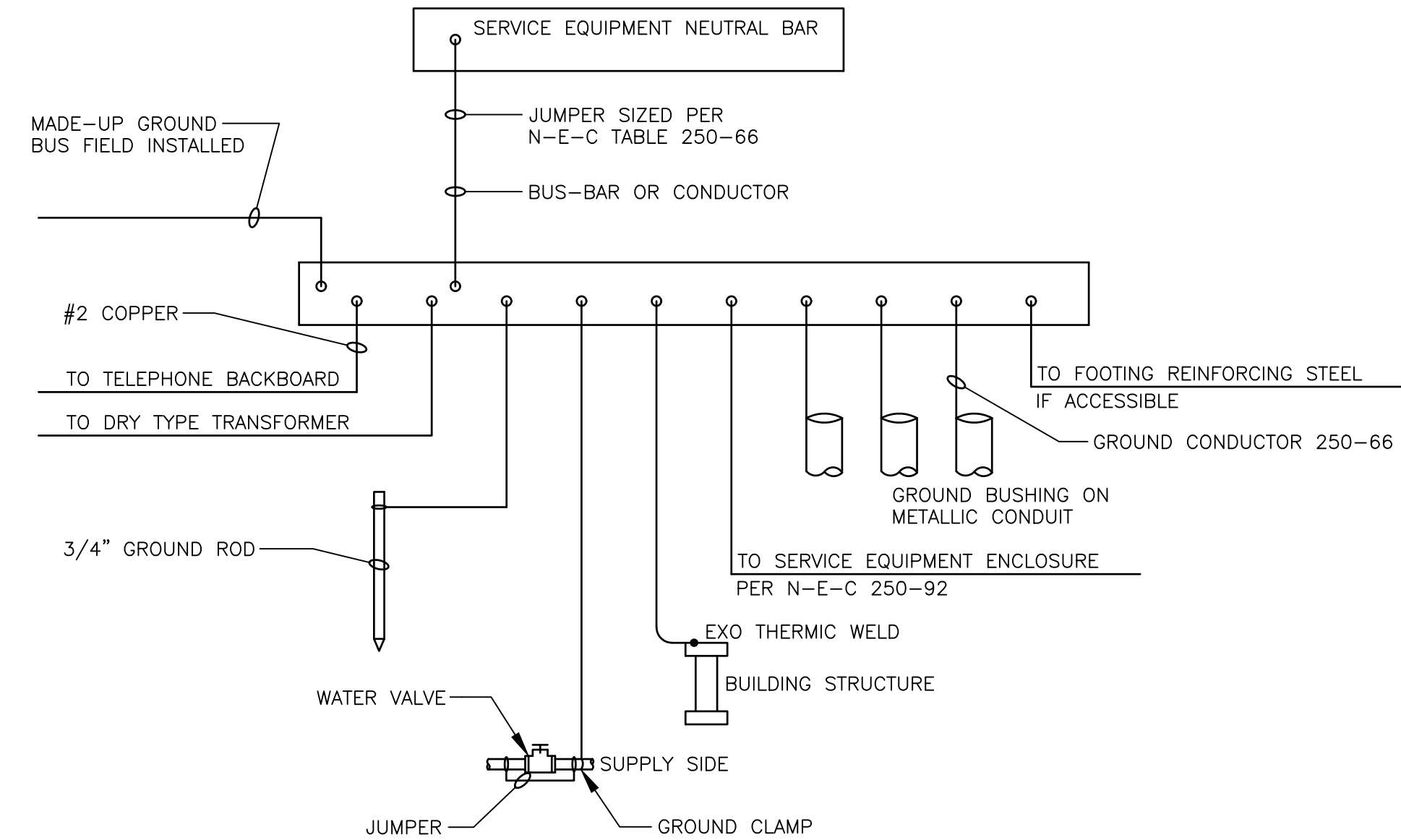
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GENERAL NOTES AND REQUIREMENTS.

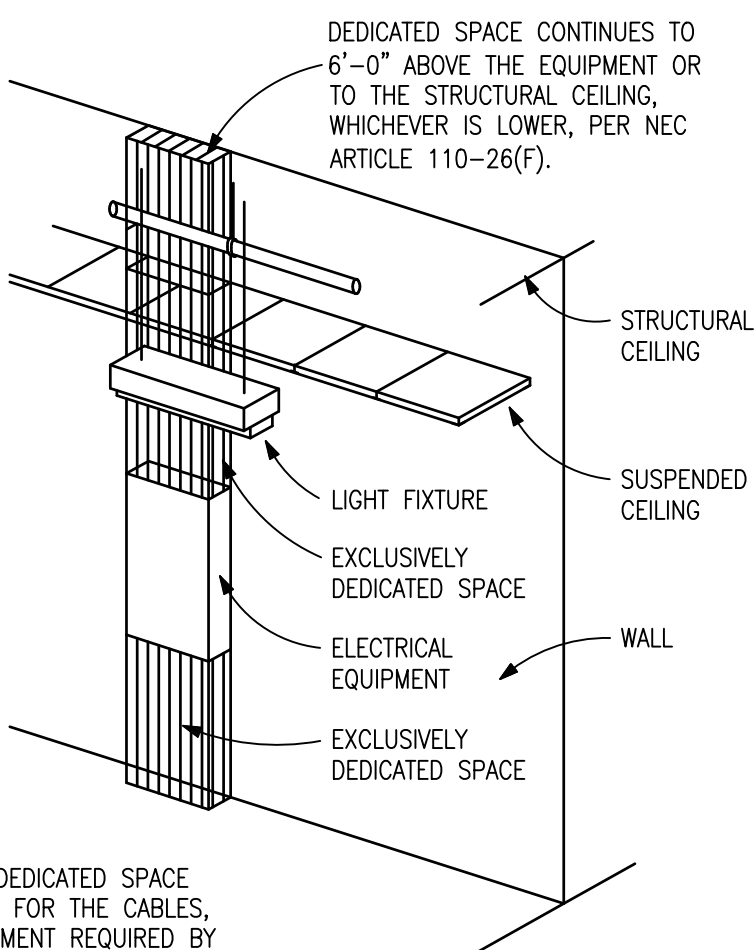
1. WORKMANSHIP SHALL CONFORM TO NECA PUBLICATION "STANDARDS OF INSTALLATION".
2. INSTALLATION SHALL COMPLY WITH 2020 NATIONAL ELECTRICAL CODE, 2018 NC STATE BUILDING CODE, AND ALL REQUIREMENTS OF THE LOCAL INSPECTOR (FURNISH INSPECTION CERTIFICATE). ALL WORK SHALL BE BY LICENSED ELECTRICAL CONTRACTOR.
3. THE CONTRACTOR SHALL REFER TO THE ARCHITECTURAL PLANS FOR FLOOR PLAN DIMENSIONS. DO NOT SCALE THESE DRAWINGS.
4. THE ELECTRICAL CONTRACTOR SHALL COORDINATE ANY AND ALL WORK WITH OTHER TRADES INVOLVED IN THE PROJECT, PRIOR TO INSTALLATION OF ELEC. EQUIPMENT, SO AS TO AVOID CONFLICTS DURING CONSTRUCTION AND TO ALLOW FOR OPTIMUM MAINTENANCE AND WORKING SPACE.
5. ALL BRANCH CIRCUITS SHALL BE IN ZINC-COATED EMT, OR RIGID CONDUIT AS PERMITTED OR REQUIRED BY THE NATIONAL ELECTRICAL CODE. TYPE MC CABLE MAY BE USED AS PERMITTED BY THE NATIONAL ELECTRICAL CODE. SCHEDULE 40 PVC CONDUIT MAY BE USED ONLY FOR THE SECONDARY UNDERGROUND SERVICE, THE UNDERGROUND TELEPHONE SERVICE CONDUIT, AND BRANCH TELEPHONE SYSTEM CONDUITS LOCATED BELOW THE FLOOR SLAB ON GRADE OR BURIED ON THE EXTERIOR OF THE BUILDING, OR IN CONCRETE BLOCK WALLS. ALL CONDUIT SHALL BE A 1/2" MINIMUM SIZE. EMT FITTINGS SHALL BE STEEL COMPRESSION TYPE.
6. PROVIDE 4"WIDE PLASTIC TAPE, MAGNETIC DETECTABLE TYPE, COLORED RED WITH SUITABLE WARNING LEGEND DESCRIBING BURIED ELECTRICAL LINES OR ORANGE DESCRIBING BURIED TELEPHONE LINES.
7. ALL CONDUCTORS SHALL BE COPPER TYPE THHN, OR XHHW, SOLID FOR #10 AWG OR #12 AWG, AND STRANDED FOR ALL LARGER SIZES.
8. ALL WIRING SHALL BE CONCEALED IN WALLS, UNDER SLAB, OR ABOVE SUSPENDED CEILING SPACE.
9. ALL WIRE AND CONDUIT SIZES ARE BASED ON 75°C THHN WIRE UNLESS OTHERWISE NOTED.
10. CONDUITS MAY BE RUN EXPOSED IN MECHANICAL AREAS. CONDUITS SHALL BE RUN PARALLEL OR PERPENDICULAR TO STRUCTURAL ELEMENTS AND SHALL BE RUN IN GROUPS. SEAL ALL PENETRATIONS TIGHT AROUND ALL CONDUITS WHEN PASSING INTO MECHANICAL ROOMS.
11. ALL LIGHT FIXTURES SHALL BE SUPPORTED INDEPENDENTLY OF THE SUSPENDED CEILING SYSTEM.
12. WHERE FIRST OUTLET ON BRANCH CIRCUIT IS GREATER THAN FIFTY (50) FEET FROM THE PANELBOARD, USE #10 AWG MINIMUM TO THE FIRST OUTLET.
13. ALL MOUNTING HEIGHTS ARE GIVEN TO THE CENTERLINE OF THE DEVICE UNLESS OTHERWISE NOTED. RECEPTACLES, DATA AND TELEPHONE OUTLET TO BE MOUNTED 18" AFF UNLESS OTHERWISE NOTED. LIGHT SWITCHES TO BE MOUNTED 48" AFF UNLESS OTHERWISE NOTED.
14. THE LOCATION OF ALL WALL MOUNTED DEVICES, INCLUDING MOUNTING HEIGHTS, SHALL BE FIELD VERIFIED WITH THE ARCHITECT PRIOR TO INSTALLATION.
15. ALL FUSES, DISCONNECT SWITCHES, AND BREAKER SIZES, SHOWN FOR MECHANICAL EQUIPMENT, SHALL BE VERIFIED BEFORE THE PURCHASE OR INSTALLATION OF SAID EQUIPMENT, WITH THE EQUIPMENT SUPPLIER AND THE MECHANICAL CONTRACTOR.
16. ALL DISCONNECT SWITCHES ARE TO BE FUSIBLE TYPE. FUSE IN ACCORDANCE WITH THE NAMEPLATE DATA WITH DUAL ELEMENT TYPE FUSES BY BUSSMAN OR EQUAL.
17. THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL NECESSARY DISCONNECTS, SWITCHES, AND RECEPTACLES UNDER THE ELECTRICAL BID AND SHALL INCLUDE ALL NECESSARY CIRCUITS TO AND FINAL CONNECTIONS TO THE EQUIPMENT PROVIDED BY ALL SUPPLIERS, UNLESS NOTED OTHERWISE BY OTHER DISCIPLINES. COORDINATE CLOSELY.
18. ALL ELECTRICAL EQUIPMENT SHALL BE INSTALLED SO THAT ALL CODE-REQUIRED AND MANUFACTURER-RECOMMENDED SERVICING CLEARANCES ARE MAINTAINED. INSTALLATIONS SHALL FULLY COMPLY WITH NEC 110-26 FOR CLEARANCE REQUIREMENTS.
19. COORDINATE LOCATIONS OF ALL LIGHT FIXTURES WITH THE REFLECTED CEILING PLANS. LIGHT FIXTURES INSTALLED IN MECHANICAL AREAS SHALL AVOID MECHANICAL PIPING, EQUIPMENT, DUCTWORK, ETC.
20. GROUND SHALL BE PER N.E.C. PROVIDE SEPARATE GROUNDING CONDUCTOR FOR ALL CIRCUITS. PROVIDE DRIVEN AND COLD WATER GROUND FOR MAIN SERVICE.
21. GROUND TELEPHONE EQUIPMENT PER NEC.
22. THE ELECTRICAL CONTRACTOR SHALL PATCH ANY WALL, CEILING, OR FLOOR OPENING AND PENETRATIONS RESULTING FROM DEMOLITION OR NEW WORK IN EXISTING AREAS.
23. ALL WIRING SHALL BE CONCEALED IN METALLIC CONDUIT.
24. COMBINE HOMERUNS IN CONDUIT AS DESIRED (3 ON 3-PHASE, 2 ON SINGLE PHASE). DO NOT OVERLOAD NEUTRALS.
25. ALL CIRCUITS SHALL BE TESTED WITH 500 VOLT TESTER PRIOR TO ENERGIZING.
26. ALL WALL OUTLET BOXES SHALL BE STEEL CITY OR RACO
27. RECEPTACLES, SWITCHES, COVERPLATES, ETC. SHALL BE HUBBELL, LEVITON, ACUTY, OR LEGRAND EXCEPT AS SPECIFIED. COLOR SPECIFIED BY ARCHITECT. VERIFY COLOR PRIOR TO PURCHASE. LIGHTING CONTROLS
28. PROVIDE PULL WIRE IN ALL EMPTY CONDUIT.
29. CONDUIT SHALL BE LABELED EVERY TEN FEET.
30. ALL RECEPTACLE AND SWITCH PLATES SHALL BE LEGIBLY MARKED WITH LABEL MARKER TO CLEARLY INDICATE PANELBOARD ORIGIN AND CIRCUIT NUMBER. VERIFY IF LABEL SHOULD BE ON THE INSIDE OR OUTSIDE FACE OF COVERPLATE WITH OWNER/TENANT.
31. PROVIDE PHENOLIC LABELS ON ALL MAJOR EQUIPMENT INCLUDING SWITCHBOARDS, MOTOR CONTROL CENTERS, PANELBOARDS, INDIVIDUAL STARTERS, SAFETY SWITCHES, AND TRANSFORMERS. PROVIDE ENGRAVED THREE-LAYER LAMINATED PLASTIC, WHITE LETTERS ON BLACK BACKGROUND.
32. ALL CIRCUIT BREAKERS IN PANEL SHALL BE SERIES RATED WITH MAIN BREAKER OR FULLY RATED FOR THE SYSTEM.
33. CONTRACTOR SHALL PROVIDE ENGINEER A MINIMUM OF 3 COPIES OF SHOP DRAWINGS FOR LIGHTS, SWITCHGEAR, PANELS, ETC.
34. IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE W/ ALL OTHER TRADES REGARDING VOLTAGES, LOADS, CIRCUIT BREAKERS, ETC. PRIOR TO BEGINNING ANY WORK.
35. AS USED ON THESE DOCUMENTS, THE WORD "PROVIDE" SHALL MEAN TO FURNISH AND INSTALL THE ITEM OR EQUIPMENT AND MAKE THE FINAL CONNECTION AS REQUIRED.
36. PANELS SHALL BE BY SQUARE "D", G.E. AND SIEMENS. PANELS SHALL BE SQUARE "D" TYPE NQOD OR "I-LINE" AS REQUIRED.
37. FOR NEW OR MODIFIED SERVICES, PRIOR TO ENERGIZATION AND AFTER UTILITY FAULT CURRENT CONFIRMATION AT THE DELIVERY POINT, PROVIDE PLAQUE AT SERVICE EQUIPMENT STATING MAXIMUM AVAILABLE FAULT CURRENT AND DATE OF CALCULATION PER NEC 110.24.
38. OPERABLE DEVICES SHALL BE ACCESSIBLE IN COMPLIANCE WITH ANSI A117.1, SECTION 309, OPERABLE PARTS. WHERE GFI RECEPTACLES ARE NOT ACCESSIBLE, PROVIDE GFI BREAKER.
39. RECESSED LIGHTING FIXTURES INSTALLED IN THE BUILDING THERMAL ENVELOPE SHALL BE IC RATED AND LABELED AS MEETING ASTM E283, OR SHALL BE TENTED TO REMOVE THEM FROM THE THERMAL ENVELOPE
40. BRANCH CIRCUITS SERVING EXIT & EMERGENCY FIXTURES SHALL BE CLEARLY LABELED ON THE PANELBOARD DIRECTORY PER NEC 110.22(A), 408.4 & 700.12(i).
41. UPON PROJECT COMPLETION, THE EC SHALL PROVIDE TYPED CIRCUIT DIRECTORIES FOR ALL NEW AND ALTERED PANELBOARDS WITH CIRCUIT DESIGNATIONS COMPLYING WITH THE REQUIREMENTS OF NEC 408.4(A).
42. ALL EXIT AND EMERGENCY LIGHTING SHALL BE FED FROM LOCAL BRANCH CIRCUIT, UNSWITCHED AND HAVE A MINIMUM OF 90 MINUTE BATTERY BACKUP PER NEC 700.12(i)(2).
43. ALL ELECTRICAL MATERIALS, DEVICES, APPLIANCES AND EQUIPMENT SHALL BE LABELED AND LISTED BY A THIRD PARTY AGENCY. THE THIRD PARTY AGENCY SHALL BE AMONG THOSE ACCEPTABLE TO THE NC BUILDING CODE COUNCIL TO LABEL ELECTRICAL AND MECHANICAL EQUIPMENT.

ABBREVIATIONS

A	AMPS, AMPERES	KVA	KILOVOLT-AMPERES
AIC	AMPS INTERRUPTING CURRENT	LTG	LIGHTING
ATS	AUTOMATIC TRANSFER SWITCH	MC	METAL CLAD CABLE
AF	AMP FUSE	MCA	MINIMUM CIRCUIT AMPACITY
AFC	ABOVE FINISHED CEILING	MCB	MAIN CIRCUIT BREAKER
AFF	ABOVE FINISHED FLOOR	MLO	MAIN LUGS ONLY
AFG	ABOVE FINISHED GRADE	NA	NOT APPLICABLE
AHJ	AUTHORITY HAVING JURISDICTION	NCBSC	NORTH CAROLINA STATE BUILDING CODE
BRKR	CIRCUIT BREAKER	NEC	NATIONAL ELECTRICAL CODE
BLDG	BUILDING	NEMA	NATIONAL ELECTRICAL MANUFACTURER'S ASSOC.
C	CONDUIT	NF	NON-FUSED
CKT	CIRCUIT	NL	NIGHT LIGHT -- UNSWITCHED
CLG	CEILING	NTS	NOT TO SCALE
CTR	COUNTER -- DEVICE MOUNTED ABOVE	MC	MECHANICAL CONTRACTOR
DISC	DISCONNECT SWITCH	P	POLES
E	EXISTING TO REMAIN	PC	PLUMBING CONTRACTOR
EC	ELECTRICAL CONTRACTOR	PH	PHASE
ECB	ENCLOSED CIRCUIT BREAKER	PNL	PANELBOARD
EF	EXHAUST FAN	R	RELOCATED
EM	EMERGENCY	SW	SHOW WINDOW RECEP, 18" MAX ABOVE WINDOW
EMT	ELECTRICAL METALLIC TUBING	T	TAMPER RESISTANT RECEPTACLE
ETR	EXISTING TO REMAIN	UL	UNDERWRITER'S LABORATORIES
EX	EXISTING	ULSE	UL SERVICE ENTRANCE
FA	FIRE ALARM	UON	UNLESS OTHERWISE NOTED
GC	GENERAL CONTRACTOR	V	VOLTS
GFCI	GROUND FAULT CURRENT INTERRUPTER	W	WIRE
GP	GROUND	W/	WITH
HP	HORSEPOWER	W/O	WITHOUT
IMC	INTERMEDIATE METAL CONDUIT	WP	WEATHERPROOF
JB	JUNCTION BOX		
KW	KILOWATT		



4 SERVICE EQUIPMENT GROUNDING DETAIL
E001 SCALE: NTS



NOTE:
THIS FIGURE ILLUSTRATES THE ADDITIONAL EXCLUSIVELY DEDICATED SPACE REQUIRED OVER AND UNDER THE ELECTRICAL EQUIPMENT FOR THE CABLES, RACEWAYS, ETC... TO AND FROM THE ELECTRICAL EQUIPMENT REQUIRED BY SECTION 110.26(F) OF THE NATIONAL ELECTRICAL CODE.

1 DEDICATED SPACE FOR ELECTRICAL EQUIPMENT
E001 SCALE: NTS

TABLE "A" WORKING CLEARANCES				
VOLTAGE TO GROUND, NOMINAL	CONDITION	MINIMUM CLEAR DISTANCE (FEET)		
		1	2	3
0-150 151-600		3	3	3
		3	3 1/2	4

- WHERE THE "CONDITIONS" ARE AS FOLLOWS:
- EXPOSED LIVE PARTS ON ONE SIDE AND NO LIVE OR GROUNDED PARTS ON THE OTHER SIDE OF THE WORKING SPACE, OR EXPOSED LIVE PARTS ON BOTH SIDES EFFECTIVELY GUARDED BY SUITABLE WOOD OR OTHER INSULATING MATERIALS. INSULATED WIRE OR INSULATED BUSBARS OPERATING AT NOT OVER 300 VOLTS SHALL NOT BE CONSIDERED LIVE PARTS.
 - EXPOSED LIVE PARTS ON ONE SIDE AND GROUNDED PARTS ON THE OTHER SIDE.
 - EXPOSED LIVE PARTS ON BOTH SIDES OF THE WORK SPACE (NOT GUARDED AS PROVIDED IN CONDITION 1) WITH THE OPERATOR BETWEEN.

NOTE:
THIS FIGURE ILLUSTRATES THE WORKING SPACE IN FRONT OF ELECTRICAL EQUIPMENT REQUIRED BY SECTION 110.26 OF THE NATIONAL ELECTRICAL CODE.

2 WORKING CLEARANCE FOR ELECTRICAL EQUIPMENT
E001 SCALE: NTS

ELECTRICAL SYSTEM AND EQUIPMENT (SECTION C405)

METHOD OF COMPLIANCE SECTION C405.1 ■

LIGHTING SCHEDULE

LAMP TYPE REQUIRED IN FIXTURE
NUMBER OF LAMPS IN FIXTURE
BALLAST TYPE USED IN FIXTURE
NUMBER OF BALLASTS IN FIXTURE
TOTAL WATTAGE PER FIXTURE
TOTAL INTERIOR WATTAGE SPECIFIED VS ALLOWED: 1.5KW VS 1.5KW
TOTAL EXTERIOR WATTAGE SPECIFIED VS ALLOWED: 0.2KW VS 0.9KW

SEE LIGHTING
FIXTURE SCHEDULE

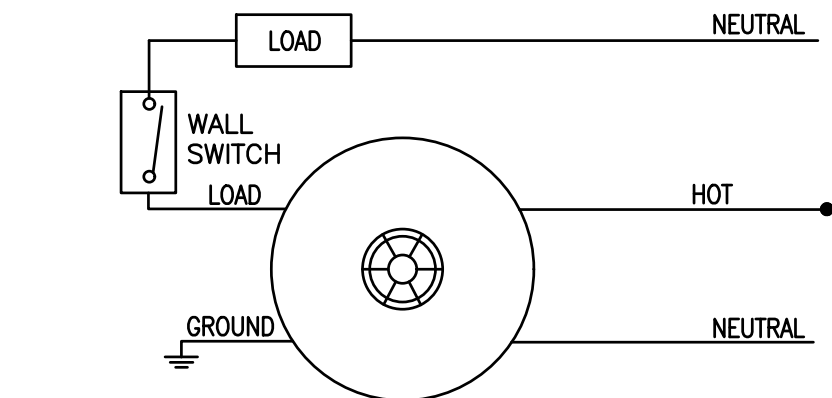
ADDITIONAL EFFICIENCY PACKAGE OPTIONS

- C406.2 MORE EFFICIENT HVAC EQUIPMENT PERFORMANCE
- C406.3 REDUCED LIGHTING POWER DENSITY
- C406.4 ENHANCED DIGITAL LIGHTING CONTROLS
- C406.5 ON-SITE RENEWABLE ENERGY
- C406.6 DEDICATED OUTDOOR AIR SYSTEM
- C406.7 REDUCED ENERGY USE IN SERVICE WATER HEATING

DESIGNER STATEMENT:

TO THE BEST OF MY KNOWLEDGE AND BELIEF, THE DESIGN OF THIS BUILDING COMPLIES WITH THE ELECTRICAL SYSTEM AND EQUIPMENT REQUIREMENTS OF THE NORTH CAROLINA STATE BUILDING CODE, ENERGY CODE 2018 EDITION

NAME: ANGUS M. CLARK PE
TITLE: ELECTRICAL ENGINEER



OCC. SENSOR SWITCH
WIRING DIAGRAM (TYP.)
3 E001 SCALE: NTS

- HOMERUN TO POWER SOURCE, 2#12,#12G 1/2" UON
- BRANCH CIRCUIT WIRING CONCEALED IN WALLS AND CEILINGS
- BRANCH CIRCUIT WIRING CONCEALED UNDER FLOOR OR UNDERGROUND
- RECESSED LIGHT FIXTURE, REFER TO LUMINAIRE SCHEDULE
- DOWNLIGHT FIXTURE, REFER TO LUMINAIRE SCHEDULE
- WALL MOUNTED LIGHT FIXTURE, REFER TO LUMINAIRE SCHEDULE
- SURFACE MOUNTED LIGHT FIXTURE, REFER TO LUMINAIRE SCHEDULE
- EXIT SIGN, DIRECTIONAL ARROWS AS INDICATED. REFER TO LUMINAIRE SCHEDULE
- EMERGENCY LIGHT, REFER TO LUMINAIRE SCHEDULE
- EXIT/EMERGENCY LIGHT COMBINATION, REFER TO LUMINAIRE SCHEDULE
- DUPLEX RECEPTACLE
- QUADRUPLUX RECEPTACLE
- SIMPLEX RECEPTACLE, AMP RATING AS NOTED, OR MATCH BREAKER SIZE
- GFCI RECEPTACLE
- WEATHERPROOF WHILE N USE GFCI RECEPTACLE
- TAMPER RESISTANT RECEPTACLE
- SHOW WINDOW RECEPTACLE MOUNTED 18" MAX ABOVE WINDOW
- FLUSH MOUNTED FLOOR RECEPTACLE, CLOSED COVER WHILE-IN-USE
- FLUSH MOUNTED RECEPTACLE AND DATA, CLOSED COVER WHILE-IN-USE
- JUNCTION BOX FOR POWER CONNECTION
- EQUIPMENT POWER CONNECTION
- FUSED DISCONNECT SWITCH
- NON-FUSED DISCONNECT SWITCH
- PANELBOARD
- DRY TYPE TRANSFORMER
- SINGLE POLE SWITCH
- THREE WAY SWITCH
- FOUR WAY SWITCH
- WALL MOUNTED DUAL TECH OCCUPANCY SENSOR SWITCH (LINE VOLTAGE)
- CEILING OR WALL MOUNTED DUAL TECH OCCUPANCY SENSOR (LINE VOLTAGE)
- DIMMER SWITCH. 1500W SLIDER TYPE
- DIMMER SWITCH WITH DUAL TECHNOLOGY OCCUPANCY SENSOR
- WALL MOUNTED DECORATOR DIGITAL TIMER SWITCH WITH ON/OFF BUTTON, 48" AFF, 120/277V, 24HR/7-DAY, ASTRONOMICAL, PROGRAMMABLE. INTERMATIC E1600 SERIES OR EQUAL.
- FAN/LIGHT SWITCH, COMPATIBLE WITH MANUFACTURER.
- LIGHTING CONTACTOR, MECHANICALLY HELD
- LIGHTING CONTROL PANEL
- COMBINATION TELEPHONE/DATA OUTLET, EMPTY SINGLE GANG BOX WITH 3/4" C STUBBED ABOVE CEILING.
- CABLE TV OUTLET, EMPTY SINGLE GANG BOX WITH 3/4" C STUBBED ABOVE CEILING. COORDINATE EXACT MOUNTING HEIGHT WITH GC PRIOR TO ROUGH-IN.
- CARD READER ROUGH-IN, WITH EMPTY 3/4" C STUBBED ABOVE CEILING
- PHOTOCELL, MOUNT WITH SENSOR FACING NORTH, EXACT LOCATION TO BE DETERMINED



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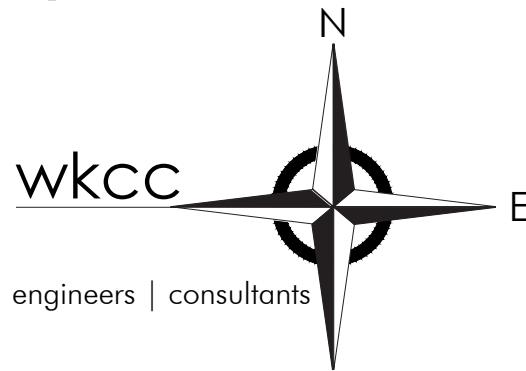
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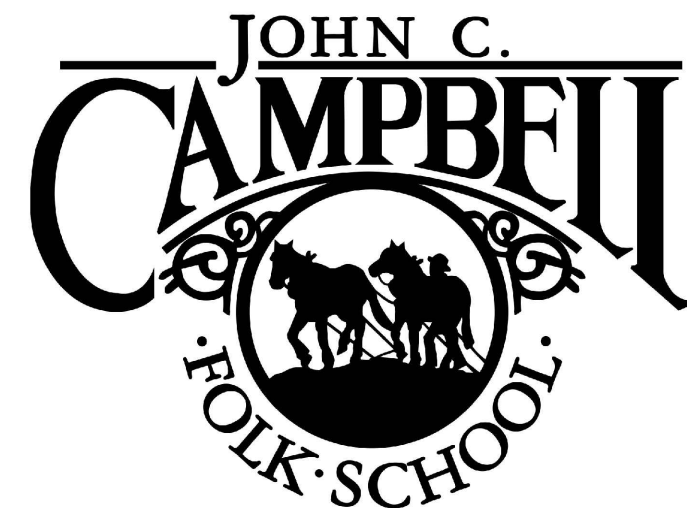
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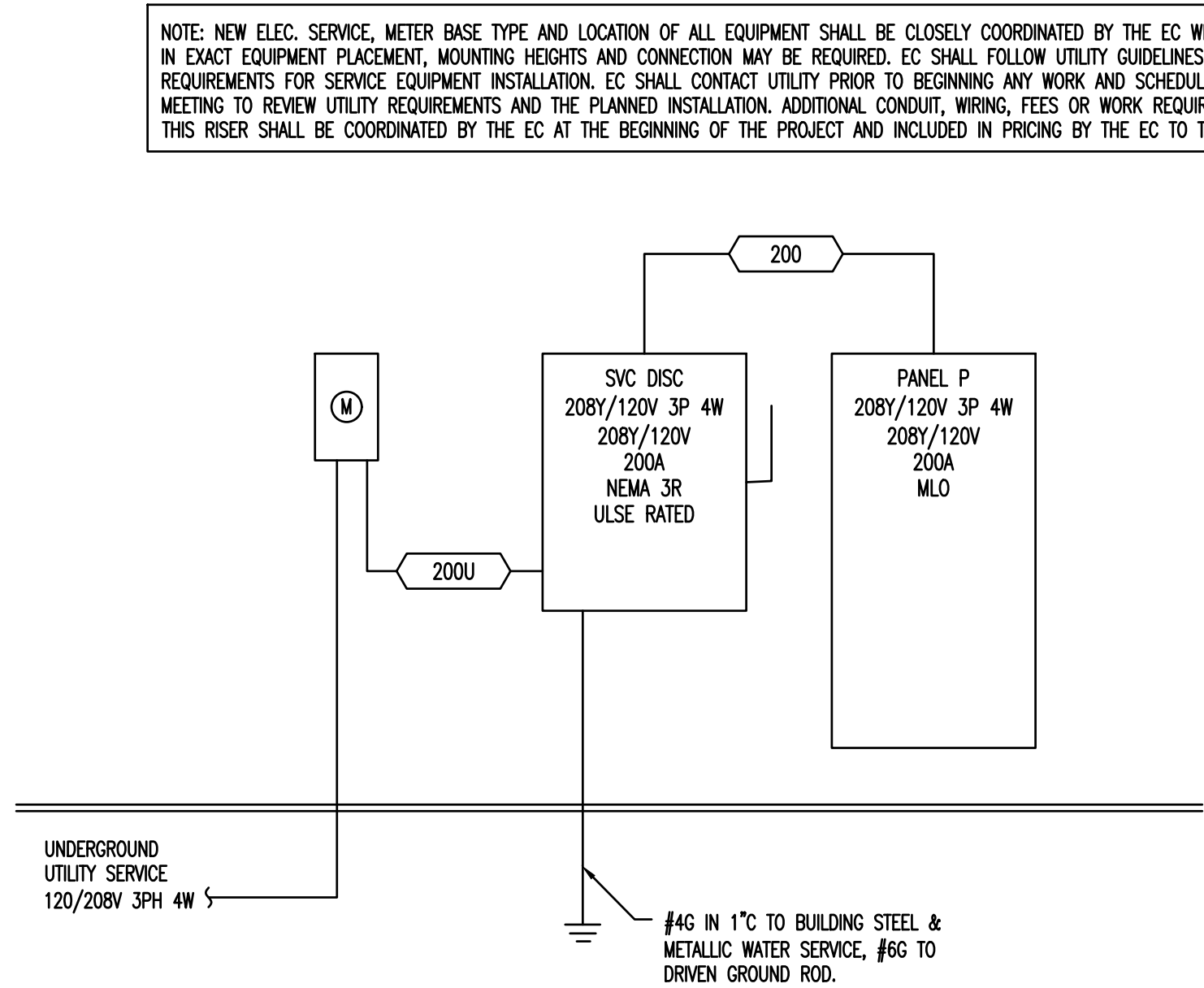
ELECTRICAL
COVER SHEET

E001

08.26.26

P											
ROOM ELEC/DATA MOUNTING SURFACE FED FROM DISC NOTE				VOLTS 208Y/120V 3P 4W BUS AMPS 200 NEUTRAL 100%				AIC 22,000 MAIN BKR MLO LUGS STANDARD			
CKT #	CKT BKR	CIRCUIT DESCRIPTION	LOAD KVA			CKT #	CKT BKR	CIRCUIT DESCRIPTION	LOAD KVA		
			A	B	C				A	B	C
1	40/2	HP-2	2.14			2	30/3	EWI	2.00		
3				2.14		4				2.00	
5	50/3	AHU-2			4.07	6					2.00
7			4.07			8	20/1	*AF RECEPTACLE	0.72		
9				4.07		10	20/1	*AF RECEPTACLE		0.90	
11	40/2	HP-1			2.14	12	20/1	*AF RECEPTACLE			0.90
13			2.14			14	20/1	*AF RECEPTACLE	0.90		
15	50/3	AHU-1		4.07		16	20/1	*AF RECEPTACLE		0.90	
17				4.07	4.07	18	20/1	*AF RECEPTACLE			0.72
19			4.07			20	20/1	*AF RECEPTACLE	1.08		
21	20/1	*AF FAN, LIGHTING		0.73		22	20/1	*HL FACP		0.25	
23	20/1	*AF EF1, EF2, EF3, FAN, LIGHTING			0.58	24	20/1	*GFI WASHER			1.20
25	20/1	*AF EF4, EF5, EF6, FAN, LIGHTING	0.58			26	30/2	*GFI DRYER	2.50		
27	20/1	*AF RECEPTACLE		0.36		28				2.50	
29	20/1	*AF RECEPTACLE			0.72	30	20/1	*AF RECEPTACLE			1.08
31	20/1	*AF RECEPTACLE	0.18			32	20/1	*AF RECEPTACLE, RP	0.82		
33	20/1	*AF RECEPTACLE		0.18		34	20/1	*AF SPARE		0.00	
35	20/1	*AF RECEPTACLE			0.18	36	20/1	*AF REFRIGERATOR			1.20
37	20/1	*AF RECEPTACLE	0.18			38	20/1	*AF SPARE	0.00		
39	20/1	*AF RECEPTACLE		0.18		40	20/1	*AF SPARE		0.00	
41	20/1	*AF RECEPTACLE			0.18	42	20/1	*AF SPARE			0.00
43	-/1	SPACE	0.00			44	-/1	SPACE	0.00		
45	-/1	SPACE		0.00		46	-/1	SPACE		0.00	
47	-/1	SPACE			0.00	48	-/1	SPACE			0.00
49	-/1	SPACE	0.00			50	-/1	SPACE	0.00		
51	-/1	SPACE		0.00		52	-/1	SPACE		0.00	
53	-/1	SPACE			0.00	54	-/1	SPACE			0.00
TOTAL CONNECTED KVA BY PHASE									21.38	18.28	19.04
			CONN KVA	CALC KVA					CONN KVA	CALC KVA	
LIGHTING			1.47	1.84	(125%)	CONTINUOUS			6.25	7.81	(125%)
LARGEST MOTOR			4.28	1.07	(25%)	NONCONTINUOUS			7.40	7.40	(100%)
MOTORS			0.52	0.52	(100%)	HEATING			31.15	31.15	(100%)
RECEPTACLES			10.08	10.04	(50%>10)	COOLING			10.38	0.00	(0%)
						TOTAL LOAD			59.84		
						BALANCED 3-PHASE LOAD			166.09 A		

- GENERAL PANELBOARD NOTES:
- EXISTING LOADS ACCOUNTED FOR BY METERED DEMAND.
 - *HL - INDICATES HANDLE LOCKING DEVICE, LOCKED IN THE "ON" POSITION.
 - PROVIDE BLANK FILLER COVERS OVER EMPTY BREAKER SLOTS.
 - ALL UNUSED BREAKERS SHALL BE TURNED TO THE "OFF" POSITION & LABELED AS "SPARES" ACCORDINGLY.
 - *AF - INDICATES ARC FAULT CIRCUIT INTERRUPTER BREAKER.
 - ALL 120V, SINGLE-PHASE, 15- & 20- AMPERE BRANCH CIRCUITS SUPPLYING OUTLETS OR DEVICES SHALL BE PROTECTED BY ARC-FAULT CIRCUIT-INTERRUPTER PER NEC 210.12.
 - PROVIDE FOUR SPARE CONDUITS FROM TOP OF EACH RECESSED PANELBOARD TO AN ACCESSIBLE LOCATION ABOVE THE CEILING.



1 RISER DIAGRAM

E301 SCALE: NTS

NOTE: UPON PROJECT COMPLETION, THE EC SHALL PROVIDE TYPED CIRCUIT DIRECTORIES FOR ALL NEW AND ALTERED PANELBOARDS WITH CIRCUIT DESIGNATIONS COMPLYING WITH THE REQUIREMENTS OF NEC 408.4(A).

FEEDER SCHEDULE

ID	FEEDER AMPS	CONDUIT AND FEEDER
200	200	2" C, 3#3/0, #3/ON, #6G
200U	200	2" C, 3#3/0, #3/ON

SIZING METHOD: COPPER, 60°C #12 THROUGH #1, 75°C 1/0 AND ABOVE.

PER NEC 110.24, THE SERVICE EQUIPMENT ENCLOSURE(S) SHALL BE LEGIBLY MARKED IN THE FIELD TO INDICATE THE AVAILABLE FAULT CURRENT. THE ELECTRICAL CONTRACTOR SHALL OBTAIN, FROM THE POWER COMPANY, THE ACTUAL AVAILABLE FAULT CURRENT AT THE POINT OF DELIVERY. THE CONTRACTOR SHALL CONTACT THE ENGINEER WITH THIS VALUE AND THE VERIFIED LENGTH OF CONDUCTORS RUN FROM THE POINT OF DELIVERY TO THE SERVICE ENCLOSURE FOR CALCULATIONS OF THE AVAILABLE FAULT CURRENT. THE RESULTING CALCULATED VALUE SHALL BE MARKED ON THE EXTERIOR OF THE SERVICE ENCLOSURE ON AN ENGRAVED PLACARD THAT SHALL READ AS FOLLOWS:

AVAIL. FAULT CURRENT _____
DATE CALCULATED _____

LUMINAIRE SCHEDULE								
CALLOUT	SYMBOL	DESCRIPTION	MODEL	LAMP	INPUT WATTS	VOLTS	MOUNTING	NOTE 1
A	○	LED LIGHT FIXTURE	LITHONIA LDN6-AL02-SWW1-LO6AR-LSS-MVOLT-UGZ1	LED	25	120V 1P 2W	RECESSED	
B	○	LED LIGHT FIXTURE (WET LISTED/SHOWER)	LITHONIA LDN6-AL02-SWW1-LO6AR-LSS-MVOLT-UGZ1-WL	LED	20	120V 1P 2W	RECESSED	
C	○	LED LIGHT FIXTURE	SELECTED BY ARCHITECT, INSTALLED BY EC REFER TO ARCHITECTURAL DWGS & SCHEDULE	LED	20	120V 1P 2W	RECESSED	
D	○	LED LIGHT FIXTURE	SELECTED BY ARCHITECT, INSTALLED BY EC REFER TO ARCHITECTURAL DWGS & SCHEDULE	LED	50	120V 1P 2W	RECESSED	
E	○	LED LIGHT FIXTURE	SELECTED BY ARCHITECT, INSTALLED BY EC	LED	50	120V 1P 2W	RECESSED	
F	✕	INTERIOR CEILING FAN	SELECTED BY ARCHITECT, INSTALLED BY EC REFER TO ARCHITECTURAL DWGS & SCHEDULE	FAN / LED	20 20	120V 1P 2W	CEILING	
G	✕	EXTERIOR CEILING FAN	SELECTED BY ARCHITECT, INSTALLED BY EC REFER TO ARCHITECTURAL DWGS & SCHEDULE	FAN LED	23 18	120V 1P 2W	CEILING	
H	⌚	LED VANITY LIGHT FIXTURE	SELECTED BY ARCHITECT, INSTALLED BY EC REFER TO ARCHITECTURAL DWGS & SCHEDULE	LED	30	120V 1P 2W	WALL	
J	⌚	LED EXTERIOR WALL SCONCE	SELECTED BY ARCHITECT, INSTALLED BY EC REFER TO ARCHITECTURAL DWGS & SCHEDULE	LED	50	120V 1P 2W	WALL	
XC	⊕	EXIT / EMERGENCY LIGHT	COMPASS CCR	LED	4	120V 1P 2W	WALL/CEILING	UNSWITCHED
XX	⌚	EMERGENCY LIGHT	LITHONIA ELM4L	LED	1	120V 1P 2W	WALL/CEILING	UNSWITCHED
XXT	⌚	EXTERIOR EMERGENCY LIGHT	LITHONIA AFF-OEL-UVOLT-LTP-SRDT-FCI-CW	LED	12	120V 1P 2W	WALL/CEILING	UNSWITCHED

- GENERAL NOTES:
- SUBSTITUTION OF FIXTURES OF EQUAL QUALITY SHALL BE SUBMITTED FOR APPROVAL. ALL FINAL FIXTURE TYPES, FINISHES AND ANY SUBSTITUTIONS SHALL BE REVIEWED/APPROVED BY ARCHITECT PRIOR TO RELEASE.
 - ALL EXIT, EMERGENCY & NIGHT LIGHTS (NL) SHALL BE CONNECTED "UNSWITCHED" TO LIGHTING CIRCUIT SERVING ROOM WHERE THEY ARE LOCATED.
 - REFER TO ARCHITECTURAL CEILING PLAN & SCHEDULES FOR ADDITIONAL REQUIREMENTS.

EQUIPMENT SCHEDULE

CALLOUT	SYMBOL	NEMA	VOLTAGE	BREAKER	CIRCUIT	MCA	MOCP	WIRING	NOTE 1
AHU-1	⌚		208V 3P	50/3	P-15,17,19	43.5	50	3/4" C, 3#6, #10G	
AHU-2	⌚		208V 3P	50/3	P-5,7,9	43.5	50	3/4" C, 3#6, #10G	
DRYER	⊖		208/120V 2P	30/2	P-26,28			1/2" C, 2#10, #10N, #10G	
EF1	⊖		120V 1P	20/1	P-23			1#10, #10N, #10G	
EF2	⊖		120V 1P	20/1	P-23			1#10, #10N, #10G	
EF3	⊖		120V 1P	20/1	P-23			1#10, #10N, #10G	
EF4	⊖		120V 1P	20/1	P-25			1#10, #10N, #10G	
EF5	⊖		120V 1P	20/1	P-25			1#10, #10N, #10G	
EF6	⊖		120V 1P	20/1	P-25			1#10, #10N, #10G	
EWI	⌚		208V 3P	30/3	P-2,4,6			1/2" C, 3#10, #10G	
HP-1	⌚	NEMA 3R	208V 2P	40/2	P-11,13	25.7	40	1/2" C, 2#10, #10G	
HP-2	⌚	NEMA 3R	208V 2P	40/2	P-1,3	25.7	40	1/2" C, 2#10, #10G	
RP	⌚		120V 1P	20/1	P-32			1#12, #12N, #12G	

GENERAL NOTE: EC SHALL FIELD VERIFY BREAKER & WIRE SIZES WITH EQUIPMENT NAMEPLATES PRIOR TO ROUGH-INS.



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ALLIANCE ARCHITECTURE

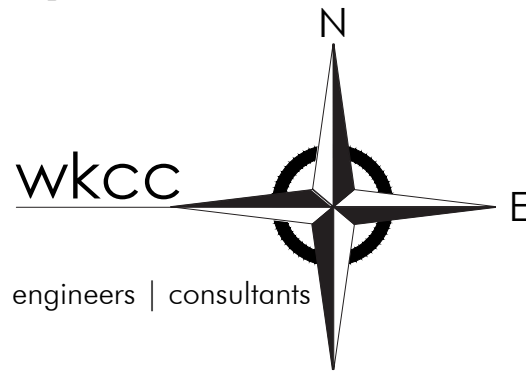
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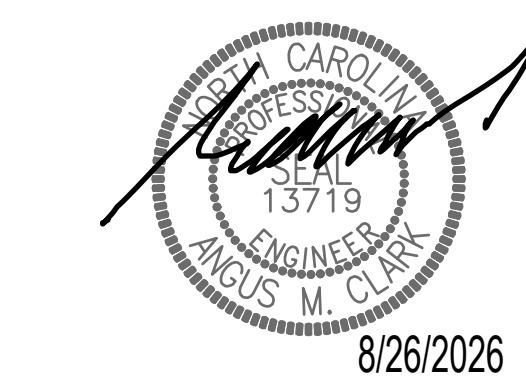
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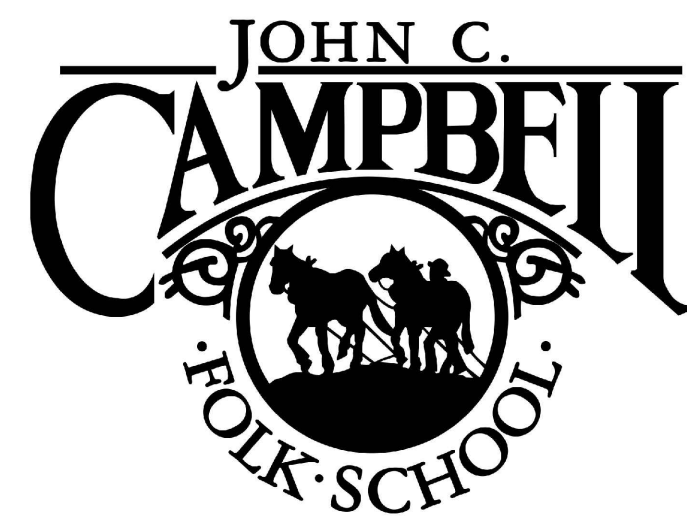
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ISSUANCES
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OWNER

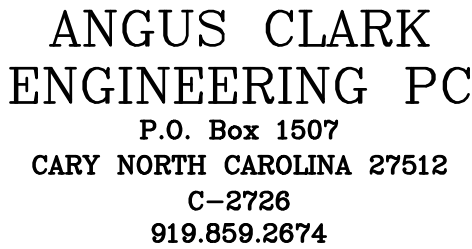
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RISER &
SCHEDULES

E301

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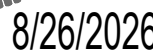


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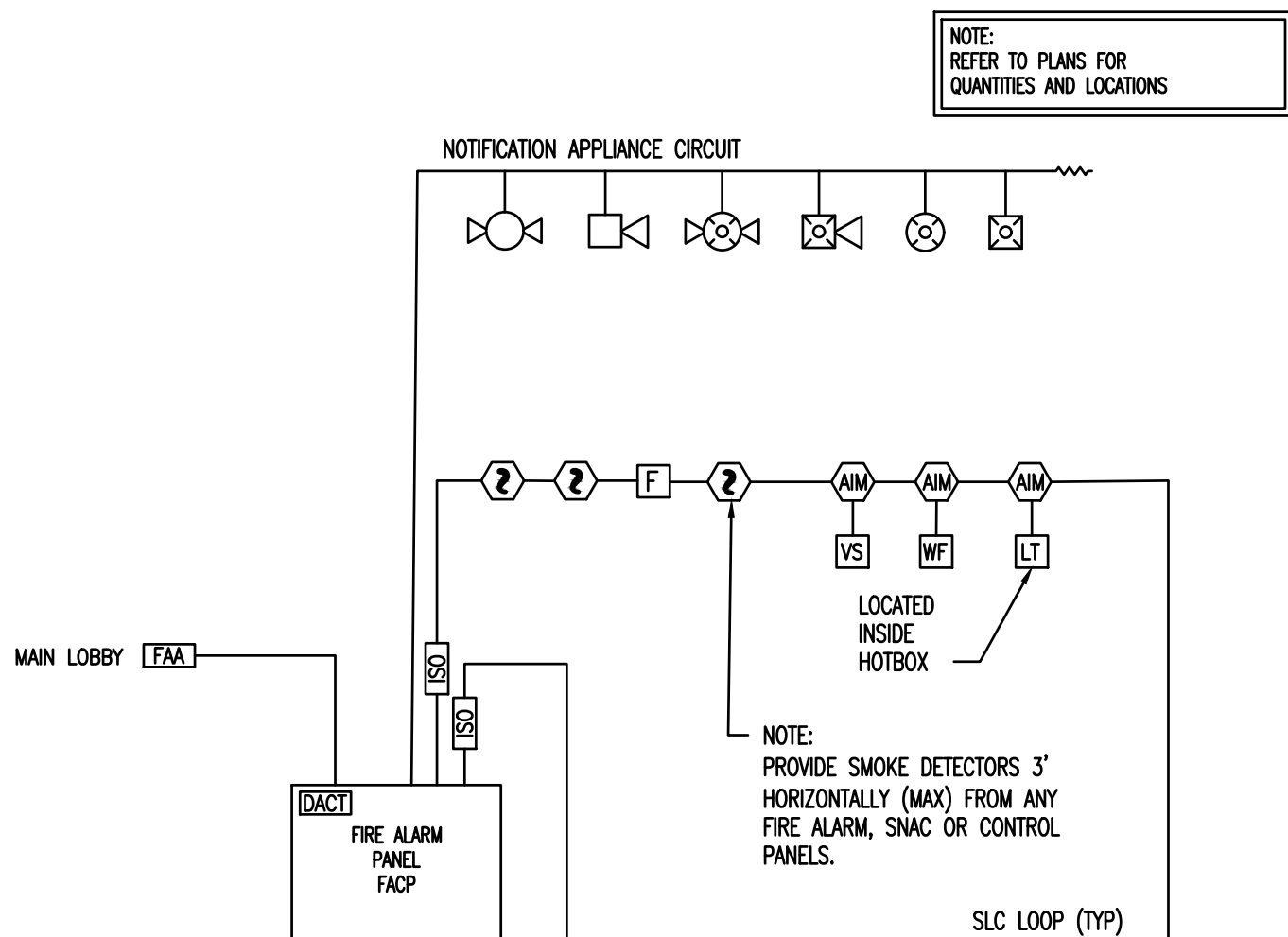
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NO.	DATE	DESCRIPTION
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ONE FOLK SCHOOL RD
BRASSTOWN, NC 28902
JOB NO: 26162

08.26.26



FIRE ALARM SCOPE OF WORK:
PROVIDE FULL FIRE ALARM SYSTEM

1 FIRE ALARM RISER DIAGRAM
FA001 SCALE: NTS

WIRE LEGEND:

NAC CIRCUITS : 2 CONDUCTOR, #12AWG, BLUE+, BLACK-
CLASS "B" LOOP: 1 PAIR #18AWG TWISTED, OVERALL SHIELD,
RED+,BLACK-,RED JACKET.

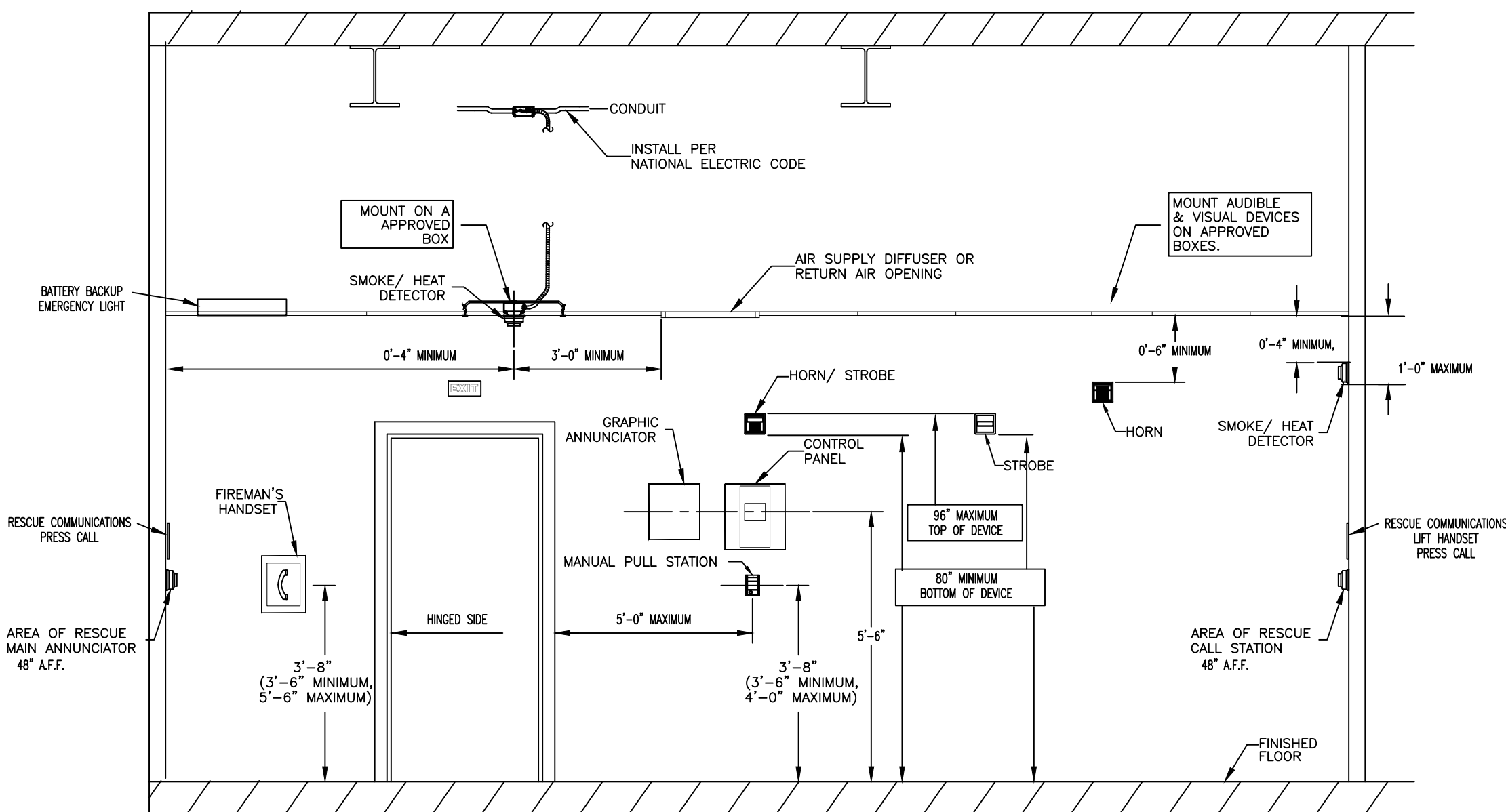
FIRE ALARM RISER NOTES

1. PROVIDE "ADDRESSABLE" FIRE ALARM SYSTEM AS SHOWN. ALL WORK SHALL BE IN ACCORDANCE WITH NFPA 72. ALL WIRING SHALL BE SIZED AS REQUIRED BY THE MANUFACTURER.
2. SEE FIRE ALARM PLAN FOR LOCATION AND NUMBER OF DEVICES. THE DRAWINGS INDICATE THE SUGGESTED LOCATIONS FOR INITIATING, NOTIFICATION, AND OTHER MISCELLANEOUS DEVICES INDIRECTLY CONNECTED TO THE FIRE ALARM SYSTEM. MISCELLANEOUS REQUIREMENTS ARE FOR THE GENERAL INFORMATION OF THE CONTRACTOR. EXACT LOCATIONS, INSTALLATIONS, AND CONNECTIONS SHALL BE PER FIRE ALARM MANUFACTURERS INSTRUCTIONS AND DIRECTIONS FOR A COMPLETED SYSTEM. CONTRACTOR SHALL FURNISH AND INSTALL ALL CONDUIT, PULL BOXES, JUNCTION BOXES, AND MISCELLANEOUS REQUIREMENTS AS REQUIRED BY FIRE ALARM EQUIPMENT SUPPLIER.
3. PROVIDE BATTERY CALCULATIONS FOR THE DEVICES REQUIRED. ALLOW 25% ADDITIONAL CAPACITY FOR FUTURE DEVICES.
4. FIRE SEAL ALL CONDUIT PENETRATIONS.
5. PROVIDE GRAPHIC ANNUNCIATOR CHART AT THE MAIN LOBBY TO INDICATE ALL DEVICE POINT ASSIGNMENTS AND LOCATIONS.
6. ALL COMPONENTS SHALL BE COMPATIBLE. PROVIDE ALL NECESSARY CONTROL WIRING AND CONDUIT PER MANUFACTURERS REQUIREMENTS.
7. INITIATION OF FIRE ALARM SHALL CAUSE ALL AIR HANDLING UNITS TO SHUT DOWN.
8. ALL DEVICES/SUBMITTALS SHALL BE APPROVED BY THE FIRE MARSHALL PRIOR TO ORDERING/INSTALLATION.
9. COORDINATE WITH ELEVATOR CONTRACTOR/GC AND PROVIDE ALL CONTROL MODULES/RELAYS TO ACCOMPLISH ELEVATOR RECALL.
10. COORDINATE QUANTITY AND LOCATION OF TAMPER AND FLOW SWITCHES WITH SPRINKLER CONTRACTOR.
11. COORDINATE QUANTITY, LOCATION AND VOLTAGE OF FIRE DAMPERS WITH MECHANICAL CONTRACTOR. THE FIRE ALARM INSTALLER SHALL BE RESPONSIBLE FOR ALL WIRING REQUIRED TO FACILITATE DAMPER CONTROL FUNCTIONS AS INITIATED BY THE FACP.

FIRE ALARM GENERAL NOTES

1. AS USED ON THESE DOCUMENTS, THE WORD "PROVIDE" SHALL MEAN TO FURNISH AND INSTALL THE ITEM OR EQUIPMENT AND MAKE THE FINAL CONNECTION AS REQUIRED.
2. FIRE ALARM CONTRACTOR TO ENSURE CANDELA RATINGS OF EXISTING DEVICES MATCH THOSE INDICATED. ADJUST OR REPLACE EXISTING DEVICES AS REQUIRED TO ACHIEVE PROPER RATINGS AND COVERAGE. ALL FIRE ALARM NOTIFICATION DEVICES SHALL SYNC.
3. A SOUND PRESSURE LEVEL OF 75db or 15db above AVERAGE AMBIENT NOISE LEVEL, WHICHEVER IS GREATER, IS REQUIRED IN ALL ROOMS (WITH DOORS CLOSED). ADJUST HORN OUTPUT LEVELS TO MEET THIS REQUIREMENT PRIOR TO FIRE MARSHALL INSPECTION.
4. EXISTING NOTIFICATION DEVICES SHALL BE FIELD INSPECTED BY FIRE ALARM CONTRACTOR TO ENSURE SYNCHRONIZATION CAPABILITY PRIOR TO PRICING. EXISTING DEVICES SHALL BE REMOVED & REPLACED AS REQUIRED.

INSTALLATION REQUIREMENTS



2 FIRE ALARM DEVICE MOUNTING DETAIL
FA001 SCALE: NTS

FIRE ALARM SCHEDULE		
SYMBOL	CALLOUT	NOTE
	AUDIBLE-VISUAL APPLIANCE (WALL MOUNTED)	CANDELA RATING AS NOTED
	FIRE ALARM ANNUNCIATOR	
	FIRE ALARM CONTROL UNIT	
	PULL STATION - FIRE ALARM	
	SMOKE DETECTOR SENSOR - PHOTOELECTRIC TYPE	SMOKE/CARBON MONOXIDE DETECTOR
	SMOKE DETECTOR - SOUND BASE	SMOKE DETECTOR WITH SOUNDER BASE (SB)
	VALVE SUPERVISORY SWITCH	
	VISUAL ONLY APPLIANCE (WALL MOUNTED)	CANDELA RATING AS NOTED
	WATER FLOW SWITCH	



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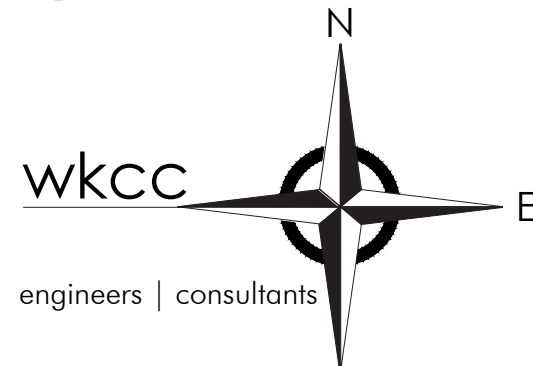
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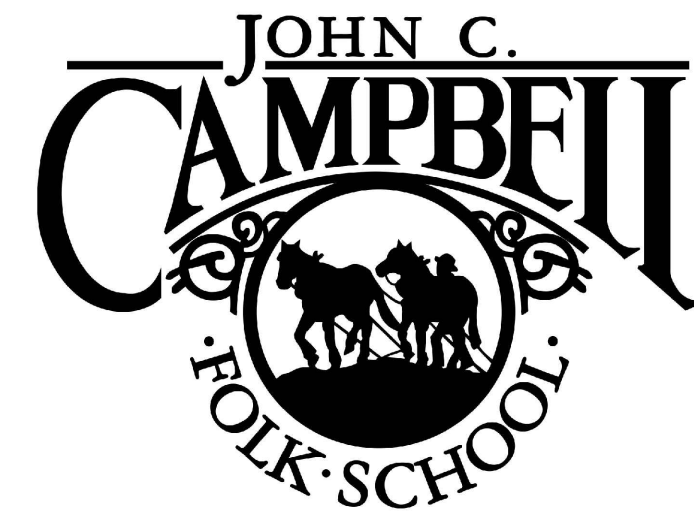


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8/26/2026

ISSUANCES	NO.	DATE	DESCRIPTION
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ACCESSIBLE
HOUSING

ONE FOLK SCHOOL RD
BRASSTOWN, NC 28902
JOB NO: 26162

FIRE ALARM PLAN

FA101

08.26.26

