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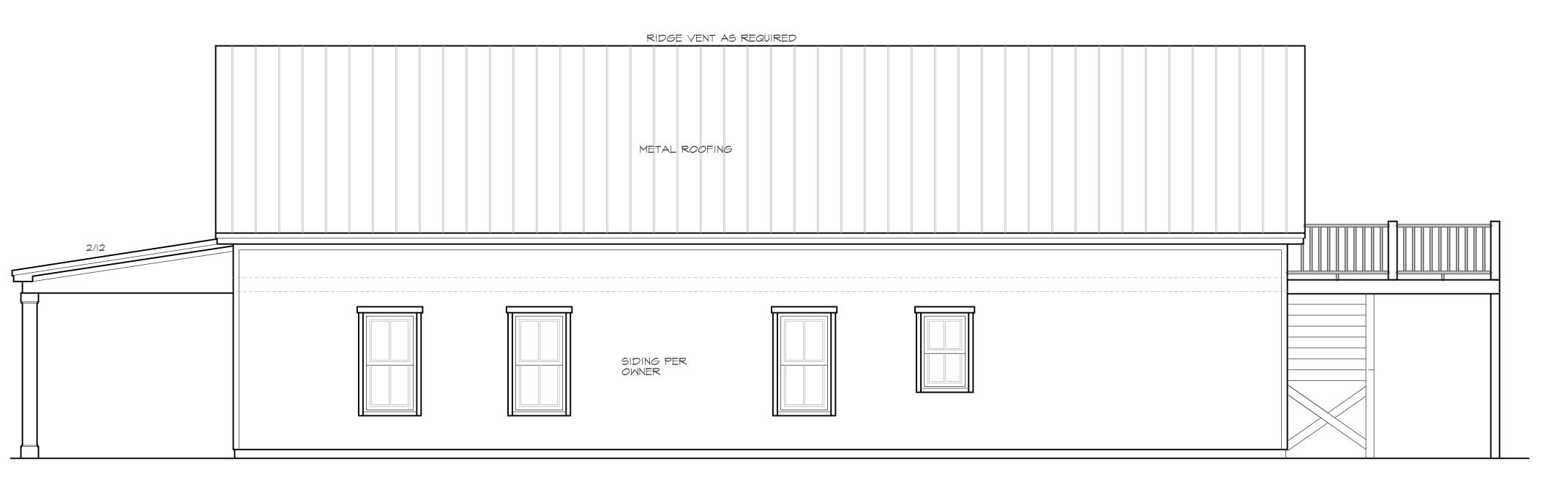
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THIS PLAN DESIGNED UNDER NORTH CAROLINA RESIDENTIAL CODE 2018 EDITION (2018 IRC)

Residence

Spradley]





RIGHT SIDE ELEVATION

SCALE 1/4" = 1'-0"

DESIGNS

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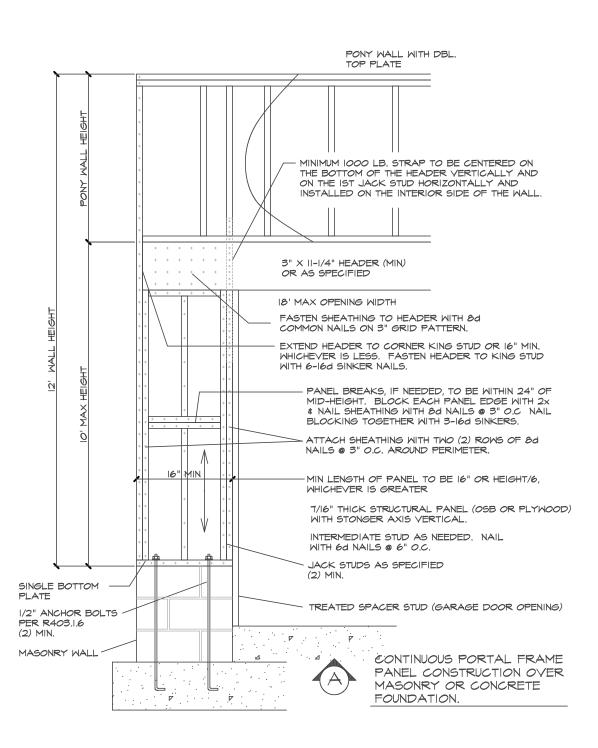
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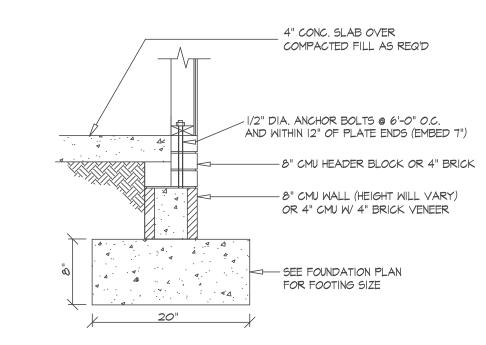
Residence Spradley

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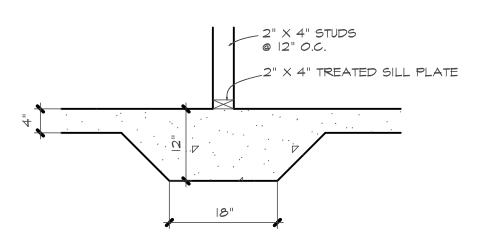




2/1/2023 P.E.TEAGUE, P.E., PLLC 2705 WATERLOO CT. NC 27613 PETEAGUE50@GMAIL.COM (919)247-2572 (Lic. #P-0207)



ASLAB FND. W/ STEM WALL



SECTION C ELEVATION THICKENED SLAB

FOUNDATION STRUCTURAL NOTES:

(3) 2 x 10 SPF #2 GIRDER DROPPED, TYPICAL UNO.

2 CONCRETE BLOCK PIER SIZE SHALL BE:
SIZE HALLOW MASONRY SOLID MASONRY
8 x 16 UP TO 32" HIGH UP TO 5'-0" HIGH
12 x 16 UP TO 48" HIGH UP TO 9'-0" HIGH
16 x 16 UP TO 64" HIGH UP TO 12'-0" HIGH

 24×24 UP TO 96" HIGH WITH 30" \times 30" \times 10" CONCRETE FOOTING, UNO.

(3) WALL FOOTING AS FOLLOWS:

DEPTH: 8" - UP TO 2-1/2 STORY 10" - 3 STORY

WIDTH: SIDING (OR EQUAL)
- 16" - UP TO 2-1/2 STORY
- 18" - 3 STORY

- 18" - 3 STORY BRICK VENEER - 16" - 1 STORY - 20" - 2 STORY

FOR FOUNDATION WALL HEIGHT AND BACKFILL REQUIREMENTS, REFER TO NORTH CAROLINA RESIDENTIAL CODE TABLE R404.I.I (I THRU 4) NOTE: ASSUMED SOIL BEARING CAPACITY = 2000 PSF. CONTRACTOR MUST VERIFY SITE CONDITIONS AND CONTACT SOILS ENGINEER IF MARGINAL OR UNSTABLE SOILS ARE ENCOUNTERED.

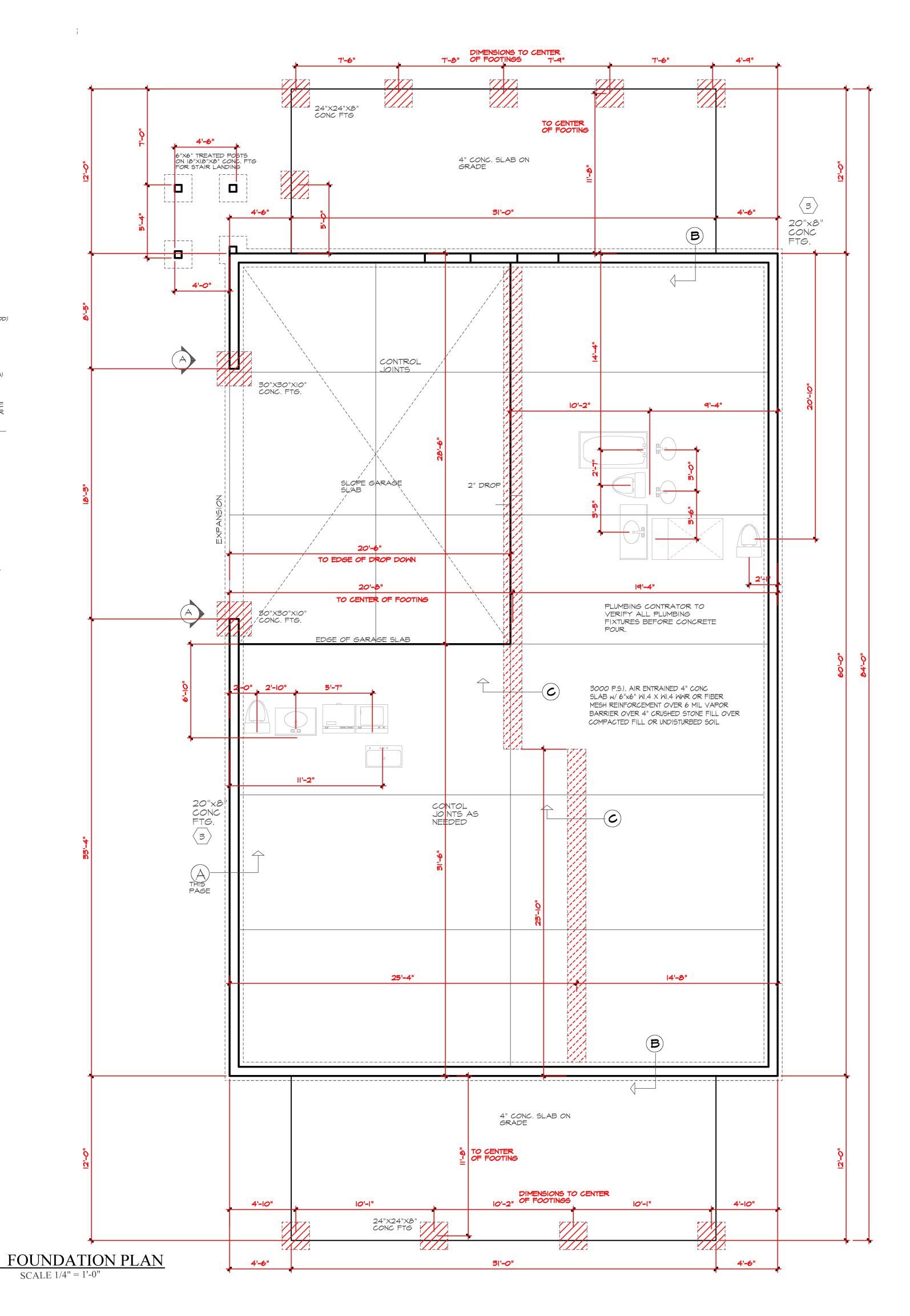
- 24" - 3 STORY

ATTACH SILL PLATE WITH 1/2"dia. ANCHOR BOLTS AT 6'-0" CENTERS (7" EMBEDMENT) AND 12" FROM EACH PLATE END. (SECTION R 403.1.6)

4 "" DESIGNATES A SIGNIFICANT POINT LOAD TO HAVE SOLID BLOCKING TO PIER. SOLID BLOCK ALL BEAM BEARING POINTS NOTED TO HAVE THREE OR MORE STUDS TO FND, TYPICAL.

5 ABBREVIATIONS:

"SJ" = SINGLE JOIST
"DJ" = DOUBLE JOIST
"TJ" = TRIPLE JOIST





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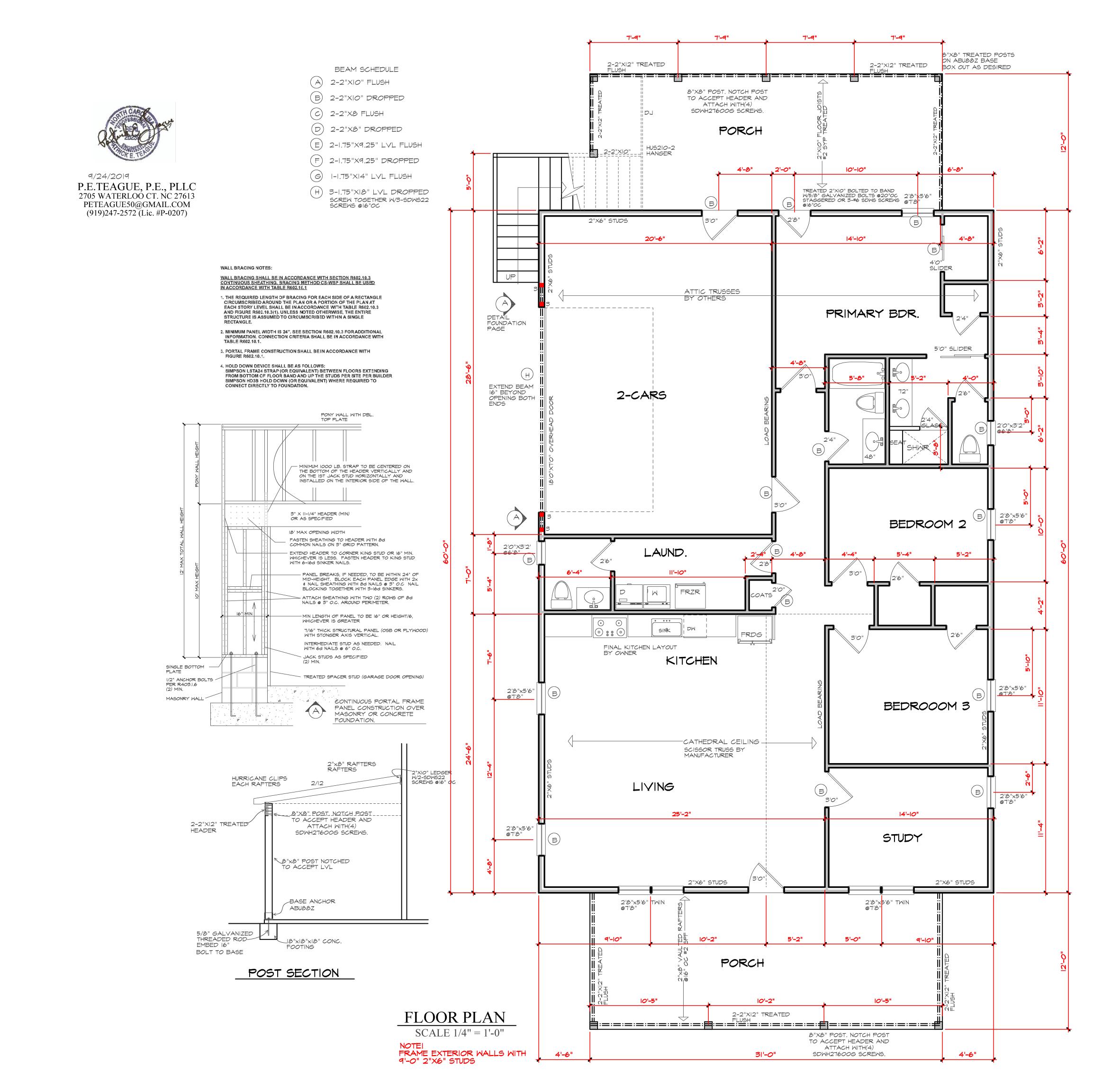
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THIS PLAN DESIGNED UNDER NORTH CAROLII
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NC (2018 NCRC) : Wind : 115 - 120 mph

pradley Residence

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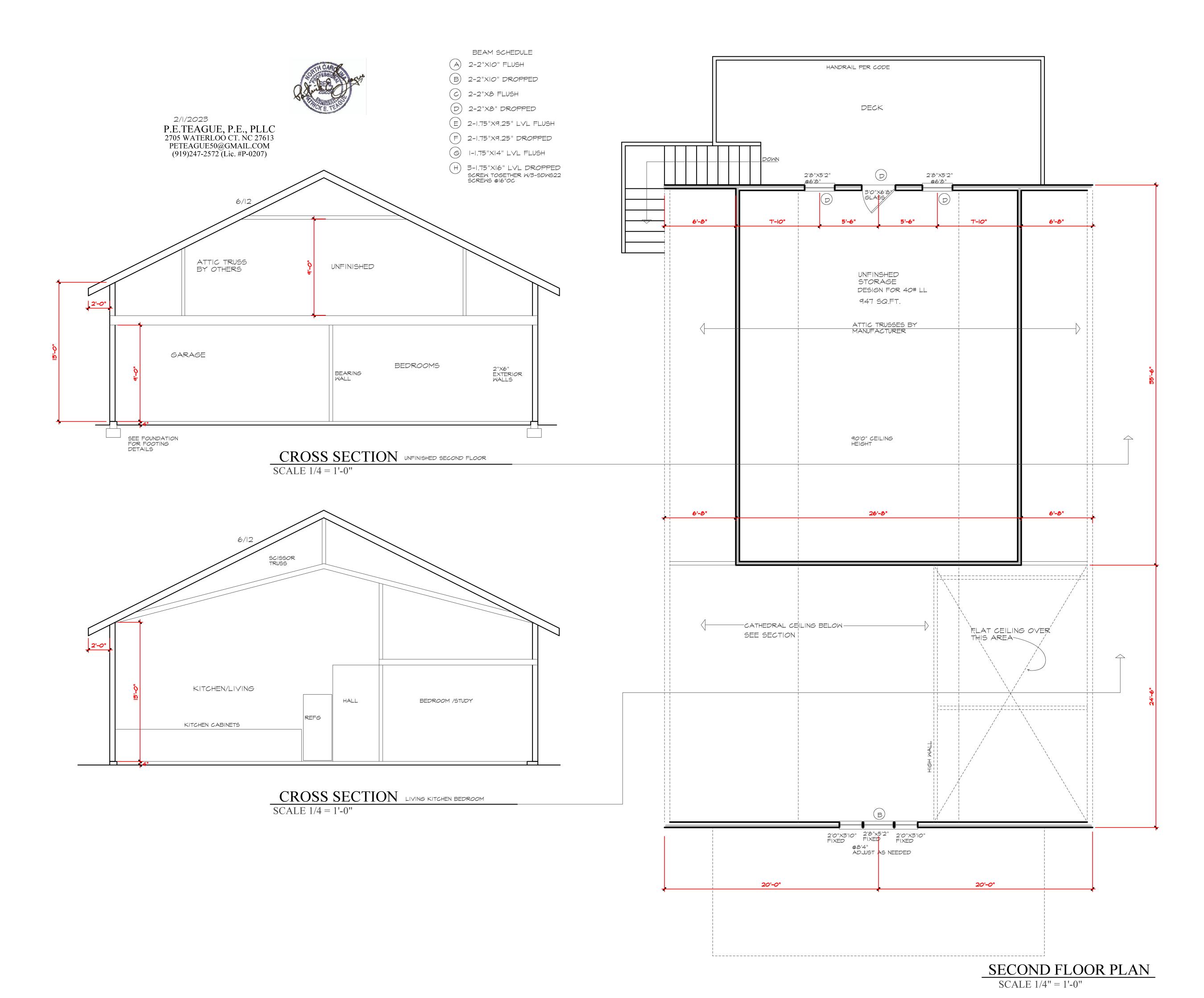
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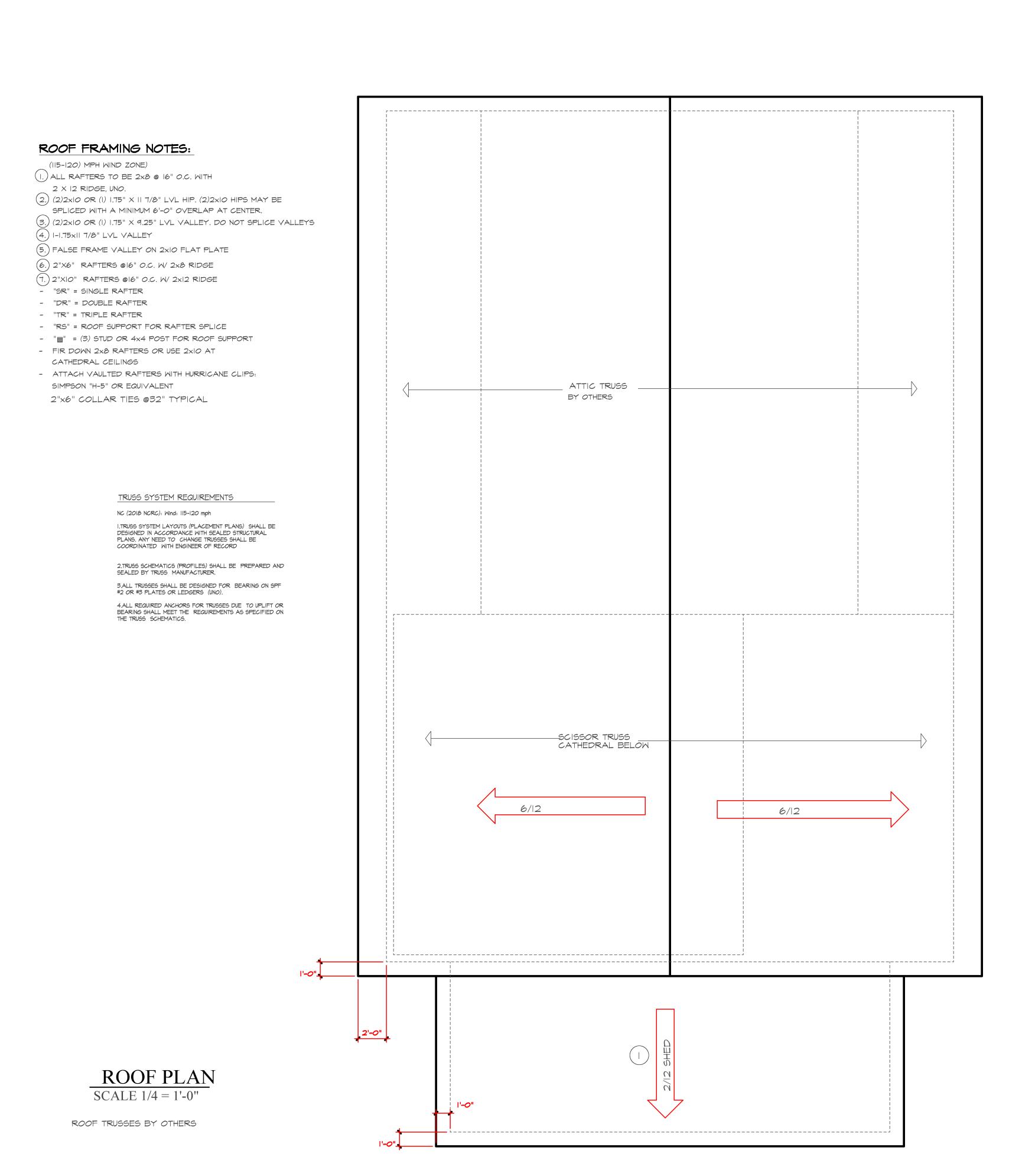
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PROJECT # 22|20|





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I) ALL CONSTRUCTION SHALL CONFORM TO THE LATEST REQUIREMENTS OF THE NORTH CAROLINA STATE RESIDENTIAL CODE - 2018 EDITION (2018 IRC), PLUS ALL LOCAL CODES AND REGULATIONS.

ALL MEMBERS SHALL BE FRAMED, ANCHORED, TIED AND BRACED IN ACCORDANCE WITH GOOD CONSTRUCTION PRACTICE AND THE BUILDING CODE.

2) DESIGN LOADS SEE TABLE R301.5

WIND SPEED: (REFER TO TABLE R301.2.4) VERIFY ZONE BEFORE CONSTRUCTION.

3) WALL BRACING: WALLS SHALL BE BRACED ALONG BRACED WALL LINES ACCORDING TO SECTION R602.10. THE AMOUNT, LOCATION, AND CONSTRUCTION OF BRACING SHALL COMPLY WITH R602.10. NOTE THAT THE BRACING SHOWN ON THE PLANS IS BASED ON THE PRESCRIPTIVE BRACING REQUIREMENTS OF THE CODE AND SHALL BE VERIFIED AND/ORAPPROVED BY THE CODE OFFICIAL.

4) CONCRETE SHALL HAVE A MINIMUM 28 DAY STRENGTH OF 3000 PSI AND A MAXIMUM SLUMP OF 5 INCHES UNLESS NOTED OTHERWISE (UNO). AIT ENTRAINED PER TABLE 402.2. ALL CONCRETE SHALL BE PROPORTIONED, MIXED, HANDLED, SAMPLED, TESTED AND PLACED IN ACCORDANCE WITH ACI STANDARDS. ALL SAMPLES FOR PUMPING SHALL BE TAKEN FROM THE EXIT END OF THE PUMP.

5) ALLOWABLE SOIL BEARING PRESSURE ASSUMED TO BE 2000 PSF. THE CONTRACTOR MUST CONTACT A GEOTECHNICAL ENGINEER AND THE STRUCTURAL ENGINEER IF UNSATISFACTORY SUBSURFACE CONDITIONS ARE ENCOUNTERED. THE SURFACE AREA ADJACENT TO THE FOUNDATION WALL SHALL BE PROVIDED WITH ADEQUATE DRAINAGE, AND SHALL BE GRADED SO AS TO DRAIN SURFACE WATER AWAY FROM FOUNDATION WALLS.

6) ALL FRAMING LUMBER SHALL BE SPF #2(FB = 875 PSI) UNLESS NOTED OTHERWISE (UNO). ALL TREATED LUMBER SHALL BE SYP #2 (FB=975 PSI). PLATE MATERIAL MAY BE SPF #3 OR SYP #3 (FC(PERP) = 425 PSI - MIN).

7) ALL WOODEN BEAMS AND HEADERS SHALL HAVE THE FOLLOWING END SUPPORTS: (I) 2X4 STUD COLUMN FOR 6'-O" MAX. BEAM SPAN (UNO), (2)2X4 STUDS FOR BEAM SPAN GREATER THAN 6'-O" (UNO).

8) L.V.L SHALL BE LAMINATED VENEER LUMBER: FB=2600 PSI, FV=285 PSI, E=1,900,000 PSI. P.S.L SHALL BE PARALLEL STRAND LUMBER: FB=2900 PSI, FV=290 PSI, E=2,000,000 PSI. L.S.L SHALL BE LAMINATED STRAND LUMBER: FB=2250 PSI, FV=400 PSI, E=1,550,000 PSI. INSTALL ALL CONNECTIONS PER MANUFACTURER'S INSTRUCTIONS.

9) ALL ROOF TRUSS AND 1-JOIST LAYOUTS SHALL BE PREPARED IN ACCORDANCE WITH THE SEALED STRUCTURAL DRAWINGS. TRUSSES AND 1-JOISTS SHALL BE INSTALLED ACCORDING TO THE MANUFACTURER'S SPECIFICATIONS.

IO) ALL STRUCTURAL STEEL SHALL BE ASTM A-36. STEEL BEAMS SHALL BE SUPPORTED AT EACH END WITH A MINIMUM BEARING LENGTH OF 3 1/2" INCHES AND FULL FLANGE WIDTH. PROVIDE SOLID BEARING FROM BEAM SUPPORT TO FOUNDATION. BEAMS SHALL BE ATTACHED TO EACH SUPPORT WITH TWO LAG SCREWS (1/2" DIAMETER X 4" LONG). LATERAL SUPORT IS CONSIDERED ADEQUATE PROVIDED THE JOIST ARE TOE NAILED TO THE SOLE PLATE, AND SOLE PLATE IS NAILED OR BOLTED TO THE BEAM FLANGE @ 48" O.C. ALL STEEL TUBING SHALL BE ASTM A500.

II) REBAR SHALL BE DEFORMED STEEL. ASTM615, GRADE 60.

12) FLITCH BEAMS SHALL BE BOLTED TOGETHER USING (2) ROWS OF 1/2" DIAMETER BOLTS (ASTM A307) WITH WASHERS PLACED UNDER THE THREADED END OF BOLT. BOLTS SHALL BE SPACED AT 24" O.C. (MAX). AND STAGGERED AT THE TOP AND BOTTOM OF BEAM (2" EDGE DISTANCE), WITH 2 BOLTS LOCATED AT 6" FROM EACH END.

13) BRICK LINTELS SHALL BE 3 1/2"X3 1/2"X1/4" STEEL ANGLE FOR UP TO 6'-0" SPAN AND 6"X4"X5/16" STEEL ANGLE WITH 6" LEG VERTICAL FOR SPANS UP TO

14) THE POSITIVE AND NEGATIVE DESIGN PRESSURE FOR DOORS AND WINDOWS SEE R301.2(6)

DWELLING / GARAGE SEPARATION

REFER TO SECTIONS R302.5, R302.6, AND R302.7

WALLS. A minimum 1/2" gypsum board must be installed on all walls supporting

floor/celling assemblies used for separation required by this section.

STAIRS. A minimum of 1/2" gypsum board must be installed on the underside and exposed sides of all stairways.

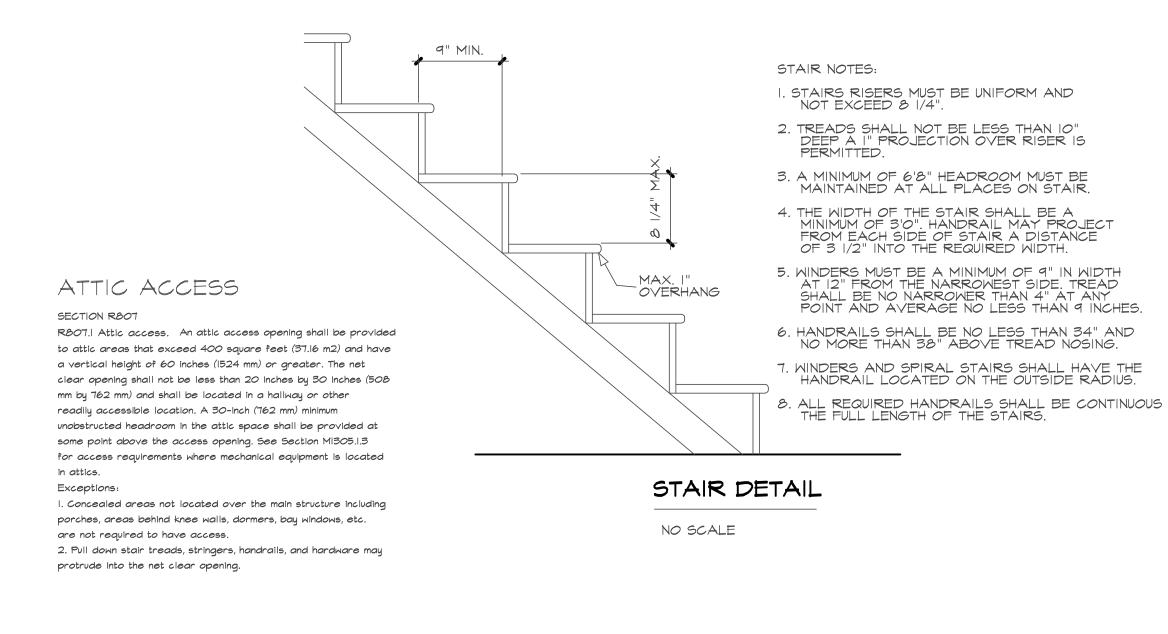
CEILINGS. A minimum of 1/2" gypsum must be installed on the garage ceiling if there

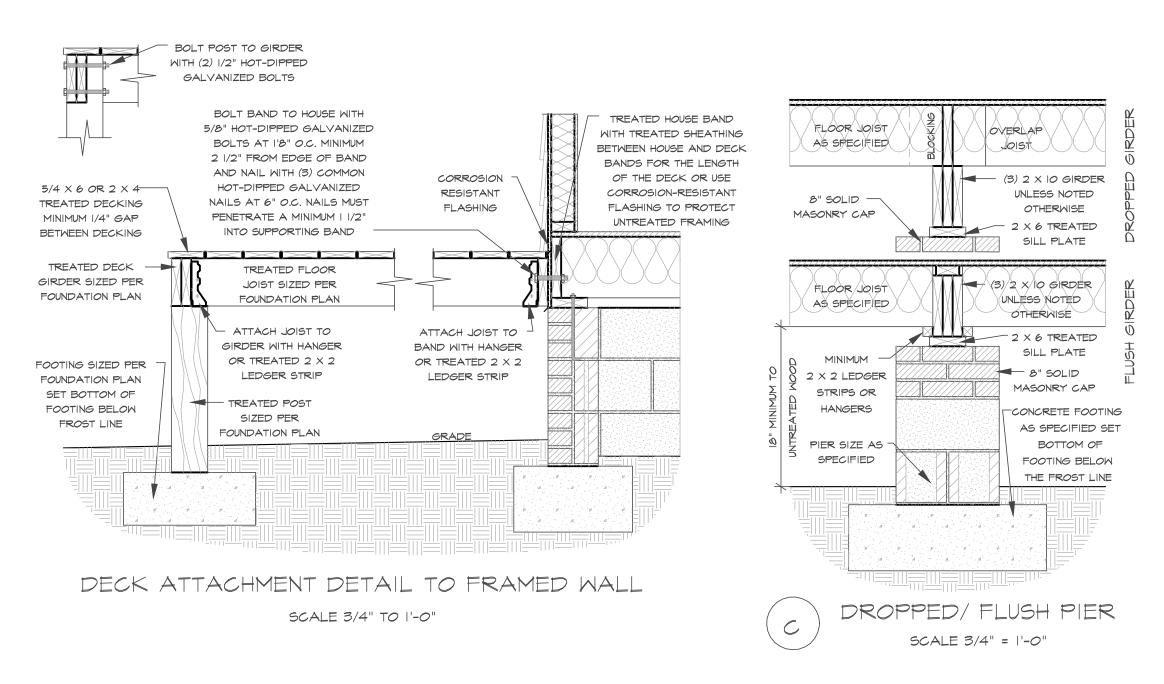
are no habitable room above the garage. If there are habitable room above the garage a minimum of 5/8" type X gypsum board must be installed on the garage celling.

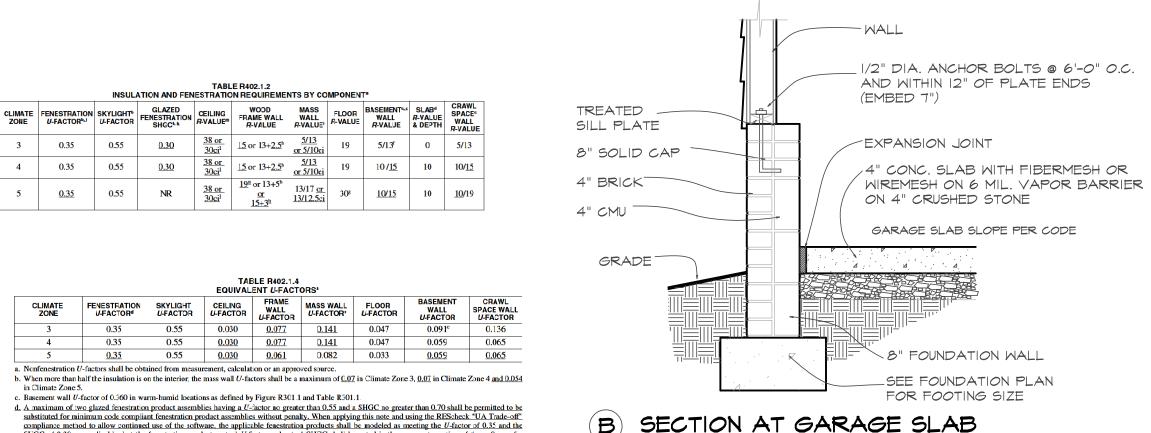
OPENING PENETRATIONS. Openings between the garage and residence shall be equipped with solid wood doors not less than 1 3/8 inches (35 mm) in thickness, solid or honeycomb core steel doors not less than 1 3/8 inches (35 mm) thick, or 20-minute fire-rated doors.

DUCT PENETRATIONS. Ducts in the garage and ducts penetrating the walls or ceilings separating the *awelling* from the garage shall be constructed of a minimum No. 26 gage (0.48 mm) sheet steel or other *approved* material and shall have no openings into the garage.

OTHER PENETRATIONS. Penetrations through the separation required in Section R302.6 shall be protected as required by Section R302.11, Item 4.







SFGC of 0.30, as applicable, but the fenestration products actual *U*-factor and actual SFGC shall be noted in the comments section of the software for documentation of application of this note to the applicable products. Compliance for these substitute products shall be verified compared to the allowed substituted maximum *U*-value requirement and maximum SFGC requirement, as applicable.

B SECTION AT GARAGE SLAB

PITCH PER ROOF PLAN OR ELEVATIONS - SHINGLES AS SPECIFIED / 15# BUILDING FELT ROOF INSULATION PER CLIMATE ZONE -SHEATHING AS SPECIFIED SEE CODE - INSULATION BAFFLE SEE PLAN AND ROOF PLAN FOR RAFTER AND TRUSS (2) 2 X 4 TOP PLATE -FRAMING DETAILS ---- 1/2" GYPSUM ' ■I X 8 FASCIA WALL INSULATION PER CLIMATE ZONE SOFFIT SEE CODE. SOFFIT VENTING OPTIONAL I X 4 FRIEZE 2 X 4 SOLE PLATE 3/4" SUBFLOOR -SIDING AS SPECIFIED FLOOR JOISTS AS SPECIFIED SHEATHING AS SPECIFIED (2) 2 X 4 TOP PLATE -— 1/2" GYPSUM -2 X 4 STUDS AT 16" O.C. WALL INSULATION UNLESS NOTED OTHERWISE PER CLIMATE ZONE SEE CODE. 2 X 4 STUDS -AT 16" O.C. SHEATHING UNLESS NOTED AS SPECIFIED OTHERWISE FLOOR JOIST SIDING AS - 8" SOLID MASONRY CAP 2 X 6 TREATED -4" CONCRETE SILL PLATE BLOCK - 4" BRICK 1/2" DIAMETER ANCHOR VENEER BOLTS AT 6'0" O.C. AND WITHIN 12" OF PLATE ENDS EMBEDDED 7" MINIMUM TWO GRADE BOLTS PER SILL CONTINUOUS CONCRETE FOOTING AS SPECIFIED SET BOTTOM OF FOOTING BELOW THE FROST LINE TYPICAL WALL SECTION SCALE 3/4" = 1'-0"

2" X 4" STUDS SUBFLOOR -BAND -TREATED SILL 8" SOLID MASONRY CAP J/2" DIA. ANCHOR BOLTS @ 6'-0" O.C. AND WITHIN 12" OF PLATE ENDS 4" BRICK -(EMBED 7") 4" CMU---FINISH GRADE 8" CMU ---SEE FOUNDATION PLAN FOR FOOTING SIZE -

(D) SECTION AT CRAWL