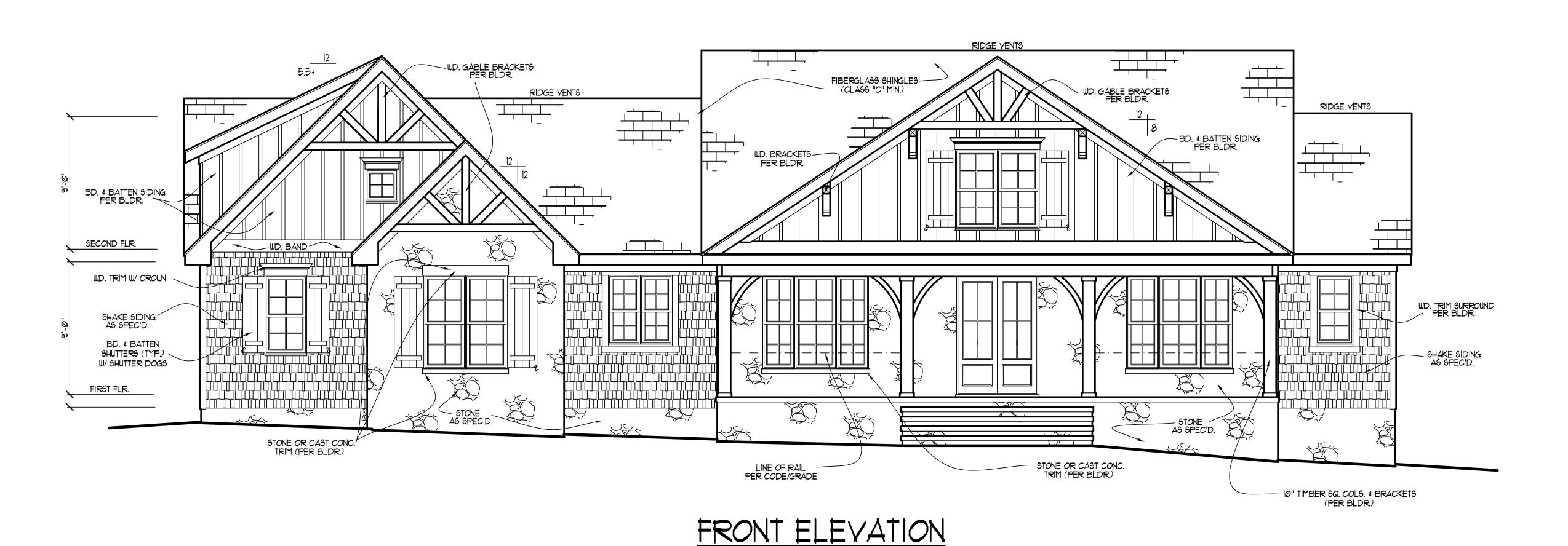


REAR ELEVATION

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



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

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> BASE, / VENTS = BASE, / VENTS =

* (148') - RIDGE VENT @ 9 sq.in./ft. = 9.25 SQ. FT.

<u> TOTAL = 9.25 SQ. FT.</u>

ATTIC VENTILATION

00000 =00000 sq. ft. REQD.

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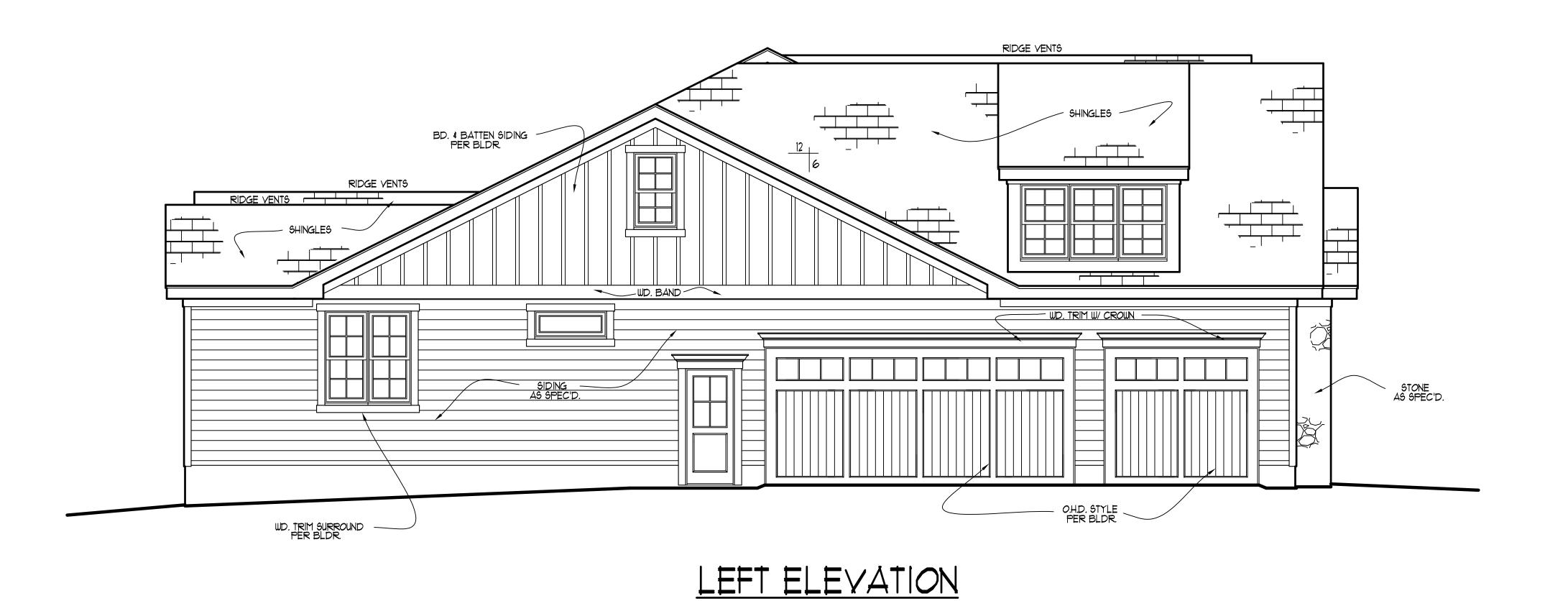
ROSSNER

HOUSE NUMBER:

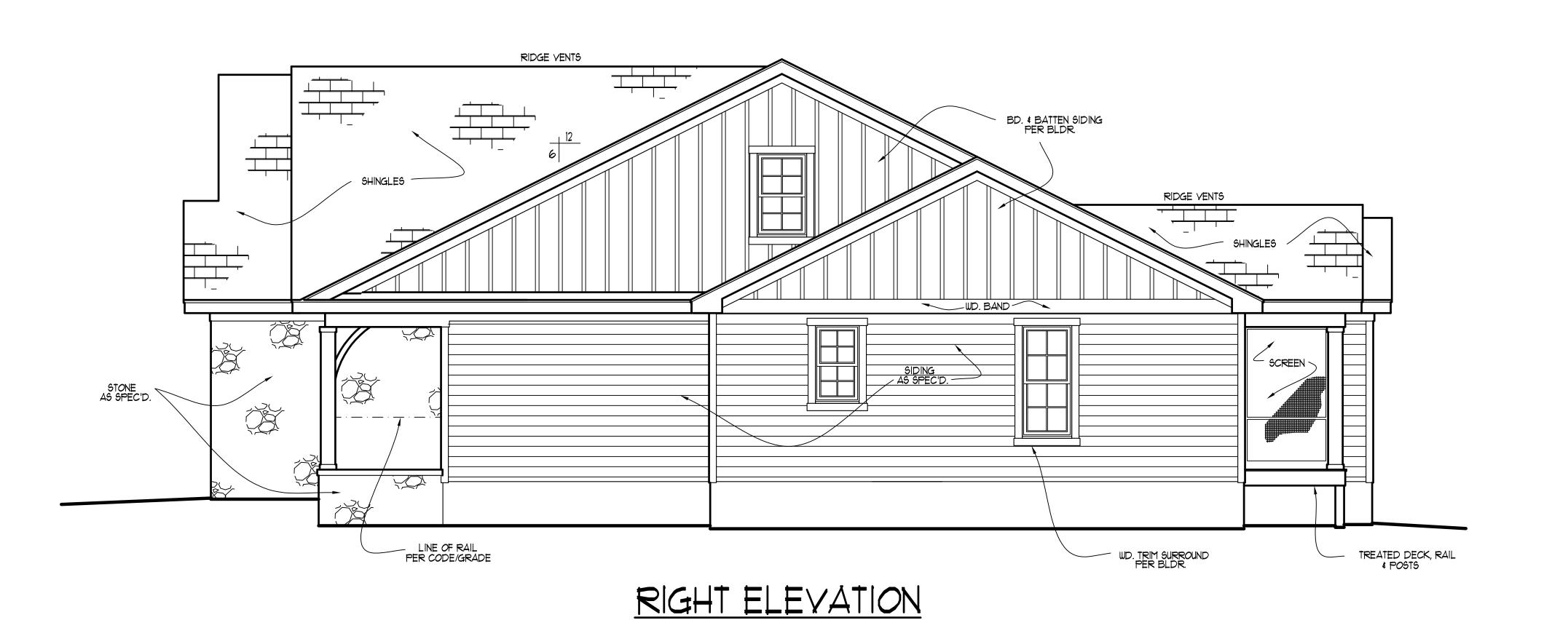
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THESE PLANS MEET THE REQUIREMENTS OF THE INTERNATIONAL RESIDENTIAL CODE '2015' AND THE NORTH CAROLINA RESIDENTIAL CODE '2018' EDITION.

** PROVIDE CONTINUOUS SOFFIT VENT SUUROUND TO EQUAL OR EXCEED 1.23 SQ. FT. *** (OPT.) PROVIDE THEMOSTATICALLY CONTROLLED POWER VENT TO EQUAL OR EXCEED 1.23 SQ. FT. CODE INFORMATION * ZONE: (CHECK ONE) ZONE 7 ZONE 8 ZONE * GLAZING U-FACTOR * R-VALUES CEILING R-43 R-19 FLOOR BSMNT. WALL SLAB PERIMETER CRAWL SPACE WALL MEAN ROOF HEIGHT 18'-5" WALL AND ROOF CLADDING DESIGN VALUE: (MEAN ROOF HGT. 30 ft. OR LESS) CRAWL SPACE WALL +18.0, -24.1 ROOF PITCH 0/12 TO 2.25/12 +10.0, -45.4 ROOF PITCH 2.25/12 TO 7/12 +10.4,-34.8 ROOF PITCH 7/12 TO 12/12 +16.5,-21.0 EXPOSURE ADJUSTMENT



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



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STRONG BUILT HOMES
ROSSNER RESIDENCE

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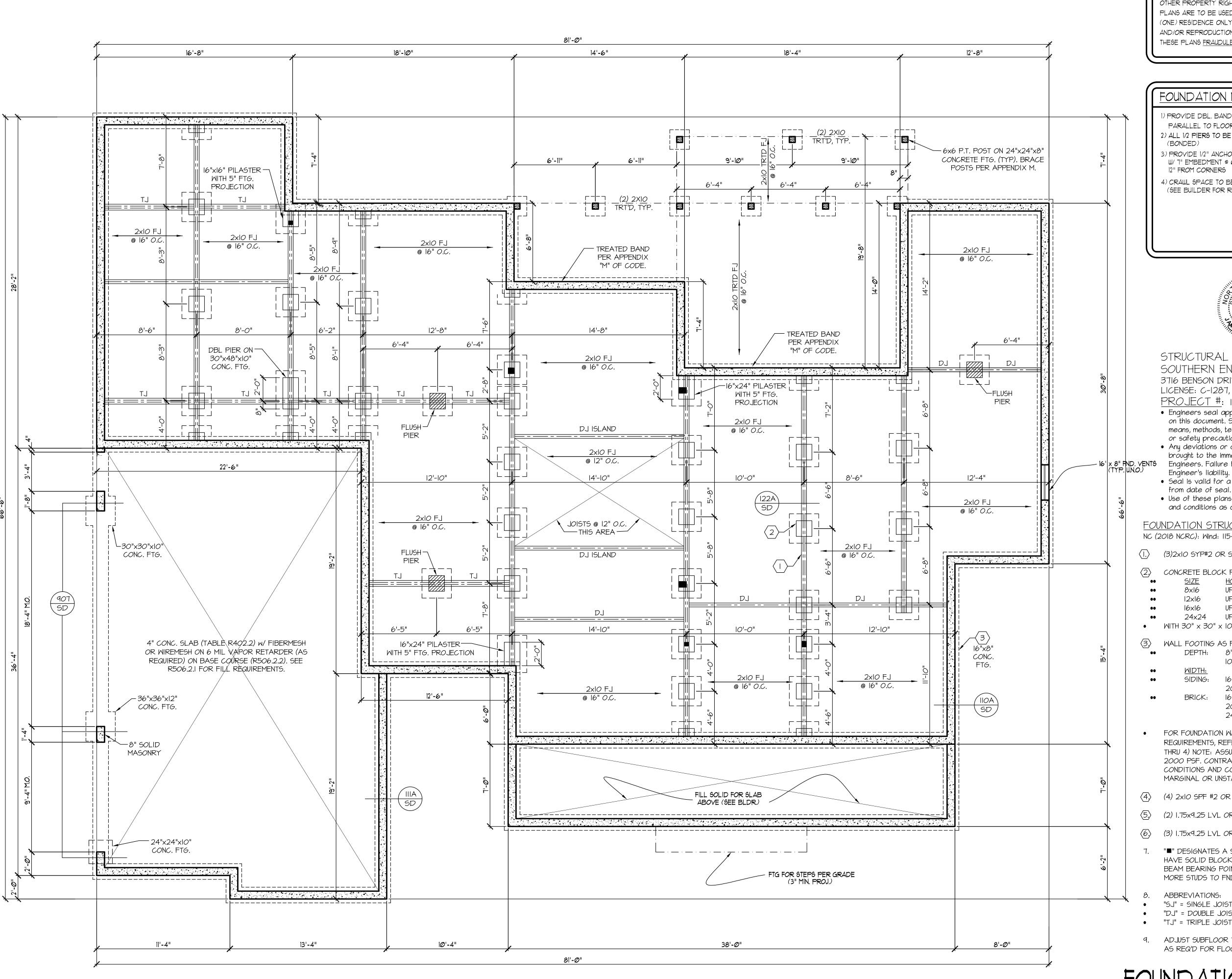
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FOUNDATION NOTES

- 1) PROVIDE DBL. BAND @ EXTERIOR WALLS
- PARALLEL TO FLOOR JOISTS 2) ALL 1/2 PIERS TO BE TIED INTO FND. WALL
- 3) PROVIDE 1/2" ANCHOR BOLTS @ EXT. WALLS W/ 1" EMBEDMENT @ 6'-Ø" CNTRS. AND 12" FROM CORNERS
- 4) CRAWL SPACE TO BE A 'SEALED' CRAWL SPACE. (SEE BUILDER FOR REQUIREMENTS.)



STRUCTURAL DESIGN BY: SOUTHERN ENGINEERS, P.A. 3716 BENSON DRIVE RALEIGH, NC 27609 LICENSE: C-1287, PHONE: 919-878-1617 PROJECT #: 19-2247

- Engineers seal applies only to structural components on this document. Seal does not include construction means, methods, techniques, sequences, procedures or safety precautions.
- Any deviations or discrepancies on plans are to be brought to the immediate attention of Southern - 16' x 8" FND. VENTS Engineers. Failure to do so will void Southern (TYP. UNO.)
 - Seal is valid for a project permitted within one year from date of seal.
 - Use of these plans constitutes approval of terms and conditions as defined in the customer agreement.

FOUNDATION STRUCTURAL NOTES NC (2018 NCRC): Wind: 115-120 mph - CRAWL

(3)2xIO SYP#2 OR SPF#2 GIRDER, TYPICAL UNO.

CONCRETE BLOCK PIER SIZE SHALL BE:

<u>HOLLOW</u> UP TO 32" UP TO 5'-0" UP TO 48" UP TO 9'-0" UP TO 12'-0" UP TO 64"

24x24 UP TO 96" WITH 30" \times 30" \times 10" CONCRETE FOOTING, UNO.

WALL FOOTING AS FOLLOWS

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

SIDING: 16" - UP TO 2 STORY 20" - 3 STORY BRICK: 16" - I STORY 20" - 2 STORY

 FOR FOUNDATION WALL HEIGHT AND BACKFILL REQUIREMENTS, REFER TO 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

- (4) 2xIO SPF #2 OR SYP #2 GIRDER
- (5) (2) 1.75x9.25 LVL OR LSL GIRDER
- (6) (3) 1.75x9.25 LVL OR LSL GIRDER
- 7. "" 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.
- ABBREVIATIONS:
- "SJ" = SINGLE JOIST
- "DJ" = DOUBLE JOIST • "TJ" = TRIPLE JOIST
- 9. ADJUST SUBFLOOR THICKNESS OR JOIST SPACING AS REQ'D FOR FLOOR FINISH MATERIALS.

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

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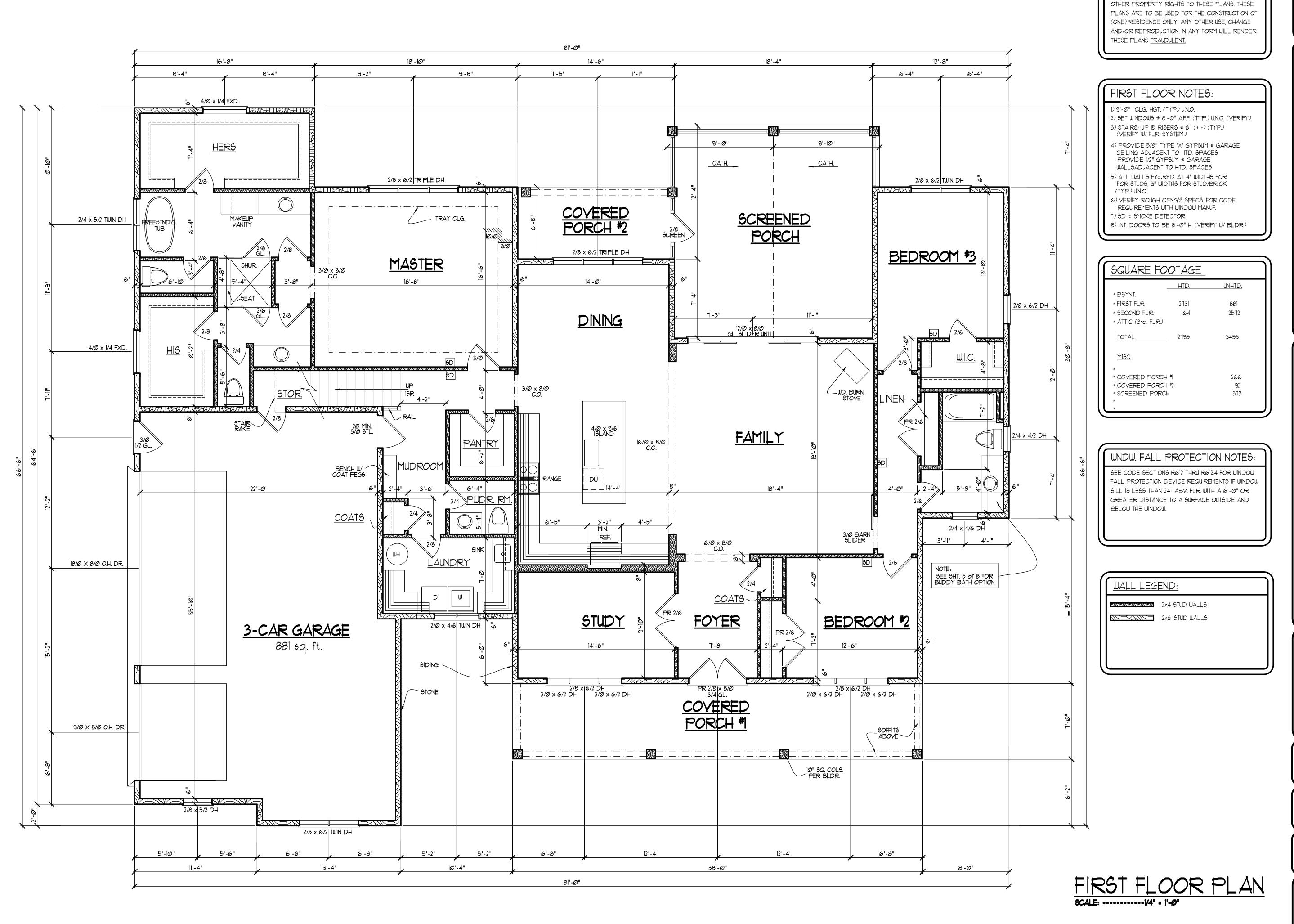
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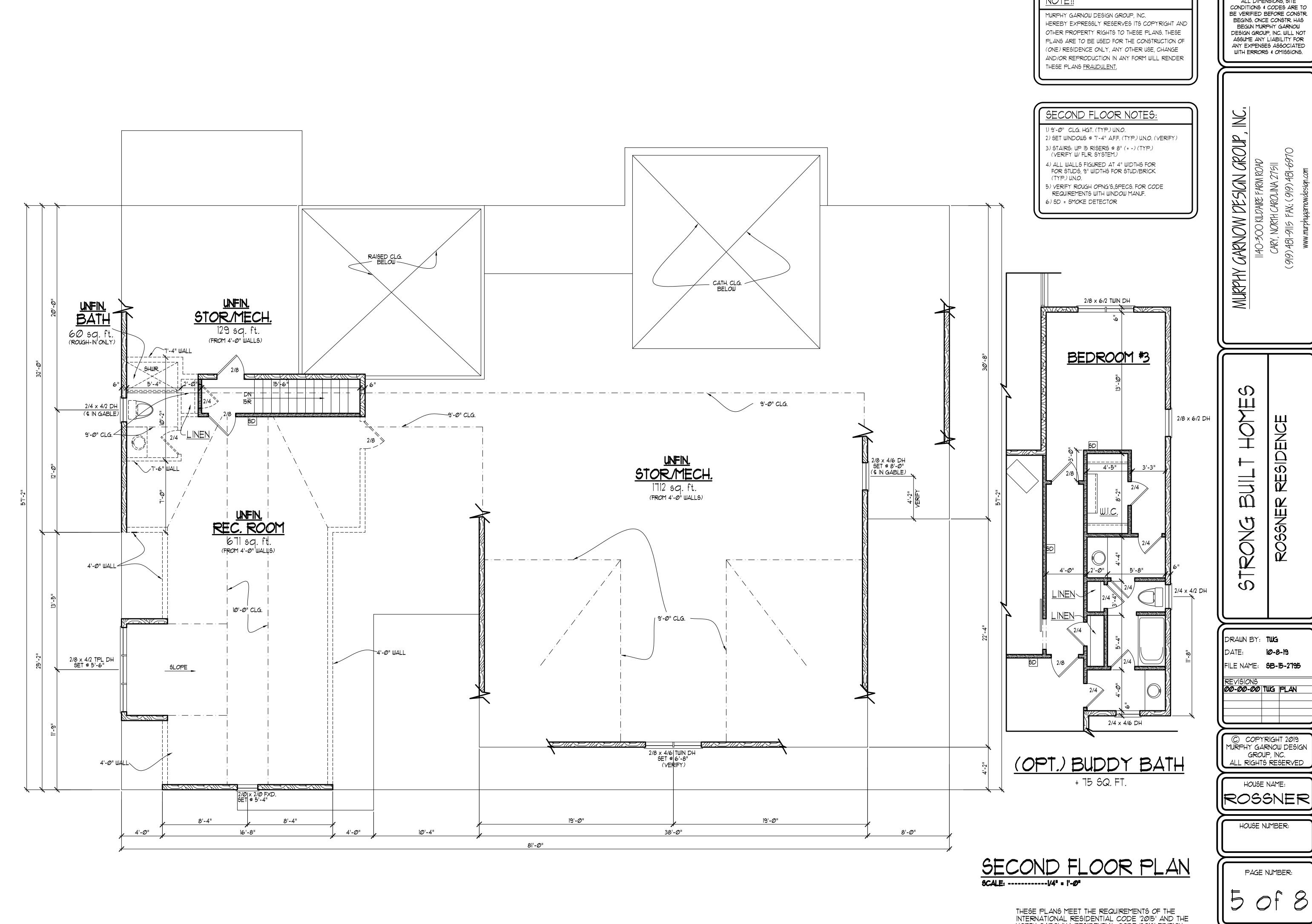
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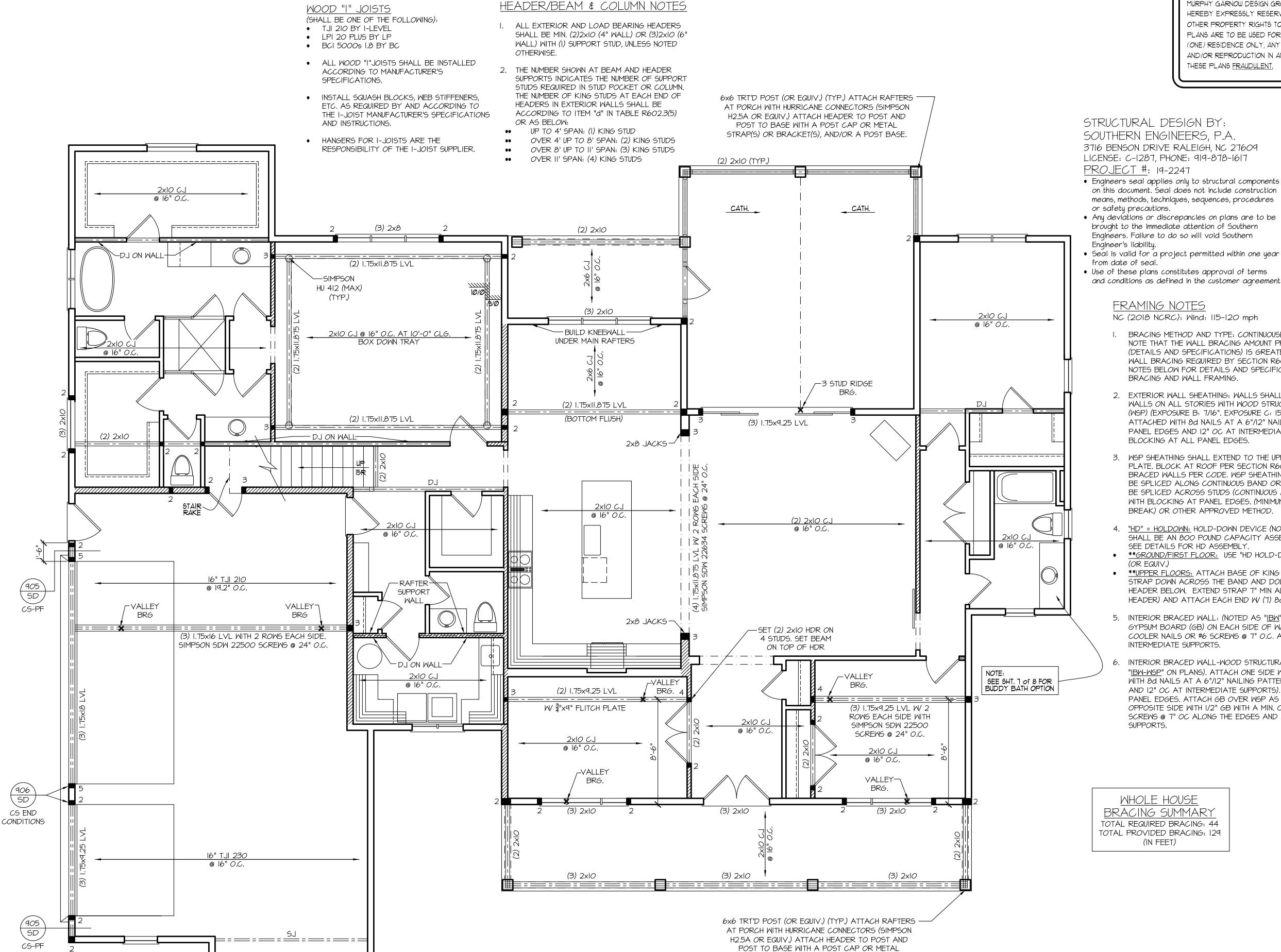
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STRAP(S) OR BRACKET(S), AND/OR A POST BASE.

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- and conditions as defined in the customer agreement.

NC (2018 NCRC): Wind: 115-120 mph

- BRACING METHOD AND TYPE: CONTINUOUSLY SHEATHED WSP: CS-WSP. NOTE THAT THE WALL BRACING AMOUNT PROVIDED ON THE PLANS (DETAILS AND SPECIFICATIONS) IS GREATER THAN THE AMOUNT OF WALL BRACING REQUIRED BY SECTION R602.10 OF THE CODE. SEE NOTES BELOW FOR DETAILS AND SPECIFICATIONS FOR WALL
- 2. EXTERIOR WALL SHEATHING: WALLS SHALL BE BRACED BY SHEATHING WALLS ON ALL STORIES WITH WOOD STRUCTURAL PANEL SHEATHING (WSP) (EXPOSURE B: 7/16". EXPOSURE C: 15/32"). SHEATHING SHALL BE ATTACHED WITH 8d NAILS AT A 6"/12" NAILING PATTERN (6" OC AT PANEL EDGES AND 12" OC AT INTERMEDIATE SUPPORTS). INSTALL BLOCKING AT ALL PANEL EDGES.
- 3. WSP SHEATHING SHALL EXTEND TO THE UPPERMOST DOUBLE BEARING PLATE. BLOCK AT ROOF PER SECTION R602.10.4.5 AND ATTACH BRACED WALLS PER CODE. WSP SHEATHING BETWEEN FLOORS SHALL BE SPLICED ALONG CONTINUOUS BAND OR THE WSP SHEATHING MAY BE SPLICED ACROSS STUDS (CONTINUOUS ACROSS FLOOR SYSTEM) WITH BLOCKING AT PANEL EDGES. (MINIMUM 12" BEYOND FLOOR BREAK) OR OTHER APPROVED METHOD.
- 4. "HD" = HOLDOWN: HOLD-DOWN DEVICE (NOTED AS "HD" ON PLANS) SHALL BE AN 800 POUND CAPACITY ASSEMBLY AS NOTED ON PLANS.
- **GROUND/FIRST FLOOR: USE "HD HOLD-DOWN DETAIL" ON SD SHEET
- **UPPER FLOORS: ATTACH BASE OF KING STUD WITH A SIMPSON CS22 STRAP DOWN ACROSS THE BAND AND DOWN TO A STUD BELOW OR HEADER BELOW. EXTEND STRAP 7" MIN ALONG EACH STUD (OR HEADER) AND ATTACH EACH END W/ (7) 8d NAILS.
- 5. INTERIOR BRACED WALL: (NOTED AS "IBW" ON PLANS) ATTACH I/2" GYPSUM BOARD (GB) ON EACH SIDE OF WALL WITH A MIN. OF 5d COOLER NAILS OR #6 SCREWS @ 7" O.C. ALONG THE EDGES AND AT
- 6. INTERIOR BRACED WALL-WOOD STRUCTURAL PANEL: (NOTED AS "IBW-WSP" ON PLANS). ATTACH ONE SIDE WITH 1/6" WSP SHEATHING WITH 8d NAILS AT A 6"/12" NAILING PATTERN (6" OC AT PANEL EDGES AND 12" OC AT INTERMEDIATE SUPPORTS). INSTALL BLOCKING AT ALL PANEL EDGES. ATTACH GB OVER WSP AS REQUIRED. ATTACH OPPOSITE SIDE WITH I/2" GB WITH A MIN. OF 5d COOLER NAILS OR #6 SCREWS @ 7" OC ALONG THE EDGES AND AT INTERMEDIATE

FIRST FLOOR CEILING STRUCTURAL PLAN SCALE: 11-0" CLG HGT.

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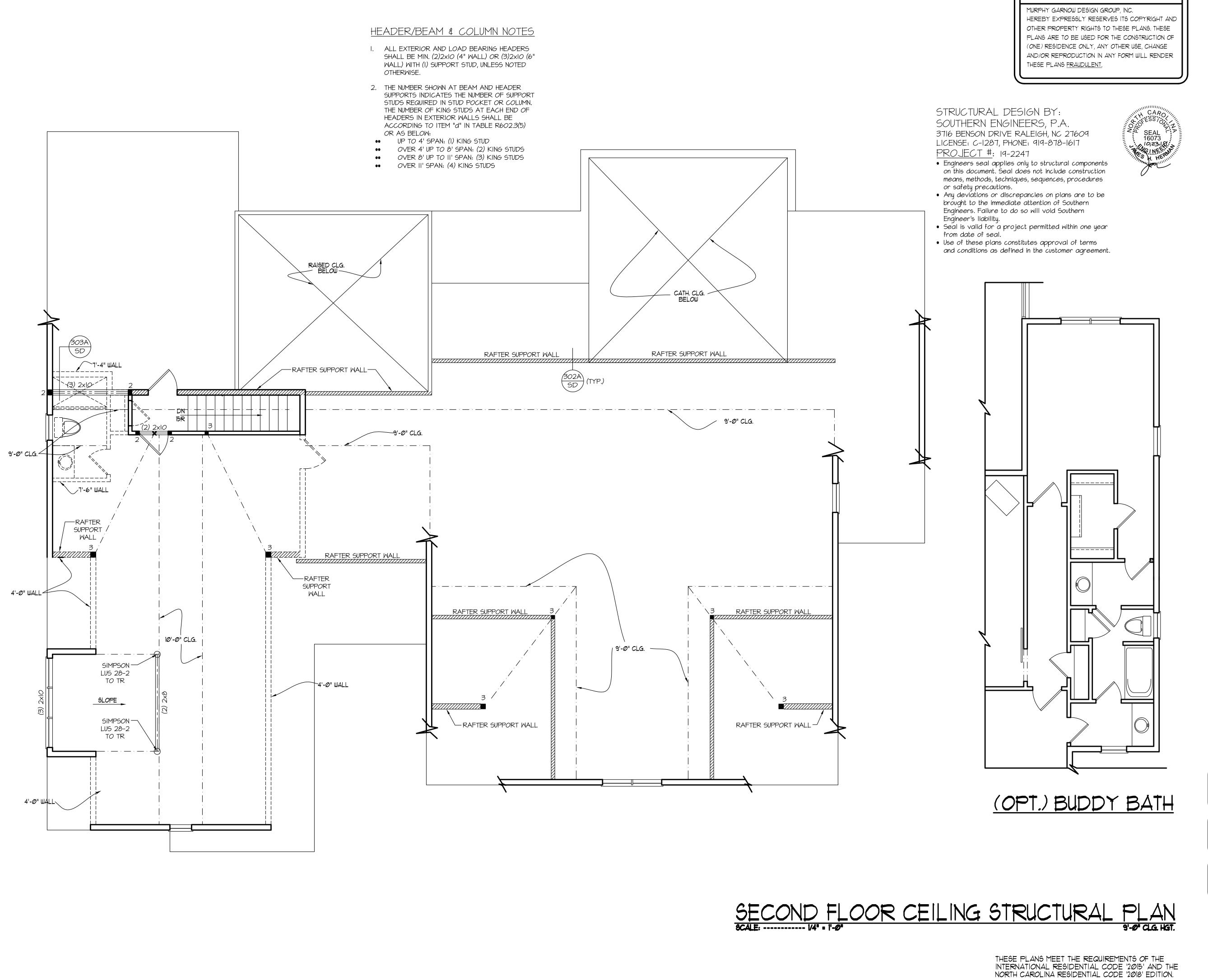
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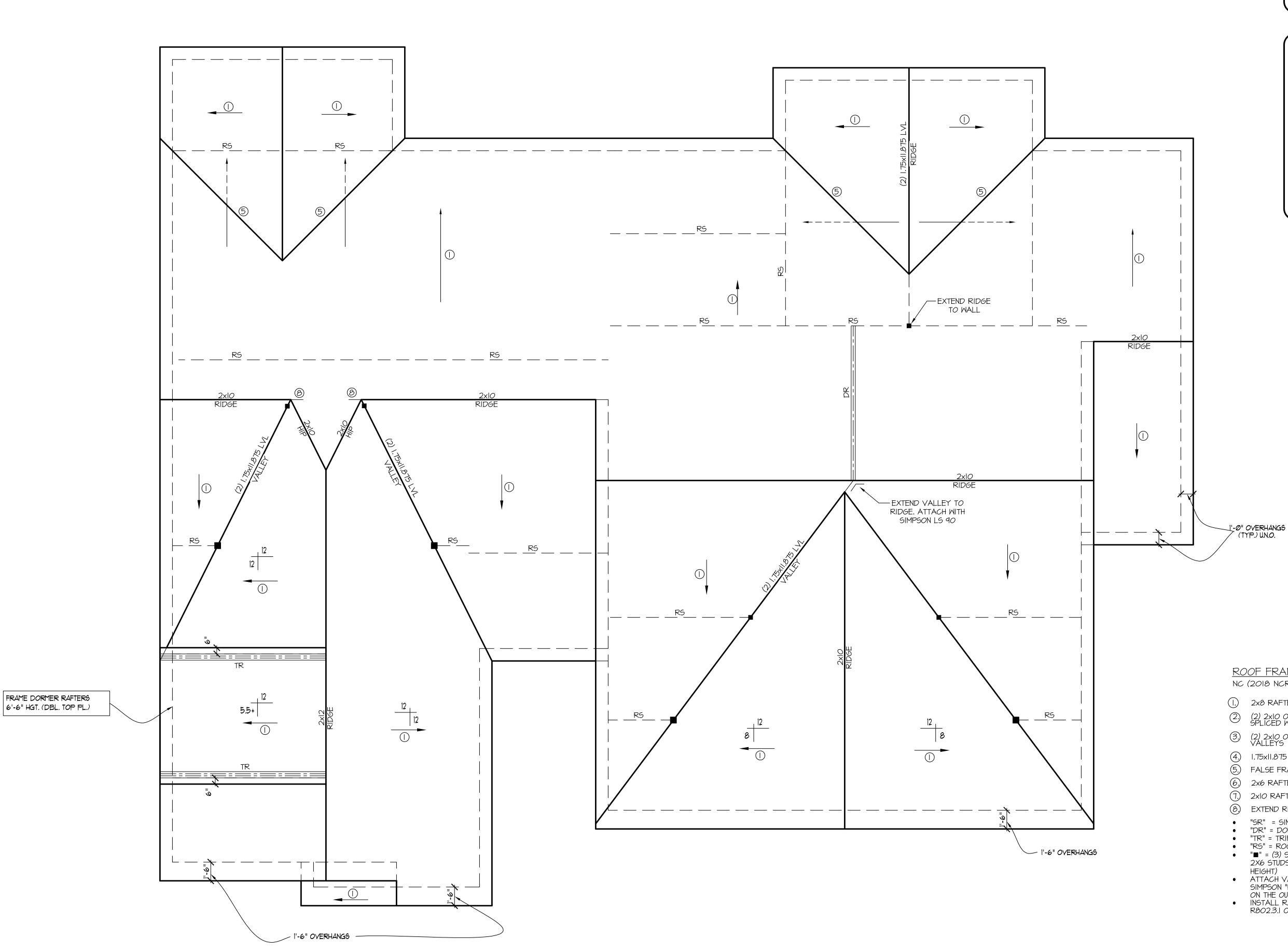
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ROOF FRAMING NOTES:

- 1) ALLROOF PITCHES TO BE 6/12 (TYP.) U.N.O. 2) PROVIDE 2x4 COLLAR BEAMS EVERYOTHER RAFTER (TYP.)
- 3) PROVIDE "HURRICANE CLIPS" AT ALL VALLEYS AND OPPPOSING DBL. RAFTERS
- 4) PROVIDE DBL. HEADERS ABD TRIMMERS AT ALL ROOF OPENINGS (EX: DORMERS, SKYLIGHTS, CHIMNEYS,ETC.)
- 5) 2x8 RAFTERS @ CATH. OR VAULTED CLGS. TO BE FURRED DOWN 2" OR USE 2x10 RAFTERS (VERIFY BRNG.HGT.) FOR PROPER INSULATION
- 6) VERIFY ALL RAFTER BRNG. HGTS. BEFORE CONSTR. HAS BEGUN

FRAME 8/12 RAFTERS ON A 3.5" KNEEWALL & 12/12 RAFTERS ONA 1.5" KNEEWALL TO ALIGN SOFFITS WITH 6/12 SOFFITS. (VERIFY W/BUILDER.)



STRUCTURAL DESIGN BY: SOUTHERN ENGINEERS, P.A. 3716 BENSON DRIVE RALEIGH, NC 27609 LICENSE: C-1287, PHONE: 919-878-1617 PROJECT #: 19-2247

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- Use of these plans constitutes approval of terms and conditions as defined in the customer agreement.

ROOF FRAMING NOTES: NC (2018 NCRC): Wind: 115-120 mph

- 1. 2x8 RAFTERS @ 16" O.C. WITH 2x10 RIDGE, UNO.
- (2) 2xIO OR 1.75xII.875 LVL HIP. (2) 2xIO HIPS MAY BE SPLICED WITH A MIN. 6'-O" OVERLAP AT CENTER
- (2) 2×10 OR 1.75×9.25 LVL VALLEY. DO NOT SPLICE VALLEYS
- 4) 1.75x11.875 LVL OR (2)1.75x9.25 LVL VALLEY
- (5.) FALSE FRAME VALLEY ON 2x10 FLAT PLATE (6) 2x6 RAFTERS @ 16" O.C. W/ 2x8 RIDGE, UNO.
- (7) 2xIO RAFTERS @ I6" O.C. W 2xI2 RIDGE, UNO.
- (8) EXTEND RIDGE 12" BEYOND INTERSECTION
- "SR" = SINGLE RAFTER "DR" = DOUBLE RAFTER
- "TR" = TRIPLE RAFTER "RS" = ROOF SUPPORT
- "■" = (3) STUD OR 4x4 POST FOR ROOF SUPPORT (USE 2X6 STUDS OR 6X6 POST FOR SUPPORT OVER 10'-0" IN
- ATTACH VAULTED RAFTERS WITH HURRICANE CLIPS: SIMPSON "H-2.5A" OR EQUIVALENT. TIES TO BE INSTALLED
- ON THE OUTSIDE FACE OF FRAMING.

 INSTALL RAFTER TIES AND COLLAR TIES PER SECTION R802.3.I OF THE 2018 NC RESIDENTIAL CODE.

THESE PLANS MEET THE REQUIREMENTS OF THE INTERNATIONAL RESIDENTIAL CODE '2015' AND THE NORTH CAROLINA RESIDENTIAL CODE '2018' EDITION.

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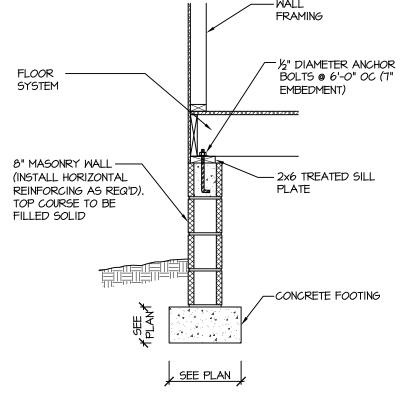
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STRUCTURAL NOTES

NC (2018 NCRC): Wind: 115-120 mph

- I. ENGINEER'S SEAL APPLIES ONLY TO STRUCTURAL COMPONENTS INCLUDING ROOF RAFTERS, HIPS, VALLEYS, RIDGES, FLOORS, WALLS, BEAMS AND HEADERS, COLUMNS, CANTILEVERS, OFFSET LOAD BEARING WALLS, PIER & GIRDER SYSTEM, FOOTING, AND PILING SYSTEM. ENGINEER'S SEAL DOES NOT CERTIFY DIMENSIONAL ACCURACY OR ARCHITECTURAL LAYOUT INCLUDING ROOF SYSTEM. ALL REQUIREMENTS FOR PROFESSIONAL CERTIFICATION SHALL BE PROVIDED BY THE APPROPRIATE PROFESSIONAL. SOUTHERN ENGINEERS, P.A. CERTIFIES ONLY THE STRUCTURAL COMPONENTS AS SPECIFICALLY STATED.
- 2. ALL CONSTRUCTION SHALL CONFORM TO THE LATEST REQUIREMENTS OF RESIDENTIAL CODE, PLUS ALL LOCAL CODES AND REGULATIONS. THE STRUCTURAL ENGINEER IS NOT RESPONSIBLE FOR, AND WILL NOT HAVE CONTROL OF, CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES, OR FOR SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE CONSTRUCTION WORK, NOR WILL THE ENGINEER BE RESPONSIBLE FOR THE CONTRACTOR'S FAILURE TO CARRY OUT THE CONSTRUCTION WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. "CONSTRUCTION REVIEW" SERVICES ARE NOT PART OF OUR CONTRACT ALL MEMBERS SHALL BE FRAMED ANCHORED, TIED AND BRACED IN ACCORDANCE WITH GOOD CONSTRUCTION PRACTICE AND THE BUILDING CODE.
- 3. DESIGN LOADS (LISTED AS: LIVE LOAD, DEAD LOAD, DEFLECTION)
- ROOMS OTHER THAN SLEEPING ROOMS: (40 PSF, IO PSF, L/360)
- SLEEPING ROOMS: (30 PSF, IO PSF, L/360)
- ATTIC WITH PERMANENT STAIR: (40 PSF, IO PSF, L/360)
- ATTIC WITHOUT PERMANENT STAIR: (20 PSF, IO PSF, L/360)
- ATTIC WITHOUT STORAGE: (10 PSF, 10 PSF, L/240)
- STAIRS: (40 PSF, IO PSF, L/360) EXTERIOR BALCONIES: (60 PSF, 10 PSF, L/360)
- DECKS: (40 PSF, 10 PSF, L/360)
- GUARDRAILS AND HANDRAILS: (200 LBS)
- PASSSENGER VEHICLE GARAGES: (50 PSF, 10 PSF, L/360)
- FIRE ESCAPES: (40 PSF, IO PSF, L/360)
- SNOW: (20 PSF)
- 4. WALLS SHALL BE BRACED BY SHEATHING WALLS ON ALL STORIES WITH WOOD STRUCTURAL PANELS. SEE FRAMING NOTES FOR THICKNESS AND NAILING REQUIREMENTS.
- 5. SEE APPENDIX M (DCA6) FOR EXTERIOR DECK REQUIREMENTS INCLUDING ATTACHMENTS FOR LATERAL LOADS.
- 6. CONCRETE SHALL HAVE A MINIMUM 28 DAY STRENGTH OF 3000 PSI AND A MAXIMUM SLUMP OF 5 INCHES UNLESS NOTED OTHERWISE (UNO). AIR 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. CONTROL JOINTS IN SLABS SHALL BE SPACED ON A GRID OF +-30 TIMES THE DEPTH (D). CONTROL JOINTS SHALL BE SAWCUT TO A DEPTH OF I/D. (I.E. 4" CONCRETE SLABS SHALL HAVE 1/4" DEEP CONTROL JOINTS SAWCUT IN SLAB ON A +-10'-0" x +-10'-0" GRID).
- 7. ALLOWABLE SOIL BEARING PRESSURE ASSUMED TO BE 2000 PSF. THE CONTRACTOR MUST CONTACT A GEOTECHNICAL ENGINEER AND THE STRUCTUAL ENGINEER IF UNSATISFACTORY SUBSURFACE CONDITIONS ARE ENCOUNTERED. THE SURFACE AREA ADJACENT 10 THE FOUNDATION WALL SHALL BE PROVIDED WITH ADEQUATE DRAINAGE, AND SHALL BE GRADED SO AS TO DRAINSURFACE WATER AWAY FROM FOUNDATION WALLS.
- 8. ALL FRAMING LUMBER SHALL BE SPF #2 (Fb = 875 PSI) UNLESS NOTED OTHERWISE (UNO). ALL TREATED LUMBER SHALL BE SYP # 2. PLATE MATERIAL MAY BE SPF # 3 OR SYP #3 (Fc(perp) = 425 PSI - MIN).
- 9. L.V.L. SHALL BE LAMINATED VENEER LUMBER: Fb=2600 PSI, Fv=285 PSI, E=1.9xI0 PSI. 9.1. P.S.L. SHALL BE PARALLEL STRAND LUMBER: Fb=2900 PSI, Fv=290 PSI, E=2.0x10 PSI. 9.2. L.S.L. SHALL BE LAMINATED STRAND LUMBER: Fb=2250 PSI, Fy=400 PSI, E=1.55xI0 PSI. INSTALL ALL CONNECTIONS PER MANUFACTURERS INSTRUCTIONS.
- IO. ALL ROOF TRUSS AND I-JOIST LAYOUTS SHALL BE PREPARED IN ACCORDANCE WITH THE SEALED STRUCTURAL DRAWINGS. TRUSSES AND I-JOISTS SHALL BE INSTALLED ACCORDING TO THE MANUFACTURE'S SPECIFICATIONS. ANY CHANGE IN TRUSS OR I-JOIST LAYOUT SHALL BE COORDINATED WITH SOUTHERN ENGINEERS.
- II. 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 SUPPORT IS CONSIDERED ADEQUATE PROVIDING 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. LAP ALL REBAR SPLICES 30 BAR DIAMETERS.
- 12. REBAR SHALL BE DEFORMED STEEL, ASTM615, GRADE 60.
- 13. FLITCH BEAMS SHALL BE BOLTED TOGETHER USING (2) ROWS OF 1/2" DIAMETER BOLTS (ASTM A325) 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.
- 14. BRICK LINTELS (WHEN REQUIRED) 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 9'-0". SEE PLANS FOR SPANS OVER 9'-O". SEE ALSO SECTION R703.7.3 LINTELS.



(SIDING OR EQUAL)

I'-O" OVERLAP

AT SPLICE (IF -

REQ'D)

RAFTERS AS

SPECIFIED

(8) IOd NAILS (MIN)

SIMPSON H2.5A

CONNECTORS

ROOF SUPPORT

ROOF BEAM AS

JOIST HANGERS OR

LEDGER PER CODE

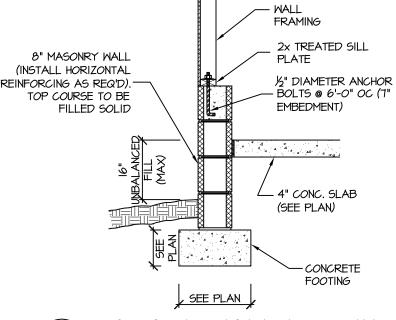
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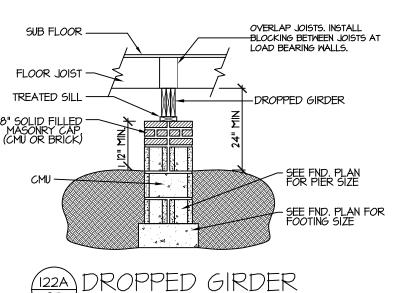
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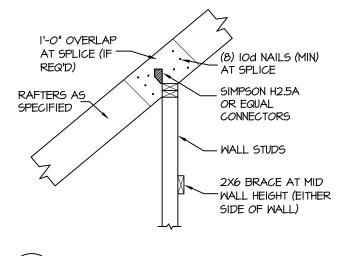
AT SPLICE

OR EQUAL



GARAGE WALL





TYPICAL RAFTER SUPPORT ON ATTIC KNEEWAL

STRUCTURAL DESIGN BY SOUTHERN ENGINEERS, P.A. 3716 BENSON DRIVE RALEIGH, NC 27609 LICENSE: C-1287, PHONE: 919-878-1617 PROJECT #: 19-2247

- Engineers seal applies only to structural components on this document. Seal does not include construction means, methods, techniques, sequences, procedures or safety precautions.
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GARNOW

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HOUSE NAME: ROSSNER

HOUSE NUMBER:

PAGE NUMBER:

(2) SIMPSON CSI6 STRAP

WITH 8d NAILS. (EXTEND TO WALL TOP PLATE AND

ATTACH KING STUD TO

SUPPORT STUDS WITH

MIN (2)2X SUPPORT STUDS —

½" ANCHOR BOLTS PER R403.1.6 WITH 2"x2"x%"

4 4 4

CS-PF: END CONDITION DETAIL

DETAIL AND APPLICATION BASED ON NORG FIGURE

(FOR USE WITH SINGLE CS-PF CONDITION)

R602.IO.I - PORTAL FRAME CONSTRUCTION

PLATE WASHERS.

AND (I) KING STUD (SEE

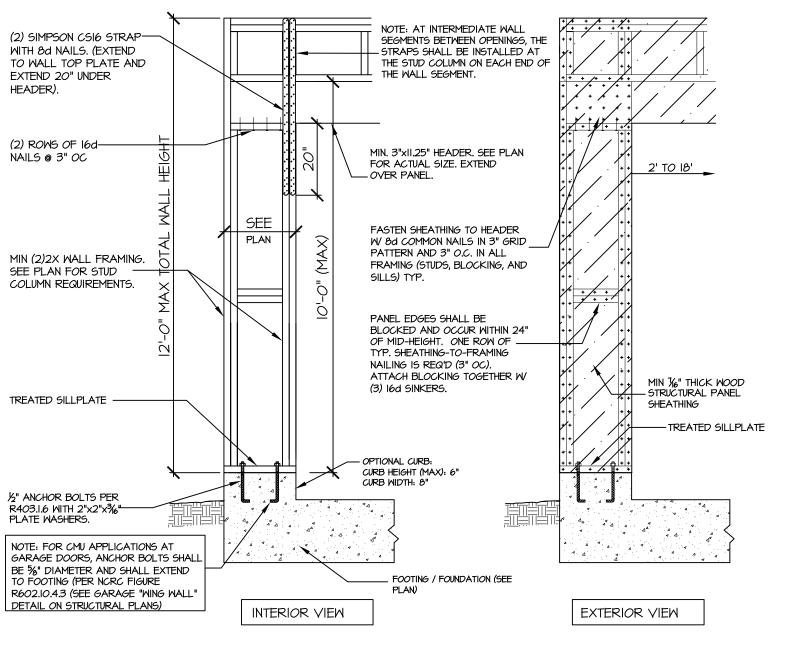
REQUIREMENTS).

PLAN FOR STUD COLUMN

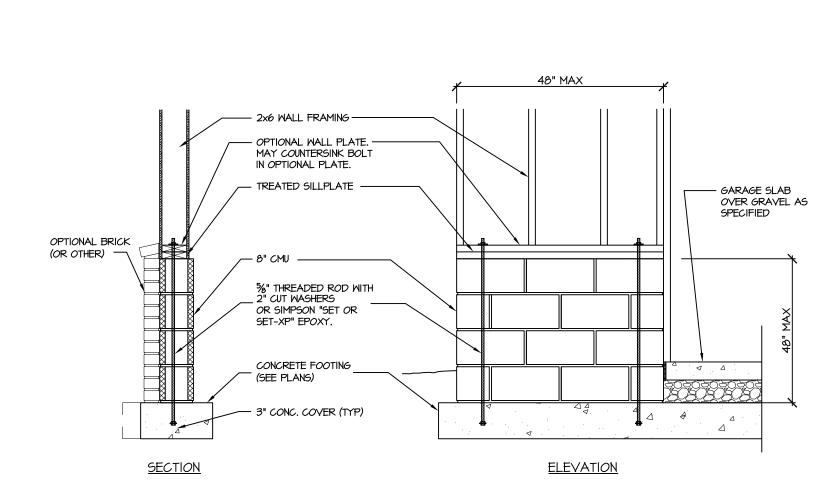
IOd NAILS @ 8" OC.

EXTEND 20" UNDER

HEADER).



CS-PF: CONTINUOUS PORTAL FRAME CONSTRUCTION DETAIL AND APPLICATION BASED ON NORC FIGURE R602.IO.I - PORTAL FRAME CONSTRUCTION



907 GARAGE 'WING WALL' REINFORCING SD / PER IRC FIGURE R602.10.4.3