

ENERGY COMPLIANCE

ZONE 3 = MAX. GLAZING U-FACTOR .35

R-VALUE = CEILING R30, WALLS R13,

FLOORS R19 FOR JOHNSTON, WAYNE COUNTY

ZONE 4 = MAX. GLAZING U-FACTOR .35

R-VALUE = CEILING R38, WALLS R15,

FLOORS R19 FOR WAKE, ORANGE COUNTY

ATTIC VENTILATION:

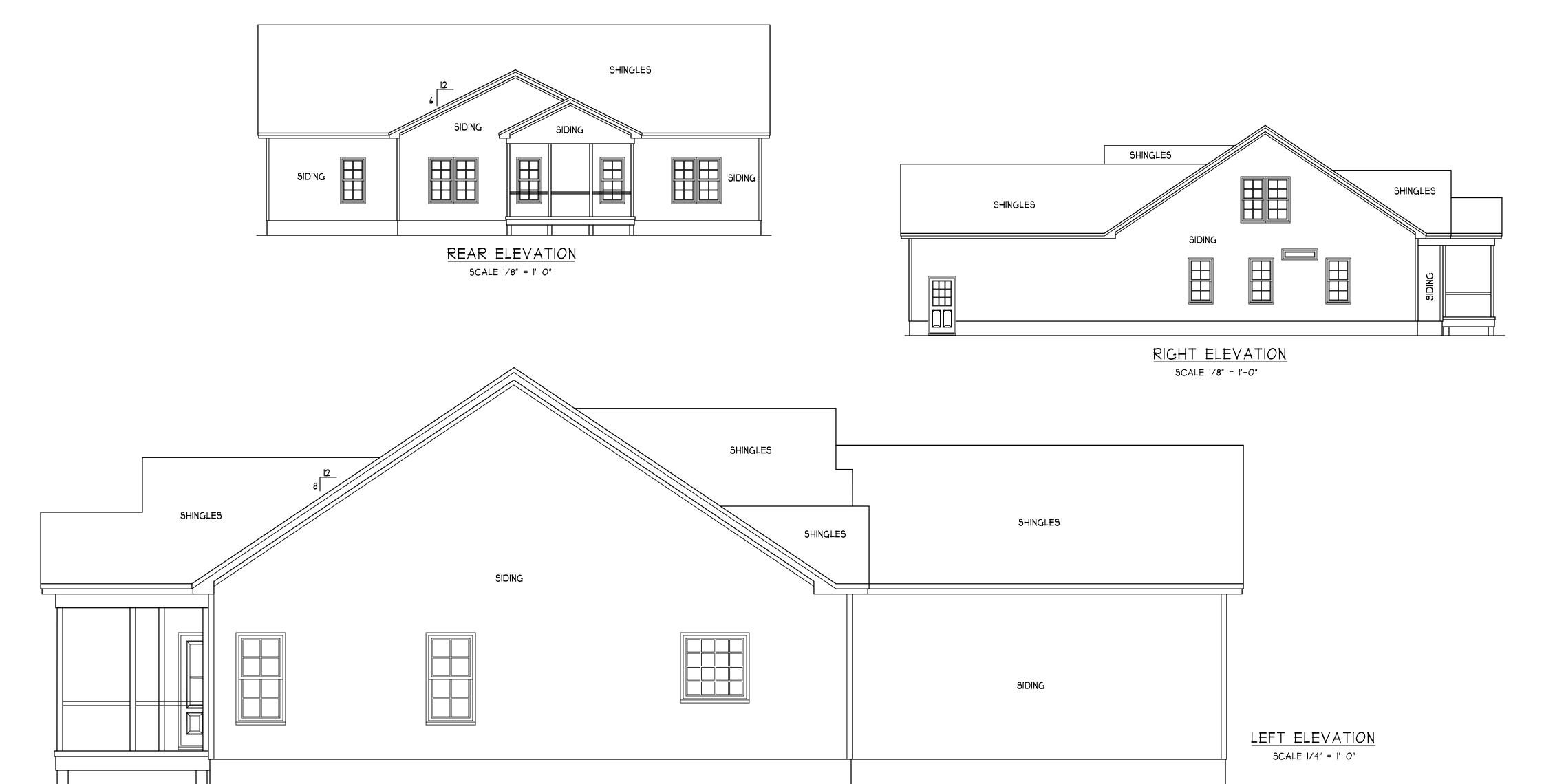
THE NET FREE VENTILATING AREA SHALL BE NOT LESS THAN I TO ISO OF THE AREA OF THE SPACE VENTILATED EXCEPT THAT THE AREA MAY BE I TO 300, PROVIDED AT LEAST 50 PERCENT OF THE REQUIRED VENTILATING AREA IS PROVIDED BY VENTILATORS LOCATED IN THE UPPER PORTION OF THE SPACE TO BE VENTILATED AT LEAST 3 FEET ABOVE EAVE OR CORNICE VENTS WITH THE BALANCE OF THE REQUIRED VENTILATION TO BE PROVIDED BY EAVE OR CORNICE VENTS.

GROSS ATTIC AREA TO BE VENTILATED 3002 SQ.FT. 3002/150 = 20.0 SQ.FT. NET FREE AREA



FRONT ELEVATION

SCALE 1/4" = 1'-0"



#2563

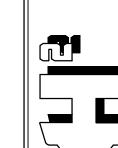
DEWE

TRIMSTERS

FIRST FLOOR
REC ROOM
COVERED PORCHES

HEATHER HALL 165 HEATHERSTONE CT BENSON, NC 27504

H SQUARED HOME DESIGN, INC.



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THIS PLAN HAS BEEN DRAWN IN ACCORDANCE WITH NORTH CARCING SOIZ EDITION.

I STORY

021317



STRUCTURAL DESIGN BY:
SOUTHERN ENGINEERS, P.A.
3716 BENSON DR., RALEIGH, NC 27609
LICENSE: C-1287, PHONE: 919-878-1617
PROJECT # 17-1130

* 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 Engineer's liability

* Seal is valid for a project permitted one

year from date of seal.
Use of these plans constitutes approval of terms to conditions as defined in the customer agreement.

REFER TO "SD" SHEET(S)
FOR STANDARD DETAILS
AND STRUCTURAL NOTES.

FOUNDATION STRUCTURAL NOTES:

(IOO MPH WIND ZONE) (I) (3) 2 x IO SPF #2 GIRDER, TYPICAL UNO.

24 x 24 UP TO 96" HIGH
WITH 30" x 30" x 10" CONCRETE FOOTING, UNO.

3 WALL FOOTING AS FOLLOWS:

DEPTH: 8" - UP TO 2-1/2 STORY IO" - 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
- 24" - 3 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.

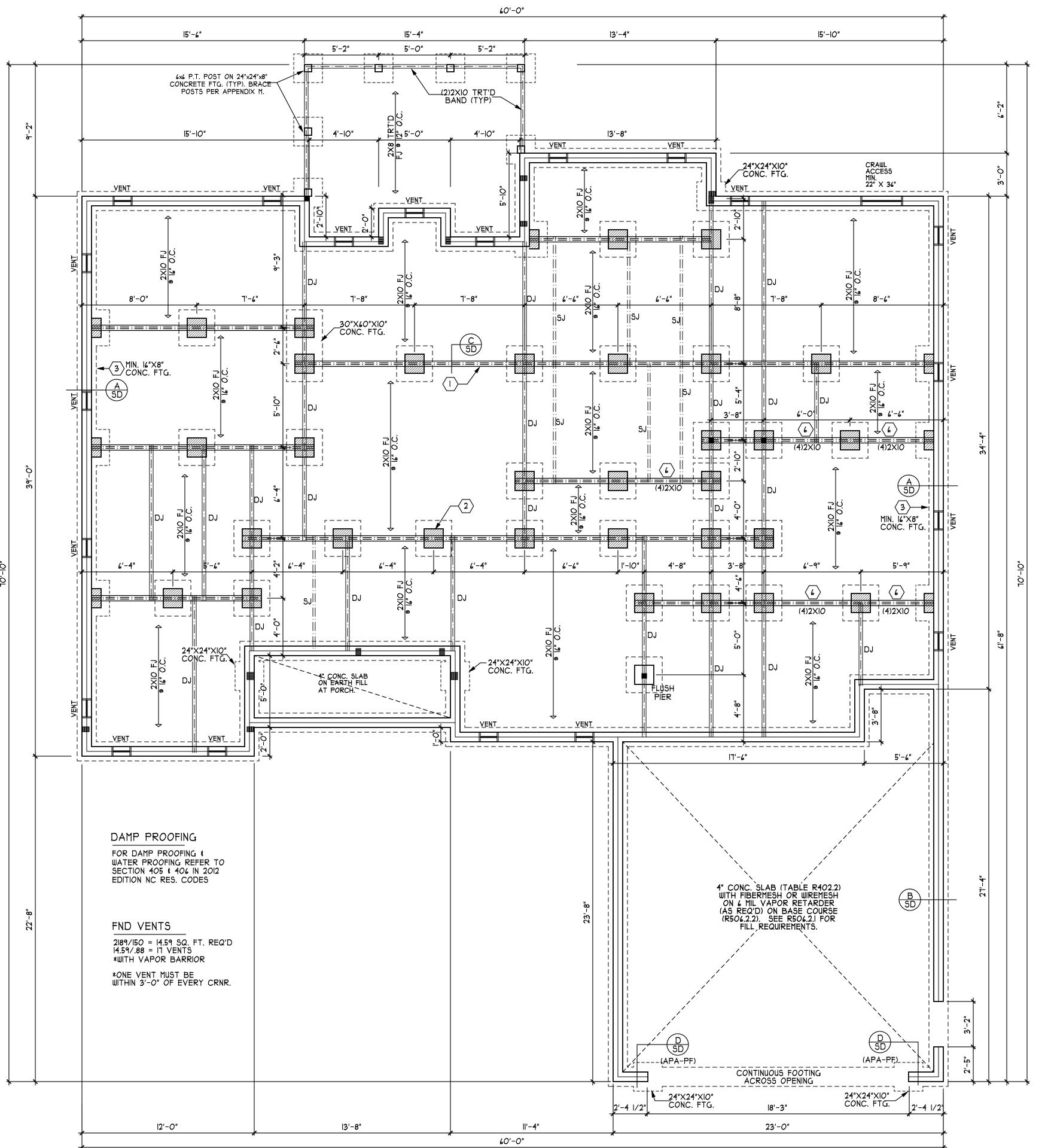
ATTACH SILL PLATE WITH 1/2"dia. ANCHOR BOLTS AT 6'-O" CENTERS (1" EMBEDMENT) AND 12" FROM EACH PLATE END. (SECTION R 403.1.6)

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.

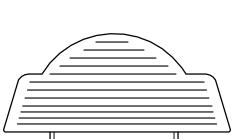
5 ABBREVIATIONS: "SJ" = SINGLE JOIST

"DJ" = DOUBLE JOIST
"TJ" = TRIPLE JOIST

 $\langle \underline{6} \rangle$ (4) 2 x IO SPF #2 GIRDER.







THE DEWEY"
TRIMSTERS

"THE

HEATED FOOTAGE:

#2563

= 2189 = 374 RCHES = 249 = 564

SQUARE FOOTAGE:
FIRST FLOOR
REC ROOM
COVERED PORCHE

HEATHER HALL
165 HEATHERSTONE CT
BENSON, NC 27504
(919) 207-1403

H SQUARED HOME DESIGN, INC.

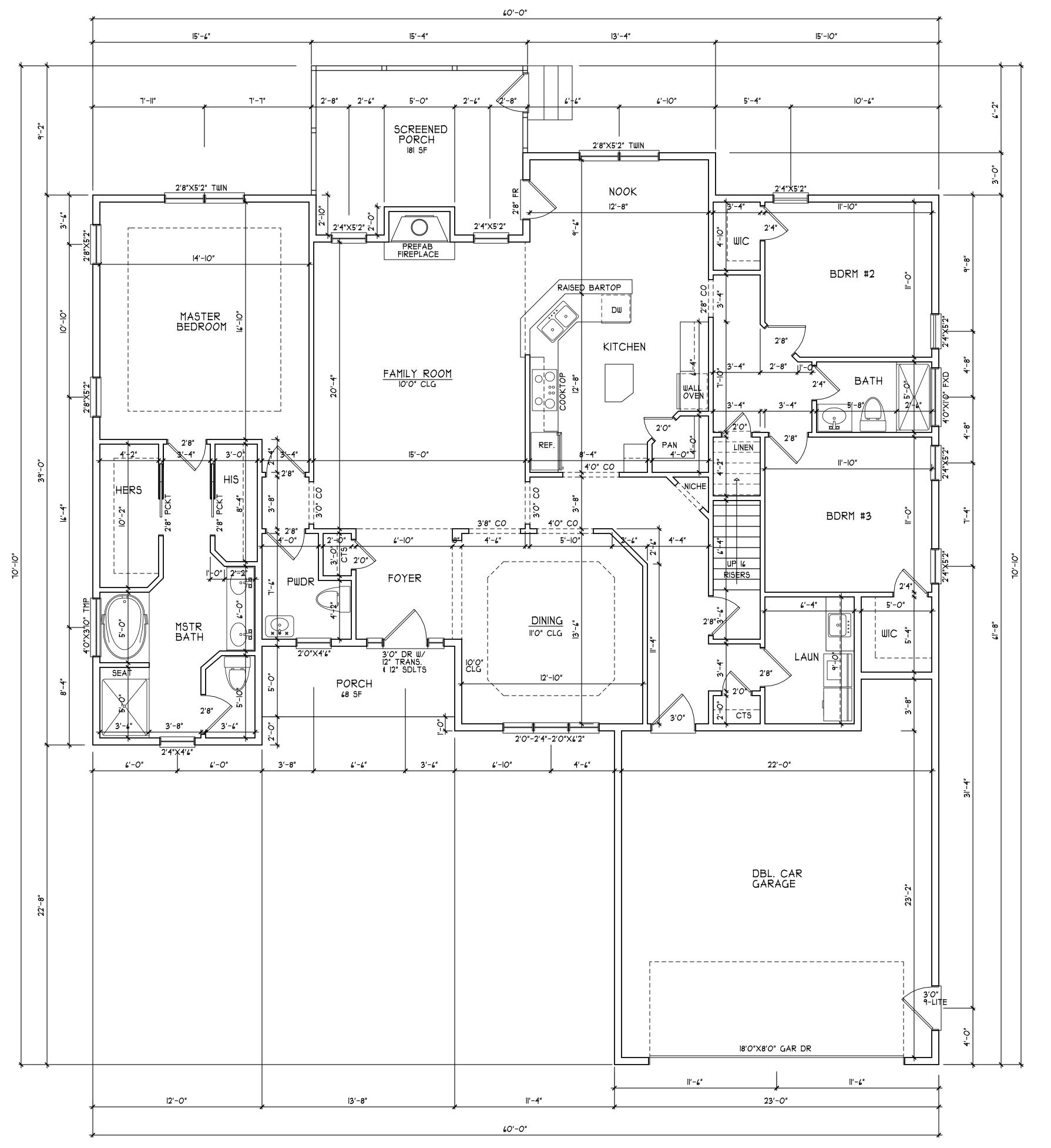
DEVIATION OF THIS PLAN, DIMENSIONS
OTHERWISE, H SQUARED HOME DESIGN,
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CAROLINA STATE RESIDENTIAL
BUILDING CODES 2012 EDITION.

DATE:

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FIRST FLOOR PLAN SCALE 1/4" = 1'-0"

DEWEY" TRIMSTERS

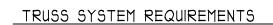
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DATE: 02/23/17

I STORY

FILE: 02|3|7

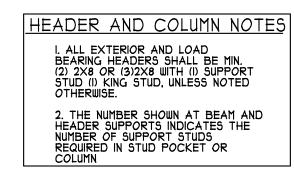


I. TRUSS SYSTEM LAYOUTS (PLACEMENT PLANS) SHALL BE DESIGNED IN ACCORDANCE WITH SEALED STRUCTURAL PLANS. ANY NEED TO CHANGE TRUSSES SHALL BE COORDINATED WITH SOUTHERN ENGINEERS.

2. TRUSS SCHEMATICS (PROFILES) SHALL BE PREPARED AND SEALED BY TRUSS MANUFACTURER.

3. ALL TRUSSES SHALL BE DESIGNED FOR BEARING ON SPF #2 OR #3 PLATES OR LEDGERS

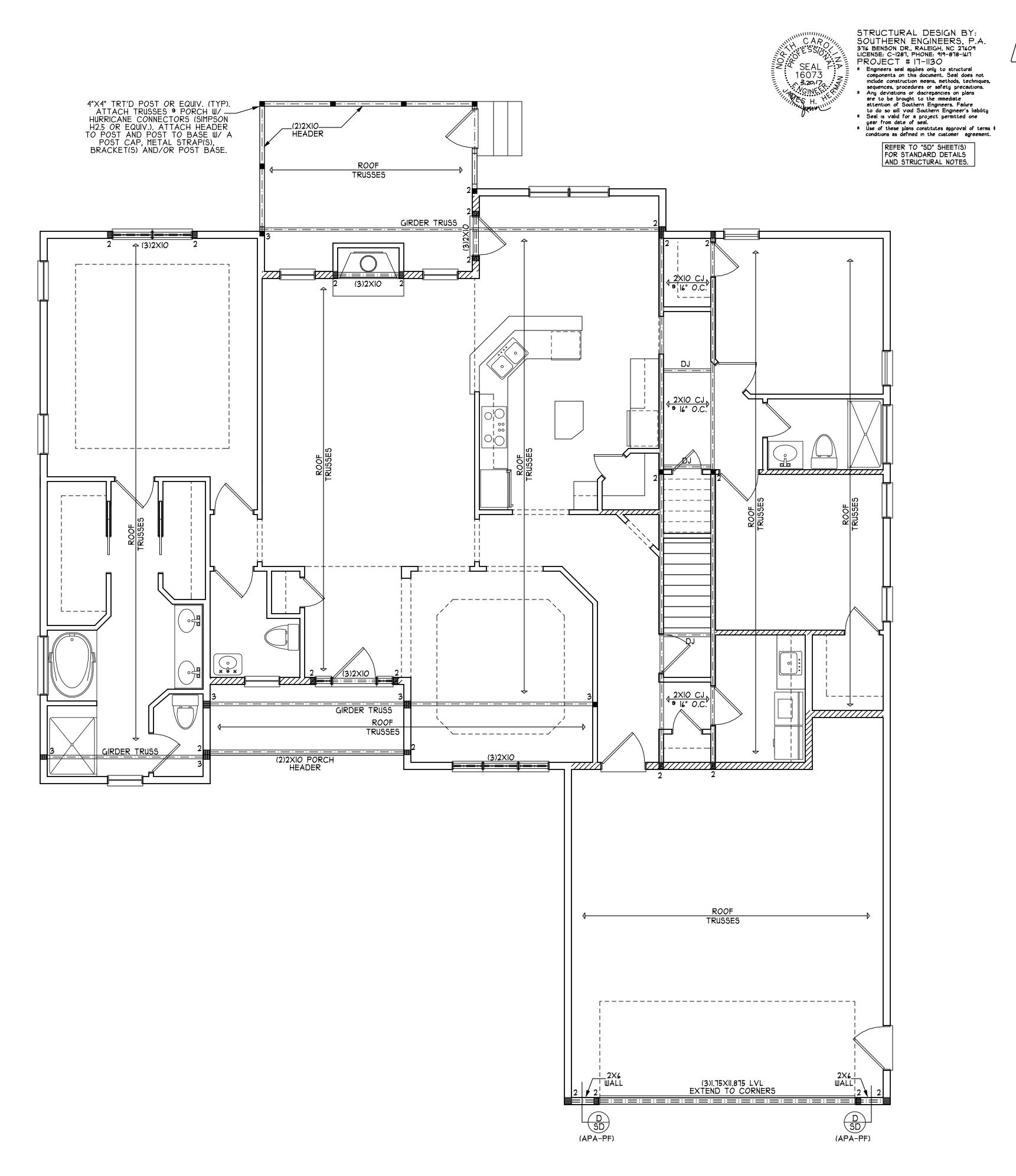
4. ALL REQUIRED ANCHORS FOR TRUSSES DUE TO UPLIFT OR BEARING SHALL MEET THE REQUIREMENTS AS SPECIFIED ON THE TRUSS SCHEMATICS.



WALL BRACING NOTES: (100 MPH)

- 1. WALL BRACING ANALYSIS BASED ON R602.10 CODE AND COMMENTARY FOR 2012 NC RESIDENTIAL CODE (FINAL 03-06-2013: EFFECTIVE DATE SEPTEMBER 1, 2013).
- 2. NOTE THAT THE WALL BRACING AMOUNT PROVDED ON THE PLANS (DETAILS AND SPECIFICATIONS) IS GREATER THAN THE AMOUNT OF WALL BRACING REQUIRED BY THE CODE. SEE NOTES BELOW FOR DETAILS AND SPECIFICATIONS FOR WALL BRACING.
- 3. BRACING METHOD AND TYPE: CONTINUOUS SHEATHING PER SECTIN R602.10.3 USING WSP (WOOD STRUCTURAL PANEL SHEATHING).
- 4. EXTERIOR WALL SHEATHING: SHEATH EXTERIOR WALLS WITH $lac{1}{16}$ " WSP (WOOD STRUCTURAL PANEL) SHEATHING AND ATTACH WITH 8d NAILS AT A 6'/12' NAILING PATTERN (6' OC AT PANE EDGES AND 12' OC AT INTERMEDIATE SUPPORTS). INSTALL BLOCKING AT ALL PANEL EDGES. (USP SHEATHING SHALL EXTEND TO UPPERMOST DOUBLE BEARING PLATE). BLOCK AT ROOF PER R602.10.5.5.
- 5. MINIMUM WALL LENGTHS ARE BASED ON TABLE R602.10.1 ND ARE TO BE LOCATED AS SPECIFIED IN SECTION R602.10.3.2.
- 6. HD HOLD DOWN DEVICE (NOTED AS "HD" ON PLANS) SHALL BE AN 800 POUND CAPACITY ASSEMBLY.

 15T FLOOR: (2) SIMPSON SSP (SEE "HD" HOLD-DOWNDETAIL) • 2ND FLOOR: ATTACH BASE OF KING STUD WITH A SIMPSON C522 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 EACHEND W/ (7) 8d NAILS.
- 1. INTERIOR BRACED WALL: (NOTED AS 'IBW' ON PLANS) ATTACH 1/2' GYPSUM BOARD ON EACH SIDE OF WALL WITH A MIN. OF 5d COOLER NAILS OR *6 SCREWS ® 1' O.C. ALONG THE EDGES AND AT INTERMEDIATE SUPPORTS.
- 7.1. INTEIOR BRACED WALL WOOD STRUCTURAL PANELS: (NOTED AS 'IBW-WSP' ON PLANS) ATTACH 3/8' (MIN) WOOD STRUCTURAL PANEL SHEATHING ON ONE SIDE OF WALL. ATTACH WITH 6d COMMON NAILS AT 6'/12' NAILING PATTERN (6' AT EDGES AND 12' AT INERMEDIATE SUPPORTS). INTERIOR BRACED WALLS SHALL BE CONNECTED AS
- DESCRIBED IN R602.10.5.4 AND FIGURES CR602.10.5.4(1) AND CR602.10.5.4(2).



FIRST FLOOR STRUCTURAL PLAN SCALE 1/4'' = 1'-0''

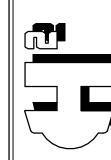
TRIMSTERS

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HEATHER HALL 5 HEATHERSTONE (SENSON, NC 27504 (919) 207-1403

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AN OR O. DATE:

02/23/17

I STORY FILE: 02|3|7

TRUSS SYSTEM REQUIREMENTS I. TRUSS SYSTEM LAYOUTS (PLACEMENT PLANS) SHALL BE DESIGNED IN ACCORDANCE WITH SEALED STRUCTURAL PLANS. ANY NEED TO CHANGE TRUSSES SHALL BE COORDINATED WITH SOUTHERN ENGINEERS. 2. TRUSS SCHEMATICS (PROFILES) SHALL BE PREPARED AND SEALED BY TRUSS

MANUFACTURER. 3. ALL TRUSSES SHALL BE DESIGNED FOR BEARING ON SPF #2 OR #3 PLATES OR LEDGERS

4. ALL REQUIRED ANCHORS FOR TRUSSES DUE TO UPLIFT OR BEARING SHALL MEET THE REQUIREMENTS AS SPECIFIED ON THE TRUSS SCHEMATICS.

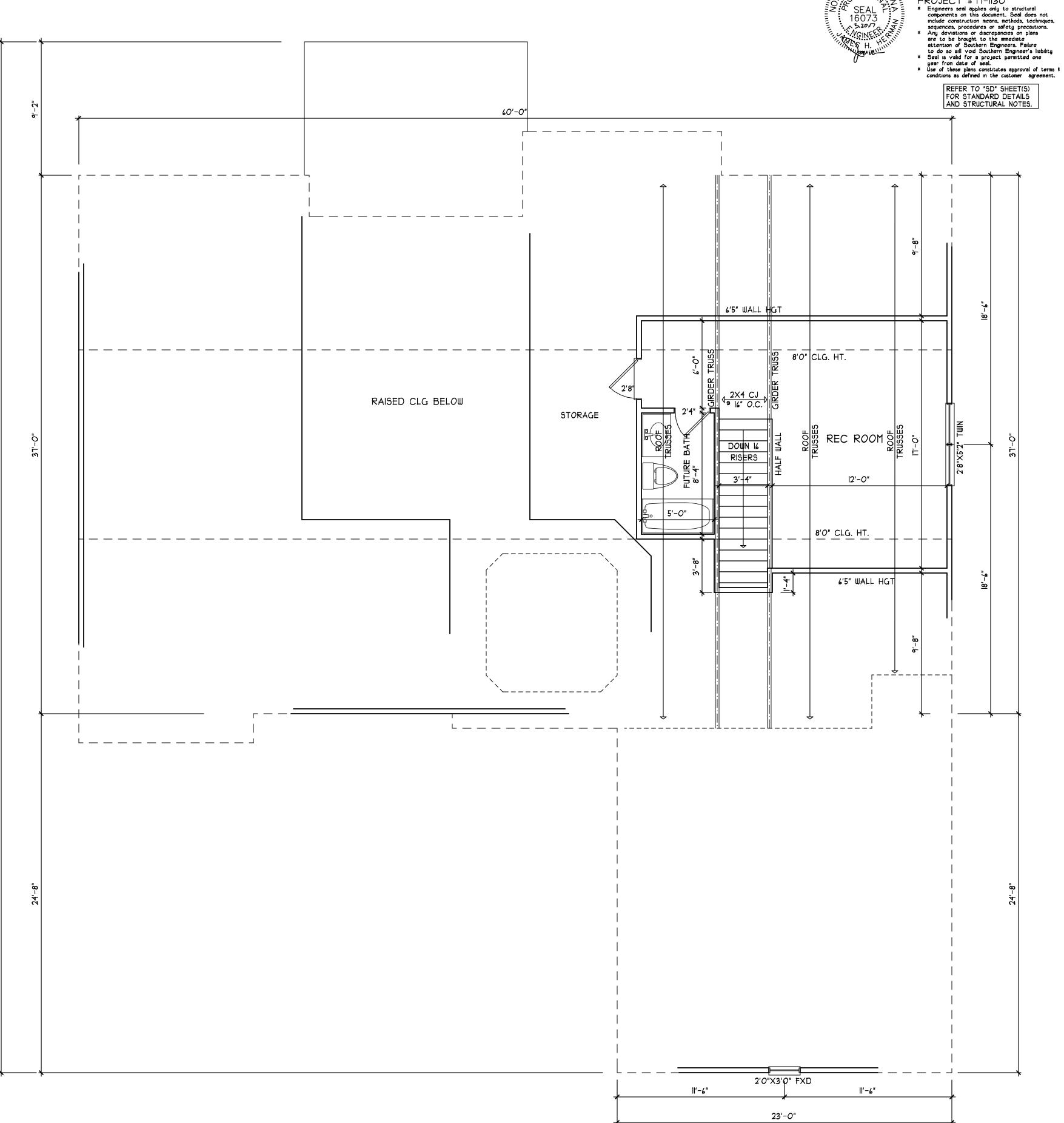
HEADER AND COLUMN NOTES I. ALL EXTERIOR AND LOAD BEARING HEADERS SHALL BE MIN. (2) 2X8 OR (3)2X8 WITH (I) SUPPORT STUD (I) KING STUD, UNLESS NOTED OTHERWISE. 2. THE NUMBER SHOWN AT BEAM AND HEADER SUPPORTS INDICATES THE NUMBER OF SUPPORT STUDS REQUIRED IN STUD POCKET OR COLUMN

WALL BRACING NOTES: (100 MPH)

- 1. WALL BRACING ANALYSIS BASED ON R602.10 CODE AND COMMENTARY FOR 2012 NC RESIDENTIAL CODE (FINAL 03-06-2013: EFFECTIVE DATE SEPTEMBER 1, 2013).
- 2. NOTE THAT THE WALL BRACING AMOUNT PROVDED ON THE PLANS (DETAILS AND SPECIFICATIONS) IS GREATER THAN THE AMOUNT OF WALL BRACING REQUIRED BY THE CODE. SEE NOTES BELOW FOR DETAILS AND SPECIFICATIONS FOR WALL BRACING.
- 3. BRACING METHOD AND TYPE: CONTINUOUS SHEATHING PER SECTIN R602.10.3 USING WSP (WOOD STRUCTURAL PANEL SHEATHING).
- 4. EXTERIOR WALL SHEATHING: SHEATH EXTERIOR WALLS WITH $\frac{1}{6}$ ' WSP (WOOD STRUCTURAL PANEL) SHEATHING AND ATTACH WITH 80 NAILS AT A 6'/12' NAILING PATTERN (6' OC AT PANE EDGES AND 12' OC AT INTERMEDIATE SUPPORTS). INSTALL BLOCKING AT ALL PANEL EDGES. (WSP SHEATHING SHALL EXTEND TO UPPERMOST DOUBLE BEARING PLATE), BLOCK AT ROOF PER R602.10.5.5.
- 5. MINIMUM WALL LENGTHS ARE BASED ON TABLE R602.10.1 ND ARE TO BE LOCATED AS SPECIFIED IN SECTION R602.10.32.
- 6. HD HOLD DOWN DEVICE (NOTED AS "HD" ON PLANS) SHALL BE AN 800 POUND CAPACITY ASSEMBLY.
 IST FLOOR: (2) SIMPSON SSP (SEE "HD" HOLD-DOWNDETAIL)
- 2ND FLOOR: ATTACH BASE OF KING STUD WITH A SIMPSON C522 STRAP DOWN ACROSS THE BAND AND DOWN TO A STUD BELOW OR HEADER BELOW. EXTEND STRAP 1" MIN ALONG EACH STUD (OR HEADER) AND ATTACH EACHEND W/ (1) 8d NAILS.
- 7. INTERIOR BRACED WALL: (NOTED AS "IBW" ON PLANS) ATTACH
- COOLER NAILS OR *6 SCREWS @ 7' O.C. ALONG THE EDGES AND AT INTERMEDIATE SUPPORTS.

 1.1. INTEIOR BRACED WALL - WOOD STRUCTURAL PANELS:
 (NOTED AS 'IBW-WSP' ON PLANS) ATTACH 3/8' (MIN) WOOD
 STRUCTURAL PANEL SHEATHING ON ONE SIDE OF WALL.
- ATTACH WITH 6d COMMON NAILS AT 6'/12' NAILING PATTERN (6' AT EDGES AND 12' AT INERMEDIATE SUPPORTS). INTERIOR BRACED WALLS SHALL BE CONNECTED AS

DESCRIBED IN R602.10.5.4 AND FIGURES CR602.10.5.4(1) AND CR602.10.5.4(2).



SECOND FLOOR PLAN

SCALE 1/4" = 1'-0"

STRUCTURAL DESIGN BY:

SOUTHERN ENGINEERS, P.A.
3716 BENSON DR., RALEIGH, NC 27609
LICENSE: C-1287, PHONE: 919-878-1617
PROJECT # 17-1130

TRIMSTERS

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2189 374 249 564

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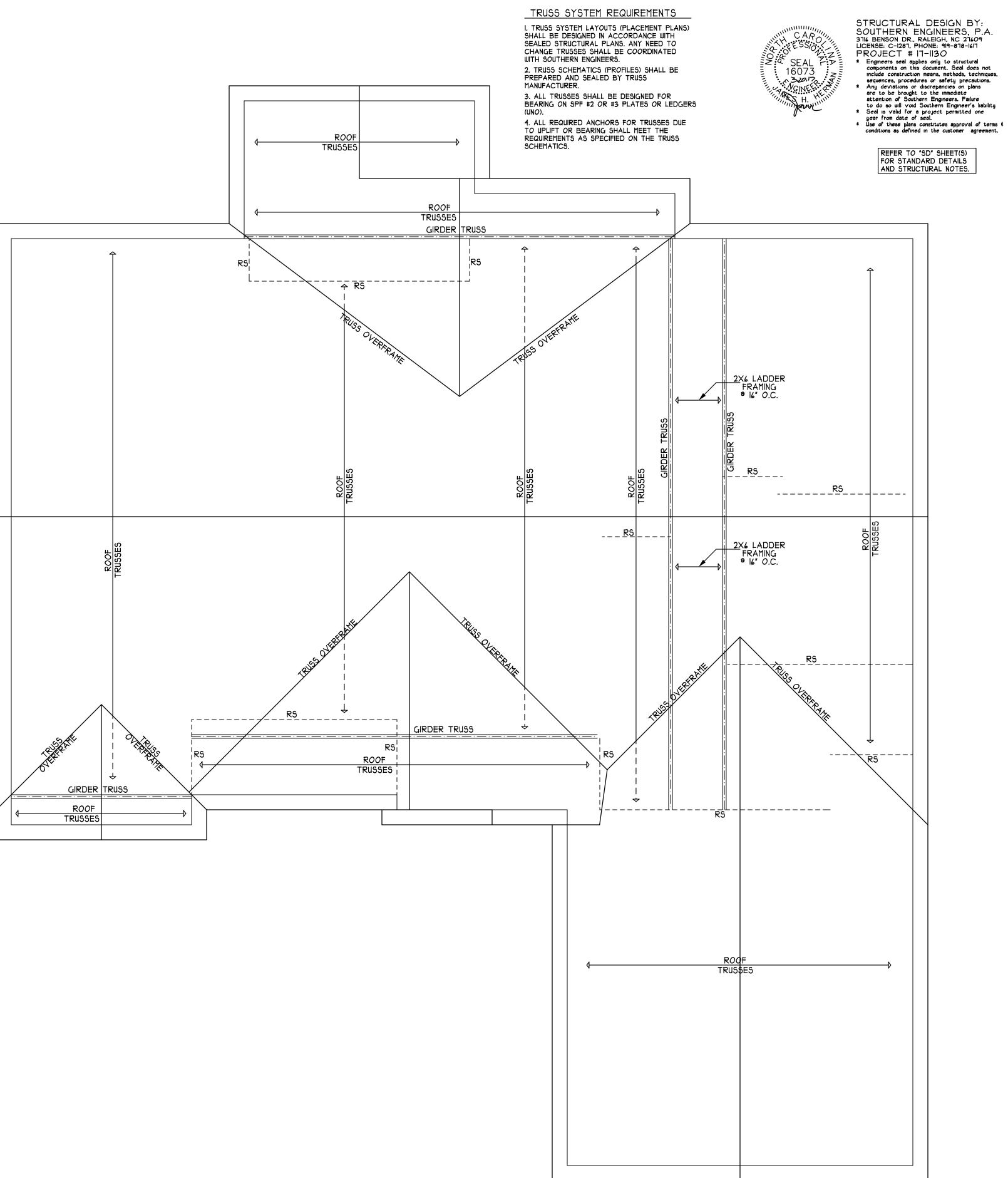
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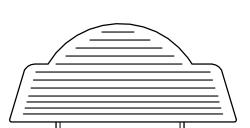
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DATE:

FILE: 02|3|7

02/23/17



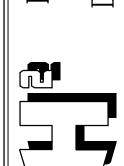


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FILE: 02|3|7 1) ENGINEER'S SEAL APPLIES ONLY TO STRUCTURAL COMPONENTS INCLUDING ROOF RAFTERS, HIPS, VALLEYS, RIDGES, FLOORS, WALLS, BEAMS AND HEADERS, COLUMNS, CANTILEVERS, OFFSET LOAD BEARING WALLS, PIER & GIRDER SYSTEM AND FOOTINGS. ENGINEER'S SEAL 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 THE NORTH CAROLINA STATE RESIDENTIAL CODE - 2012 EDITION (2009 IRC), 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 (R3Ø1.4) (LISTED AS: LIVE LOAD, DEAD LOAD, DEFLECTION LIMIT) ROOMS OTHER THAN SLEEPING ROOMS: (40 PSF, 10 PSF, L/360)
SLEEPING ROOMS: (30 PSF, 10 PSF, L/360)
ATTIC WITH PERMANENT STAIR: (40 PSF, 10 PSF, L/360)
ATTIC WITH OUT PERMANENT STAIR: (20 PSF, 10 PSF, L/360)
ATTIC WITH OUT STORAGE: (10 PSF, 10 PSF, L/240)
STAIRS: (40 PSF, --, L/360)
EXTERIOR BALCONIES: (60 PSF, 10 PSF, L/360)
DECKS: (40 PSF, 10 PSF, L/360)
GUARDRAILS AND HANDRAILS: (200 LBS)
PASSENGER VEHICLE GARAGES: (50 PSF, 10 PSF, L/360)
FIRE ESCAPES: (40 PSF, 10 PSF, L/360)
SNOW: (20 PSF)

WIND LOAD: (BASED ON 100 MPH WIND VELOCITY)

4) WALL BRACING: WALLS SHALL BE BRACED ACCORDING TO R602.10- CODE AND COMMENTARY FOR 2012 NC RESIDENTIAL CODE (FINAL 03-06-2013: EFFECTIVE DATE SEPTEMBER 1, 2013). NOTE THAT THE BRACING AS SPECIFIED ON THE PLANS IS BASED ON THE PRESCRIPTIVE BRACING REQUIREMENTS OF THE CODE AND SHALL BE VERIFIED AND/OR APPROVED BY THE CODE OFFICIAL.

5) 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 4022. 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.

6) 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.

1) 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)

8) ALL WOODEN BEAMS AND HEADERS SHALL HAVE THE FOLLOWING END SUPPORTS: (1) 2x4 STUD COLUMN FOR 6'-0" MAX. BEAM SPAN (UNO), (2) 2x4 STUDS FOR BEAM SPAN GREATER THAN 6'-0" (UNO).

9) 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 MANUFACTURERS INSTRUCTIONS.

10) 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 MANUFACTURE'S SPECIFICATIONS. ANY CHANGE IN TRUSS OR 1-JOIST LAYOUT SHALL BE COORDINATED WITH SOUTHERN ENGINEERS.

11) 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 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.

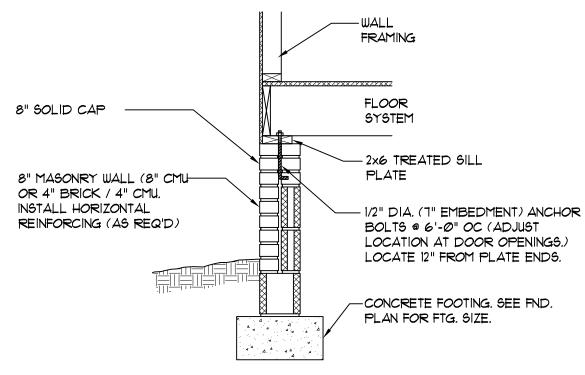
12) REBAR SHALL BE DEFORMED STEEL, ASTM615, GRADE 60.

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.

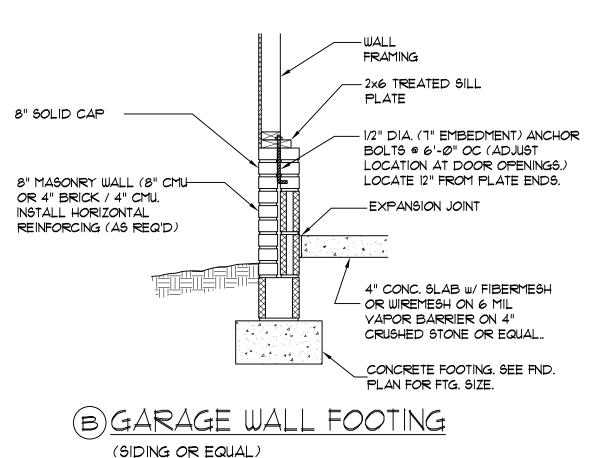
14) BRICK LINTELS SHALL BE 3 1/2"x3 1/2"x1/4" STEEL ANGLE FOR UP TO 6'-0" SPAN AND 6"x4"x5/16" STEEL ANGLE WITH 6" LEG VERTICAL FOR SPANS UP TO 9'-0" (UNO).

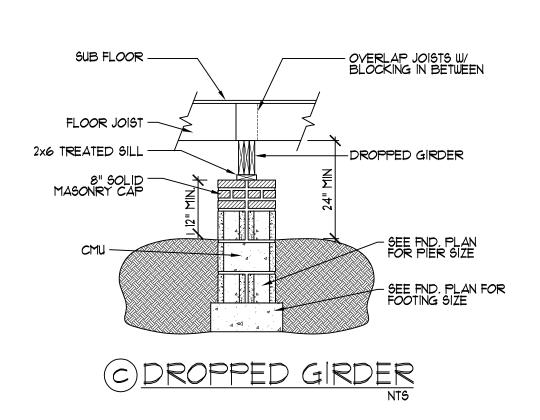
15) THE POSITIVE AND NEGATIVE DESIGN PRESSURE FOR DOORS AND WINDOWS FOR A MEAN ROOF HEIGHT OF 35 FEET OR LESS SHALL BE 25 PSF. THE POSITIVE AND NEGATIVE DESIGN PRESSURES REQUIRED FOR ANY ROOF OR WALL CLADDING APPLICATION NOT SPECIFICALLY ADDRESSED IN THE NORTH CAROLINA STATE RESIDENTIAL CODE - 2012 EDITION SHALL BE AS FOLLOWS: :

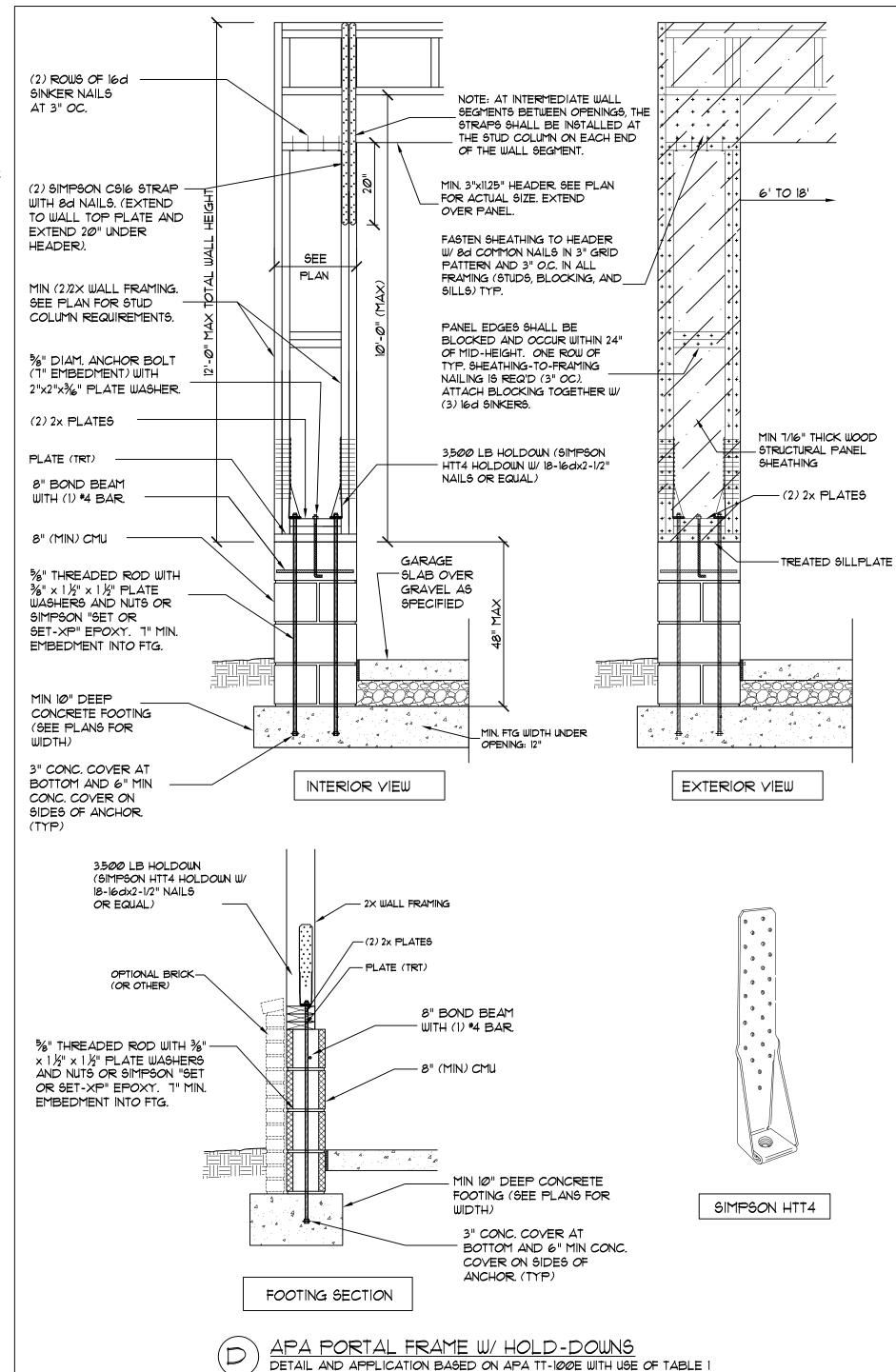
ROOF 45.4 PSF - 2.25:12 PITCH OR LESS 34.8 PSF - 2.25:12 TO 1:12 PITCH 21 PSF - 1:12 TO 12:12 PITCH : WALLS 24.1 PSF - WALLS



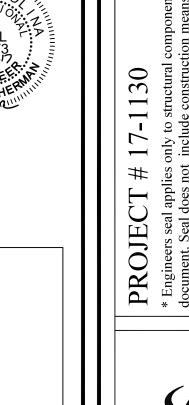
(SIDING OR FOLIAL)







FOR APA PORTAL FRAME WITH HOLD-DOWN CAPACITIES.



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Raleigh, l License: C128

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JESIGN, INC.
165 HEATHERSTONE COUR
BENSON, NC 27504
919-207-1403

THE DEWEY
TRIMSTERS, INC.

SD