

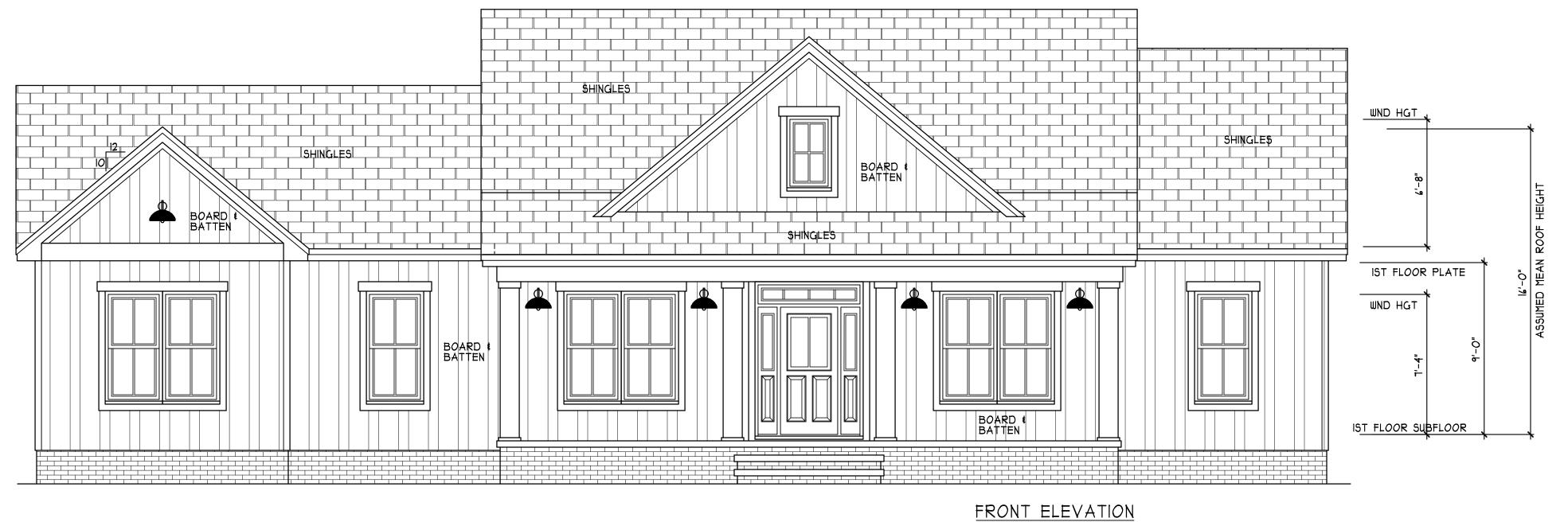
RESIDENCE

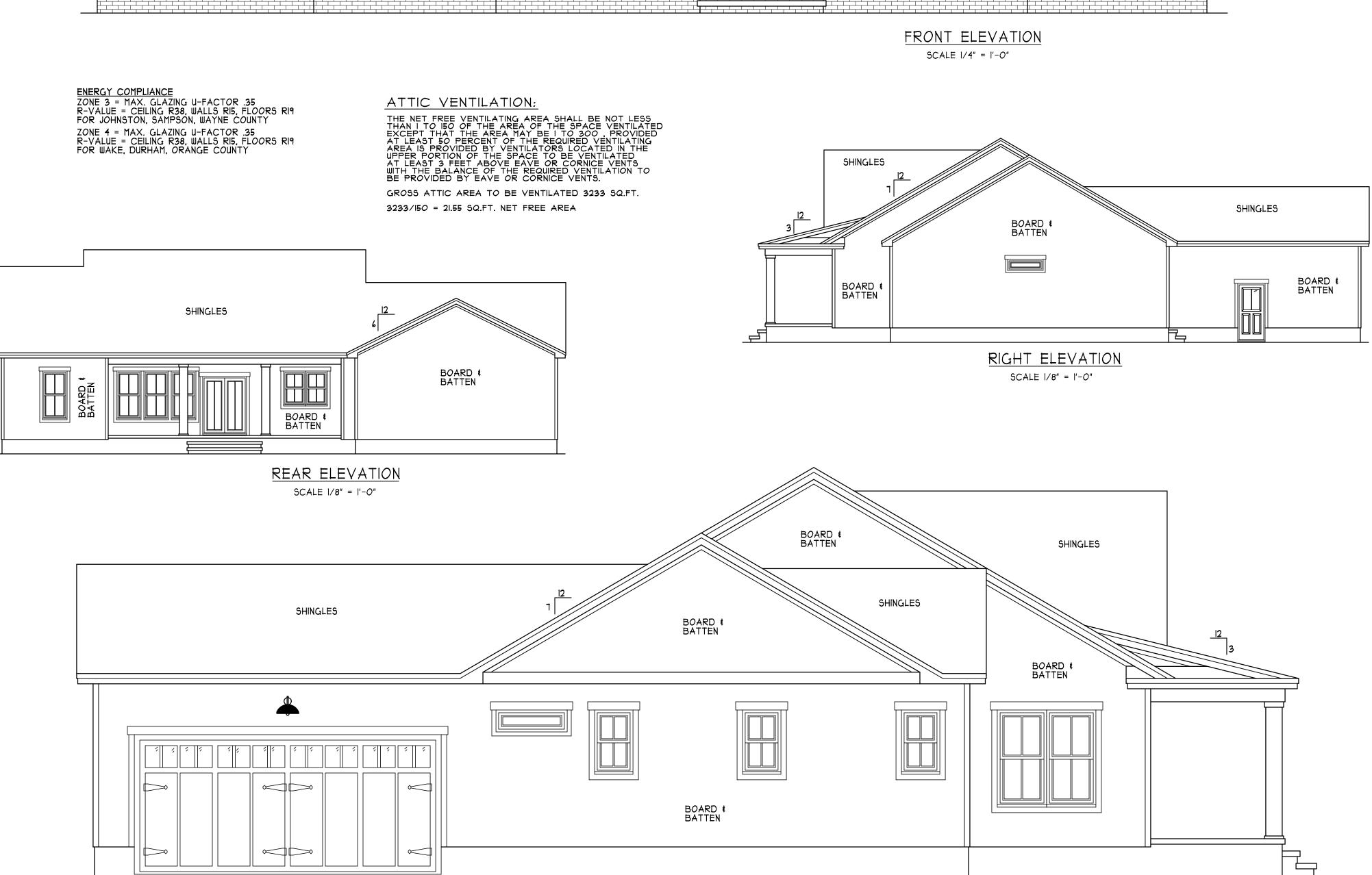
HARPER

JENNY

 \approx

AVID





H SQUARED
HEATHER OF JOHNATHAN HALL
HOME
BENSON NC 27504
DESIGN, INC.

BESIGNED BY:

FIRST FLOOR
FIRST FLOOR
FRONT PORCH
FRONT PORCH
FRAB PORCH
FRAB PORCH
FRAB PORCH
FRAB PORCH
FRAB FORCH

THIS PLAN HAS BEEN DRAWN IN ACCORDANCE WITH NORTH CAROLINA STATE RESIDENTIAL BUILDING CODES 2018 EDITION.

is to be built by the homeowner as cited in this title block only sed for multiple builds.

DATE:

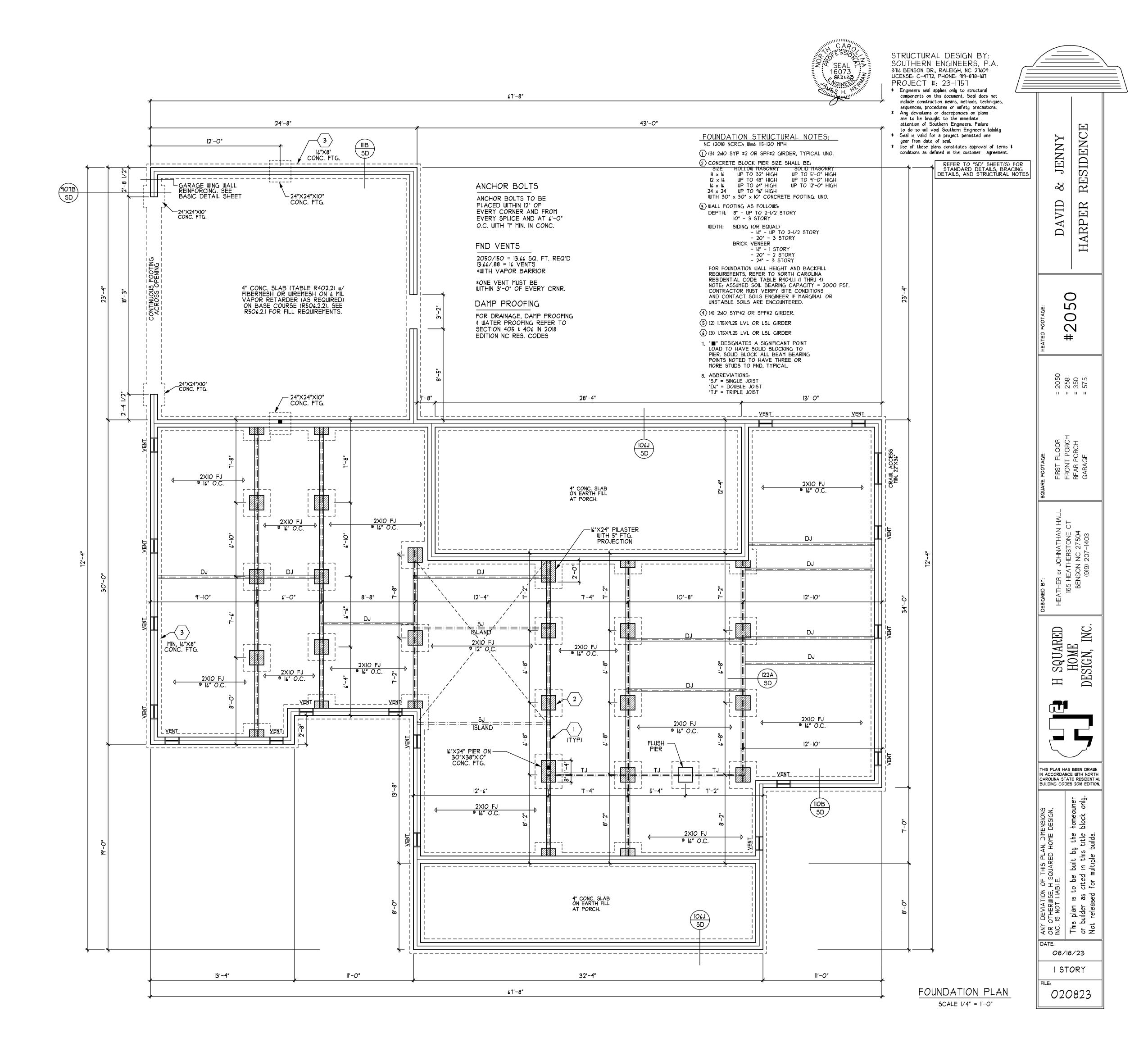
LEFT ELEVATION

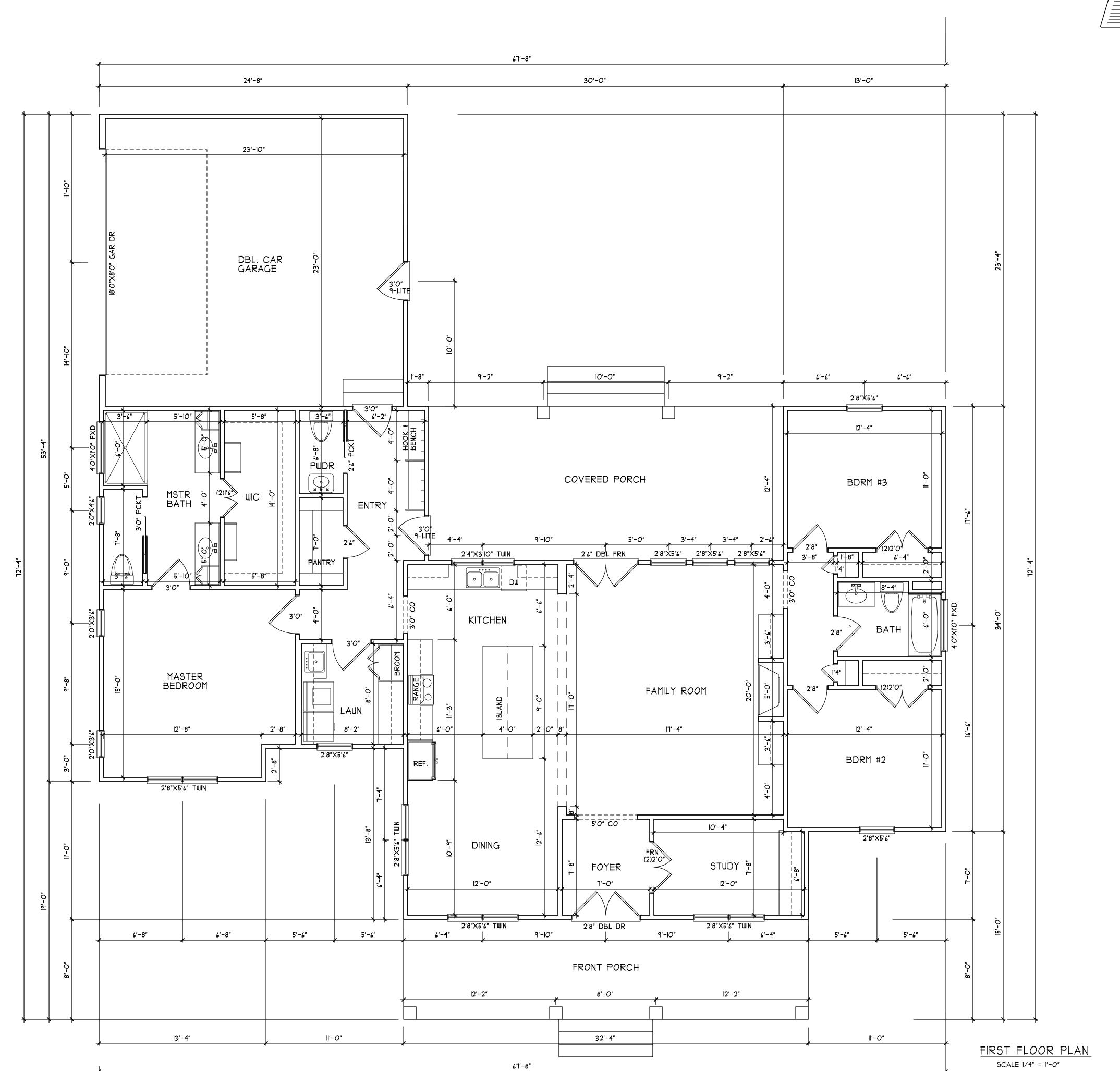
SCALE 1/4" = 1'-0"

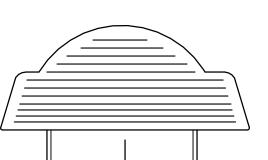
08/18/23

I STORY

020823







RESIDENCE JENNY \approx DAVID HARPER

#2050

= 2050 = 258 = 350 = 575

HEATHER or JOHNATHAN HALL
165 HEATHERSTONE CT
BENSON NC 27504
(919) 207–1403

H SQUARED HOME DESIGN, INC.

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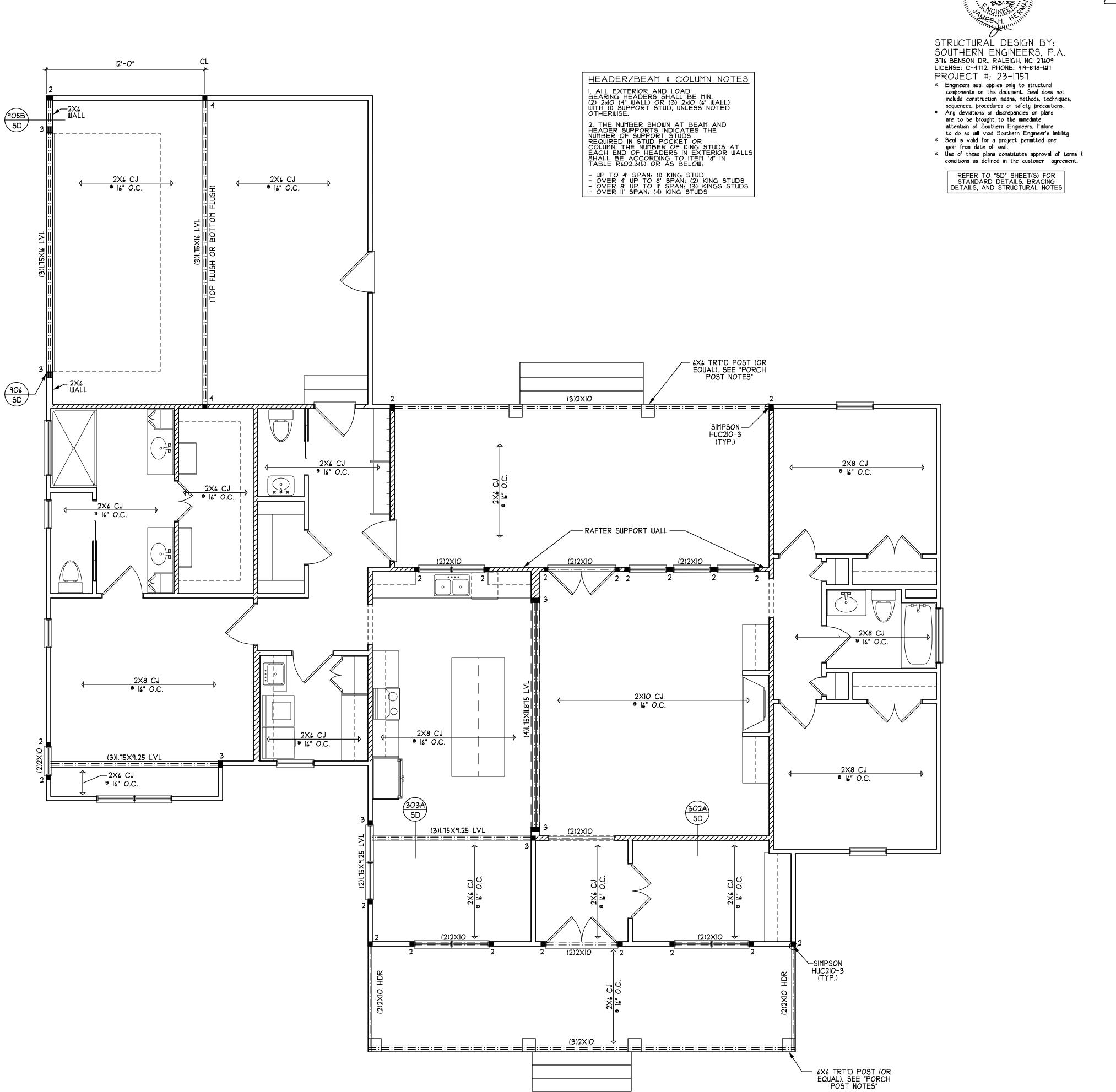
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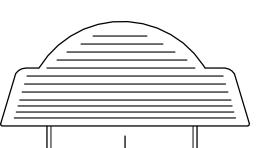
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DATE: 08/18/23

I STORY FILE:

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RESIDENCE

JENNY

DAVID HARPER 0 5

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2050 258 350 575 H H H H

HEATHER or JOHNATHAN HALL 165 HEATHERSTONE CT BENSON NC 27504 (919) 207–1403

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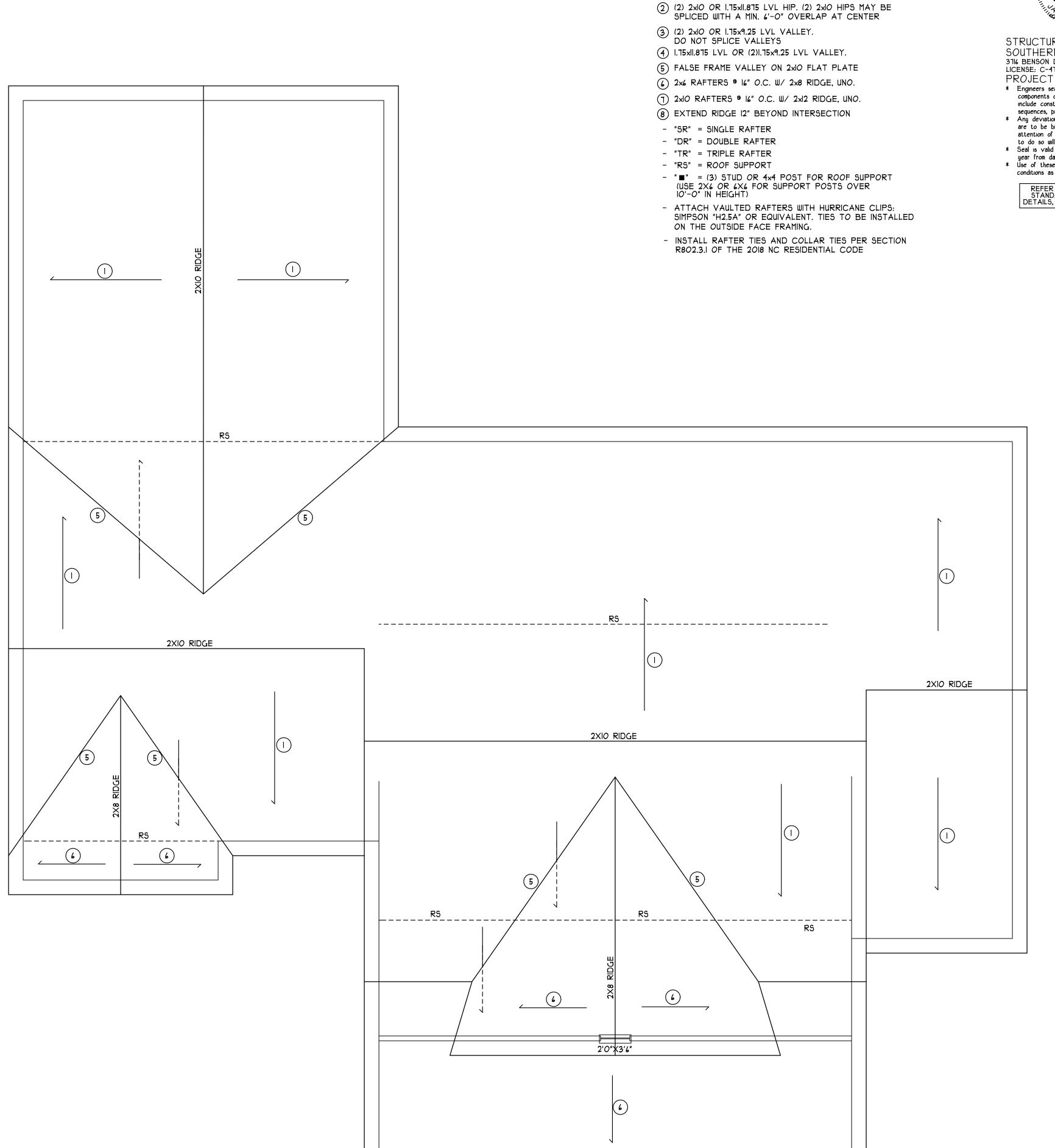
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FIRST FLOOR STRUCTURAL PLAN

SCALE 1/4" = 1'-0"

08/18/23 I STORY

FILE: 020823



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

1 2x8 RAFTERS 9 16" O.C. WITH 2x10 RIDGE, UNO.



STRUCTURAL DESIGN BY:
SOUTHERN ENGINEERS, P.A.
3716 BENSON DR., RALEIGH, NC 27609
LICENSE: C-4712, PHONE: 919-878-1617
PROJECT #: 23-1757

- 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 Engineers. Failure to do so will void 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, BRACING DETAILS, AND STRUCTURAL NOTES

RESIDENCE JENNY AVID

HARPER

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2050 258 350 575 H H H H

THAN HALL ONE CT 504 103

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08/18/23

ROOF PLAN

SCALE 1/4" = 1'-0"

020823

I STORY

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

- 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 THE 2018 NC 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.
- DESIGN LOADS (LISTED AS: LIVE LOAD, DEAD LOAD, DEFLECTION)
- ROOMS OTHER THAN SLEEPING ROOMS: (40 PSF, 10 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: (IO PSF, IO PSF, L/240)
- STAIRS: (40 PSF, I0 PSF, L/360)
- DECKS AND EXTERIOR BALCONIES: (40 PSF, IO PSF, L/360)
- PASSENGER VEHICLE GARAGES: (50 PSF, 10 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).
- 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.
- 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=1.9x10 PSI. P.S.L. SHALL BE PARALLEL STRAND LUMBER: Fb=2900 PSI, Fv=290 PSI, E=2.0x10 PSI. L.S.L. SHALL BE LAMINATED STRAND LUMBER: Fb=2250 PSI, Fv=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.
- 12. REBAR SHALL BE DEFORMED STEEL, ASTM615, GRADE 60. LAP ALL REBAR SPLICES 30 BAR DIAMETERS.
- 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'-O" SPAN AND 6"x4"x5/16" STEEL ANGLE WITH 6" LEG VERTICAL FOR SPANS UP TO 9'-0". SEE PLANS FOR SPANS OVER 9'-0". SEE ALSO SECTION R703.8.3 LINTELS.
- 15. METAL CONNECTORS REFERENCED ON PLANS CORRESPOND TO SIMPSON STRONG-TIE BRAND. CONNECTORS OF EQUAL OR BETTER CAPACITY ARE ACCEPTABLE. CORROSION RESISTANCE PER CODE AND AS RECOMMENDED BY MANUFACTURER.

LVL CONNECTION LEGEND

- I. (2) PLY 1.75" LVL BEAMS:
- (3) ROWS OF IOD NAILS @ 12" O.C. OR
- (2) ROWS OF SIMPSON SDW22338 (OR EQUAL) SCREWS @ 16" O.C. FOR BEAMS UP TO 18"
- (3) ROWS OF SIMPSON SDW22338 (OR EQUAL) SCREWS @ 16" O.C. FOR BEAMS GREATER THAN 18".
- 2. (3) PLY 1.75" LVL BEAMS: • (3) ROWS OF IOD NAILS @ 8" O.C. ON EACH SIDE OR
- (2) ROWS OF SIMPSON SDW22500 (OR EQUAL) SCREWS @ 16" O.C. FOR BEAMS UP TO 18"
- (3) ROWS OF SIMPSON SDW22500 (OR EQUAL SCREWS @ 16" O.C. FOR BEAMS GREATER THAN 18".
- 3. (4) PLY 1.75" LVL BEAMS:
- (2) ROWS OF SIMPSON SDW22634 (OR EQUAL) SCREWS @ 16" O.C. FOR BEAMS UP TO 18"
- (3) ROWS OF SIMPSON SDW22634 (OR EQUAL SCREWS @ 16" O.C. FOR BEAMS GREATER THAN 18".

- PORCH POST NOTES:
- 4X4 (6x6) TRT'D POST (OR EQUAL).
- ATTACH TRUSSES (RAFTERS) AT PORCH WITH HURRICANE CONNECTORS
- POST CAP: SIMPSON AC4-MAX (AC6-MAX)
- 2. POST CAP AT CORNER: (2) SIMPSON LCE4 (MITER HEADER AT CORNER). HIGH WIND; ADD (I) SIMPSON H6.
- 3. <u>POST BASE</u>: SIMPSON ABU44 (ABU66). 3.I. MONO: 5/8" ANCHOR (EMBED 7")
- CMU: %" ANCHOR (EXTEND TO FOOTING -HIGH WIND ONLY)
- 4. POST BASE: WOOD FOUNDATION: (2) SIMPSON CSI6 STRAPS AT POSTS. EXTEND 12" ONTO EACH POST (UPPER AND LOWER) OR TO GIRDER
- NOTE: THE ABOVE CONNECTORS ARE SUGGESTIONS. EQUIVALENT CONNECTORS THAT MEET THE REQUIREMENTS OF THE NO RESIDENTIAL BUILDING CODE, LOCAL CODES, AND/OR ARE APPROVED BY THE BUILDING INSPECTOR MAY BE SUBSTITUTED.

FRAMING NOTES

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 BRACING AND WALL FRAMING.
- 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. SEE DETAILS FOR HD ASSEMBLY.
- **GROUND/FIRST FLOOR: USE "HD HOLD-DOWN DETAIL" ON SD SHEET (OR EQUIV.)
- **UPPER FLOORS: ATTACH BASE OF KING STUD WITH A SIMPSON CS20 OR CSHP20 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 1/2" 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 INTERMEDIATE SUPPORTS. SEE SECTION R602.10.4.4 OF THE CODE.
- 6. INTERIOR BRACED WALL-WOOD STRUCTURAL PANEL: (NOTED AS "<u>IBW-WSP</u>" ON PLANS). ATTACH ONE SIDE WITH %" 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 1/2" GB WITH A MIN. OF 5d COOLER NAILS OR #6 SCREWS @ 7" OC ALONG THE EDGES AND AT INTERMEDIATE SUPPORTS. SEE SECTION R602.10.4.4 OF THE CODE.

HEADER/BEAM & COLUMN NOTES

- I. ALL EXTERIOR AND LOAD BEARING HEADERS SHALL BE MIN. (2)2x10 (4" WALL) OR (3)2x10 (6" WALL) WITH (I) SUPPORT 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. THE NUMBER OF KING STUDS AT EACH END OF HEADERS IN EXTERIOR WALLS SHALL BE ACCORDING TO ITEM "d" IN TABLE R602.3(5) OR AS BELOW PER NCDOI COMMENTARY "KING STUDS AT WALL OPENINGS" REVISED 1-9-2020:
- UP TO 3' SPAN: (1) KING STUD
- OVER 3' UP TO 6' SPAN: (2) KING STUDS OVER 6' UP TO 9' SPAN: (3) KING STUDS
- OVER 9' UP TO 12' SPAN: (4) KING STUDS OVER 12' UP TO 15' SPAN: (5) KING STUDS

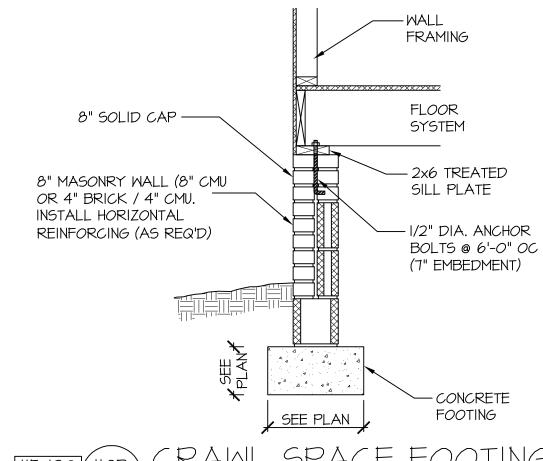
HEADER BLOCK 8" MASONRY WALL (INSTALL HORIZONTAL REINFORCING. SEE BELOW. REINFORCING AS REQ'D). TOP COURSE TO BE FILLED SOLID AND FILL A A A A A SOLID AT REINFORCING - 4" CONC. SLAB (SEE PLAN) CONCRETE FOOTING SIZE AND REINFORCEMENT. SEE BELOW.

8" MASONRY (UN-REINFORCED) ON 16" WIDE BY 8" DEEP (MIN) CONC. FTG.

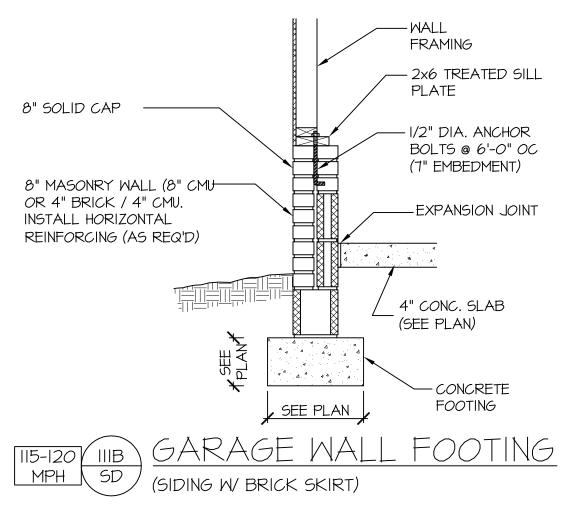
REINFORCE WALL W/ #5 BAR @ 48" O.C. W/ 7.5" BEND INTO FTG. 24" WIDE BY IO" DEEP CONC FTG REINFORCED W/ (3) #4 BAR OR (2) #5 BAR CONTINUOUS WITH #4 TIES @ 48" O.C.

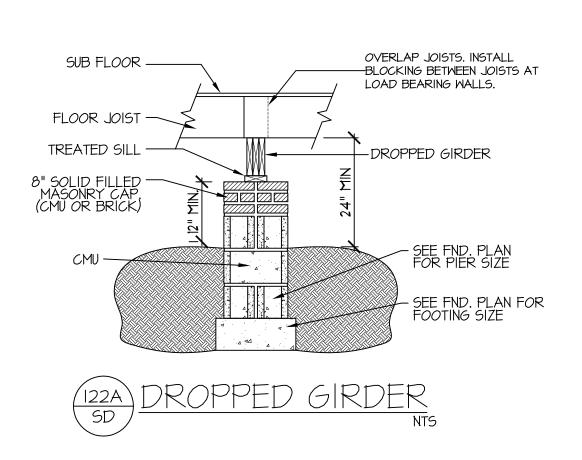
REINFORCE WALL W/ #5 BAR @ 24" O.C. W/ 7.5" BEND "UBF" = 24" UP TO 48" ---INTO FTG. 24" WIDE BY IO" DEEP CONC FTG REINFORCED W/ (3) #4 BAR OR (2) #5 BAR CONTINUOUS WITH #4 TIES @ 24" O.C.





CRANL MPH (SIDING W/ BRICK SKIRT)







SEAL 16073

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dai & c

5092 \triangleleft Raleigh, NC 878-1617 3-4772 (919)Phone:

southernengineer

outhern Ben S

165 Heatherstone Ct, Benson, NC 27504 Phone: (919) 207-1403 esign,

Phone:

sidence enny 2 David er Harp

NOTE: AT INTERMEDIATE WALL SEGMENTS BETWEEN OPENINGS, THE

STRAPS SHALL BE INSTALLED AT

THE WALL SEGMENT.

___OVER PANEL.

SILLS) TYP.

SEE

PLAN

INTERIOR VIEW

DETAIL AND APPLICATION BASED ON NORC FIGURE

R602.10.1 - PORTAL FRAME CONSTRUCTION

MIN. 3"XII.25" HEADER. SEE PLAN FOR ACTUAL SIZE. EXTEND

FASTEN SHEATHING TO HEADER

W/8d COMMON NAILS IN 3" GRID PATTERN AND 3" O.C. IN ALL

FRAMING (STUDS, BLOCKING, AND

BLOCKED AND OCCUR WITHIN 24"

FOOTING / FOUNDATION (SEE

OF MID-HEIGHT. ONE ROW OF TYP. SHEATHING-TO-FRAMING

PANEL EDGES SHALL BE

NAILING IS REQ'D (3" OC). ATTACH BLOCKING TOGETHER W

(3) 16d SINKERS.

— OPTIONAL CURB: CURB HEIGHT (MAX): 6" CURB WIDTH: 8"

CS-PF: CONTINUOUS PORTAL FRAME CONSTRUCTION

THE STUD COLUMN ON EACH END OF

SD

(2) SIMPSON CSI6 STRAP-

TO WALL TOP PLATE AND

MIN (2)2X WALL FRAMING. SEE PLAN FOR STUD —

COLUMN REQUIREMENTS.

TREATED SILLPLATE

½" ANCHOR BOLTS PER

NOTE: FOR CMU APPLICATIONS AT GARAGE DOORS, ANCHOR BOLTS SHALL BE %" DIAMETER AND SHALL EXTEND

TO FOOTING (PER NCRC FIGURE R602.10.4.3 (SEE GARAGE "WING WALL"

DETAIL ON STRUCTURAL PLANS)

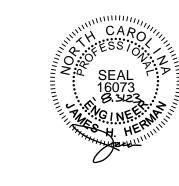
WITH 8d NAILS. (EXTEND

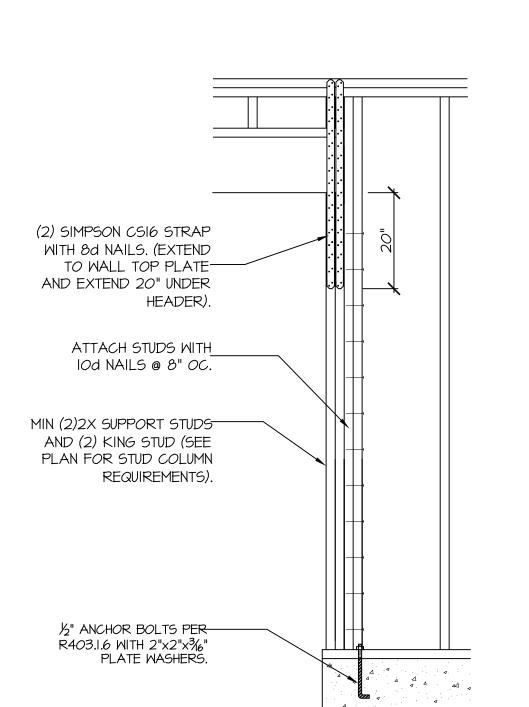
EXTEND 20" UNDER

(2) ROWS OF 16d-

NAILS @ 3" OC

HEADER).





(8) IOd NAILS (MIN)

AT SPLICE

OR EQUAL

REQ'D.

CONNECTORS

ROOF SUPPORT - KNEEWALL AS

ROOF BEAM AS

JOIST HANGERS OR

NTS.

2' TO 18'

MIN 1/4" THICK WOOD

TREATED SILLPLATE

- STRUCTURAL PANEL

SHEATHING

EXTERIOR VIEW

SIMPSON H2.5A

CS-PF: END CONDITION DETAIL (FOR USE WITH SINGLE CS-PF CONDITION) DETAIL AND APPLICATION BASED ON NORC FIGURE R602.10.1 - PORTAL FRAME CONSTRUCTION

48" MAX 2x6 WALL FRAMING -OPTIONAL WALL PLATE. -MAY COUNTERSINK BOLT IN OPTIONAL PLATE. TREATED SILLPLATE - GARAGE SLAB OVER GRAVEL AS SPECIFIED OPTIONAL BRICK (OR OTHER) -— 8" CMU %" THREADED ROD WITH 2" CUT WASHERS OR SIMPSON "SET OR SET-XP" EPOXY. CONCRETE FOOTING (SEE PLANS) 3" CONC. COVER (TYP) SECTION **ELEVATION**

> GARAGE 'WING WALL' REINFORCING PER IRC FIGURE R602.10.4.3

P.A. 27609 uthern Engineers, P 6 Benson Drive, Raleigh, NC 27 Phone: (919) 878-1617 License: C-4772 www.southernengineers.com Southern 3716

Squared

PROJECT #

23-1757

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Residence Jenny **David** Harper