

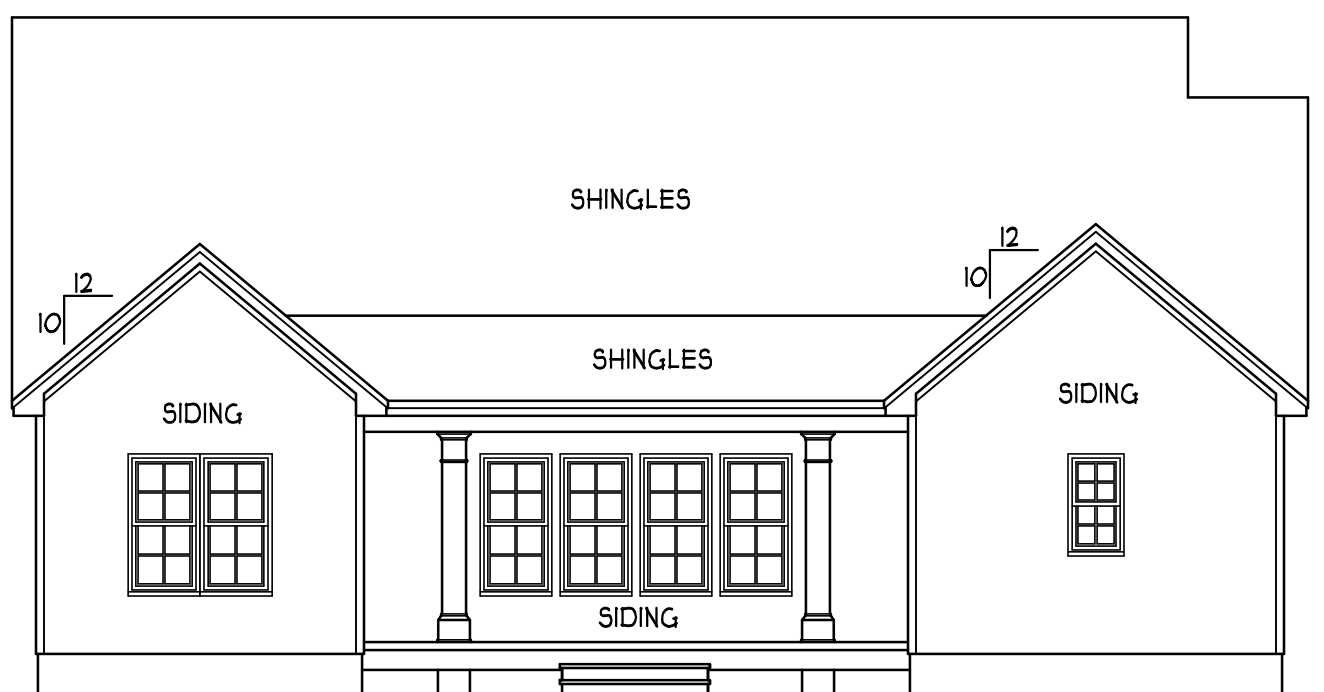
**NOTICE TO CONTRACTOR**  
All construction must comply with current NC Building Codes and is subject to field inspection and verification.

**APPROVED**  
Limited building only review  
Permit holder responsible for full compliance with the code

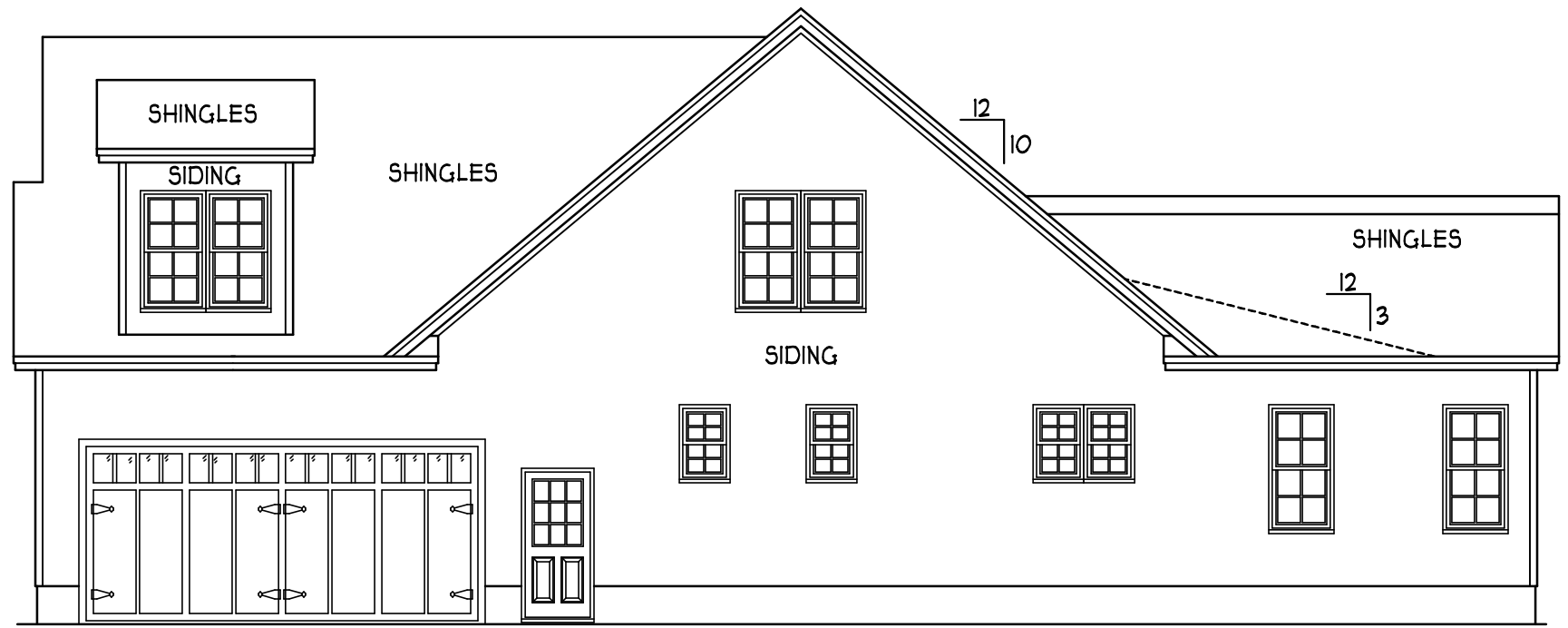
05/27/2020



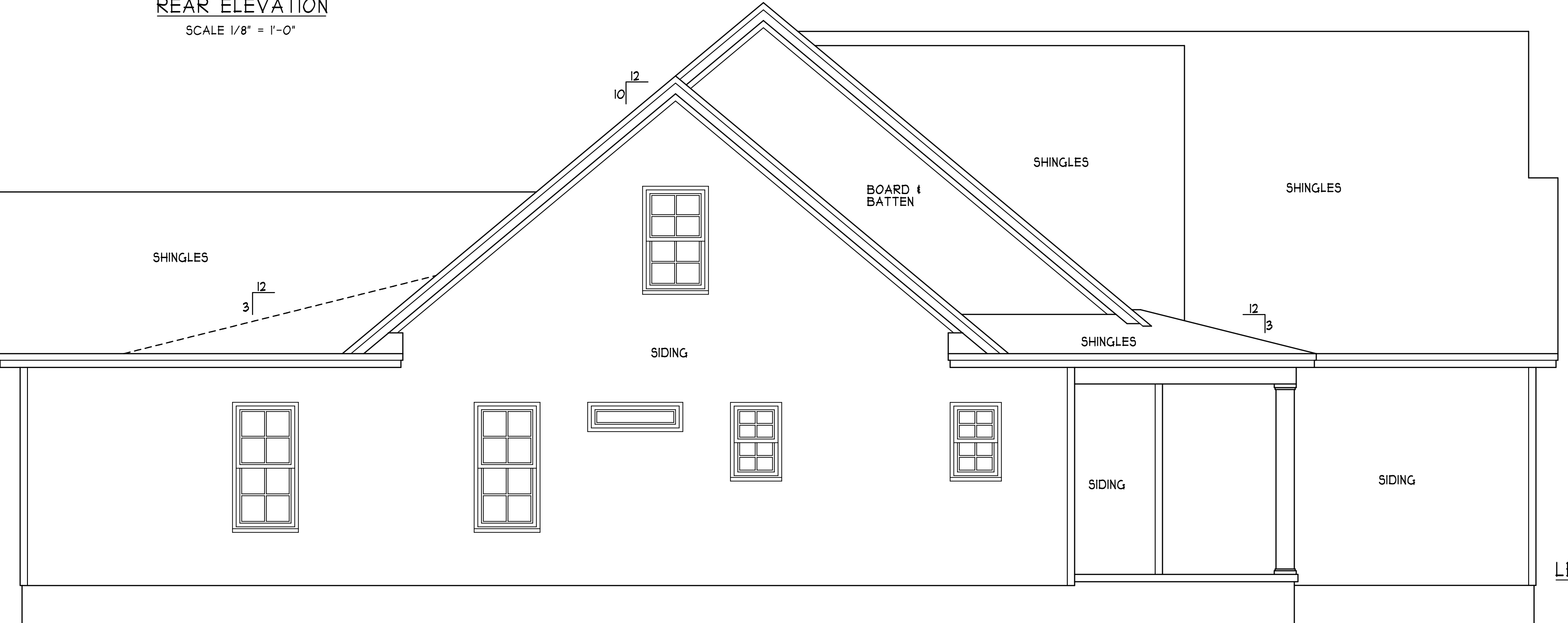

**FRONT ELEVATION**  
SCALE 1/4" = 1'-0"



**REAR ELEVATION**  
SCALE 1/8" = 1'-0"



**RIGHT ELEVATION**  
SCALE 1/8" = 1'-0"



**LEFT ELEVATION**  
SCALE 1/4" = 1'-0"

**ATTIC VENTILATION:**  
THE NET FREE VENTILATING AREA SHALL BE NOT LESS THAN 1 TO 150 OF THE AREA OF THE SPACE VENTILATED EXCEPT THAT THE AREA MAY BE 1 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 3141 SQ.FT.  
3141/150 = 211 SQ.FT. NET FREE AREA

**ENERGY COMPLIANCE**  
ZONE 3 = MAX. GLAZING U-FACTOR .35  
R-VALUE = CEILING R38, WALLS R15,  
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

**THE LILLINGTON**  
SIDE LOAD GARAGE

**HUGH SURLES BLDRS**

HEATED FOOTAGE: **#3037**

SQUARE FOOTAGE:  
FIRST FLOOR = 1983  
SECOND FLOOR = 1054  
COVERD PORCHES = 454  
GARAGE = 730

DESIGNED BY:  
HEATHER HALL  
185 HEATHERSTONE CT  
BENSON NC 27504  
(919) 207-1403

**H SQUARED HOME DESIGN, INC.**

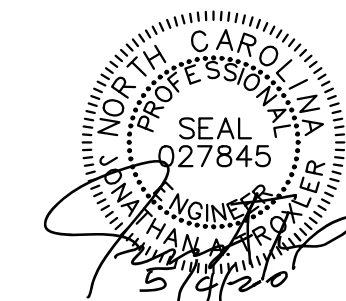
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DATE: 04/14/20

1 1/2 STORY

FILE: 030120

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



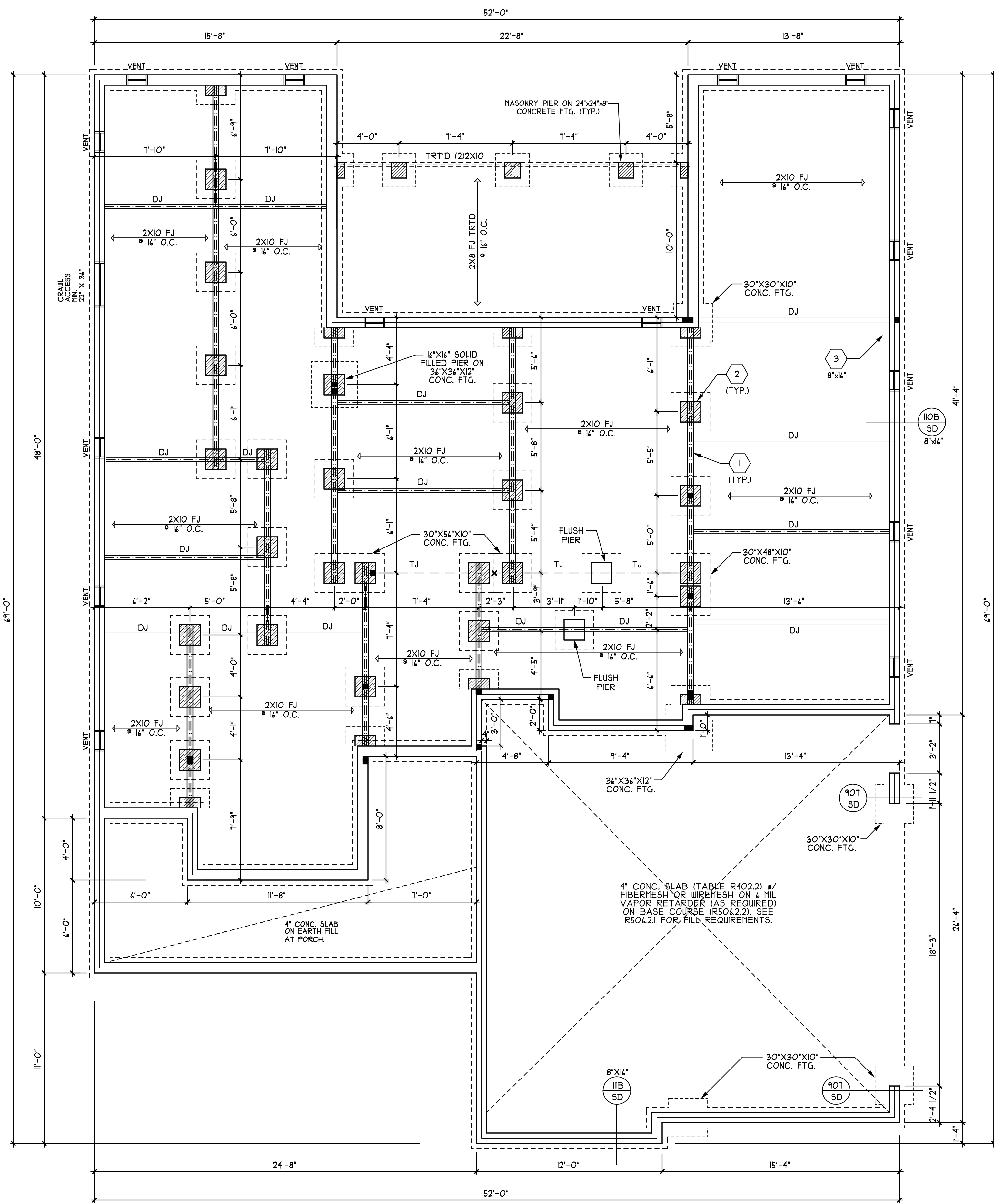
STRUCTURAL DESIGN BY:  
 SOUTHERN ENGINEERS, P.A.  
 3714 BENSON DR., RALEIGH, NC 27609  
 LICENSE: C-1281, PHONE: 919-818-1411  
 PROJECT #: 20-1403

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

**FOUNDATION STRUCTURAL NOTES:**

- NC 12018 NCR: Wind: 115-120 MPH
- (1) 2x10 SYP #2 OR SPF#2 GIRDER, TYPICAL UNO.
  - (2) CONCRETE BLOCK PIER SIZE SHALL BE:  
 SIZE HOLLOW MASONRY SOLID MASONRY  
 8 x 16 UP TO 32" HIGH UP TO 5'-0" HIGH  
 12 x 16 UP TO 48" HIGH UP TO 8'-0" HIGH  
 16 x 16 UP TO 64" HIGH UP TO 12'-0" HIGH  
 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  
 10" - 3 STORY  
 WIDTH: SIDING (OR EQUAL)  
 - 10" - UP TO 2-1/2 STORY  
 - 20" - 3 STORY  
 BRICK VENEER  
 - 10" - 1 STORY  
 - 20" - 2 STORY  
 - 24" - 3 STORY
- FOR FOUNDATION WALL HEIGHT AND BACKFILL REQUIREMENTS, REFER TO NORTH CAROLINA RESIDENTIAL CODE TABLE R404.11 (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.
- (4) 2x10 SYP#2 OR SPF#2 GIRDER.
  - (5) (2) 1.75X9.25 LVL OR LSL GIRDER
  - (3) 1.75X9.25 LVL OR LSL GIRDER
1. \*■\* 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.
8. ABBREVIATIONS:  
 "S.J." = SINGLE JOIST  
 "D.J." = DOUBLE JOIST  
 "T.J." = TRIPLE JOIST



**DAMP PROOFING**  
 FOR DAMP PROOFING & WATER PROOFING REFER TO SECTION 405 & 406 IN 2018 EDITION NC RES. CODES

**ANCHOR BOLTS**  
 ANCHOR BOLTS TO BE PLACED WITHIN 12" OF EVERY CORNER AND FROM EVERY SPLICE AND AT 4'-0" O.C. WITH 1" MIN. IN CONC.

**FND VENTS**  
 1983/150 = 13.22 SQ. FT. REQ'D  
 13.22/88 = 15 VENTS  
 \*WITH VAPOR BARRIER  
 \*ONE VENT MUST BE WITHIN 3'-0" OF EVERY CRNR.

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

**THE LILLINGTON**  
SIDE LOAD GARAGE

**HUGH SURLES BLDRS**

---

**#3037**

---

HEATED FOOTAGE:  
 = 1983  
 = 1054  
 = 454  
 = 730

---

SQUARE FOOTAGE:  
 FIRST FLOOR  
 SECOND FLOOR  
 COVD. PORCHES  
 GARAGE

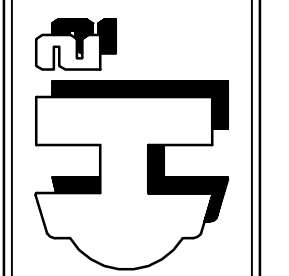
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DESIGNED BY:  
 HEATHER HALL  
 185 HEATHERSTONE CT  
 BENSON NC 27504  
 (919) 207-1403

---

**H SQUARED HOME DESIGN, INC.**

---

  
 ANY DEVIATION OF THIS PLAN, DIMENSIONS OR OTHERWISE, H SQUARED HOME DESIGN, INC. IS NOT LIABLE.  
THIS PLAN HAS BEEN DRAWN IN ACCORDANCE WITH THE NORTH CAROLINA STATE BOARD OF ARCHITECTURAL AND ENGINEERING REGULATIONS, BUILDING CODES 2018 EDITION.

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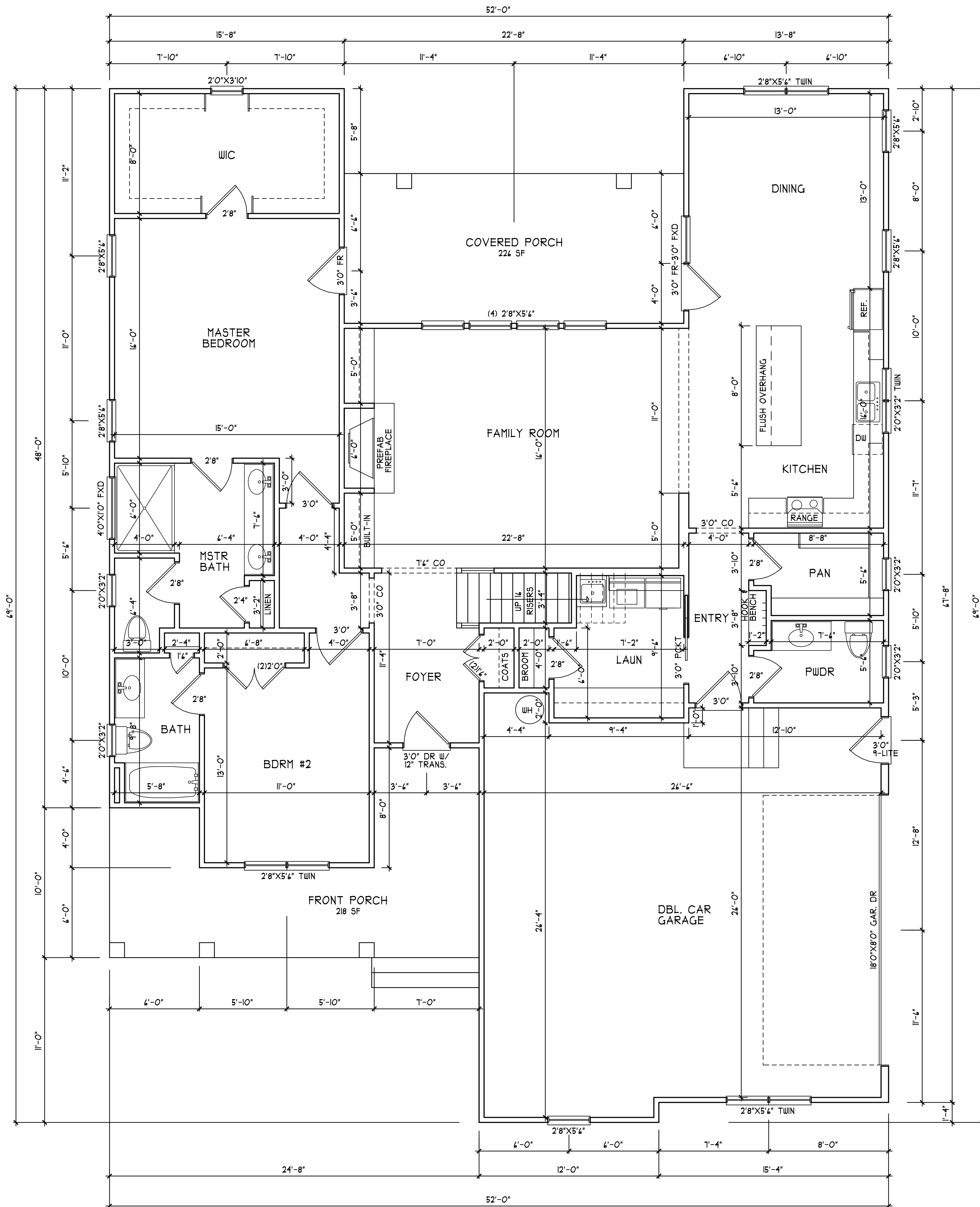
DATE:  
04/14/20

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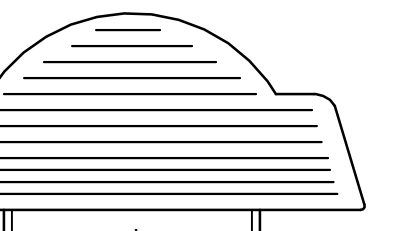
1 1/2 STORY

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FILE:  
030120



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



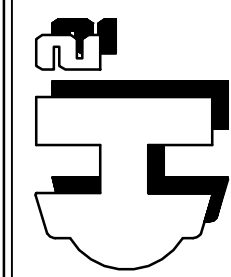
THE LILLINGTON  
SIDE LOAD GARAGE  
HUGH SURLES BLDRS

HEATED FOOTAGE:  
#3037

SQUARE FOOTAGE:  
FIRST FLOOR = 1983  
SECOND FLOOR = 1054  
COVERD PORCHES = 454  
GARAGE = 730

DESIGNED BY:  
HEATHER HALL  
185 HEATHERSTONE CT  
BENSON NC 27504  
(919) 207-1403

H SQUARED  
HOME  
DESIGN, INC.

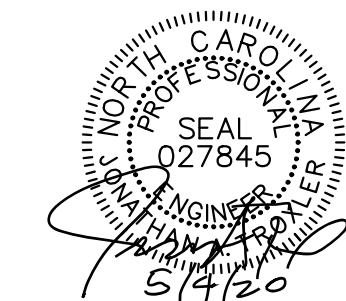


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THIS PLAN HAS BEEN DRAWN  
IN ACCORDANCE WITH THE  
CAROLINA STATE RESIDENTIAL  
BUILDING CODES 2018 EDITION.

DATE:  
04/16/20

1 1/2 STORY

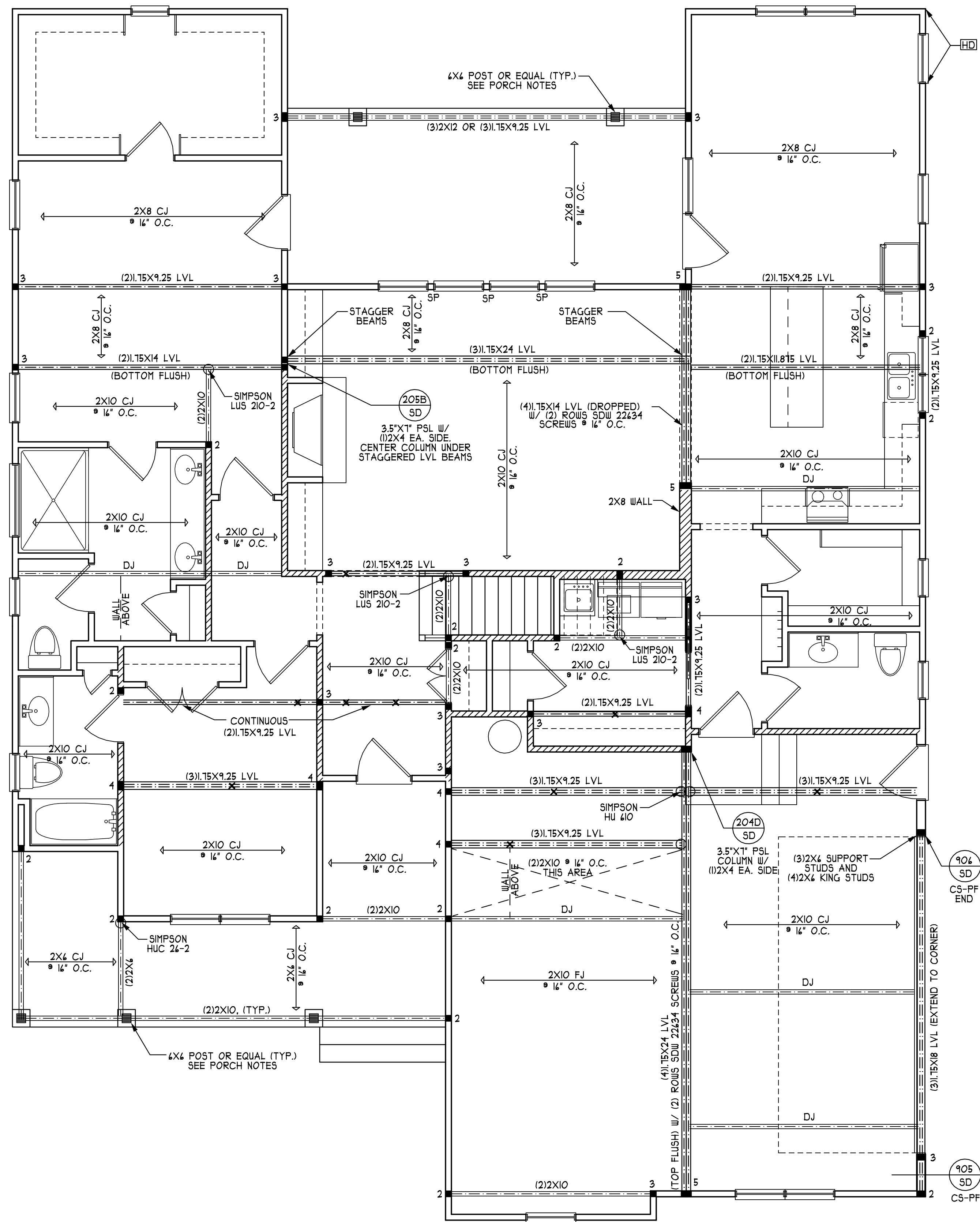
FILE:  
030120



STRUCTURAL DESIGN BY:  
 SOUTHERN ENGINEERS, P.A.  
 3714 BENSON DR., RALEIGH, NC 27604  
 LICENSE: C-1281, PHONE: 919-818-1411  
 PROJECT #: 20-1403

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



**FRAMING NOTES:**

- NC (2018 NCR): Wind: 115-120 mph
- BRACING METHOD AND TYPE: CONTINUOUSLY SHEATHED WSP. CS-WSP. NOTE THAT THE BRACING AMOUNT PROVIDED 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 AND WALL FRAMING.
  - EXTERIOR WALL SHEATHING: WALLS SHALL BE BRACED BY SHEATHING WALLS ON ALL STORIES WITH WOOD STRUCTURAL PANEL SHEATHING (WSP) (EXPOSURE B, 1/4", EXPOSURE C: 15/32"). SHEATHING SHALL BE ATTACHED WITH 8d NAILS AT A 12" NAILING PATTERN (12" O.C. AT PANEL EDGES AND 12" O.C. IN INTERMEDIATE SUPPORTS). INSTALL BLOCKING AT ALL PANEL EDGES.
  - WSP SHEATHING SHALL EXTEND TO THE UPPERMOST DOUBLE BEARING PLATE, BLOCK AT ROOF AND ATTACH BRACED WALLS PER CODE. WSP SHEATHING BETWEEN FLOORS SHALL BE SPICED ACROSS STUDS (CONTINUOUS ACROSS FLOOR SYSTEM) WITH BLOCKING AT PANEL EDGES, MINIMUM 1" BEYOND FLOOR BREAK) OR OTHER APPROVED METHOD.
  - "HD" = HOLD-DOWN. HOLD-DOWN DEVICE (NOTED AS "HD" ON PLANS) SHALL BE ON 800 POUND CAPACITY AS ASSEMBLY AS NOTED ON PLANS. SEE DETAILS FOR HD ASSEMBLY. \*BACKGROUND/FIRST FLOOR: USE "HD HOLD-DOWN DETAIL" ON SD SHEET (OR EQUIV). \*UPPER FLOORS: ATTACH BASE OF KING STUD WITH A SIMPSON CS-STRAP HOLD-DOWN ACROSS THE BAND AND DOWN TO A STUD BELOW OR HEADER BELOW. EXTEND STRAP 1" ALONG EACH STUD (OR HEADER) AND ATTACH EACH END W/ (1) 8d NAILS.
  - 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 #4 SCREWS @ 12" O.C. ALONG THE EDGES AND AT INTERMEDIATE SUPPORTS.
  - INTERIOR BRACED WALL-WOOD STRUCTURAL PANEL: (NOTED AS "IBWSP" ON PLANS) ATTACH ONE SIDE WITH 1/4" WSP SHEATHING WITH 8d NAILS AT A 12" NAILING PATTERN (12" O.C. AT PANEL EDGES AND 12" O.C. AT INTERMEDIATE SUPPORTS). INSTALL BLOCKING AT ALL PANEL EDGES. ATTACH GB OVER WSP REQUIRED. ATTACH OPPOSITE SIDE WITH 1/2" GB WITH A MIN. OF 5d COOLER NAILS OR #4 SCREWS @ 12" O.C. ALONG THE EDGES AND AT INTERMEDIATE SUPPORTS.

**HEADER/BEAM & COLUMN NOTES**

- ALL EXTERIOR AND LOAD BEARING HEADERS SHALL BE MIN. (2) 2X10 (4" WALL) WITH (1) SUPPORT STUD, UNLESS NOTED OTHERWISE.
  - 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:
- UP TO 4' SPAN: (1) KING STUD
  - OVER 4' UP TO 8' SPAN: (2) KING STUDS
  - OVER 8' UP TO 11' SPAN: (3) KING STUDS
  - OVER 11' SPAN: (4) KING STUDS

**PORCH POST NOTES:**

- 4"x4" (12"x12") TRTD POST (OR EQUAL)
  - ATTACH TRUSSES (RAFTERS) AT PORCH WITH HURRICANE CONNECTORS.
- POST CAP: SIMPSON AC4-MAX (AC4-MAX)
  - POST CAP AT CORNER: (2) SIMPSON LCE4 (MITER HEADER AT CORNER), HIGH WIND; ADD (1) SIMPSON HL.
  - POST BASE: SIMPSON ABU44 (ABU44).  
 3.1. RING: 5/8" ANCHOR (RIBBED T)  
 3.2. CHU: 5/8" ANCHOR (EXTEND TO FOOTING - HIGH WIND ONLY)
  - POST BASE: WOOD FOUNDATION: (2) SIMPSON CS4 STRAPS AT POSTS. EXTEND 12" ONTO EACH POST (UPPER AND LOWER) OR TO GIRDER.
- NOTE: EQUIVALENT POST CAP AND BASE ACCEPTABLE.

**H SQUARED HOME DESIGN, INC.**

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THIS PLAN HAS BEEN DRAWN IN ACCORDANCE WITH THE NATIONAL BUILDING CODES 2018 EDITION.

HEATED FOOTAGE:	#3037	1983	1054	454	730
SQUARE FOOTAGE:	FIRST FLOOR	SECOND FLOOR	COVD. PORCHES	GARAGE	
DESIGNED BY:	HEATHER HALL	185 HEATHERSTONE CT	BENSON NC 27504	(919) 207-1403	

THE LILLINGTON  
SIDE LOAD GARAGE

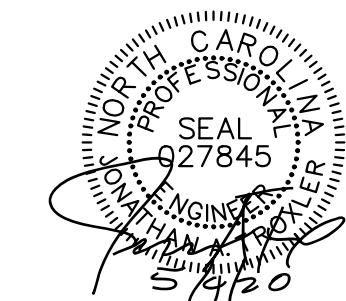
HUGH SURLES BLDRS

DATE: 04/14/20

1 1/2 STORY

FILE: 030120

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



STRUCTURAL DESIGN BY:  
 SOUTHERN ENGINEERS, P.A.  
 3114 BENSON DR., RALEIGH, NC 27604  
 LICENSE: C-1281, PHONE: 919-818-1411  
 PROJECT #: 20-1403

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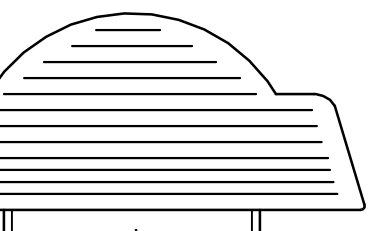
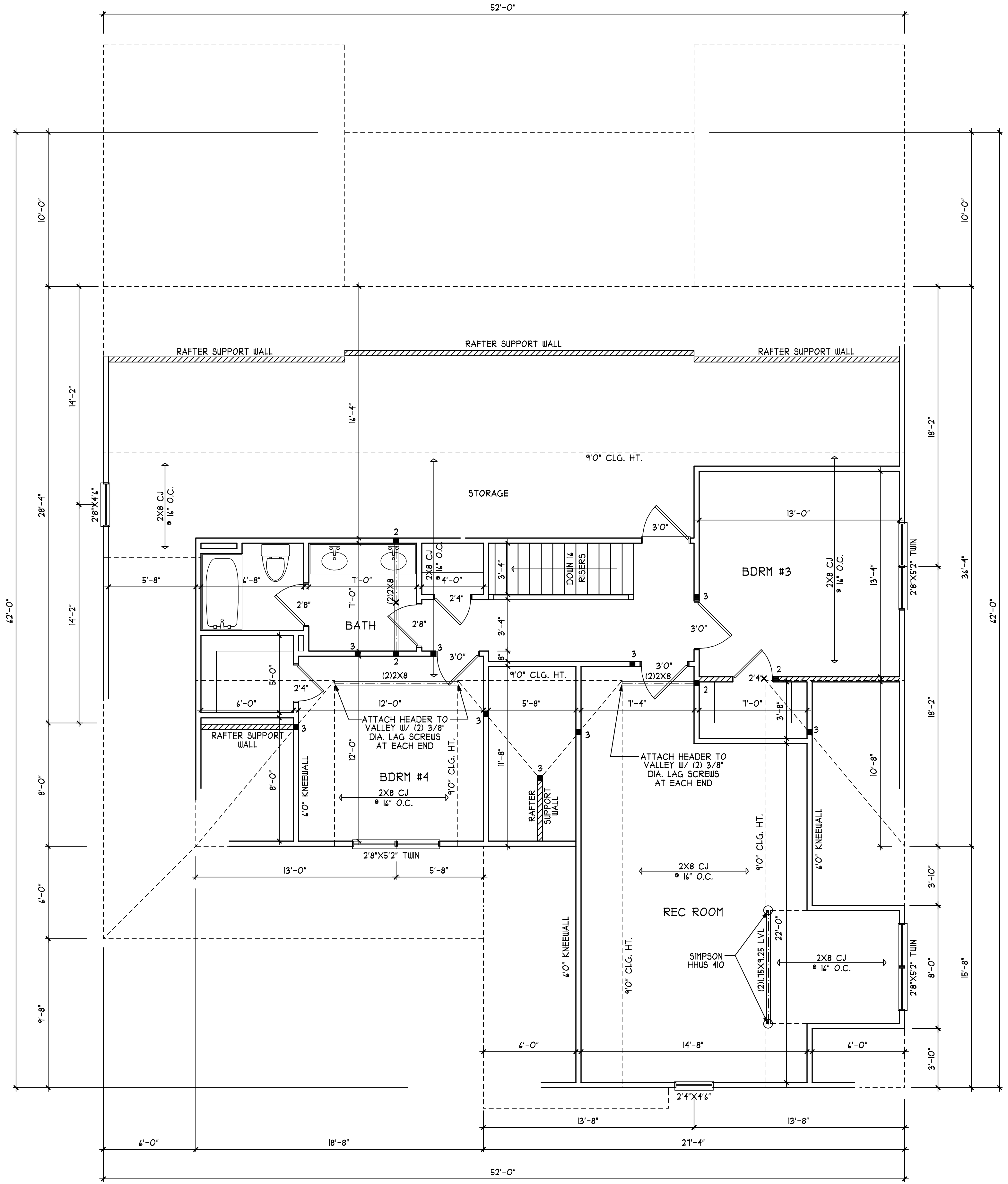
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 \*\*UPPER FLOORS: ATTACH BASE OF KING STUD WITH A SIMPSON CS22 STRAP DOWN ACROSS THE BAND AND DOWN TO A STUD BELOW OR HEADER BELOW. EXTEND STRAP 1" MIN ALONG EACH STUD (OR HEADER) AND ATTACH EACH END W/ (1) 8d NAILS.
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**HEADER/BEAM & COLUMN NOTES**

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  - OVER 8' UP TO 11' SPAN: (3) KING STUDS
  - OVER 11' SPAN: (4) KING STUDS



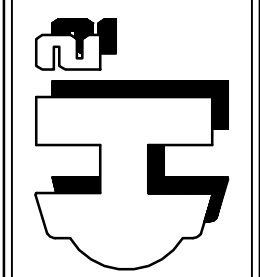
THE LILLINGTON  
 SIDE LOAD GARAGE  
 HUGH SURILES BLDRS

HEATED FOOTAGE  
 #3037

SQUARE FOOTAGE:  
 FIRST FLOOR = 1983  
 SECOND FLOOR = 1054  
 COVD. PORCHES = 454  
 GARAGE = 730

DESIGNED BY:  
 HEATHER HALL  
 185 HEATHERSTONE CT  
 BENSON NC 27504  
 (919) 207-1403

H SQUARED  
 HOME  
 DESIGN, INC.



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 CAROLINA STATE RESIDENTIAL  
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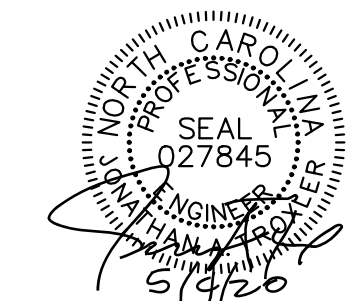
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DATE:  
 04/14/20

1 1/2 STORY

FILE:  
 030120

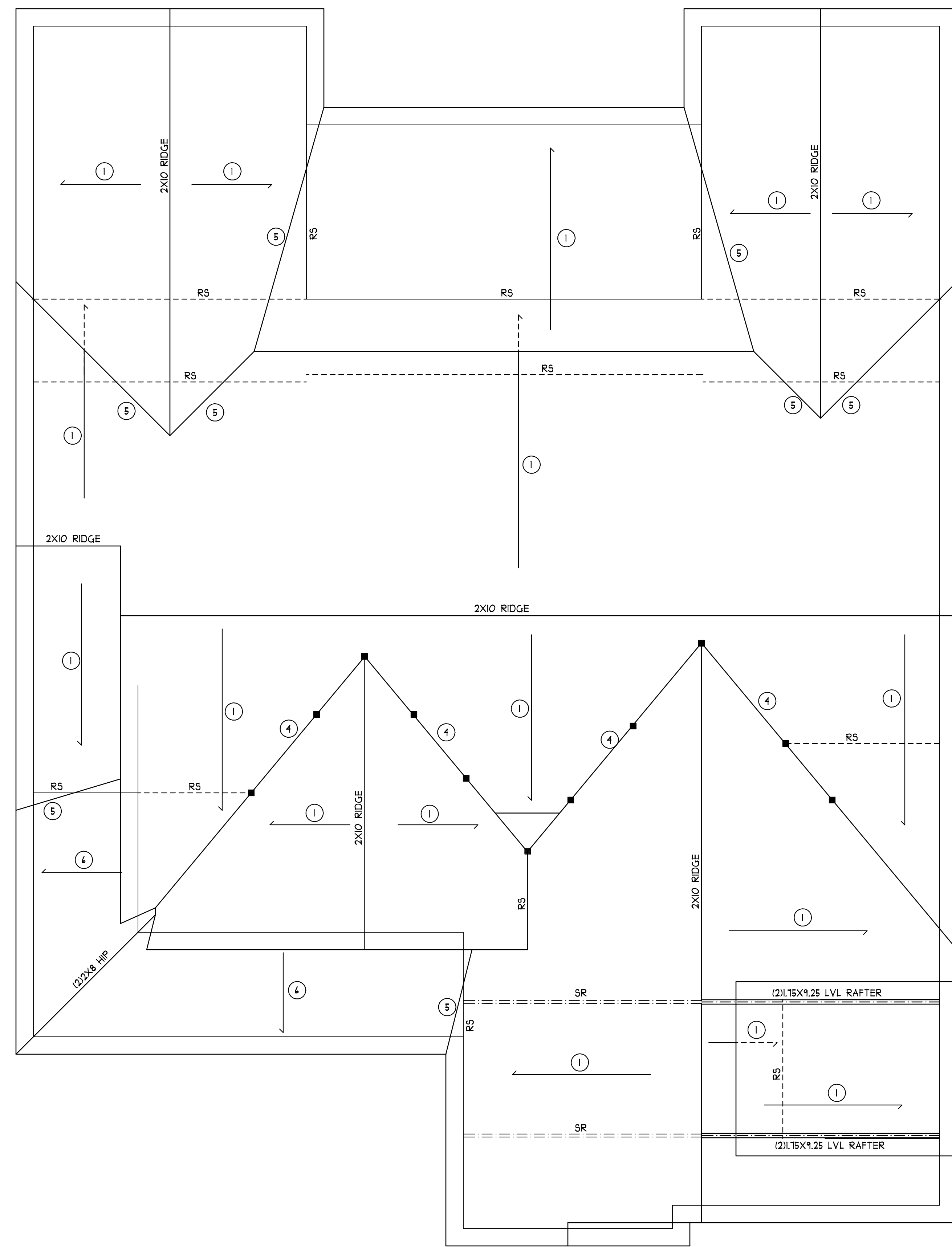
SECOND FLOOR PLAN  
 SCALE 1/4" = 1'-0"



STRUCTURAL DESIGN BY:  
 SOUTHERN ENGINEERS, P.A.  
 3114 BENSON DR., RALEIGH, NC 27604  
 LICENSE: C-1281, PHONE: 919-818-1411  
 PROJECT #: 20-1403

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**ROOF FRAMING NOTES:**

- NC (2018 NCRC): Wind: 115-120 MPH
- ① 2x8 RAFTERS @ 16" O.C. WITH 2x10 RIDGE, UNO.
  - ② 2x10 OR 1.75x11.875 LVL HIP. ② 2x10 HIPs MAY BE SPLICED WITH A MIN. 4'-0" OVERLAP AT CENTER
  - ③ ② 2x10 OR 1.75x11.875 LVL VALLEY. DO NOT SPLICE VALLEYS
  - ④ 1.75x11.875 LVL OR ② 1.75x11.875 LVL VALLEY.
  - ⑤ FALSE FRAME VALLEY ON 2x10 FLAT PLATE
  - ⑥ 2x6 RAFTERS @ 16" O.C. W/ 2x8 RIDGE, UNO.
  - ⑦ 2x10 RAFTERS @ 16" O.C. W/ 2x12 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 2x4 OR 4x4 FOR SUPPORT POSTS OVER 10'-0" IN HEIGHT)
  - ATTACH VAULTED RAFTERS WITH HURRICANE CLIPS. SIMPSON "H25A" OR EQUIVALENT. TIES TO BE INSTALLED ON THE OUTSIDE FACE FRAMING.
  - INSTALL RAFTER TIES AND COLLAR TIES PER SECTION R802.3.1 OF THE 2018 NC RESIDENTIAL CODE

**H SQUARED HOME DESIGN, INC.**

DESIGNED BY:  
 HEATHER HALL  
 185 HEATHERSTONE CT  
 BENSON NC 27504  
 (919) 207-1403

HEATED FOOTAGE: **#3037**

SQUARE FOOTAGE:	1983
FIRST FLOOR	1054
SECOND FLOOR	454
COVD PORCHES	730
GARAGE	

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DATE: 04/14/20

1 1/2 STORY

FILE: 030120

**ROOF PLAN**  
 SCALE 1/4" = 1'-0"

**STRUCTURAL NOTES**

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

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, 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, 10 PSF, L/360)
- SLEEPING ROOMS: (30 PSF, 10 PSF, L/360)
- ATTIC WITH PERMANENT STAIR: (40 PSF, 10 PSF, L/360)
- ATTIC WITHOUT PERMANENT STAIR: (20 PSF, 10 PSF, L/360)
- ATTIC WITHOUT STORAGE: (10 PSF, 10 PSF, L/240)
- STAIRS: (40 PSF, 10 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)

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 ENTRAINMENT 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 1/4". (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 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 (Fcp/perm) = 425 PSI - MIN).

9. L.V.L. SHALL BE LAMINATED VENEER LUMBER: Fb=2600 PSI, Fv=285 PSI, E=1.4x10<sup>6</sup> PSI.  
 9.1. P.S.L. SHALL BE PARALLEL STRAND LUMBER: Fb=2400 PSI, Fv=240 PSI, E=2.0x10<sup>6</sup> PSI.  
 9.2. L.S.L. SHALL BE LAMINATED STRAND LUMBER: Fb=2250 PSI, Fv=400 PSI, E=1.55x10<sup>6</sup> PSI. INSTALL ALL CONNECTIONS PER MANUFACTURERS INSTRUCTIONS.

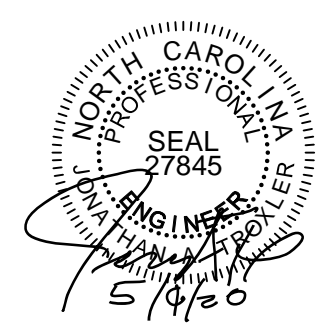
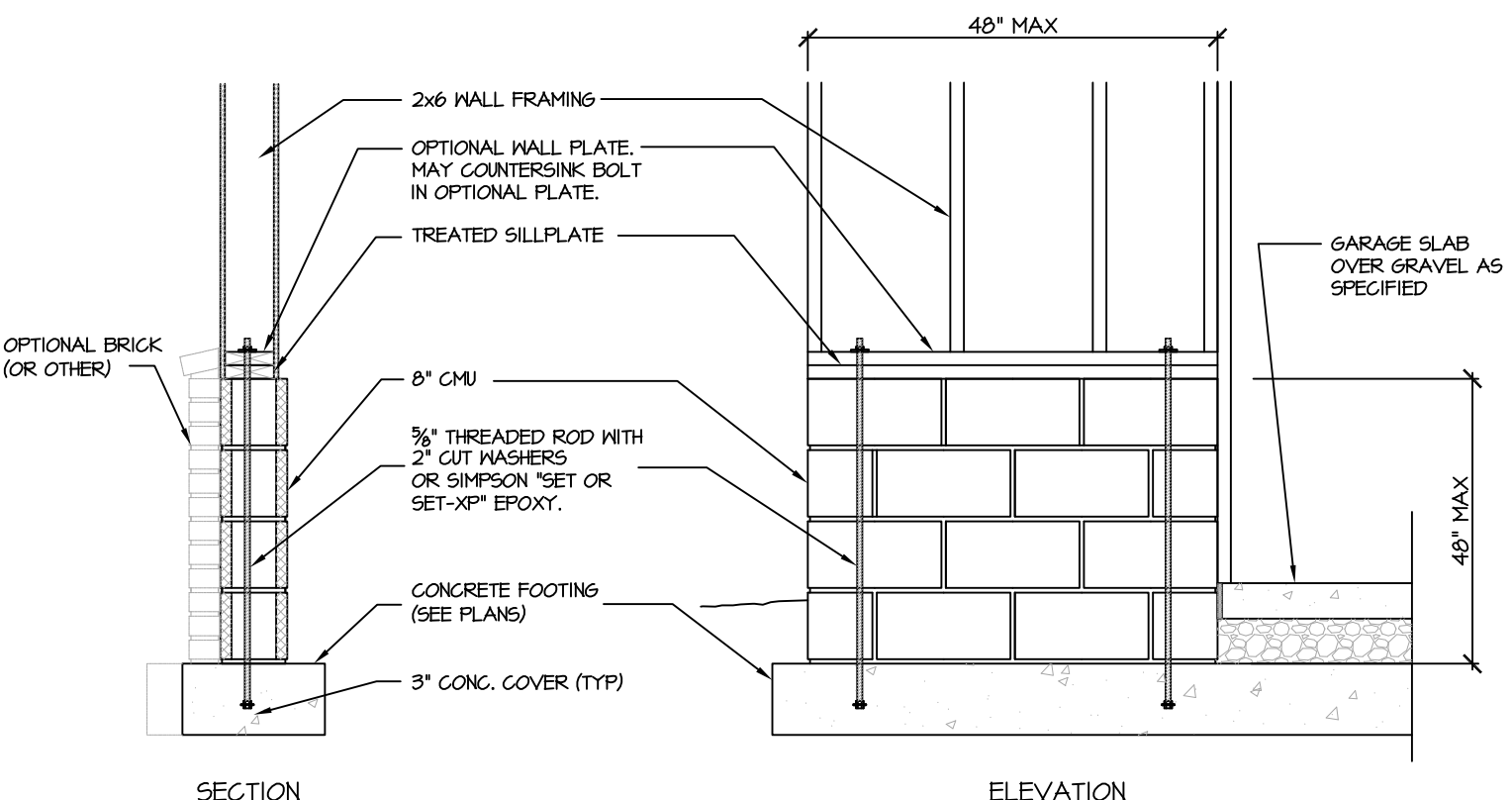
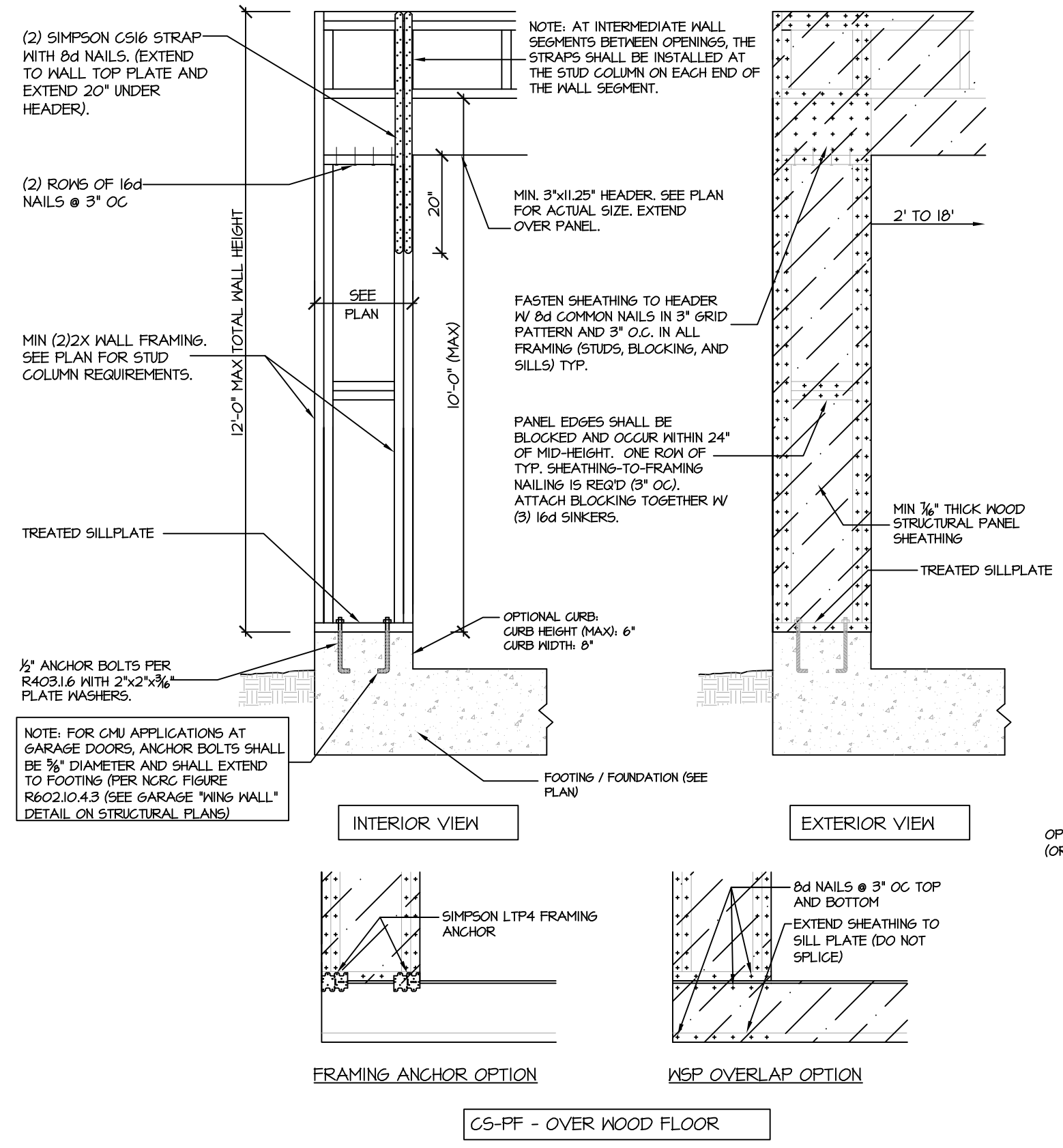
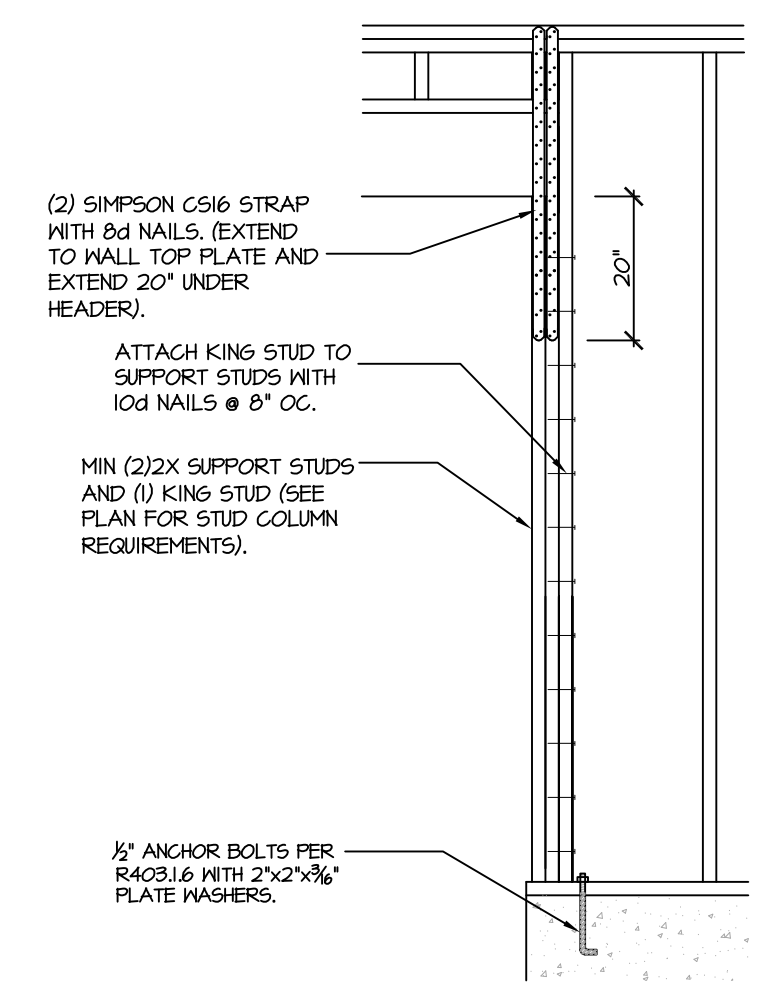
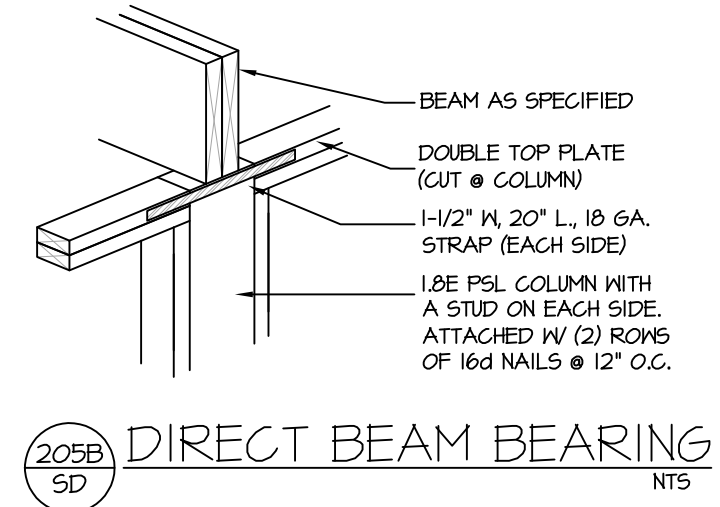
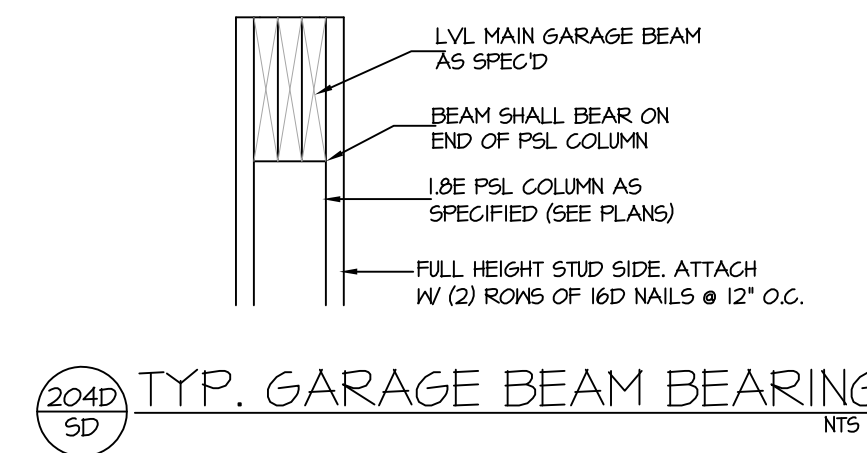
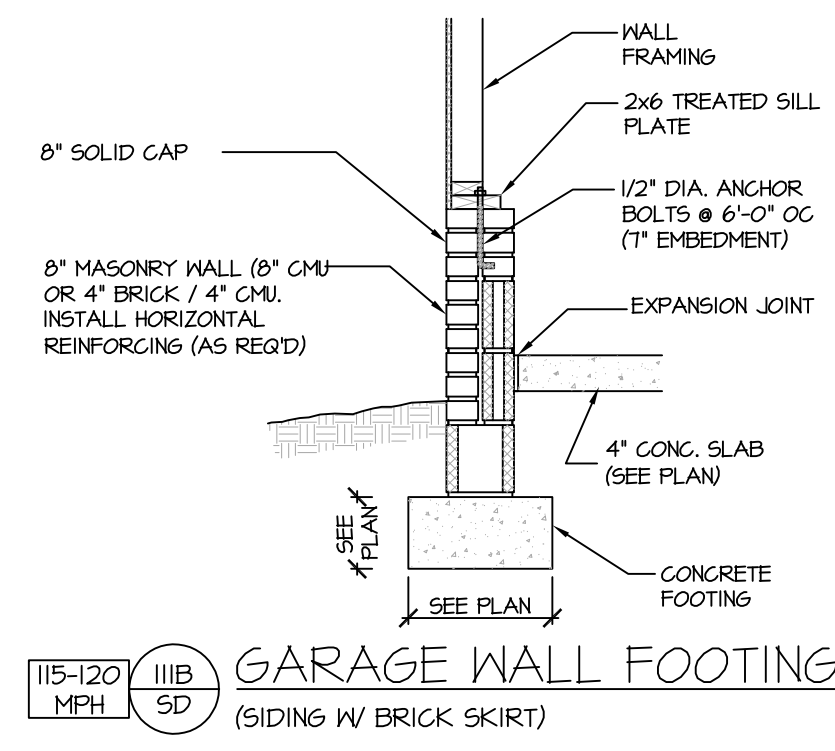
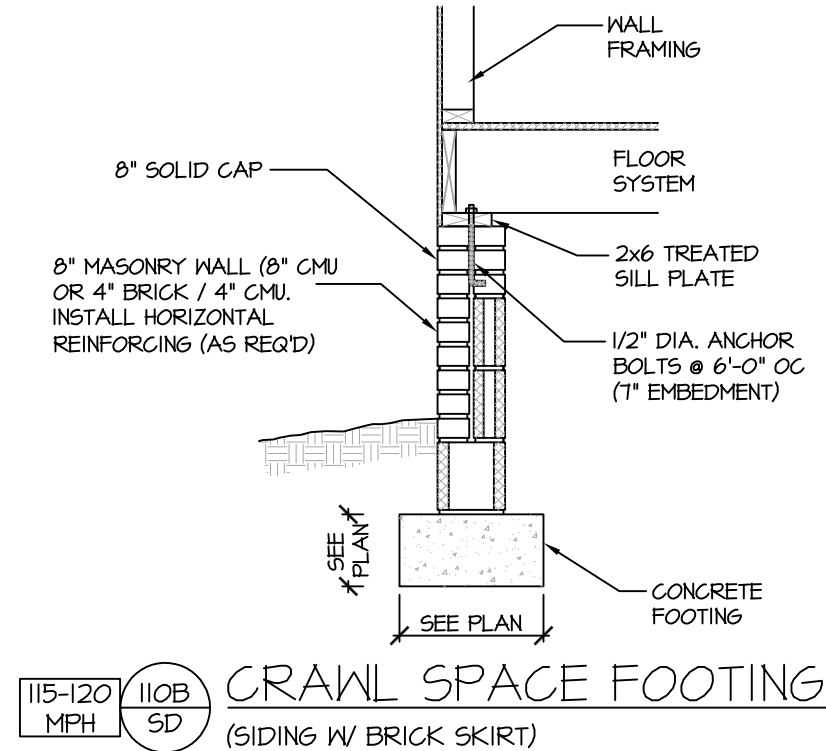
10. ALL ROOF TRUSS AND I-JOIST LAYOUTS SHALL BE PREPARED IN ACCORDANCE WITH THE SEALED STRUCTURAL DRAWINGS. TRUSSES AND I-JOISTS SHALL BE INSTALLED ACCORDING TO THE MANUFACTURER'S SPECIFICATIONS. ANY CHANGE IN TRUSS OR I-JOIST LAYOUT SHALL BE COORDINATED WITH SOUTHERN ENGINEERS.

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 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'-0". SEE ALSO SECTION R103.1.3 LINTELS.



**PROJECT #**  
**20-1403**

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**Southern Engineers, P.A.**  
 3716 Benson Drive, Raleigh, NC 27609  
 Phone: (919) 878-1617  
 License: C-1287  
 www.southernengineers.com

**H Squared Home Design, Inc.**  
 165 Heatherstone Ct,  
 Benson, NC 27504  
 Phone: (919) 207-1403

**THE LILLINGTON**  
 SIDE LOAD GARAGE  
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