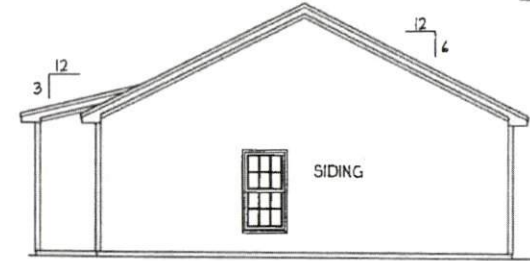




*SHOWN AS MONO SLAB

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



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

ATTIC VENTILATION:

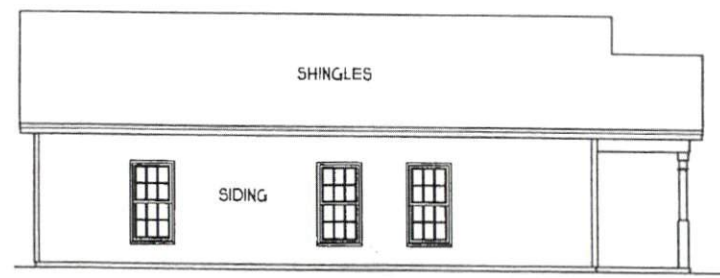
THE NET FREE VENTILATING AREA SHALL BE NOT LESS THAN 1 TO 150 OF THE AREA OF THE SPACE VENTILATED EXCEPT THAT THE AREA MAY BE 1 TO 300 PROVIDED AT LEAST 50 PERCENT OF THE REQUIRED VENTILATING AREA IS PROVIDED BY VENTILATORS LOCATED IN THE UPPER PORTION OF THE SPACE TO BE VENTILATED AT LEAST 3 FEET ABOVE 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 1218 SQ.FT.
1218/150 = 8.12 SQ.FT. NET FREE AREA

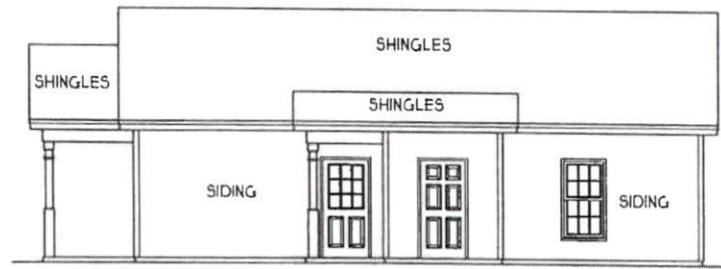
ENERGY COMPLIANCE

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



LEFT ELEVATION
SCALE 1/8" = 1'-0"



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

H SQUARED HOME DESIGN, INC.

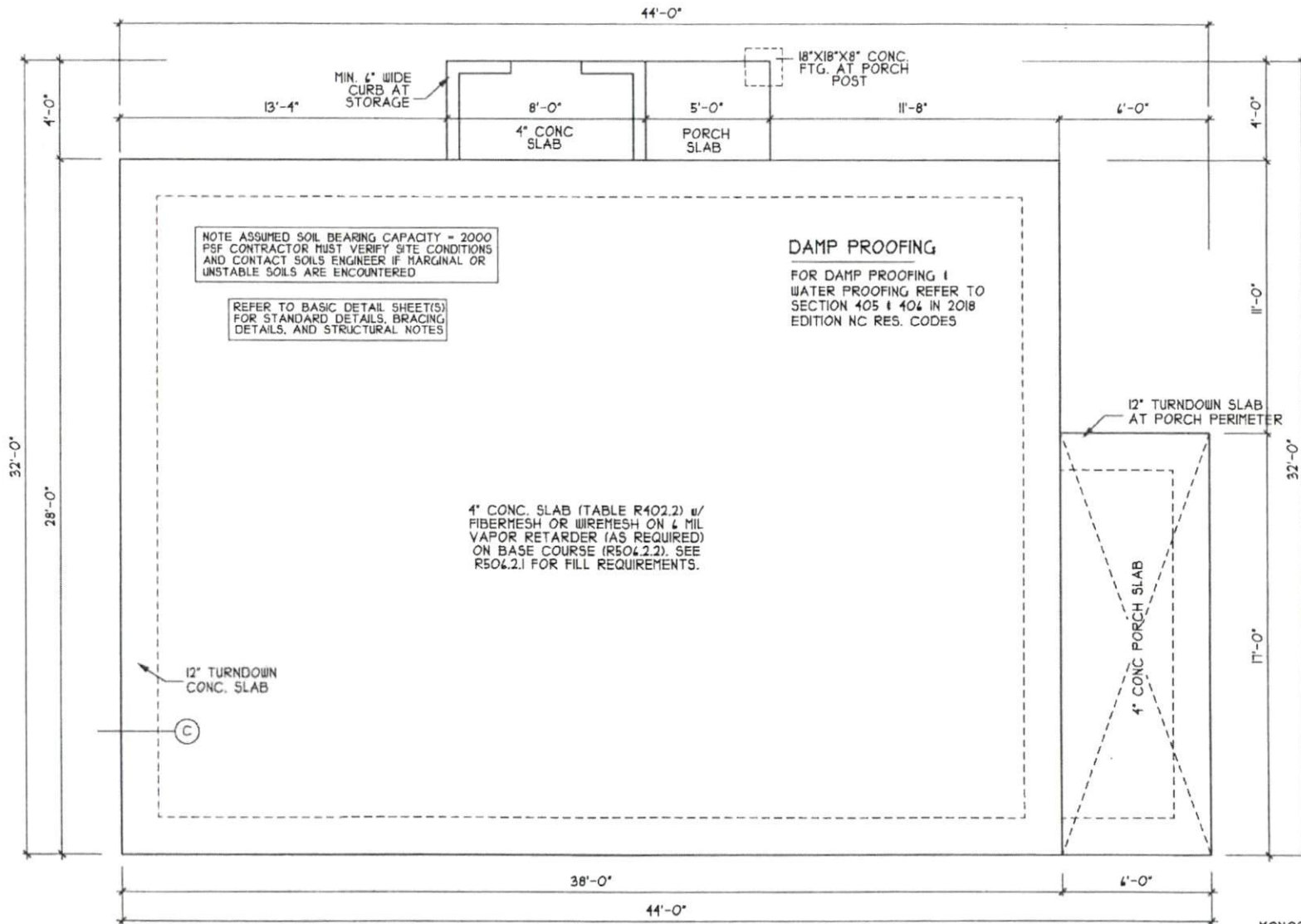
THE NICHOLAS
RIGHT SIDE ENTRY
BVA BUILDERS

HEATED FOOTAGE:
#1064

SQUARE FOOTAGE:
= 1084
= 102
FRONT PORCH = 20
SIDE PORCH = 32
STORAGE

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

DATE: 07/17/23
1 STORY
FILE: 081422



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



THE NICHOLAS
RIGHT SIDE ENTRY
BVA BUILDERS

HEATED FOOTAGE
#1064

SQUARE FOOTAGE
= 1064
FIRST FLOOR = 102
FRONT PORCH = 20
SIDE PORCH = 32
STORAGE

HEATHER HALL
185 HEATHERSTONE CT
DENSON NC 27504
(888) 207-1403

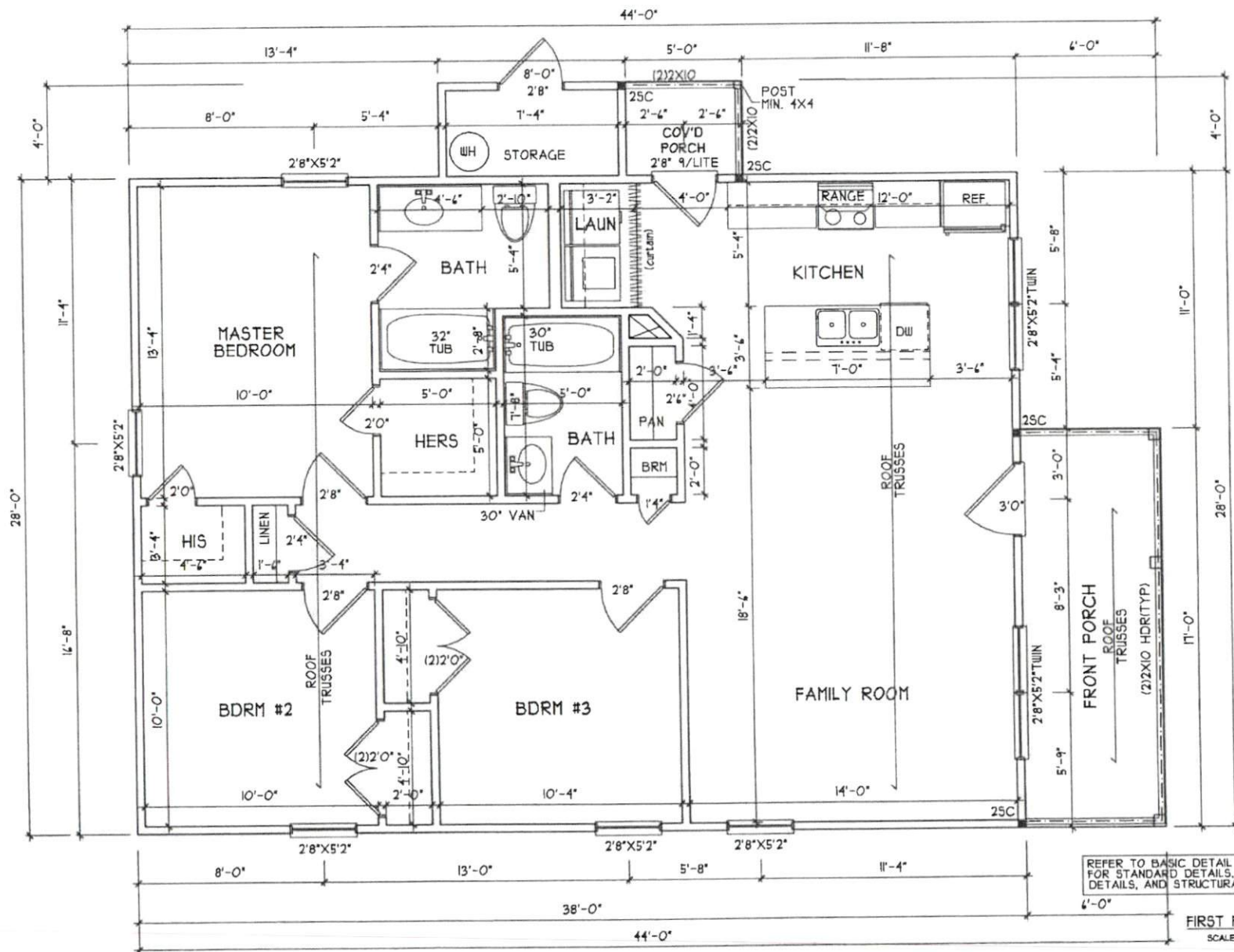


FOR DETAILS OF THIS
FOUNDATION PLAN, REFER TO
THE BASIC DETAIL SHEET(S)
FOR STANDARD DETAILS, BRACING
DETAILS, AND STRUCTURAL NOTES.

DATE: 01/11/22

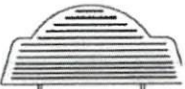
1 STORY

FILE: 081422



REFER TO BASIC DETAIL SHEET(S)
FOR STANDARD DETAILS, BRACING
DETAILS, AND STRUCTURAL NOTES

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



THE NICHOLAS
HOME BUILDERS
BVA BUILDERS

HEATED FOOTAGE
#1064

SQUARE FOOTAGE
= 1064
FIRST FLOOR = 1022
FRONT PORCH = 20
SIDE PORCH = 22
STORAGE

HEATHER HALL
165 HEATHERSTONE CT
BOBSON, NC 27504
(800) 207-1103

H SQUARED
HOME
DESIGN, INC.

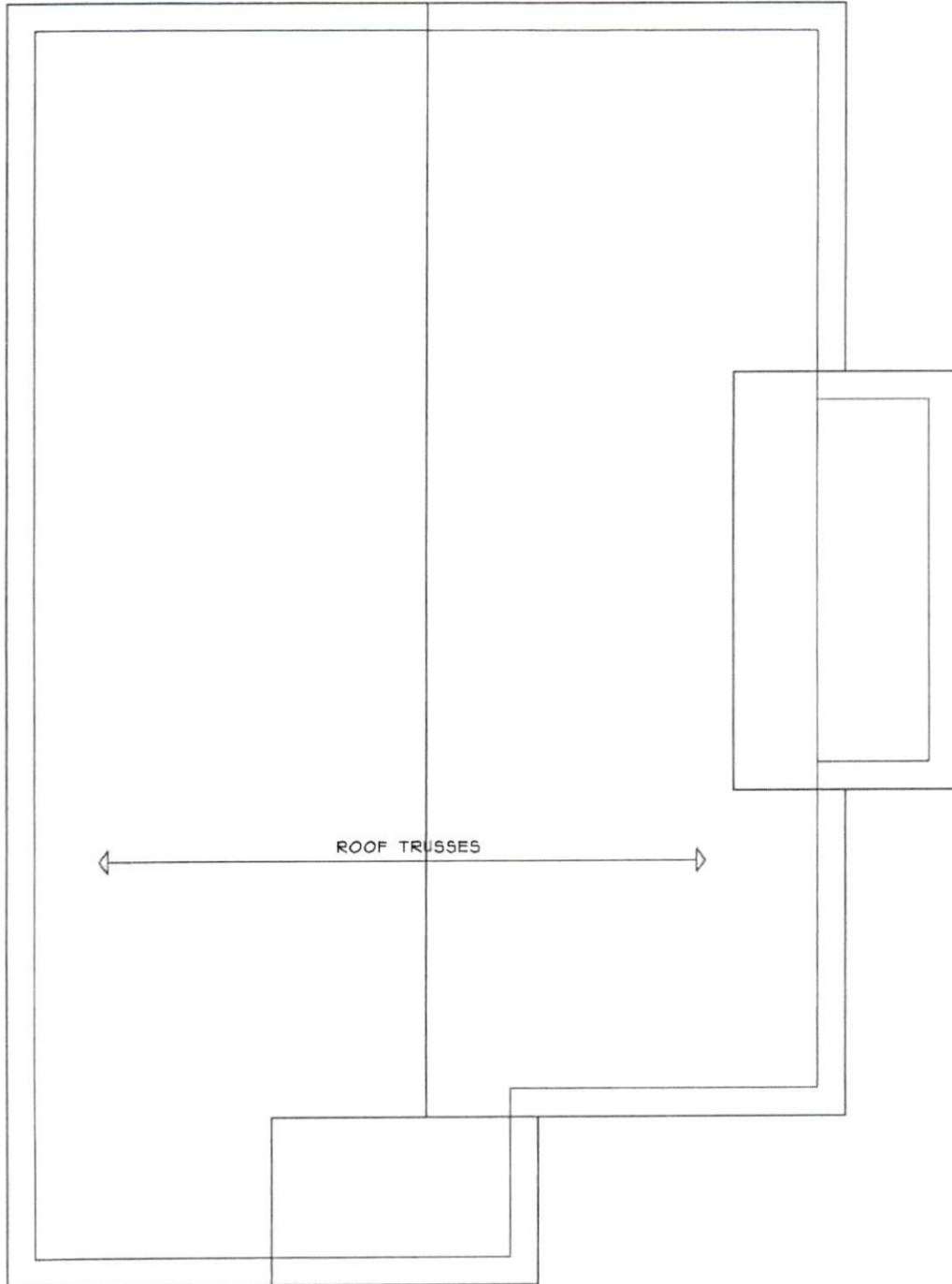


THIS PLAN IS THE PROPERTY OF H SQUARED HOME DESIGN, INC. IT IS TO BE USED ONLY FOR THE PROJECT AND SITE SPECIFICALLY IDENTIFIED HEREON. NO PART OF THIS PLAN IS TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM.


DATE: 01/11/22

I STORY

FILE: 081422



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

NO. 081422 1 STORY	DATE: 07/17/22 ANY CHANGES TO THE SPECIFIED REQUIREMENTS OR CONDITIONS SHALL BE LISTED IN THIS CHANGE LOG. NO. 3 IS MANDATORY. THE PLAN HAS BEEN CHANGED TO ACCOMMODATE WITH NORTH CAROLINA STATE RESIDENTIAL BUILDING CODES SOU REVISION.	 H SQUARED HOME DESIGN, INC.	HEATHER HALL 165 HEATHERSTONE CT BENSON NC 27504 (919) 207-1403	SQUARE FOOTAGE FIRST FLOOR = 1064 FRONT PORCH = 102 SIDE PORCH = 20 STORAGE = 32	HEATED FOOTAGE #1064	THE NICHOLAS <small>RIGHT SIDE ENTRY</small> BVA BUILDERS



STRUCTURAL NOTES

1. ALL CONSTRUCTION SHALL CONFORM TO THE LATEST REQUIREMENTS OF THE NORTH CAROLINA STATE RESIDENTIAL CODE - 2018 EDITION, PLUS ALL LOCAL CODES AND REGULATIONS. THE STRUCTURAL ENGINEER OR DESIGNER IS NOT RESPONSIBLE FOR, AND WILL NOT HAVE CONTROL OF, CONSTRUCTION METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES, OR FOR SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE CONSTRUCTION WORK. NOR WILL THE ENGINEER OR DESIGNER 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 (R301.4)	LIVE LOAD (PSF)	DEAD LOAD (LL)	DEFLECTION (L)
ROOMS OTHER THAN SLEEPING ROOMS	40	10	L/360
SLEEPING ROOMS	30	10	L/360
ATTIC WITH PERMANENT STAIR	40	10	L/360
ATTIC WITH OUT PERMANENT STAIR	20	10	L/240
ATTIC WITH OUT STORAGE	40	10	L/360
STAIRS	40	10	L/360
EXTERIOR BALCONIES	40	10	L/360
DECKS	40	10	L/360
GUARDRAILS AND HANDRAILS	200	---	---
PASSENGER VEHICLE GARAGES	50	10	L/360
FIRE ESCAPES	40	10	L/360
SNOW	20	---	---
WIND LOAD (BASED ON 15/30 MPH WIND VELOCITY + EXPOSURE B)	---	---	---

3. WALL BRACING: BRACED WALL PANELS SHALL BE CONSTRUCTED ACCORDING TO SECTION R402.3.

THE AMOUNT AND LOCATION OF BRACING SHALL COMPLY WITH TABLE R402.3.1. THE LENGTH OF BRACED PANELS SHALL BE DETERMINED BY SECTION R402.3.4. LATERAL BRACING SHALL BE SATISFIED PER METHOD 3 BY CONTINUOUSLY SHEATHING WALLS WITH STRUCTURAL SHEATHING PER SECTION R402.3.3. NOTE THAT ANY SPECIFIC BRACED WALL DETAIL SHALL BE INSTALLED AS SPECIFIED.

4. 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 CURING SHALL BE TAKEN FROM THE EXIT END OF THE PUMP.

5. ALLOWABLE SOIL BEARING PRESSURE ASSIGNED 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 (Fcd) = 425 PSI - MIN.

7. ALL WOODEN BEAMS AND HEADERS SHALL HAVE THE FOLLOWING END SUPPORTS: (1) 2x4 STUD COLUMN FOR 4'-0" MAX. BEAM SPAN (UNO), (2) 2x4 STUDS FOR BEAM SPAN GREATER THAN 4'-0" (UNO).

8. L.V.L. SHALL BE LAMINATED VENEER LUMBER: Fv=2600 PSF, Fv=285 PSF, E=1.9x10⁶ PSF. P.S.L. SHALL BE PARALLEL STRAND LUMBER: Fv=2100 PSF, Fv=210 PSF, E=2.0x10⁶ PSF. L.S.L. SHALL BE LAMINATED STRAND LUMBER: Fv=2500 PSF, Fv=400 PSF, E=1.55x10⁶ PSF. INSTALL ALL CONNECTIONS PER MANUFACTURER'S INSTRUCTIONS.

9. ALL ROOF TRUSS AND I-JOIST LAYOUTS SHALL BE PREPARED IN ACCORDANCE WITH ANY 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 DESIGNER OR ENGINEER.

10. ALL STRUCTURAL STEEL SHALL BE COORDINATED WITH DESIGNER OR ENGINEER. 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 NAIL TO THE SOLE PLATE, AND SOLE PLATE IS NAILED OR BOLTED TO THE BEAM FLANGE x 48" O.C.. ALL STEEL TUBING SHALL BE ASTM A500.

11. REBAR SHALL BE DEFORMED STEEL, ASTM A601, GRADE 40.

12. FITCH 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 4" FROM EACH END.

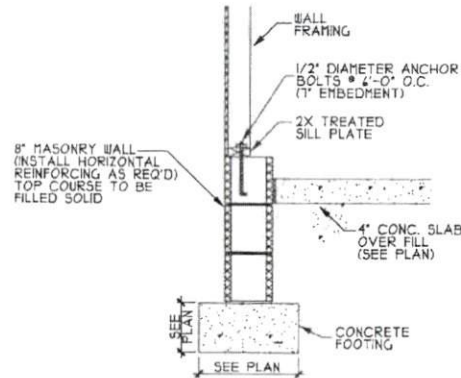
13. BRICK LINTELS SHALL BE 3 1/2"x6 1/2"x14" STEEL ANGLE FOR UP TO 4'-0" SPAN AND 4"x6 1/2"x14" STEEL ANGLE WITH 1/2" LEG VERTICAL FOR SPANS UP TO 5'-0" (UNO).

14. THE POSITIVE AND NEGATIVE DESIGN PRESSURE FOR DOORS AND WINDOWS FOR A MEAN ROOF HEIGHT OF 35 FEET OR LESS SHALL BE 25 PSF.

15. THE POSITIVE AND NEGATIVE DESIGN PRESSURES REQUIRED FOR ANY ROOF OR WALL CLADDING APPLICATION NOT SPECIFICALLY ADDRESSED IN THE NORTH CAROLINA STATE RESIDENTIAL CODE - 2018 EDITION SHALL BE AS FOLLOWS:

ROOF:	15.4 PSF - 2:12 PITCH OR LESS
	34.8 PSF - 2:12 TO 1:12 PITCH
	21 PSF - 1:12 TO 0:12 PITCH

WALLS:
24.1 PSF - WALLS



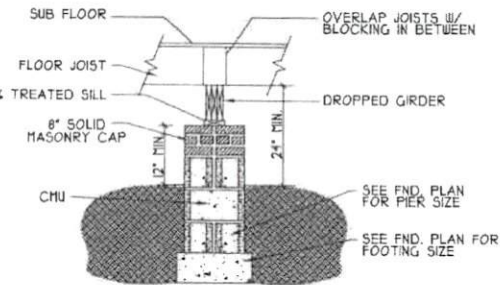
(A) GARAGE WALL FOOTING (SIDING)

HEADER/BEAM & COLUMN NOTES

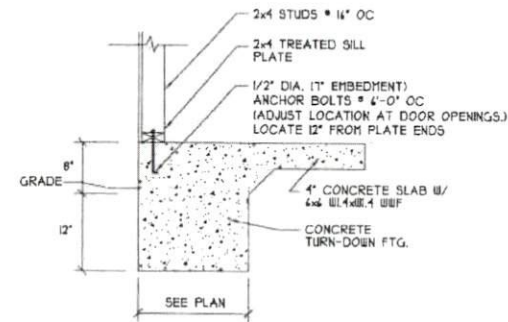
- ALL EXTERIOR AND LOAD BEARING HEADERS SHALL BE MIN. (1) 2x4 (4" WALL) OR (2) 2x6 (4" WALL) WITH (1) SUPPORT STUD, UNLESS NOTED OTHERWISE.
- THE NUMBER SHOWN AT BEAM AND HEADER SUPPORTS INDICATES THE NUMBER OF SUPPORT STUDS REQUIRED IN STUD POCKET OR COLUMN. THE NUMBER OF KING STUDS AT EACH END OF HEADERS IN EXTERIOR WALLS SHALL BE ACCORDING TO ITEM "d" IN TABLE R402.3(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

TRUSS SYSTEM REQUIREMENTS NC (2018 NCCRC):

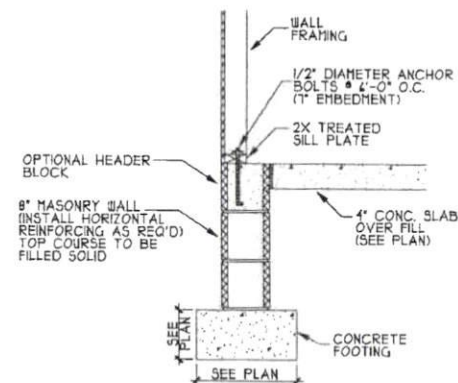
- TRUSS SYSTEM LAYOUTS (PLACEMENT PLANS) SHALL BE DESIGNED IN ACCORDANCE WITH SEALED TRUSS PROFILES. ANY NEED TO CHANGE TRUSSES SHALL BE COORDINATED WITH THE TRUSS MANUFACTURER.
- TRUSS SCHEMATICS (PROFILES) SHALL BE PREPARED AND SEALED BY TRUSS MANUFACTURER.
- ALL TRUSSES SHALL BE DESIGNED FOR BEARING ON SPF #2 OR #3 PLATES OR LEDGERS (UNO).
- ALL REQUIRED ANCHORS FOR TRUSSES DUE TO UPLIFT OR BEARING SHALL MEET THE REQUIREMENTS AS SPECIFIED ON THE TRUSS SCHEMATICS.



(B) DROPPED GIRDER



(C) TURN DOWN SLAB FOOTING NTS



(D) STEM WALL FOOTING (SIDING)

DETAIL SHEET
(115/120 MPH)

NOT ALL DETAILS MAY
APPLY TO THIS PLAN

HEATHER HALL
185 HEATHERSTONE CT
BENSON NC 27504
PH: 207-463

H SQUARED
HOME
DESIGN, INC.



DATE:

FILE: