

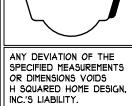
KENZIE

HOMES, SYNDICATE THE

FIRST FLOOR FRONT PORCH

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

H SQUARED HOME DESIGN, INC.



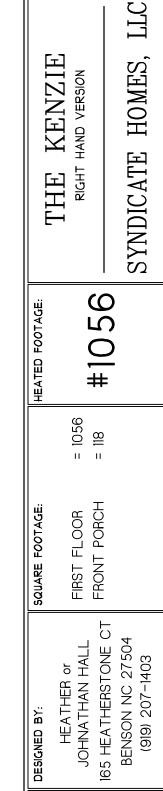
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DATE: 08/22/2022

I STORY





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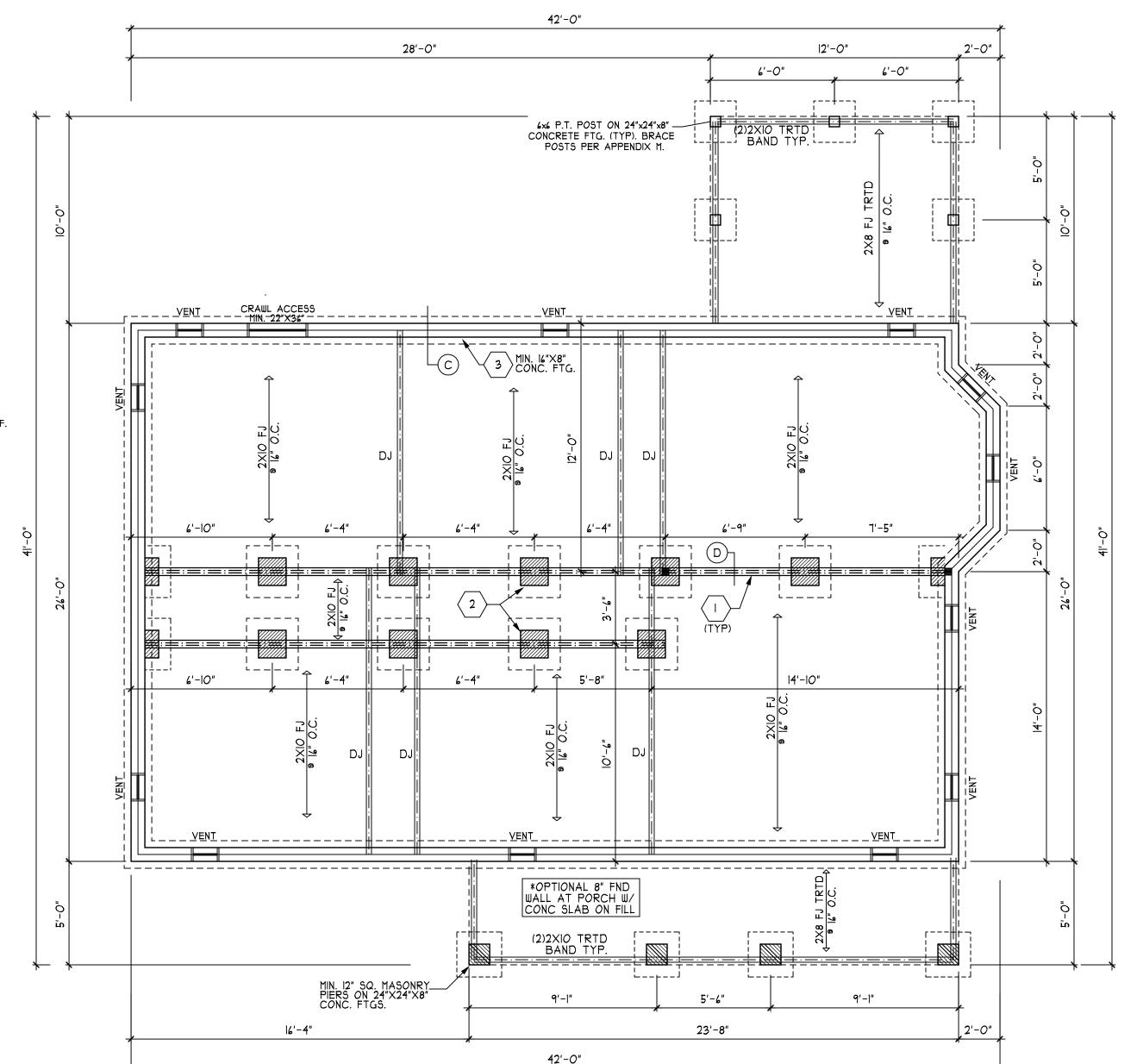
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O81922



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

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

CONCRETE BLOCK PIER SIZE SHALL BE:

SIZE HOLLOW MASONRY

8 x 16 UP TO 32" HIGH UP TO 5'-O" HIGH

12 x 16 UP TO 48" HIGH UP TO 9'-O" HIGH

16 x 16 UP TO 64" HIGH UP TO 12'-O" HIGH

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

② WALL FOOTING AS FOLLOWS:
DEPTH: 8" - UP TO 2-1/2 STORY
10" - 3 STORY

IIIDTH, SIDING (OR FOIIAL)

WIDTH: SIDING (OR EQUAL)
- 16" - UP TO 2-1/2 STORY
- 20" - 3 STORY

- 20" - 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 R404.1.1 (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) 2xIO SYP#2 OR SPF#2 GIRDER.
- (5) (2) 1.75X9.25 LVL OR LSL GIRDER
- (6) (3) 1.75×9.25 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:
 "SJ" = SINGLE JOIST
 "DJ" = DOUBLE JOIST
 "TJ" = TRIPLE JOIST

DAMP PROOFING

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

FND VENTS

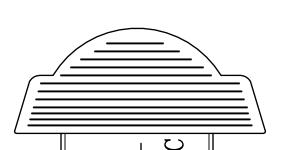
| 1056/150 = 1.04 SQ. FT. REQ'D | 1.04/.88 = 8 VENTS | *WITH VAPOR BARRIOR

*ONE VENT MUST BE WITHIN 3'-O" OF EVERY CRNR.

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

FOUNDATION PLAN

SCALE 1/4" = 1'-0"



THE KENZIE RIGHT HAND VERSION SYNDICATE HOMES,

#1056

= 1056

FIRST FLOOR FRONT PORCH

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

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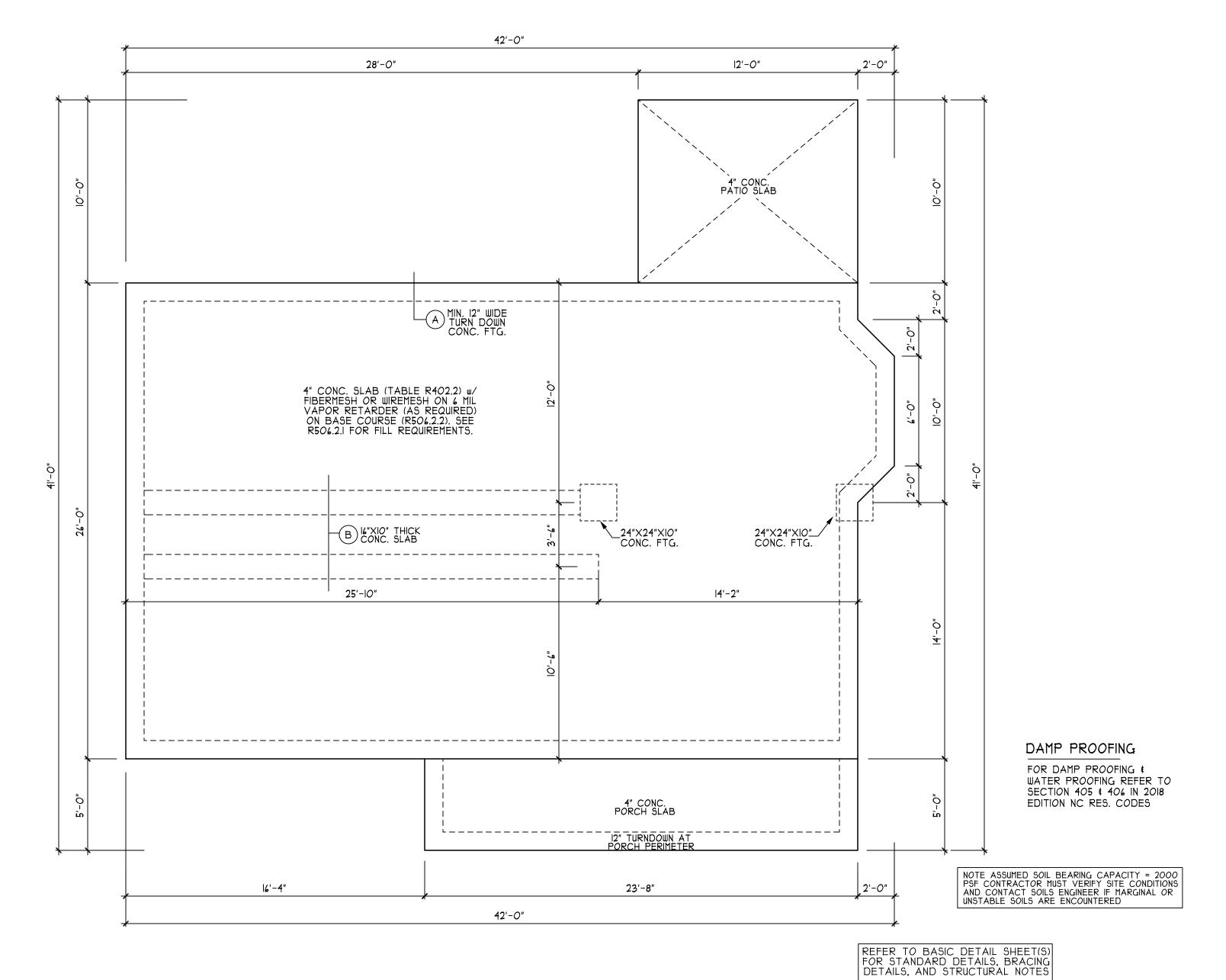
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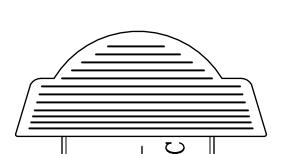
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MONOLITHIC SLAB FOUNDATION PLAN

SCALE 1/4" = 1'-0"

I STORY





HOMES,

SYNDICATE



0 5 #10

FIRST FLOOR FRONT PORCH

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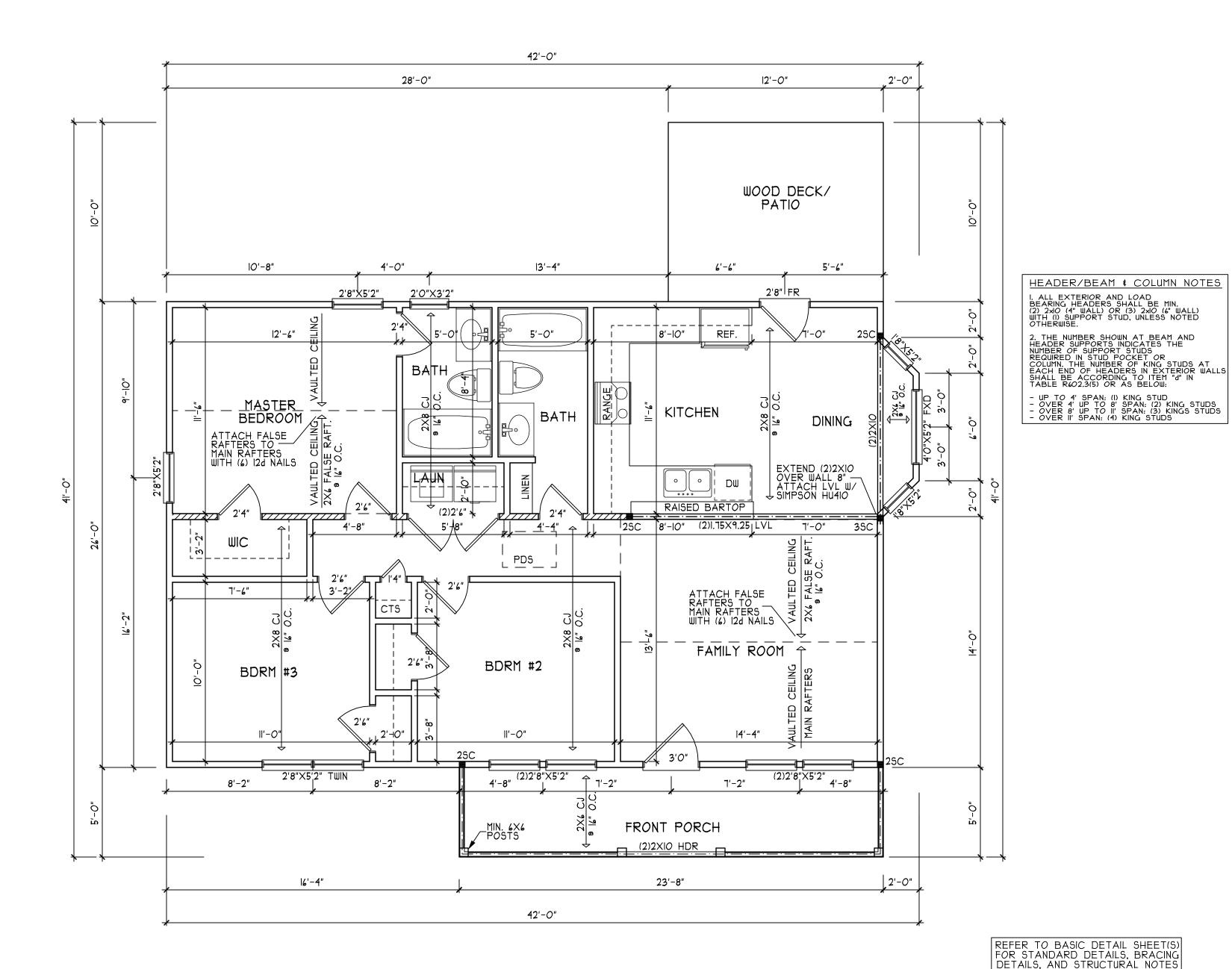
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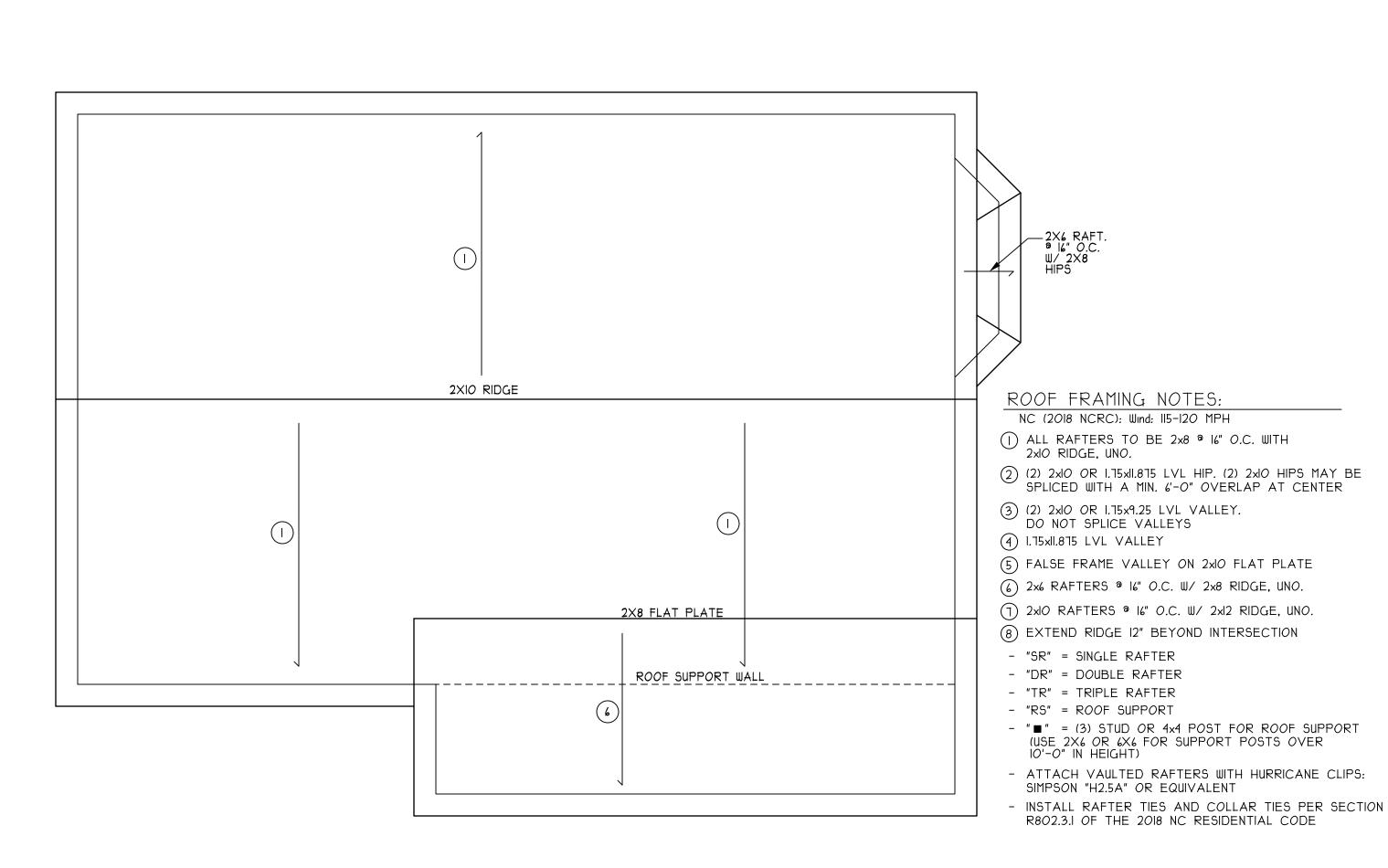
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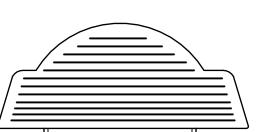
FIRST FLOOR PLAN

SCALE 1/4" = 1'-0"

I STORY







HOMES,

SYNDICATE

KENZIE THE

> 5 #10

1056 118 11 11

FIRST FLOOR FRONT PORCH

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

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

ROOF PLAN

SCALE 1/4" = 1'-0"

DATE:

H SQUARED.

08/22/2022

1 STORY

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 MEANS, 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.
- 2) DESIGN LOADS (R301.4) LIVE LOAD DEAD LOAD DEFLECTION (PSF) L/360 L/360 ROOMS OTHER THAN SLEEPING ROOMS 40 SLEEPING ROOMS ATTIC WITH PERMANENT STAIR L/360 L/360 L/240 L/360 L/360 ATTIC WITH OUT PERMANENT STAIR ATTIC WITH OUT STORAGE STAIRS EXTERIOR BALCONIES L/360 DECKS GUARDRAILS AND HANDRAILS PASSENGER VEHICLE GARAGES L/360 L/360 FIRE ESCAPES
- WIND LOAD (BASED ON III5/120 MPH WIND VELOCITY & EXPOSURE B)
- 3) WALL BRACING: BRACED WALL PANELS SHALL BE CONSTRUCTED ACCORDING TO SECTION R602.10.3. THE AMOUNT AND LOCATION OF BRACING SHALL COMPLY WITH TABLE R602.10.1. THE LENGTH OF BRACED PANELS SHALL BE DETERMINED BY SECTION R602.10.4. LATERAL BRACING SHALL BE SATISFIED PER METHOD 3 BY CONTINUOUSLY SHEATHING WALLS WITH STRUCTURAL SHEATHING PER SECTION R602.10.3. 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 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.
- 5) 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 TO THE FOUNDATION WALL SHALL BE PROVIDED WITH ADEQUATE DRAINAGE, AND SHALL BE GRADED SO AS TO DRAINSURFACE 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=915 PSI).
 PLATE MATERIAL MAY BE SPF # 3 OR SYP #3 (Fc(perp) = 425 PSI - MIN).
- 1) ALL WOODEN BEAMS AND HEADERS SHALL HAVE THE FOLLOWING END SUPPORTS: (I) 2×4 STUD COLUMN FOR 4'-0'' MAX. BEAM SPAN (UNO), (2) 2×4 STUDS FOR BEAM SPAN GREATER THAN 6'-O" (UNO).
- 8) L.V.L. SHALL BE LAMINATED VENEER LUMBER: Fb=2400 PSI, Fv=285 PSI, E=1.9×10⁴ PSI. P.S.L. SHALL BE PARALLEL STRAND LUMBER: Fb=2900 PSI, Fv=290 PSI, E=2.0×10⁴ PSI. L.S.L. SHALL BE LAMINATED STRAND LUMBER: Fb=2250 PSI, Fv=400 PSI, E=1.55×10⁴ PSI. INSTALL ALL CONNECTIONS PER MANUFACTURERS 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 MANUFACTURE'S SPECIFICATIONS. ANY CHANGE IN TRUSS OR I-JOIST LAYOUT SHALL BE COORDINATED WITH DESIGNER OR ENGINEER.
- 10) ALL STRUCTURAL STEEL SHALL BE ASTM A-34. 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.
- II) REBAR SHALL BE DEFORMED STEEL, ASTM615, GRADE 60.
- 12) FLITCH BEAMS SHALL BE BOLTED TOGETHER USING (2) ROWS OF 1/2" DIAMETER BOLTS (ASTM A3OT) 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.
- 13) 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". SEE PLANS FOR SPANS OVER 9'-0".
- 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:
- 45.4 PSF 2.25:12 PITCH OR LESS 34.8 PSF 2.25:12 TO 7:12 PITCH 21 PSF - 7:12 TO 12:12 PITCH

WALLS:

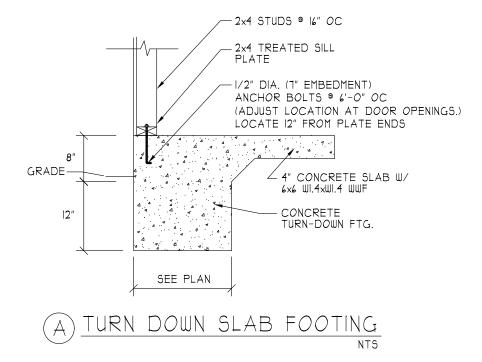
24.1 PSF - WALLS SEE ALSO SECTION R103.1.3 LINTELS

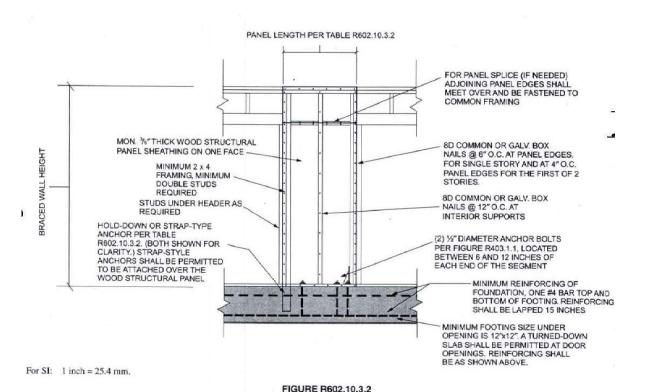
HEADER/BEAM & COLUMN NOTES
I. ALL EXTERIOR AND LOAD BEARING HEADERS SHALL BE MIN. (2) 2×10 (4" WALL) OR (3) 2×10 (6" WALL) WITH (1) SUPPORT STUD, UNLESS NOTED OTHERWISE.
2. THE NUMBER SHOWN AT BEAM AND HEADER SUPPORTS INDICATES THE NUMBER OF SUPPORT STUDS REQUIRED IN STUD POCKET OR COLUMN. THE NUMBER 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:
- UP TO 4' SPAN: (1) KING STUD - OVER 4' UP TO 8' SPAN: (2) KING STUDS - OVER 8' UP TO 11' SPAN: (3) KINGS STUDS - OVER 11' SPAN: (4) KING STUDS

TRUSS SYSTEM REQUIREMENTS

NC (2018 NCRC):

- I. TRUSS SYSTEM LAYOUTS (PLACEMENT PLANS) SHALL BE DESIGNED IN ACCORDANCE WITH SEALED STRUCTURAL PLANS. ANY NEED TO CHANGE TRUSSES SHALL BE COORDINATED
- 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 (UNO).
- 4. ALL REQUIRED ANCHORS FOR TRUSSES DUE TO UPLIFT OR BEARING SHALL MEET THE REQUIREMENTS AS SPECIFIED ON THE TRUSS SCHEMATICS.





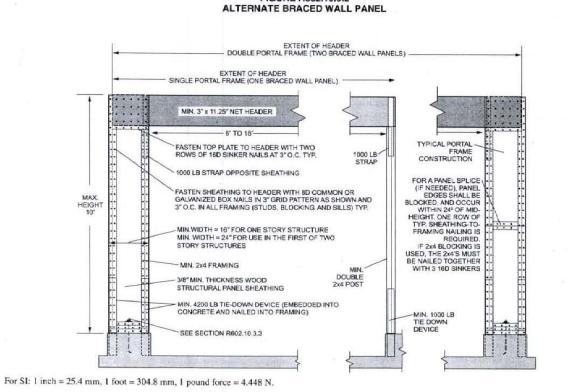
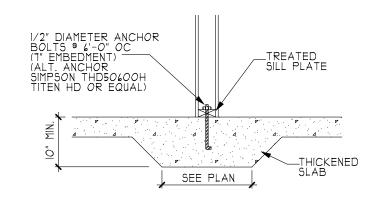
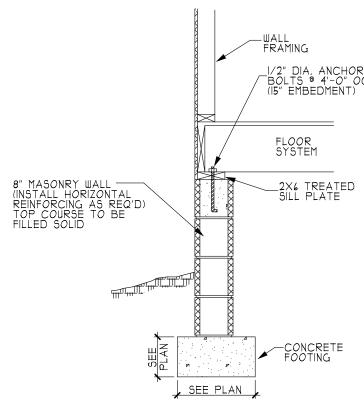
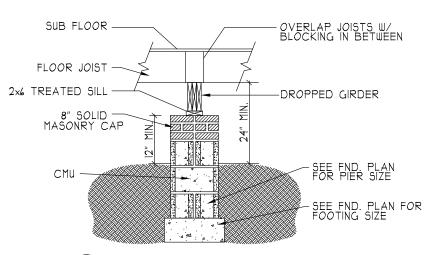


FIGURE R602.10.3.3 METHOD PFH: PORTAL FRAME WITH HOLD-DOWNS

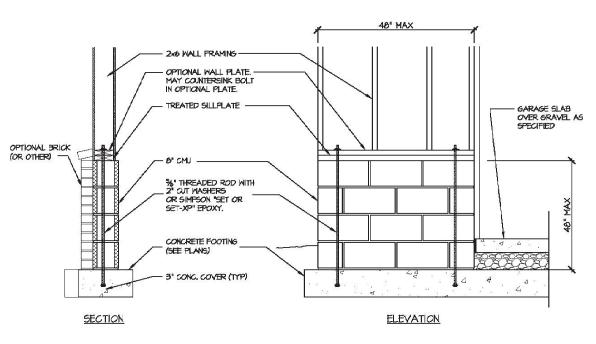


(INTERIOR BEARING WALL)

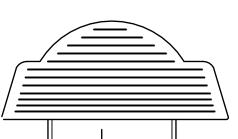




(D) DROPPED GIRDER



GARAGE WING WALL' REINFORCING PER IRC FIGURE R602.10.4.3



BUILDIN SHEET SIC

 \triangleleft

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MPH)

20

ETAIL 115/120

9 2 NOTE AILS / PLAN. PLEASE ALL DET EVERY

HEATHER HALL
35 HEATHERSTONE C'
BENSON NC 27504
(919) 207-1403 $\dot{\mathcal{O}}$ 165

ARED SQUAF HOME ESIGN,

N HAS BEEN DRAWN DANCE WITH NORTH STATE RESIDENTIAL CODES 2018 EDITION. SPEC OR INC.

DATE: