#### MATERIALS

1. FRAMING LUMBER SHALL BE #2 SPRUCE PINE FIR (SPF) WITH THE FOLLOWING DESIGN PROPERTIES:

2. FRAMING LUMBER EXPOSED TO WEATHER OR IN CONTACT WITH THE GROUND, CONCRETE OR MASONRY SHALL BE #2 SOUTHERN YELLOW PINE (SYP) TREATED IN ACCORDANCE WITH AWPA C22 WITH THE FOLLOWING DESIGN PROPERTIES: Fb = 1050 PSI Fv = 95 PSI E = 1.6E6 PSI

3. ENGINEERED WOOD BEAMS SHALL BE LAMINATED VENEER LUMBER (LVL) OR PARALLEL STRAND LUMBER (PSL) WITH THE Fb = 2900 PSI Fv = 285 PSI E = 1.9E6 PSI

4. STRUCTURAL STEEL SHALL CONFORM TO ASTM A-36 MINIMUM GRADE.

5. BOLTS SHALL CONFORM TO A307 MINIMUM GRADE.

6. REBAR SHALL BE DEFORMED STEEL CONFORMING TO ASTM A615 GRADE 60.

7. POURED CONCRETE SHALL HAVE A MINIMUM SPECIFIED COMPRESSIVE STRENGTH OF 3000 PSI AT 28 DAYS. MATERIALS USED TO PRODUCE CONCRETE SHALL COMPLY WITH THE APPLICABLE STANDARDS LISTED IN ACI 318 OR ASTM C 1157.

8. CONCRETE LOCATED PER TABLE R402.2 SHALL BE AIR ENTRAINED WITH THE TOTAL AIR CONTENT NOT LESS THAN 5 PERCENT OR MORE THAN 7 PERCENT.

9. MASONRY UNITS SHALL CONFORM TO ACI 530/ASCE 5/TMS 402 AND MORTAR SHALL COMPLY WITH ASTM C 270.

10. ALLOWABLE SOIL BEARING PRESSURE 2000 PSF.

#### GENERAL

ENGINEER'S SEAL APPLIES TO STRUCTURAL COMPONENTS ONLY AND DOES NOT CERTIFY ARCHITECTURAL LAYOUT OR DIMENSIONAL ACCURACY. ENGINEER IS NOT RESPONSIBLE FOR CONSTRUCTION METHODS OR ANY DEVIATION FROM THE

ALL CONSTRUCTION, WORKMANSHIP, MATERIAL QUALITY AND SELECTION SHALL BE IN ACCORDANCE WITH THE <u>NORTH</u> <u>CAROLINA STATE BUILDING CODE</u> - <u>RESIDENTIAL CODE 2018 EDITION</u> FROM THE INTERNATIONAL RESIDENTIAL CODE 2018 (IRC), AND LOCAL CODES AND REGULATIONS. DIMENSIONS SHALL GOVERN OVER SCALE AND CODE SHALL GOVERN OVER

#### ADDITIONAL LOADS

FIGURE R301.2(4) - BASIC DESIGN WIND SPEED 100 MPH

FIGURE R301.2(2) - SEISMIC DESIGN CATEGORY B

 $\frac{\text{TABLE R301.2(4)}}{\text{FEET OR LESS SHALL BE }25} \text{ PSF}$ 

 $\frac{\mathsf{TABLE}\ \mathsf{R301.2(2)}}{\mathsf{EXPOSURE}\ \mathsf{B}} - \mathsf{COMPONENT}\ \mathsf{AND}\ \mathsf{CLADDING}\ \mathsf{LOADS}\ \mathsf{FOR}\ \mathsf{A}\ \mathsf{MEAN}\ \mathsf{ROOF}\ \mathsf{HEIGHT}\ \mathsf{OF}\ \mathsf{30}\ \mathsf{FEET}\ \mathsf{OR}\ \mathsf{LESS}\ \mathsf{LOCATED}\ \mathsf{IN}$ 

ROOF VALUES BOTH POSITIVE AND NEGATIVE SHALL BE DESIGNED BASED ON ROOF PITCHES AS FOLLOWS:

45.4 PSF FOR 0.12 TO 2.25.12, 34.8 PSF FOR 2.25.12 TO 7.12 AND 21 PSF FOR 7.12 TO 12.12 WALL CLADDING IS DESIGNED FOR A 24.1 PSF POSITIVE AND NEGATIVE PRESSURE

### ENERGY COMPLIANCE:

TABLE N1102.1 - REFER TO TABLE N1101.1 TO DETERMINE THE CLIMATE ZONE BY COUNTY AND REFER TO TABLE N1102.1 FOR R VALUE INSULATION REQUIREMENTS LISTED BY ZONE.

TABLE N1102.1 - ZONE 7 - MAX. GLAZING U FACTOR: 0.40. MIN. INSULATION R VALUES: CEILING R-30, WALLS R-13, FLOORS R-19, BASEMENT WALLS R-7, SLAB PERIMETER R-0, CRAWL SPACE WALLS R-7.

 $\frac{\text{TABLE N1102.1 - ZONE 8 - MAX. GLAZING U FACTOR: 0.40.}}{\text{FLOORS }\frac{1}{R-19}, \text{BASEMENT WALLS }\frac{R-3}{R-10}, \text{SLAB PERIMETER }\frac{1}{R-5} (2 \text{ FT DEEP}), \text{CRAWL SPACE WALLS }\frac{R-30}{R-10}.}$ 

I. STEEL FLITCH BEAMS SHALL BE FASTENED TOGETHER WITH 1/2" DIAMETER BOLTS WITH WASHERS PLACED UNDER THE HREADED END OF THE BOLT. BOLTS SHALL BE SPACED AT MAXIMUM 24" o.c. STAGGERED TOP AND BOTTOM OF BEAM WITH A MINIMUM 2" EDGE DISTANCE. TWO BOLTS SHALL BE LOCATED AT 6" FROM EACH END OF FLITCH BEAM.

2. STEEL BEAMS SHALL BE SUPPORTED AT EACH END WITH A MINIMUM BEARING LENGTH OF 3 1/2" AND FULL FLANGE WIDTH. BEAMS MUST BE ANCHORED AT EACH END WITH A MINIMUM OF FOUR 16d NAILS OR TWO 1/2" x 4" LAG SCREWS.

3. ENGINEERED WOOD BEAMS SHALL BE INSTALLED WITH ALL CONNECTIONS PER MANUFACTURER'S INSTRUCTIONS.

4. ALL BEAMS SHALL BE CONTINUOUSLY SUPPORTED LATERALLY AND SHALL BEAR FULL WIDTH ON THE SUPPORTING WALLS OR COLUMNS INDICATED WITH A MINIMUM OF THREE STUDS.

5. SOLID BLOCKING SHALL BE PROVIDED AT ALL POINT LOADS TO TRANSFER LOADS THROUGH FLOOR LEVELS. COLUMNS SHALL BE CONTINUOUS TO THE FOUNDATION OR TO OTHER STRUCTURAL ELEMENTS.

6. ENGINEERED WOOD FLOOR SYSTEMS AND ROOF TRUSS SYSTEMS SHALL BE PROVIDED FOR REVIEW AND COORDINATED WITH THE ENGINEER OF RECORD. INSTALLATION SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.

7. WALL BRACING REQUIREMENTS SHALL BE IN ACCORDANCE WITH SECTION R602.10 OF THE NORTH CAROLINA RESIDENTIAL

8. BRICK LINTELS SHALL BE 3  $1/2 \times 3 1/2 \times 1/4$  STEEL ANGLE FOR UP TO 6'0" MAXIMUM SPAN AND 6  $\times 4 \times 5/16$  FOR SPANS

9. BRICK LINTELS AT SLOPED AREAS SHALL BE 4  $\times$  3 1/2  $\times$  1/4 STEEL ANGLE WITH 16d NAILS IN 3/16" HOLES IN 4" ANGLE LEG AT 12" o.c. TO DOUBLE RAFTER. WHEN THE SLOPE EXCEEDS 4:12 A MINIMUM OF 3 x 3 x 1/4 PLATES SHALL BE WELDED AT 24" o.c.

MEAN ROOF HEIGHT CLADDING POSITIVE & NEGATIVE PRESSURE = 21

1 1/2 STORY = 19'-0" CLADDING POSITIVE & NEGATIVE PRESSURE =

CLADDING POSITIVE & NEGATIVE PRESSURE =

ANCHOR BOLTS INSTALL ANCHOR BOLTS, NUTS, AND WASHERS PER CODE AT ALL EXTERIOR WALL

TREATED PLATES AND AT INTERIOR BEARING

TREATED PLATES ON SLAB

FOUNDATIONS. TO BE A MINIMUM OF 6' O.C. AND WITHIN 12" FROM THE ENDS OF EACH PLATE.

DESIGN PRESSURES
MINIMUM RATING: 25 PSF

LOW E-GLASS WINDOWS

1	ABBREVIATIONS	
	CONC CONT DBL DJ DSP EA FL PT FTG HGR LVL NTS OC PSL PT SC SP	CONCRETE CONTINUOUS DOUBLE DOUBLE JOIST DOUBLE STUD POCKET EACH FLAT PLATE FOOTING HANGER LAMINATED VENEER LUMBER NOT TO SCALE ON CENTER PARALLEL STRAND LUMBER PRESSURE TREATED STUD COLUMN STUD POCKET TRIPLE JOIST
	TYP UNO	TYPICAL UNLESS NOTED OTHERWISE

# The "Anne" Plan # 1992 Lot 7 Purfoy Place

SQUARE	FOOTA	GE 'A'
	HEATED S.F.	UNHEATED S.F.
FIRST FLOOR	1989	0
SECOND FLOOR	0	735
DECK		120
FRONT PORCH		95
GARAGE		438
TOTAL	1989	1388

SQUARE	FOOTA	GE 'B'
	HEATED S.F.	UNHEATED S.F.
FIRST FLOOR	2005	0
SECOND FLOOR	0	735
DECK		120
FRONT PORCH		95
GARAGE		438
TOTAL	2005	1388

SQUARE FOOTAGE 'C'								
	HEATED S.F.	UNHEATED S.F.						
FIRST FLOOR	1989	0						
SECOND FLOOR	0	735						
DECK		120						
FRONT PORCH		111						
GARAGE		438						
TOTAL	1989	1404						

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	Wake Forest, NC 27588
	(O) 919-556-2226
E'C'	(F) 919-556-2228
HEATED S.F.	www.southdesigns.com
0	
735	
120	

Date: 10-8-21  Revision No. Revision Date

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Buildir

**COVER** 

Sheet No.

	REVISION LOG								
Rev	Description	Drawn By	Date	Sheets Affected	Brochure Required	Engineering Required			
1									
2									
3									
4									
5									
7									
8									
9									
10									
11									
12									
13									
	T N/4/02 4 CLIMATE 70NEC 2 5				ļ				

### TABLE N1102.1 CLIMATE ZONES 3-5

CLIMATE ZONES	FENESTRATION U-FACTOR b	SKYLIGHT <sup>b</sup> U-FACTOR	GLAZED FENESTRATION SHGC b,e	CEILING <sup>k</sup> R-VALUE	WOOD FRAMED WALL R-VALUE	MASS WALL R-VALUE	FLOOR R-VALUE	BASEMENT <sup>C</sup> WALL R-VALUE	SLAB d R-VALUE AND DEPTH	CRAWL SPACE C WALL R-VALUE
3	0.35	0.65	0.30	30	13	5/10	19	10/13 <sup>f</sup>	0	5/13
4	0.35	0.60	0.30	38 OR 30 CONT J	15 OR 13+2.5 <sup>h</sup>	5/10	19	10/13	10 <sup>d</sup>	10/13
5	0.35	0.60	NR	38 OR 30 CONT j	19 OR 13+5 OR 15+3e,h	13/17	30 g	10/13	10 <sup>d</sup>	10/13

a. R-VALUES ARE MINIMUMNS. U-FACTORS AND SHGC ARE MAXIMUMS. b. THE FENESTRATION UFACTOR COLUMN EXCLUDED SKYLIGHTS. THE SHGC COLUMN APPLIES TO ALL GLAZED FENESTRATION.

- d. FOR MONOLITHIC STABS, INSULATION SHALL BE APPLIED FROM THE INSPECTION GAP DOWNWARD TO THE BOTTOM OF THE FOOTING OR A MAXIMUM OF 18 INCHES BELOW GRADE, WHICHEVER IS LESS, FOR FLOATING SLABS, INSULATION SHALL EXTEND TO THE BOTTOM OF THE FOUNDATION WALL OR 24 INCHES, WHICHEVER IS LESS, R-5 SHALL BE ADDED TO THE
- e. R.19 FIBERGLASS BATTS COMPRESSED AND INSTALLED IN A NOMINAL 2x6 CAVITY IS DEEMED TO COMPLY. FIBERGLASS BATTS RATED R.19 OR HIGHER COMPRESSED AND INSTALLED IN
  A 2x4 WALL IS NOT DEEMED TO COMPLY.

  [B BASEMENT WALL INSULATION IS NOT REQUIRED IN WARM-HUMID LOCATIONS AS DEFINED BY FIGURE N1101.2 (1 AND 2) AND TABLE N1101.2.

- 1. BASEMENT WALL INSULATION IS NOT REQUIRED IN WARM-PRIMID COLATIONS AS DEPINED BY PROJECT INTO 2, AND TABLE INTO 2.

  Q. OR INSULATION SUFFICIENT TO FILL THE FRAMING CAVITY, R-19 MINIMUM.

  1. "33-5" MEANS R-13 CAVITY INSULATION PLUS R-3 INSULATED SHEATHING. 15-3 MEANS R-15 CAVITY INSULATION PLUS R-3 INSULATED SHEATHING. IF STRUCTURAL SHEATHING COVERS 25

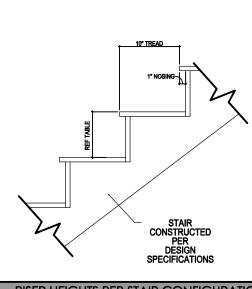
  PERCENT OR LESS OF THE EXTERIOR, INSULATING SHEATHING IS NOT REQUIRED WHERE STRUCTURAL SHEATHING IS USED. IF THE STRUCTURAL SHEATHING COVERS MORE THAN 25 PERCENT

  OF THE EXTERIOR, STRUCTURAL SHEATHING SHALL BE SUPPLEMENTED WITH INSULATED SHEATHING FAT LESS TR.2. (33-25 MEANS R-13 CAVITY INSULATION PLUS R-2.5 SHEATHING. FOR MASS WALLS, THE SECOND R-VALUE APPLIES WHEN MORE THAN HALF THE INSULATION IS ON THE INTERIOR OF THE MASS WALL.

  R-30 SHALL BE DEEMED TO SATISFY THE CEILING INSULATION REQUIREMENT WHEREVER THE FULL HEIGHT OF THE UNCOMPRESSED R-30 INSULATION EXTENDS OVER THE WALL TOP
- PLATE AT THE EAVES. OTHERWISE R-38 INSULATION IS REQUIRED WHERE ADEQUATE CLEARANCE EXISTS OR INSULATION MUST EXTEND TO EITHER THE INSULATION BAFFLE OR WITHIN 1"

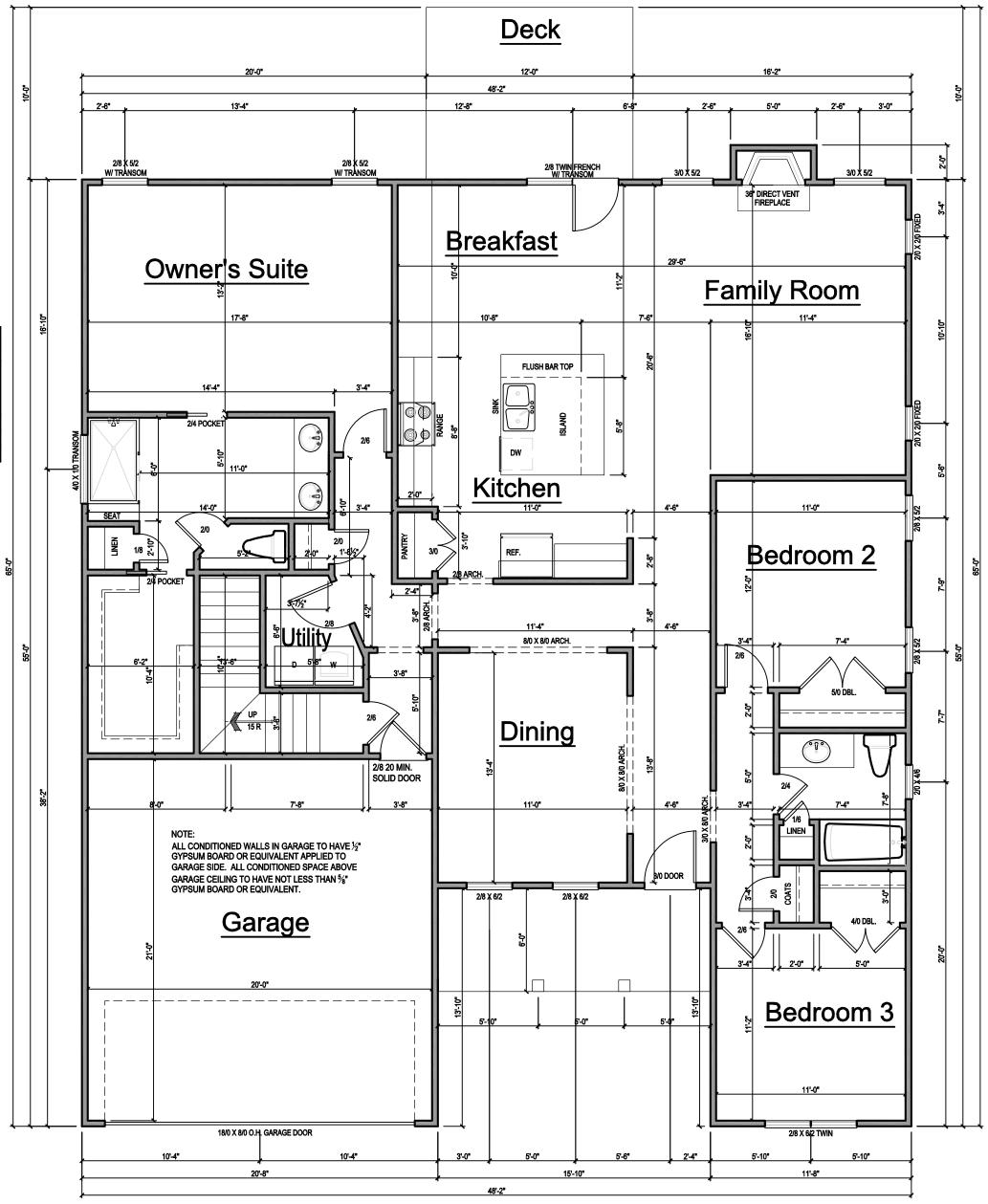
	ATTIC VENT SCHEDULE								
	ELEVATION								
MAIN HOUSE		Ī	SQ FTG	2819	AT / NEAR RIDGE			AT / NEAR EAVE	
VENT TYPE		CHIRELL		SQ. FT. PERCENT OF TOTAL		POT SMALL (SQ. FT. EACH)	RIDGE VENT (SQ. FT. PER LF)	EAVE VENT (SQ. IN. EACH)	CONT. VENT (SQ. IN. PER LF)
	RAN		SUPPLIED	SUPPLIED	0.4236	0.2778	0.125	0.1944	0.0625
RIDGE VENT	RIDGE VENT 3.76 4.70		6.50	39.39	0	0	52.00		
SOFFIT VENTS	5.64	4.70	10.00	60.61	0			160.00	
TOTAL (MIN)	9.40	9.40	16.50	100.00	POT VENTS MAY BE REQUIRED IF THERE IS INSUFFICIENT RIDGE AVAILABLE				

\* SCHEDULE HAS BEEN CALCULATED ASSUMING EAVE VENTILATION AT 50-60% OF TOTAL AND RIDGE AT 40-50% OF TOTAL REQUIRED VENTILATION 1. TABLE VALUE REQUIRED EXCEPT FOR ROOF EDGE WHERE THE SPACE IS LIMITED BY THE PITCH OR THE ROOF, THERE THE INSULATION MUST FILL THE SPACE UP TO THE AIR BAFFLE.



	RISER HEIGHTS PER	STAIR CONFIGUR	ATION
PLATE HEIGHT	10" FLOOR SYSTEM	14" FLOOR SYSTEM	16" FLOOR SYSTEM
8'-1 1/2"	14 RISERS @ 7 11/16"	15 RISERS @ 7 1/2"	15 RISERS @ 7 5/8"
9'-1 1/2"	16 RISERS @ 7 1/2"	16 RISERS @ 7 3/4"	17 RISERS @ 7 7/16"
10'-1 1/2"	17 RISERS @ 7 3/4"	18 RISERS @ 7 9/16"	18 RISERS @ 7 11/16"

TYPICAL STAIR DETIAL



NOTE:
HANDRAILS SHALL BE PROVIDE ON AT
LEAST ONE SIDE OF STAIR TREADS WITH
4, OR MORE RISERS. VERTICAL HT. OF
HANDRAILS SHALL BE NOT LESS THAN
34" AND NO MORE THAN 38" PER NC 2018
RESIDENTIAL CODE SEC. R311.7.8

GUARDS ON ALL HANDRAILS SHALL BE PLACED SO THAT A SPHERE OF 4" CANNOT PASS THROUGH PER NC 2018 RESIDENTIAL CODE SEC. R312.1

#### **GENERAL NOTES**

WALLS:
ALL WALLS ARE DRAWN 4"
THICK U.N.O.
ANGLED WALL ARE DRAWN
@45° U.N.O.

SMOKE DETECTORS:
LOCATION AND NUMBER OF
DETECTORS SHALL CONFORM
TO NEC.

TO NEC.

EGRESS:

ALL BEDROOMS MUST HAVE
AT LEAST ONE WINDOW WHICH
CONFORMS TO R-310 OF THE
N.C. BLDG. CODE. IT IS THE
CONTRACTOR'S RESPONSIBILITY
TO VERIEV CHOSEN WINDOWS TO VERIFY CHOSEN WINDOWS MEET EGRESS REQUIREMENTS AS MANUFATURERS VARY.

ATTIC ACCESS:
MIN. ATTIC ACCESS SHALL BE
PROVIDED BY BUILDER AND
LOCATED ON SITE.

### WALL/CEILING HGT.

WALL AND CEILING HEIGHT NOTES ARE BASED ON NOMINAL NOTES ARE BASED ON NOMINAL WALL SIZE.
KNEE WALL HEIGHT LABELS
FOR WALLS UNDER RAFTERS
ASSUME AN EXTRA 2" FOR FURRING (IN HEATED SPACES)
FOR INSULATION. THE WALL
HEIGHT REFERS TO THE HGT.

FROM THE FLOOR DECKING TO THE BOTTOM OF THE FURRING.

SOUTH

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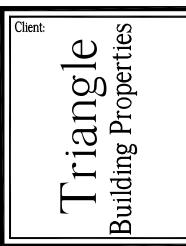
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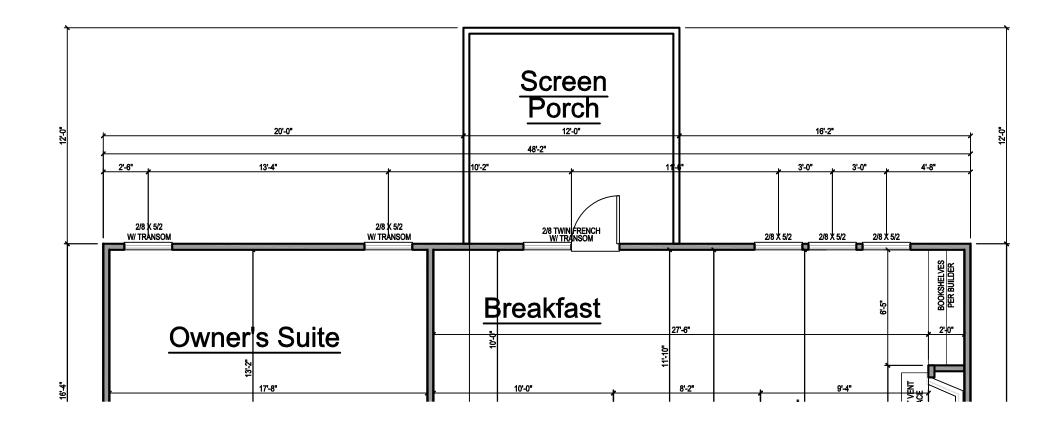
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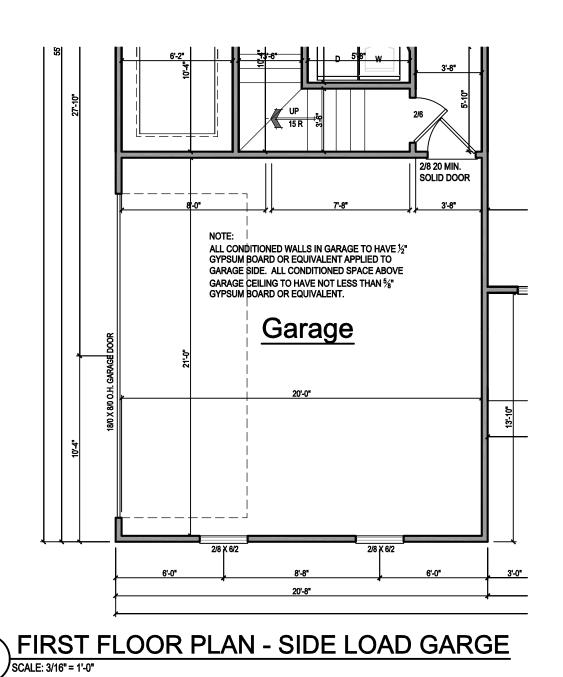
FIRST FLOOR PLAN

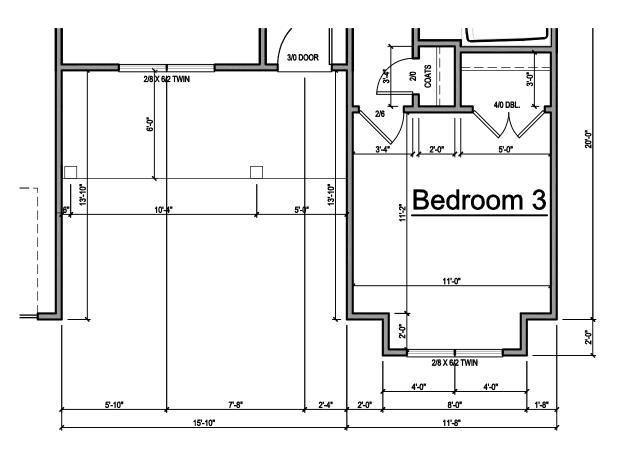
"Anne" Purfoy Place Sheet No.

FIRST FLOOR PLAN 'A'
SCALE: 3/16" = 1'-0"

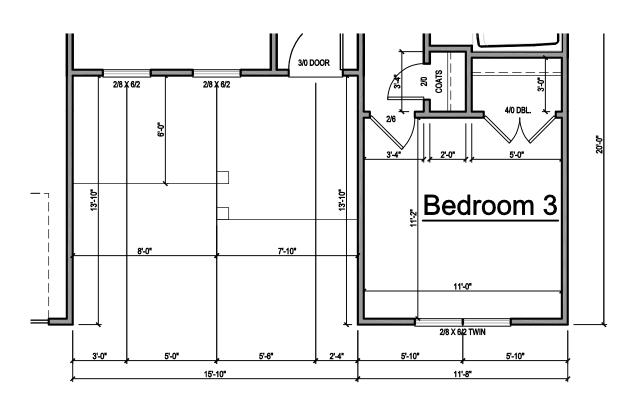


## SCREEN PORCH OPTION SCALE: 3/16"1"-0"





## PARTIAL FIRST FLOOR PLAN 'B' SCALE: 3/16" = 1'-0"



PARTIAL FIRST FLOOR PLAN 'C'

SCALE: 3/16" = 1'-0"

SOUTH DESIGNS

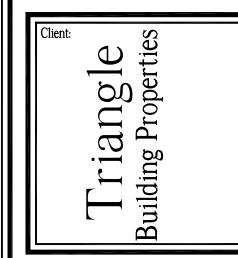
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FIRST FLOOR
PLAN

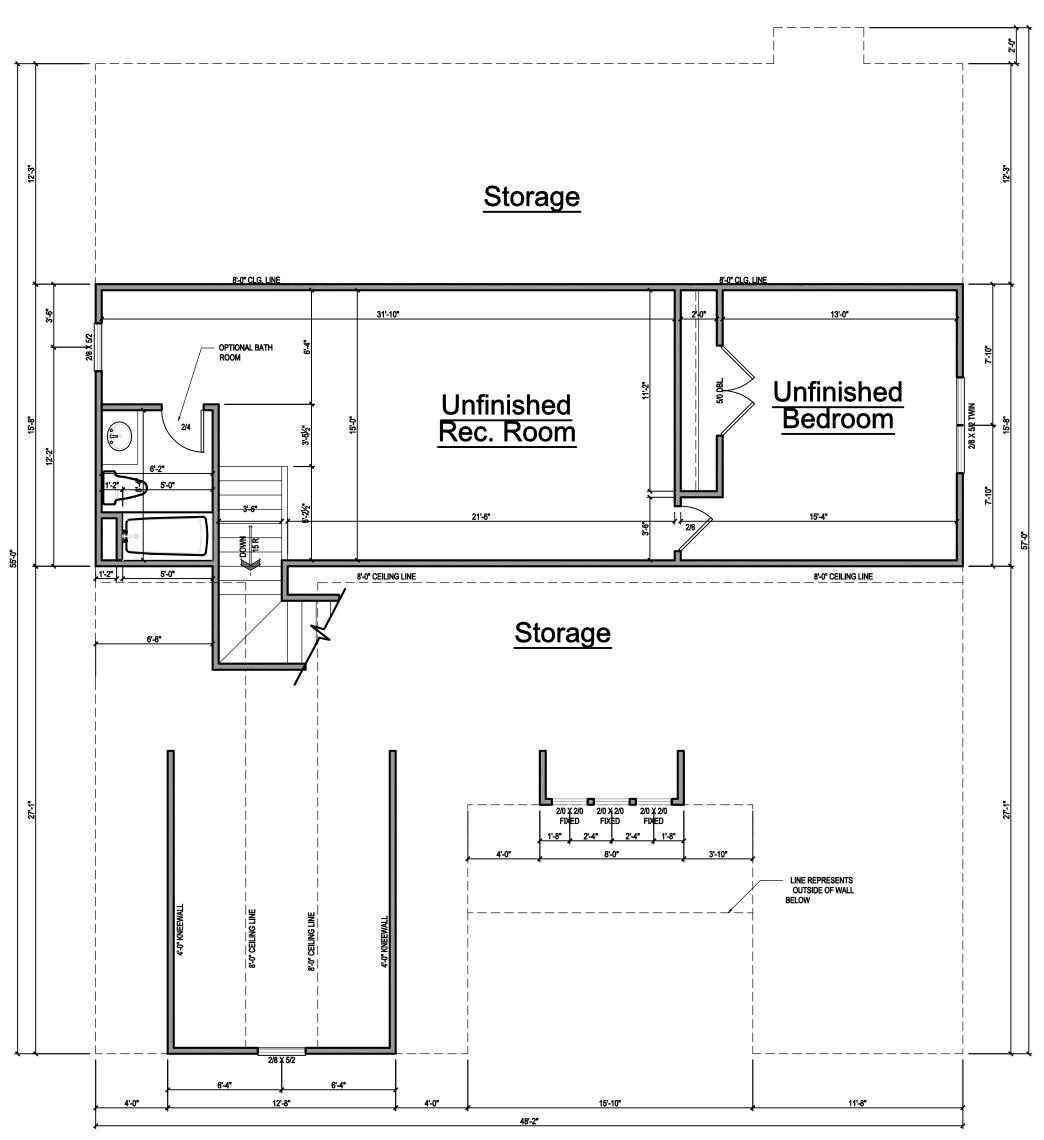
Plan No.

"Anne"

Purfoy Place

Sheet No.

Of



**GENERAL NOTES** 

WALLS:
ALL WALLS ARE DRAWN 4"
THICK U.N.O.
ANGLED WALL ARE DRAWN
@45° U.N.O.

SMOKE DETECTORS:
LOCATION AND NUMBER OF
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MEET EGRESS REQUIREMENTS
AS MANUFATURERS VARY.

AS MANUFATURERS VARY.

ATTIC ACCESS:

MIN. ATTIC ACCESS SHALL BE PROVIDED BY BUILDER AND LOCATED ON SITE.

WALL/CEILING HEIGHT.

WALL AND CEILING HEIGHT NOTES ARE BASED ON NOMINAL WALL SIZE.

KNEE WALL HEIGHT LABELS FOR WALLS UNDER RAFTERS ASSUME AN EXTRA 2" FOR FURRING (IN HEATED SPACES) FOR INSULATION. THE WALL HEIGHT REFERS TO THE HGT. FROM THE FLOOR DECKING TO THE BOTTOM OF THE FURRING.



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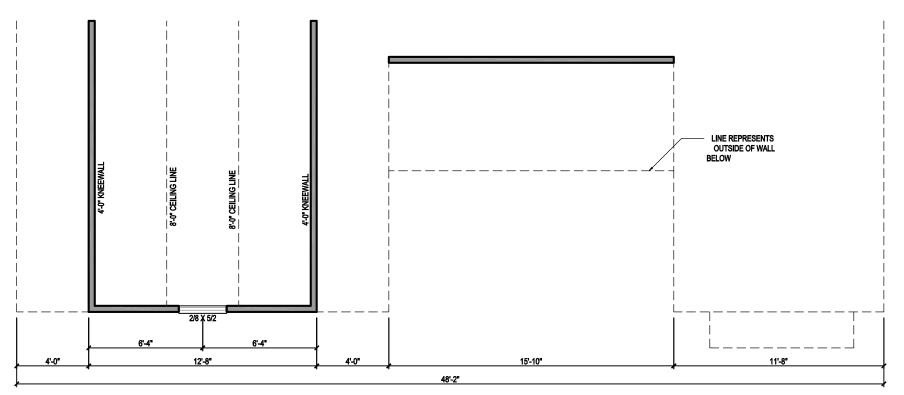
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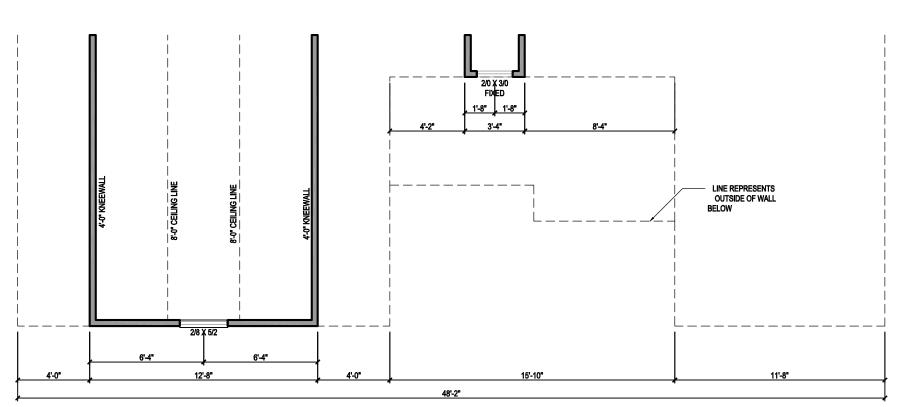
SECOND FLOOR PLAN

"Anne" Purfoy Place Sheet No.

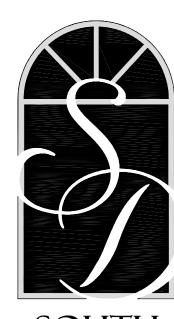
SECOND FLOOR PLAN 'A'
SCALE: 3/16" = 1'-0"



PARTIAL SECOND FLOOR PLAN 'B'
SCALE: 3/16" = 1'-0"



PARTIAL SECOND FLOOR PLAN 'C'
SCALE: 3/16" = 1'-0"



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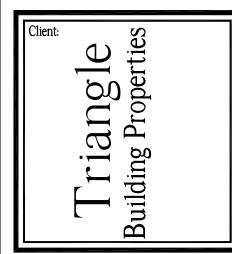
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SECOND FLOOR
PLAN

"Anne"
Plan No.
"Anne"
Purfoy Place
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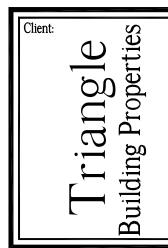
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Revision No. Revision Date	Revision No. Revision Date	Date: 11-3-2	2020	
		Revision No.	Revision Date	

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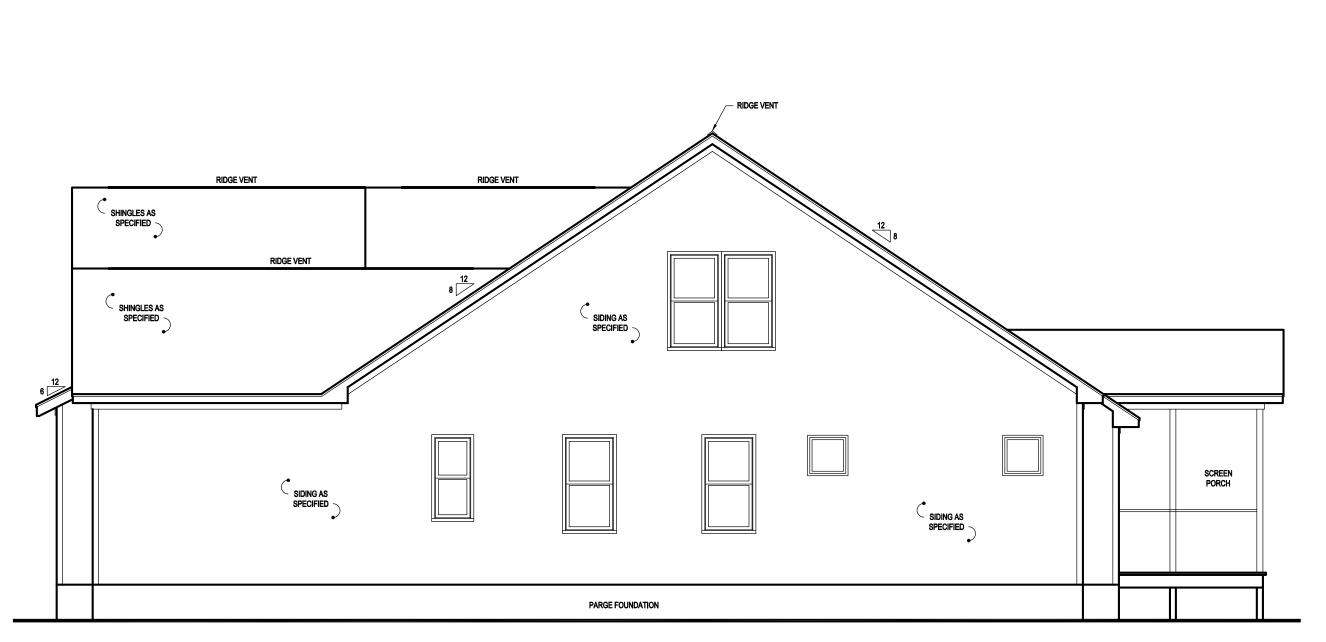
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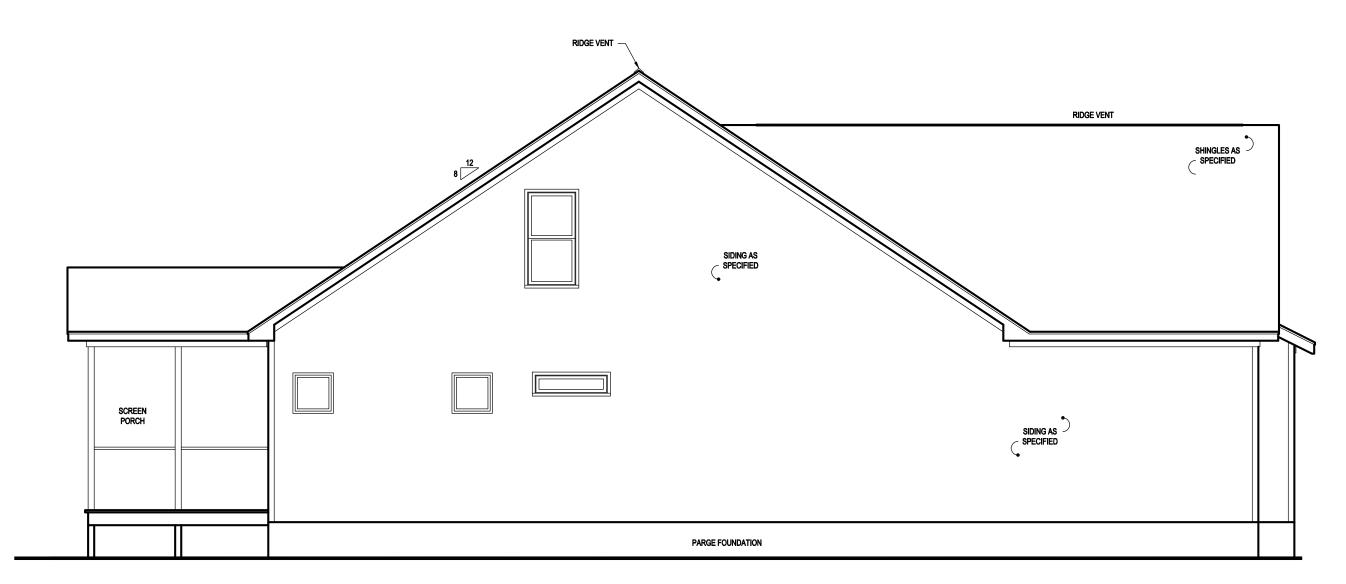


FRONT ELEVATION
"B"

"Anne"
Plan No.
"Anne"
Purfoy Place
Sheet No. Of



## RIGHT SIDE ELEVATION 'B' SCALE: 3/16"= 1'-0"



2 LEFT SIDE ELEVATION 'B'
SCALE:3/16'= 1'-0"

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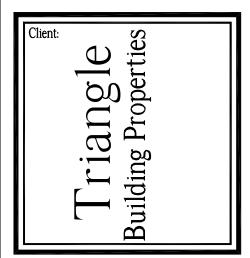
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### Designer Signature

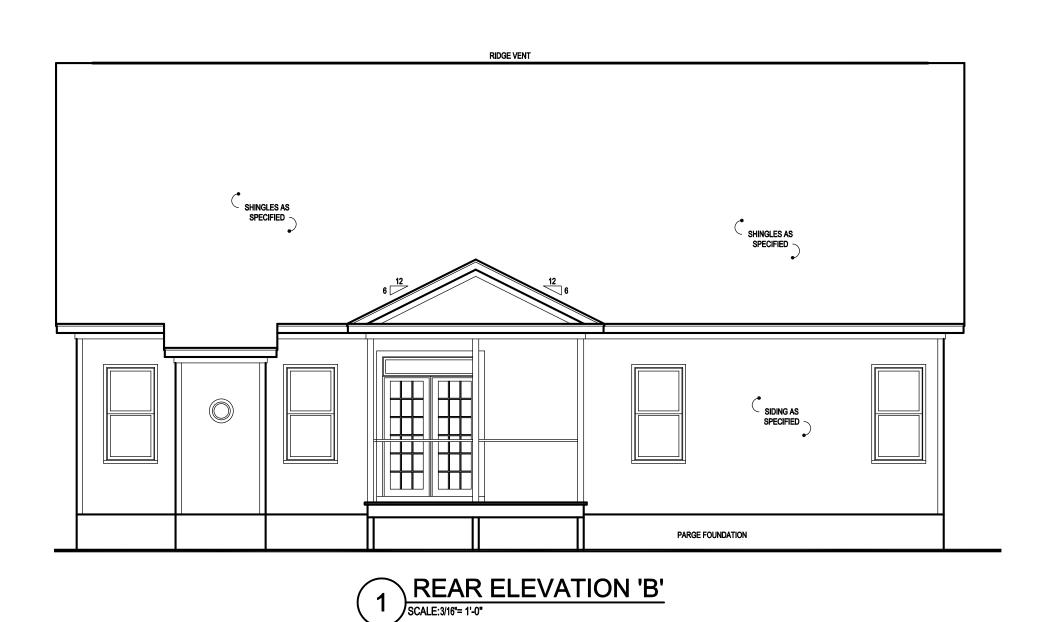
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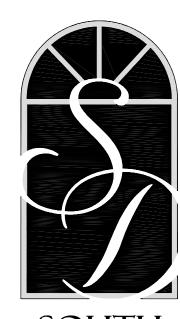
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SIDE ELEVATIONS "B"

"Anne"
Plan No.
"Anne"
Purfoy Place
Sheet No. Of





### SOUTH DESIGNS

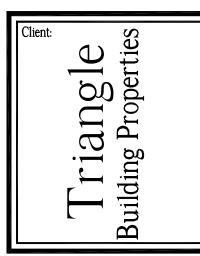
P.O. Box 688 Wake Forest, NC 27588 (O) 919-556-2226 (F) 919-556-2228 www.southdesigns.com

	Drawn By: RW Checked By: RW Date: 11-3-2	/B
	Revision No.	Revision Date
Ш		

### Designer Signature

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Title:

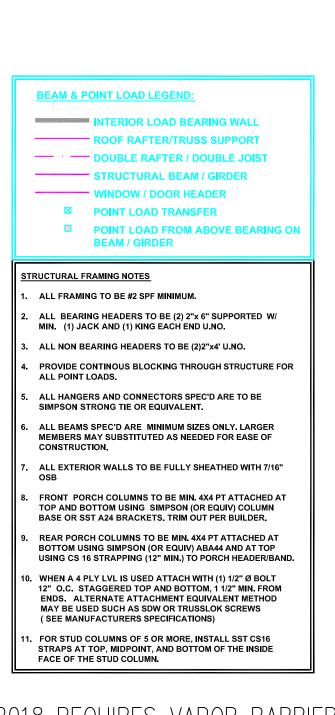
REAR
ELEVATION
"B"

Plan No.

"Anne"

Purfoy Place

Sheet No. Of



IRC 2015 NCBC 2018 REQUIRES VAPOR BARRIER OVER 100 PERCENT OF CRAWL AREA

> ALL FLOOR JOISTS 11 7/8 BCI 5000 @ 19.2 or 2 x 10 @ 16 # 2 SPF or Better

ORIENTED Left To Right DENOTES 12"x16" -or- 16"x16"

ON 30"x30"x10" CONC. FTR. CMU PIER WITH 8" SOLID CAP CONCRETE PIER SIZES

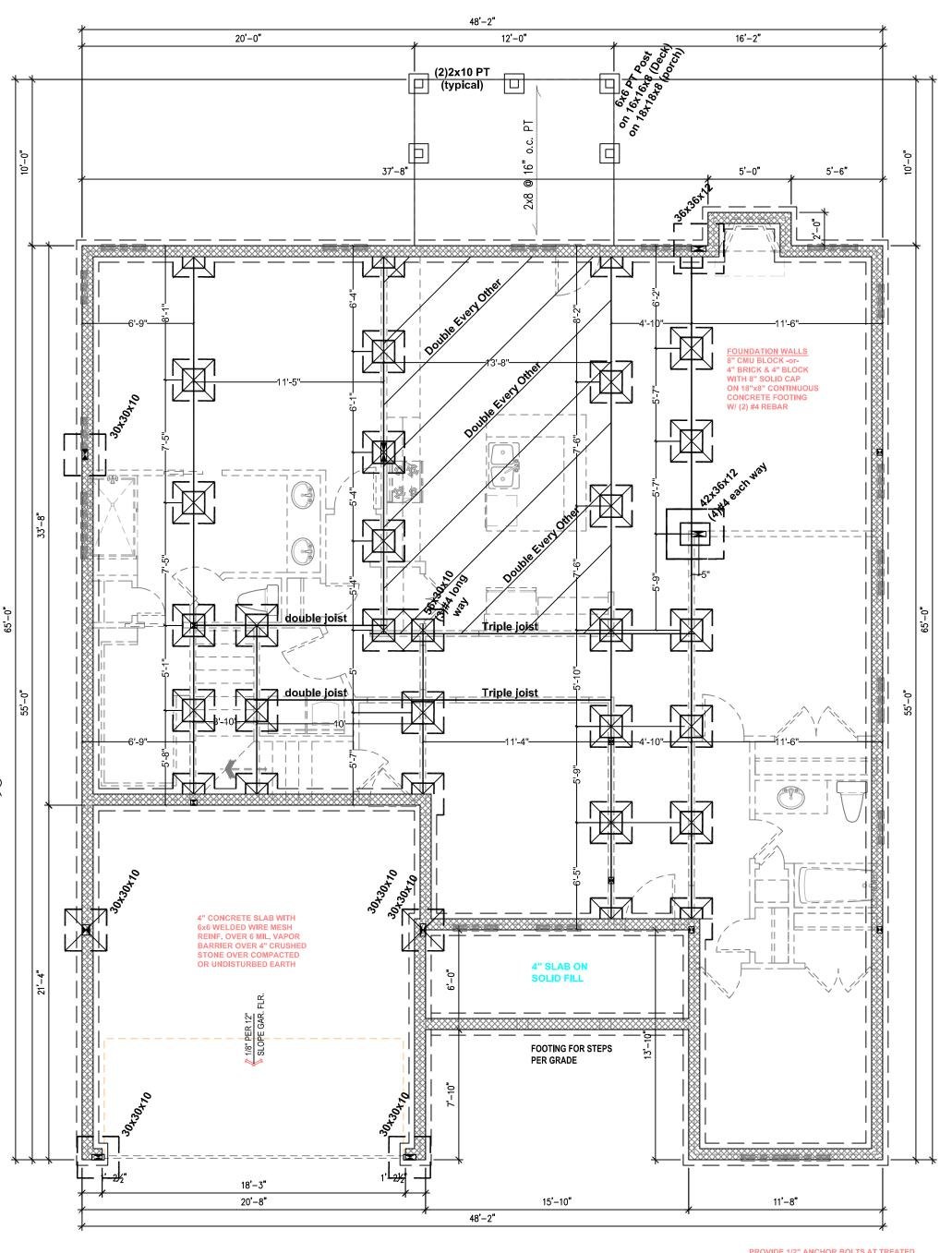
Size Hollow Masonry Solid Masonry
12"x16" Up to 48" High Up to 9'-0" High
16"x16" Up to 64" High Up to 12'-0" High Up to 12'-0" High FOUNDATION WALLS ALL FOUNDATION WALLS 8" BLOCK PARGED -or- 4" BRICK w/ 4" BLOCK w/ 8" SOLID CAP ON 18"x8" CONTINUOUS CONCRETE FOOTER

20" x 10" in areas of brick veneer

**GIRDERS** 

(2) 9 1/4 LVL or (4) 2 x 10 # 2 SYP or Better

Anchor bolts required <u>ALL</u> foundation walls provide  $1/2" \times 10"$  with 7 inch embedment 6' on center and 12 inches from ends / corners



### **CRAWL FOUNDATION PLAN 'A'**

SCALE: 3/16" = 1'-0"

PROVIDE 1/2" ANCHOR BOLTS AT TREATED WOOD SILL PLATES WITH 7" EMBEDMENT AT MAXIMUM 6'-0" ON CENTER AND WITHIN 12"
FROM THE ENDS OF EACH PLATE SECTION

#### STRUCTURAL FRAMING NOTES

- REFER TO DETAILS SHEET <u>DT1</u> FOR STRUCTURAL NOTES RELATING TO MINIMUM DESIGN LOADS, MATERIAL SPECS, CONSTRUCTION/FDN NOTES, AND ABBREVIATIONS KEY AND
- ALL FRAMING TO BE #2 SPF MINIMUM
- ALL BEARING HEADERS TO BE (2) 2"x 6" SUPPORTED W/ MIN. (1) JACK AND (1) KING EACH END U.NO.
- ☑ INDICATES POINT LOAD PER CONSTRUCTION NOTE #6 ON
- ALL HANGERS AND CONNECTORS SPEC'D ARE TO BE SIMPSON STRONG TIE OR EQUIVALENT.
- ALL BEAMS SPEC'D ARE MINIMUM SIZES ONLY. LARGER MEMBERS MAY SUBSTITUTED AS NEEDED FOR EASE OF

CRAWL SPACE VENTILATION 'A': NOTE: WHERE AN APPROVED VAPOR BARRIER IS INSTALLED OVER GROUND SURFACE, THE REQUIRED VENTILATION

### **FOUNDATION**

MINIMUM ALLOWABLE SOIL BEARING CAPACITY IS ASSUMED TO BE 2000 PSF. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY SOIL BEARING CAPACITY IF UNSATISFACTORY CONDITIONS EXIST.

MAY BE REDUCED BY 50%

- 2. CONCRETE AND MASONRY FOUNDATION WALLS TO BE SELECTED AND CONSTRUCTED IN ACCORDANCE WITH THE PROVISIONS OF <u>SECTION R404</u> OR IN ACCORDANCE WITH ACI 318, NCMA TR68-A, OR ACI 530/ASCE 5/TMS
- MASONRY AND POURED CONCRETE WALL REINFORCEMENT TO BE IN ACCORDANCE WITH TABLES R404.1.1 (1 THROUGH 4) OF THE NORTH CAROLINA RESIDENTIAL CODE.
  - A. PER R404.1.3, TABLES ASSUME THAT WALLS HAVE
  - PERMANENT LATERAL SUPPORT AT THE TOP AND BOTTOM. B. WALL REINFORCING SHALL BE PLACED ACCORDING TO FOOTNOTE (c) OF THE TABLES (REINFORCING IS NOT
  - CENTERED IN WALL). C. FOUNDATION DRAINS ARE ASSUMED AT ALL WALLS PER
- WOOD SILL PLATES TO BE ANCHORED TO THE FOUNDATION WITH 1/2" ANCHOR BOLTS WITH MINIMUM 7" EMBEDMENT SPACED A MAXIMUM OF 6'-0" o.c.(3'-0" FOR BASEMENT WALLS) AND WITHIN 12" FROM THE ENDS OF EACH PLATE SECTION, INSTALL MIN. (2) ANCHOR BOLTS PER SECTION.
- THE UNSUPPORTED HEIGHT OF SOLID MASONRY PIERS SHALL NOT EXCEED TEN TIMES THEIR LEAST DIMENSION. UNFILLED HOLLOW PIERS MAY BE USED IF THE UNSUPPORTED HEIGHT IS NOT MORE THAN FOUR TIMES THEIR
- 6. CENTERS OF PIERS TO BEAR IN THE MIDDLE THIRD OF THE FOOTINGS, AND
- ALL FOOTINGS TO HAVE MINIMUM 2" PROJECTION ON EACH FOUNDATION WALLS.

Structural Design By: John Alexander McRae, PE, Inc (NC C-2298) 218 Coley Farm Road Fuquay-Varina North Carolina 27526 jampe@nc.rr.com (919) 210-5749 P O Box 1466 Apex, NC 27502 Report deficiencies immediately 2101-17

Design to IRC 2015 NCBC 2018



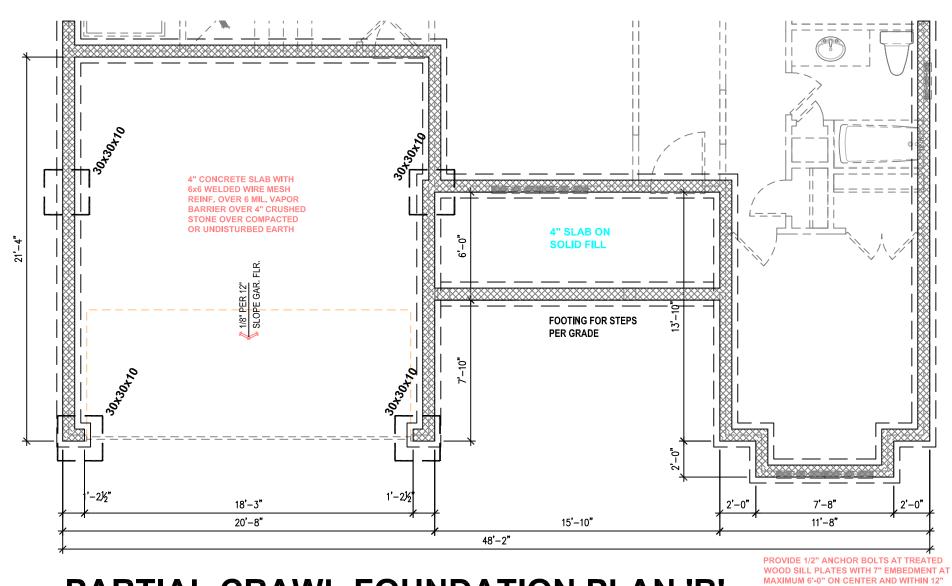
#### STRUCTURAL FRAMING NOTES

- . ALL FRAMING TO BE #2 SPF MINIMUM.
- ALL BEARING HEADERS TO BE (2) 2"x 6" SUPPORTED W/ MIN. (1) JACK AND (1) KING EACH END U.NO.
- . ALL NON BEARING HEADERS TO BE (2)2"x4" U.NO.
- PROVIDE CONTINOUS BLOCKING THROUGH STRUCTURE FOR
- ALL HANGERS AND CONNECTORS SPEC'D ARE TO BE SIMPSON STRONG TIE OR EQUIVALENT.
- ALL BEAMS SPEC'D ARE MINIMUM SIZES ONLY, LARGER MEMBERS MAY SUBSTITUTED AS NEEDED FOR EASE OF
- ALL EXTERIOR WALLS TO BE FULLY SHEATHED WITH 7/16"
- FRONT PORCH COLUMNS TO BE MIN. 4X4 PT ATTACHED AT TOP AND BOTTOM USING SIMPSON (OR EQUIV) COLUMN BASE OR SST A24 BRACKETS. TRIM OUT PER BUILDER.
- REAR PORCH COLUMNS TO BE MIN. 4X4 PT ATTACHED AT BOTTOM USING SIMPSON (OR EQUIV) ABA44 AND AT TOP USING CS 16 STRAPPING (12" MIN.) TO PORCH HEADER/BAND.
- 10. WHEN A 4 PLY LVL IS USED ATTACH WITH (1) 1/2" Ø BOLT 12" O.C. STAGGERED TOP AND BOTTOM, 1 1/2" MIN. FROM ENDS. ALTERNATE ATTACHMENT EQUIVALENT METHOD MAY BE USED SUCH AS SDW OR TRUSSLOK SCREWS ( SEE MANUFACTURERS SPECIFICATIONS)
- FOR STUD COLUMNS OF 5 OR MORE. INSTALL SST CS16 STRAPS AT TOP, MIDPOINT, AND BOTTOM OF THE INSIDE FACE OF THE STUD COLUMN.

### CRAWL SPACE VENTILATION 'C':

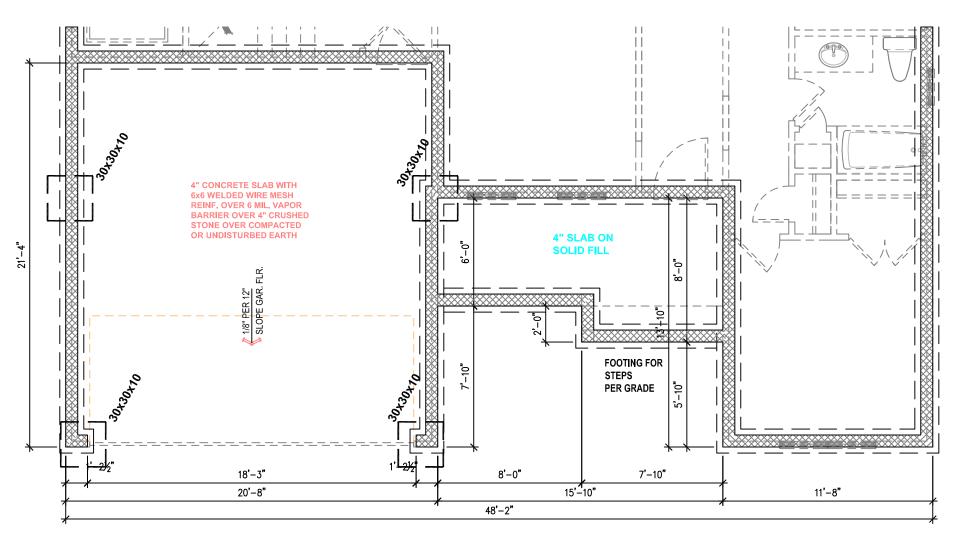
NOTE: WHERE AN APPROVED VAPOR BARRIER IS INSTALLED

OVER GROUND SURFACE, THE REQUIRED VENTILATION MAY BE REDUCED BY 50%



### PARTIAL CRAWL FOUNDATION PLAN 'B'

SCALE: 3/16" = 1'-0"



### PARTIAL CRAWL FOUNDATION PLAN 'C'

SCALE: 3/16" = 1'-0"

PROVIDE 1/2" ANCHOR BOLTS AT TREATED WOOD SILL PLATES WITH 7" EMBEDMENT AT MAXIMUM 6"-0" ON CENTER AND WITHIN 12" FROM THE ENDS OF EACH PLATE SECTION

#### CRAWL SPACE VENTILATION 'B':

2002 SQ. FT. / 150 = 13.35 SQ. FT. REQ. 13.35 SQ. FT. / .47 PER VENT = 29 VENTS REQ.

NOTE: WHERE AN APPROVED VAPOR BARRIER IS INSTALLED OVER GROUND SURFACE, THE REQUIRED VENTILATION MAY BE REDUCED BY 50%

#### STRUCTURAL FRAMING NOTES

- REFER TO DETAILS SHEET DT1 FOR STRUCTURAL NOTES RELATING TO MINIMUM DESIGN LOADS, MATERIAL SPECS, CONSTRUCTION/FDN NOTES, AND ABBREVIATIONS KEY AND OTHER MISC. PLAN INFORMATION.
- ALL FRAMING TO BE #2 SPF MINIMUM
- ALL BEARING HEADERS TO BE (2) 2"x 6" SUPPORTED W/ MIN. (1) JACK AND (1) KING EACH END U.NO.
- . ☑ INDICATES POINT LOAD PER CONSTRUCTION NOTE #6 ON
- ALL HANGERS AND CONNECTORS SPEC'D ARE TO BE SIMPSON STRONG TIE OR FOUIVALENT.
- ALL BEAMS SPEC'D ARE MINIMUM SIZES ONLY. LARGER

### **FOUNDATION**

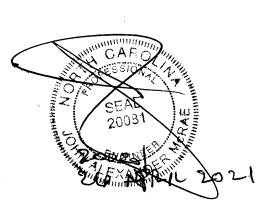
- MINIMUM ALLOWABLE SOIL BEARING CAPACITY IS ASSUMED TO BE 2000 PSF. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY SOIL BEARING CAPACITY IF UNSATISFACTORY CONDITIONS EXIST.
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  OR IN ACCORDANCE WITH ACI 318, NCMA TR68-A, OR ACI 530/ASCE 5/TMS
- 3. MASONRY AND POURED CONCRETE WALL REINFORCEMENT TO BE IN ACCORDANCE WITH <u>TABLES R404.1.1 (1 THROUGH 4)</u> OF THE NORTH CAROLINA RESIDENTIAL CODE.
  - A. PER R404.1.3, TABLES ASSUME THAT WALLS HAVE
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  - C. FOUNDATION DRAINS ARE ASSUMED AT ALL WALLS PER

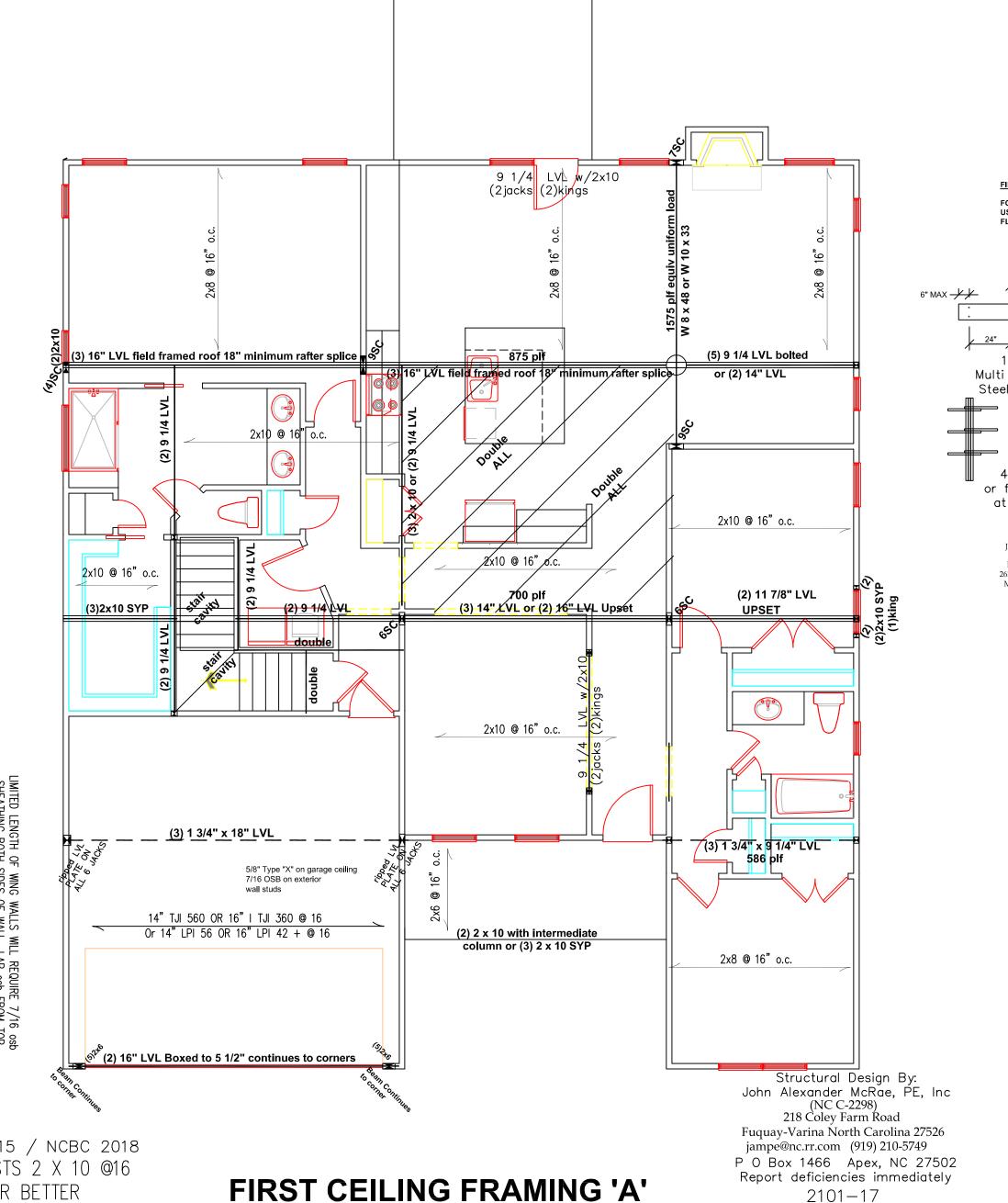
CENTERED IN WALL).

- 4. WOOD SILL PLATES TO BE ANCHORED TO THE FOUNDATION WITH 1/2" ANCHOR BOLTS WITH MINIMUM 7" EMBEDMENT SPACED A MAXIMUM OF 6'-0" o.c.(3'-0" FOR BASEMENT WALLS) AND WITHIN 12" FROM THE ENDS OF EACH PLATE SECTION. INSTALL MIN. (2) ANCHOR BOLTS PER SECTION.
- 5. THE UNSUPPORTED HEIGHT OF SOLID MASONRY PIERS SHALL NOT EXCEED TEN TIMES THEIR LEAST DIMENSION. UNFILLED HOLLOW PIERS MAY BE USED IF THE UNSUPPORTED HEIGHT IS NOT MORE THAN FOUR TIMES THEIR
- 6. CENTERS OF PIERS TO BEAR IN THE MIDDLE THIRD OF THE FOOTINGS, AND
- 7. ALL FOOTINGS TO HAVE MINIMUM 2" PROJECTION ON EACH SIDE OF FOUNDATION WALLS.

Structural Design By: John Alexander McRae, PE, Inc (NC C-2298) 218 Coley Farm Road Fuquay-Varina North Carolina 27526 jampe@nc.rr.com (919) 210-5749 P O Box 1466 Apex, NC 27502 Report deficiencies immediately 2101-17

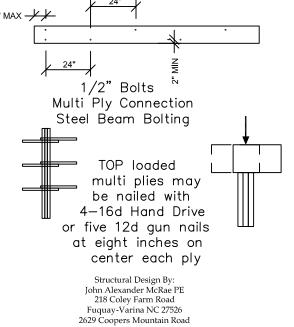
Design to IRC 2015 NCBC 2018





#### FINISHED ATTIC NOTE (RIGHT SIDE):

FOR FINISHED ATTIC OVER RIGHT SIDE USE STEEL BEAM OPTION AND CONVERT FLOOR SYSTEM TO I-JOISTS PER MFTR



Martinsville Virginia 24112 jampe@nc.rr.com

Design to IRC 2015 NCBC 2018

ALL EXTERIOR AND BEARING HEADER (2) 2"x10" u.n.o.

ALL LVL BEAMS/HEADERS 3 STUD COLUMNS EACH END u.n.o.

ALL FRAMING #2 SPF OR BETTER u.n.o.

### STRUCTURAL FRAMING NOTES

- REFER TO DETAILS SHEET  $\underline{\text{DT1}}$  FOR STRUCTURAL NOTES RELATING TO MINIMUM DESIGN LOADS, MATERIAL SPECS, CONSTRUCTION/FDN NOTES, AND ABBREVIATIONS KEY AND OTHER MISC. PLAN INFORMATION.
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Design To IRC 2015 / NCBC 2018 ALL FLOOR JOISTS 2 X 10 @16 #2 SPF OR BETTER ALL CEILING JOIST 2 X 8 @ 16 Up To 15' 2 X 6 @ 16 Up To 11'

### **Main Roof Structures Attic Truss by Manufacturer Optional Field Framing Also Shown**

All stories to be sheathed with 7/16" OSB nailed @ six inches on center edges and ends with additional nailing of "braced" panels as noted below: ALL EXTERIOR BEARING AND NON LOAD BEARING WALLS Four Foot Panel at Corners

and Maximum 12' o.c. Wall Bracing 7/16" OSB Lap OSB from top plate down full eight foot sheet Width 48" u.n.o. prior to opening cut-out. Nail with 8d nails at THREE inches on center edges/ends

six inches in field. Purlins at panel

Design To IRC 2015 / NCBC 2018 ALL FLOOR JOISTS 2 X 10 @16 #2 SPF OR BETTER ALL CEILING JOIST 2 X 8 @ 16 Up To 15' 2 X 6 @ 16 Up To 11'

(2) 5/8" HDG rods extend from footing through sill plate

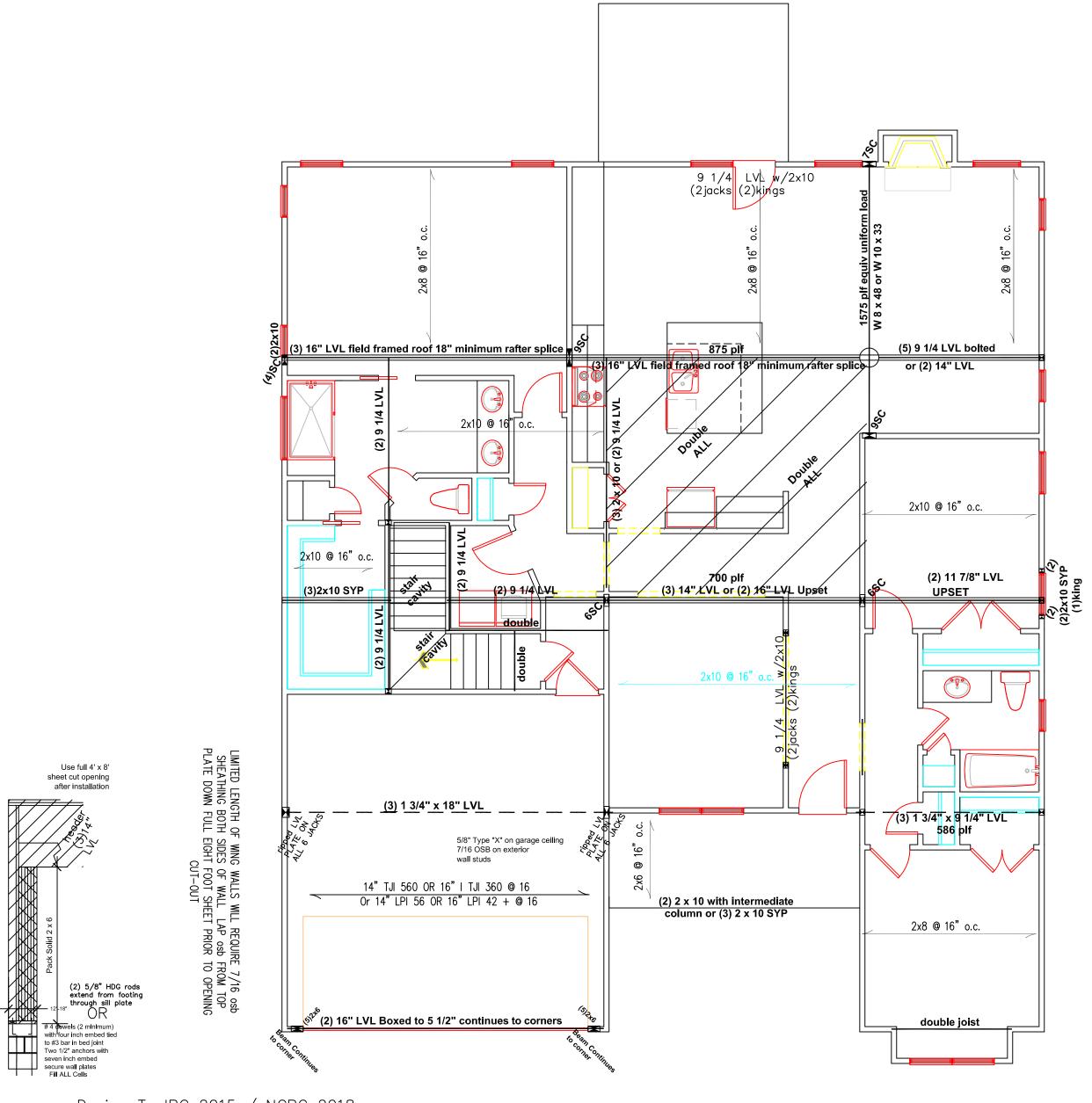
4 (10 wels (2 minimum)

Use full 4' x 8'

sheet cut opening after installation

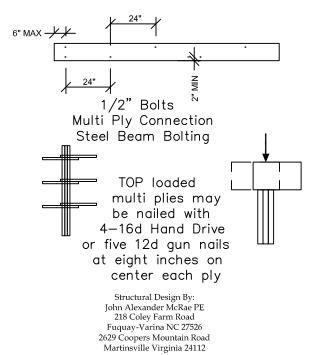
### FIRST CEILING FRAMING 'A'

SCALE: 3/16" = 1'-0"



FINISHED ATTIC NOTE (RIGHT SIDE):

FOR FINISHED ATTIC OVER RIGHT SIDE USE STEEL BEAM OPTION AND CONVERT FLOOR SYSTEM TO I-JOISTS PER MFTR



jampe@nc.rr.com

### STRUCTURAL FRAMING NOTES

- REFER TO DETAILS SHEET <u>DT1</u> FOR STRUCTURAL NOTES RELATING TO MINIMUM DESIGN LOADS, MATERIAL SPECS, CONSTRUCTION/FDN NOTES, AND ABBREVIATIONS KEY AND OTHER MISC. PLAN INFORMATION.
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jampe@nc.rr.com (919) 210-5749 P O Box 1466 Apex, NC 27502 Report deficiencies immediately

2101-17 Design to IRC 2015 NCBC 2018

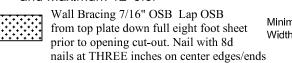
ALL FLOOR JOISTS 2 X 10 @16 #2 SPF OR BETTER

ALL CEILING JOIST 2 X 8 @ 16 Up To 15' 2 X 6 @ 16 Up To 11'

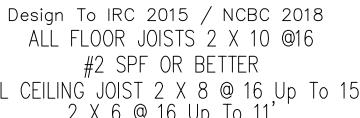
### **Main Roof Structures Attic Truss by Manufacturer Optional Field Framing Also Shown**

All stories to be sheathed with 7/16" OSB nailed @ six inches on center edges and ends with additional nailing of "braced" panels as noted below:

ALL EXTERIOR BEARING AND NON LOAD BEARING WALLS Four Foot Panel at Corners and Maximum 12' o.c.

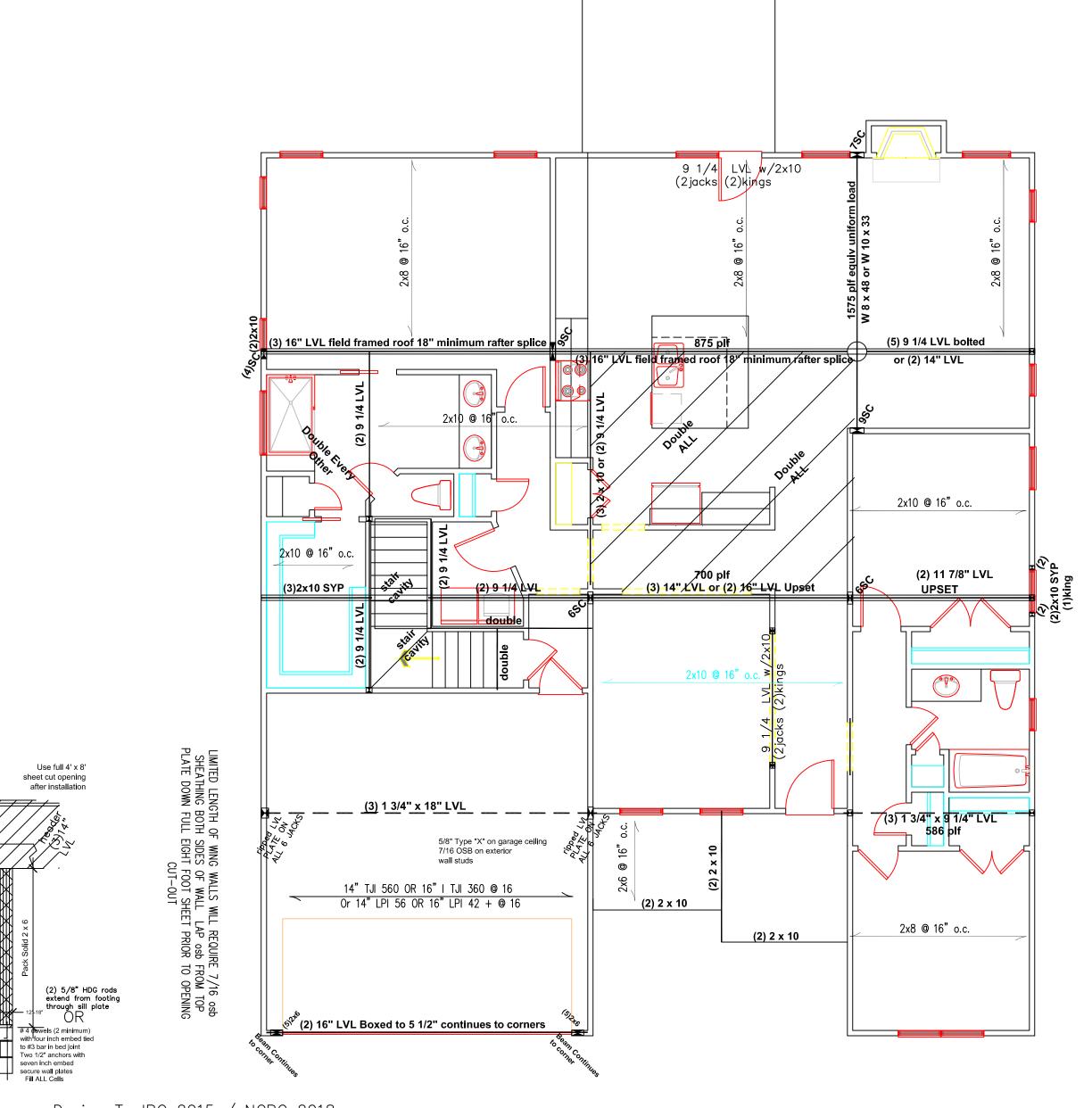


six inches in field. Purlins at panel



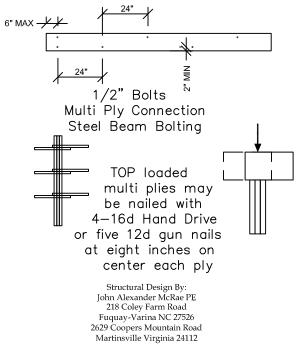
### FIRST CEILING FRAMING 'B'

ALL CEILING JOIST 2 X 8 @ 16 Up To 15' 2 X 6 @ 16 Up To 11' SCALE: 3/16" = 1'-0" ALL EXTERIOR AND BEARING HEADER (2) 2"x10" u.n.o. ALL LVL BEAMS/HEADERS 3 STUD COLUMNS EACH END u.n.o. ALL FRAMING #2 SPF OR BETTER u.n.o.



### FINISHED ATTIC NOTE (RIGHT SIDE):

FOR FINISHED ATTIC OVER RIGHT SIDE USE STEEL BEAM OPTION AND CONVERT FLOOR SYSTEM TO I-JOISTS PER MFTR



jampe@nc.rr.com

### STRUCTURAL FRAMING NOTES

- REFER TO DETAILS SHEET <u>DT1</u> FOR STRUCTURAL NOTES RELATING TO MINIMUM DESIGN LOADS, MATERIAL SPECS, CONSTRUCTION/FDN NOTES, AND ABBREVIATIONS KEY AND OTHER MISC. PLAN INFORMATION.
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- ALL BEARING HEADERS TO BE (2) 2"x 6" SUPPORTED W/
- . ☑ INDICATES POINT LOAD PER CONSTRUCTION NOTE #6 ON
- . ALL HANGERS AND CONNECTORS SPEC'D ARE TO BE SIMPSON STRONG TIE OR EQUIVALENT.
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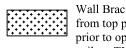
Design to IRC 2015 NCBC 2018 ALL FLOOR JOISTS 2 X 10 @16

#2 SPF OR BETTER ALL CEILING JOIST 2 X 8 @ 16 Up To 15' 2 X 6 @ 16 Up To 11'

### **Main Roof Structures Attic Truss by Manufacturer Optional Field Framing Also Shown**

All stories to be sheathed with 7/16" OSB nailed @ six inches on center edges and ends with additional nailing of "braced" panels as noted below:

Four Foot Panel at Corners and Maximum 12' o.c.



ALL EXTERIOR BEARING AND NON LOAD BEARING WALLS

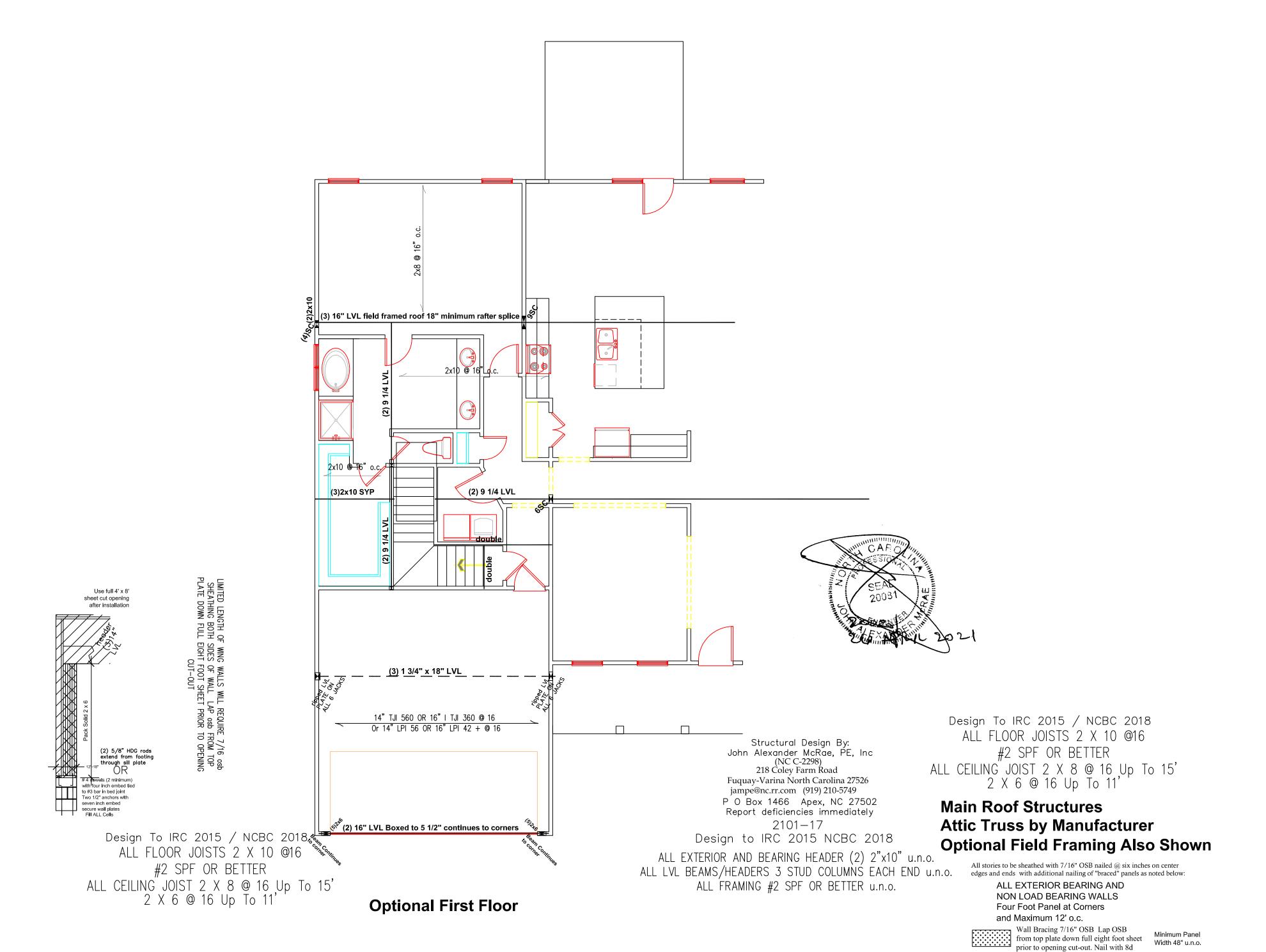


ALL EXTERIOR AND BEARING HEADER (2) 2"x10" u.n.o. ALL LVL BEAMS/HEADERS 3 STUD COLUMNS EACH END u.n.o. ALL FRAMING #2 SPF OR BETTER u.n.o.

Design To IRC 2015 / NCBC 2018 ALL FLOOR JOISTS 2 X 10 @16 #2 SPF OR BETTER ALL CEILING JOIST 2 X 8 @ 16 Up To 15' 2 X 6 @ 16 Up To 11'

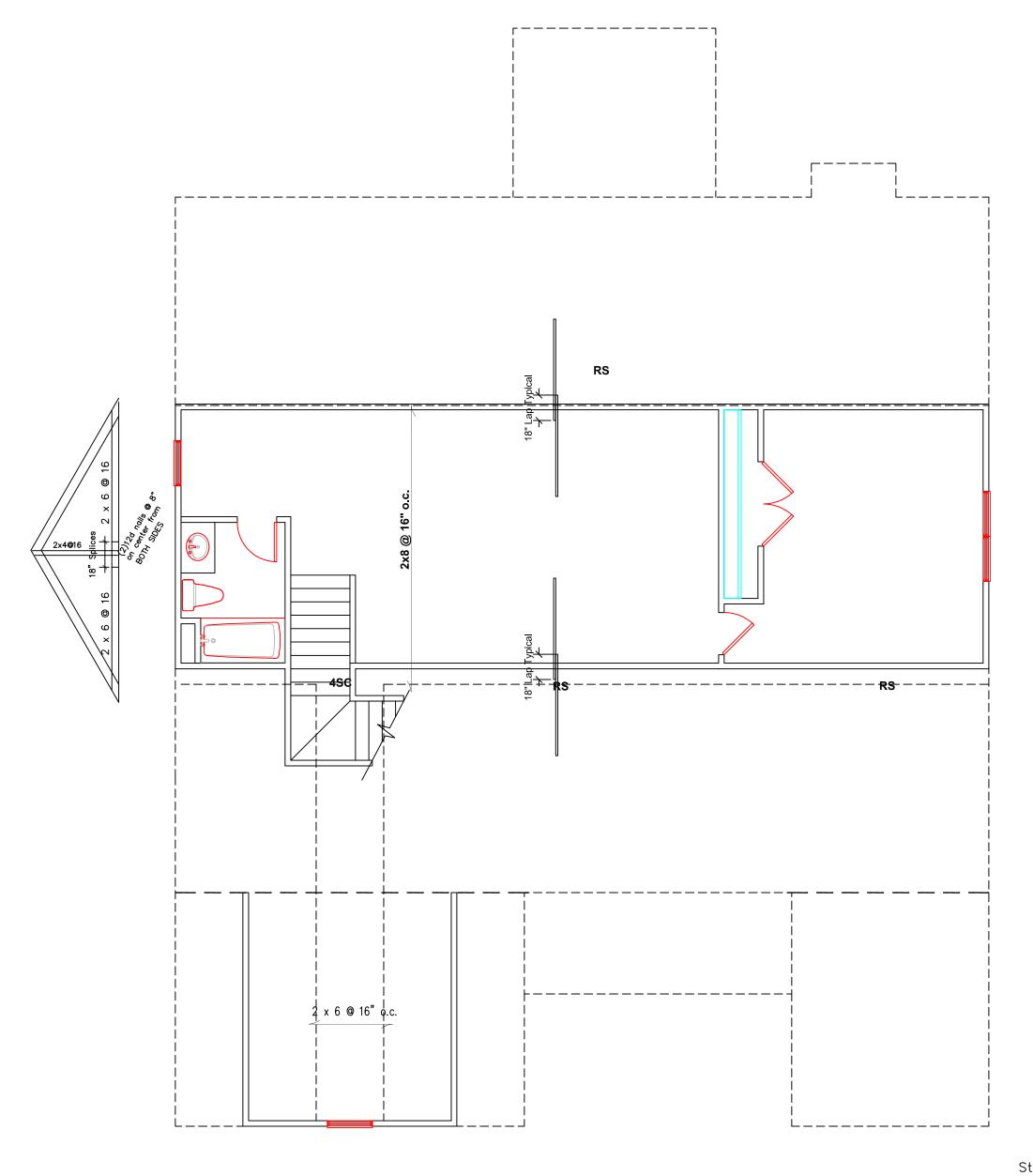
FIRST CEILING FRAMING 'C' SCALE: 3/16" = 1'-0"

> Wall Bracing 7/16" OSB Lap OSB from top plate down full eight foot sheet prior to opening cut-out. Nail with 8d nails at THREE inches on center edges/ends six inches in field. Purlins at panel



nails at THREE inches on center edges/ends

six inches in field. Purlins at panel



#### STRUCTURAL FRAMING NOTES

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- ALL BEARING HEADERS TO BE (2) 2"x 6" SUPPORTED W/MIN. (1) JACK AND (1) KING EACH END U.NO.
- ☑ INDICATES POINT LOAD PER CONSTRUCTION NOTE #6 ON
- ALL HANGERS AND CONNECTORS SPEC'D ARE TO BE
- SIMPSON STRONG TIE OR EQUIVALENT.
- ALL BEAMS SPEC'D ARE MINIMUM SIZES ONLY. LARGER MEMBERS MAY SUBSTITUTED AS NEEDED FOR EASE OF

### **Main Roof Structures Attic Truss by Manufacturer Optional Field Framing Also Shown**

Design To IRC 2015 / NCBC 2018 ALL FLOOR JOISTS 2 X 10 @16 #2 SPF OR BETTER

ALL CEILING JOIST 2 X 8 @ 16 Up To 15' 2 X 6 @ 16 Up To 11'

Design to IRC 2015 NCBC 2018

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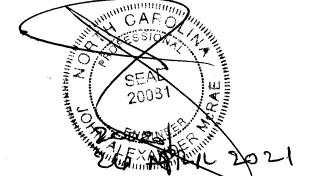
ALL EXTERIOR AND BEARING HEADER (2) 2"x10" u.n.o. ALL LVL BEAMS/HEADERS 3 STUD COLUMNS EACH END u.n.o. ALL FRAMING #2 SPF OR BETTER u.n.o.

All stories to be sheathed with 7/16" OSB nailed @ six inches on center edges and ends with additional nailing of "braced" panels as noted below: ALL EXTERIOR BEARING AND

NON LOAD BEARING WALLS Four Foot Panel at Corners and Maximum 12' o.c.

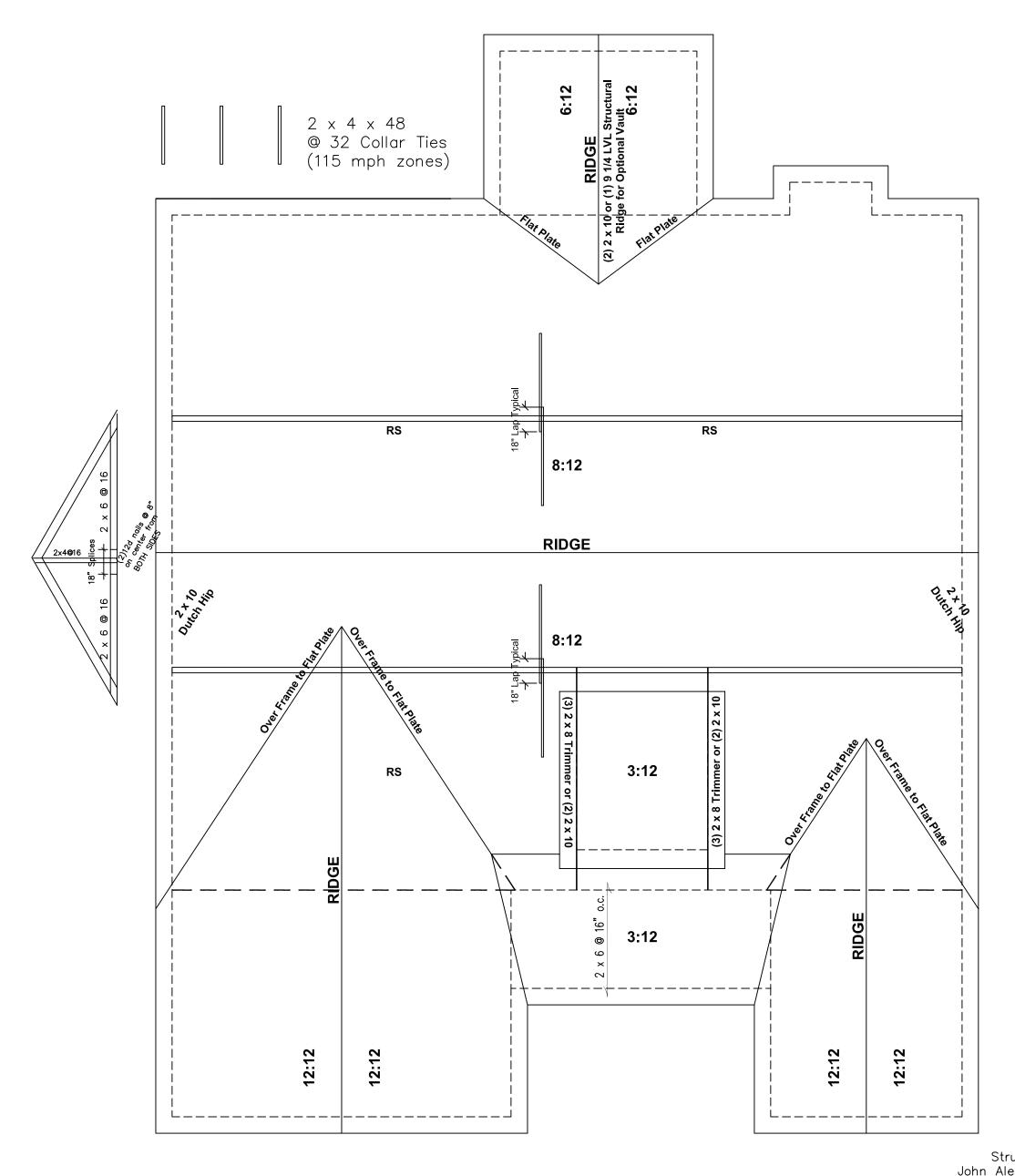


Wall Bracing 7/16" OSB Lap OSB from top plate down full eight foot sheet prior to opening cut-out. Nail with 8d Width 48" u.n.o. nails at THREE inches on center edges/ends six inches in field. Purlins at panel



### **SECOND CEILING FRAMING**

SCALE: 3/16" = 1'-0"



STRUCTURAL ROOF NOTES

1. SEE STRUCTURAL NOTES SHEET DT1

2. FRAMING SHALL BE #2 SPF OR BETTER u.n.o.

3. PROVIDE 2x4 COLLAR TIES AT 48" o.c. AT UPPER THIRD OF RAFTERS u.n.o. ON PLAN.

4. FUR RIDGES FOR FULL RAFTER CONTACT

5. DENOTES POINT LOAD. SEE CONSTRUCTION NOTE #6 ON SHEET DT1.

6. DENOTES OVERFRAMED AREA

PROVIDE 2x4 RAFTER TIES AT 16" o.c. AT 45° BETWEEN RAFTERS AND CEILING JOISTS. USE (4) 16d NAILS AT EACH CONNECTION. RAFTER TIES MAY BE SPACED AT 48" o.c. AT LOCATIONS WHERE NO KNEE WALLS ARE INSTALLED.

ATTIC VENTILATION

2948 SQ. FT. OF CEILING / 150 = 19.7 SQ. FT. OF FREE

VENT REQUIRED = 9.83 SQ. FT. IN/ 9.83 SQ. FT. OUT

NOTE: REFER TO SECTION 806 (ROOF VENTILATION) IN THE NORTH CAROLINA STATE BUILDING CODE (IRC)

All framing #2 SPF or better

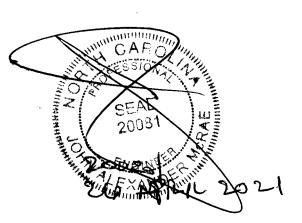
# Main Roof Structures Attic Truss by Manufacturer Optional Field Framing Also Shown

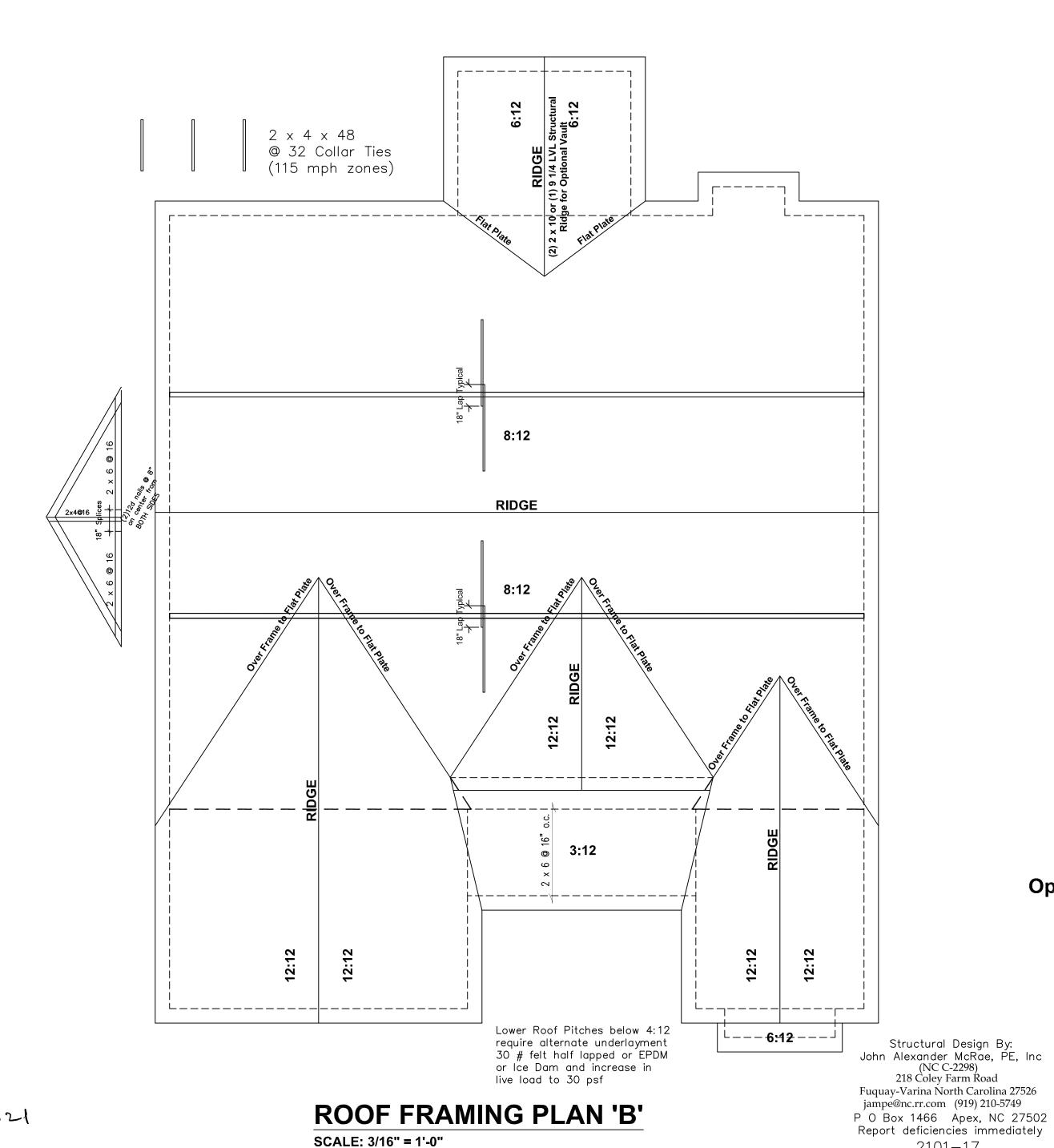
All Other Rafters
2 x 8 @ 16 #2
spf or better
all ridges 2 x 10 u.n.o.
fur ridge as required to
provide full rafter contact
fur rafters as required to
meet insulation code
lap all rafters at kneewall splices
18" minimum nail with 5—12d
nails from each side
IRC 2015 / NCBC 2018 Increases
Attic / Ceiling Insulation to R-38

**ROOF FRAMING PLAN 'A'** 

SCALE: 3/16" = 1'-0"

Structural Design By:
John Alexander McRae, PE, Inc
(NC C-2298)
218 Coley Farm Road
Fuquay-Varina North Carolina 27526
jampe@nc.rr.com (919) 210-5749
P O Box 1466 Apex, NC 27502
Report deficiencies immediately
2101—17
Design to IRC 2015 NCBC 2018





STRUCTURAL ROOF NOTES 1. SEE STRUCTURAL NOTES SHEET DT1 2. FRAMING SHALL BE #2 SPF OR BETTER u.n.o. 3. PROVIDE 2x4 COLLAR TIES AT 48" o.c. AT UPPER THIRD OF RAFTERS u.n.o. ON PLAN. 4. FUR RIDGES FOR FULL RAFTER CONTACT DENOTES OVERFRAMED AREA

RAFTERS AND CEILING JOISTS. USE (4) 16d NAILS AT EACH CONNECTION. RAFTER TIES MAY BE SPACED AT 48" o.c. AT LOCATIONS WHERE NO KNEE WALLS ARE INSTALLED.

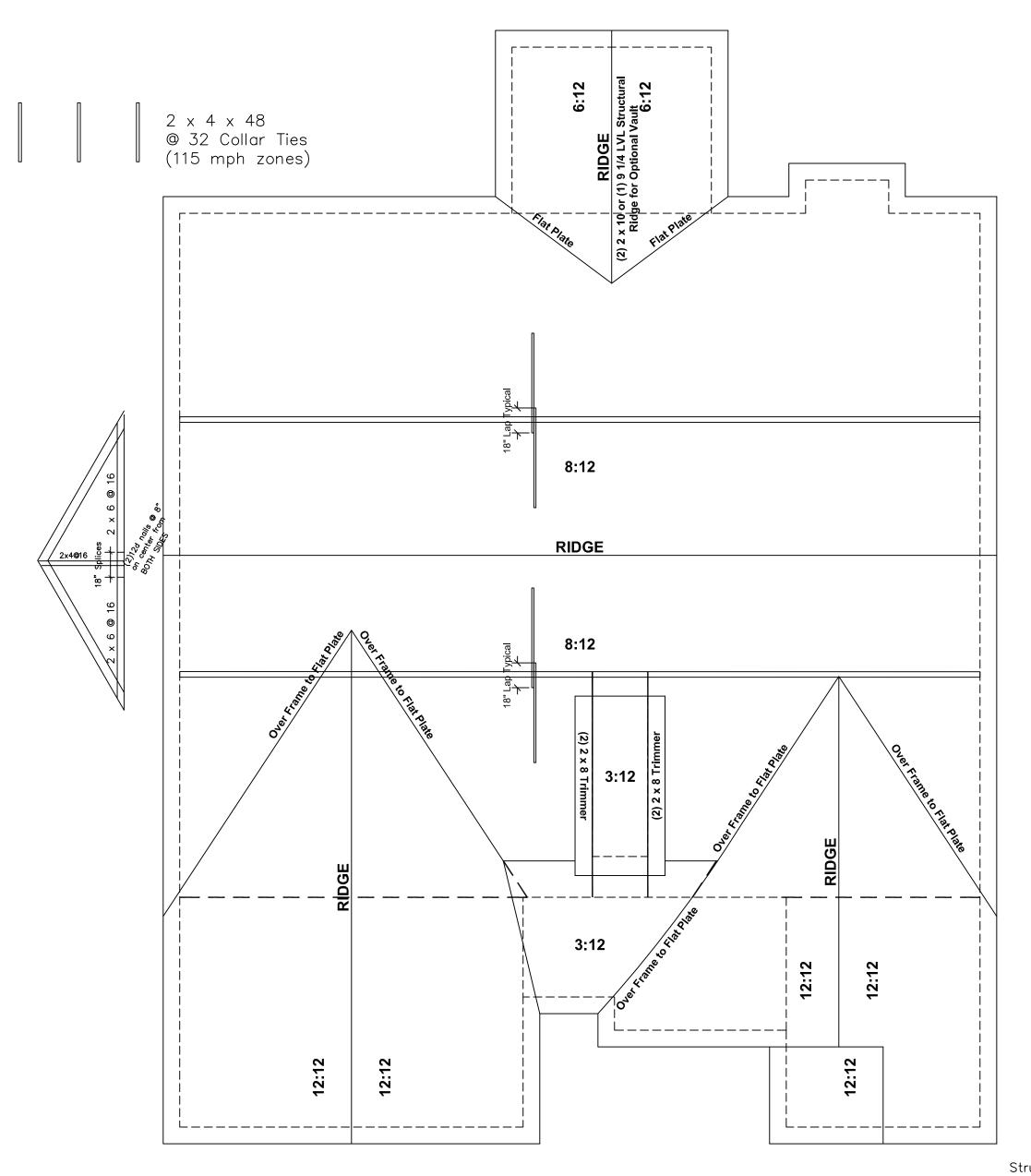
### **Main Roof Structures Attic Truss by Manufacturer** Optional Field Framing Also Shown

All Other Rafters 2 x 8 @ 16 #2 spf or better all ridges 2 x 10 u.n.o. fur ridge as required to provide full rafter contact fur rafters as required to meet insulation code lap all rafters at kneewall splices 18" minimum nail with 5—12d nails from each side IRC 2015 / NCBC 2018 Increases

Attic / Ceiling Insulation to R-38

2101-17

Design to IRC 2015 NCBC 2018



STRUCTURAL ROOF NOTES

1. SEE STRUCTURAL NOTES SHEET DT1

2. FRAMING SHALL BE #2 SPF OR BETTER u.n.o.

3. PROVIDE 2x4 COLLAR TIES AT 48" o.c. AT UPPER THIRD OF RAFTERS u.n.o. ON PLAN.

4. FUR RIDGES FOR FULL RAFTER CONTACT

5. DENOTES POINT LOAD. SEE CONSTRUCTION NOTE #6 ON SHEET DT1.

6. DENOTES OVERFRAMED AREA

PROVIDE 2x4 RAFTER TIES AT 16" o.c. AT 45° BETWEEN RAFTERS AND CEILING JOISTS. USE (4) 16d NAILS AT EACH CONNECTION. RAFTER TIES MAY BE SPACED AT 48" o.c. AT LOCATIONS WHERE NO KNEE WALLS ARE INSTALLED.

# Main Roof Structures Attic Truss by Manufacturer Optional Field Framing Also Shown

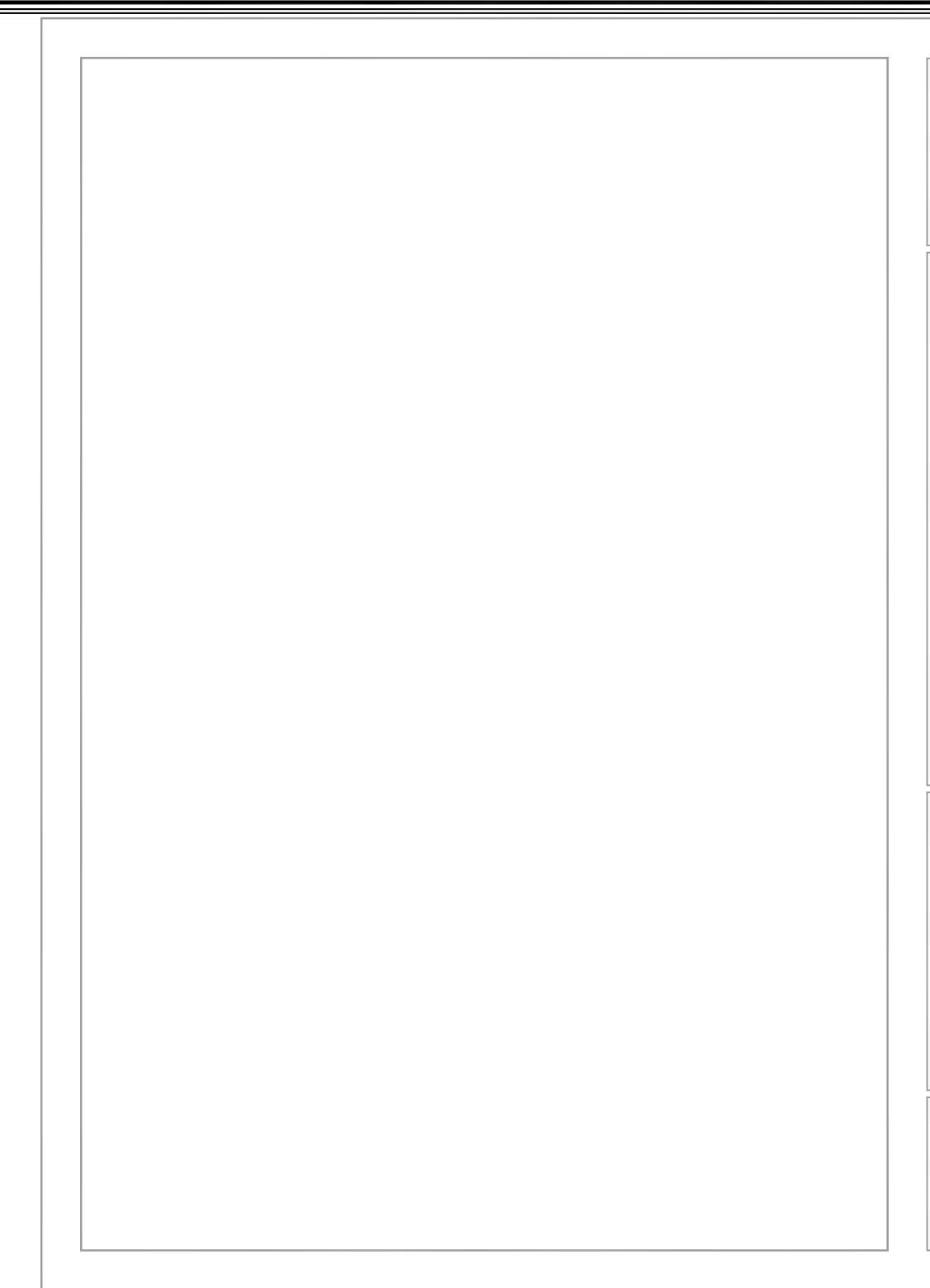
All Other Rafters
2 x 8 @ 16 #2
spf or better
all ridges 2 x 10 u.n.o.
fur ridge as required to
provide full rafter contact
fur rafters as required to
meet insulation code
lap all rafters at kneewall splices
18" minimum nail with 5—12d
nails from each side
IRC 2015 / NCBC 2018 Increases
Attic / Ceiling Insulation to R-38

**ROOF FRAMING PLAN 'C'** 

SCALE: 3/16" = 1'-0"



Structural Design By:
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Report deficiencies immediately
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#### **GENERAL NOTES**

- ENGINEER'S SEAL APPLIES TO STRUCTURAL COMPONENTS ONLY. ENGINEER'S SEAL DOES NOT CERTIFY DIMENSIONSAL ACCURACY OR ARCHITECTURAL LAYOUT INCLUDING ROOF GEOMETRY. JDS CONSULTING & DESIGN, PLLC ASSUMES NO LIABILITY FOR CHANGES MADE TO THESE PLANS BY OTHERS, OR FOR CONSTRUCTION METHODS, OR FOR ANY DEVIATION FROM THE PLANS, ENGINEER TO BE NOTIFIED PRIOR TO CONSTRUCTION IF ANY DISCREPANCIES ARE NOTED ON THE PLANS.
- ALL CONSTRUCTION, WORKMANSHIP, MATERIAL QUALITY AND SELECTION SHALL BE IN ACCORDANCE WITH THE NORTH CAROLINA STATE BUILDING CODE - RESIDENTIAL CODE 2012
  EDITION FROM THE 2009 INTERNATIONAL RESIDENTIAL CODE
  (IRC). DIMENSIONS SHALL GOVERN OVER SCALE AND CODE SHALL GOVERN OVER DIMENSIONS
- THESE PLANS ARE ISSUED FOR A CONDITIONAL ONE TIME USE FOR THE LOT OR ADDRESS SPECIFIED ON THE TITLE BLOCK.
  PLANS MUST HAVE SIGNED SEAL AND BE CONSTRUCTED ON SPECIFIED LOT OR ADDRESS TO BE VALID.

#### CONSTRUCTION

- . IT IS THE CONTRACTORS RESPONSIBILITY TO VERIFY ALL DIMENSIONS PRIOR TO CONSTRUCTION. FURTHERMORE CONTRACTOR IS ULTIMATELY RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, AND SAFETY ON SITE, NOTIFY JDS CONSULTING & DESIGN, PLLC IMMEDIATELY IF DISCREPANCIES ON
- ALL INTERIOR AND EXTERIOR BEARING HEADERS TO BE MINIMUM (2) 2x6 #2 SPF WITH (1) JACK AND (1) KING STUD AT EACH END U.N.O.
- ALL ENGINEERED WOOD PRODUCTS (LVL, PSL, LSL, ETC.) SHALL BE INSTALLED WITH CONNECTIONS PER MANUFACTURER SPECIFICATIONS.
- ALL STEEL BEAMS TO BE SUPPORTED AT EACH END WITH A MIN. BEARING LENGTH OF 3 1/2" AND FULL FLANGE WIDTH. BEAMS MUST BE ATTACHED AT EACH END WITH A MINIMUM OF FOUR 16d NAILS OR TWO 1/2" x 4" LAG SCREWS U.N.O.
- ALL BEAMS TO BE CONTINUOUSLY SUPPORTED LATERALLY AND SHALL BEAR FULL WIDTH ON THE SUPPORTING WALLS OR COLUMNS INDICATED WITH A MINIMUM OF THREE STUDS U.N.O.
- SOLID BLOCKING TO BE PROVIDED AT ALL POINT LOADS
  THROUGH FLOOR LEVELS TO THE FOUNDATION OR TO OTHER STRUCTURAL COMPONENTS.
- ENGINEERED WOOD FLOOR SYSTEMS AND ROOF TRUSS SYSTEMS TO BE PROVIDED FOR REVIEW AND COORDINATED WITH THE ENGINEER OF RECORD. INSTALLATION TO BE IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS. ROOF TRUSS DRAWINGS TO BE SIGNED AND SEALED BY THE MANUFACTURER AND REVIEWED BY THE ENGINEER OF RECORD PRIOR TO
- STEEL FLITCH BEAMS TO BE BOLTED TOGETHER USING (2) ROWS OF 1/2" DIAM. BOLTS (ASTM 307) WITH WASHERS PLACED UNDER THE THREADED END OF THE BOLT. BOLTS TO BE SPACED AT 24" o.c. (MAX), AND STAGGERED TOP AND BOTTOM OF BEAM (2" EDGE DISTANCE), WITH TWO BOLTS TO BE LOCATED AT 6" FROM EACH END OF FLITCH BEAM.
- BRICK LINTELS TO BE 3 1/2 x 3 1/2 x 1/4 STEEL ANGLE FOR UP TO 6'-0" SPAN AND 6 x 4 x 5/16 STEEL ANGLE FOR SPANS GREATER THAN 6'-0" AND UP TO 10'-0" U.N.O.
- 0. BRICK LINTELS AT SLOPED AREAS TO BE 4 x 3 1/2 x 1/4 STEEL ANGLE WITH 16d NAILS IN 3/16" HOLES IN 4" ANGLE LEG AT 12" o.c. TO TRIPLE RAFTER. WHEN THE SLOPE EXCEEDS 4:12 A MINIMUM OF 3 x 3 x 1/4 PLATES SHALL BE WELDED AT 24" o.c. ALONG THE STEEL ANGLE.
- . ATTACH PORCH COLUMNS TO SLAB/FDN WALL USING ABA -OR-ABE SIMPSON POST BASES TO FIT COLUMN SIZES CALLED ON PLAN -OR- ANY OTHER COLUMN CONNECTION WITH 500# UPLIFT.
- 1. ATTACH PORCH COLUMNS TO UPPER PORCH BANDS USING AC -OR- BC SIMPSON POST CAPS TO FIT COLUMN SIZES CALLED ON PLAN -OR- ANY OTHER COLUMN CONNECTION WITH 500# UPLIFT.
- 12. ALL METAL HANGERS, STRAPS, AND HOLD-DOWNS TO BE SIMPSON STRONG-TIE OR EQUIV

DESIGN LOADS		
	LIVE LOAD	DEAD LOAD
TABLE R301.5	(PSF)	(PSF)
DWELLING UNITS	40	10
SLEEPING ROOMS	30	10
ATTICS WITH STORAGE	20	10
ATTICS WITHOUT STORAGE	10	10
ROOF SNOW	20	10
STAIRS	40	10
DECKS	40	10
EXTERIOR BALCONIES	60	10
PASSENGER VEHICLE GARAGES	50	
FIRE ESCAPES	40	10
GUARDRAILS AND HANDRAILS	200	

TABLE R301.2(4) - DESIGN POSITIVE AND NEGATIVE PRESSURE FOR DOORS AND WINDOW FOR A MEAN ROOF HEIGHT OF 35 FEET OR LESS SHALL BE 25 PSF

TABLE R301.2(2) - COMPONENT AND CLADDING LOADS FOR A BUILDING LOCATED IN EXPOSURE B

ROOF VALUES BOTH POSITIVE AND NEGATIVE SHALL BE DESIGNED BASED ON ROOF PITCHES AND MEAN ROOF HEIGHT AS FOLLOWS:

 
 MEAN ROOF HEIGHT

 0-30 FT
 35 FT
 40 FT

 45.4 PSF
 47.7 PSF
 49.5 PSF
 7:12 TO 12:12 21.0 PSF 22.1 PSF 22.9 PSF

WALL CLADDING SHALL BE DESIGNED FOR A 24.1 PSF POSITIVE AND NEGATIVE PRESSURE

### ROOF TRUSS SYSTEM (IF USED) TRUSS LAYOUT AND PLACEMENT BY MANUFACTURER TO COINCIDE

WITH THE SUPPORT LOCATIONS SHOWN. TRUSS PROFILES SHALL BE SEALED BY THE TRUSS MANUFACTURER. TRUSS PLANS SHALL BE PROVIDED FOR REVIEW AND COORDINATED WITH THE ENGINEER OF RECORD AS REQUIRED BY THE BUILDING CODE OFFICIALS. INSTALLATION SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.

### UPLIFT NOTE: 1. MFTR TO PROVIDE REQUIRED UPLIFT CONNECTION.

- 2. PROVIDE H2.5A OR EQUIVALENT AT EACH RAFTER TO TOP PLATE CONNECTION (UNO) AT OVER-FRAMED AREAS.
- 3. UPLIFT CONNECTION TO BE CARRIED THRU TO FLOOR SYSTEM.

#### MATERIALS

1. INTERIOR / TRIMMED FRAMING LUMBER SHALL BE #2 SPRUCE PINE FIR (SPF) WITH THE FOLLOWING DESIGN PROPERTIES

Fb = 875 PSI Fv = 70 PSI E = 1.4E6 PSI

FRAMING LUMBER EXPOSED TO WEATHER OR IN CONTACT WITH THE GROUND, CONCRETE, OR MASONRY SHALL BE PRESSURE TREATED #2 SOUTHERN YELLOW PINE (SYP) WITH THE FOLLOWING DESIGN PROPERTIES:

Fb = 975 PSI Fv = 95 PSI E = 1.6E6 PSI

LVL STRUCTURAL MEMBERS TO BE LAMINATED VENEER LUMBER WITH THE FOLLOWING MINIMUM DESIGN PROPERTIES:

Fb = 2600 PSI Fv = 285 PSI E = 1.9E6 PSI

PSL STRUCTURAL MEMBERS TO BE PARALELL STRAND LUMBER WITH THE FOLLOWING MINIMUM DESIGN PROPERTIES:

Fb = 2900 PSI Fv = 290 PSI E = 2.0E6 PSI

LSL STRUCTURAL MEMBERS TO BE LAMINATED STRAND LUMBER WITH THE FOLLOWING MINIMUM DESIGN PROPERTIES

Fb = 2250 PSI Fv = 400 PSI E = 1.55E6 PSI

STRUCTURAL STEEL WIDE FLANGE BEAMS SHALL CONFORM TO ASTM A36. Fy = 50 KSI

REBAR SHALL BE DEFORMED STEEL CONFORMING TO ASTM A615

SEE TABLE R602.3(1) FOR STRUCTURAL MEMBER FASTENING

POURED CONCRETE TO BE MINIMUM 3000 PSI AT 28 DAYS. MATERIALS USED TO PRODUCE CONCRETE SHALL COMPLY WITH THE APPLICABLE STANDARDS LISTED IN ACI 318 OR ASTM C 1157.

CONCRETE LOCATED PER TABLE R301.2(1) SHALL BE AIR ENTRAINED PER TABLE R402.2.

MASONRY UNITS SHALL CONFORM TO ACI 530/ASCE 5/TMS 402 AND MORTAR SHALL COMPLY WITH ASTM C 270.

### **FOUNDATION**

CONDITIONS EXIST.

MINIMUM ALLOWABLE SOIL BEARING CAPACITY IS ASSUMED TO BE 2000 PSF. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY SOIL BEARING CAPACITY IF UNSATISFACTORY

CONCRETE AND MASONRY FOUNDATION WALLS TO BE SELECTED AND CONSTRUCTED IN ACCORDANCE WITH THE PROVISIONS OF SECTION R404 OR IN ACCORDANCE WITH ACI 318, NCMA TR68-A, OR ACI 530/ASCF 5/TMS 402.

MASONRY AND POURED CONCRETE WALL REINFORCEMENT TO BE IN ACCORDANCE WITH **TABLES R404.1.1 (1 THROUGH 4)** OF THE NORTH CAROLINA RESIDENTIAL CODE.

A. PER <u>R404.1.3</u>, TABLES ASSUME THAT WALLS HAVE PERMANENT LATERAL SUPPORT AT THE TOP AND

воттом. B. WALL REINFORCING SHALL BE PLACED ACCORDING TO FOOTNOTE (c) OF THE TABLES (REINFORCING IS NOT

CENTERED IN WALL) C. FOUNDATION DRAINS ARE ASSUMED AT ALL WALLS PER

WOOD SILL PLATES TO BE ANCHORED TO THE FOUNDATION WITH 1/2" ANCHOR BOLTS WITH MINIMUM 7" EMBEDMENT SPACED A MAXIMUM OF 6'-0" o.c.(3'-0" FOR BASEMENT WALLS) AND WITHIN 12" FROM THE ENDS OF EACH PLATE SECTION. INSTALL MIN. (2) ANCHOR BOLTS PER SECTION.

THE UNSUPPORTED HEIGHT OF SOLID MASONRY PIERS SHALL NOT EXCEED TEN TIMES THEIR LEAST DIMENSION. UNFILLED HOLLOW PIERS MAY BE USED IF THE UNSUPPORTED HEIGHT IS NOT MORE THAN FOUR TIMES THEIR LEAST DIMENSION.

CENTERS OF PIERS TO BEAR IN THE MIDDLE THIRD OF THE FOOTINGS, AND GIRDERS SHALL CENTER IN THE MIDDLE THIRD OF THE PIERS.

ALL FOOTINGS TO HAVE MINIMUM 2" PROJECTION ON EACH SIDE OF FOUNDATION WALLS.

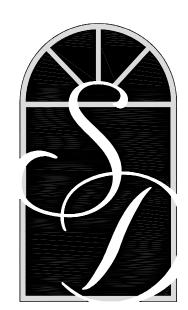
## **ABBREVIATIONS** CONC

DBL DIAM DIAMETER DJ DSP EA FL PT FTG HGR DOUBLE JOIST DOUBLE STUD POCKET FLAT PLATE FOOTING HANGER MANUFACTURER NOT TO SCALE ON CENTER PRESSURE TREATED STUD COLUMN STUD POCKET TRIPLE JOIST TYPICAL UNLESS NOTED OTHERWISE EXTRA JOIST

CONTINUOUS

DOUBLE

MISC. / SPECIAL NOTES SECTION



# **DESIGNS**

Wake Forest, NC 27588 (O) 919-556-2226 (F) 919-556-2228 www.southdesigns.com

Drawn By: **RWB** Checked By: RWB 11-3-2020 Date: Revision No. Revision Date

### Designer Signature

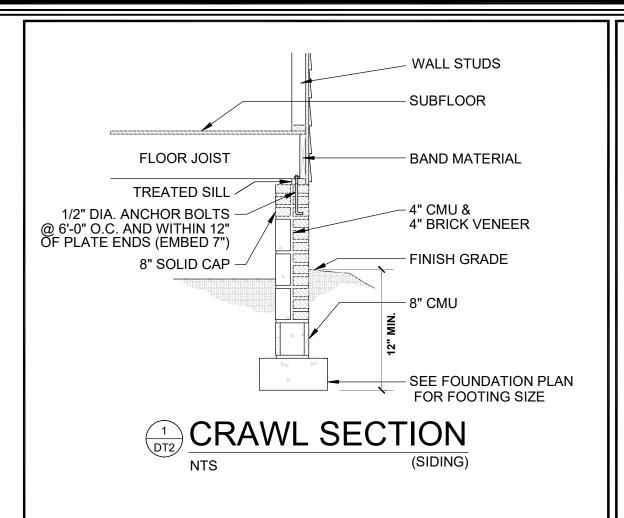
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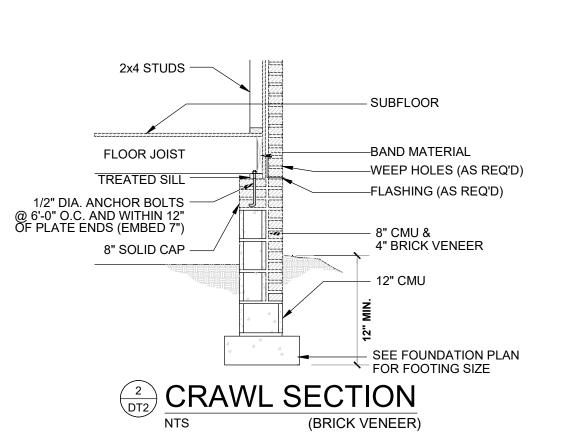
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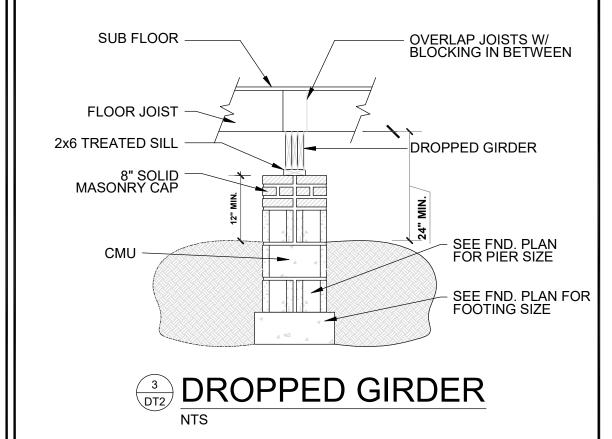
Client: Properties Building

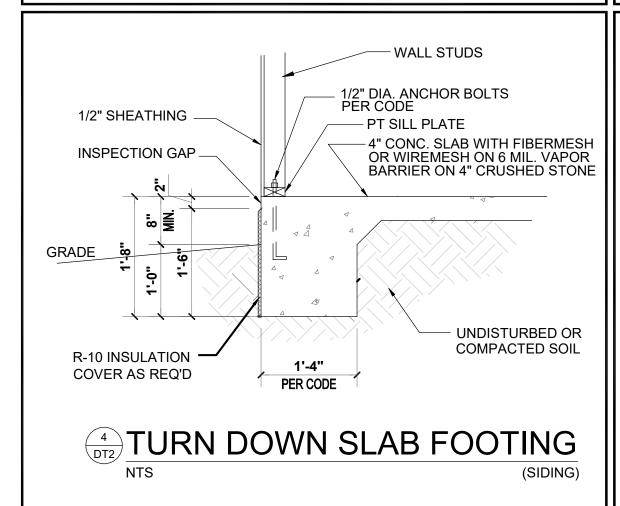
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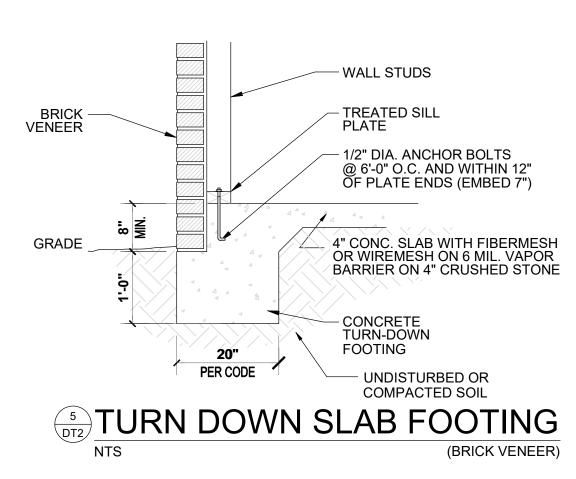
Plan No. "Anne" Purfoy Place Sheet No.

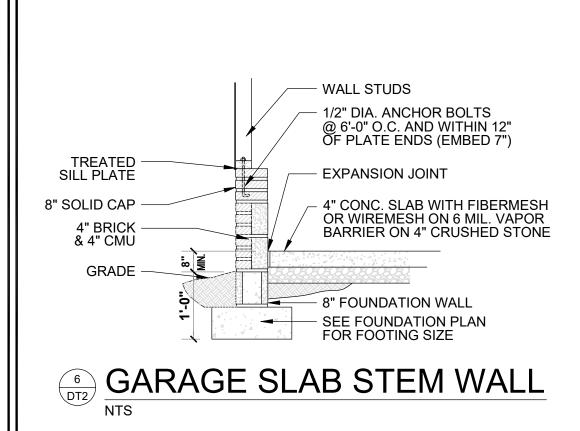


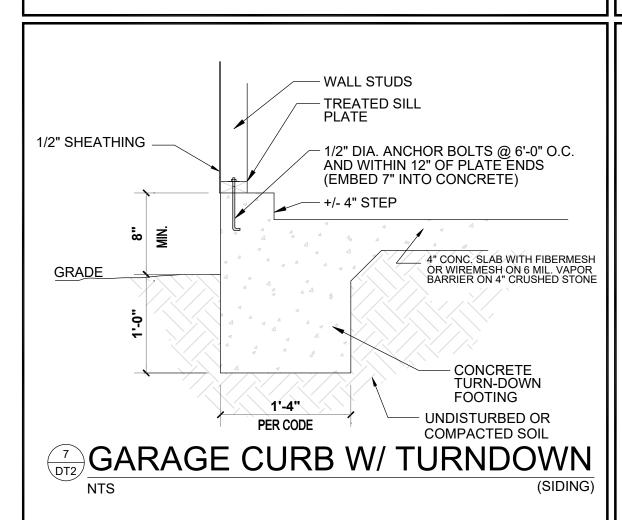


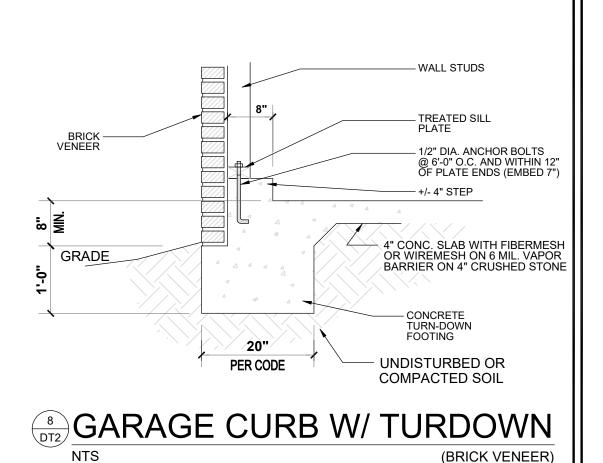


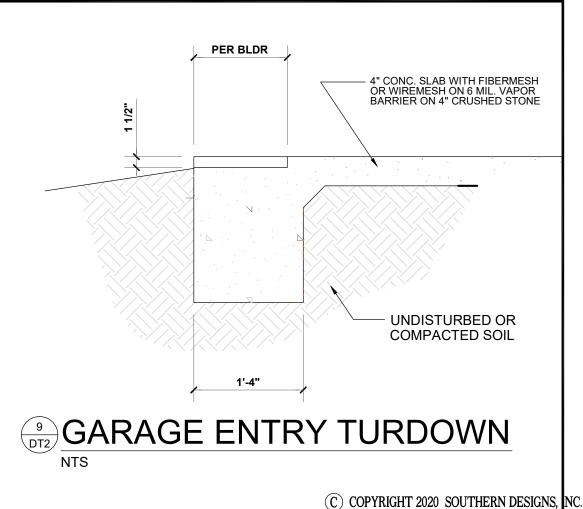


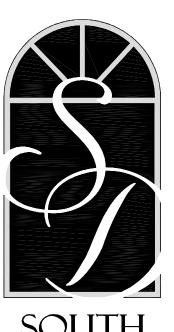












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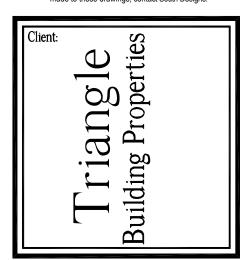
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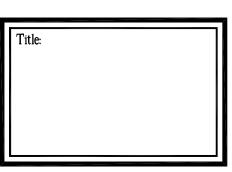
	Drawn By: RV	VB
	Checked By: RV	VB
II	Date: 11-3-2	2020
I	Revision No.	Revision Date
II		

### Designer Signature

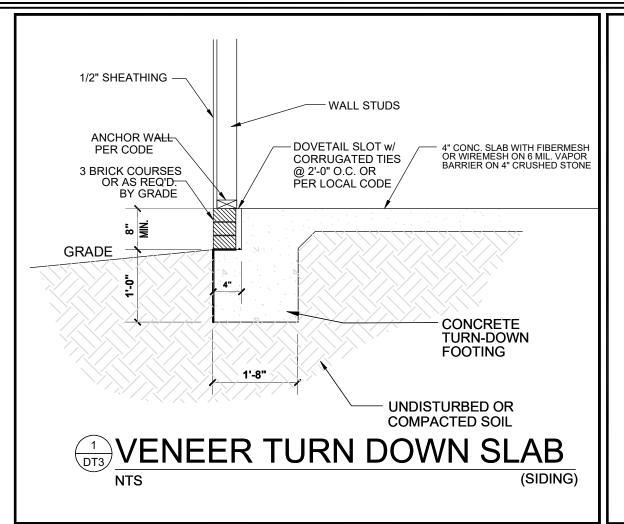
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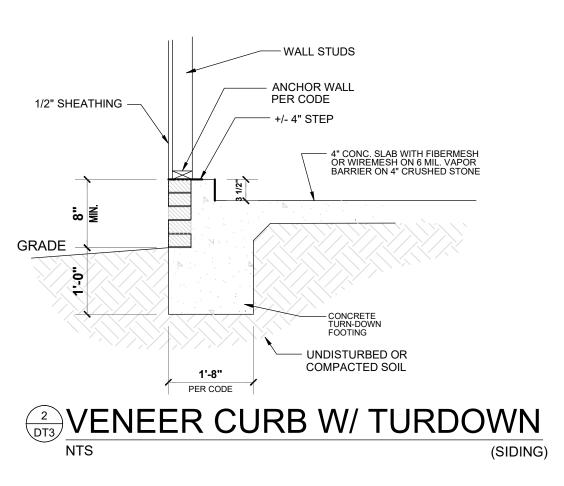
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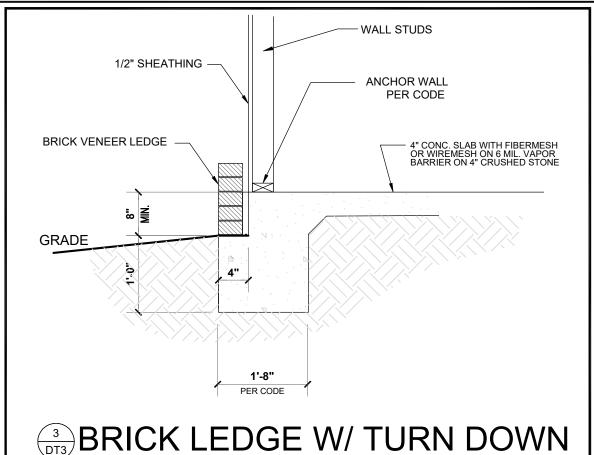




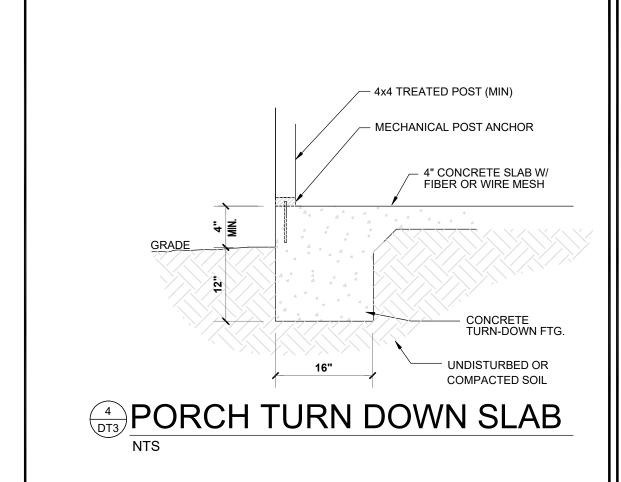
"Anne"
Plan No.
"Anne"
Purfoy Place
Sheet No.
Of

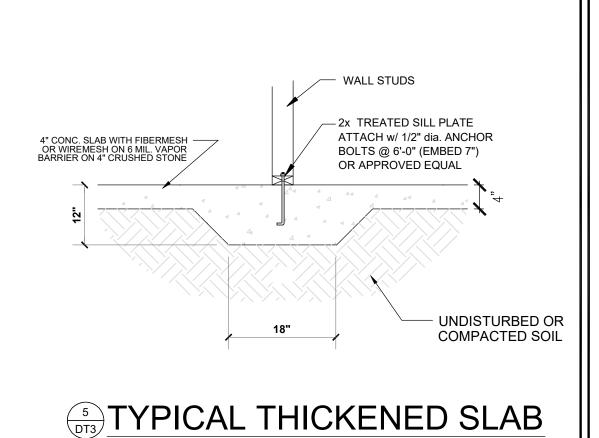


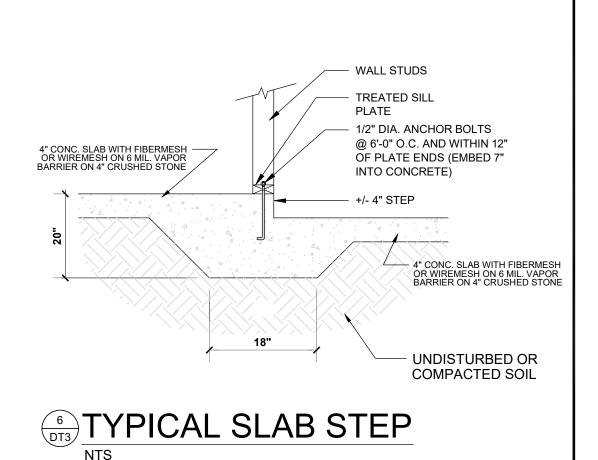


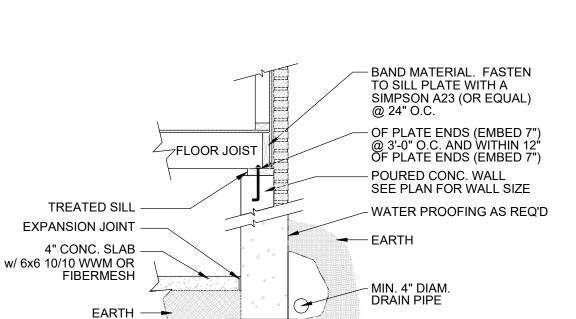


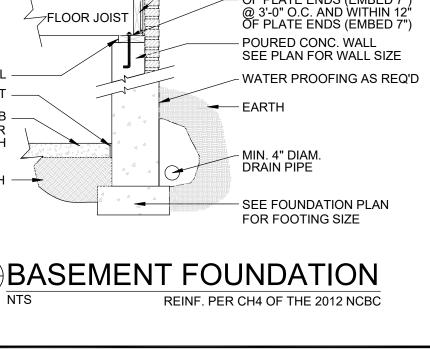
BRICK LEDGE W/ TURN DOWN

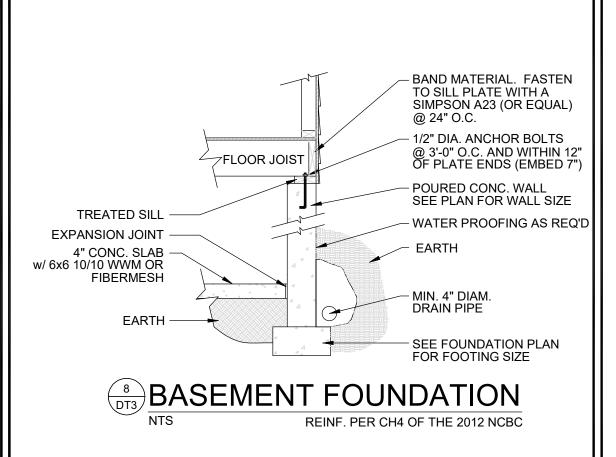














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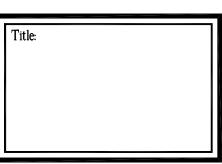
Drawn By: RWB Checked By: RWB 11-3-2020 Revision No. Revision Date

### Designer Signature

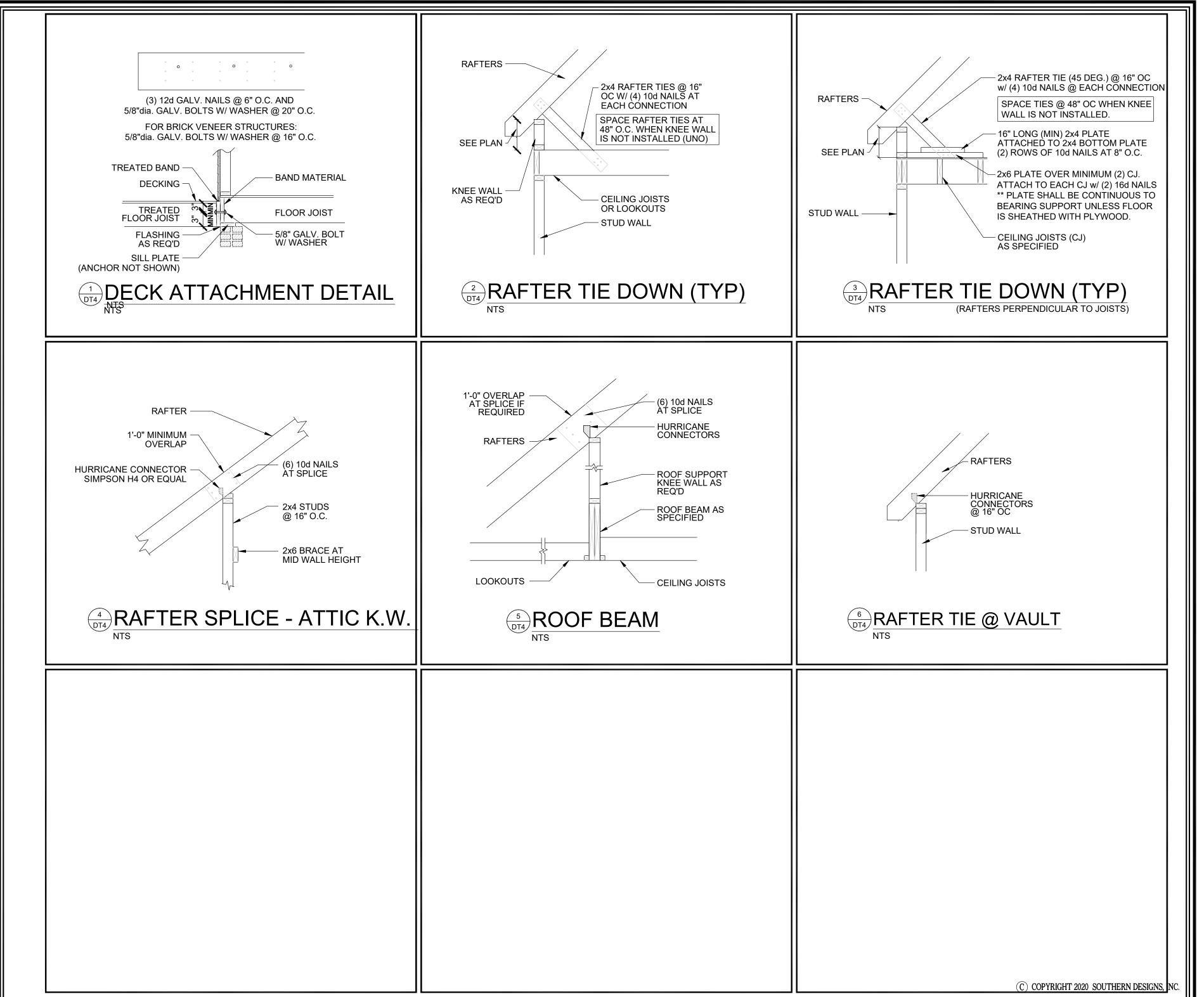
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Properties Building



"Anne" Purfoy Place Sheet No.





# SOUTH DESIGNS

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Drawn By: RWB

Checked By: RWB

Date: 11-3-2020

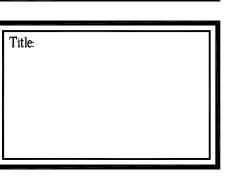
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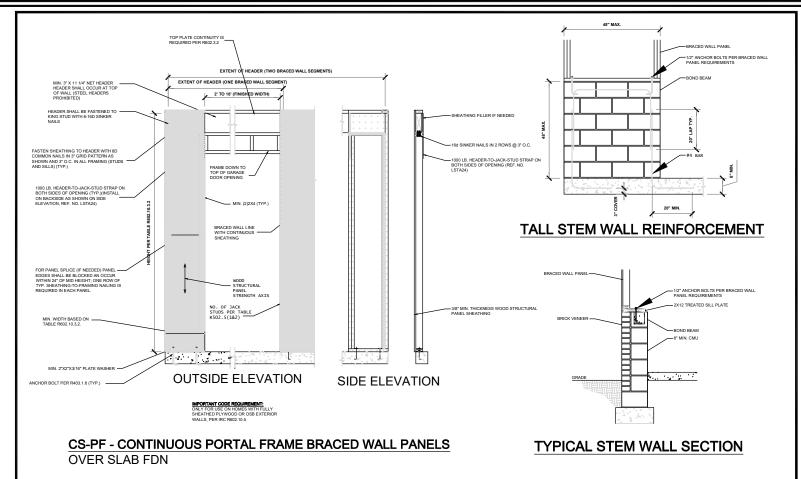
Triangle Suilding Properties

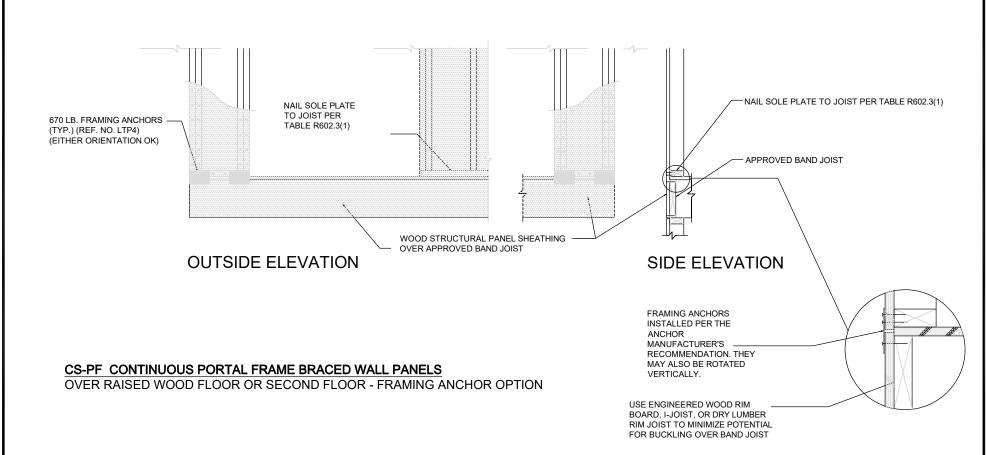


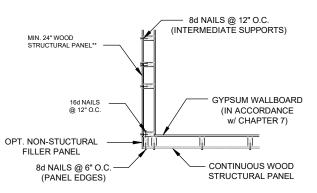
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Plan No.
"Anne"
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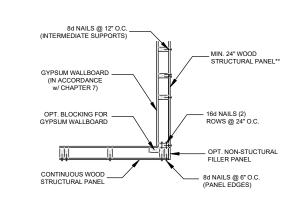






**OUTSIDE CORNER DETAIL** 





GARAGE DOOR CORNER

### WALL CORNER DETAILS

### **BRACING NOTES**

### BRACED WALL CONSTRUCTION NOTES: 30' MAX MRH - 10 FT MAX WALL HEIGHT (EXCEPT ITEM 5)

- 1. ALL EXTERIOR WALLS ARE BRACED WALLS NOTATED EBW AND CONTINUOUSLY SHEATHED (EXTERIOR ONLY) WITH MIN. 7/16 OSB. MINIMUM WALL BRACED WALL PANEL LENGTH TO BE 12' PER LEVEL IN EACH DIRECTION U.N.O. W/ 6D COMMON NAILS AT 6" O.C. AT PANEL EDGES AND 12" O.C. AT INTERMEDIATE STUD SUPPORTS. PROVIDE BLOCKING BETWEEN STUDS AT PANEL BREAK IF OSB PANEL HEIGHT DOES NOT MATCH WALL HEIGHT (FIRST LEVEL SHEATHING TO LAP TREATED MUD-SILL PLATE).
- 2. ALL INTERIOR BRACED WALLS NOTATED IBW (IF USED) ARE TO BE BRACED USING DOUBLE SIDED GWB WITH A MINIMUM BRACED PANEL LENGTH OF 20' PER LEVEL U.N.O. W/ GWB NAILED TO STUDS AT 7" O.C.
- 3. MAXIMUM DISTANCE BETWEEN BRACED WALL LINES TO BE 60' U.N.O.
- 4. MAXIMUM OFFSET FOR BRACED WALL CONTINUITY TO BE 4' EACH AND 8' TOTAL PER BRACED WALL LINE (BWL)
- 5. BALLOON FRAMED AND TALL WALLS (OVER 10'-0") TO BE BRACED USING A COMBINATION OF INTERIOR SIMPSON WB126 STRAPPING (CROSS PATTERN FULLY NAILED) W/ ½" GWB AND EXTERIOR OSB SHEATHING WITH CONNECTIONS AS OUTLINED ABOVE.
- 6. PROVIDE 800# HOLD DOWN FASTENERS AT BUILDING CORNERS WHEN A MINIMUM 24" RETURN CANNOT BE MET. SEE R602.10 FOR HOLD DOWN ATTACHMENT.
- 7. FOR 120 MPH & 130 MPH PROVIDE BLOCKING PER R4506.2 IF LESS THAN 50% OF THE WALL LENGTH IS SHEATHED.

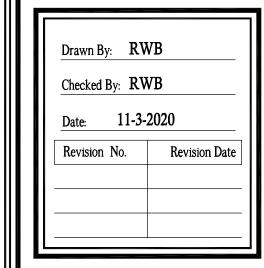
### WSP - WOOD STRUCTURAL PANEL **GB - GYPSUM BOARD** BRACED WALL PANEL PER IRC TABLE R602.10.2.1 BRACED WALL PANEL PER IRC TABLE R602.10.2.1 3/8" MIN. OSB SHEATHING ON ONE SIDE OF WALL. 1/2" GYPSUM BOARD NAILED TO STUDS AT 7" O.C. MINIMUM PANEL LENGTH 48". MINIMUM PANEL LENGTH 48" WHEN APPLIED TO 4'-0" 4'-0" BOTH SIDES OF WALL AND 96" WHEN APPLIED TO ONE SIDE OF WALL. PROVIDE BLOCKING BETWEEN STUDS AT PANEL BREAK IF OSB PANEL HEIGHT DOES NOT MATCH WALL HEIGHT 6d COMMON NAILS AT 6" SPACING AT PANEL EDGES AND 12" SPACING AT INTERMEDIATE SUPPORTS. 4'-0" **BRACING METHODS** (C) COPYRIGHT 2020 SOUTHERN DESIGNS, NC.



## SOUTH DESIGNS

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### Designer Signature

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Triangle
Building Properties

