

**STRUCTURAL DESIGN BY:  
SOUTHERN ENGINEERS, P.A.  
110 BENSON DR. MARIETTA, GA 30060  
LICENSE #C-1521 PHONE: 404-367-1617**

**PROJECT #:** 11-1057

**1.** Engineers shall apply their professional judgment to structural designs contained in documents. Seal does not include construction means, methods, techniques, sequences, procedures or safety techniques.

**2.** All plans and drawings are to be submitted in plain and to be brought to the immediate attention of Southern Engineers. Failure to do so will void Southern Engineer's liability. Seal is good for one year from date of permit issued by one year from date of seal.

**3.** Use of these plans constitutes approval of terms and conditions as defined in the customer agreement.



Project #	15KB-104
Date:	7-13-15
Drawn/Design By:	KBB
Scale:	1/4" = 1'-0"

9101 Ten-Ten Rd.  
Raleigh, NC 27603  
Office: (919) 302-0693  
Fax: (919) 661-2632

**DESIGN INC.**  
*Where Dreams Become Reality*

Email: Kent@KandaHomeDesigns.com

Rico

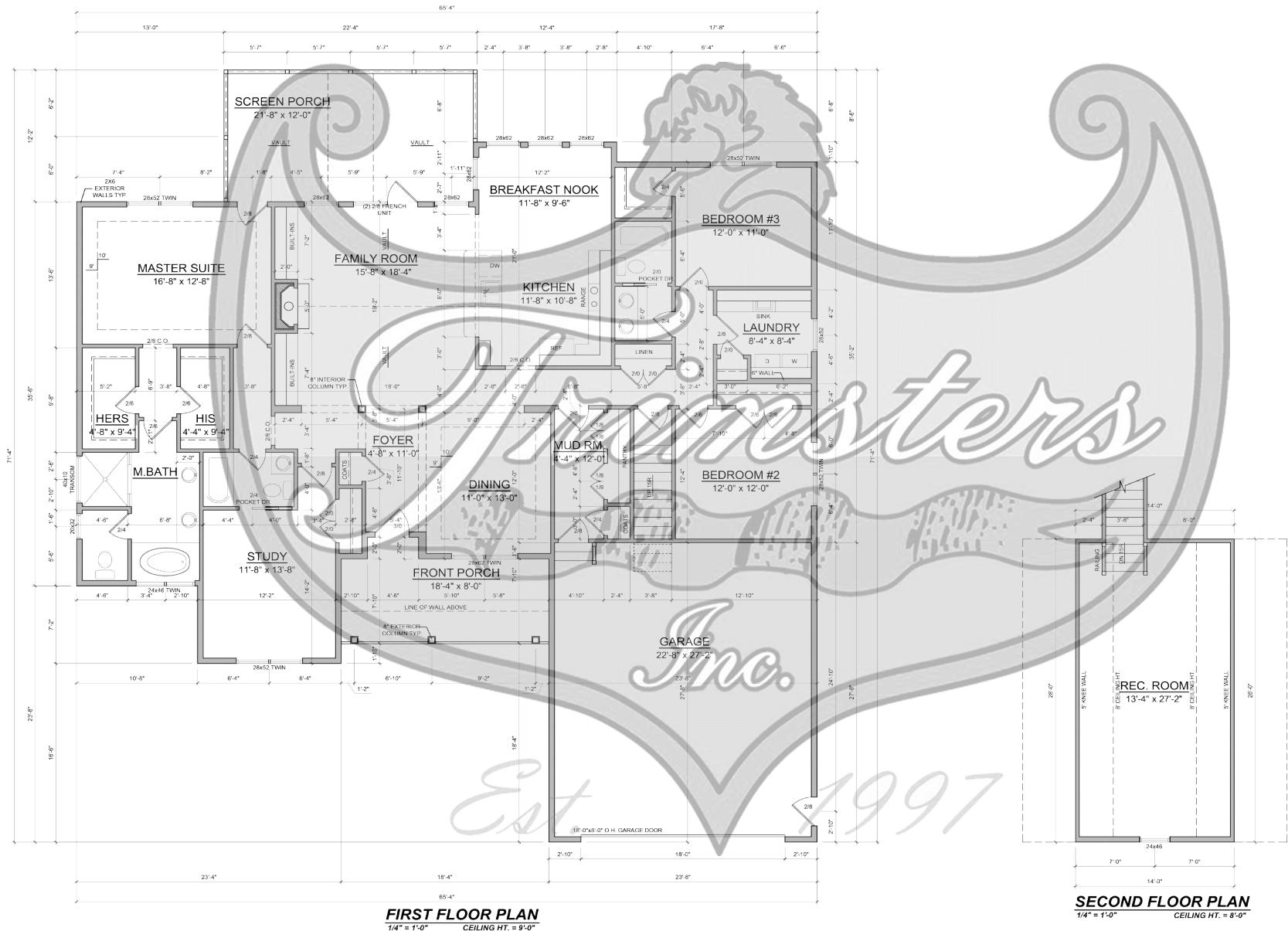
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150 West Rd.  
Angier, NC 27501

Sheet Number

FOUNDATION PLAN

1/4" =

Sheet Number



Project	15KB-104
Date	7-13-15
Architect	KBB
Name	14'-1" x 1'-0"

No.	Date	Remarks
1		
2		
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4		

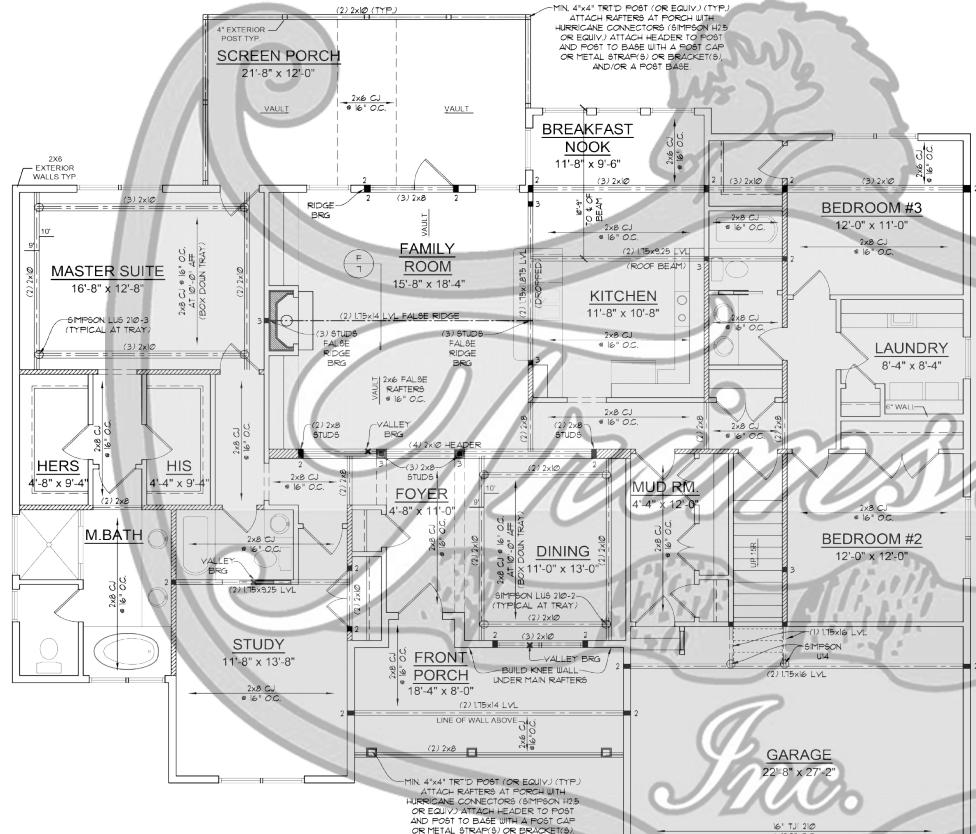
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WALL BRACING NOTES: (100 MPH)  
WALL BRACING IS BASED ON R602.10 - CODE AND COMMENTARY FOR 2012 NC RESIDENTIAL CODE (ANAL 03-06-2012).  
EFFECTIVE DATE SEPTEMBER 1, 2013.

2. NOTE THAT THE WALL 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.

3. BRACING METHOD AND TYPE: CONTINUOUS SHEATHING PER SECTION R602.10.3 USING WSP (WOOD STRUCTURAL PANEL SHEATHING).

4. EXTERIOR WALL SHEATHING: SHEATH EXTERIOR WALLS WITH  $\frac{3}{8}$ " USG (WOOD STRUCTURAL PANEL) SHEATHING AND ATTACH WITH #9 NAILS. SHEATHING SHALL BE ATTACHED AT 16"-O.C. AND 12"-O.C. AT INTERMEDIATE SUPPORTS; INSTALL BLOCKING AT ALL PANEL EDGES. (WSP SHEATHING SHALL EXTEND TO UPERPOST DOUBLE BEARING PLATE.) BLOCK AT ROOF PER R602.10.5.

5. MINIMUM WALL LENGTHS ARE BASED ON TABLE R602.10.3 AND ARE TO BE LOCATED AS SPECIFIED IN SECTION R602.10.3.

6. HOLD DOWN DEVICE (NOTED AS "HD" ON PLANS) SHALL BE AN 820 POUND CAPACITY ASSEMBLY AS NOTED ON PLANS. SEE DETAILS FOR HD ASSEMBLY.

7. INTERIOR BRACED WALL (NOTED AS "IBIP" ON PLANS) ATTACH 1/2" GYPSUM BOARD (LUDCO) ON EACH SIDE OF WALL WITH 1/4" MIN. OF SG COATING NAILS OR #8 SCREWS @ 6"-O.C. ON THE EDGES AND 12"-O.C. IN THE CENTER. AFTER THE GYPSUM BOARD IS ATTACHED, IT SHALL BE CONNECTED AS DESCRIBED IN R602.10.5.4 AND FIGURES CR602.10.5.4(A) AND CR602.10.5.4(B).

STRUCTURAL DESIGN BY:  
SOUTHERN ENGINEERS, P.A.  
MC 16073  
LICENSURE: C-128, PHONE: 919-478-1611  
PROJECT: 10213  
Engineser seal applies only to structural components on this document. Seal does not apply to other services or products. Services, sequences, procedures or safety precautions are the responsibility of the engineer. Failure to do so can void the engineer's liability.  
Seal is valid for a project permitted under the original contract.  
Use of these plans constitutes approval of same conditions as defined in the customer agreement.

REFER TO SD SHEET(S)  
FOR STANDARD DETAILS  
AND STRUCTURAL NOTES.

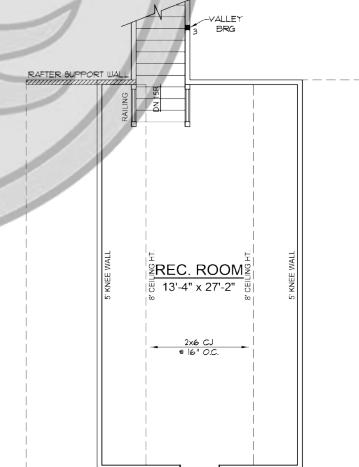
WHOLE HOUSE  
BRACING SUMMARY  
TOTAL REQUIRED BRACING: 7'  
TOTAL PROVIDED BRACING: 23'  
(IN FEET)

#### HEADER AND COLUMN NOTES

##### 1. ALL EXTERIOR AND LOAD BEARING

HEADERS SHALL BE MIN. (3) 2x6 WITH (1) SUPPORT STUD AND (1) KING 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.



Project: 15KB-104  
7-13-15  
Architect: KBB  
Name: 14'-0" x 1'-0"

No.	Date	Comments
1		
2		
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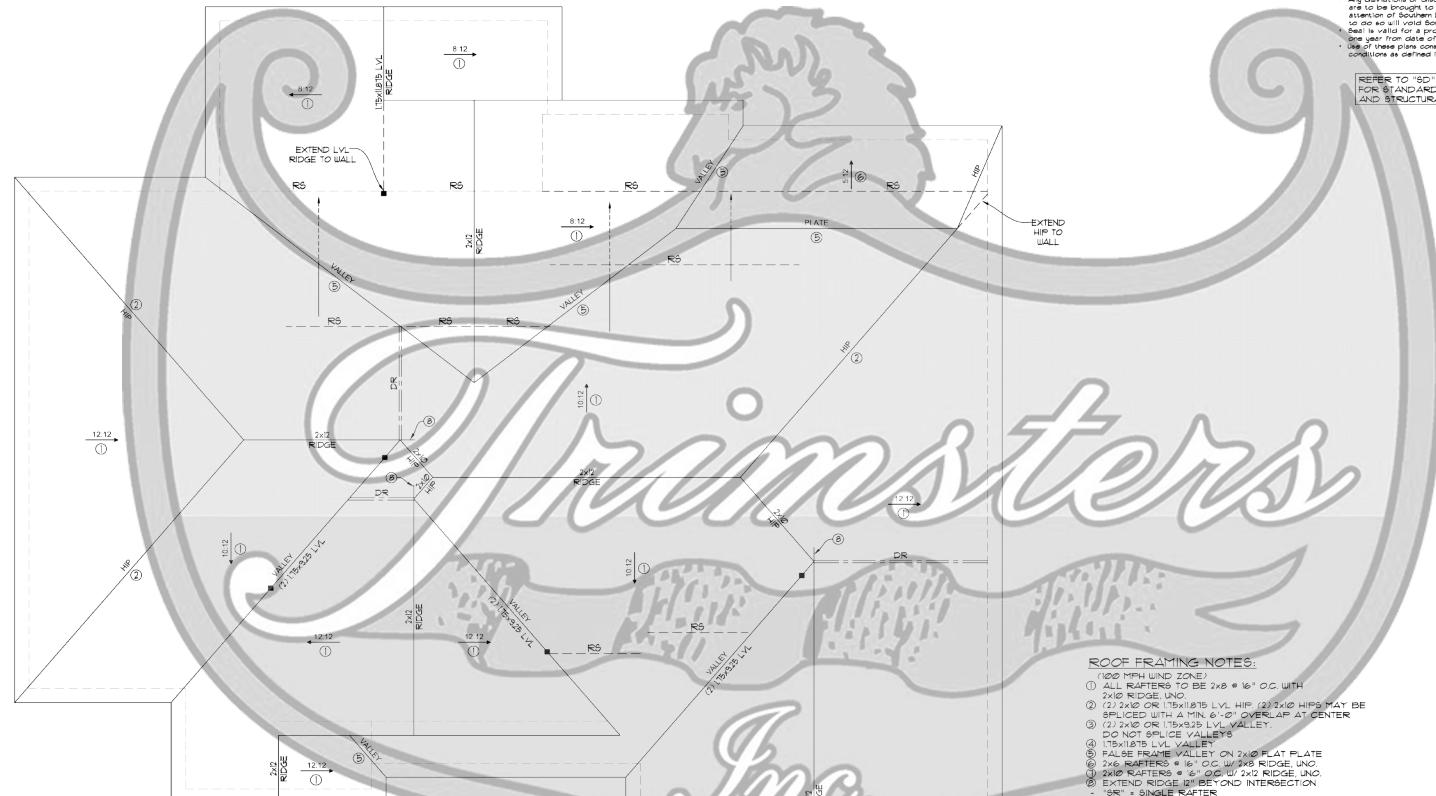
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1ST & 2ND FLOOR  
STRUCTURAL

Sheet Number  
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#### ROOF FRAMING NOTES:

- 1. 100 MPH WIND ZONE
- ① ALL RAFTERS TO BE 2x6 @ 16" O.C. WITH 2x10 RIDGE UNO
- ② (2) 2x10 OR 1" X 8 IN LVL HIPS / (2) 2x6 HIPS MAY BE SPANNED OVER A MIN 6'-0" OVERLAP AT CENTER
- ③ (2) 2x6 OR 1" X 8 IN LVL VALLEY
- DO NOT SPLIT VALLEYS
- DO NOT SPLIT GABLES
- FALSE FRAME VALLEY ON 2x6 FLAT PLATE
- 2x6 RAFTERS @ 16" O.C. W/ 2x8 RIDGE, UNO
- EXTEND RIDGE 12" BEYOND INTERSECTION
- SRI = SINGLE RAFTER
- TR = TRIPLE RAFTER
- RS = ROOT SUPPORT FOR RAFTER SPLICE
- FIR DCLN 2x6 RAFTERS OR USE 2x10 AT CATHEDRAL CEILINGS
- ATTACH VAULTED RAFTERS WITH HURRICANE CLIPS, SIMPSON 14-5 OR EQUIVALENT

Project	15KB-104
Date	7-13-15
Architect	JonesDesigns
Struct	KBB
Area	None
Scale	1/4"=1'-0"

No.	Date	Comments
1		
2		
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4		

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Sheet Number

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Sheet Number	5
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PROJECT	15KB-104
DATE	7-13-15
ARCHITECTURE	JennerDesigns
STRUCTURE	KBB
INTERIOR	None
LANDSCAPE	3/16" = 1'-0"

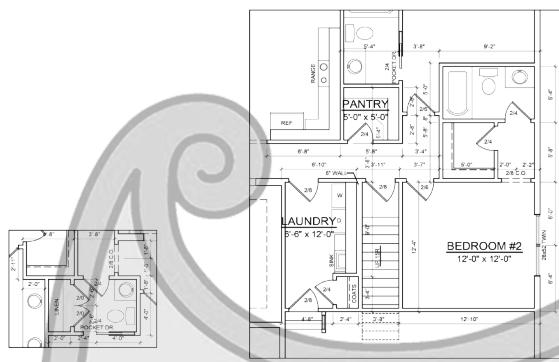
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Office: (919) 302-0693  
Fax: (919) 661-2632

Website: [www.KandAHomeDesigns.com](http://www.KandAHomeDesigns.com)

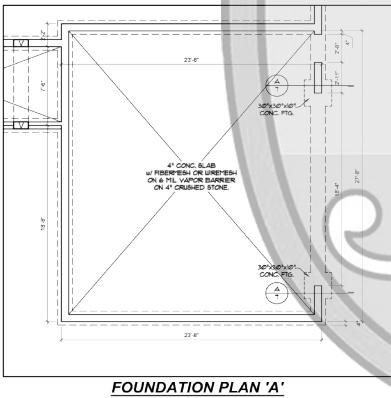


STRUCTURAL DESIGN BY:  
SOUTHERN ENGINEERS, P.A.  
MC 16073  
LICENSING BOARD OF NORTH CAROLINA  
LICENSE: C-128, PHONE: 919-428-1611  
PROJECT: 15KB-104  
Engineering seal applies only to structural components on this document. Seal does not validate other parts of the drawing such as dimensions, sequences, procedures or safety precautions.  
Any changes made to the design or drawings must be referred to the immediate attention of Southern Engineers. Failure to do so can void the engineering seal.  
Seal is valid for a project permitted under local zoning laws and building codes.  
Use of these plans constitutes approval of item 4 conditions as defined in the customer agreement.

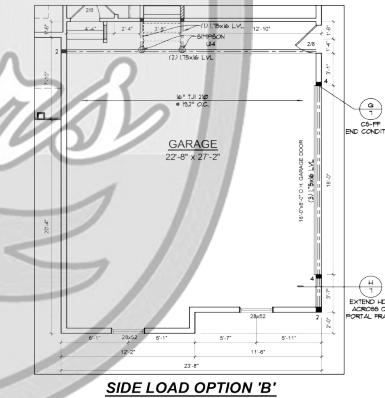
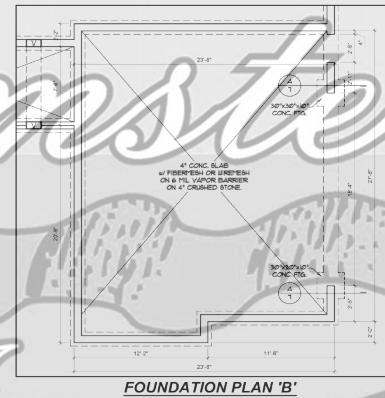
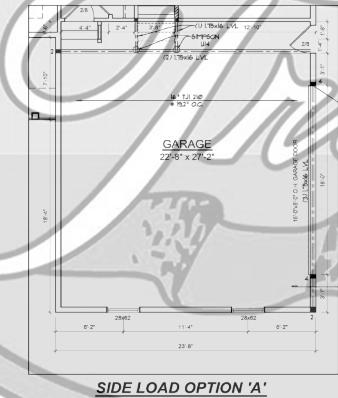
REFER TO SD SHEET(S)  
FOR STANDARD DETAILS  
AND STRUCTURAL NOTES.

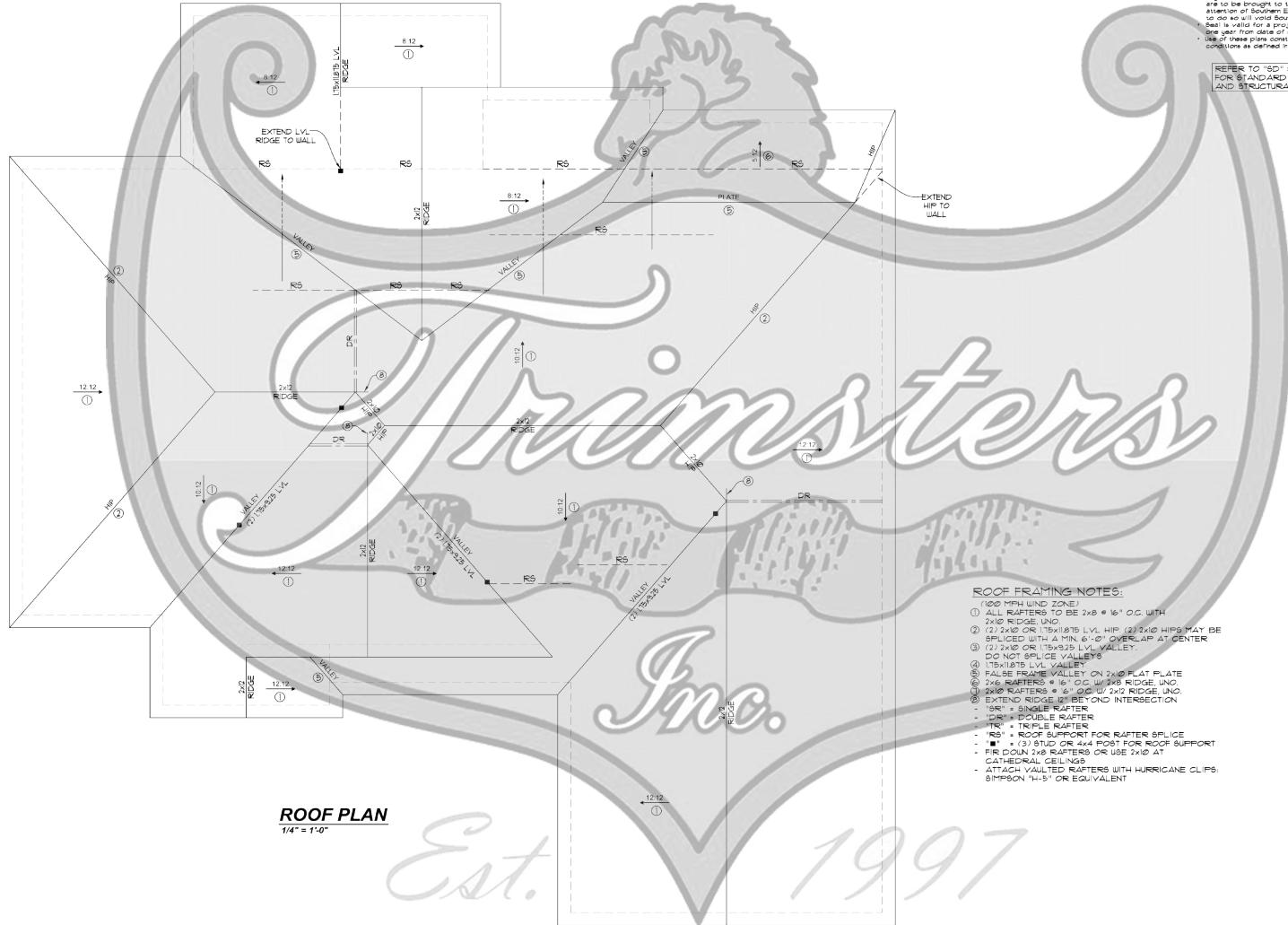


**STUDY BATH OPTION**  
1/4" = 1'-0"  
CEILING HT. = 9'-0"



**LAUNDRY & BEDROOM #2 OPTION**  
1/4" = 1'-0"  
CEILING HT. = 9'-0"





**STRUCTURAL DESIGN BY:**  
**SOUTHERN ENGINEERS, P.A.**  
316 BENSON DR. RALEIGH, NC 27604  
LICENSE #C-187, PHONE: 919-878-1617  
**PROJECT # IT-1057**

- Engineering services relate only to Structural components on this document. Design does not include construction means, methods, techniques, sequences, procedures or safety practices. One or more copies of the engineering drawings shall be brought to the immediate attention of Southern Engineers. Failure to do so may result in loss of liability.
- Seal is valid for a project permit issued within one year from date of seal.
- Use of these plans constitutes approval of terms & conditions as defined in the customer agreement.

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

A circular seal for a professional engineer from North Carolina. The outer ring contains the text "NORTH CAROLINA" at the top and "PROFESSIONAL ENGINEER" at the bottom. In the center, it says "SEAL" above the number "16073". Below the number, the signature "JAMES H. HERMAN" is written, with "P.E." handwritten below his name.

REVISIONS		
No.	Date	Remarks
1		
2		
3		
4		

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ESSENTIALS

Sheet Number