

#### OWNER / CONTRACTOR NOTES:

1. THE SEALING OF THIS PLAN AUTHORIZES THE CONSTRUCTION FROM THESE PLANS FOR ONE HOUSE ON ONE LOT. UNSEALED PLANS MUST NOT BE USED FOR CONSTRUCTION. CONSTRUCTION FROM THESE PLANS MUST BE FROM THE LATEST APPROVED DATE PLANS, INCLUDING REVISIONS AND ADDENDA.

2. CONSTRUCTION DEVIATING FROM THESE PLANS WILL INVALIDATE THEIR PLANS REVIEW PERMITTED USE. THE DESIGNER MUST BE NOTIFIED IMMEDIATELY OF CONSTRUCTION DEVIATING FROM DEPICTED OR IMPLIED INFORMATION HEREIN. LETTEI FROM THE ARCHITECT/ENGINEER MAY BE OBTAINED FOR A FEE TO VERIFY THE FEASIBILITY AND COMPLIABILITY OF ANY CHANGES. HOWEVER, THE OWNER/CONTRACTOR ASSUMES ALL RISK FROM DEVIATING FROM THESE PLANS.

3. DO NOT SCALE DRAWINGS, BUT RATHER INQUIRE OF DESIGNER. REPRODUCTION OF THESE DRAWINGS ARE PROHIBITED UNLESS GRANTED WRITTEN CONSENT FROM DESIGNER.

4. THE OWNER AND/OR CONTRACTOR IS RESPONSIBLE FOR OBTAINING THE FOLLOWIN INFORMATION (NON-EXHAUSTIVE): BUILDING PERMITS. SITE ENGINEERING INCLUDING SURVEYING, TOPOGRAPHIC STUDIES, GEOTECHNICAL REPORTS, AND SEPTIC PERMITS; INTERIOR CASEWORK DESIGN; PLUMBING, MECHANICAL, AND ELECTRICAL DESIGN.

#### BUILDING CODE NOTES

THIS PLAN HAS BEEN DESIGNED UNDER THE 2018 NORTH CAROLINA RESIDENTIAL CODE.

APPLICABLE CODES: N.C. FIRE CODE, 2018 N.C. MECHANICAL CODE, 2018 N.C. PLUMBING CODE, 2018 N.C. ENERGY CODE, 2018 NATIONAL ELECT. CODE, 2017 N.C. GAS CODE 2018

#### **CONSTRUCTION NOTES:**

THE FOLLOWING IS A NON-EXHAUSTIVE LIST OF SOME COMMONLY MISSED CODE REQUIREMENTS AND BOOK FOR MORE INFO.

1. (R308.4) ALL GLAZING WITHIN 24" OF EITHER SIDE OF A DOOR IN A CLOSED POSITION, AND ON THE SAME WALL PLANE SHALL BE TEMPERED. ALL WINDOWS THAT MEET ALL OF THE FOLLOWING CONDITIONS SHALL BE TEMPERED: A) INDIVIDUAL PANES OF MILL 9 S.F., B) BOTTOM EDGE IS WITHIN 18" OF FLOOR, C) TOP EDGE IS AT LEAST 36" ABOVE FLOOR, AND D) GLAZING IS WITHIN 36" HORIZ OF WALKING SURFACE. TEMPERED GLAZING IS ALSO REQUIRED WITHIN 60" OF HOT TUBS OR STAIR LEADING AND FINISH EDGES. TEMPERED WINDOWS ALSO REQUIRED PER REMAINDER OF THIS CODE

2. (R310.1) ALL SLEEPING ROOMS AND BASEMENTS WITH HABITABLE SPACE SHALL HAVE AT LEAST ONE EGRESS WINDOW CONFORMING TO THE FOLLOWING: A) MIN. 4.0 S.F. CLEAR OPENING; B) MIN. TOTAL GLASS AREA OF 5.0 SQ (GROUND FLOOR WINDOW) AND 5.7 S.F. (UPPER STORY WINDOW). IT IS THE CONTRACTOR'S RESPONSIBILITY TO CHOSE THE PROPER CONFORMING WINDOW, AND HAVE EGRESS WINDOWS PROPERLY DISTRIBUTED AND INSTALLED AS REQUIRED.

3. (R311.2) ALL INTERIOR EGRESS DOORS AND A MINIMUM OF ONE EXTERIOR EGRESS DOOR SHALL BE READILY OPENABLE FROM THE EGRESS SIDE WITHOUT USE OF A KEY OR SPECIAL KNOWLEDGE. 4. (R311.7.5) MAXIMUM STAIR RISER HEIGHT SHALL BE 8-1/4", AND MINIMUM TREAD SHALL BE 9".

5. (R314.3) SMOKE ALARMS SHALL BE INSTALLED AND INTERCONNECTED, WITH BATTERY BACK-UP IN THE FOLLOWING AREAS: EACH SLEEPING ROOM; IN THE AREA (HALLWAY) RIGHT OUTSIDE THE SLEEPING ROOMS; AND EACH STORY. THE ONE OUTSIDE THE SLEEPING ROOMS WILL SATISFY THAT

6. (R402.1.2) ALL LUMBER SHALL BE PRESSURE TREATED AND DRIED AFTER TREATMENT IN ACCORDANCE WITH AWPA U1 AND SHALL BEAR THE LABEL OF AN ACCREDITED AGENCY. 7. (R406.1) BITUMINOUS DAMPPROOFING SHALL BE APPLIED TO EXTERIOR FOUNDATIONS OF ALL

HABITABLE AND USABLE (STORAGE, ETC) SPACES. 8. (R408.1.2) INSTALL ONE FOUNDATION VENT WITHIN 3' OF EACH CORNER (NOT ONE EACH SIDE OF

9. (R703.4) FLASH ALL VALLEYS AND WALL/ROOF INTERSECTIONS, AND CHIMNEY AND OTHER ROOF PENETRATIONS. USE ICE AND WATER SHIELD ON ALL ROOFS LESS THAN 4:12 SLOPE. FLASHING TO BE 10. (R807.1) BUILDER TO LOCATE 22"x30" ATTIC ACCESS IN ALL ATTICS WITHOUT STAIR ACCESS.

LOCATE ACCESS TO PROVIDE A 30" CLEAR SPACE ABOVE ACCESS DOOR-TYP

11. (R1001) MASONRY FIREPLACE WALLS TO BE MIN. 8" THICK, AND MIN. 2" TO FRAMING. POURED HEARTHS TO HAVE MIN #4@12" O.C. EACH WAY. HEARTHS TO BE MIN. 20" FROM FIREBOX AND HAVE MIN. 12" WIDER THAN FIREBOX ON EACH SIDE.

12. (R403.1.6) ANCHOR BOLTS SHALL BE MIN. %"DIAMETER & SHALL EXTEND A MINIMUM 7"INTO MASONRY OR CONCRETE. ANCHOR BOLTS TO BE NO MORE THAN 6' O.C. AND WITHIN 12"OF THE CORNER. 13. (R315) INSTALL APPROVED CARBON MONOXIDE ALARM OUTSIDE EACH BEDROOM AND IN IMMEDIATE VICINITY OF EACH SEPARATE SLEEPING AREA.

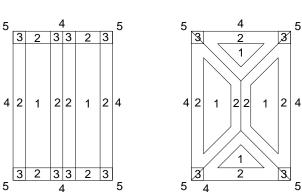
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#### CLIMATIC AND GEOGRAPHIC NOTES:

WIND SPEED (MPH) (FIGURE 301.2.4)  SEISMIC DESIGN CATEGORY  3 SEC. GUST: 115 B WEATHERING FROST LINE TERMITE DECAY  WINTER DESIGN TEMP.	51,000
3 SEC. GUST: 115 B WEATHERING FROST LINE TERMITE DECAY	FLOOD HAZARDS
FASTEST MILE: 120 (REF: FIG. 310.2(2)) MODERATE 12" MOD TO HEAVY MOD. 20	N/A

120 MPH (3-SECOND GUST)
115 MPH (FASTEST MILE)
(Suburban) Wind Load: Basic Wind Speed Exposure Category

Wind Zone Exposure Plans:



					3 = 4	Long (Typ.)		
nponent and Cla	adding Load	ls:						
st Case — 10	s.f. (typ.)						TABLE R30	1.2(2) &
n Roof Hgt.	<u>Up</u>	to 30'	<u>30'-</u>	<u>1" – 35'</u>	<u>35'-</u>	1" - 40'	<u>40'-</u>	1" – 45'
osure Zone	<u>Design</u> <u>Pressure</u>	<u>Uplift</u> <u>Force</u>	<u>Design</u> <u>Pressure</u>	<u>Uplift</u> <u>Force</u>	<u>Design</u> <u>Pressure</u>	<u>Uplift</u> <u>Force</u>	<u>Design</u> <u>Pressure</u>	<u>Uplift</u> <u>Force</u>
e 1:	<u>16.7 psf</u>	<u>-18.0 psf</u>	<u>17.5 psf</u>	<u>-18.9 psf</u>	<u>18.2 psf</u>	<u>-19.6 psf</u>	<u>18.7 psf</u>	<u>-20.2</u> p
e 2:	<u>16.7 psf</u>	<u>-21.0 psf</u>	<u>17.5 psf</u>	<u>-22.1 psf</u>	<u>18.2 psf</u>	<u>-22.9 psf</u>	<u>18.7 psf</u>	<u>-23.5</u> p
e 3:	<u>16.7 psf</u>	<u>-21.0 psf</u>	<u>17.5 psf</u>	<u>-22.1 psf</u>	<u>18.2 psf</u>	<u>-22.9 psf</u>	<u>18.7 psf</u>	<u>-23.5 p</u>
, Zone 4:	<u>18.2 psf</u>	<u>-19.0 psf</u>	<u>19.1 psf</u>	<u>-20.0 psf</u>	<u>19.8 psf</u>	<u>-20.7 psf</u>	20.4 psf	<u>-21.3</u> p
, Zone 5:	<u>18.2 psf</u>	<u>-24.0 psf</u>	<u>19.1 psf</u>	<u>-25.2 psf</u>	<u>19.8 psf</u>	<u>-20.7 psf</u>	20.4 psf	<u>-26.9</u>

\*\*\*All windows shall be labeled to conform with AAMA/WDMA/CSA 101/1.S.2/A440

\*\*\*All windows shall be rated with Impact Glazing if windspeeds are equal to or exceed 145 MPH

## PROJECT DATA:

LEAD DESIGN	PROFESSIONAL:			
<u>DESIGNER</u>	<u>FIRM</u>	NAME	License #	Telephone #
Architectural		Gabe Reyes		(919) 491-5855
Structural		Marc W. Mills, R.A.	7579	(919) 795-3845
Landscape				()
Interiors		=		()
Other		_		()

#### DESIGN DATA:

PROJECT SQUARE FOOTAGES

SQUARE FOOTAGE			
ADDED HEATED =	587		
EXISTING HEATED =	1,006		
TOTAL HEATED =	1,593		
	,		

### BUILDING DATA:

Construction Type: <u>V-B</u> <u>R-3</u> Use Group: Building Height: <u>NEW 15'-6"</u> Number of Stories: \_\_1\_\_ Mean Roof Height: <u>12'-8"</u>

#### Structure:

REV: 03/01/12

Basic Structural System: <u>Bearing Wall</u> Earthquake 🗌 Lateral Design Control: Wind 🛛 2,000 psf (Presumptive) Soil Bearing Capacity:

INDEX OF DRAWINGS:

CS	SHEET NAME		
CS	Cover Sheet		
A-1	Elevations/Sections/Details		
A-2	First Floor Plan		
AS-1	Crawl Foundation Plan/First Floor Framing		
AS-2	Attic Floor Framing /Roof Framing		

STRUCTURAL DESIGN BY MARC W. MILLS, RA DATE SEALED: INVALID IF UNSEALED NORTH CAROLINA LICENSE # 7579

Sig

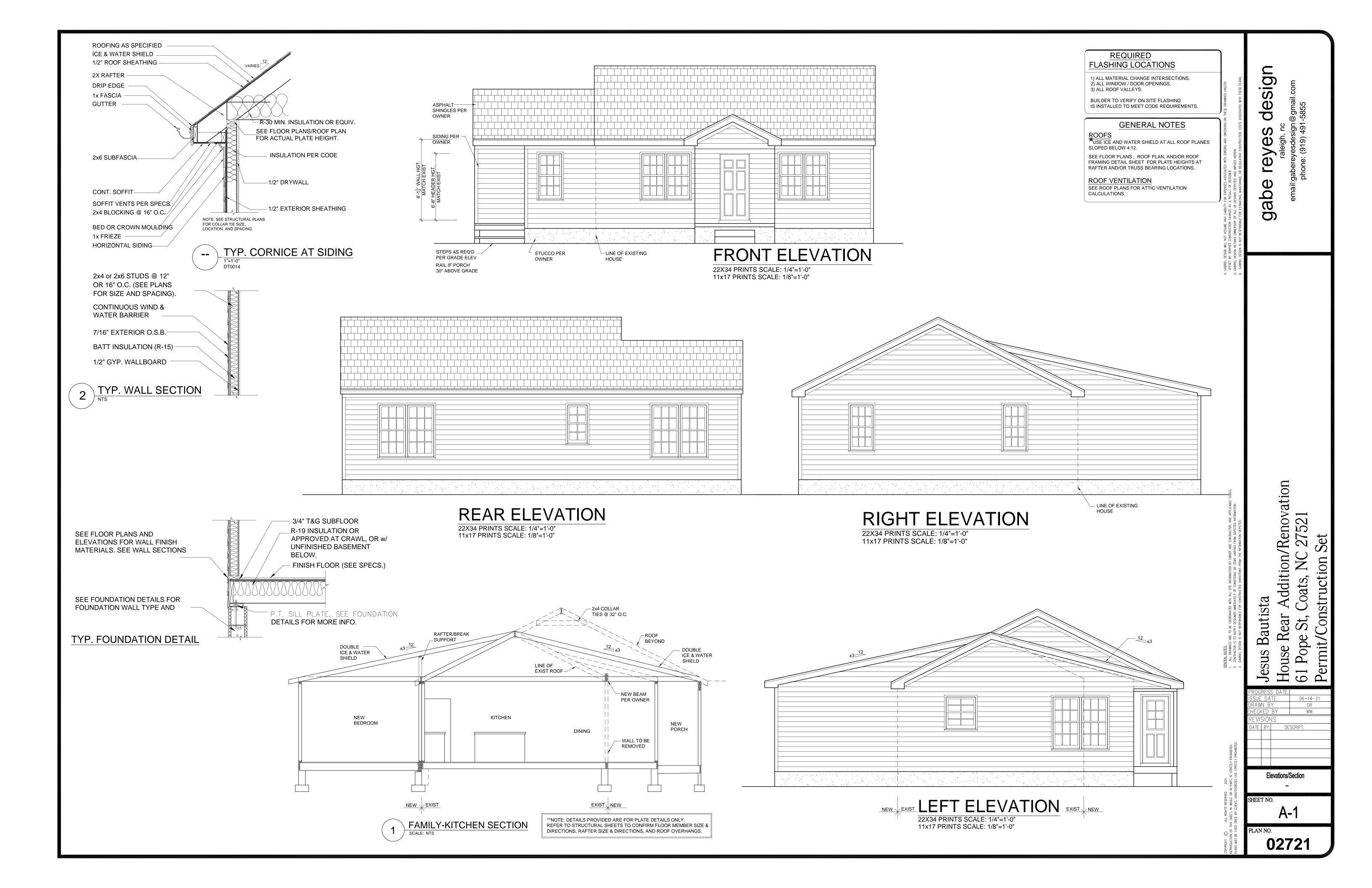
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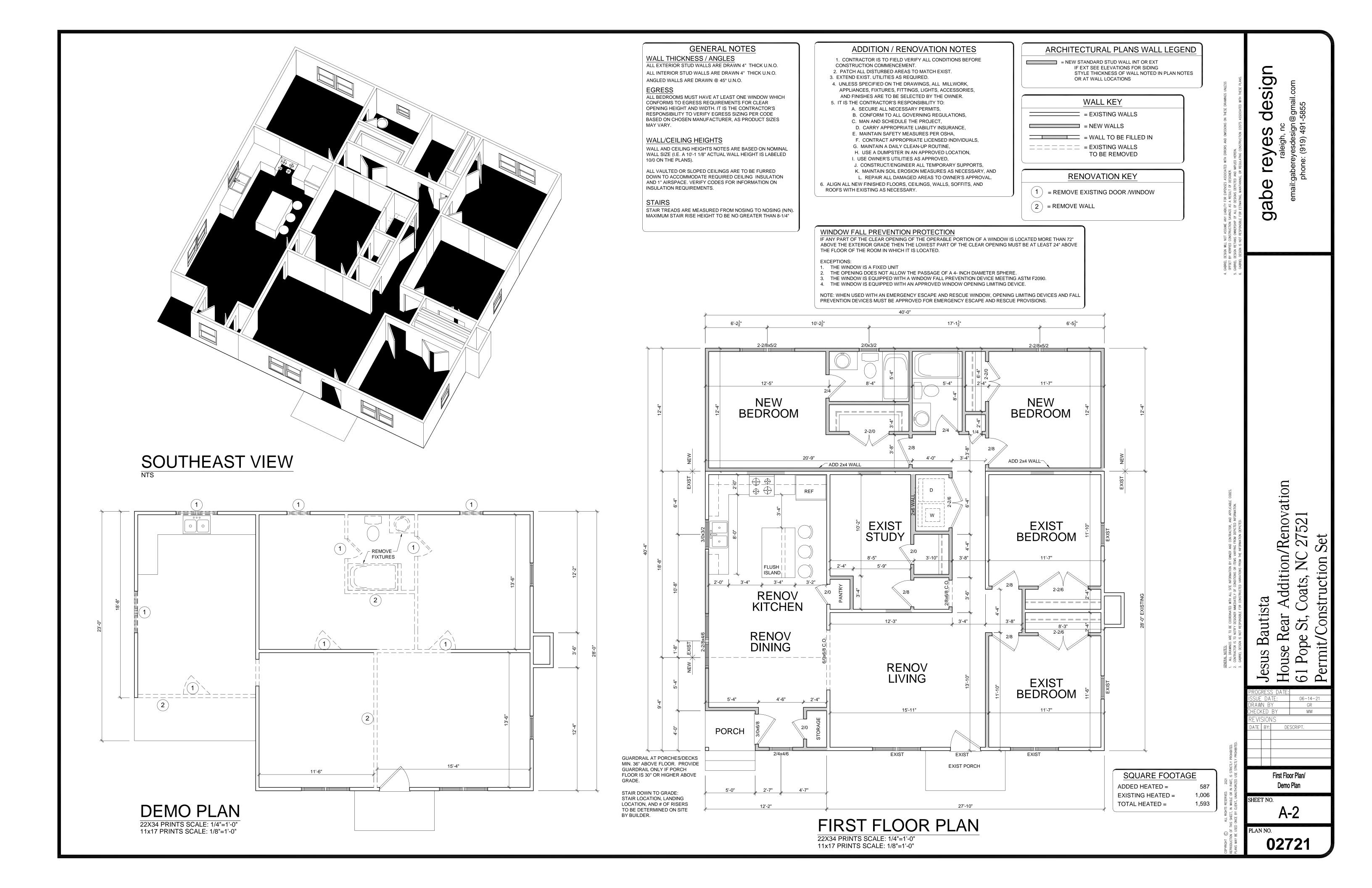
Addition/Renova Coats, NC 27521

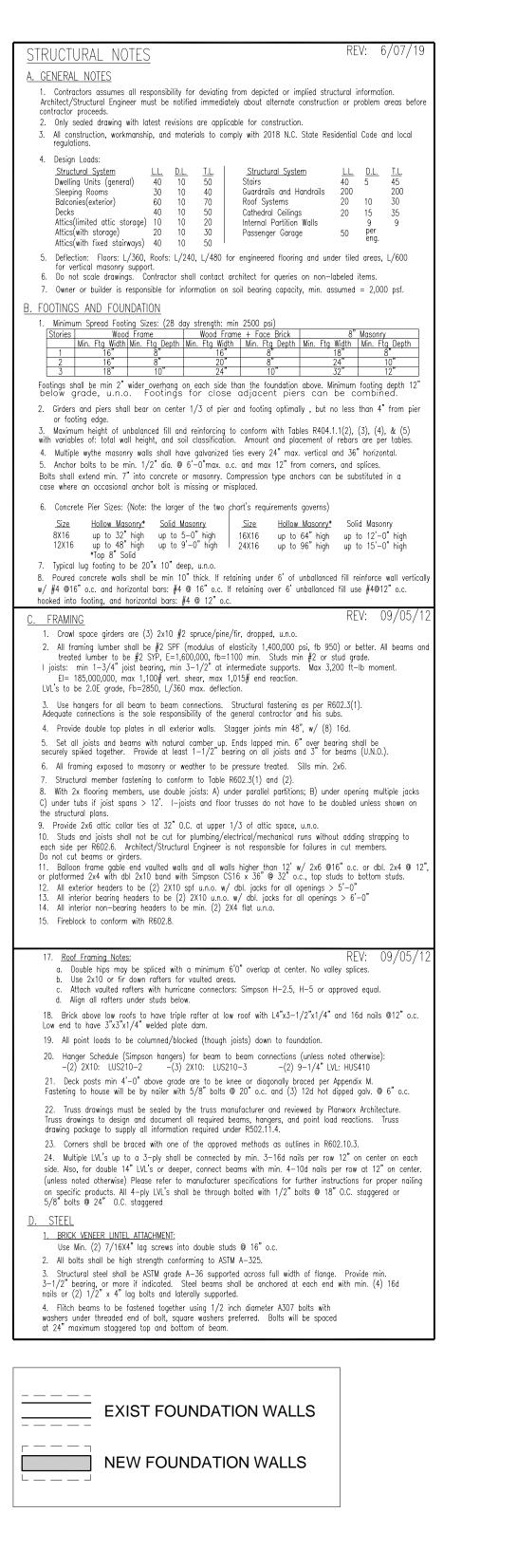
House

DESCRIPT.

Cover Sheet





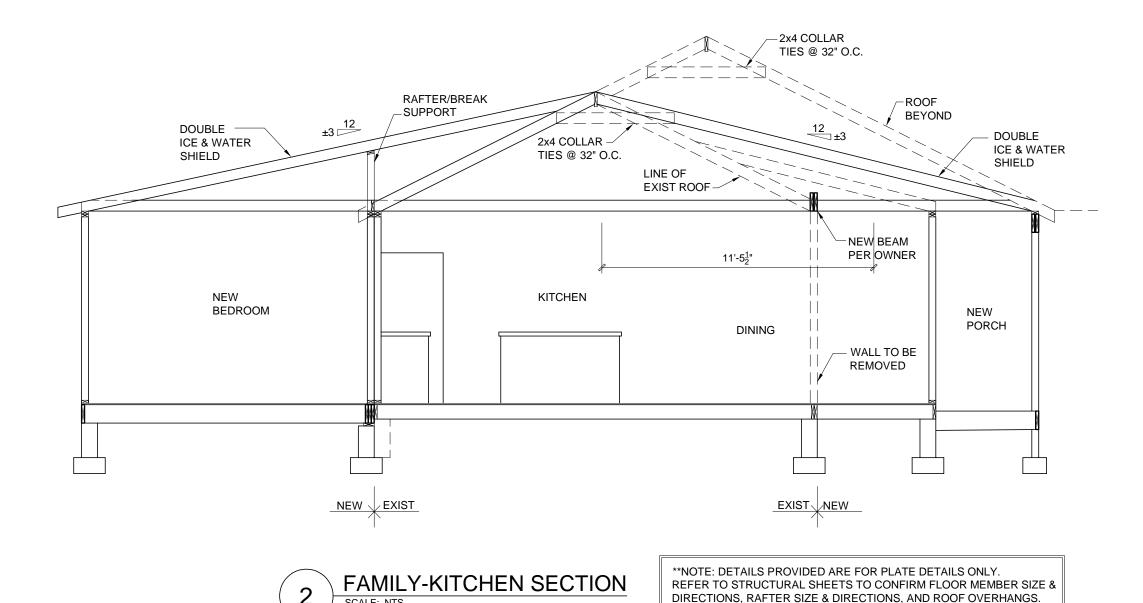


#### **GENERAL FOUNDATION NOTES**

. FOUNDATION WALL SIZES & COMPOSITION MUST BE VERIFIED BY BUILDER AND/OR STRUCTURAL ENGINEER, AND MUST COMPLY WITH N.C. BUILDING CODES.

2. THE SIZE OF CONCRETE PADS AT STEPS TO GRADE FROM PORCHES, DECKS, STOOPS, ETC. IS TO BE DETERMINED BY BUILDER

GENERAL CRAWL SPACE NOTES I. <u>FOUNDATION VENTS</u> **WWW** BUILDER TO SIZE AND LOCATE FOUNDATION VENTS PER N.C. BUILDING CODES. VENT LOCATION AND SPACING SHOWN ON THESE PLANS MAY NOT REFLECT THE FINAL LAYOUT. A VENT MUST BE LOCATED WITHIN 36" OF EACH CORNER.



**BUILDER TO LOCATE NEW CMU ON CONTINUOUS CRAWL ACCESS** MIN 16"x8" CONC. FTG. MIN. 22"x36",(36"x36" ON MIN. 2,000 PSF SOIL FOR HVAC) NEW ─ (3) 2x10 GIRDER EXIST CRAWL EXISTING CURTAIN WALL **NEW 8x16 PIER** ACCESS ON 32"x24"x10" FTG (TYP) \AS-1 (2) #4 REBAR 12" NOTE: CONTRACTOR TO VERIFY NEW LONG w/ EPOXY FLOOR MATCHES EXISTING FLOOR, MORTAR AT FTG. ADJUST NEW FOUNDATION AS REQ'D CONNECTION, TYP. AS REQUIRED OWNER TO **VERIFY IF EXISTING** PIER OR GIRDER UNDER **NEW CRAWL** NEW P.L. (TYP) ACCESS MIN. <u> 18"x24" \_\_</u> \_

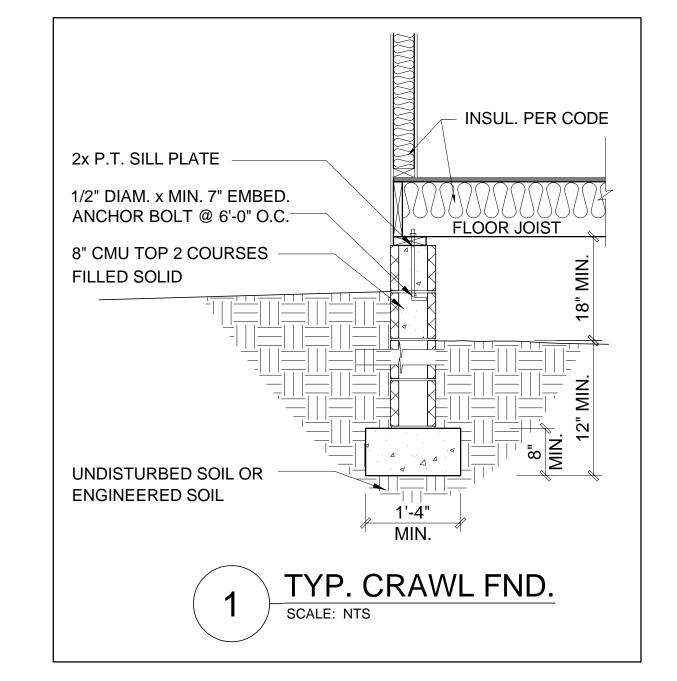
PT (2) 2X8

5'-0"

X.J. = EXTRA JOIST D.J. = DOUBLE JOIST U.W. = UNDER WALL

NOTE:■⊠= INDICATES SIGNIFICANT POINT LOAD, BLOCK SOLID DOWN TO FOUNDATION, PIER, OR SUPPORT BEAM.

NOTE: OWNER/BUILDER TO VERIFY THAT EXISTING STRUCTURE IS ADEQUATE/UP TO CODE TO OWNER/BUILDER TO NOTIFY ARCHITECT/DESIGNER EXISTING STRUCTURE AT THE EXISTING HOUSE SHALL REMAIN OWNER'S LIABILITY. GABE REYES IS NOT LIABLE FOR ANY WORK BEING DONE AT EXISTING HOUSE.



New Crawlspace Vent Calculations				
Α	Crawl Space Area	587		
В	Ventable Area Required by Code (without vapor barrier)	3.9		
С	Number of vents required	8.3		
D	Actual number of vents required	9.0		
Е	Number of vents with vapor barrier reduction	5.0		
	Formulas:			
	B = A / 150			
	C = B / 0.47 (sqft - net venting area per vent)			
	E = D/2			
	Notes:			
	1. Builder must adjust ventilation calculations if using vents			
	with a net area that is different than 0.47 sqft per vent.			
	2. One foundation vent must be placed within 3 feet of each			
	major corner in the building	_		
	3. Foundation vents must be placed to allow for cross ventila	tion		

THESE PLANS ARE SEALED FOR A SINGLE LOT ONLY. STRUCTURAL DESIGN BY MARC W. MILLS, RA DATE SEALED: INVALID IF UNSEALED NORTH CAROLINA LICENSE # 7579

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Addition/Renova Coats, NC 27521 Rear House

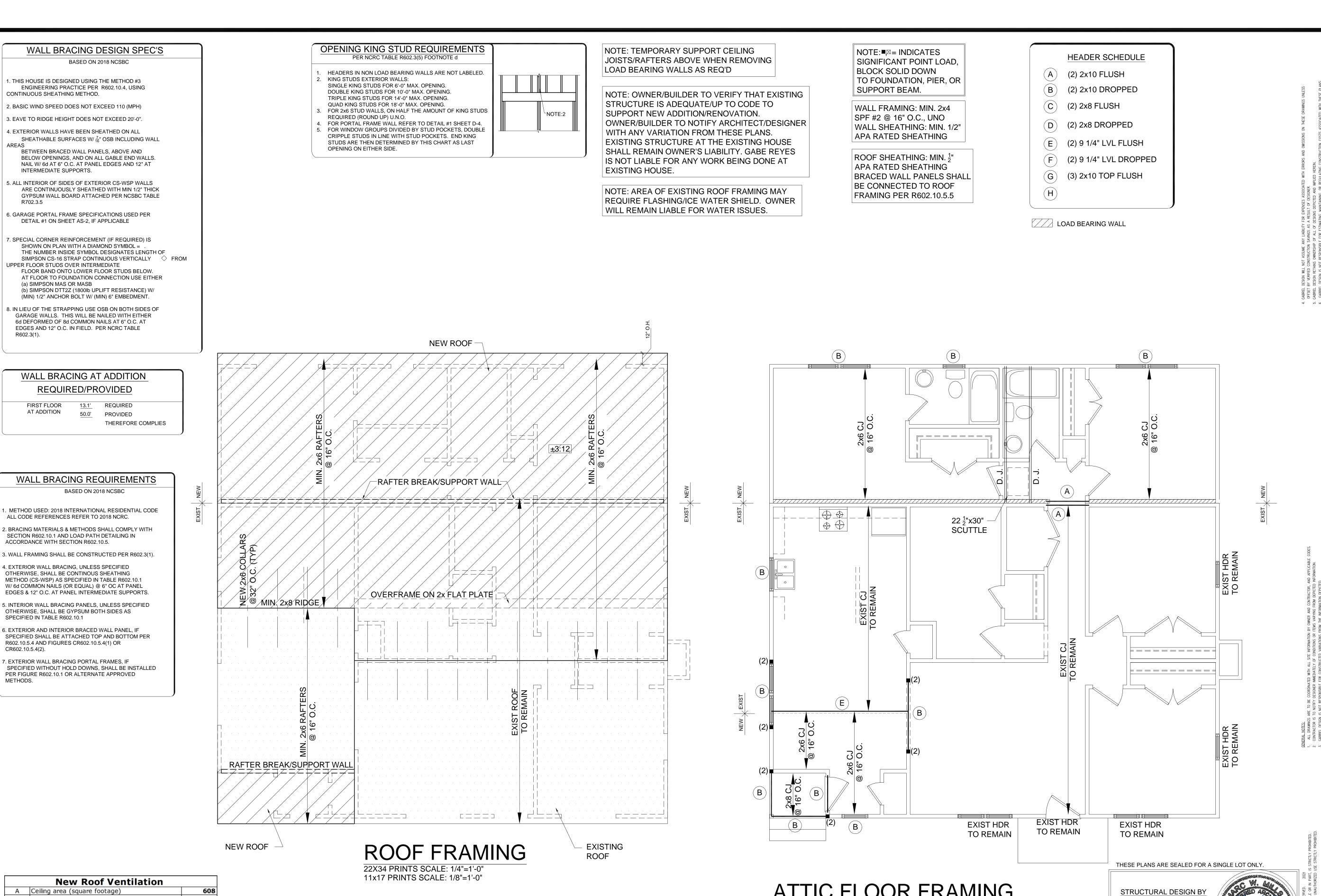
DESCRIPT. Crawl Foundation/ First Floor Framing AS-PLAN NO.

SUPPORT NEW ADDITION/RENOVATION. WITH ANY VARIATION FROM THESE PLANS.

CRAWL FOUNDATION/ FIRST FLOOR FRAMING

22X34 PRINTS SCALE: 1/4"=1'-0"

11x17 PRINTS SCALE: 1/8"=1'-0"



A Ceiling area (square footage) B Sqft. of ventilation required Formulas: B = A / 150Builder to calculate quantities and types of vents to make up the

soffit, and 50% high (gable end or ridge vents).

minimum requirement. Attic ventilation shall be approximately 50%

ATTIC FLOOR FRAMING

22X34 PRINTS SCALE: 1/4"=1'-0" 11x17 PRINTS SCALE: 1/8"=1'-0"

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DESCRIPT. Attic Floor Framing/

Addition/Renovat

Rear

House

Pope

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Roof Framing

AS-2

PLAN NO.