GENERAL NOTES:

- 1. IT IS THE CONTRACTORS RESPONSIBILITY TO VERIFY THAT ALL DIMENSIONS, ROOF PITCHES, AND SQUARE FOOTAGE ARE CORRECT PRIOR TO CONSTRUCTION. K&A HOME DESIGNS, INC. IS NOT RESPONSIBLE FOR ANY DIMENSIONING, ROOF PITCH, OR SQUARE FOOTAGE ERRORS ONCE CONSTRUCTION BEGINS.
- 2. ALL WALLS SHOWN ON THE FLOOR PLANS ARE DRAWN AT 4" UNLESS NOTED
- 3. ALL ANGLED WALL SHOWN ON THE PLANS ARE 45 DEGREES UNLESS NOTED
- 4. STUD WALL DESIGN SHALL CONFORM TO ALL NORTH CAROLINA STATE BUILDING CODE REQUIREMENTS.
- 5. DO NOT SCALE PLANS. DRAWING SCALE MAY BE DISTORTED DUE TO COPIER
- 6. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH NORTH CAROLINA RESIDENTIAL STATE BUILDING CODE, 2018 EDITION.

SQUARE FOOTAGE

HEATED SQUARE FOOTAGE		UNHEATED SQUARE FOOT			
FIRST FLOOR=	1290	GARAGE=	N/A		
SECOND FLOOR=	N/A	FRONT PORCH=	73		
THIRD FLOOR=	N/A	PATIO=	N/A		
BASEMENT=	N/A	DECK=	N/A		
		STORAGE=	N/A		

TOTAL HEATED= 1290 TOTAL UNHEATED= 73

CRAWL SPACE VENTILATION CALCULATIONS

-VENT LOCATIONS MAY VARY FROM THOSE SHOWN ON THE PLAN BUT SHOULD BE PLACED TO PROVIDE ADEQUATE VENTILATION AT ALL POINTS TO PREVENT DEAD AIR POCKETS.

-100% VAPOR BARRIER MUST BE PROVIDED WITH 12" MIN. LAP JOINTS.

-THE TOTAL AREA OF VENTILATION OPENINGS MAY BE REDUCED TO 1/1500 AS LONG AS REQUIRED OPENINGS ARE PLACED SO AS TO PROVIDE CROSS-VENTILATION OF THE SPACE. THE INSTALLATION OF OPERABLE LOUVERS SHALL NOT BE PROHIBITED. (COMPLY WITH NC CODE MIN. WITH REGARD TO VENT PLACEMENT FROM CORNERS)

SQ. FT. OF CRAWL SPACE/1500 1290

0.86

SQ. FT. OF REQUIRED VENTILATION

VENTS AT 0.45 SQ. FT. NET FREE VENTILATION EACH= 1.35 SQ. FT. OF VENTILATION

**FOUNDATION DRAINAGE- WATERPROOFING PER SECTIONS 405 & 406.

ATTIC VENTILATION CALCULATIONS

- CALCULATIONS SHOWN BELOW ARE BASED ON VENTILATORS USED AT LEAST 3 FT. ABOVE THE CORNICE VENTS WITH THE BALANCE OF VENTIALTION PROVIDED BE EAVE VENTS.
- CATHEDRAL CEILINGS SHALL HAVE A MIN. 1" CLEARANCE BETWEEN THE BOTTOM OF THE ROOF DECK AND THE INSULATION.

1363 SQ. FT. OF ATTIC/300=

EACH OF INLET AND OUTLET REQUIRED.

*WALL AND ROOF CLADDING DESIGN VALUES

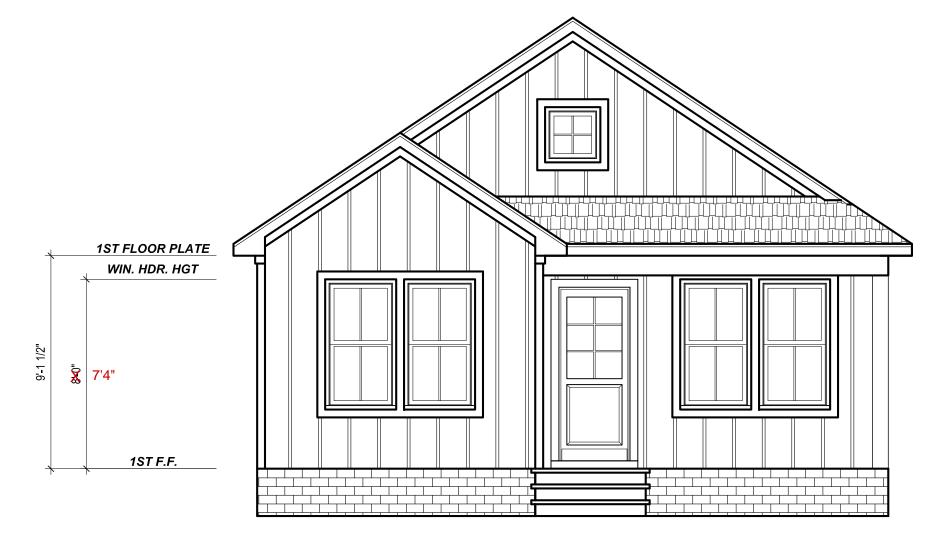
- WALL CLADDING IS DESIGNED FOR A 24.1 SQ. FT. OR GREATER POSITIVE AND NEGATIVE PRESSURE.
- ROOF VALUES BOTH POSITVE AND NEGATIVE SHALL BE AS FOLLOWS:

45.5 LBS. PER SQ. FT. FOR ROOF PITCHES OF 0/12 TO 2.25/12

34.8 LBS. PER SQ. FT. FOR ROOF PITCHES OF 2.25/12 TO 7/12

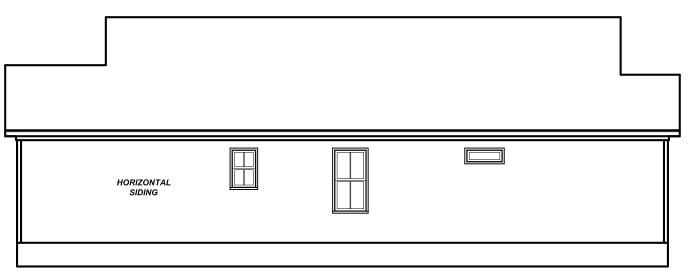
21 LBS. PER SQ. FT. FOR ROOF PITCHES OF 7/12 TO 12/12

** MEAN ROOF HEIGHT 30' OR LESS



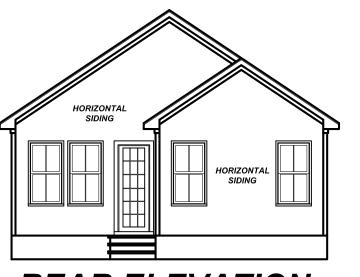
FRONT ELEVATION

1/4" = 1'-0"



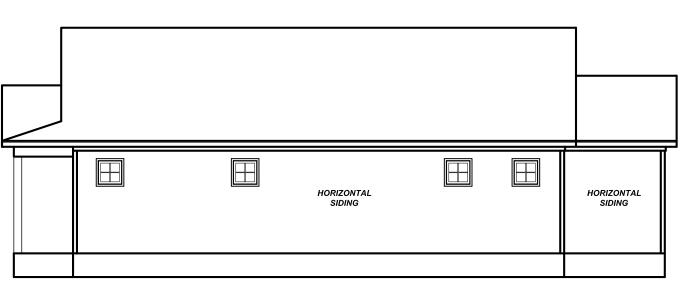
LEFT ELEVATION

1/8" = 1'-0"



REAR ELEVATION

1/8" = 1'-0"



RIGHT ELEVATION

1/8" = 1'-0"

24-357 Date: 10-8-24 KBB Scale: REFER TO ELEV.

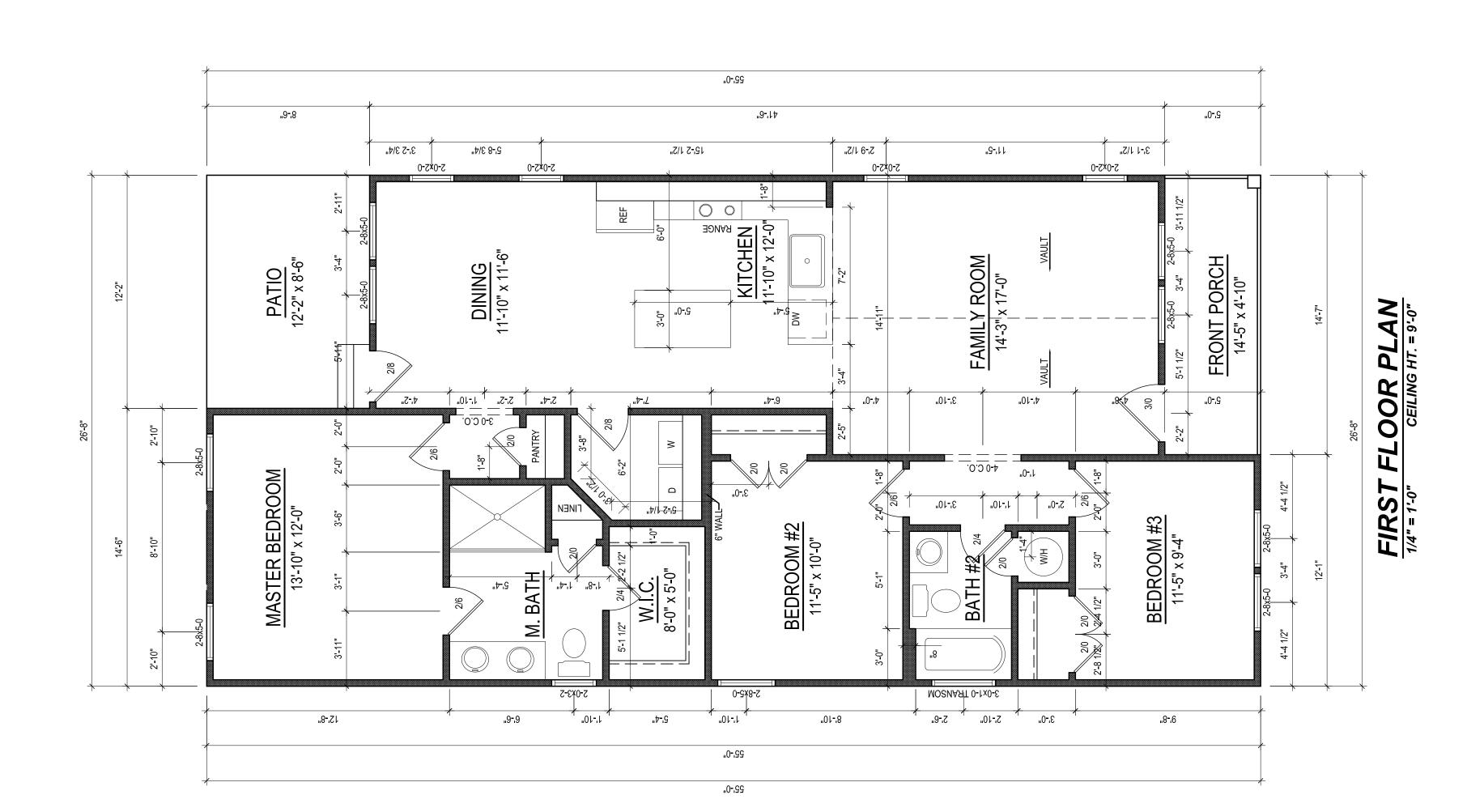
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1					
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9101 Ten-Ter Raleigh, NC 2 Office: (919) (

Hidd

Kenneth McGlothiin
Construction, INC
97 Shooting Star Lane

ELEVATIONS



Project #: 24-357 Date: 10-8-24 Drawn/Design By:
KBB
Scale:
1/4"=1'-0" REVISIONS Remarks No. <u>Date:</u>

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

HOME DESIGNIA

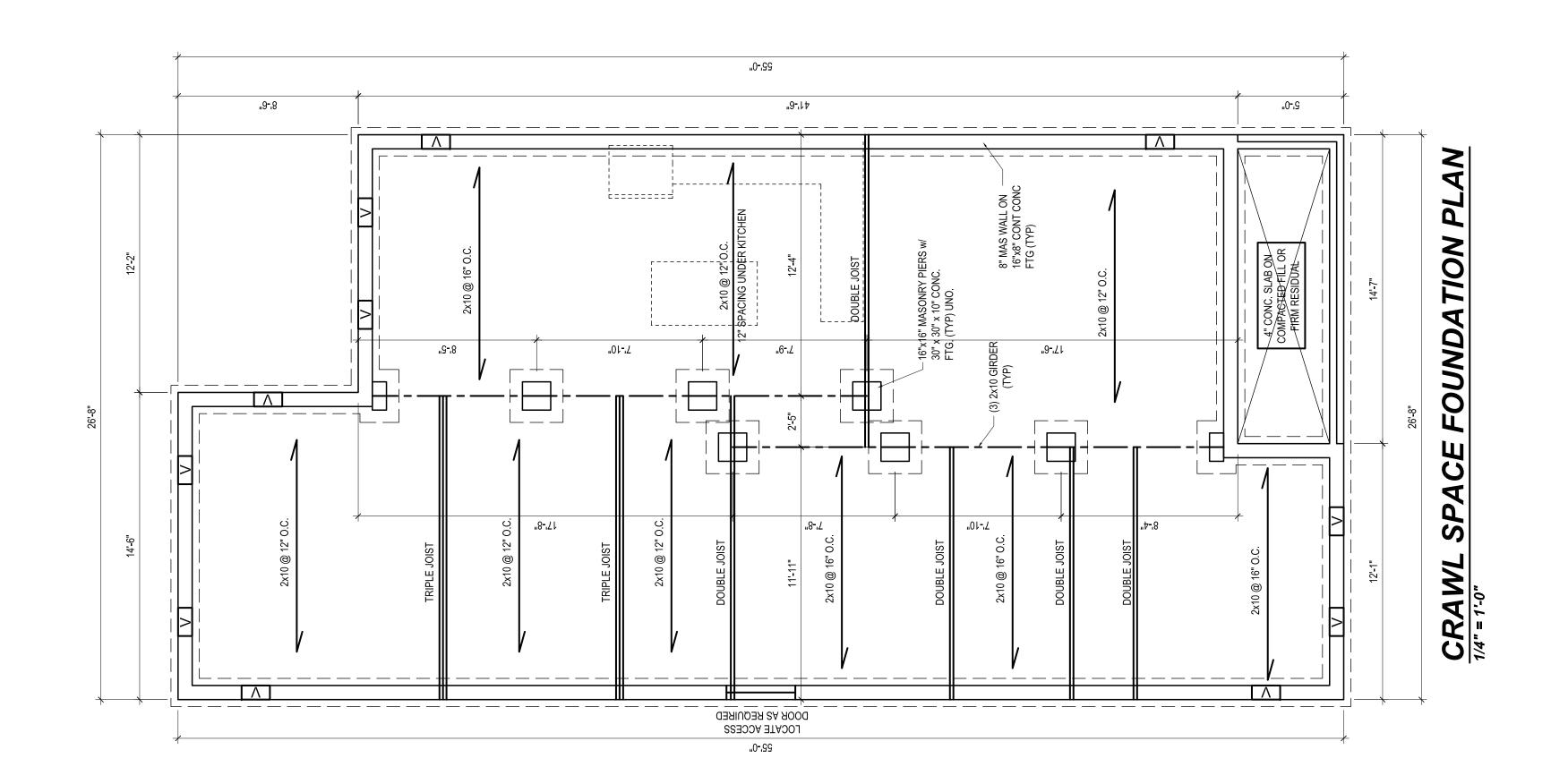
Website: www.KandAHomeDesigns.com

Email: Kent@KandAHomeDesigns.com

Creek Hidden

Kenneth McGlothlin
Construction, INC
97 Shooting Star Lane
Fuquay-Varina, NC 27526

FIRST FLOOR



* Engineers seal does not includ construction means, methods, techniques,

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Creek

Hidden

Project #:
24-196

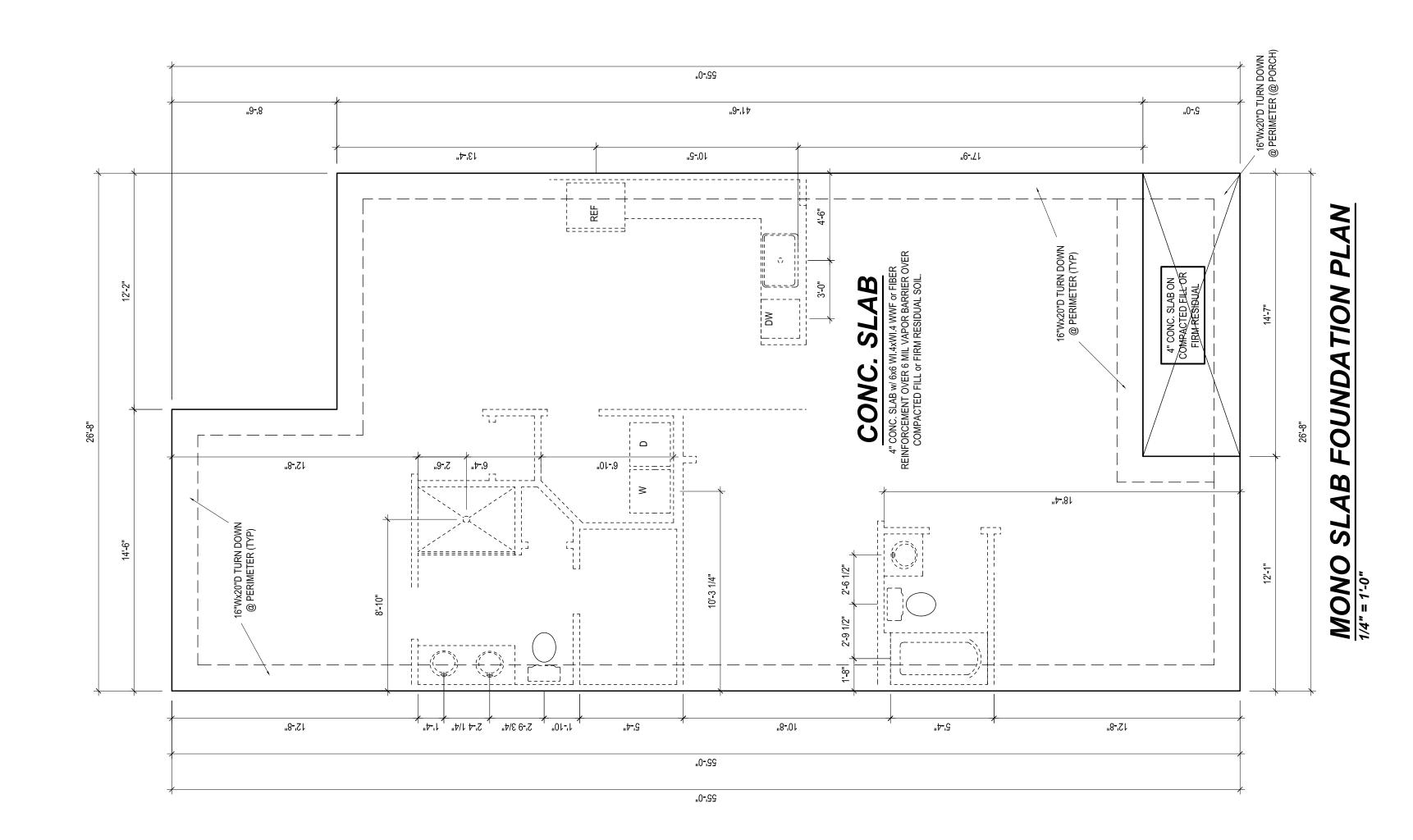
Date:
11-11-24

Drawn/Design By:
MEJ

Scale:
1/4"=1'-0"

Service Control	RI	EVISIONS
No.	Date:	Remarks
1		
2		
3		
4		10.00

CRAWL FND



Mark E. Jones, PE 6425 Glen Dean Court Raleigh, NC 27603 (919) 395-5618

* Engineers seal does not include construction means, methods, techniques,

means, methods, techniques, sequences, procedures or safety precaution.

* Any deviations or discrepancies on plans are to be brought to the immediate attention of Mark E. Jones, PE. Faillure to do so will void Mark E. Jones, PE liability.

* Please review these documents carefully.

Mark E. Jones, PE will interpret that all dimensions, recommendations, etc. presented in these documents were deemed acceptable once cynstruction

Hidden Creek Raleigh

Kenneth McGlothlin Construction, INC 97 Shooting Star Lane Fuquay-Varina, NC 27526

Project #:
24-196

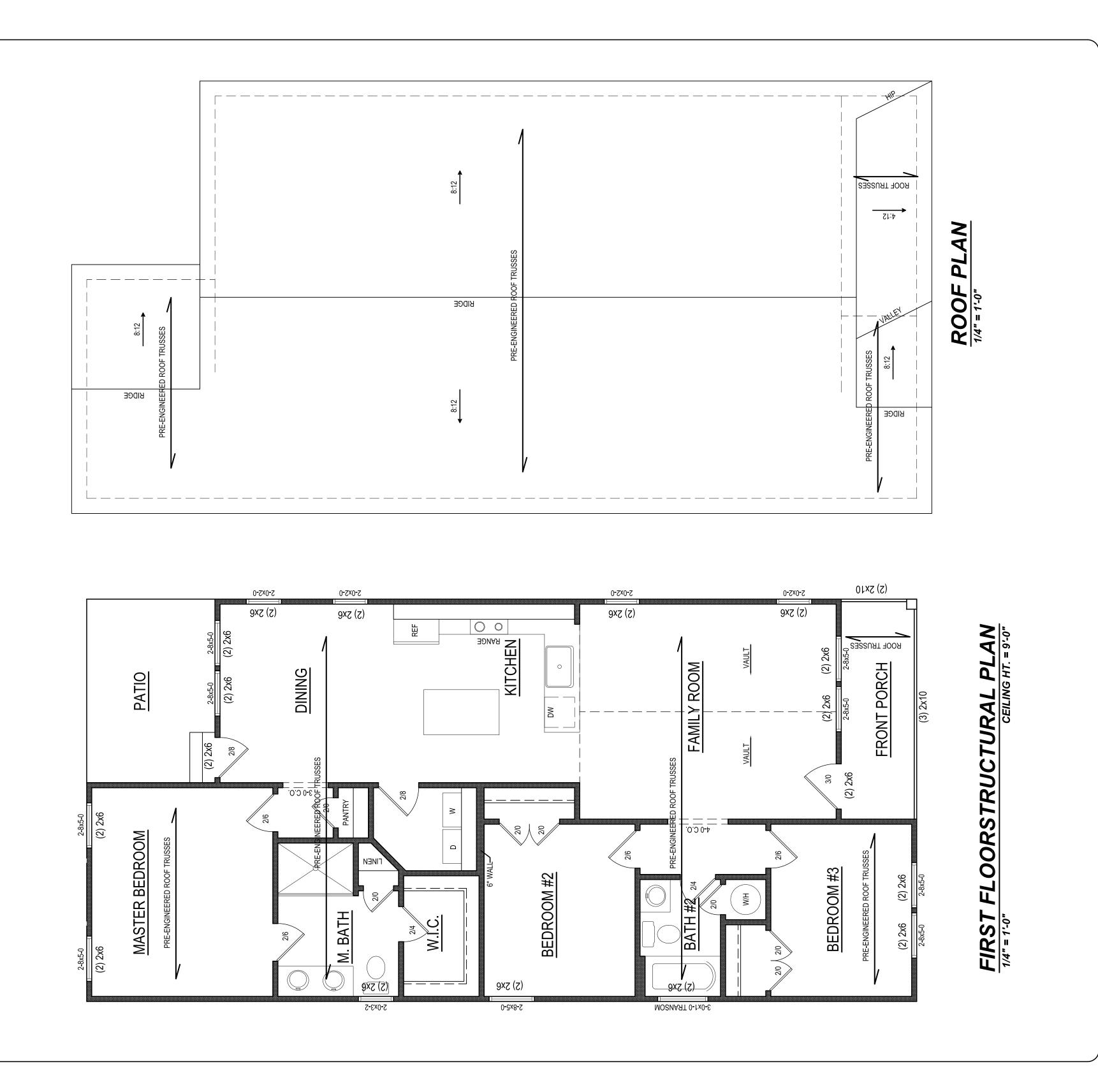
Date:
11-11-24

Drawn/Design By:
MEJ

Scale:
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SLAB FND FND



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11-11-24 CNGINEER E JONESHI

> Mark E. Jones, PE 6425 Glen Dean Court Raleigh, NC 27603 (919) 395-5618

> > Creek

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Kenneth McGlothlin
Construction, INC
97 Shooting Star Lane
Fuquay-Varina, NC 27526

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Date:
11-11-24
Drawn/Design By:
MEJ
Scale:
1/4"=1'-0"

REVISIONS

STRUC_ROOF

Sheet Number

S3

Remarks

recommendations, etc. presented in these documents were deemed acceptable once

1) ALL CONSTRUCTION SHALL CONFORM TO THE LATEST REQUIREMENTS OF "NORTH CAROLINA STATE 2018 RESIDENTIAL BUILDING CODE", IN ADDITION TO ALL LOCAL CODES AND REGULATIONS.

2) DESIGN LOADS:

	LIVE LOAD (PSF)	DEAD LOAD (PSF)	DEFLECTION (DL & LL)	
ALL FLOORS	40	10	L/360	
ATTIC (pull down access)	20	10	L/240	
ATTIC (no access)	10	5	L/240	
EXTERNAL BALCONY	60	10	L/360	
ROOF	20	10	L/180	
ROOF TRUSS	20	20	L/240	
WIND LOAD	[BASED ON 115 MPH (3-second gusts)]			

3) MINIMUM ALLOWABLE SOIL BEARING PRESSURE = 2000 PSF

4) CONCRETE SHALL HAVE A MINIMUM 28 DAY STRENGTH OF 3000 PSI AND A MAXIMUM SLUMP OF FIVE INCHES UNLESS NOTED OTHERWISE (UNO).

5) MAXIMUM DEPTH OF UNBALANCED FILL AGAINST FOUNDATION WALLS TO BE LESS THAN 4-0" WITHOUT USING SUFFICIENT WALL BRACING. REFER TO SECTION R404 OF 2018 NC BUILDING CODE FOR BACKFILL LIMITATIONS BASED ON WALL HEIGHT, WALL THICKNESS, SOIL TYPE, AND UNBALANCED BACKFILL HEIGHT

6) ALL FRAMING LUMBER SHALL BE SYP #2 (Fb = 800 PSI) UNO.

ALL FRAMING LUMBER EXPOSED TO THE ELEMENTS SHALL BE TREATED MATERIAL.

7) ALL LOAD BEARING HEADERS SHALL BE (2)2x10 (UNO). ALL WINDOW AND DOOR HEADERS SHALL BE SUPPORTED BY
(1) JACK STUD AND (1) KING STUD AT EACH END UNLESS NOTED. ALL OTHER BEAMS SHALL BE SUPPORTED BY 2 STUDS
OR THE AMOUNT OF STUDS REQUIRED FOR FULL BEARING AT EACH END UNLESS NOTED. POINT LOADS (STIFF KNEES, ETC.)
SHALL CONSIST OF 2 STUDS UNLESS NOTED. ALL SUPPORTS OF 2 STUDS OR MORE SHALL BE TRANSFERRED THROUGH
EACH FLOOR TO THE FOUNDATION.

8) ALL EXTERIOR WALLS TO BE SHEATHED WITH MIN. 7/16" WOOD STRUCTURAL PANELS FASTNED WITH 8D NAILS 6" O.C. AT EDGES AND 12" O.C. AT INT. SUPPORTS. BLOCKING SHALL BE INSTALLED IF LESS THAN 50 PERCENT OF THE WALL LENGTH IS SHEATHED. WHERE BLOCKING IS REQ'D, ALL PANELS SHALL BE FASTENED AT 3" O.C AT EDGES AND 6" O.C. AT INT. SUPPORTS.

9) ALL STRUCTURAL STEEL SHALL ASTM A-36. 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 AND 4" LONG). LATERAL SUPPORT IS CONSIDERED ADEQUATE PROVIDING THE JOISTS ARE TOE NAILED TO THE SOLE PLATES, AND THE SOLE PLATES ARE NAILED OR BOLTED TO THE BEAM FLANGES @ 48" O.C.

10) ANCHOR BOLT PLACEMENT PER SECTION R403.1.6. 1/2" DIAMETER ANCHOR BOLTS SPACED AT 6'-0" O/C AND PLACED 12" FROM THE END OF EACH PLATE SECTION

11) FOUNDATION DRAINAGE-DAMP PROOFING OR WATERPROOFING PER SECTION 405 AND 406 OF 2018 NC BUILDING CODE

12) WALL AND ROOF CLADDING VALUES:

WALL CLADDING SHALL BE DESIGNED FOR A 24.1 SQ.FT. OR GREATER POSITIVE AND NEGATIVE PRESSURE

ROOF VALUES BOTH POSITIVE AND NEGATIVE SHALL BE AS FOLLOWS: 45.5 LBS/SQFT FOR ROOF PITCHES OF 0/12 TO 2.25/12

34.8 LBS/SQFT FOR ROOF PITCHES OF 2.25/12 TO 7/12

21.0 LBS/SQFT FOR ROOF PITCHES OF 7/12 TO 1/12

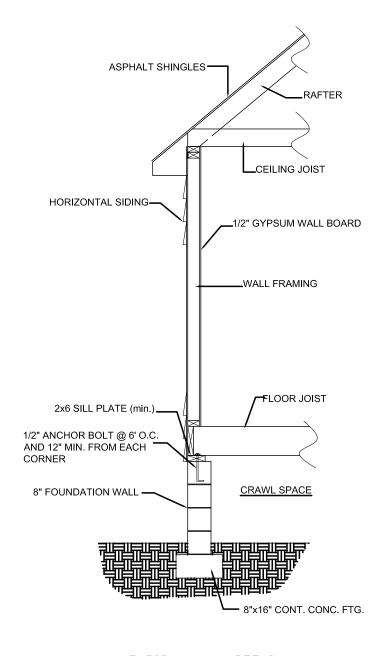
** MEAN ROOF HEIGHT 30' OR LESS

13) FOR ROOF SLOPES FROM 2:12 THROUGH 4:12, BUILDER TO INSTALL 2 LAYERS OF 15# FELT PAPER

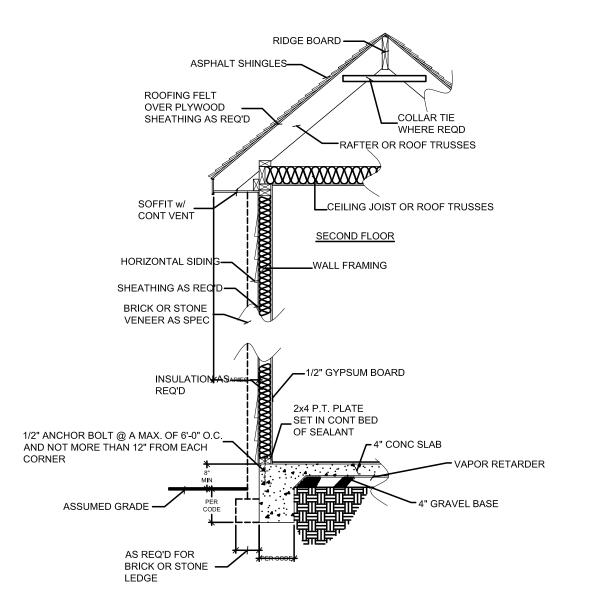
14) IT IS THE CONTRACTOR'S RESPONSIBLITY TO VERIFY ALL DIMENSIONS AND SQ. FTG. ARE CORRECT PRIOR TO CONSTRUCTION.

DESIGNER IS NOT RESPONSIBLE FOR DIMENSIONING OR SQ. FTG. ERRORS ONCE CONSTRUCTION BEGINS

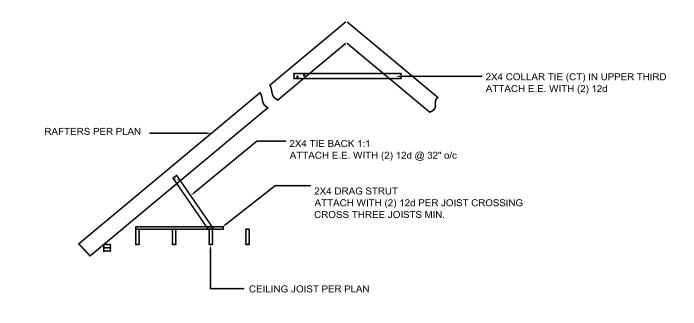
CLIMATE ZONE	MAXIMUM	MINIMUM INSULATION R-VALUE					
	GLAZING U-FACTOR	CEILINGS	WALLS	FLOORS	BASEMENT WALLS	SLAB PERIMETER	CRAWL SPACE WALLS
3	.35	R-38 or R-30	R-15	R-19	R-5/13	R-0	R-5/13
4	.35	R-38 or R-30	R-15	R-19	R-10/15	R-10	R-10/15

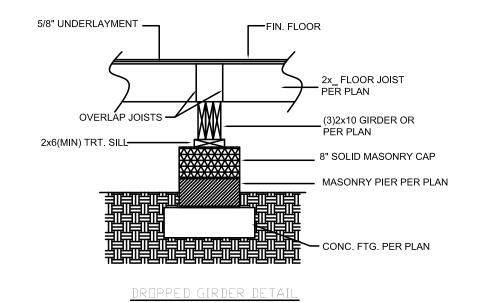


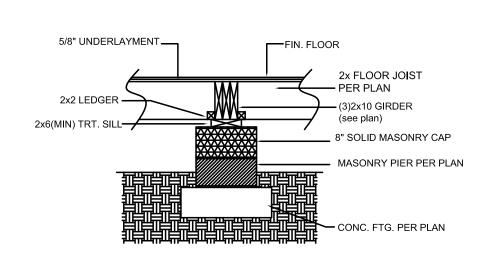
TYPICAL WALL DETAIL



TYPICAL WALL DETAIL







FLUSH GIRDER DETAIL

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NOTICE STATEMENT OF THE S

Mark E. Jones, PE 6425 Glen Dean Court Raleigh, NC 27603 (919) 395-5618

Hidden Creek

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1/4"=1'-0"

 REVISIONS

 No.
 Date:
 Remarks

 1
 2

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DETAILS

Sheet Number

S4

of 4