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 OTHERWISE.
- 3. ALL ANGLED WALL SHOWN ON THE PLANS ARE 45 DEGREES UNLESS NOTED OTHERWISE.
- 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 IMPERFECTIONS.
- 6. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH NORTH CAROLINA RESIDENTIAL STATE BUILDING CODE, 2018 EDITION.

SQUARE FOOTAGE

HEATED SQUARE I	FOOTAGE	UNHEATED SQUARE FOOTAGE
FIRST FLOOR=	1421	GARAGE= N/A
SECOND FLOOR=	N/A	FRONT PORCH= 110
THIRD FLOOR=	N/A	SCREEN PORCH= N/A
BASEMENT=	N/A	DECK= N/A
		STORAGE= N/A
TOTAL HEATED=	<u> 1421</u>	TOTAL UNHEATED= 110

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)

1421 SQ. FT. OF CRAWL SPACE/1500

SQ. FT. OF REQUIRED VENTILATION

PROVIDED BY: 3 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.

1531 SQ. FT. OF ATTIC/300= 5.1

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:

 $45.5\,\mathrm{LBS}.$ 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 $\,$

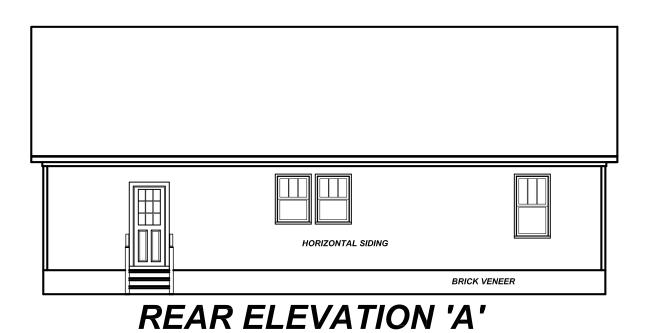
21 LBS. PER SQ. FT. FOR ROOF PITCHES OF 7/12 TO 12/12

** MEAN ROOF HEIGHT 30' OR LESS

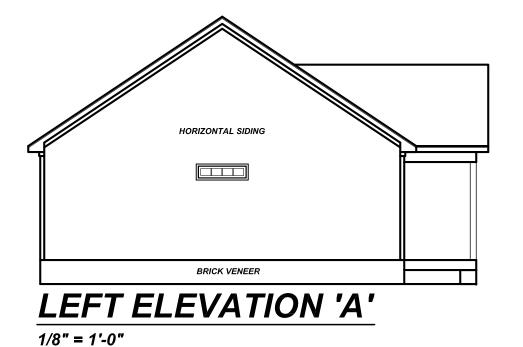


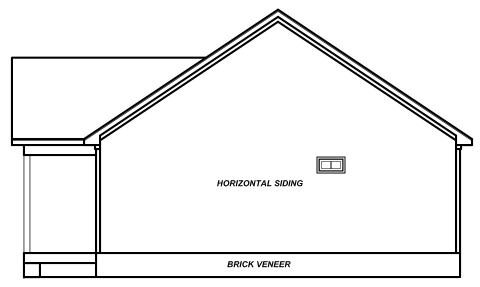
FRONT ELEVATION 'A'

1/4" = 1'-0"



1/8" = 1'-0"





RIGHT ELEVATION 'A'

1/8" = 1'-0"

Project #:
23-379

Date:
9-11-23

Drawn/Design By:
KBB

Scale:
REFER TO ELEV.

REVISIONS

1 Remarks

1 2

9101 Ten-Ten Rd. Raleigh, NC 27603 Office: (919) 302-069



Deep Cree

ontstruction INC. Shooting Star Lane Lay-Varina, NC 2752

ELEVATIONS

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GENERAL NOTES:

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SQUARE FOOTAGE

<u>HEATED SQUARE F</u>	OOTAGE	UNHEATED SQUARE FO	<u>OOTAGE</u>
FIRST FLOOR=	1421	GARAGE=	N/A
SECOND FLOOR=	N/A	FRONT PORCH=	110
THIRD FLOOR=	N/A	SCREEN PORCH=	N/A
BASEMENT=	N/A	DECK=	N/A
		STORAGE=	N/A
TOTAL HEATED=	<u> 1421</u>	TOTAL UNHEATED=	<u>110</u>

CRAWL SPACE VENTILATION CALCULATIONS

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SQ. FT. OF REQUIRED VENTILATION

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

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SQ. FT. OF ATTIC/300=

EACH OF INLET AND OUTLET REQUIRED.

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

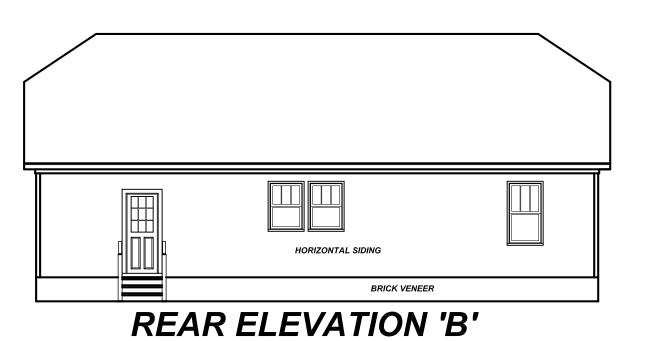
21 LBS. PER SQ. FT. FOR ROOF PITCHES OF 7/12 TO 12/12

** MEAN ROOF HEIGHT 30' OR LESS

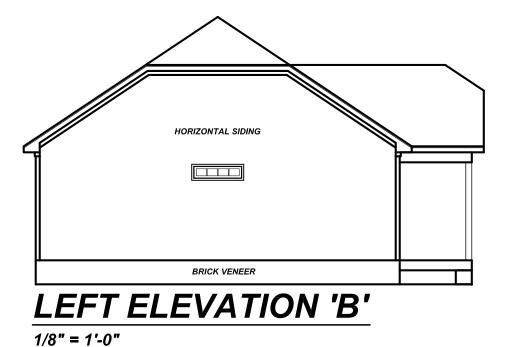


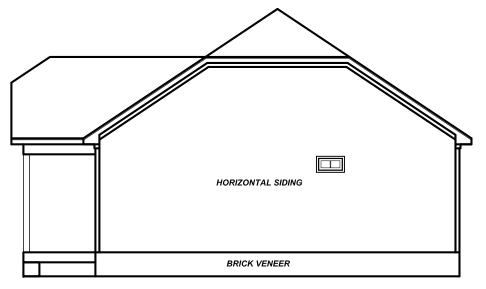
FRONT ELEVATION 'B'

1/4" = 1'-0"



1/8" = 1'-0"





RIGHT ELEVATION 'B'

1/8" = 1'-0"

23-379 <u>Date:</u> 9-11-23 KBB Scale: REFER TO ELEV.

9101 Ter Raleigh, Office: (9



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ELEVATIONS

Project #: 23-379

<u>Date:</u> 9-11-23

Drawn/Design By: KBB

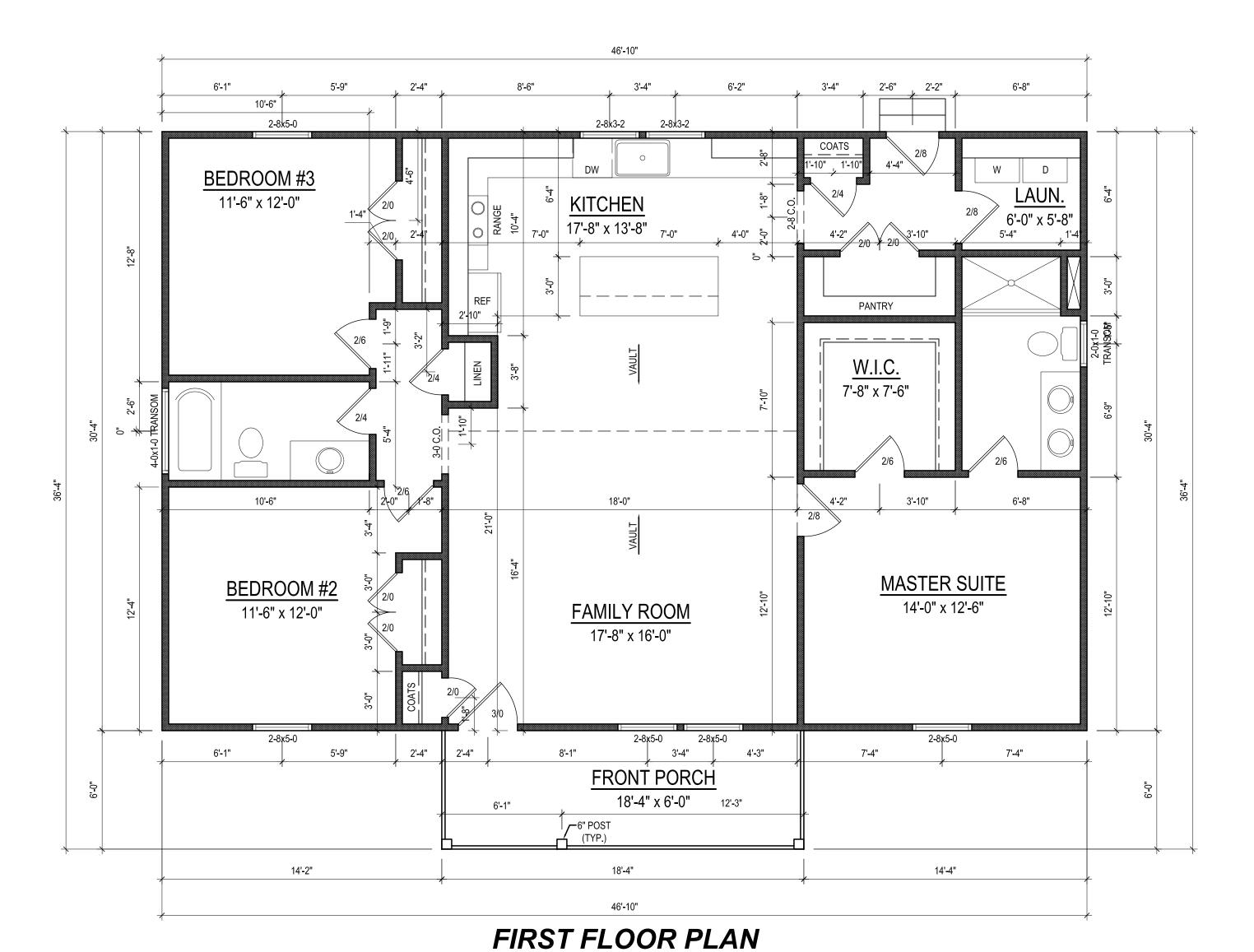
Scale: 1/4"=1'-0"

Remarks

ELEVATIONS

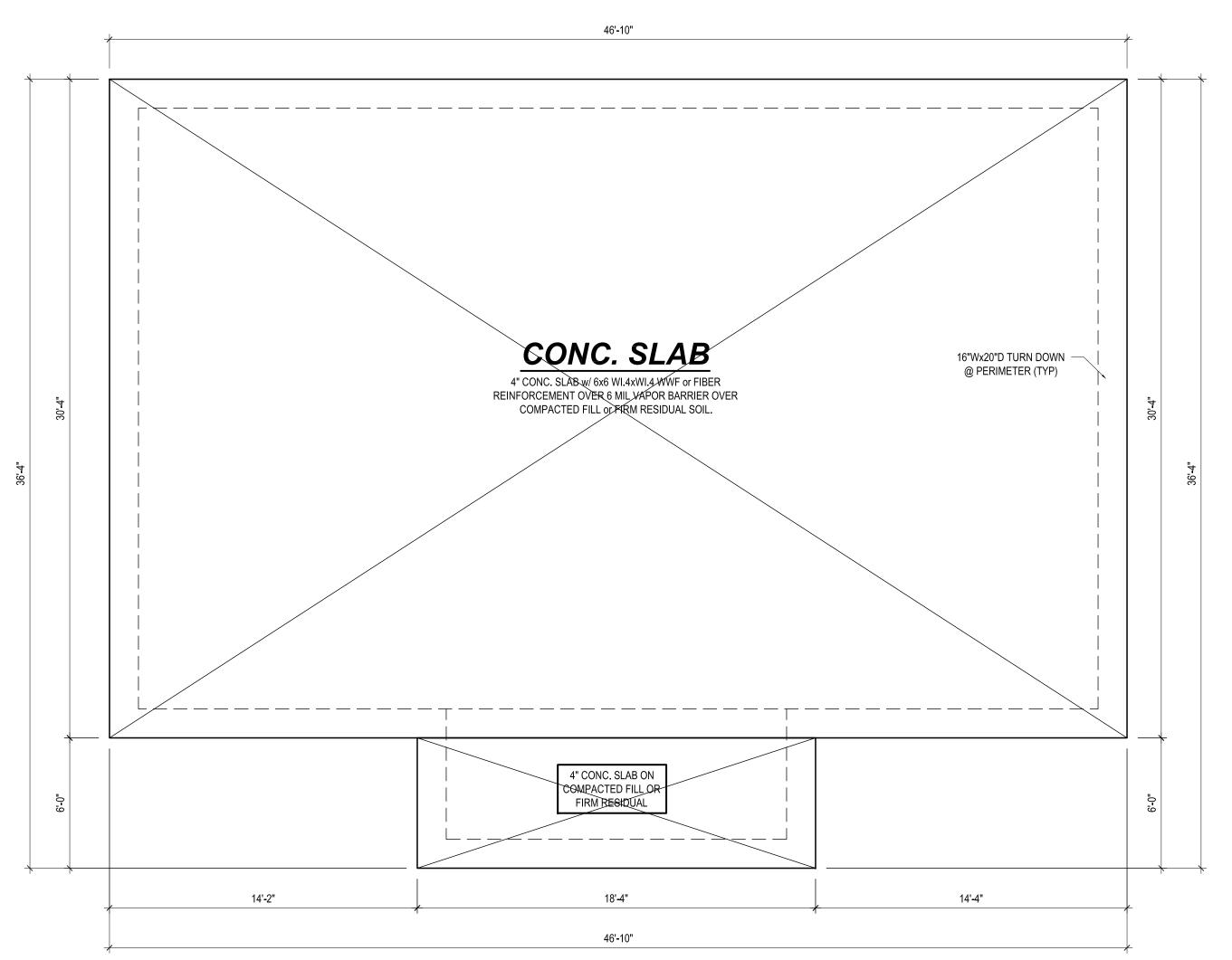
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1/4" = 1'-0"

CEILING HT. = 9'-0"



MONO SLAB FOUNDATION PLAN

1/4" = 1'-0"

*Engineers seal does not include construction 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. Fallure 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 construction begins.

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

> Deep Creek Plan

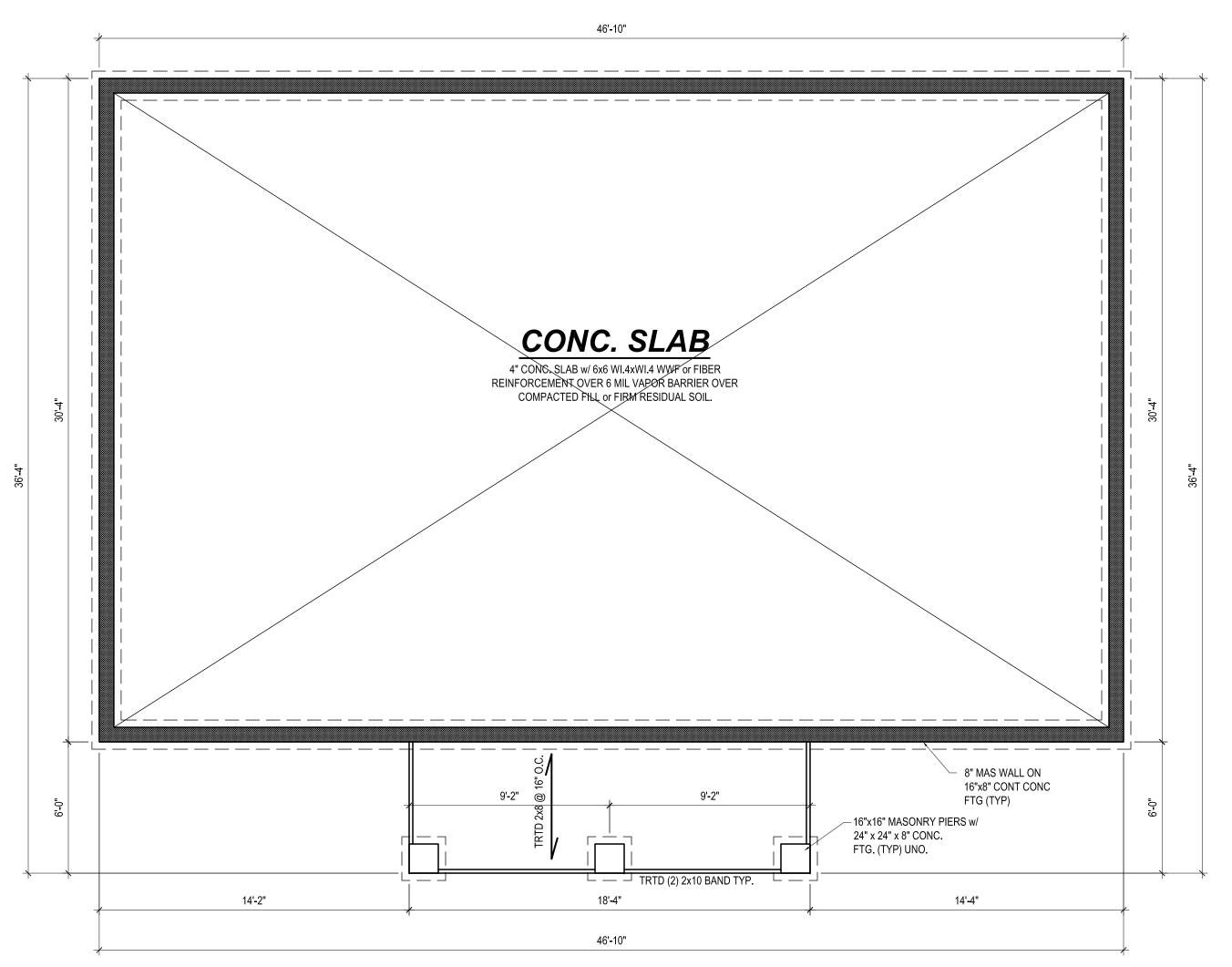
Kenneth McGlothlin
Construction Inc.
97 Shooting Star Lane
Fuquay-Varina, NC 27526

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Г	Date:	
	11-13-23	
Г	Drawn/Design By:	
	MEJ	
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8	1/4"=1'-0"	

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MONO SLAB

Sheet Number



STEM WALL FOUNDATION PLAN

1/4" = 1'-0"

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

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032702 11-13-23 ENGINEER E. JONESHI

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

Deep Creek Plan

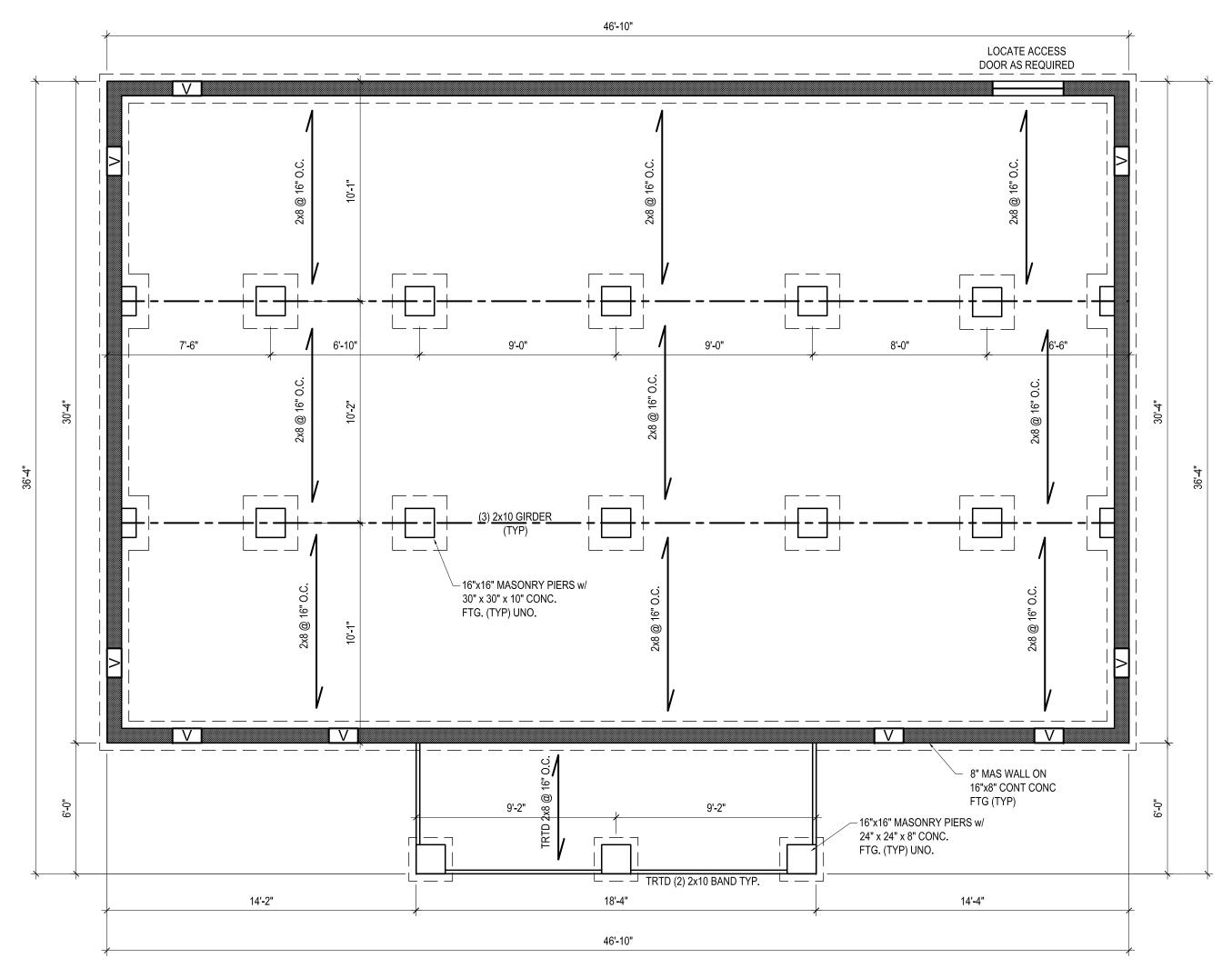
Kenneth McGlothlin
Construction Inc.
97 Shooting Star Lane
Fuquay-Varina, NC 27526

Project #: 23-230 Date: 11-13-23 Drawn/Design By: MEJ Scale: 1/4"=1'-0"

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STEMWALL SLAB

Sheet Number S1a



CRAWL SPACE FOUNDATION PLAN 1/4" = 1'-0"

plans are to be brought to the immediate attention of Mark E. Jones, PE. Fallure to do so will void Mark E. Jones, PE liability.
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sequences, procedures or safety precaution.

* Any devlations or discrepancies on plans are to be brought to the immediate

Deep Creek Plan

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

Project #: 23-230 <u>Date:</u>
11-13-23
<u>Drawn/Design By:</u>
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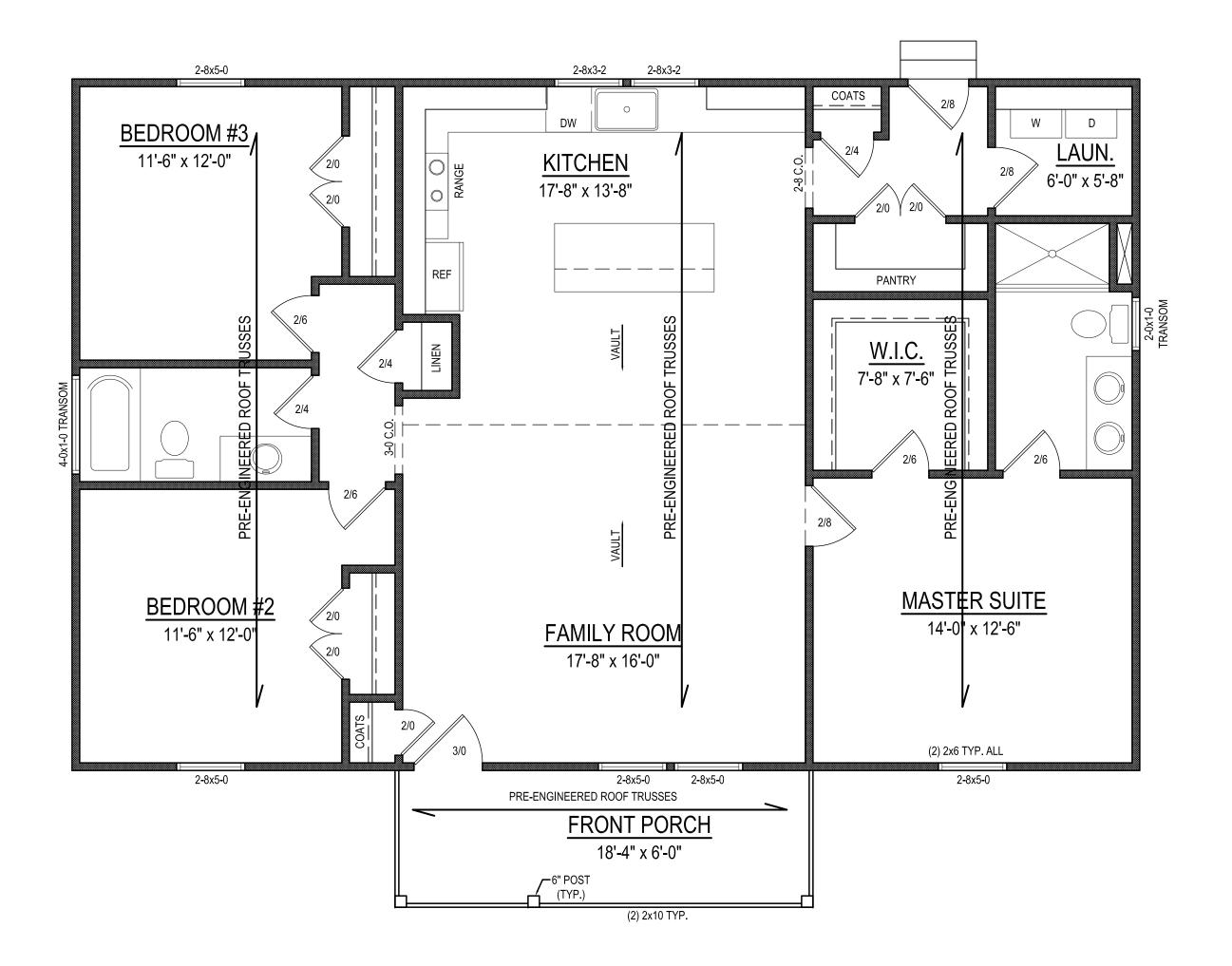
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FOUNDATION

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BRACED WALL NOTES

THIS PLAN SHALL BE CONTINUOUSLY BRACED WITH WOOD STRUCTURAL PANELS PER SECTION R602.10.3 OF THE NC RESIDENTIAL BUILDING CODE. NOTE ALL WALL BRACING LINES SATISFY THE MINIMUM AMOUNTS OF WALL BRACING PER CODE. GARAGE DOOR HEADER SHALL BE CONSTRUCTED PER FIGURE R602.10.1, METHOD PF.



FIRST FLOOR STRUCTURAL PLAN 1/4" = 1'-0" CEILING HT. = 9'-0"

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

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

Deep Creek Plan

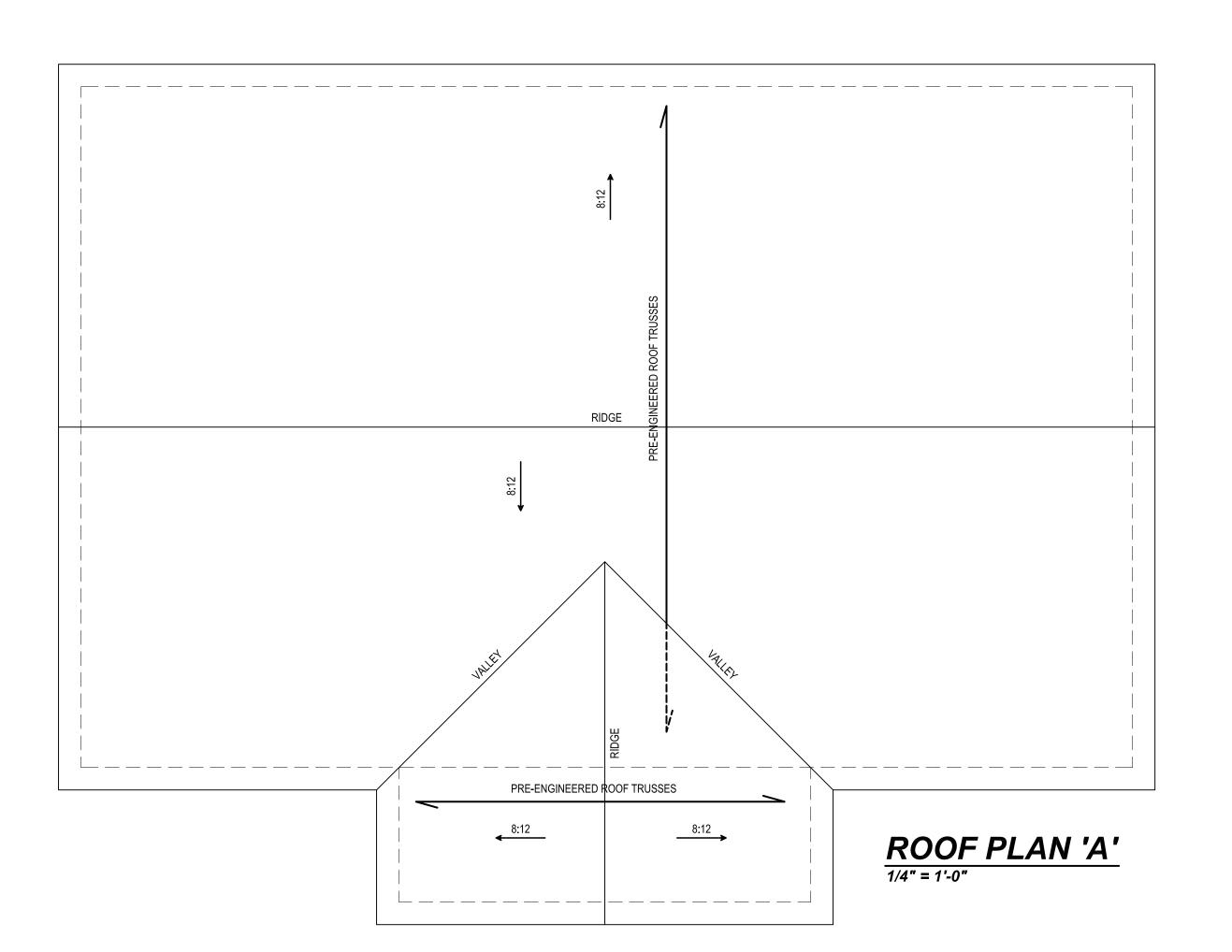
Kenneth McGlothlin
Construction Inc.
97 Shooting Star Lane
Fuquay-Varina, NC 27526

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STRUCTURAL

Sheet Number



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

Deep Creek Plan

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

Project #:
23-230

Date:
11-13-23

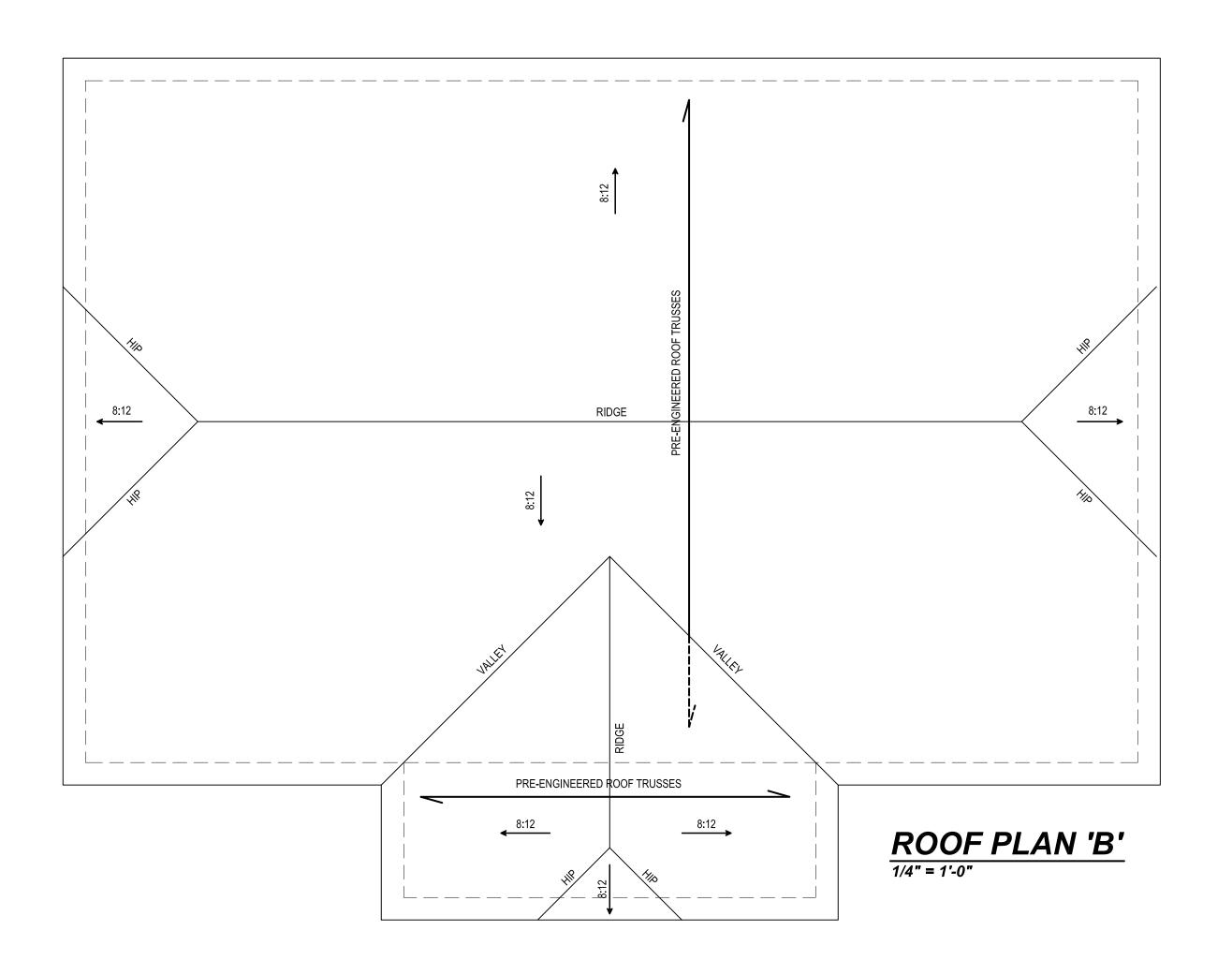
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MEJ

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

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ROOF A

Sheet Number



032702 11-13-23 ENGINEER ES 101 Mark E. Jones, PE 6425 Glen Dean Court Raleigh, NC 27603 (919) 395-5618

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Deep Creek Plan

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

	<u>Project #:</u> 23-230
	<u>Date:</u> 11-13-23
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ROOF b

Sheet Number S3a 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

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.

) ALL STRUCTURAL STEEL SHALL ASTM A-36. STEEL BEAMS SHALL BE SUPPORTED AT EACH END WITH A MINIMUM BEARING LENGTH OF 3-112" 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

2) WALL AND ROOF CLADDING VALUES: WALL CLADDING SHALL BE DESIGNED FOR A 24.1 SQ.FT. OR GREATER POSITIVE AND NEGATIVE PRESSURE

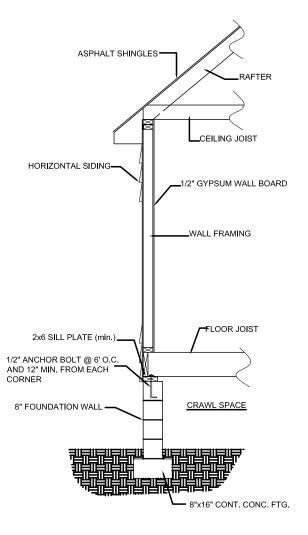
ROOF VALUES BOTH POSITIVE AND NEGATIVE SHALL BE AS FOLLOWS: 45.5 LBS/SQFT FOR ROOF PITCHES OF 0/12 TO 2.25/12

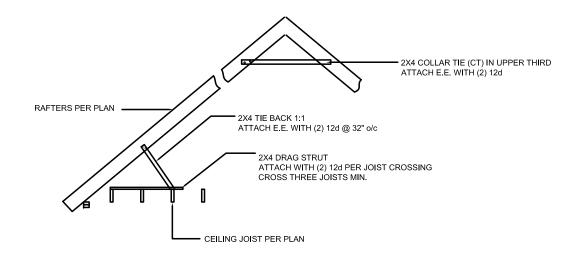
34.8 LBS/SQFT FOR ROOF PITCHES OF 2.25/12 TO 7/12 21.0 LBS/SQFT FOR ROOF PITCHES OF 7/12 TO 12/12 ** MEAN ROOF HEIGHT 30' OR LESS

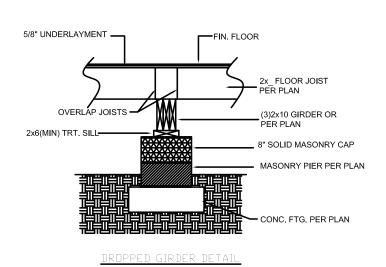
13) FOR ROOF SLOPES FROM 2:12 THROUGH 4:12, BUILDER TO INSTALL 2 LAYERS OF 15# FELT PAPER

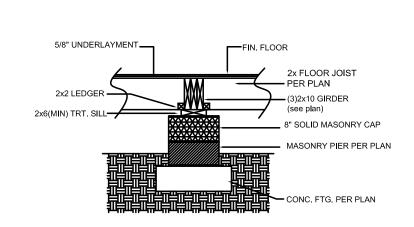
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	CLIMATE ZONE	MAXIMUM GLAZ IN G U-FACTOR	MINIMUM INSULATION R-VALUE					
			CEILINGS	WALLS	FLOORS	BASEMENT WALLS	SLAB PERIMETER	CRAWL SPACE WALLS
I	3	.35	R-38 or R-30	R-15	R-19	R-5/13	R-0	R-5/13
ı	4	25	D 20 or D 20	D 1E	D 10	D 10/1E	D 10	D 10/15









11-13-23 ENGINEER E JONETH Mark E. Jones, PE 6425 Glen Dean Court Raleigh, NC 27603 (919) 395-5618

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> Creek Deep Cre

27526 Construction Inc.

Shooting Star Lane
uay-Varina, NC 27526 nneth McGlothlin **Ke** 97 5 97 5 4 97 5 97 5

Project #: 23-230 11-13-23 Drawn/Design By: MEJ Scale: 1/4"=1'-0"

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DETAILS

Sheet Number **S4** of 7