# 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
- 4. STUD WALL DESIGN SHALL CONFORM TO ALL NORTH CAROLINA STATE BUILDING CODE
- 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 FO	<u>OOTAGE</u>	UNHEATED SQUARE FO	OTA
$FIRST\ FLOOR\ (A)=$	1430	FRONT PORCH (A)=	100
FIRST FLOOR (B)=	1418	FRONT PORCH (B)=	100
THIRD FLOOR=	N/A	SCREEN PORCH=	N/A
BASEMENT=	N/A	DECK=	N/A
		STORAGE=	N/A

 $TOTAL\ HEATED = 1430\ (A)$ 

TOTAL UNHEATED= 100 (A & B)

<u>1418 (B)</u>

#### **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)

1430 SQ. FT. OF CRAWL SPACE/1500

.95 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.

SQ. FT. OF ATTIC/300= 1430 (A) 4.76 (A) 1418 (B) 4.73(B)

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

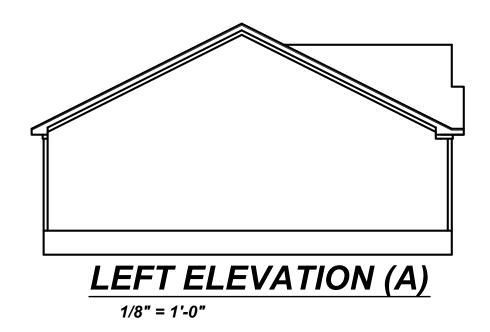
21 LBS. PER SQ. FT. FOR ROOF PITCHES OF 7/12 TO 12/12

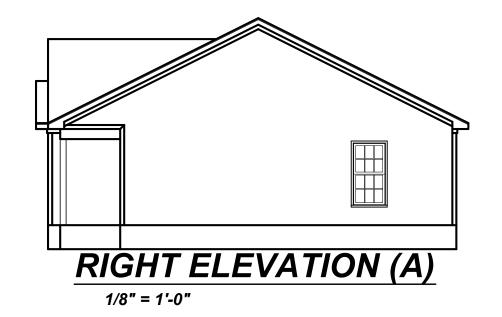
\*\* MEAN ROOF HEIGHT 30' OR LESS

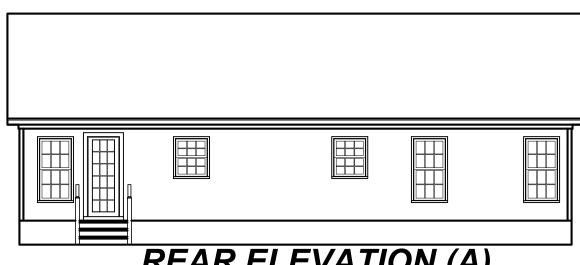


FRONT ELEVATION (A)

1/4" = 1'-0"







REAR ELEVATION (A)

1/8" = 1'-0"

20-329 10-13-20 Scale: REFER TO ELEV.

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Const. Inc.
14288 NC 210
Angier, NC 27501

**ELEVATIONS** 

# STRUCTURAL NOTES

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.

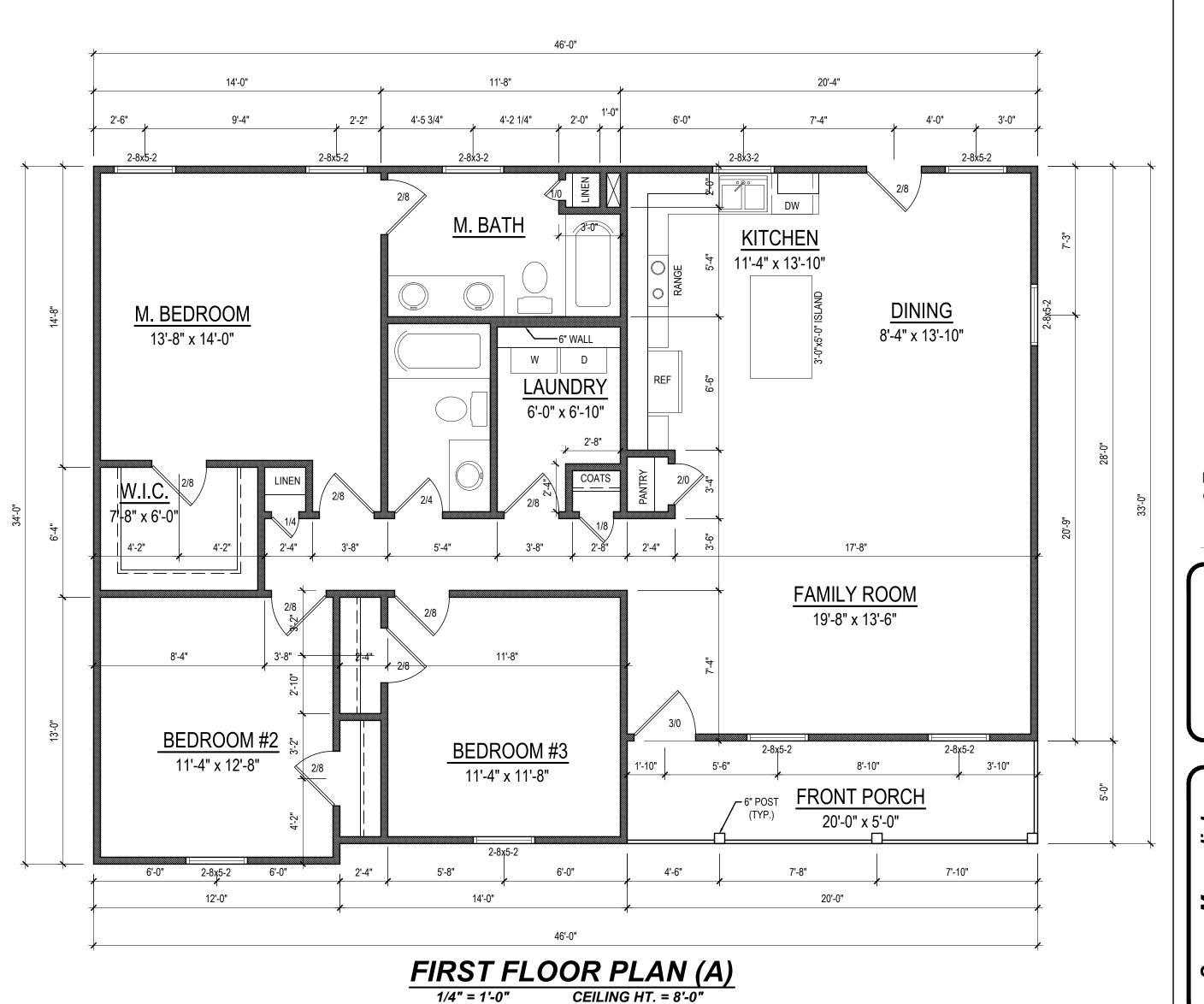
2) DESIGN LOADS:

	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 RESIDENTIAL 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
- 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 RESIDENTIAL BUILDING CODE
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- 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
- 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

# TABLE N1102.1 INSULATION AND FENESTRATION REQUIREMENTS BY COMPONENT

_		171	QUIIL		<u> </u>	COMI	<u>OIVLIVI</u>	
	MAXIMUM		MINIMUM INSULATION R-VALUE					
	CLIMATE ZONE	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



20-329 10-13-20 Drawn/Design By: KBB Scale: 1/4"=1'-0"

> **REVISIONS** Remarks Date:

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14288 NC 210
Angier, NC 27501

FLOOR PLAN

Sheet Number

# GENERAL NOTES:

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	FIRST FLOOR (A)=	1430	FRONT PORCH (A)	= 100
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 $TOTAL\ HEATED = 1430\ (A)$ 

TOTAL UNHEATED= 100 (A & B)

<u>1418 (B)</u>

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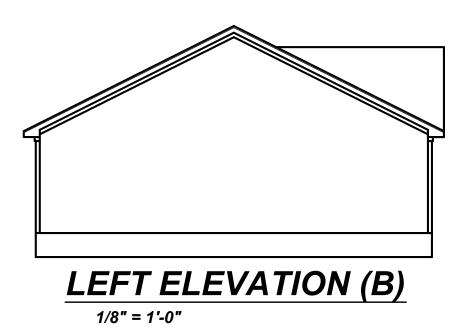
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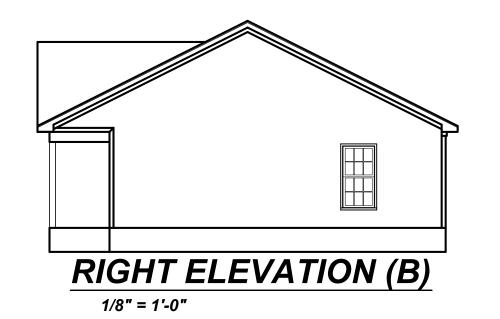
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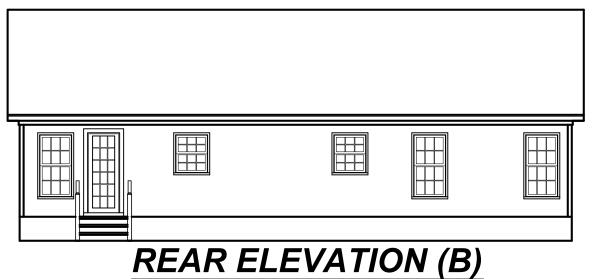


FRONT ELEVATION (B)

*1/4" = 1'-0"* 







**1/8" = 1'-0"** 

20-329 <u>Date:</u> 10-13-20 Scale: REFER TO ELEV.

Remarks

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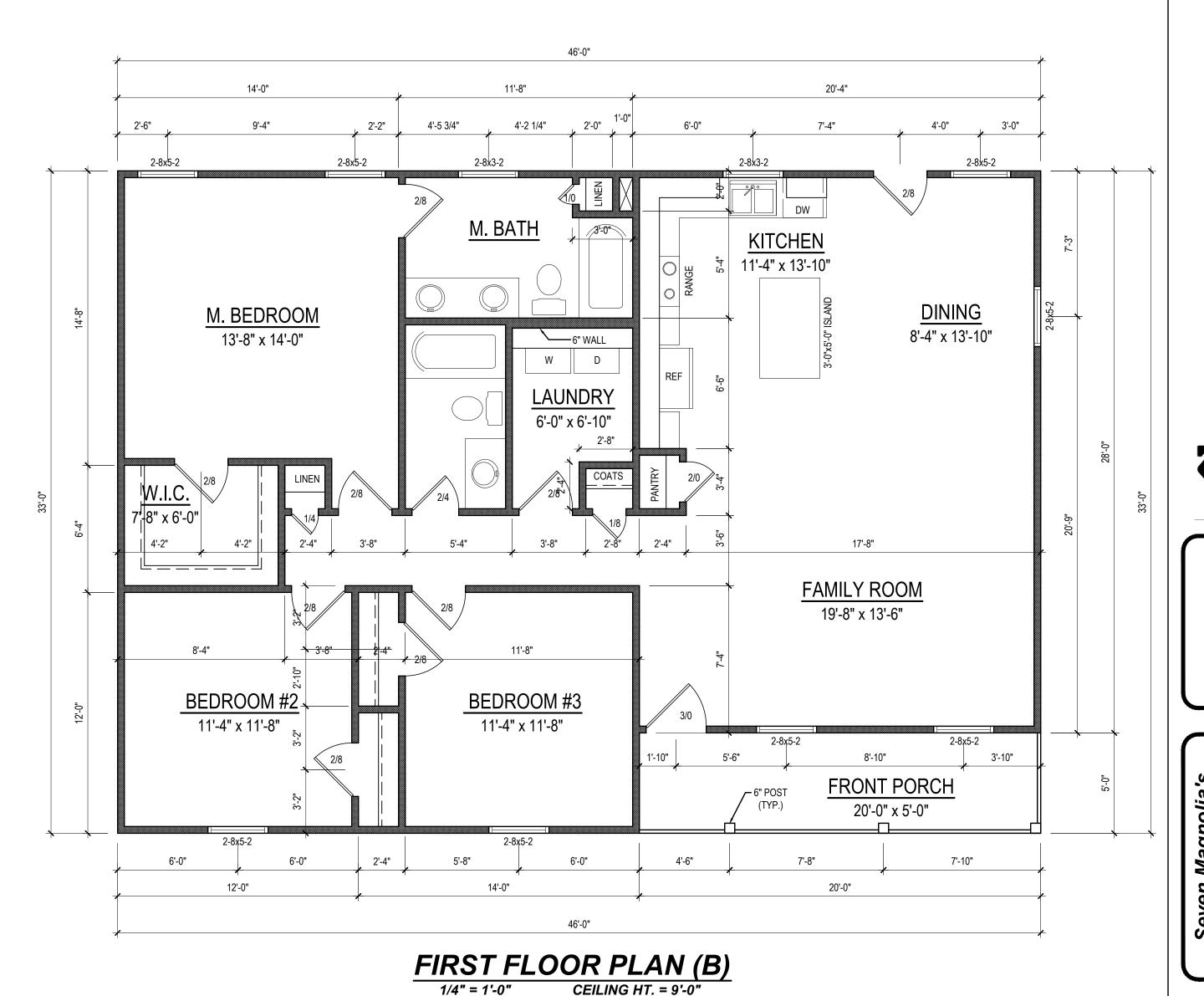
**ELEVATIONS** 

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# TABLE N1102.1 INSULATION AND FENESTRATION REQUIREMENTS BY COMPONENT

CLIMATE ZONE	MAXIMUM			MINIMU	M INSULATION F	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



**CEILING HT. = 9'-0"** 

20-329 10-13-20 Drawn/Design By: KBB 1/4"=1'-0"

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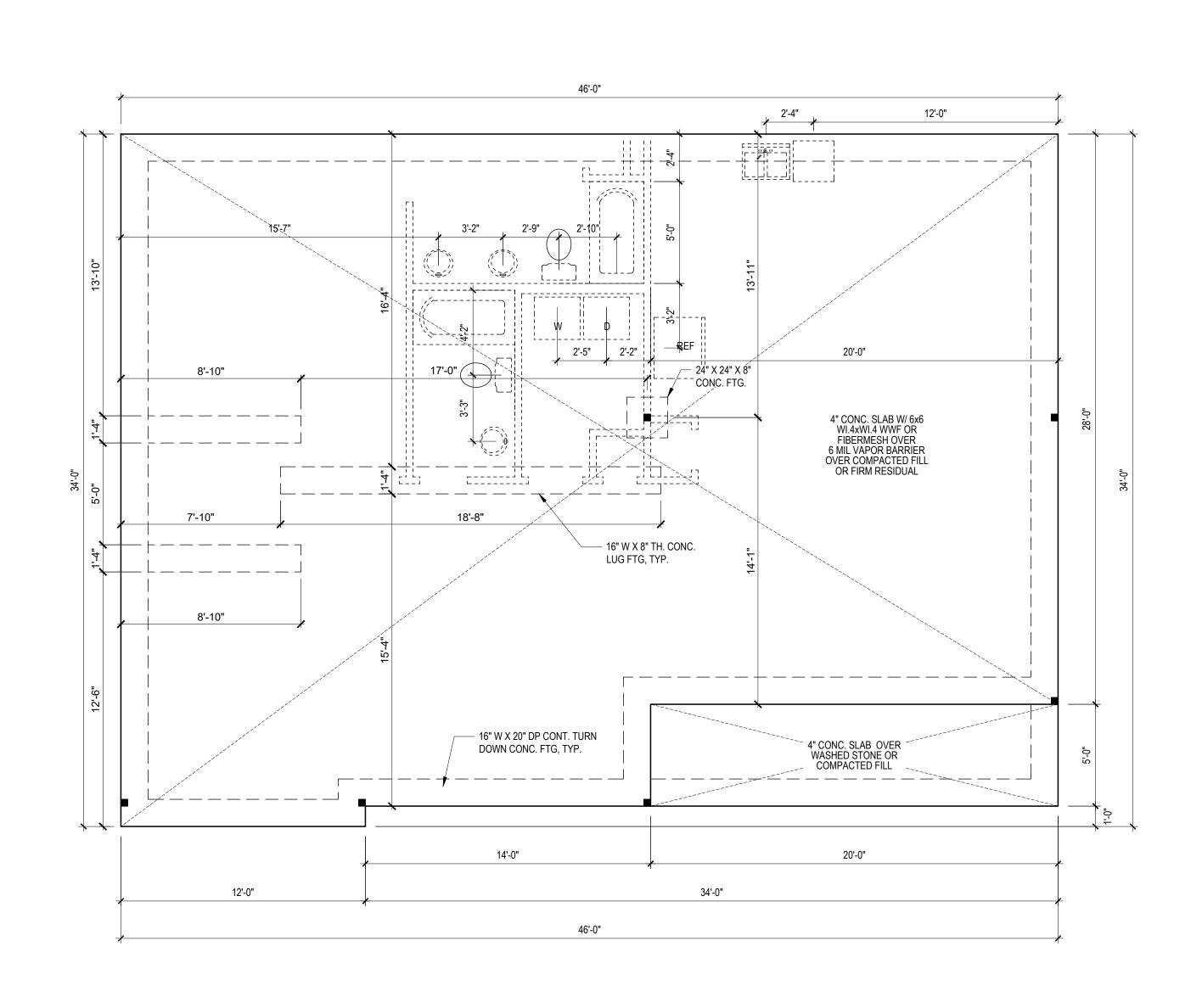
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Angier, NC 27501

FLOOR PLAN

Sheet Number



FOUNDATION PLAN (ELEV. A - MONO. SLAB OPT.)

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 Tyndall Engineering & Design, P.A. Failure to do so will void Tyndall Engineering & Design, P.A. hiability.

\* Please review these documents carefully. Tyndall Engineering & Design, P.A. will interpret that all dimensions, recommendations, etc. presented in these documents were deemed acceptable once construction begins.



TYNDALL ENGINEERING & DESIGN, P.A.



STEVE NORDAN

Pidit:

MARY TYLER PLAN

STICK FRAME OPTION

FDN. PLAN

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	Project #: 2001-010506
	Date: 10/21/20
	<u>Drawn/Design By:</u> IJE
П	DWG. Checked By:

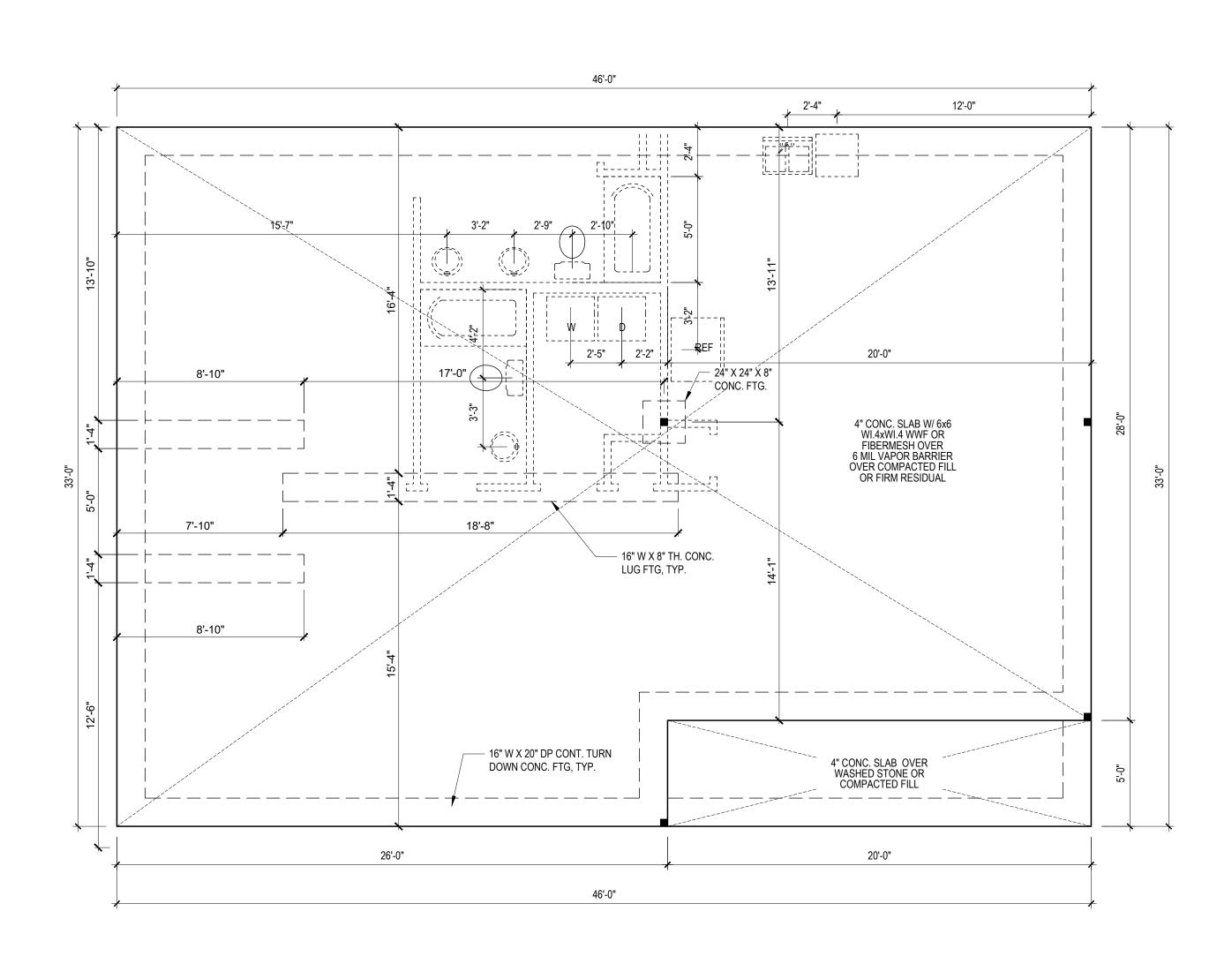
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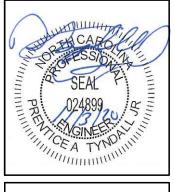
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FOUNDATION PLAN (ELEV. B - MONO. SLAB OPT.)

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 Tyndall Engineering & Design, P.A. Failure to do so will void Tyndall Engineering & Design, P.A. liability.
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TYNDALL ENGINEERING & DESIGN, P.A.



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MARY TYLER PLAN

STICK FRAME OPTION

FDN PLAN

Project #:
2001-010506

Date:
10/21/20

Drawn/Design By:
IJE

DWG. Checked By:

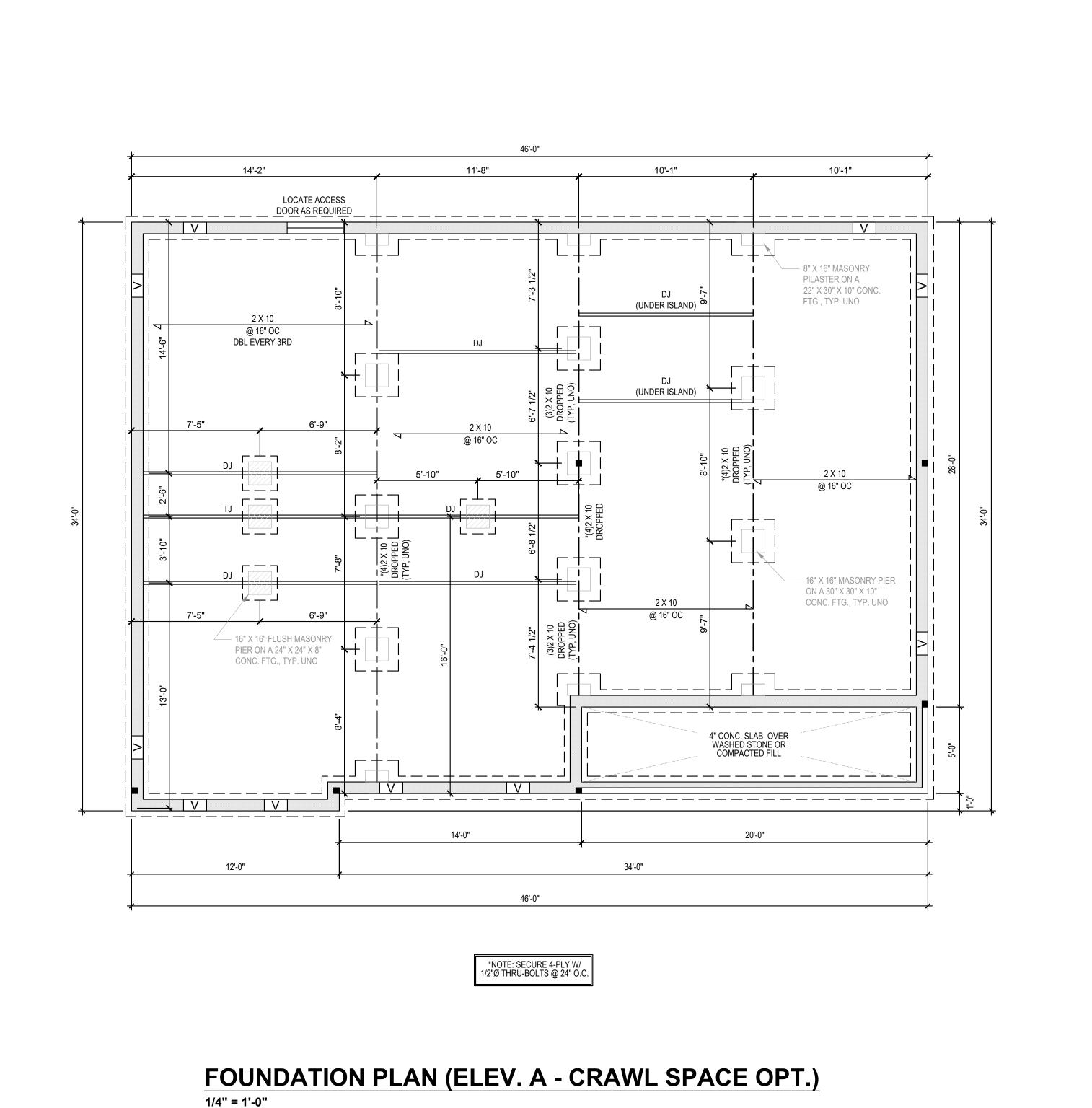
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No. Date: Remarks

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\* Engineers seal does not include construction means, methods, techniques, sequences, procedures or safety precaution.
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INGINEERING & DESIGN, P.A.



STEVE NORDAN

Plan:

MARY TYLER PLAN

STICK FRAME OPTION

FND. PLAN 1ST FLR. FRMG.

Project #:
2001-010506

Date:
10/21/20

Drawn/Design By:

IJE

Scale:
SEE PLAN

REVISIONS

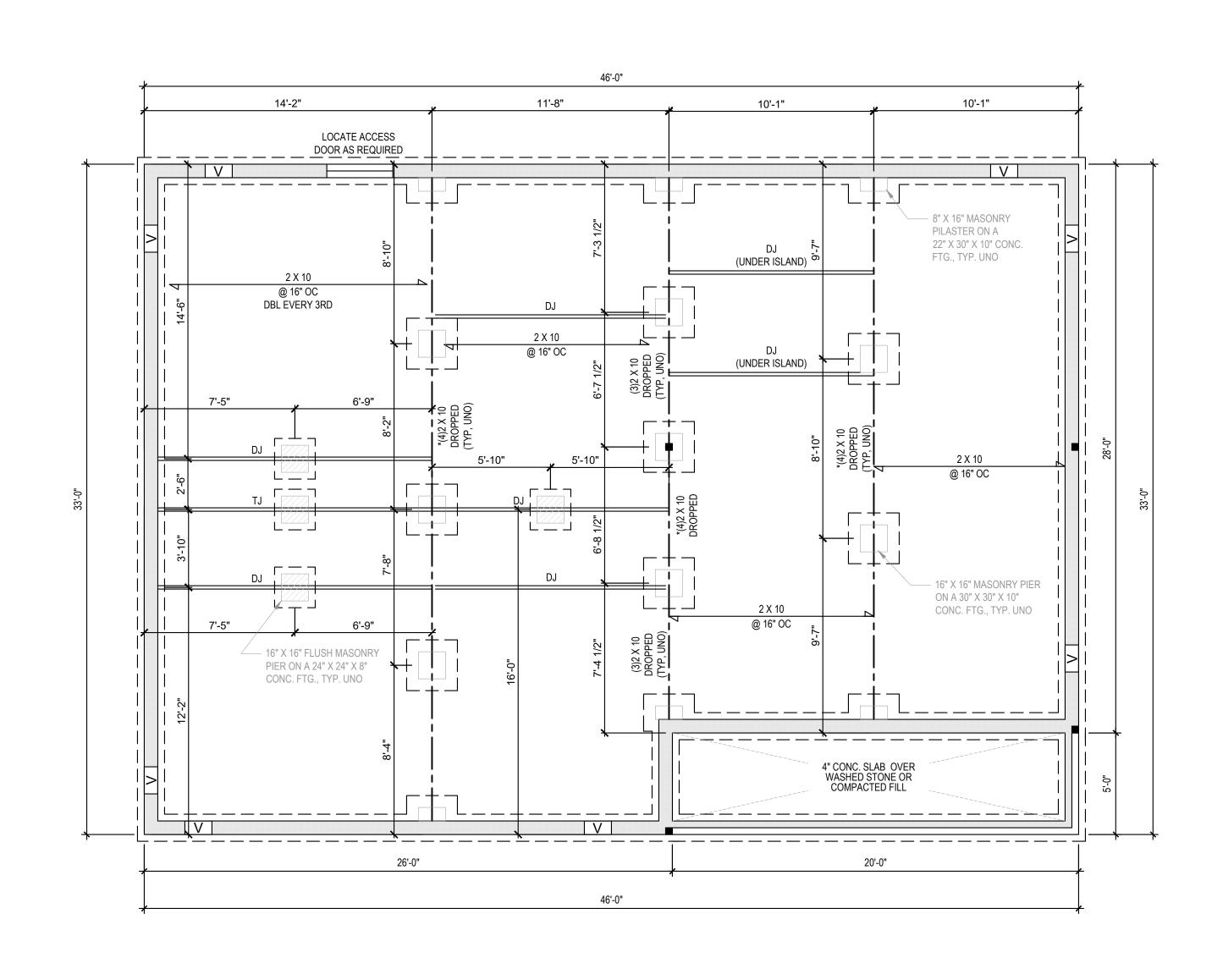
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Sheet Number

S1.3



\*NOTE: SECURE 4-PLY W/ 1/2"Ø THRU-BOLTS @ 24" O.C.

# FOUNDATION PLAN (ELEV. B - CRAWL SPACE OPT.)

1/4" = 1'-0"

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STEVE NORDAN

Pin:

MARY TYLER PLAN

STICK FRAME OPTION

FND. PLAN 1ST FLR. FRMG.

Project #:
2001-010506

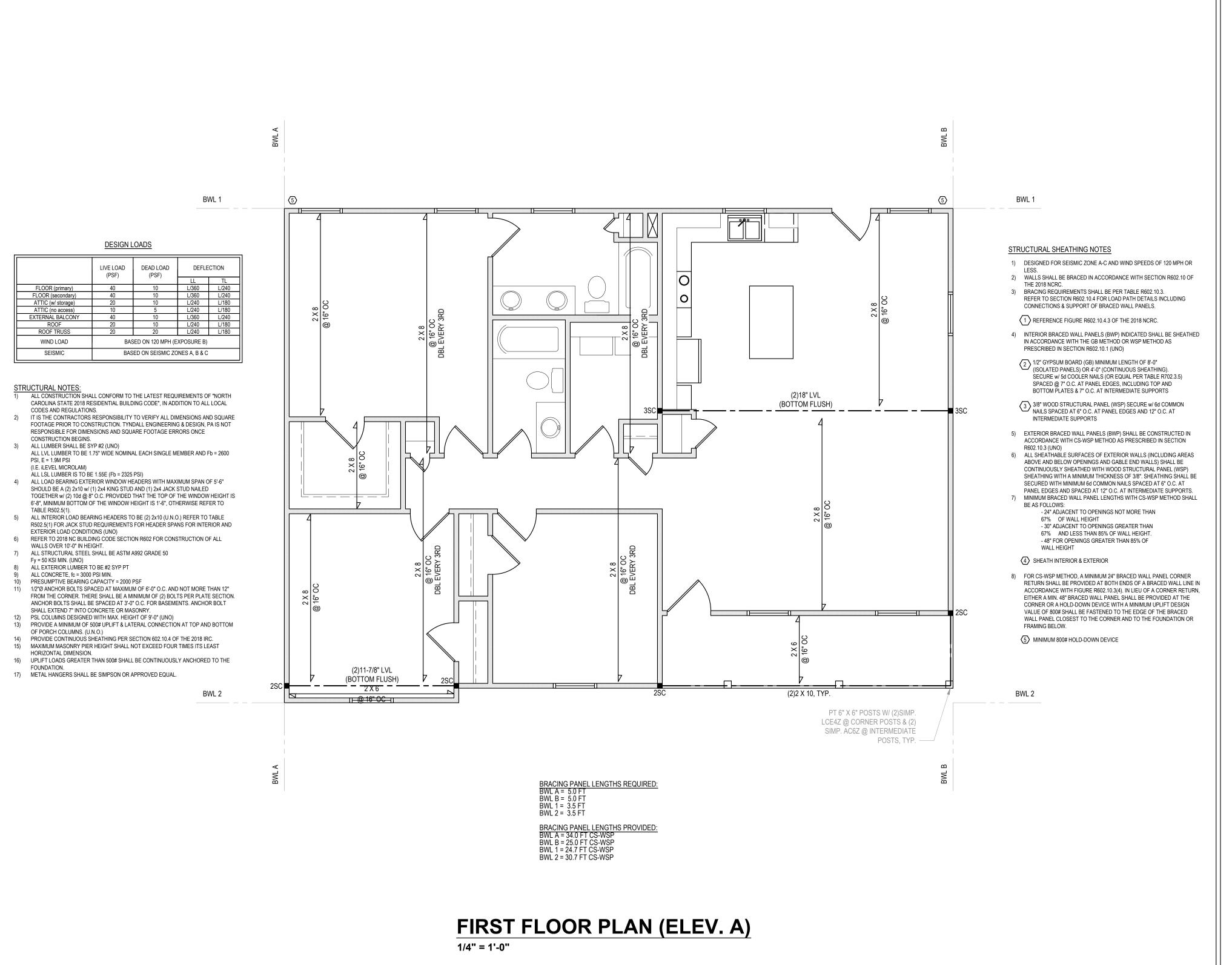
Date:
10/21/20

Drawn/Design By:
IJE

SEE PLAN

Sheet Number

S1.4



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

Any deviations or discrepancies on \* Any deviations or discrepancies on plans are to be brought to the immediate attention of Tyndall Engineering & Design, P.A. Failure to do so will void Tyndall Engineering & Design, P.A. liability. \* Please review these documents carefully. Tyndall Engineering & Design, P.A. will interpret that all dimensions, recommendations, etc. presented in these documents were deemed secretable once construction.



TYNDALL ENGINEERING & DESIGN, P.A.

MARY TYLER PLAN STICK FRAME OPTION

ADER

Project #: 2001-010506 Date: 10/21/20

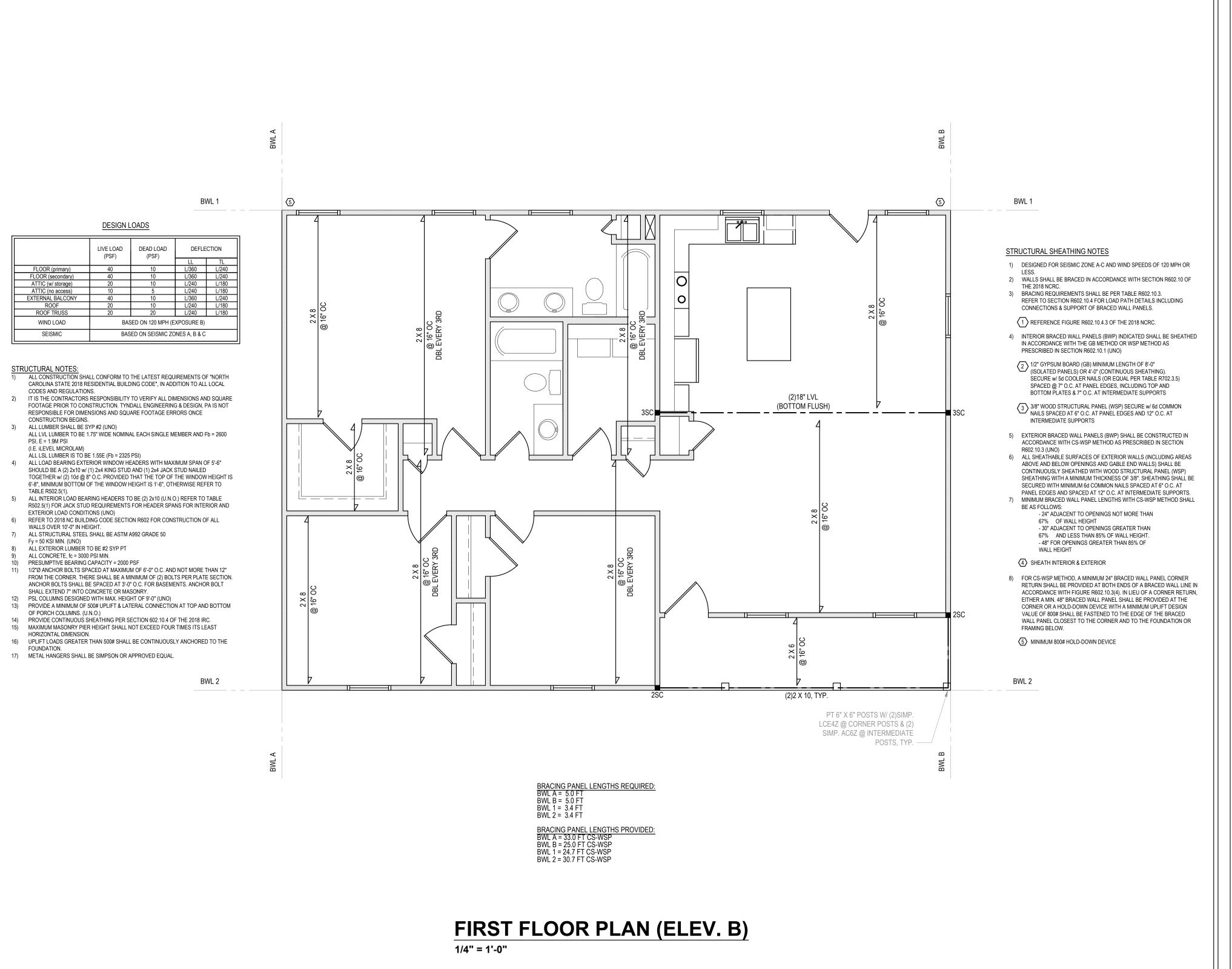
Drawn/Design By IJE DWG. Checked By:

PTII Scale: SEE PLAN

REVISIONS

**Sheet Number** 

S2.1



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

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TYNDALL ENGINEERING & DESIGN, P.A.



MARY TYLER PLAN
STICK FRAME OPTION

1ST FLR. HEADER 1ST FLR. CLG.

Project #:
2001-010506

Date:
10/21/20

Drawn/Design By:

DWG. Checked By:
PTII
Scale:

SEE PLAN

IJE

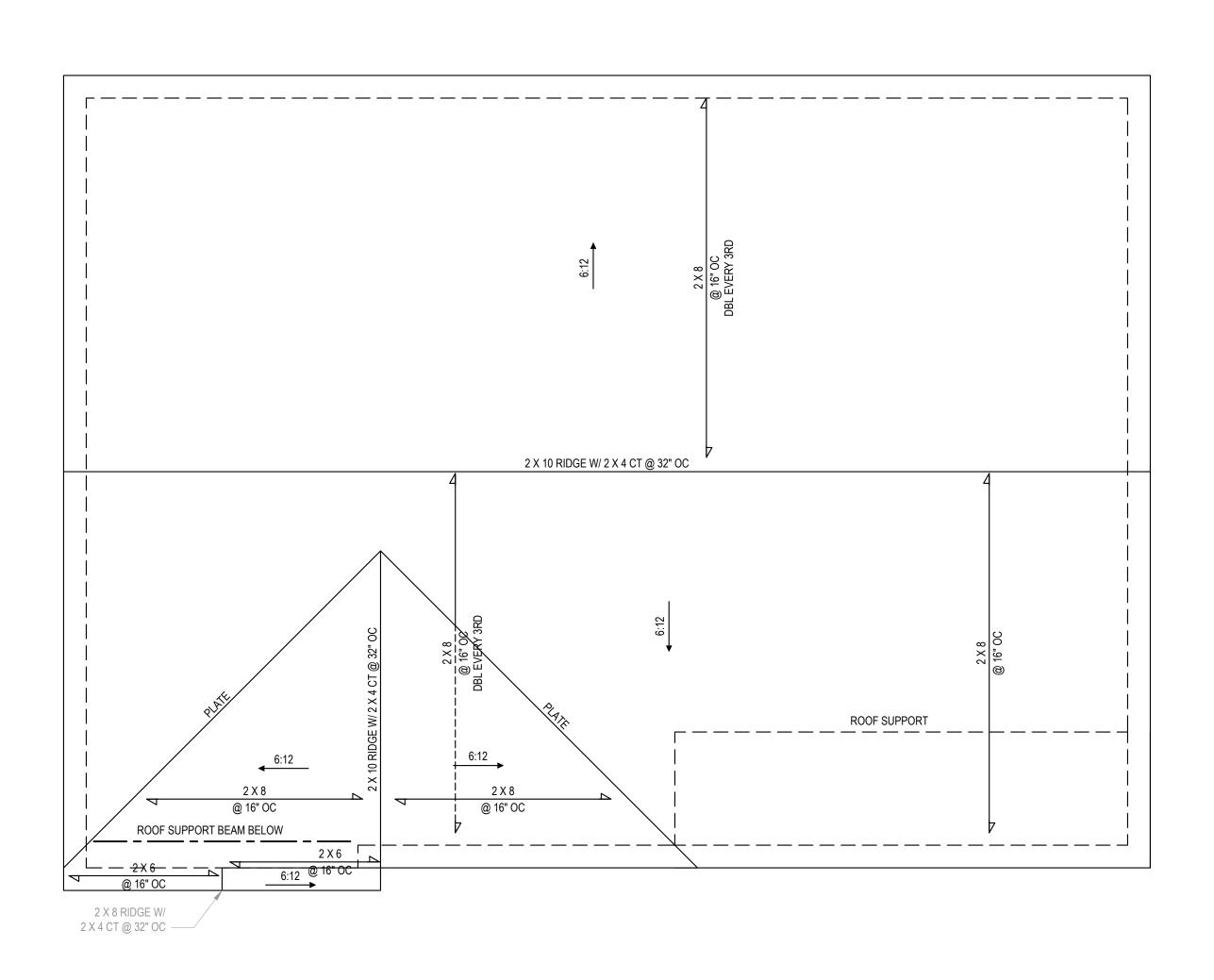
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Date: Remarks

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**Sheet Number** 

S2.2



**ROOF PLAN (ELEV. A)** 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 Tyndall Engineering & Design, P.A. Failure to do so will void Tyndall Engineering & Design, P.A. liability.
\* Please review these documents carefully. Tyndall Engineering & Design, P.A. will interpret that all dimensions, recommendations, etc. presented in these documents were deemed acceptable once construction begins.





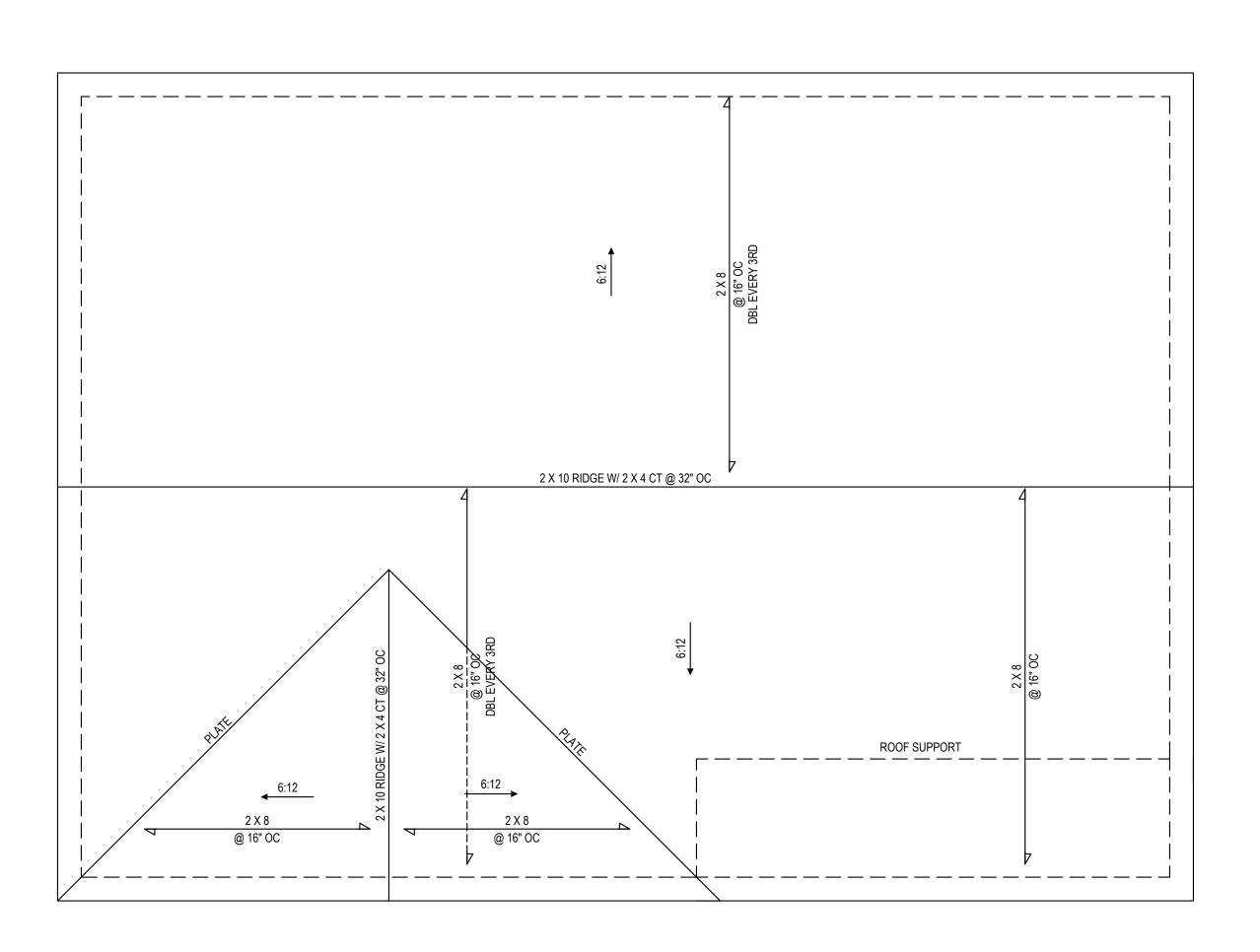
MARY TYLER PLAN
STICK FRAME OPTION

Project #: 2001-010506 Date:
10/21/20
Drawn/Design By:
IJE
DWG. Checked By:
PTII

Scale: NOT TO SCALE

REVISIONS									
No.	Date:	Remarks							
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S3.1



\* Engineers seal does not include construction means, methods, techniques, sequences, procedures or safety precaution.

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MARY TYLER PLAN
STICK FRAME OPTION

ROOF PLAN

STEVE NORDAN

Project #:
2001-010506

Date:
10/21/20

Drawn/Design By:

PTII
Scale:

Scale: NOT TO SCALE

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S3.2

8 of 10

**ROOF PLAN (ELEV. B)** 

1/4" = 1'-0"

# STRUCTURAL NOTES

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)	DEFLE	CTION	
	(, -, )	( /	LL	TL	
ALL FLOORS	40	10	L/360	L/240	
ATTIC (w/ walk up stairs)	30	10	L/360	L/240	
ATTIC (pull down access)	20	10	L/240	L/180	
ATTIC (no access)	10	5	L/240	L/180	
EXTERNAL BALCONY	40	10	L/360	L/240	
ROOF	20	10	L/240	L/180	
ROOF TRUSS	20	20	L/240	L/180	
WIND LOAD		BASED ON 120 Mi	SED ON 120 MPH (EXPOSURE B)		
SEISMIC	SEISMIC ZONES A, B & C				

- 3) MINIMUM ALLOWABLE SOIL BEARING PRESSURE = 2000 PSF
- 4) CONCRETE SHALL HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 3000 PSI AND A MAXIMUM SLUMP OF FIVE INCHES UNLESS NOTED OTHERWISE. (U.N.O.)
- 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, BASED ON 2x10) UNO.
- ALL FRAMING LUMBER EXPOSED TO THE ELEMENTS SHALL BE TREATED MATERIAL.

  ALL LVL LUMBER TO BE 1.75" WIDE NOMINAL EACH SINGLE MEMBER AND Fb = 2600 PSI, E = 1.9M PSI (U.N.O.)

  ALL LSL LUMBER TO BE 3.5" WIDE NOMINAL EACH SINGLE MEMBER AND Fb = 2325 PSI, E = 1.6M PSI (U.N.O.)
- ALL PSL LUMBER TO BE 3.5" WIDE NOMINAL EACH SINGLE MEMBER AND Fb = 2400 PSI, E = 1.8M PSI (U.N.O.)
- ALL LOAD BEARING EXTERIOR HEADERS SHALL BE AT (2) 2x10. (U.N.O.) REFER TO TABLE R602.7(1) & (2) FOR JACK STUD REQUIREMENTS FOR HEADER SPANS FOR INTERIOR AND EXTERIOR LOAD CONDITIONS UNLESS SPECIFICALLY NOTED ON PLANS.
- 8) ALL STRUCTURAL STEEL W-SHAPES (I-BEAMS) SHALL BE ASTM A992 GRADE 50. ALL STEEL ANGLES, PLATES, AND C-CHANNELS SHALL BE ASTM A36. ALL STEEL PIPE SHALL BE ASTM A53 GRADE B.
- 9) STEEL BEAMS SHALL BE SUPPORTED AT EACH END WITH A MINIMUM BEARING LENGTH OF 3-1/2" AND FULL FLANGE WIDTH. PROVIDE SOLID BEARING FROM BEAM SUPPORT TO FOUNDATION. BEAMS SHALL BE ATTACHED TO EACH SUPPORT WITH TWO (2) LAG SCREWS (1/2"Ø x 4" LONG). LATERAL SUPPORT IS CONSIDERED ADEQUATE PROVIDED 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) PROVIDE ANCHOR BOLT PLACEMENT PER SECTION 403.1.6: 1/2"Ø ANCHOR BOLTS SPACED AT 6'-0" O.C. AND PLACED 12" FROM THE END OF EACH PLATE SECTION. ANCHOR BOLTS SHALL BE SPACED AT 3'-0" O.C. FOR BASEMENTS. ANCHOR BOLT SHALL EXTEND 7" INTO CONCRETE OR MASONRY. THE BOLTS SHALL BE LOCATED IN THE MIDDLE THIRD OF THE WIDTH OF THE PLATE. THERE SHALL BE A MINIMUM TWO ANCHOR BOLTS PER PLATE SECTION.
- 11) FOUNDATION DRAINAGE-DAMP PROOFING OR WATERPROOFING PER SECTION 405 AND 406 OF NC BUILDING CODE.
- 12) WALL AND ROOF CLADDING VALUES:
  - WALL CLADDING SHALL BE DESIGNED FOR 28.0 POUNDS PER SQUARE FOOT (LBS/SQFT) OR GREATER POSITIVE AND NEGATIVE PRESSURE. ROOF VALUES BOTH POSITIVE AND NEGATIVE SHALL BE AS FOLLOWS: 39.0 LBS/SQFT FOR ROOF PITCHES 0/12 TO 1.5/12
- 36.0 LBS/SQFT FOR ROOF PITCHES 1.5/12 TO 6/12
- 18.0 LBS/SQFT FOR ROOF PITCHES 6/12 TO 12/12 \*\*MEAN ROOF HEIGHT 30'-0" OR LESS
- 13) FOR ROOF SLOPES FROM 2/12 THROUGH 4/12, BUILDER TO INSTALL 2 LAYERS OF 15# FELT PAPER.
- 14) REFER TO SECTION R602.3 FOR FRAMING OF ALL WALLS OVER 10'-0" IN HEIGHT
- 15) PROVIDE CONTINUOUS SHEATHING PER SECTION 602.10.3 OF THE 2018 NCRC.
- 16) UPLIFT LOADS GREATER THAN 500# SHALL BE CONTINUOUSLY ANCHORED TO THE FOUNDATION. 17) REFER TO TABLE N1102.1 FOR PRESCRIPTIVE BUILDING ENVELOPE THERMAL COMPONENT CRITERIA.
- 18) PSL COLUMNS DESIGNED WITH MAXIMUM HEIGHT OF 9'-0" (U.N.O.)
- 19) PROVIDE A MINIMUM OF 500# UPLIFT & LATERAL CONNECTION AT TOP AND BOTTOM OF PORCH COLUMNS. (U.N.O.)
- 20) MAXIMUM MASONRY PEIR HEIGHT SHALL NOT EXCEED FOUR TIMES ITS LEAST HORIZONTAL DIMENSION
- 21) IT IS THE CONTRACTORS RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND SQUARE FOOTAGE PRIOR TO CONSTRUCTION. TYNDALL ENGINEERING & DESIGN, PA IS NOT RESPONSIBLE FOR DIMENSION OR SQUARE FOOTAGE ERRORS ONCE CONSTRUCTION BEGINS.

_											
	CLIMATE ZONES	FENESTRATION U-FACTOR b,j	SKYLIGHT <sup>b</sup> U-FACTOR	GLAZED FENESTRATION SHGC <sup>b,k</sup>	CEILING <sup>™</sup> R-VALUE	WOOD FRAMED WALL R-VALUE	MASS WALL R-VALUE	FLOOR R-VALUE	BASEMENT <sup>C,Q</sup> WALL R-VALUE	SLAB <sup>d</sup> R-VALUE AND DEPTH	CRAWL SPACE WALL R-VALUE

15 or 13 + <u>2.5</u>

19, or 13 + 5

19

19

30 <sup>9</sup>

5/13 or 5/10 cont

13/17 <u>or</u>

5/13

10/15

10/15

10

5/13

10/15

10/19

#### 38 or 30 0.35 0.55

0.55

0.55

0.35

0.35

4

TABLE N1102.1 CLIMATE ZONES 3-5 R-VALUES ARE MINIMUMS. U-FACTORS AND SHGC ARE MAXIMUMS. WHEN INSULATION IS INSTALLED IN A CAVITY WHICH IS LESS THAN THE LABEL OR DESIGN THICKNESS
OF THE INSULATION, THE INSTALLED R-VALUE OF THE INSULATION SHALL NOT BE LESS THAN THE R-VALUE SPECIFIED IN THE TABLE.

38 or 30

38 or 30 cont

0.30

0.30

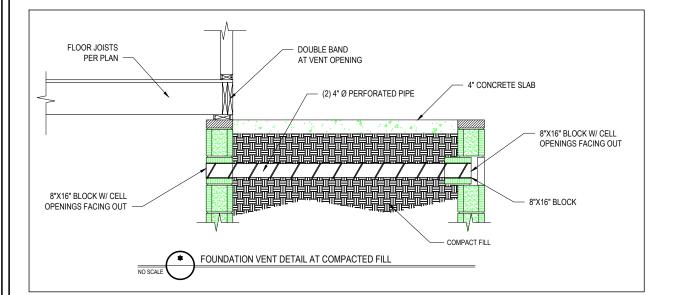
- c. \*\*10/15" MEANS R-10 CONTINUOUS INSULATED SHEATHING ON THE INTERIOR OR EXTERIOR OF THE HOME
- OR R-15 CAVITY INSULATION AT THE INTERIOR OF THE BASEMENT WALL OR CRAWL SPACE WALL,

  d. FOR MONOLITHIC SLABS, INSULATION SHALL BE APPLIED FROM THE INSPECTION GAP DOWNWARD TO THE BOTTOM
- e. <u>Deleted</u> f. Basement wall insulation is not required in Warm-Humid Locations as defined by <u>Figure N1101.7</u> and <u>Table N1101.7</u>. g. OR INSULATION SUFFICIENT TO FILL THE FRAMING CAVITY. R-19 MINIMUM.

- ASS WALLS, THE SECOND R-VALUE APPLIES WHEN MORE THAN HALF THE INSULATION IS ON THE INTERIOR MASS WAL
- I. POM WINSS WAILS, IN EXCLUSION EXALLE APPLIES WHEN INDEE, INAN PILE. THE ROSAL TOIN IS ON THE IN ENDOK MASS WAIL.

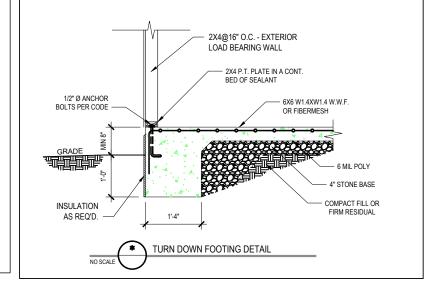
  I. MADDITION TO THE EXEMPTION IN SECTION IN 1102.3.3 AMANIMM OF TWO GLAZED FENESTRATION PRODUCT ASSEMBLES HAVING A L-FACTOR NO GREATER THAN 0.55 SHALL BE PERMITTED TO BE SUBSTITUTED FOR INMIMIM CODE COMPLIANT FENESTRATION PRODUCT ASSEMBLES WITHOUT PENALTY.

  I. MADITION TO THE EXEMPTION IN SECTION IN 102.3.3 A MANIMAM OF TWO GLAZED FENESTRATION PRODUCT ASSEMBLES HAVING A SHOC NO GREATER THAN 0.70 SHALL BE PERMITTED TO BE SUBSTITUTED FOR INMIMIMAL CODE COMPLIANT FENESTRATION PRODUCT ASSEMBLES WITHOUT PENALTY.
- R30 SHALL BE DEBMED TO SATISFY THE CELLING INSULATION REQUIREMENT WHEREVER THE FULL HEIGHT OF UNCOMPRESSED R30 INSULATION EXTENDS OVER THE WALL TOP PLATE
  AT THE EAVES OTHERWISE R38 INSULATION IS REQUIRED WHERE ADEQUATE CLEARANCE EXISTS OR INSULATION MUST EXTEND TO EITHER THE INSULATION BAFFLE OR WITHIN 1 INCH
  OF THE ATTIC ROOF DECK.
- m. TABLE VALUE REQUIRED EXCEPT FOR ROOF EDGE WHERE THE SPACE IS LIMITED BY THE PITCH OF THE ROOF, THERE THE INSULATION MUST FILL THE SPACE UP TO THE AIR BAFFLE. -19 FIBERGLASS BATTS COMPRESSED AND INSTALLED IN A NOMINAL 2 × 6 FRAMING CAVITY IS DEEMED TO COMPLY. FIBERGLASS BATTS RA AND INSTALLED IN A 2X4 WALL IS NOT DEEMED TO COMPLY.
- 9. BASEMENT WALL MEETING THE MINIMUM MASS WALL SPECIFIC HEAT CONTENT REQUIREMENT MAY USE THE MASS WALL R-VALUE AS THE MINIMUM REQUIREMENT



### **DEFINITIONS FOR COMMON ABBREVIATIONS**

ALT	=	ALTERNATE	MAX	=	MAXIMUM
CANT	=	CANTILEVER	MIN	=	MINIMUM
CJ	=	CEILING JOIST	NOM	=	NOMINAL
CMU	=	CONCRETE MASONRY UNIT	O.C.	=	ON CENTER
COL	=	COLUMN	PL	=	POINT LOAD
CONC	=	CONCRETE	PT	=	PRESSURE TREATED
CONT	=	CONTINUOUS	REINF	=	REINFORCED
CT	=	COLLAR TIE	REQD	=	REQUIRED
DBL	=	DOUBLE	RJ	=	ROOF JOIST
DIA	=	DIAMETER	RS	=	ROOF SUPPORT
DJ	=	DOUBLE JOIST	SC	=	STUD COLUMN
DR	=	DOUBLE RAFTER	SCH	=	SCHEDULE
EA	=	EACH	SPEC	=	SPECIFIED
EE	=	EACH END	THK	=	THICK
FJ	=	FLOOR JOIST	TJ	=	TRIPLE JOIST
FND	=	FOUNDATION	TRTD	=	TREATED
FTG	=	FOOTING	TYP	=	TYPICAL
GALV	=	GALVANIZED	UNO	=	UNLESS NOTED OTHERWISE
HORIZ	=	HORIZONTAL	W	=	WIDE FLANGE BEAM
HT	=	HEIGHT	WWF	=	WELDED WIRE FABRIC
MANUF	=	MANUFACTURER	XJ	=	EXTRA JOIST



#### MAXIMUM HEIGHT OF DECK SUPPORT POSTS AS FOLLOWS:

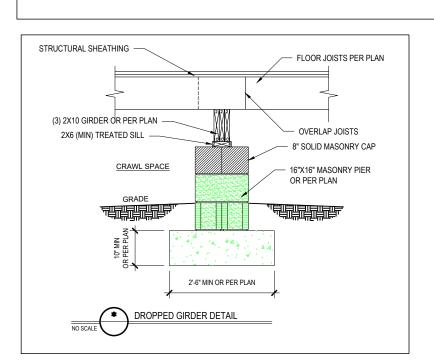
POST SIZE	MAX. POST HEIGHT**	
4 x 4	8'-0"	
6 x 6	20'-0"	
***	OVER 20'-0"	

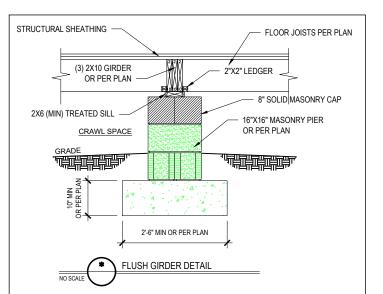
- THIS TABLE IS BASED ON NO. 2 TREATED SOUTHERN PINE POSTS. MAXIMUM TRIBUTARY AREA IS BASED ON 128 TOTAL SQUARE FEET WHICH MAY BE LOCATED AT DIFFERENT LEVELS.
- FROM TOP OF FOOTING TO BOTTOM OF GIRDER DECKS WITH POST HEIGHTS OVER 20'-0" SHALL BE DESIGNED AND SEALED BY A PROFESSIONAL ENGINEER OR REGISTERED ARCHITECT.
- 2) DECKS SHALL BE BRACED TO PROVIDE LATERAL STABILITY BY ONE OF
- THE DECK FLOOR HEIGHT IS LESS THAN 4'-0" AND THE DECK IS ATTACHED TO THE STRUCTURE IN ACCORDANCE WITH SECTION (4) ABOVE, LATERAL BRACING IS NOT REQUIRED. 4 x 4 WOOD KNEE BRACES MAY BE PROVIDED ON EACH COLUMN IN
- BOTH DIRECTIONS. THE KNEE BRACES SHALL ATTACH TO EACH POST AT A POINT NOT LESS THAN 1/3 OF THE POST LENGTH FROM THE TOP OF THE POST, AND THE BRACES SHALL BE ANGLED BETWEEN 45° AND 60° FROM THE HORIZONTAL KNEE BRACES SHALL BE BOLTED.
- 49 AND OF FROM THE FORECHINE. INSEE BRACES SHALL BE BOLTED TO THE POST AND GIRDER WITH ONE 5/8"Ø HOT DIPPED GALVANIZED BOLT AT EACH END OF THE BRACE.

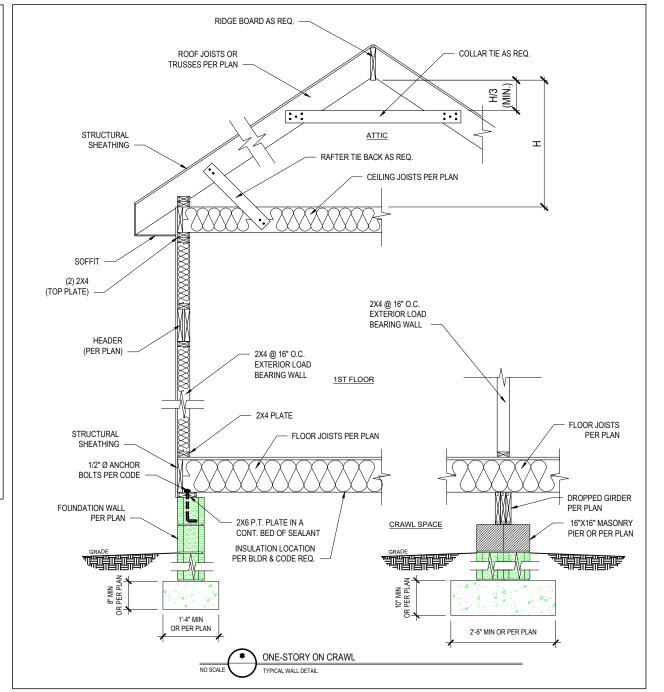
  C. FOR FREESTANDING DECKS WITHOUT KNEE BRACES OR DIAGONAL BRACING, LATERAL STABILITY MAY BE PROVIDED BY EMBEDDING THE POSTS IN ACCORDANCE WITH THE FOLLOWING:

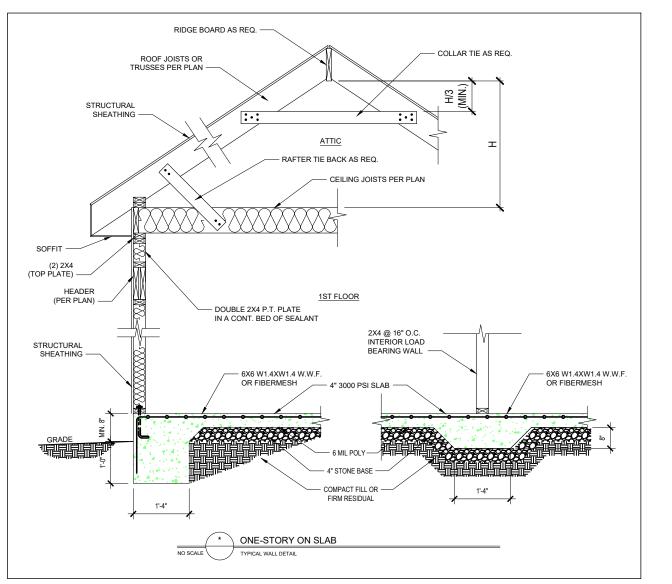
POST SIZE	MAX. TRIBUTARY AREA	MAX. POST HEIGHT	EMBEDMENT DEPTH	CONCRETE DIAMETER
4 x 4	48 SQ. FT.	4'-0"	2'-6"	1'-0"
6 x 6	120 SQ. FT.	6'-0"	3'-6"	1'-8"

- D. 2 x 6 DIAGONAL VERTICAL CROSS BRACING MAY BE PROVIDED IN TWO THE 2 x 6s SHALL BE ATTACHED TO THE POSTS WITH ONE 5/8"Ø HOT
- DIPPED GALVANIZED BOLT AT EACH END OF EACH BRACING MEMBER. E. FOR EMBEDMENT OF PILES IN COASTAL REGIONS, SEE CHAPTER 46.









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med acceptable once construction



TNDALL GINEERING & DESIGN, P.A.



TYLER PLAN
TERAME OPTIO MARY STICK

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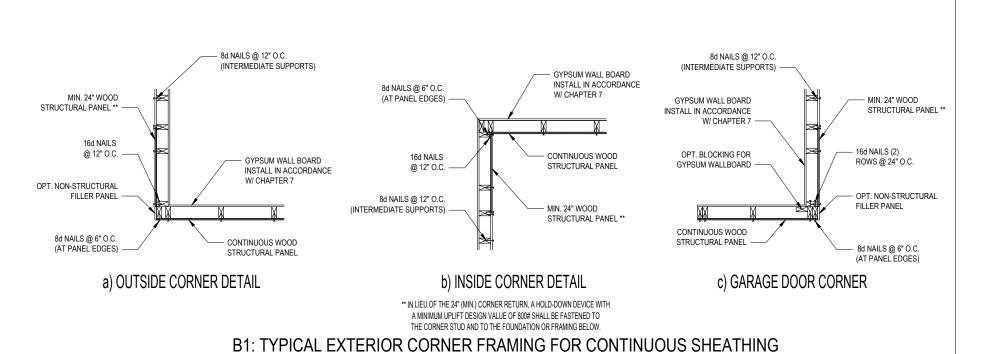
STEVE NORDAN

2001-010506 10/21/20 Drawn/Design By IJE DWG. Checked By: PTII

NOT TO SCALE REVISIONS

Remarks Date:

**Sheet Number** 



#### STRUCTURAL SHEATHING NOTES

NO SCALE

- DESIGNED FOR SEISMIC ZONE A-C AND WIND SPEEDS OF 120 MPH OR LESS.
   WALLS SHALL BE BRACED IN ACCORDANCE WITH SECTION R602.10 OF THE 2018 NCRC
   BRACING REQUIREMENTS SHALL BE PER TABLE R602.10.3. REFER TO SECTION R602.10.4 FOR LOAD PATH DETAILS INCLUDING CONNECTIONS & SUPPORT OF BRACED WALL PANELS.

#### The reference figure R602.10.4.3 OF THE 2018 NCRC.

- INTERIOR BRACED WALL PANELS (BWP) INDICATED SHALL BE SHEATHED IN ACCORDANCE WITH THE GB METHOD OR WSP METHOD AS PRESCRIBED IN SECTION R602.10.1 (UNO)
- 2) 1/2" GYPSUM BOARD (GB) MINIMUM LENGTH OF 8'-0" (ISOLATED PANELS) OR 4'-0" (CONTINUOUS SHEATHING
- (3) 3/8° WOOD STRUCTURAL PANEL (WSP) SECURE W/ 6d COMMON NAILS SPACED AT 6° O.C. AT PANEL EDGES AND 12° O.C. AT INTERMEDIATE SUPPORTS
- 5. EXTERIOR BRACED WALL PANELS (BWP) SHALL BE CONSTRUCTED IN ACCORDANCE WITH CS-WSP METHOD AS PRESCRIBED IN SECTION R602 10.3 (UNO)

  6. ALL SHEATHABLE SURFACES OF EXTERIOR WALLS (INCLUDING AREAS ABOVE AND BELOW OPENINGS AND GABLE END WALLS) SHALL BE CONTINUOUSLY SHEATHED WITH WOOD STRUCTURAL PANEL (WSP) SHEATHING WITH A MINIMUM THICKNESS OF 38°. SHEATHING SHALL BE SECURED WITH MINIMUM 64 COMMON NAILS SPACED AT 6°. O.C. AT PANEL EDGES AND SPACED AT 12° O.C. AT INTERMEDIATE SUPPORTS.

  7. MINIMUM BRACED WALL PANEL LENGTHS WITH CS-WSP METHOD SHALL BE AS FOLLOWS:

  24° ADJACENT TO OPENINGS NOT MORE THAN 67% AND LESS THAN 85% OF WALL HEIGHT

  49° FOR OPENINGS GREATER THAN 85% OF WALL HEIGHT

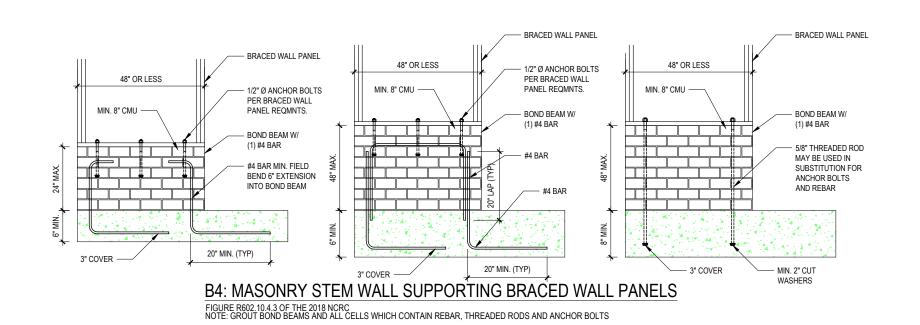
## 4 SHEATH INTERIOR AND EXTERIOR

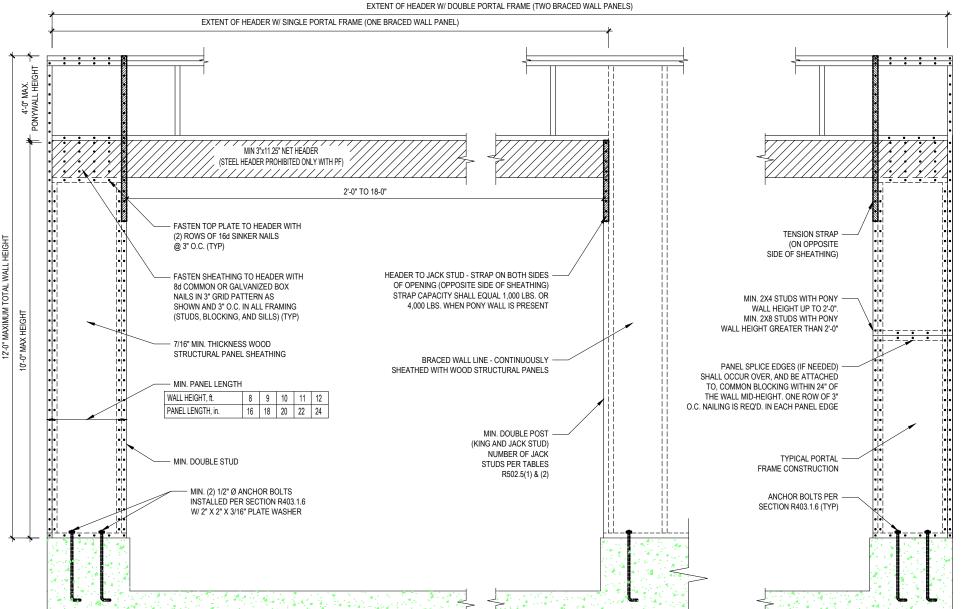
8. FOR CS-WSP METHOD, A MINIMUM 24" BRACED WALL PANEL CORNER RETURN SHALL BE PROVIDED AT BOTH ENDS OF A BRACED WALL LINE IN ACCORDANCE WITH FIGURE R602-10.3 (4). IN LIEU OF A CORNER RETURN, EITHER A MINIMUM 49" BRACED WALL PANEL SHALL BE PROVIDED AT THE CORNER OR A HOLD-DOWN DEVICE WITH A MINIMUM UPLIFT DESIGN VALUE OF 800# SHALL BE FASTENED TO THE EDGE OF THE BRACED WALL PANEL CLOSEST TO THE CORNER AND TO THE FOUNDATION OR FRAMING BELOW

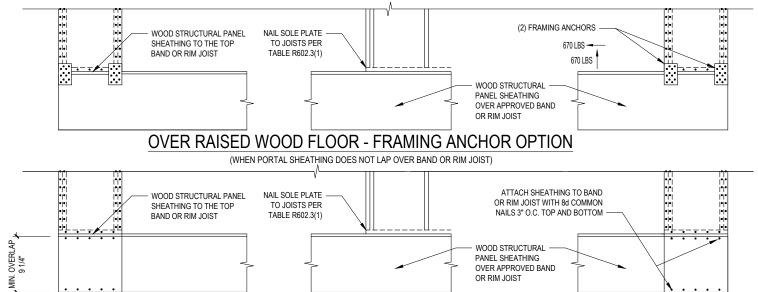
5 MINIMUM 800# HOLD-DOWN DEVICE

REQUIRED BRACED WALL PANEL CONNECTIONS								
			REQUIRED CONNECTION					
METHOD	MATERIAL	MIN. THICKNESS	@ PANEL EDGES	@ INTERMEDIATE SUPPORTS				
CS-WSP	WOOD STRUCTURAL PANEL	3/8"	6d COMMON NAILS @ 6" O.C.	6d COMMON NAILS @ 12" O.C.				
GB	GYPSUM BOARD	1/2"	5d COOLER NAIL** @ 7" O.C.	5d COOLER NAIL** @ 7" O.C.				
WSP	WOOD STRUCTURAL PANEL	3/8"	6d COMMON NAILS @ 6" O.C.	6d COMMON NAILS @ 12" O.C.				

\*\*OR EQUIVALENT PER TABLE R702.3.5 **B3: BRACE WALL PANEL CONNECTIONS** NO SCALE







OVER CONCRETE OR MASONRY BLOCK FOUNDATION

OVER RAISED WOOD FLOOR - OVERLAP OPTION (WHEN PORTAL SHEATHING LAPS OVER BAND OR RIM JOIST)

B2: METHOD CS-PF: CONTINUOUSLY SHEATHED PORTAL FRAME

means, methods, techniques, sequences, procedures or safety precaution. Any deviations or discrepancies on \* Any deviations or discrepancies on plans are to be brought to the immediate attention of Tyndall Engineering & Design, P.A. Failure to do so will void Tyndall Engineering & Design, P.A. liability. \* Please review these documents carefully. Tyndall Engineering & Design, P.A. will interpret that all dimensions, recommendations, etc. presented in these documents were deemed seconstruction.



TYNDALL ENGINEERING & DESIGN, P.A



MARY TYLER PLAN STICK FRAME OPTION

2001-010506 10/21/20 Drawn/Design By IJE DWG. Checked By: PTII

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