

ATTIC SPACE VENTILATION

1118 SQ. FT. OF CLG. / 150 = 7.45 SQ. FT. REQUIRED

REFER TO SECTION R806 (ROOF VENTILATION) IN NORTH CAROLINA STATE 2018 INTERNATIONAL RESIDENTIAL BUILDING CODES.

	MEAN ROO					
Soffit Hgt. From Assumed Grade	+ Highest Ridge Hgt. From Assumed Grade	÷ 2		= Mean Hgt.	Roof	
18'-6"	+ 29'-10"	÷ 2	= 24'-2"	Mean	Roof	Hgt.

06/02/2020

314 W MAIN STREET CLAYTON, NC 27520

DA



Slab Elev"C"

Sequoia

HECKED 7/13/15

HEET 1C

Sawyer Ridge Lot 7 - 145 Longfield Court

DATE: 04/28/2023

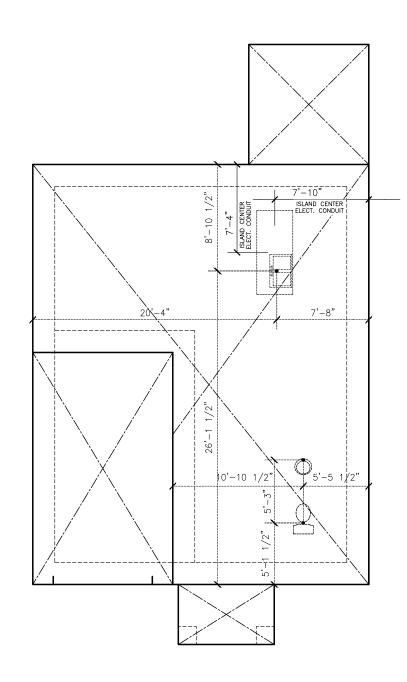
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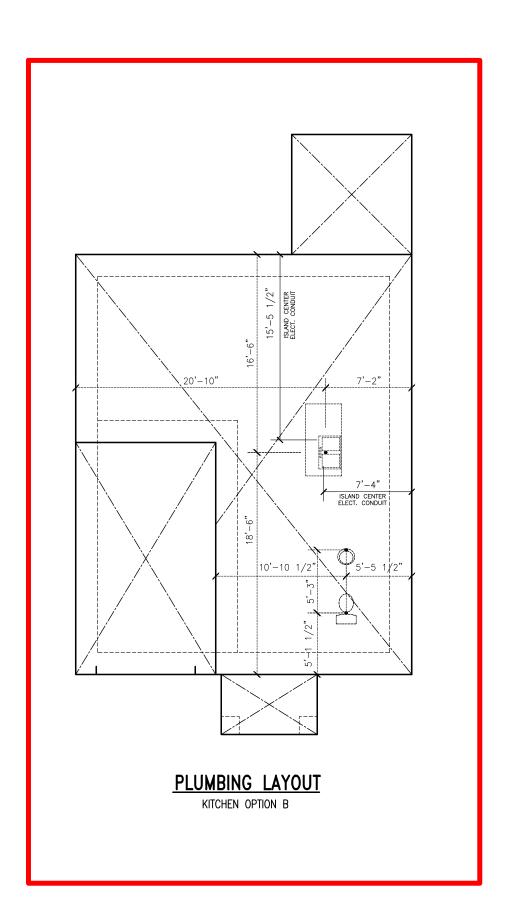
PLUMBING

2

OF 8



PLUMBING LAYOUT
KITCHEN OPTION A

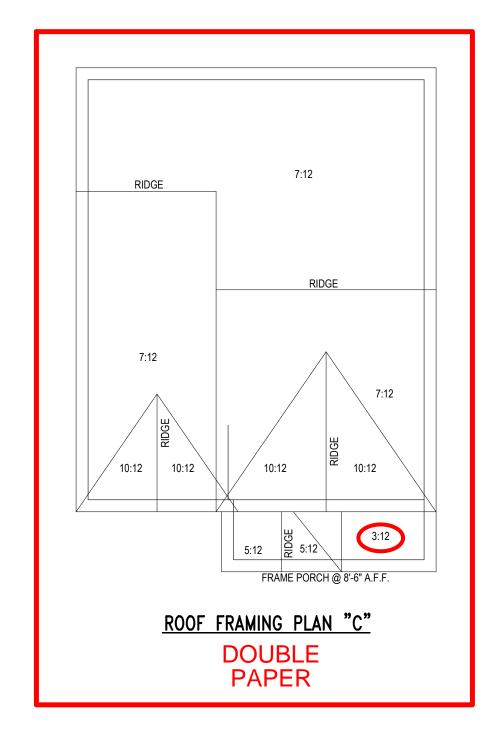


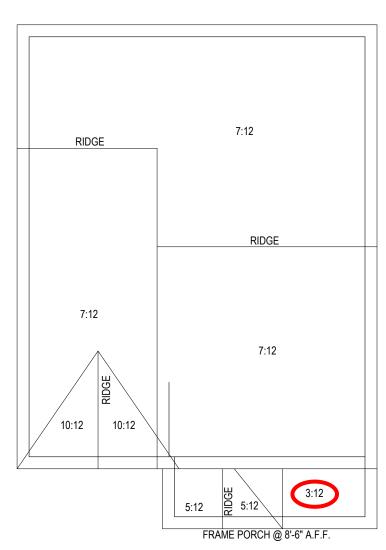
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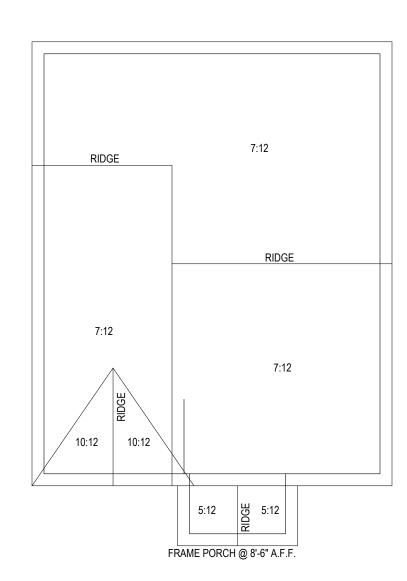
ROOF

OF 8





ROOF FRAMING PLAN "B" DOUBLE PAPER



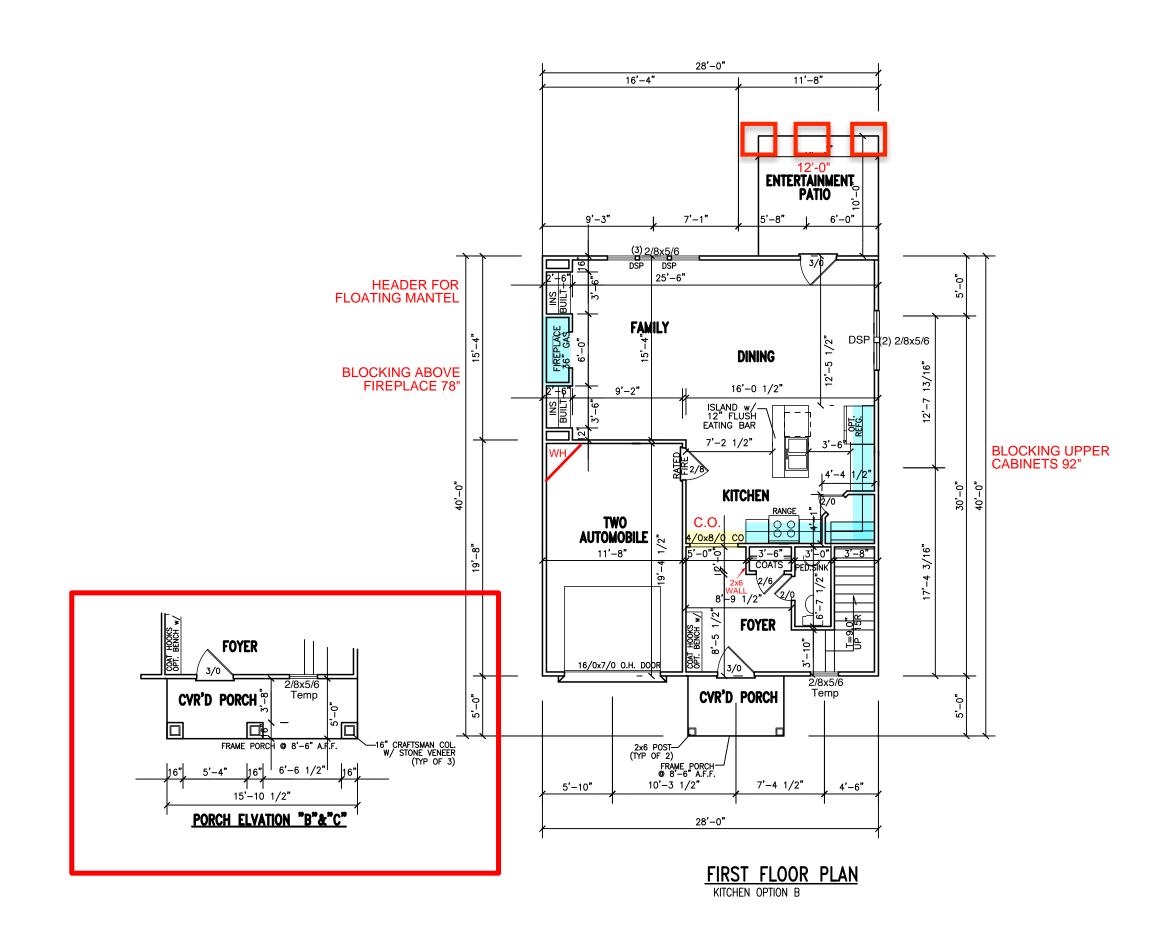
ROOF FRAMING PLAN "A"

DRAWN BY: MMB

CHECKED BY:

1ST FLOOR

 $4B_{\text{OF 8}}$





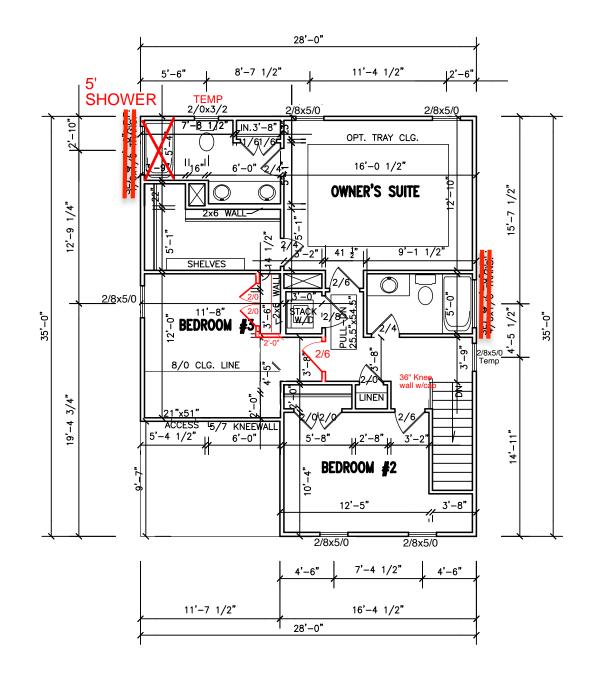


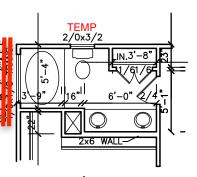
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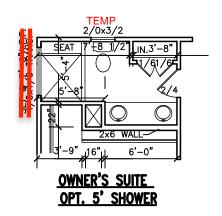
2ND FLOOR







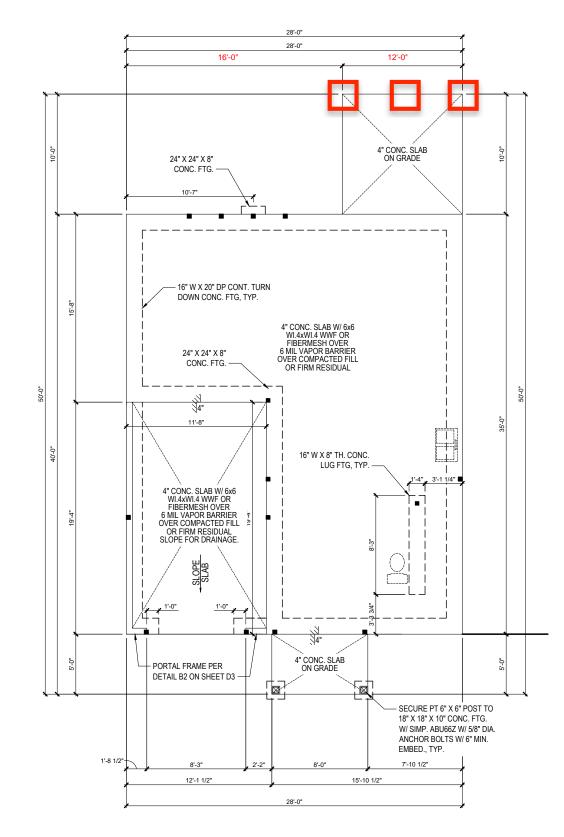
OWNER'S SUITE OPT. GARDEN TUB/SHOWER

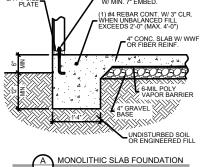


SECOND FLOOR PLAN

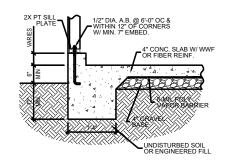
2ND FLOOR PLAN NOTES:

- 1) 8'-0" CLG. HOT. (8'-1 1/2" PLT. HGT.)
 UNLESS OTHERWISE NOTED.
 2) ALL EXTERIOR WALLS FIGURED AT 4"NOMINAL
 WIDTHS UNLESS OTHERWISE NOTED.
 3) ALL INTERIOR WALLS FIGURED AT 3 1/2"
 WIDTHS UNLESS OTHERWISE NOTED.
 4) SET WINDOWS AT 6"-8" A.F.F.
 UNLESS OTHERWISE NOTED.
 5) DIMENSIONS ARE TO FRAMING
 UNLESS OTHERWISE NOTED.









MONO. SLAB FOUNDATION @ GARAGE

DESIGN LOADS

	LIVE LOAD (PSF)	DEAD LOAD (PSF)	DEFLECTION	
	(,	(/	LL	TL
FLOOR (primary)	40	10	L/360	L/240
FLOOR (secondary)	40	10	L/360	L/240
ATTIC (w/ storage)	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 MPH (EXPOSURE B)			
SEISMIC	BASED ON SEISMIC ZONES A. B & C			

- 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.
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 IT IS THE CONTRACTORS RESPONSIBILITY OVERIFY ALL DIMENSIONS
 AND SQUARE FOOTAGE FRIOR TO CONSTRUCTION. TYNDALL
 ENGINEERING & DESIGN, PA IS NOT RESPONSIBLE FOR DIMENSIONS
 AND SQUARE FOOTAGE ERRORS ONCE CONSTRUCTION BEGINS.
 ALL LUMBER SHALL BE SYP #2 (UNO)
 ALL LUL LUMBER TO BE 1.75 WIDE NOMINAL EACH SINGLE MEMBER AND
- Fb = 2600 PSI, E = 1.9M PSI
- (I.E. 124VE)

 (I.E. 124VE)

 (I.E. 124VE)

 ALL I.SL LUMBER IS TO BE 1.55E (Fb = 2325 PSI)

 ALL LOAD BEARING EXTERIOR WINDOW HEADERS ARE TO BE (2) 2x10 w/

 (1) 2x4 JACK STUD (U.N.O.) AND KING STUDS PER TABLE R602.7.5, AND
- (1) 247 JULY, STOL OF THE THAT THE TOP OF THE WINDOW HEIGHT IS 6.9°C. C., PROVIDED THAT THE TOP OF THE WINDOW HEIGHT IS 6.9°C. MINIMUM BOTTOM OF THE WINDOW HEIGHT IS 1.5°C. THERWINDS REFER TO TABLES REGOZ. (T), AND REGOZ. (2). ALL INTERIOR LOAD BEARING HEADERS TO BE (2) 2.1°C (U.N.O.) REFORM TO TABLES REGOZ. (T)) AND REGOZ. (7) FOR JACK STUD REQUIREMENTS FOR HEADER SPANS FOR INTERIOR AND EXTERIOR LOAD CONDITIONS JULY).
- (UND)
 REFER TO 2018 NC BUILDING CODE SECTION R602 FOR CONSTRUCTION
 OF ALL WALLS OVER 10°.0" IN HEIGHT.
 ALL STRUCTURAL STEEL SHALL BE ASTIM A992 GRADE 50
 FY = 50 KISI MIN, (UNO)
 ALL EXTERIOR LUMBER TO BE #2 SYP PT
 ALL CONCRETE for = 3000 PSI MIN.
 PRESUMPTIVE BEARING CAPACITY = 2000 PSF

- 17/20 ANCHOR BOLTS SPACED AT MAXIMUM OF 6-0" O.C. AND NOT MORE THAN 12" FROM THE CORNER. THERE SHALL BE A MINIMUM OF (2) BOLTS PER PLATE SECTION. ANCHOR BOLTS SHALL BE SPACED AT 3" O" C. FOR BASEMENTS. ANCHOR BOLT SHALL EXTEND 7" INTO CONCRETE OR
- MASONRY.
 PSL COLUMNS DESIGNED WITH MAX. HEIGHT OF 9'-0" (UNO)
- PROVIDE A MINIMUM OF 500# UPLIFT & LATERAL CONNECTION AT TOP AND BOTTOM OF PORCH COLUMNS. (U.N.O.)
 PROVIDE CONTINUOUS SHEATHING PER SECTION 602.10.4 OF THE 2018
- LEAST HORIZONTAL DIMENSION.
 UPLIFT LOADS GREATER THAN 500# SHALL BE CONTINUOUSLY
- ANCHORED TO THE FOUNDATION.

 METAL HANGERS SHALL BE SIMPSON OR APPROVED EQUAL.

Engineers seal does not include cor procedures or safety precautio

& Design, P.A. liability. Please review these docu

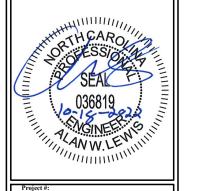
Any deviations or discrepancies on plans are to be brought to the immediate attention of Tyndall Engineering & Design, P.A. Failure to do so will void Tyndall Engineering

Tyndall Engineering & Design, P.A. will interpret that all dimensions, recommendetc. presented in these documents were



Drive

SEQUOIA - 1 CAR GARAGE LEFT



Project #: DRB2201-0306
Date: 10/18/22
Engineered By: AM
DWG. Checked By: AWL
SEE PLAN
REVISIONS

Sheet Number

S₁A

1 of 7



1/4" = 1'-0" (24"x36")

4" CONC. SLAB ON GRADE

15'-10 1/2"

6'-6 1/2"

- 16" X 16" MASONRY PIER ON A 24" X 24" X 10"

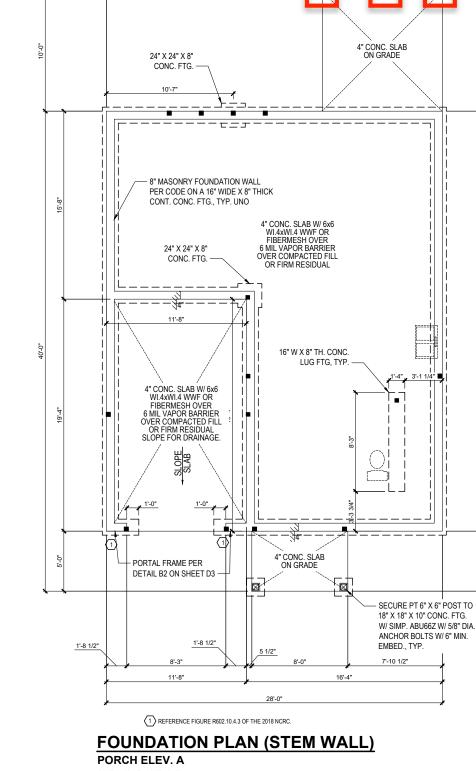
CONC. FTG., TYP. OF 3

SECURE PT 6" X 6" POST TO

MASONRY PIERS W/ SIMP.

ABU66Z W/ 5/8" DIA. ANCHOR

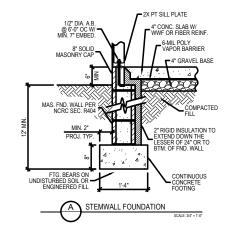
BOLTS W/ 6" MIN. EMBED., TYP.



28'-0"

12'-0"

16'-0"



DESIGN LOADS

	LIVE LOAD (PSF)	DEAD LOAD (PSF)	DEFLE	CTION	
	(, o,)	(F31)	LL	TL	
FLOOR (primary)	40	10	L/360	L/240	
FLOOR (secondary)	40	10	L/360	L/240	
ATTIC (w/ storage)	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 MPH (EXPOSURE B)				
SEISMIC	BASED ON SEISMIC ZONES A, B & C				

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- ALL LUMBER SHALL BE SYP #2 (UNO)
 ALL LVL LUMBER TO BE 1.75" WIDE NOMINAL EACH SINGLE MEMBER AND Fb = 2600 PSI, E = 1.9M PSI
- (I.E. 124VE)

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 (I.E. 124VE)

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 ALL LOAD BEARING EXTERIOR WINDOW HEADERS ARE TO BE (2) 2x10 w/

 (1) 2x4 JACK STUD (U.N.O.) AND KING STUDS PER TABLE R602.7.5, AND TOGETHER W (2) 10d NAILS @ 8" O.C., PROVIDED THAT THE TOP OF THE WINDOW HEIGHT IS 6"-8", MINIMUM BOTTOM OF THE WINDOW HEIGHT IS
- WINDOW HEIGHT IS 0-5, MINIMUM BUT TOM OF THE WINDOW HEIGHT IS 16-6. OTHERWISE REFER TO TABLES RROD; ZI/) AND ROD; ZI/). ALL INTERIOR LOAD BEARING HEADERS TO BE (2) 2x0 (U.N.O.) REFER TO TABLES RBOZ; ZI/) AND ROD; ZI/) FOR JACK STUD REQUIREMENTS FOR HEADER SPANS FOR INTERIOR AND EXTERIOR LOAD CONDITIONS
- (UND)
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 PSL COLUMNS DESIGNED WITH MAX. HEIGHT OF 9'-0" (UNO)
- PROVIDE A MINIMUM OF 500# UPLIFT & LATERAL CONNECTION AT TOP AND BOTTOM OF PORCH COLUMNS. (U.N.O.)
 PROVIDE CONTINUOUS SHEATHING PER SECTION 602.10.4 OF THE 2018
- IRC.
 MAXIMUM MASONRY PIER HEIGHT SHALL NOT EXCEED FOUR TIMES ITS
- LEAST HORIZONTAL DIMENSION.
 UPLIFT LOADS GREATER THAN 500# SHALL BE CONTINUOUSLY
- ANCHORED TO THE FOUNDATION.

 METAL HANGERS SHALL BE SIMPSON OR APPROVED EQUAL.





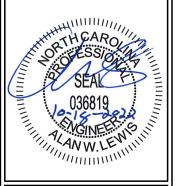
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SEQUOIA - 1 CAR GARAGE LEFT



Project #: DRB2201-0306	
<u>Date:</u> 10/18/22	
Engineered By: AM	
DWG. Checked By: AWL	
Scale: SEE PLAN	
REV	VISIONS
No. Date:	Remarks

	REVISIONS				
No.	Date:	Remarks			
$\overline{\mathbb{A}}$					
<u>^2</u>					
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4					

Sheet Number

S₁B

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1/8" = 1'-0" (11"x17") 1/4" = 1'-0" (24"x36")

4" CONC. SLAB ON GRADE

15'-10 1/2"

PORCH ELEV. B & C

1/8" = 1'-0" (11"x17")

1/4" = 1'-0" (24"x36")

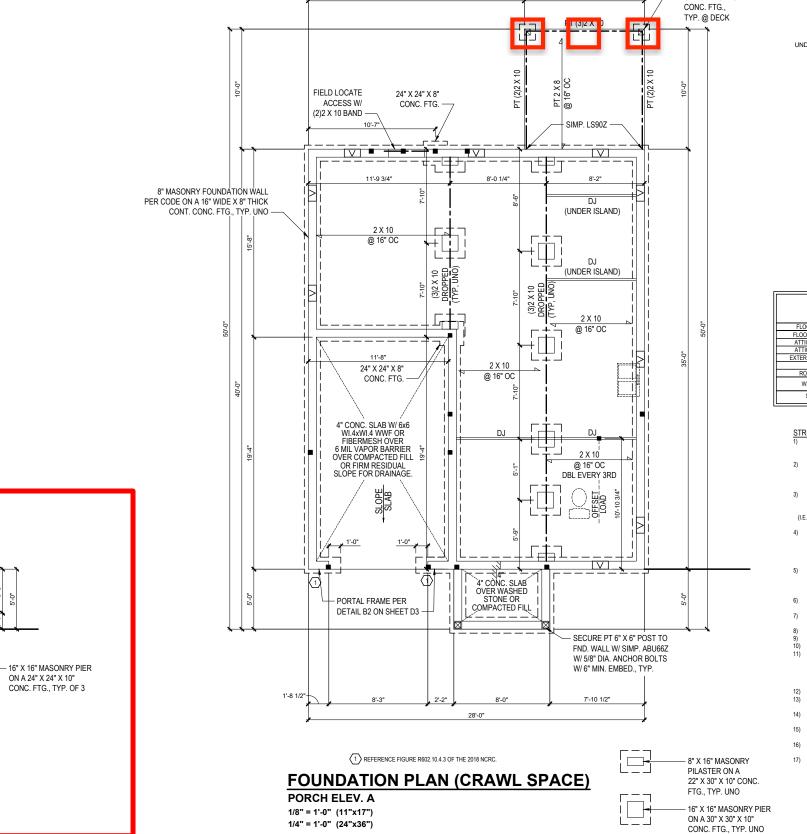
16" X 16" MASONRY PIER

ON A 24" X 24" X 10" CONC. FTG., TYP. OF 3

SECURE PT 6" X 6" POST TO MASONRY PIERS W/ SIMP

ABU66Z W/ 5/8" DIA. ANCHOR

BOLTS W/ 6" MIN. EMBED., TYP.



4**

4" CONC SLAB OVER

WASHED STONE OR COMPACTED FILL

15'-10 1/2"

PORCH ELEV. B & C

1/8" = 1'-0" (11"x17")

1/4" = 1'-0" (24"x36")

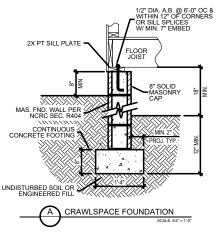
SECURE PT 6" X 6" POST TO

MASONRY PIERS W/ SIMP.

ABU66Z W/ 5/8" DIA. ANCHOR

BOLTS W/ 6" MIN. EMBED., TYP.

16'-0"



- PT 6" X 6" POST

ON 16" X 16" X 8"

12'-0"

DESIGN LOADS

	LIVE LOAD (PSF)	DEAD LOAD (PSF)	DEFLE	CTION	
	(/	(/	LL	TL	
FLOOR (primary)	40	10	L/360	L/240	
FLOOR (secondary)	40	10	L/360	L/240	
ATTIC (w/ storage)	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 MPH (EXPOSURE B)				
SEISMIC	BASED ON SEISMIC ZONES A, B & C				

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- ALL LUMBER SHALL BE SYP #2 (UNO)
 ALL LVL LUMBER TO BE 1.75" WIDE NOMINAL EACH SINGLE MEMBER AND Fb = 2600 PSI, E = 1.9M PSI
- (I.E. ILEVIE MICROLAM)
 ALL LSL LUMBER IS TO BE 1.55E (Fb = 2325 PSI)
 ALL LOAD BEARING EXTERIOR WINDOW HEADERS ARE TO BE (2) 2x10 w/
 (1) 2x4 JACK STUD (U.N.O.) AND KING STUDS PER TABLE R602.7.5, AND TOGETHER W/ (2) 10d NAILS @ 8" O.C., PROVIDED THAT THE TOP OF THE WINDOW HEIGHT IS 6'-8", MINIMUM BOTTOM OF THE WINDOW HEIGHT IS
- 1-6-. OTHERWISE REFER TO TABLES R602.7(1) AND R602.7(2)
 ALL INTERIOR LOAD BEARING HEADERS TO BE (2) 2x10 (U.N.O.) REFER
 TO TABLES R602.7(1) AND R602.7(2) FOR JACK STUD REQUIREMENTS
 FOR HEADER SPANS FOR INTERIOR AND EXTERIOR LOAD CONDITIONS
- REFER TO 2018 NC BUILDING CODE SECTION R602 FOR CONSTRUCTION
- REFER TO 2018 NO SUILDING CODE SECTION R602 FOR CON OF ALL WALLS OVER 10-0" IN HEIGHT. ALL STRUCTURAL STEEL SHALL BE ASTM A992 GRADE 50 Fy = 50 KSI MIN. (UNC) ALL EXTERIOR LUMBER TO BE #2 SYP PT ALL CONCRETE. fc = 3000 FSSI MIN PRESUMPTIVE BEARING CAPACITY = 2000 PSF

- 17/20 ANCHOR BOLTS SPACED AT MAXIMUM OF 6-0" O.C. AND NOT MORE THAN 12" FROM THE CORNER. THERE SHALL BE A MINIMUM OF (2) BOLTS FREP LATE SECTION. ANCHOR BOLTS SHALL BE SPACED AT 3" O' C. FOR BASEMENTS. ANCHOR BOLT SHALL BE SPACED AT 3" O' C.
- MASONRY.
 PSL COLUMNS DESIGNED WITH MAX. HEIGHT OF 9'-0" (UNO)
- PROVIDE A MINIMUM OF 500# UPLIFT & LATERAL CONNECTION AT TOP AND BOTTOM OF PORCH COLUMNS. (U.N.O.)
 PROVIDE CONTINUOUS SHEATHING PER SECTION 602.10.4 OF THE 2018
- IRC.
 MAXIMUM MASONRY PIER HEIGHT SHALL NOT EXCEED FOUR TIMES ITS
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 16) UPLIFT LOADS GREATER THAN 500# SHALL BE CONTINUOUSLY
- ANCHORED TO THE FOUNDATION.

 METAL HANGERS SHALL BE SIMPSON OR APPROVED EQUAL.

Engineers seal does not include co procedures or safety precau

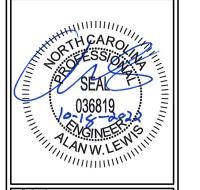
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SEQUOIA - 1 CAR GARAGE LEFT



No.	Date:	Remarks		
REVISIONS				
-	cale: EE PLAN			
A	WG. Checked By: AWL			
	ngineered By: AM			
	ate: 0/18/22			
	roject #: DRB2201-0306			

Sheet Number

S₁C

1 of 7

CONT. (2)2 X 12 (OR) (2)9-1/4" LVL BWL 1 BWL 1 14" I-JOISTS PER MANUF 14" I-JOISTS PER MANUF 14" I-JOISTS PER MANUF. 280 (2)14" LVL 14" I-JOISTS PER MANUF BWL 2 BWL 2 짇띴 PER MANUF. (2)2 X 12 W/ 2SC E/E PORTAL FRAME EACH END ROOF TRUSSES PER DETAIL B2 ON SHEET D3 PER MANUF - PT 6" X 6" POSTS W/ (2)SIMP. LCE4Z, TYP. BRACING PANEL LENGTHS REQUIRED: BWL A = 8.2 FT BWL B = 8.2 FT BWL 1 = 8.0 FT BWL 2 = 8.0 FT

*NOTE: SECURE 4-PLY W/ 1/2"Ø THRU-BOLTS @ 24" O.C. (OR EQUIV. STRUCTURAL SCREWS)

ROOF TRUSSES

PER MANUF.

PORCH ELVATION "B"&"C"

BRACING PANEL LENGTHS PROVIDED: BWL A = 28.0 FT CS-WSP BWL B = 35.0 FT CS-WSP BWL 1 = 17.33 FT CS-WSP BWL 2 = 16.5 FT CS-WSP / PF

FIRST FLOOR PLAN

1/8" = 1'-0" (11"x17")

1/4" = 1'-0" (24"x36")

PT 6" X 6" POSTS W/ (2)SIMP, LCE4Z @ CORNER POSTS & (2) SIMP. AC6Z

@ INTERMEDIATE POSTS, TYP.

DESIGN LOADS

	LIVE LOAD (PSF)	DEAD LOAD (PSF)	DEFLE	CTION
	(- /	(- /	LL	TL
FLOOR (primary)	40	10	L/360	L/240
FLOOR (secondary)	40	10	L/360	L/240
ATTIC (w/ storage)	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	BAS	SED ON 120 MPH (E	XPOSURE B)	
SEISMIC	BASED ON SEISMIC ZONES A, B & C			

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 ALL LUMBER TO BE 1.75" WIDE NOMINAL EACH SINGLE MEMBER AND
- Fb = 2600 PSI, E = 1.9M PSI (I.E. ILEVEL MICROLAM)
- E. LLEVEL MICKOLAM)
 ALL ISL LUMBER IS TO BE 1.55E (Fb = 2325 PSI)
 ALL LOAD BEARING EXTERIOR WINDOW HEADERS ARE TO BE (2) 2x10 w
 (1) 2x4 JACK STUD (U.N.O.) AND KING STUDS PER TABLE R802.7.5, AND
 TOGETHER w. (2) 10d NAILS @ 8" O.C., PROVIDED THAT THE TOP OF THE
 WINDOW HEIGHT IS 6".8", MINIMUM BOTTOM OF THE WINDOW HEIGHT IS
 1-6". OTHERWISE REFER TO TABLES R802.7(1) AND R802.7(2).
- ALL INTERIOR LOAD BEARING HEADERS TO BE (2) 2x10 (U.N.O.) REFER TO TABLES R602.7(1) AND R602.7(2) FOR JACK STUD REQUIREMENTS FOR HEADER SPANS FOR INTERIOR AND EXTERIOR LOAD CONDITIONS
- (UNO)
 REFER TO 2018 NC BUILDING CODE SECTION R602 FOR CONSTRUCTION OF ALL WALLS OVER 10'-0" IN HEIGHT.
- ALL STRUCTURAL STEEL SHALL BE ASTM A992 GRADE 50

- ALL STRUCTURAL SI EEL SHALL BE AS IM A992 GRADE 50
 FY = 50 KS IM, (UNO)
 ALL EXTERIOR LUMBER TO BE #2 SYP PT
 ALL CONCRETE, fo = 3000 PS IMIN.
 PRESUMPTIVE BEARING CAPACITY = 2000 PSF
 1/2"Ø ANCHOR BOLTS SPACED AT MAXIMUM OF 6-0" O.C. AND NOT MORE
- THAN 12" FROM THE CORNER, THERE SHALL BE A MINIMUM OF (2) BOLTS. PER PLATE SECTION, ANCHOR BOLTS SHALL BE SPACED AT 3'-0" O.C. PER FOATE SECTION. ANOTHOR BOLTS STAILE BE STAILED AT 3-0.00 CU.
 FOR BASEMENTS. ANOTHOR BOLT SHALL EXTEND 7" INTO CONCRETE OR MASONRY.
 PSL COLUMNS DESIGNED WITH MAX. HEIGHT OF 9-0" (UNO)
 PROVIDE A MINIMUM OF 500# UPLIFT & LATERAL CONNECTION AT TOP
- AND BOTTOM OF PORCH COLUMNS. (U.N.O.)
- PROVIDE CONTINUOUS SHEATHING PER SECTION 602.10.4 OF THE 2018
- INC.

 15) MAXIMUM MASONRY PIER HEIGHT SHALL NOT EXCEED FOUR TIMES ITS LEAST HORIZONTAL DIMENSION.

 16) UPLIFTLOADS GREATER THAN 500# SHALL BE CONTINUOUSLY
- ANCHORED TO THE FOUNDATION.
- METAL HANGERS SHALL BE SIMPSON OR APPROVED EQUAL.

STRUCTURAL SHEATHING NOTES

- 1) DESIGNED FOR SEISMIC ZONE A-C AND WIND SPEEDS OF 120 MPH OR
- WALLS SHALL BE BRACED IN ACCORDANCE WITH SECTION R602.10 OF
- 2) WALLS STALL BE BRAUED IN ACCOMMENCE WITH SECTION ROUZED. THE 2018 NORC.
 3) BRACING REQUIREMENTS SHALL BE PER TABLE R602.10.3.
 REFER TO SECTION ROUZED AFOR LOAD PATH DETAILS INCLUDING CONNECTIONS & SUPPORT OF BRACED WALL PANELS.
- 1 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). SECURE w/ 5d COOLER NAILS (OR EQUAL PER TABLE R702.3.5) SPACED @ 7" O.C. AT PANEL EDGES, INCLUDING TOP AND BOTTOM PLATES & 7" O.C. AT INTERMEDIATE SUPPORTS
- 3) 3/6" WOOD STRUCTURAL PANEL (WSP) SECURE W/6d COMMON NAILS SPACED AT 6" O.C. AT PANEL EDGES AND 12" O.C. AT INTERMEDIATE SUPPORTS
- EXTERIOR BRACED WALL PANELS (BWP) SHALL BE CONSTRUCTED IN ACCORDANCE WITH CS-WSP METHOD AS PRESCRIBED IN SECTION R602.10.3 (UNO)
 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 3/8". SHEATHING SHALL BE SECURED WITH MINIMUM 6d COMMON NAILS SPACED AT 6" O.C. AT PANEL EDGES AND SPACED AT 12" O.C. AT INTERMEDIATE SUPPORTS. MINIMUM BRACED WALL PANEL LENGTHS WITH CS-WSP METHOD SHALL
- MINIMUM BRACED WALL PANEL LENGT IS WITH CS-WSP
 BE AS FOLLOWS: INT TO OPENINGS NOT MORE THAN
 67% OF WALL HEIGHT
 30" ADJACENT TO OPENINGS GREATER THAN
 67% AND LESS THAN 85% OF WALL HEIGHT
 48" FOR OPENINGS GREATER THAN 85% OF
 WALL HEIGHT
- 4 SHEATH INTERIOR & EXTERIOR
- 8) FOR CS-WSP METHOD A MINIMUM 24" BRACED WALL PANEL CORNER FOR GS-WS-P METHOU, A MINIMUM 24 BRACLED WALL PAINEL 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 MIN. 48" 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
- 5 MINIMUM 800# HOLD-DOWN DEVICE

Engineers seal does not include conprocedures or safety precaution

- Any deviations or discrepancies on plans are to be brought to the immediate attention of Tyndall Engineering & Design, P.A. Fallure to do so will void Tyndall Engineering
- & Design, P.A. liability. Please review these docu Tyndall Engineering & Design, P.A. will interpret that all dimensions, recommen etc. presented in these documents were





773-1200 = #9197 = North Carolina - wsyndallengineeri



Project #: DRB2201-0306 Date: 10/18/22 Engineered By AM DWG. Checked By AWL

REVISIONS

Sheet Number

DESIGN LOADS

	LIVE LOAD (PSF)	DEAD LOAD (PSF)	DEFLECTION	
	(/	()	LL	TL
FLOOR (primary)	40	10	L/360	L/240
FLOOR (secondary)	40	10	L/360	L/240
ATTIC (w/ storage)	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 MPH (EXPOSURE B)			
SEISMIC	BASED ON SEISMIC ZONES A, B & C			:

- STRUCTURAL NOTES:

 1) ALL CONSTRUCTION SHALL CONFORM TO THE LATEST REQUIREMENTS
 OF "NORTH CAROLINA STATE 2018 RESIDENTIAL BUILDING CODE", IN
- OF NORTH CAROLINA STATE 2 UN RESIDENTIAL SUITLING CODE, IN ADDITION TO ALL LOCAL CODES AND REGULATIONS.
 IT IS THE CONTRACTORS RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND SQUARE FOOTAGE PRIOR TO CONSTRUCTION TYDIALL ENGINEERING & DESIGN, PA IS NOT RESPONSIBLE FOR DIMENSIONS AND SQUARE FOOTAGE ERRORS ONCE CONSTRUCTION BEGINS.
 ALL LUMBER SHALL BE SYP & (UNO)
 ALL LULL LUMBER TO BE 1.75" WIDE NOMINAL EACH SINGLE MEMBER AND FEB 2020 DE 18 1.75" WIDE NO
- Fb = 2600 PSI, E = 1.9M PSI
- (I.E. ILEVEL MICROLAM)
- E. ILEVEL MICROLAM)
 ALL LSL LUMBER IS TO BE 1.55E (Fb = 2325 PSI)
 ALL LOAD BEARING EXTERIOR WINDOW HEADERS ARE TO BE (2) 2x10 W
 (1) 2x4 JACK STUID (J.N.O.) AND KING STUDS PER TABLE R602.7.5, AND
 TOGETHER W (2) 100 ANALS @ 8° O.C., PROVIDED THAT THE TOP OF THE
 WINDOW HEIGH IS 6°-8° MINIMUM BOTTOM OF THE WINDOW MEIGHT IS
 1-6°, OTHERWINSE REFER TO TABLES R602.7(1) AND R602.7(2).
- ALL INTERIOR LOAD REARING HEADERS TO BE (2) 2x10 (LLN O) REFER TO TABLES R602.7(1) AND R602.7(2) FOR JACK STUD REQUIREMENTS
 FOR HEADER SPANS FOR INTERIOR AND EXTERIOR LOAD CONDITIONS
- (UNO)
 REFER TO 2018 NC BUILDING CODE SECTION R602 FOR CONSTRUCTION
 OF ALL WALLS OVER 10°0° IN HEIGHT.
 ALL STRUCTURAL STEEL SHALL BE ASTM A992 GRADE 50

- ALL STRUCTURAL STEEL SHALL BE ASTM A992 GRADE 50
 Fy = 50 KSIMIN, (UNO)

 ALL EXTERIOR LUMBER TO BE #2 SYP PT

 ALL CONCRETE, C= 3000 PSI MIN.

 PRESUMPTIVE BEARING CAPACITY = 2000 PSF

 12720 ANCHOR BOLTS SPACE OF AT MAXIMUM OF 6"0" O.C. AND NOT MORE

 THAN 12" FROM THE CORNER, THERE SHALL BE A MINIMUM OF (2) BOLTS

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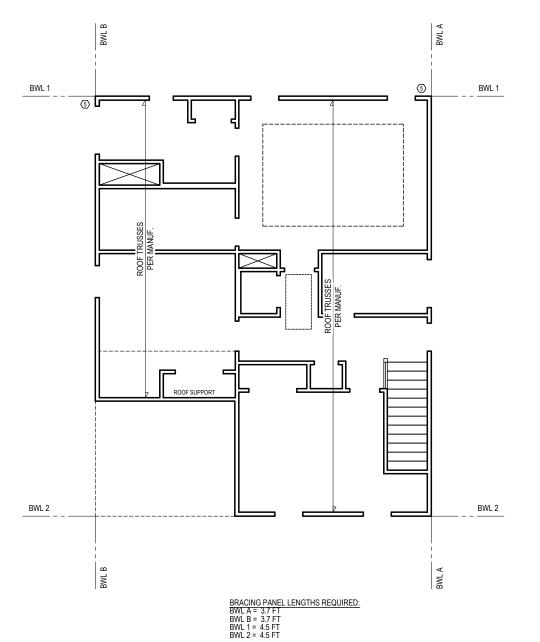
 ARE THERE SHALL BE A MINIMUM OF (2) BOLTS

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 ARE TH PER PLATE SECTION. ANCHOR BOLTS SHALL BE SPACED AT 3'-0" O.C. FOR BASEMENTS. ANCHOR BOLT SHALL EXTEND 7" INTO CONCRETE OR FOR BASEMENTS. ANUTION BULL STRALL EXTEND / INTO CONTROLLE ON MASONRY.

 PSL COLUMNS DESIGNED WITH MAX. HEIGHT OF 9:0" (UNO)
 PROVIDE A MINIMUM OF 500# UPLIET & LATERAL CONNECTION AT TOP
- AND BOTTOM OF PORCH COLUMNS. (U.N.O.)
 PROVIDE CONTINUOUS SHEATHING PER SECTION 602.10.4 OF THE 2018
- INCL.
 MAXIMUM MASONRY PIER HEIGHT SHALL NOT EXCEED FOUR TIMES ITS
 LEAST HORIZONTAL DIMENSION.
 UPLIFT LOADS GREATER THAN 500# SHALL BE CONTINUOUSLY
- ANCHORED TO THE FOUNDATION.
- 17) METAL HANGERS SHALL BE SIMPSON OR APPROVED EQUAL.



BRACING PANEL LENGTHS PROVIDED: BWL A = 27.38 FT CS-WSP BWL B = 13.75 FT CS-WSP BWL 1 = 20.0 FT CS-WSP BWL 2 = 11.71 FT CS-WSP

STRUCTURAL SHEATHING NOTES

- 1) DESIGNED FOR SEISMIC ZONE A-C AND WIND SPEEDS OF 120 MPH OR
- 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.
- 1 REFERENCE FIGURE R602.10.4.3 OF THE 2018 NCRC.
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- 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
- EXTERIOR BRACED WALL PANELS (BWP) SHALL BE CONSTRUCTED IN ACCORDANCE WITH CS-WSP METHOD AS PRESCRIBED IN SECTION R602 (10.3 (INO))
 ALL SHEATHABLE SURFACES OF EXTERIOR WALLS (INCLUDING AREAS ABOVE AND BELOW OPENIOS AND GABLE END WALLS) SHALL BE CONTINUOUSLY SHEATHED WITH WOOD STRUCTURAL PANEL (WSP) SHEATHAND WITH WOOD STRUCTURAL PANEL (WSP) SHEATHAND WITH ALMORINAL THE VIOLENCE OF 2022 PREFATIME CHAIL DESTRUCTION. SHEATHING WITH A MINIMUM THICKNESS OF 3/8". SHEATHING SHALL BE SHEATHING WITH A MINIMUM THICKNESS OF 39°S. SHEATHING SHALL BE SECURED WITH MINIMUM BG COMMON NALLS SPACED AT 6°O. C. AT PANEL EDGES AND SPACED AT 12°O.C. AT INTERMEDIATE SUPPORTS. MINIMUM BRACED WALL PANEL LENGTHS WITH CS-WSP METHOD SHALL BE AS FOLLOWS: -24° ADJACENT TO OPENINGS NOT MORE THAN

- 73 ASSACENT OF CHINGS ATO MORE THAN 67% OF WALL HEIGHT 30" ADJACENT TO OPENINGS GREATER THAN 67% AND LESS THAN 85% OF WALL HEIGHT. 48" FOR OPENINGS GREATER THAN 85% OF WALL HEIGHT
- 4 SHEATH INTERIOR & EXTERIOR
- 8) FOR CS-WSP METHOD, A MINIMUM 24" BRACED WALL PANEL CORNER FOR CS-WSP ME IHOU, 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 MIN. 48' BRACED WALL PANEL SHALL BE PROVIDED AT THE CORNER OR A HOLD-DOWN DEVICE WITH A MINIMUM UP LIFT DESIGN VALUE OF 800# SHALL BE FASTENED TO THE EDGE OF THE BRACED WALL PANEL CLOSEST TO THE CORNER AND TO THE FOUNDATION OR
- (5) MINIMUM 800# HOLD-DOWN DEVICE

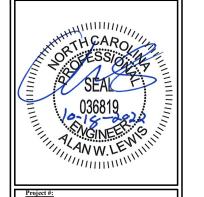
Engineers seal does not include cons means, methods, techniques, sequen procedures or safety precaution Any deviations or discrepancies on plans are to be brought to the immediate attention of Tyndall Engineering & Design, P.A. Fallure to do so will void Tyndall Engineering

S Design, P.A. liability.
 Please review these documents carefully.
 Tyronal Engineering & Design, P.A. will interpret that all dimensions, recommende etc. presented in these documents were documents were documents.









Project #: DRB2201-0306	
<u>Date:</u> 10/18/22	
Engineered By: AM	
DWG. Checked By: AWL	
Scale: SEE PLAN	

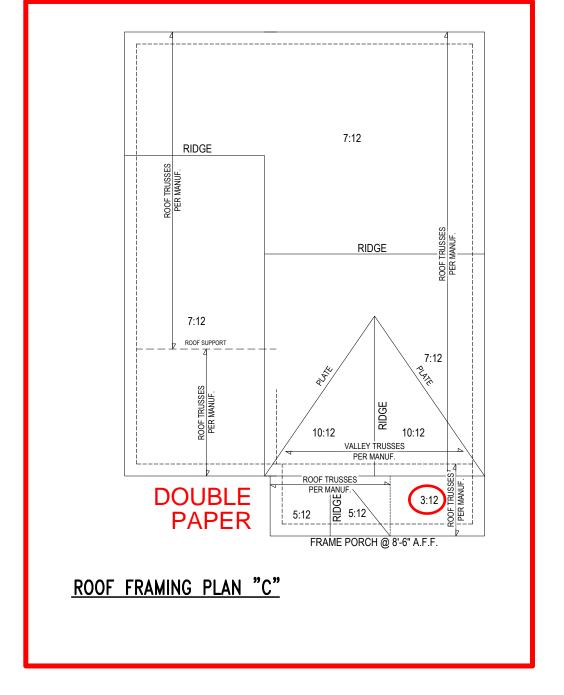
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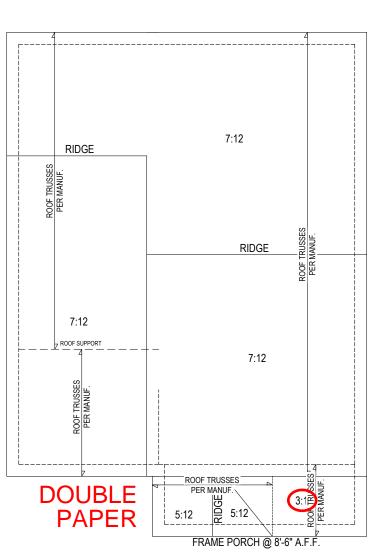
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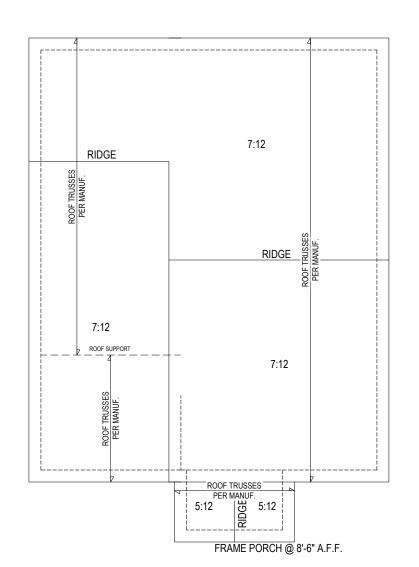
S3 3 of 7

SECOND FLOOR PLAN

1/8" = 1'-0" (11"x17") 1/4" = 1'-0" (24"x36")







ROOF FRAMING PLAN "A"

SCALE 1/8" = 1'-0" (11"x17") 1/4" = 1'-0" (24"x36") pers seal does not include construction is, methods, techniques, sequences, dures or safety precaution. Viations or discrepancies on ret to be brought to the immediate on of Tyndail Engineering & Design, P.A. to do so will yold Tyndail Engineering gn, P.A. liability. review these documents carefully. I Engineering & Design, P.A. will that the discrepance of the that all dimensions, recommendations sented in these documents were discrepable once construction.

TYNDAL I



ONE27 HOMES

ONE27 HOMES

Plan:
SEQUOIA - 1 CAR
GARAGE LEFT



Project #: DRB2201-0306	
Date: 10/18/22	
Engineered By: AM	
DWG. Checked By: AWL	
SEE PLAN	
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Sheet Number

S4

4 of 7

ROOF FRAMING PLAN "B"

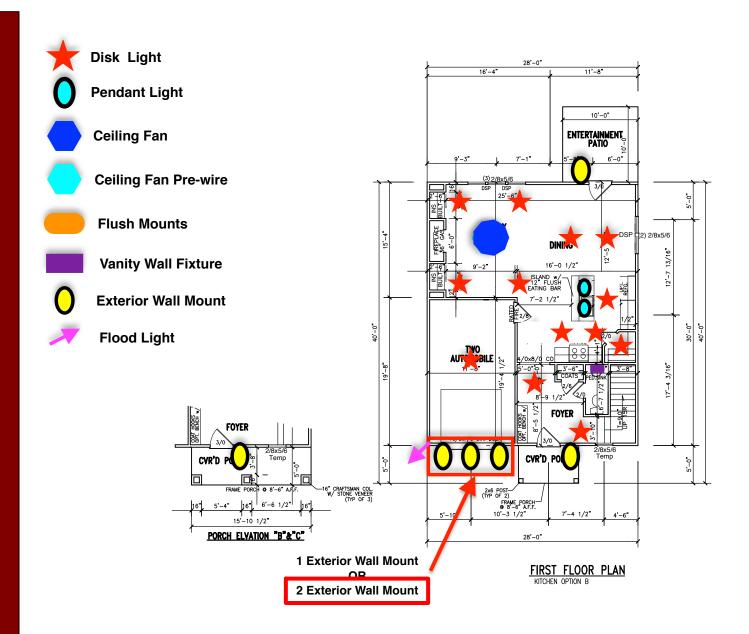


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1ST FLOOR

4B





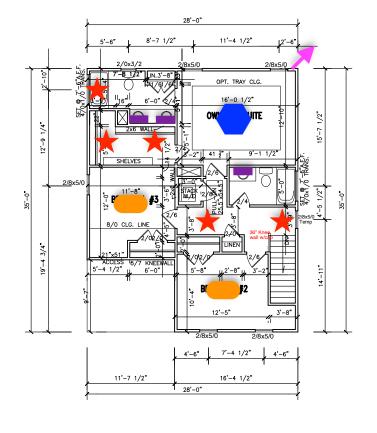




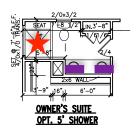
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2ND FLOOR







SECOND FLOOR PLAN

2ND FLOOR PLAN NOTES:

1) 8-0° CLG, HOT, (6°-1 /2° PLT, HOT.)
2) MLESS OHERWES WOTE.
2) MLESS OHERWES WOTE.
3) ML DETEROR WHILE FORED AT 4 MOMENT
WOTHE WALES OHERWES NOTE.
3) ML HITEROR WHILE FORED AT 3 /2°
WOTHS UNLESS OHERWES NOTE.
4) SET WHOMEN A 6°-8° AF.F.
10 MLESS OHERWES WOTE.
2) UNLESS OHERWES WOTE.
10 MLESS OHERWES WOTE.

STRUCTURAL NOTES

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	
			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 MF	H (EXPOSURE B)		
SEISMIC	SEISMIC ZONES A, B & C				

- MINIMUM ALLOWABLE SOIL BEARING PRESSURE = 2000 PSF
- CONCRETE SHALL HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 3000 PSI AND A MAXIMUM SLUMP OF FIVE INCHES
- 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.
- ALL FRAMING LUMBER SHALL BE SYP #2 (Fb = 800 PSL BASED ON 2x10) UNO. ALL FRAMINO LUMBER SPICES IN #2 (FO -000 PS), ASSECUPI X2.10 TUN.
 ALL FRAMINO LUMBER EXPOSED TO THE ELEMENTS SHALL BE TREATED MATERIAL.
 ALL I.V. LUMBER TO BE 1.75" WIDE NOMINAL EACH SINGLE MEMBER AND FO = 2800 PSI, E = 1.9M PSI (U.N.O.)
 ALL I.S. LUMBER TO BE 3.5" WIDE NOMINAL EACH SINGLE MEMBER AND FO = 2325 PSI, E = 1.6M PSI (U.N.O.)
 ALL PSI LUMBER TO BE 3.5" WIDE NOMINAL EACH SINGLE MEMBER AND FO = 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.
- ALL STRUCTURAL STEEL W-SHAPES (I-BEAMS) SHALL BE ASTM A992 GRADE 50. ALL STEEL ANGLES, PLATES, AND C-CHANNES SHALL BE ASTM A36.
 ALL STEEL PIPE SHALL BE ASTM A53 GRADE B.
- 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.
- PROVIDE ANCHOR BOLT PLACEMENT PER SECTION 403 1 6: 1/2/0/3 ANCHOR BOLTS SPACED AT 6: 0" O.C. AND PLACED 12" FROM PROVIDE ANCHOR BOLI PLACEMENT PER SECTION 403.16: 1/2/0 ANCHOR BOLIS SPACED AT 6-0". O.S. AND PLACED 12" FROM THE END OF EACH PLATE SECTION. ANCHOR BOLIS SHALL BE SACED AT 3". O.C. FOR BASEMENTS. ANCHOR BOLI SHALL EXTEND 7" INTO CONCRETE OR MASONRY. THE BOLIS SHALL BE LOCATED IN THE MIDDLE THIRD OF THE WIDTH OF THE PLATE. THERE SHALL BE A MINIMUM TWO ANCHOR BOLIS 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 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
 38.0 LBS/SQFT FOR ROOF PITCHES 16/12 TO 6/12
 18.0 LBS/SQFT FOR ROOF PITCHES 16/12 TO 10/12
 18.0 LBS/SQFT FOR ROOF PITCHES 6/12 TO 10/12 **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
- 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.)
- PROVIDE A MINIMUM OF 500# UPLIFT & LATERAL CONNECTION AT TOP AND BOTTOM OF PORCH COLUMNS. (U.N.O.)
- MAXIMUM MASONRY PEIR HEIGHT SHALL NOT EXCEED FOUR TIMES ITS LEAST HORIZONTAL DIMENSION.
- 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	SKYLIGHT ^b U-FACTOR	GLAZED FENESTRATION SHGC ^{b,k}	CEILING ^m R-VALUE	WOOD FRAMED WALL R-VALUE	MASS WALL R-VALUE ¹	FLOOR R-VALUE	BASEMENT ^{C,Q} WALL R-VALUE	SLAB ^d R-VALUE AND DEPTH	CRAWL SPACE [©] WALL R-VALUE
3	0.35	0.55	0.30	38 or 30 cont	15 or 13 + 2.5 h	5/13 or 5/10 cont	19	<u>5/13</u> f	0	5/13
4	0.35	0.55	0.30	38 or 30 cont j	15 or 13 + <u>2.5</u> h	5/13 or 5/10 cont	19	10/15	10	10/15
5	0.35	0.55	NR	38 or 30 cont	n 19, or 13 + 5 or 15 + 3	13/17 <u>or</u> 13/12.5 cont	30 ^g	<u>10/15</u>	10	10/19

* TABLE N1102.1 CLIMATE ZONES 3-5

- R-VALUES ARE MINIMUMS, U-FACTORS AND SHIGC 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 SEPCEIFED BY THE TABLE.
- FEINESTRATION U-FACTOR COLUMN EXCLUDED SKYLIGHTS. THE SOLAR HEAT GAIN COEFFICIENT (SHGC) COLUMN APPLIES TO ALL GLAZED FEINESTRATION.
- SIGN COLUMN APPLIES D'ALL GAZED PENESTRATON.

 CHOST MEANS NO CONTINUOUS INSLATED SHARTHING ON THE INTERIOR OR EXTERIOR OF THE HOME
 OR RIS CANTY MIGULATION THE INTERIOR OF THE BASSMORT WHALL OR CORAMI. SPACE WILL

 FOR MONOCHINE SLASS, RISSLATION SHALL BE APPLIED FROM THE INSPECTION GOD POWNIMARD TO THE BOTTOM
 OF THE TOOTHO OR A MAXIMUM OF 2° BECOM GROVE IMPROVEMENT SLISS, TOWN FOATHING SAMES, RISSLATION
 SHALL EXTEND TO THE BOTTOM OF THE TOURNATION WILL OR 2° WIND-EVER'S LISS. RISS SHALL BE
 ADDED TO THE RECORDING SHAE DEER FAMILES FOR HEATED.

- e. <u>DELETED</u> 1. 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.
- h. THE FIRST VALUE IS CAVITY INSULATION, THE SECOND VALUE IS CONTINUOUS INSULATION, SO "13+5" MEANS R-13 CAVITY INSULATION PLUS R-5 INSULATION. SEATHER 11-5 MAKES RIS ONTY MISLATON PLUS A NOLLATIO SHARMING STRUCTURAL SHARMING ONSES SIS OR LESS OF THE EXTENDI NOLLATION SHARMING WHITE SHARMING AND ADMINISTRATION OF THE CONTROL OF
- FOR MASS WALLS, THE SECOND R-VALUE APPLIES WHEN MORE THAN HALF THE INSULATION IS ON THE INTERIOR MASS WALL
- j. IN ADDITION TO THE EXEMPTION IN SECTION N1102.3.3, A MAXIMUM OF TWO GLAZED FENESTRATION PRODUCT ASSEMBLIES HAVING A U-FACTOR NO GREATER THAN 0.55 SHALL BE
- PERMITTED TO BE SUBSTITUTED FOR MINIMUM CODE COMPLIANT FENESTRATION PRODUCT ASSEMBLES WITHOUT PENALTY,

 M. IN ADDITION TO THE EXEMPTION IN SECTION N'102.3.3, A MAXIMUM OF TWO GLAZED FENESTRATION PRODUCT ASSEMBLES HAVING A SHGC NO GREATER THAN 0.70 SHALL BE
- I, R.30 SHALL BE DEEMED TO SATISFY THE CELLING INSULATION RECUIREMENT WHEREVER THE FILL HEIGHT OF INCOMPRESSED R.30 INSULATION EXTENDS OVER THE WALL TOP PLATE AT THE EMES, OTHERMISE R.30 INSULATION IS REQUIRED WHERE ADEQUATE CLEARNING EXISTS OR INSULATION MIST EXTEND TO EITHER THE INSULATION BAFFLE OR WITHIN 1 INCOMPRESSED OF THE ATTICE ROOF EXCE.
- O: HE ATTICHOUS ELX.

 THE VEHIC RECORDED CORPT FOR ROOF EDGE WHERE THE SPACE IS LIMITED BY THE PITCH OF THE ROOF, THERE THE INSULATION MUST FULL THE SPACE UP TO THE ARR BAFFLE.

 8. 81-91 FERROLASS BATTS COMPRESSED AND INSTILLED AN ADMINUL 2-45 FRAMING CONTRY S DEEMED TO COMPLY. PREPRILASS BATTS BATTED R-19 OR HIGHER COMPRESSED.

 AND DISTALLED IN A 224 WILLE SINT DEEMED TO COMPLY.
- AND INSTALLED IN A 2X4 WALL IS NOT DEEMED TO COMPLY.

 © 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
DSP	=	DOUBLE STUD POCKET	SPEC	=	SPECIFIED
EA	=	EACH	THK	=	THICK
EE	=	EACH END	TJ	=	TRIPLE JOIST
FJ	=	FLOOR JOIST	TRTD	=	TREATED
FND	=	FOUNDATION	TYP	=	TYPICAL
FTG	=	FOOTING	UNO	=	UNLESS NOTED OTHERWISE
GALV	=	GALVANIZED	W	=	WIDE FLANGE BEAM
HORIZ	=	HORIZONTAL	WWF	=	WELDED WIRE FABRIC
HT	=	HEIGHT	XJ	=	EXTRA JOIST
MANUF	=	MANUFACTURER			

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"

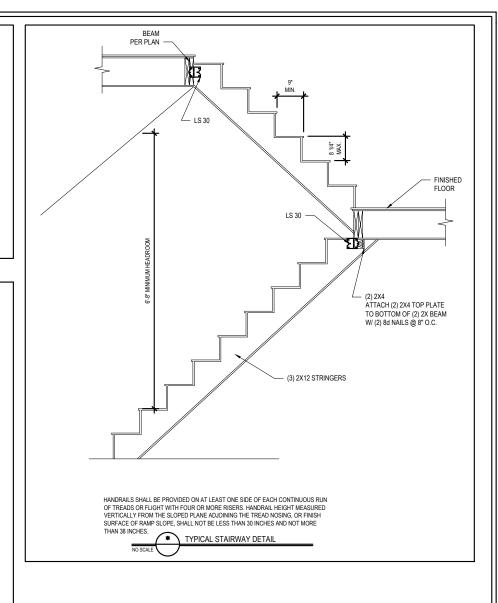
- THIS TABLE IS BASED ON NO. 2 TREATED SOUTHERN PINE POSTS MAXIMUM TRIBUTARY AREA IS BASED ON 128 TOTAL SQUARE FEET WHICH MAY BE LOCATED AT DIFFERENT LEVELS. FROM TOP OF FOOTING TO BOTTOM OF GIRDER
- DECKS WITH POST HEIGHTS OVER 20'-0" SHALL BE DESIGNED AND SEALED BY A PROFESSIONAL ENGINEER OR REGISTERED ARCHITECT.
- 2) DECKS SHALL BE BRACED TO PROVIDE LATERAL STABILITY BY ONE OF
- A. 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.
- ABOVE. LATERAL BRACING IS NOT RECOURSE.

 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° NND 60° FROM THE HORIZONTAL KNEE BRACES SHALL BE BOUTED. 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
(2) PERPENDICULAR DIRECTIONS FOR FREESTANDING DECKS OR PARALLEL
TO THE STRUCTURE AT THE EXTERIOR COLUMN LINE FOR ATTACHED DECKS.
THE 2 x 6s SHALL BE ATTACHED TO THE POSTS WITH ONE 5/8"/9 HOT

DIPPED GALVANIZED BOLT AT EACH END OF EACH BRACING MEMBER. E. FOR EMBEDMENT OF PILES IN COASTAL REGIONS, SEE CHAPTER 46.



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

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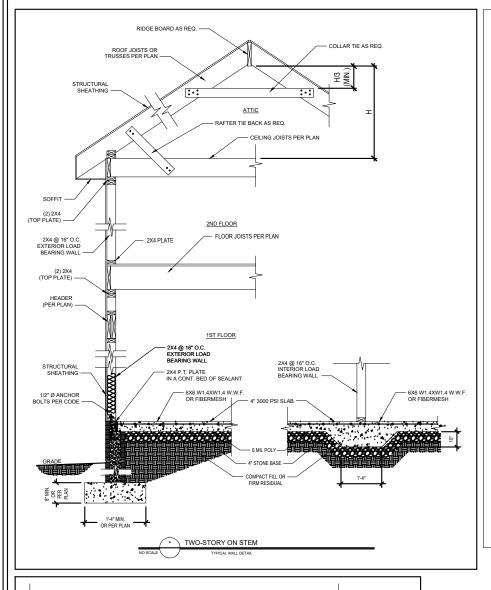
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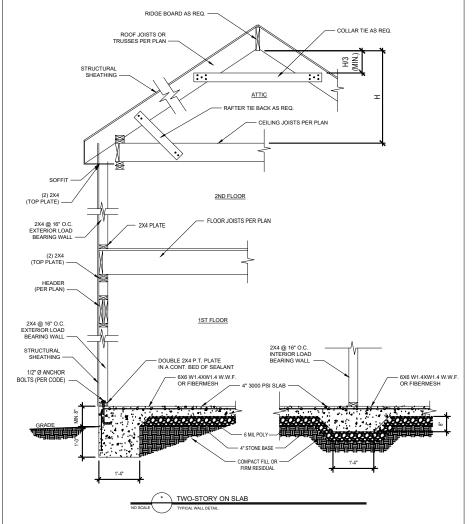
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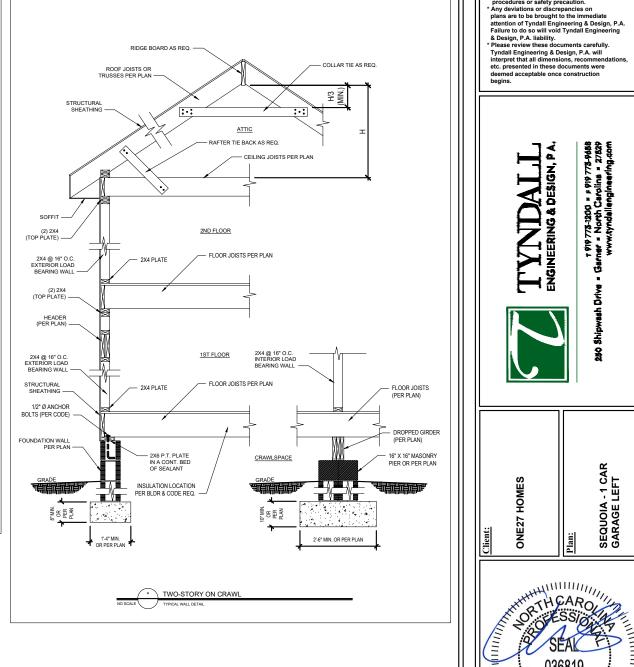
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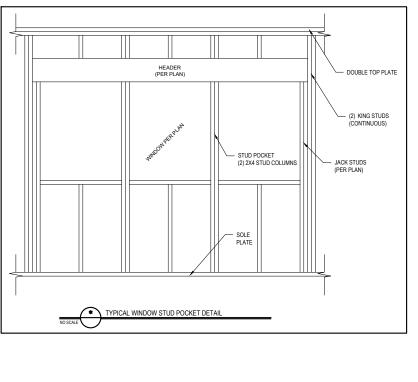
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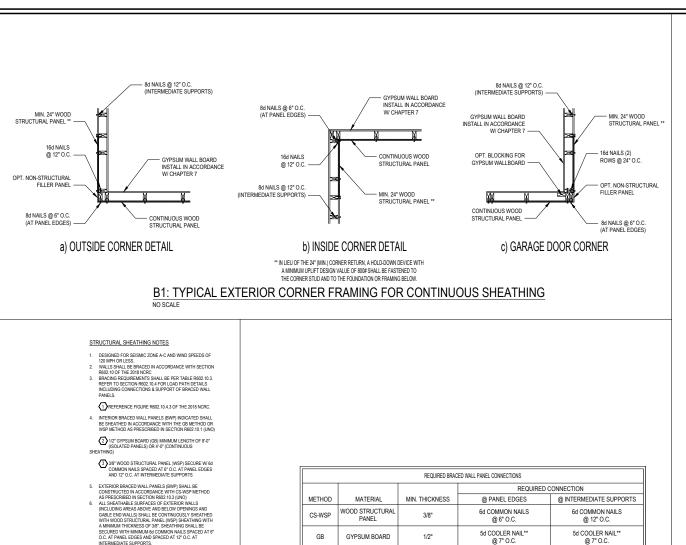
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REQUIRED BRACED WALL PANEL CONNECTIONS							
			REQUIRED CONNECTION				
METHOD	MATERIAL	MIN. THICKNESS	@ PANEL EDGES	@ INTERMEDIATE SUPPORTS			
CS-WSP	WOOD STRUCTURAL PANEL	3/8"	6d COMMON NAILS @ 6" O.C.	6d COMMON NAILS @ 12" O.C.			
GB	GYPSUM BOARD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

ITERMEDIATE SUPPORTS.

INIMUM BRACED WALL PANEL LENGTHS WITH CS-WSP

METHOD SHALL BE AS FOLLOWS:
- 24" ADJACENT TO OPENINGS NOT MORE THAN 67%

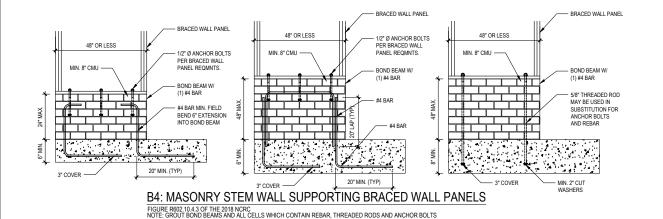
24" ADJACENT TO OPENINGS NOT MORE THAN 67% OF WALL HEIGHT
 30" ADJACENT TO OPENINGS GREATER THAN 67% AND LESS THAN 85% OF WALL HEIGHT

48" FOR OPENINGS GREATER THAN 85% OF WALL

8. FOR CS-WSP METHOD, A MINIMUM 24' BRACED WALL PANEL CORNER RETURN SWALL BE PROVIDED AT BOTH PANS OF A SRACED WALL INCE IN ACCOMMANCE WITH EITHER A MINIMUM 44' BRACED WALL PANEL SHALL BE PROVIDED A THE CORNER OF A HOLD-DOWN DEVICE WITH A MINIMUM 44' BRACED WALL PANEL SHALL BE A PROVIDED A THE CORNER OF A HOLD-DOWN DEVICE WITH A MINIMUM HEIT DESIGN VALUE OF 5006 SHALL BE ASSENDED 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

4 SHEATH INTERIOR AND EXTERIOR



EXTENT OF HEADER W/ DOUBLE PORTAL FRAME (TWO BRACED WALL PANELS) EXTENT OF HEADER W/ SINGLE PORTAL FRAME (ONE BRACED WALL PANEL) . : : : : ::::: (STEEL HEADER PROHIBITED ONLY WITH PF 2'-0" TO 18-0" FASTEN TOP PLATE TO HEADER WITH TENSION STRAP -(ON OPPOSITE SIDE OF SHEATHING) (2) ROWS OF 16d SINKER NAILS @ 3" O.C. (TYP) HEADER TO JACK STUD - STRAP ON BOTH SIDES -- FASTEN SHEATHING TO HEADER WITH 8d COMMON OR GALVANIZED BOX NAILS IN 3" GRID PATTERN AS OF OPENING (OPPOSITE SIDE OF SHEATHING) STRAP CAPACITY SHALL EQUAL 1.000 LBS. OR SHOWN AND 3" O.C. IN ALL FRAMING (STUDS, BLOCKING, AND SILLS) (TYP) 4.000 LBS, WHEN PONY WALL IS PRESENT WALL HEIGHT UP TO 2'-0". MIN. 2X8 STUDS WITH PONY WALL HEIGHT GREATER THAN 2'-0" - - - - - - -7/16" MIN. THICKNESS WOOD STRUCTURAL PANEL SHEATHING BRACED WALL LINE - CONTINUOUSLY PANEL SPLICE EDGES (IF NEEDED) SHALL OCCUR OVER, AND BE ATTACHED TO, COMMON BLOCKING WITHIN 24" OF SHEATHED WITH WOOD STRUCTURAL PANELS MIN PANEL LENGTH WALL HEIGHT, ft. 8 9 10 11 12
PANEL LENGTH, in. 16 18 20 22 24 THE WALL MID-HEIGHT. ONE ROW OF 3"
O.C. NAILING IS REQ'D. IN EACH PANEL EDGE MIN DOUBLE POST -(KING AND JACK STUD) NUMBER OF JACK STUDS PER TABLES MIN. DOUBLE STUD FRAME CONSTRUCTION MIN. (2) 1/2" Ø ANCHOR BOLTS ANCHOR BOLTS PER -INSTALLED PER SECTION R403.1.6 W/ 2" X 2" X 3/16" PLATE WASHER SECTION R403.1.6 (TYP)

OVER CONCRETE OR MASONRY BLOCK FOUNDATION



ATTACH SHEATHING TO BAND WOOD STRUCTURAL PANEL NAIL SOLE PLATE SHEATHING TO THE TOP TO JOISTS PER NAILS 3" O.C. TOP AND BOTTOM BAND OR RIM JOIST TABLE R602.3(1) 41____1 OVER APPROVED BAND OR RIM JOIST

OVER RAISED WOOD FLOOR - OVERLAP OPTION

B2: METHOD CS-PF: CONTINUOUSLY SHEATHED PORTAL FRAME FIGURE R602.10.1

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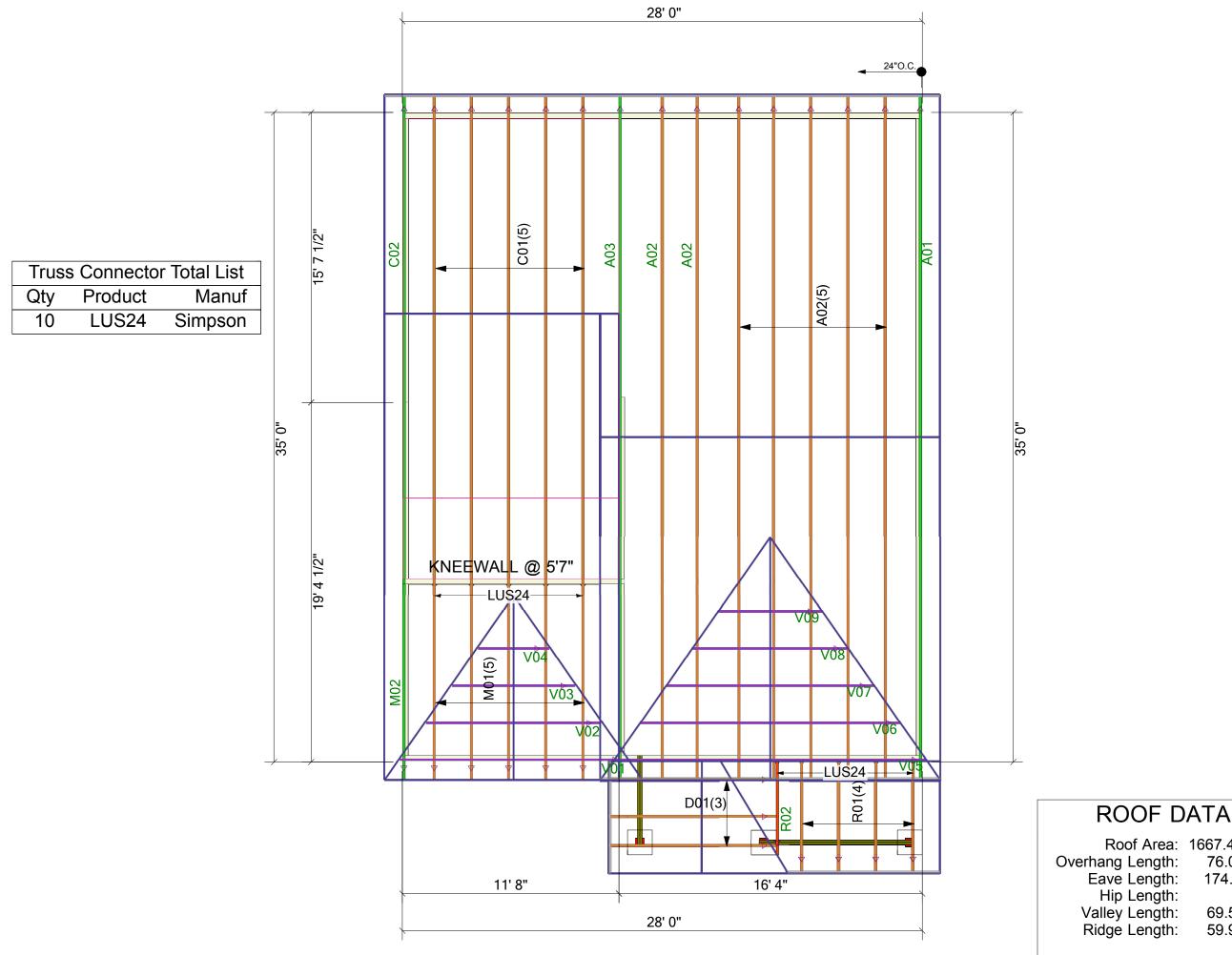




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Sheet Number

D3



Roof Area: 1667.41 SF 76.07 LF 174.77 LF 0 LF 69.51 LF

59.99 LF

RCE FOR FABRICATION OF TRUSSES AND VOIDS ALL PREVIOUS ARCHITECTURAL OR OTHER TRUSS WAL OF THIS LAYOUT MUST BE RECEIVED BEFORE ANY TRUSSES WILL BE BUILT. VERIFY ALL CONDITHAT WILL RESULT IN EXTRA CHARGES TO YOU.

SHOP DRAWING APPROVAL

A TRUSS PLACEMENT DIAGRAM ONLY

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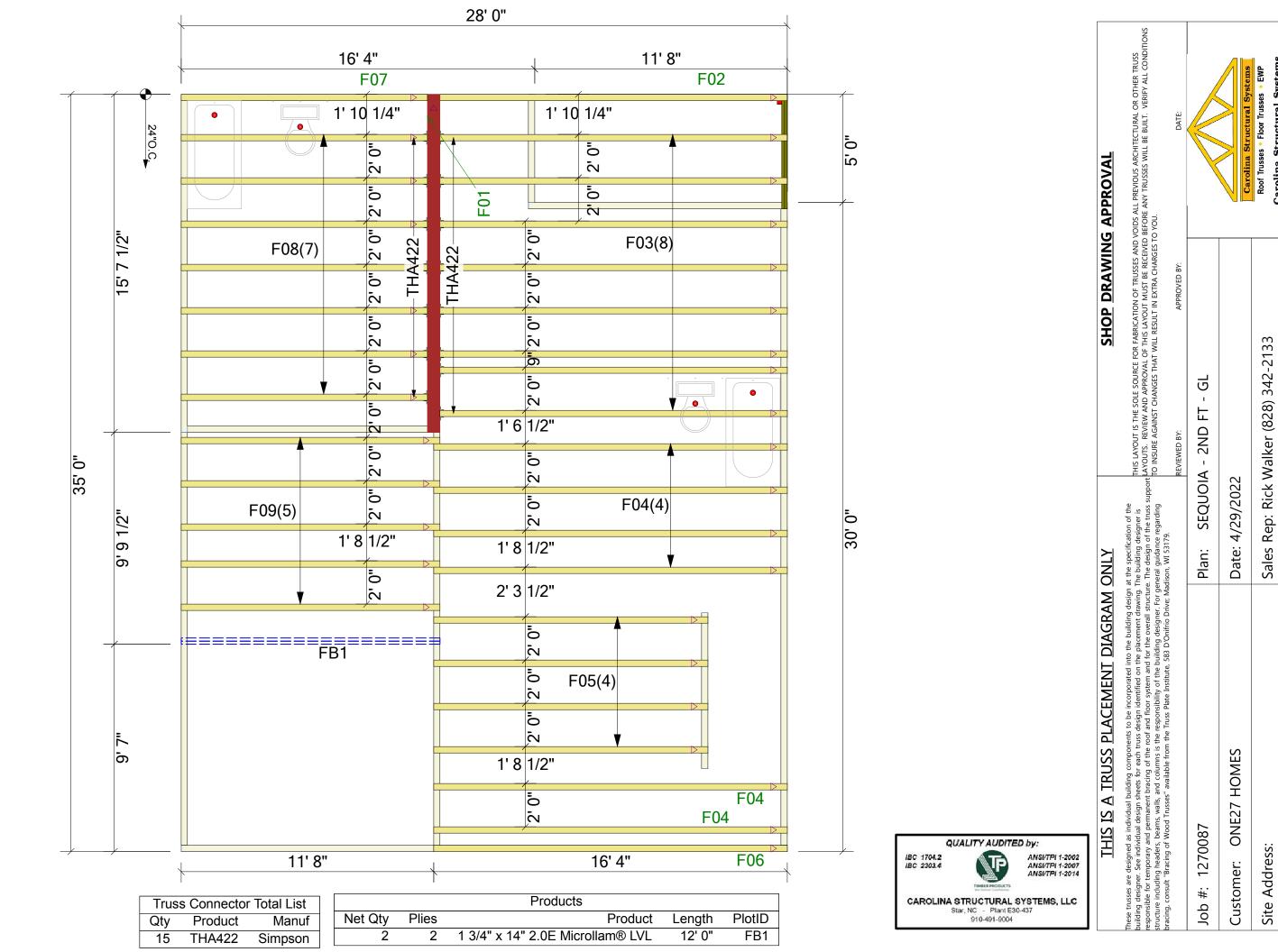
342-2133 Sales Rep: RICK WALKER (828) C - RIGHT SEQUOIA Date: 5/21/2020

Designer:

City, ST, ZIP:

Plan:

ONE27 HOMES Job #: 1270029 Site Address: Customer:



Designer: RW

City, ST, ZIP: