



JOB NAME Tommy Core

TRANSACTION # 1900446

STATUS Quote

BUILDER

MODEL 24 x24 Carport

QUOTE DATE 6/25/2019

SOLD TO 2383-Dunn
200 Emmett Road
Dunn North Carolina 28334

SHIP TO



ERwin NC

SALES REP Rodney Evans

CONTACT

84 Lumber Company • 200 Emmett Rd • Dunn • NC • 28334 • Phone: (910) 892-8400 • Fax: (910) 892-8343

Component Item - Roof Trusses

DIAGRAM	QTY		LABEL	(Shipping)	Base Span		OVERHANG		CANTILEVER		STUB	
	PLY	PITCH		HEIGHT	SPAN	LUMBER	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT
	11	5 /12	A24	(5-10-07) 5-04-01	24-00-00	2 x 4	1-04-00	1-04-00	-	-	-	-
	2	5 /12	AE24	(5-10-07) 5-04-01	24-00-00	2 x 4	1-04-00	1-04-00	-	-	-	-
	13											312.00

Ancillary Items

QTY	Label	Description	Length
4	3100 SP	1-3/4" x 9-1/4" VERSA-LAM® 2.0 3100 SP	24-00-00

Notes:

Tax Included. Delivery not Included.

Thank you for allowing 84 to bid this job.

Rodney Evans

Total	\$1,444.50
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Terms: This pricing will be honored if the job delivers on or before 30 Days from quote date. Any Layout provided with this quote will be preliminary until finalization at the time of order. All girder ply fastener hardware is provided BY OTHER. Girder ply's are to be assembled in field by contractor. All girder assembly information can be found on engineered drawings provided. All field framing on layout is to be done in the field by contractor. Contact 84engineered wood center for any LVL or beams.

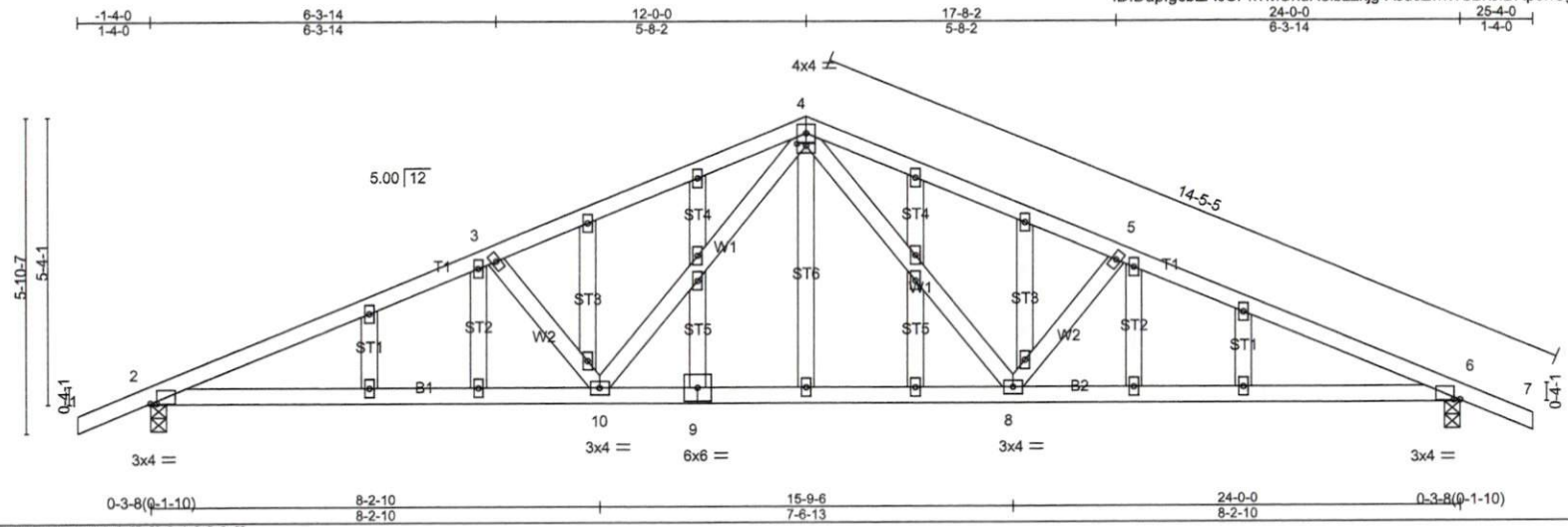
* IMPORTANT NOTE *

THIS PROPOSAL IS BASED ON LUMBER DESIGN VALUES IN EFFECT AT THE TIME OF THE QUOTE. IN THE EVENT ANY LUMBER DESIGN VALUES CHANGE BEFORE THE COMPLETION OF THE PROJECT, 84 LUMBER COMPANY RESERVES THE RIGHT TO MODIFY THE PRICE ACCORDINGLY.

Job 1900446-1900446A	Truss AE24	Truss Type GABLE	Qty 2	Ply 1	Tommy Core
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84 Components, Dunn, NC 28334

Job Reference (optional)
8.220 s Dec 15 2018 MiTek Industries, Inc. Tue Jun 25 13:38:08 2019 Page 1
ID: DupfgcbZA6SPk?MUxdKelbz2kjg-XsusZtvx/vBxJlBRp0nCgb8sbQ1iMN8U?s7Hqzx2khz



Scale = 1:39.5

Plate Offsets (X,Y) = [2:0-1-6,0-0-0], [4:0-2-0,0-0-8], [6:0-1-6,0-0-0]					
LOADING (psf)	SPACING- 2-0-0	CSI	DEFL. in (loc) l/def L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.48	Vert(LL) -0.11 8-34 >999 240	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.71	Vert(CT) -0.25 8-34 >999 180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.25	Horz(CT) 0.06 6 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-MS			Weight: 144 lb FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3
OTHERS 2x4 SP No.3

BRACING-
TOP CHORD
BOT CHORD

Structural wood sheathing directly applied or 3-8-11 oc purlins.
Rigid ceiling directly applied or 9-10-1 oc bracing.

MITek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 2=1040/0-3-8 (min. 0-1-10), 6=1040/0-3-8 (min. 0-1-10)
Max Horz 2=94(LC 11)
Max Uplift 2=-153(LC 12), 6=-153(LC 12)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1910/479, 3-4=-1699/449, 4-5=-1699/449, 5-6=-1910/479
BOT CHORD 2-10=-343/1729, 9-10=-149/1144, 8-9=-149/1144, 6-8=-351/1729
WEBS 3-10=-391/223, 4-10=-112/604, 4-8=-112/604, 5-8=-391/223

JOINT STRESS INDEX
2 = 0.78, 3 = 0.27, 4 = 0.68, 4 = 0.61, 5 = 0.27, 6 = 0.78, 8 = 0.45, 9 = 0.29, 10 = 0.45, 11 = 0.27, 12 = 0.27, 12 = 0.27, 13 = 0.27, 14 = 0.27, 15 = 0.27, 16 = 0.27, 17 = 0.27, 18 = 0.27, 19 = 0.27, 20 = 0.27, 21 = 0.27, 22 = 0.27, 22 = 0.27, 23 = 0.27, 24 = 0.27, 25 = 0.27, 26 = 0.27, 27 = 0.27 and 28 = 0.27

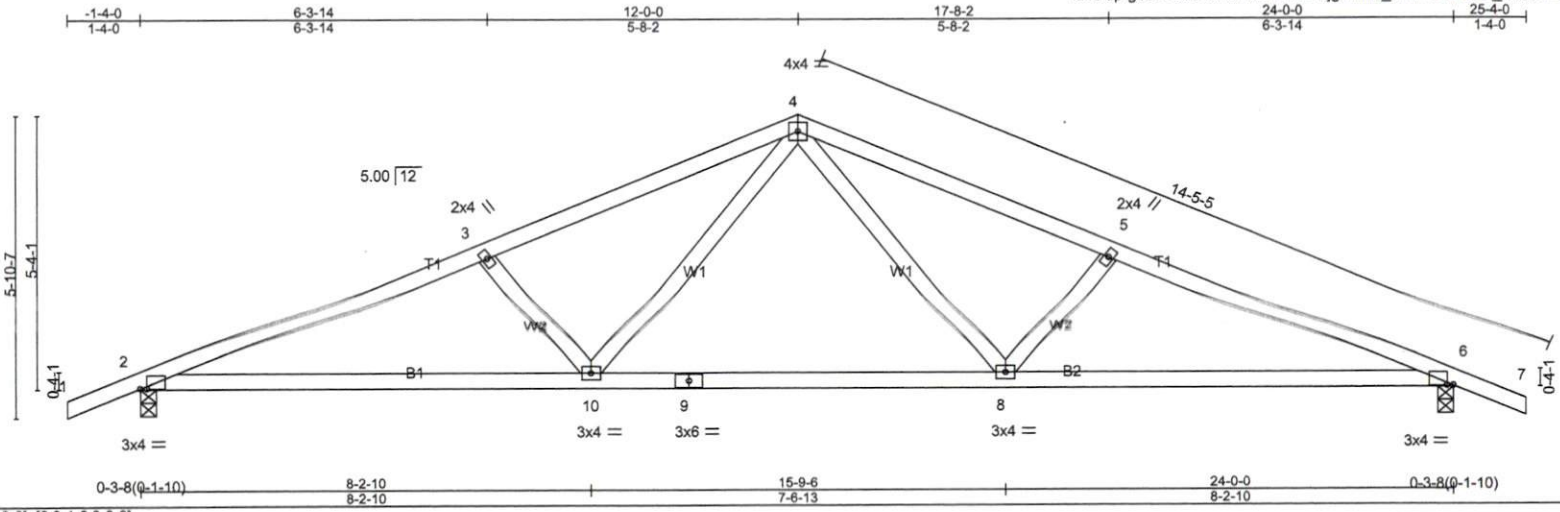
- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BC DL=6.0psf; h=30ft; B=45ft; L=45ft; eave=6ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable studs spaced at 2-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 6. This connection is for uplift only and does not consider lateral forces.
 - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job 1900446-1900446A	Truss A24	Truss Type FINK	Qty 11	Ply 1	Tommy Core
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84 Components, Dunn, NC 28334

Job Reference (optional)
8.220 s Dec 15 2018 MiTek Industries, Inc. Tue Jun 25 13:37:26 2019 Page 1
ID: DupfgcbZA6SPk?MUxdKelbz2kjg-mmM_kWPbOhuuGI_NMC1LzkOhUhtWOJLKy3MNz2kid



Scale = 1:39.5

Plate Offsets (X,Y) [2:0-1-6,0-0-0], [6:0-1-6,0-0-0]		CSL		DEFL		PLATES		GRIP	
LOADING (psf)	SPACING-	2-0-0	TC	in (loc)	l/defl	L/d	MT20	244/190	
TCLL 20.0	Plate Grip DOL	1.15	BC	Vert(LL) -0.11	8-16	>999			
TCDL 10.0	Lumber DOL	1.15	WB	Vert(CT) -0.25	8-16	>999			
BCLL 0.0 *	Rep Stress Incr	YES	Matrix-MS	Horz(CT) 0.06	6	n/a			
BCDL 10.0	Code IRC2015/TPI2014								Weight: 106 lb FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-8-11 oc purlins.
BOT CHORD Rigid ceiling directly applied or 9-10-1 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 2=1040/0-3-8 (min. 0-1-10), 6=1040/0-3-8 (min. 0-1-10)
Max Horz2=94(LC 11)
Max Uplift2=153(LC 12), 6=-153(LC 12)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
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WEBS 3-10=-391/223, 4-10=-112/604, 4-8=-112/604, 5-8=-391/223

JOINT STRESS INDEX
2 = 0.78, 3 = 0.27, 4 = 0.68, 5 = 0.27, 6 = 0.78, 8 = 0.45, 9 = 0.44 and 10 = 0.45

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=30ft; B=45ft; L=45ft; eave=6ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2) zone; C-C for members and forces & MWFRS reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
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 - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

BC CALC® Member Report

RB01 (Roof Beam)

Dry | 2 spans | No cant.

June 25, 2019 13:31:52

Build 7192

Job name:

File name:

Address:

Description:

City, State, Zip:

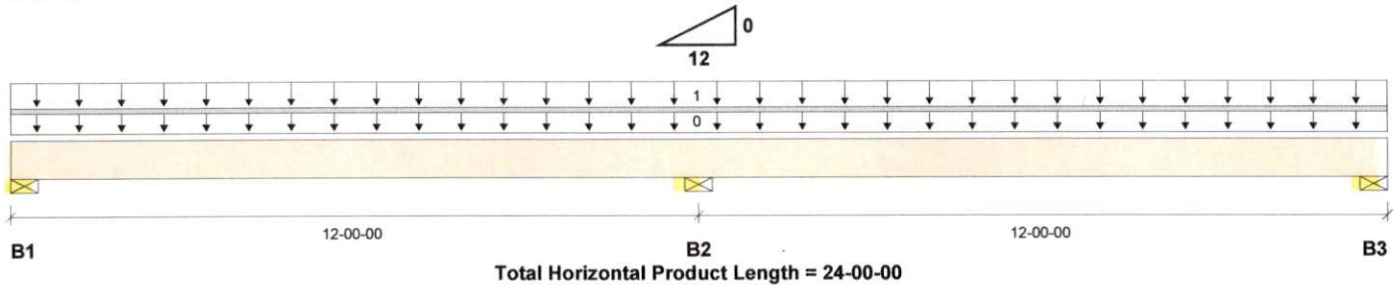
Specifier:

Customer:

Designer: Rodney Evans

Code reports: ESR-1040

Company: 84 Lumber



Reaction Summary (Down / Uplift) (lbs)

Bearing	Live	Dead	Snow	Wind	Roof Live
B1, 3-1/2"		1251 / 0	1303 / 0		
B2, 3-1/2"		3963 / 0	3826 / 0		
B3, 3-1/2"		1251 / 0	1303 / 0		

Load Summary

Tag	Description	Load Type	Ref.	Start	End	Loc.	Live	Dead	Snow	Wind	Roof Live	Tributary
							100%	90%	115%	160%	125%	
0	Self-Weight	Unf. Lin. (lb/ft)	L	00-00-00	24-00-00	Top		9				00-00-00
1	Standard Load	Unf. Area (lb/ft²)	L	00-00-00	24-00-00	Top		20	20			13-00-00

Controls Summary

	Value	% Allowable	Duration	Case	Location
Pos. Moment	5588 ft-lbs	36.6%	115%	7	04-10-02
Neg. Moment	-9168 ft-lbs	60.1%	115%	9	12-00-00
End Shear	1991 lbs	28.1%	115%	7	01-00-12
Cont. Shear	3409 lbs	48.2%	115%	9	11-01-00
Total Load Deflection	L/588 (0.24")	30.6%	n\a	7	05-03-11
Live Load Deflection	L/1042 (0.136")	23.0%	n\a	10	05-07-06
Total Neg. Defl.	L/999 (-0.005")	n\a	n\a	7	12-06-06
Max Defl.	0.24"	24.0%	n\a	7	05-03-11
Span / Depth	15.3				

Bearing Supports	Dim. (LxW)	Value	% Allow Support	% Allow Member	Material
B1	Wall/Plate 3-1/2" x 3-1/2"	2554 lbs	n\a	27.8%	Unspecified
B2	Wall/Plate 3-1/2" x 3-1/2"	7789 lbs	n\a	84.8%	Unspecified
B3	Wall/Plate 3-1/2" x 3-1/2"	2554 lbs	n\a	27.8%	Unspecified

Cautions

For roof members with slope (1/4)/12 or less final design must ensure that ponding instability will not occur.

For roof members with slope (1/2)/12 or less final design must account for Rain-on-Snow surcharge load.

BC CALC® Member Report

RB01 (Roof Beam)

June 25, 2019 13:31:52

Build 7192

Dry | 2 spans | No cant.

Job name:

File name:

Address:

Description:

City, State, Zip:

Specifier:

Customer:

Designer: Rodney Evans

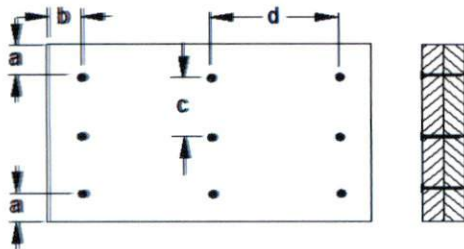
Code reports: ESR-1040

Company: 84 Lumber

Notes

Design meets Code minimum (L/180) Total load deflection criteria.
 Design meets Code minimum (L/240) Live load deflection criteria.
 Design meets arbitrary (1") Maximum Total load deflection criteria.
 Calculations assume member is fully braced.
 BC CALC® analysis is based on IBC 2009.
 Design based on Dry Service Condition.
 Member has no side loads.

Connection Diagram: Full Length of Member



a minimum = 2" c = 2-5/8"
 b minimum = 3" d = 24"

Member has no side loads.
 Connectors are: 3-1/4 in. Pneumatic Gun Nails

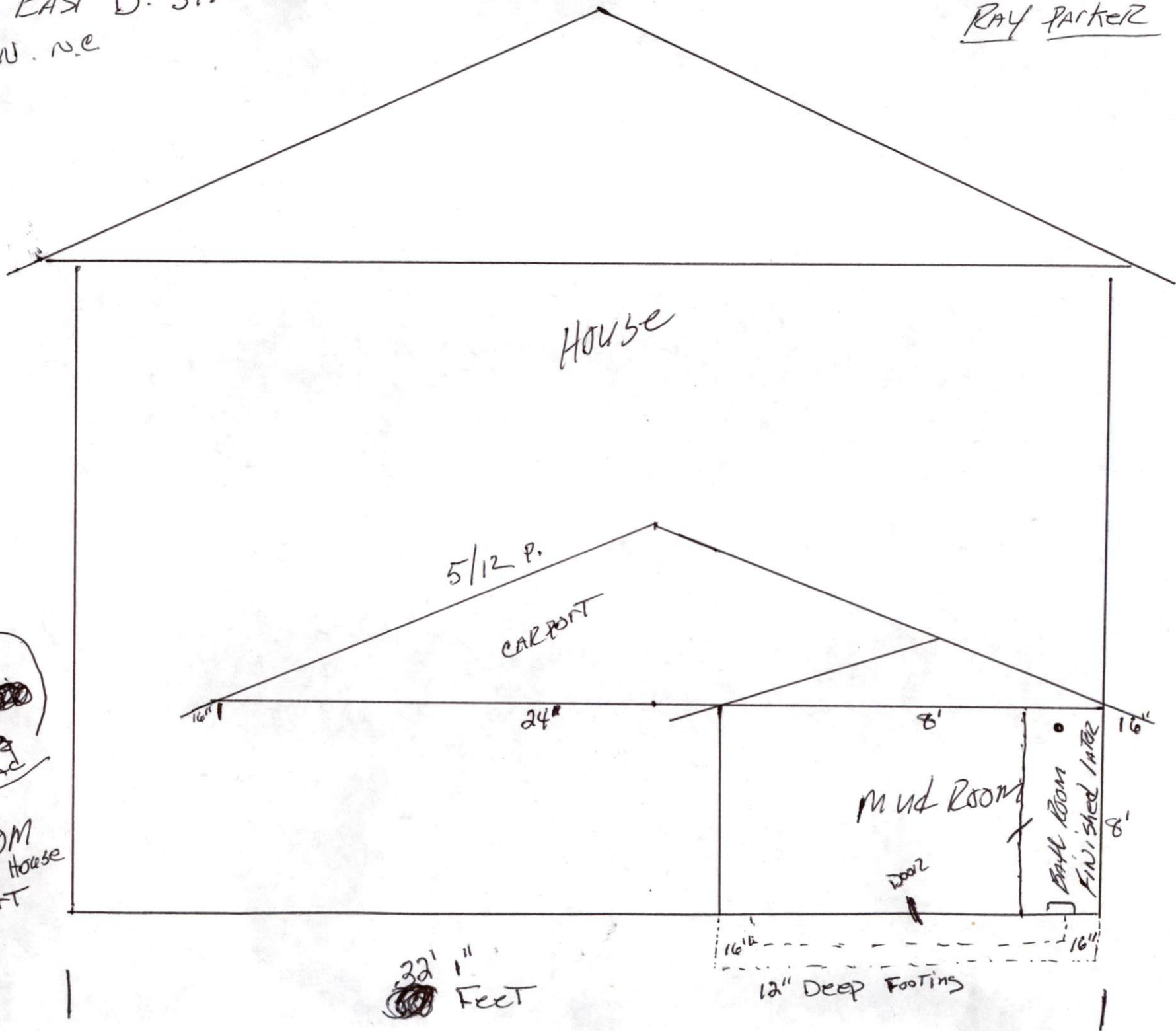
Disclosure

Use of the Boise Cascade Software is subject to the terms of the End User License Agreement (EULA). Completeness and accuracy of input must be reviewed and verified by a qualified engineer or other appropriate expert to assure its adequacy, prior to anyone relying on such output as evidence of suitability for a particular application. The output here is based on building code-accepted design properties and analysis methods. Installation of Boise Cascade engineered wood products must be in accordance with current Installation Guide and applicable building codes. To obtain Installation Guide or ask questions, please call (800)232-0788 before installation.

BC CALC®, BC FRAMER®, AJS™, ALLJOIST®, BC RIM BOARD™, BCI®, BOISE GLULAM™, BC FloorValue®, VERSA-LAM®, VERSA-RIM PLUS®,

206 EAST D. ST.
ERWIN. N.C.

RAY PARKER



(CARPORT
OVER ~~EXISTING~~
PRE-EXISTING
PAD)

Mud Room
Attached TO House
& CARPORT