

- GABLE VENTILATION TO BE 12/12 6' BASE LOWRE @ EACH END OF STRUCTURE
- SOFFIT VENTILATION TO BE 8" x 16" VENTS EACH SIDE AS APPROPRIATE FOR LENGTH OF STRUCTURE

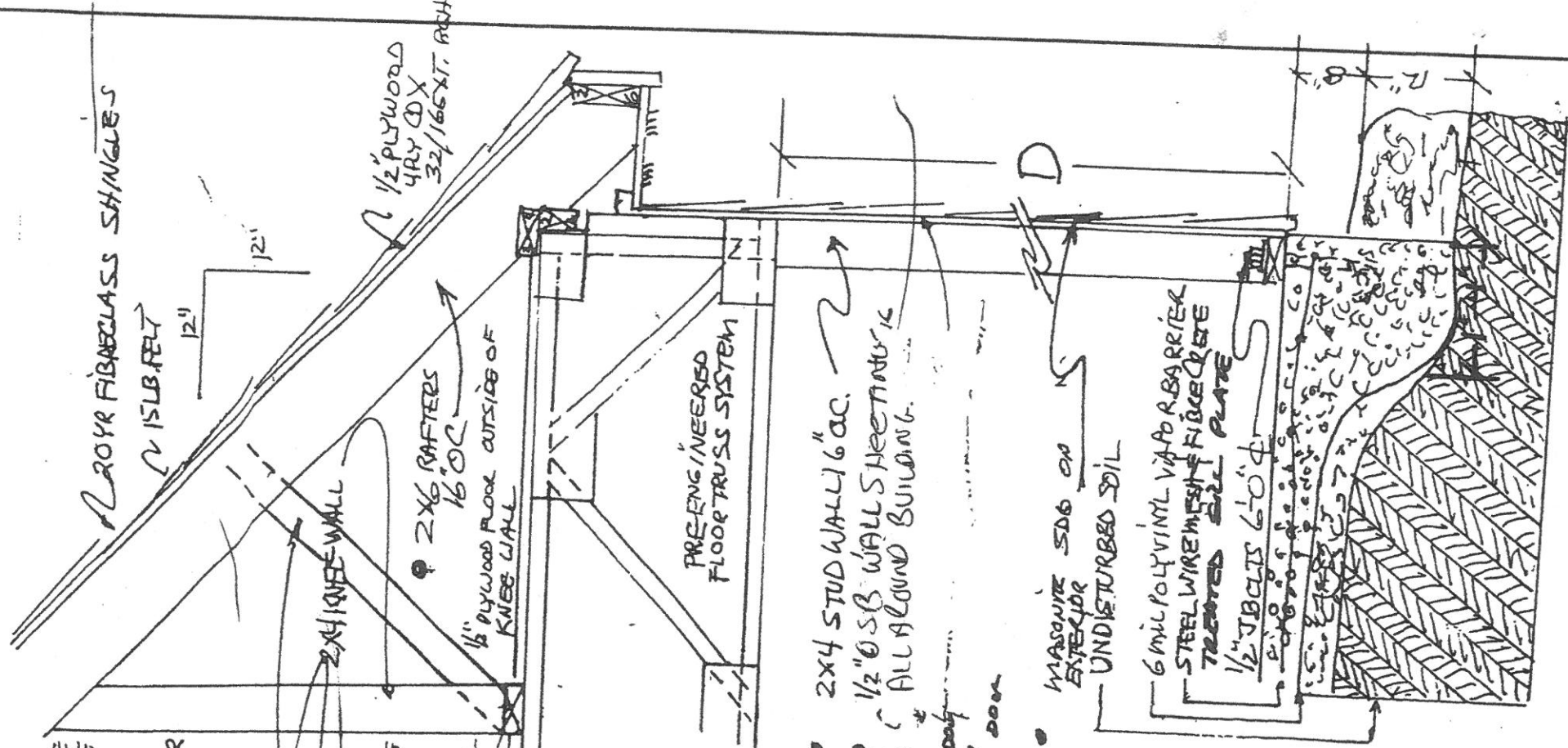
• RAFTER TIES TO EAVE OF ROOF TRUSS NAILED TO RAFTER & KNEE WALL PLATE
 3/4" x 4" PLYWOOD SUBFLOOR

- HEADERS OVER WINDOWS AND SMALL DOOR TO BE DOUBLE 2X10'S
- HEADERS OVER GARAGE DOORS TO BE DOUBLE 2X12'S OR LVL'S AS APPROPRIATE

• CONSTRUCTION CONFORMS TO N.C.S. B.D.S. CODE

• DATED ON ON AFTER 01-01-18
 SOME JACK STUDS BE WINDOWS AND PASSENGER DOOR
 ONE JACK STUD BE 7/7 GARAGE DOOR
 OTHER JACK STUDS BE 24 18 X 7 GARAGE DOOR

3. Provide positive and negative wall and roof cladding design values. wall cladding is designed for a 24.1 lb. per sq ft or greater positive or negative pressure for houses with mean roof height of 30 feet or less. Roof values, both positive and negative, shall be designed as follows:
 25.4 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 and
 21 lbs. per sq. ft. for roof pitches of 7/12 to 12/12.
 Values stated are for roofs with a mean height of 30 feet or less. Roofs with mean roof heights greater than 30 feet must show specific information for cladding.



SCALE: 1/4" = 1'

DATE:

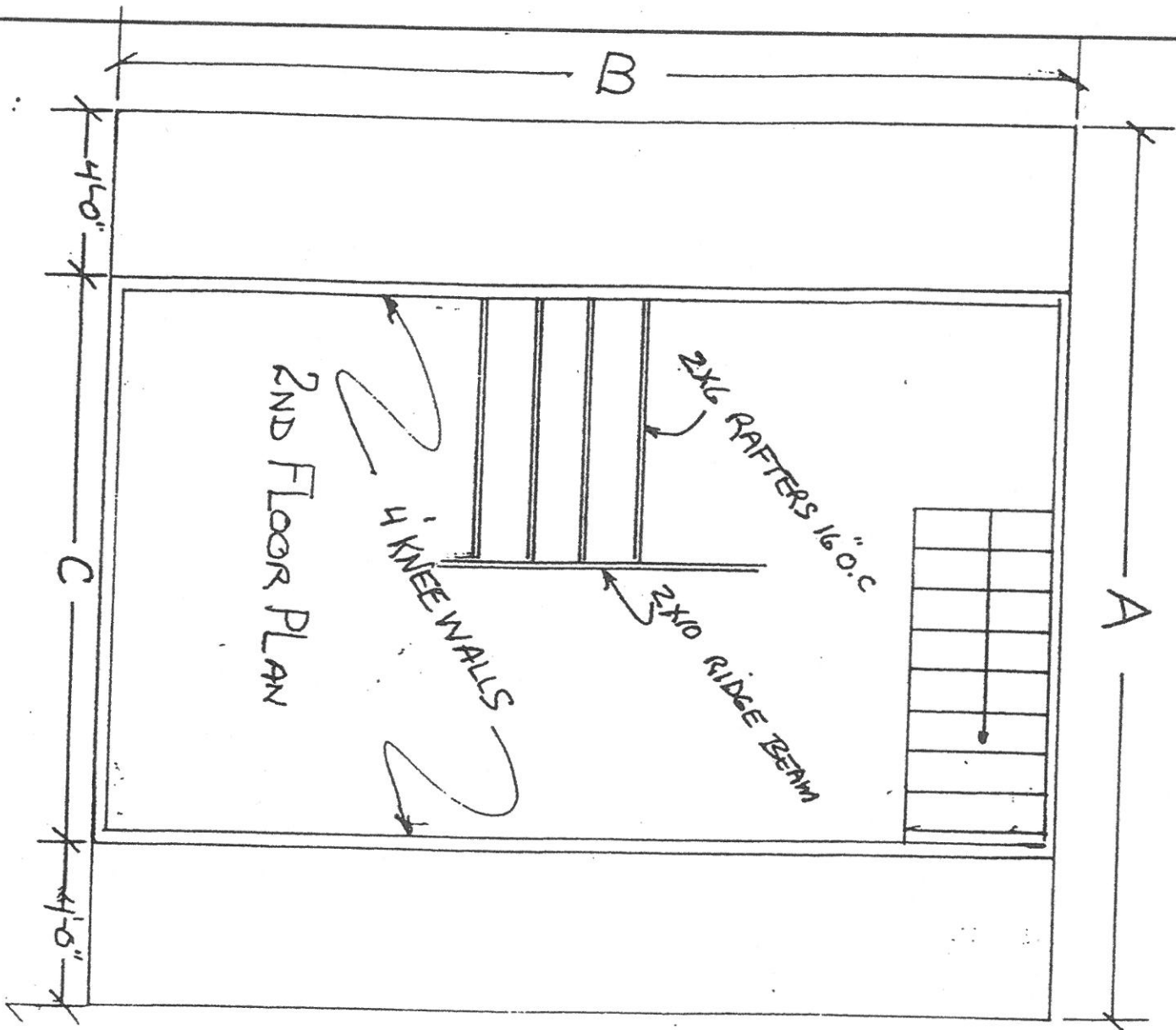
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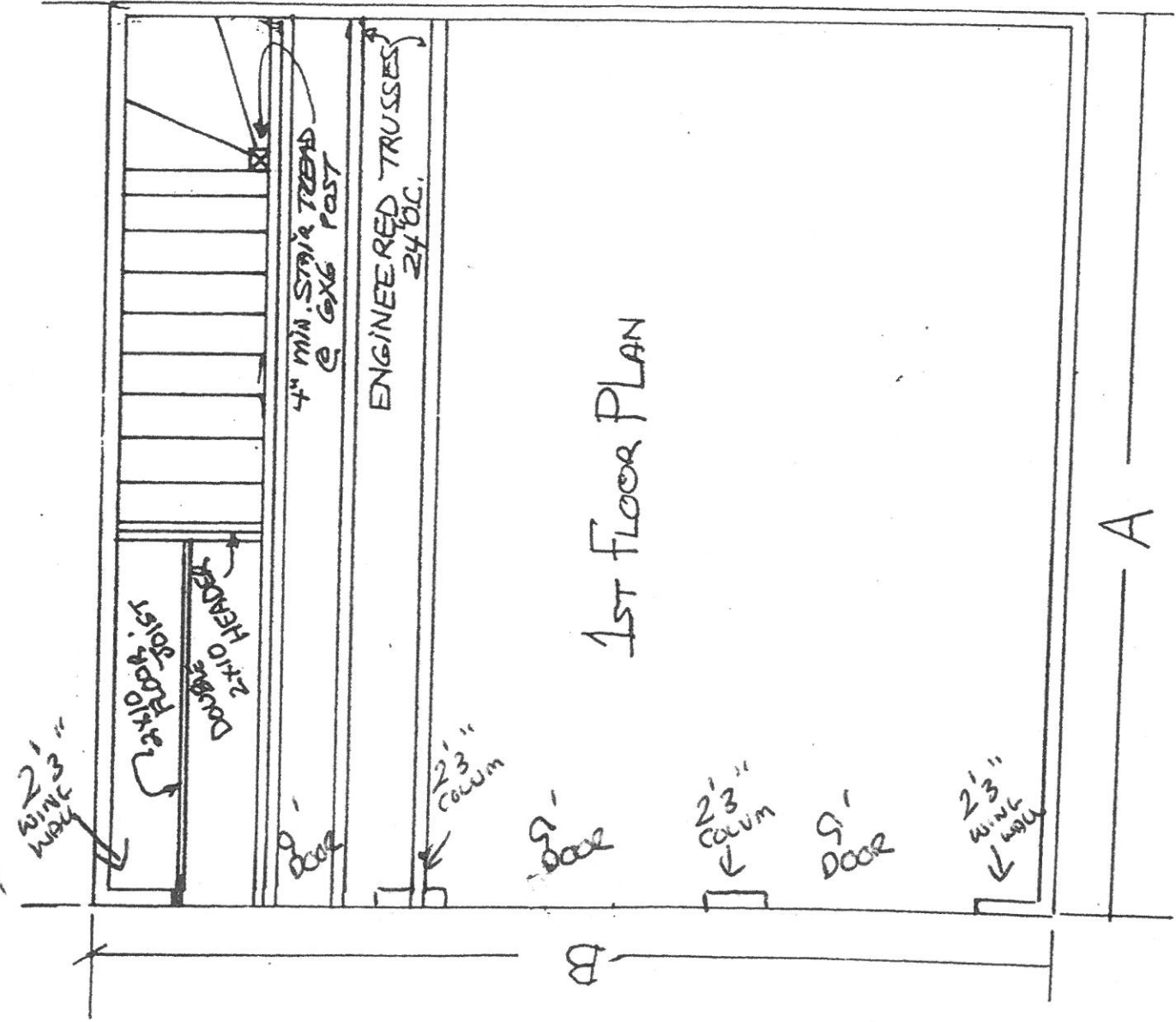
DRAWN BY DOM

REVISED

1 1/2 STORY GARAGE WITH DOORS ON SIDE

DRAWING NUMBER





1st Floor PLAN

A

B

2' 1" WING WALL

DOOR
2' x 10' HEADR
2' x 10' HEADR

4" MIN. STAIR TREAD
@ 6x6 POST

ENGINEERED TRUSSES
24' OC.

2' 3" COLUM

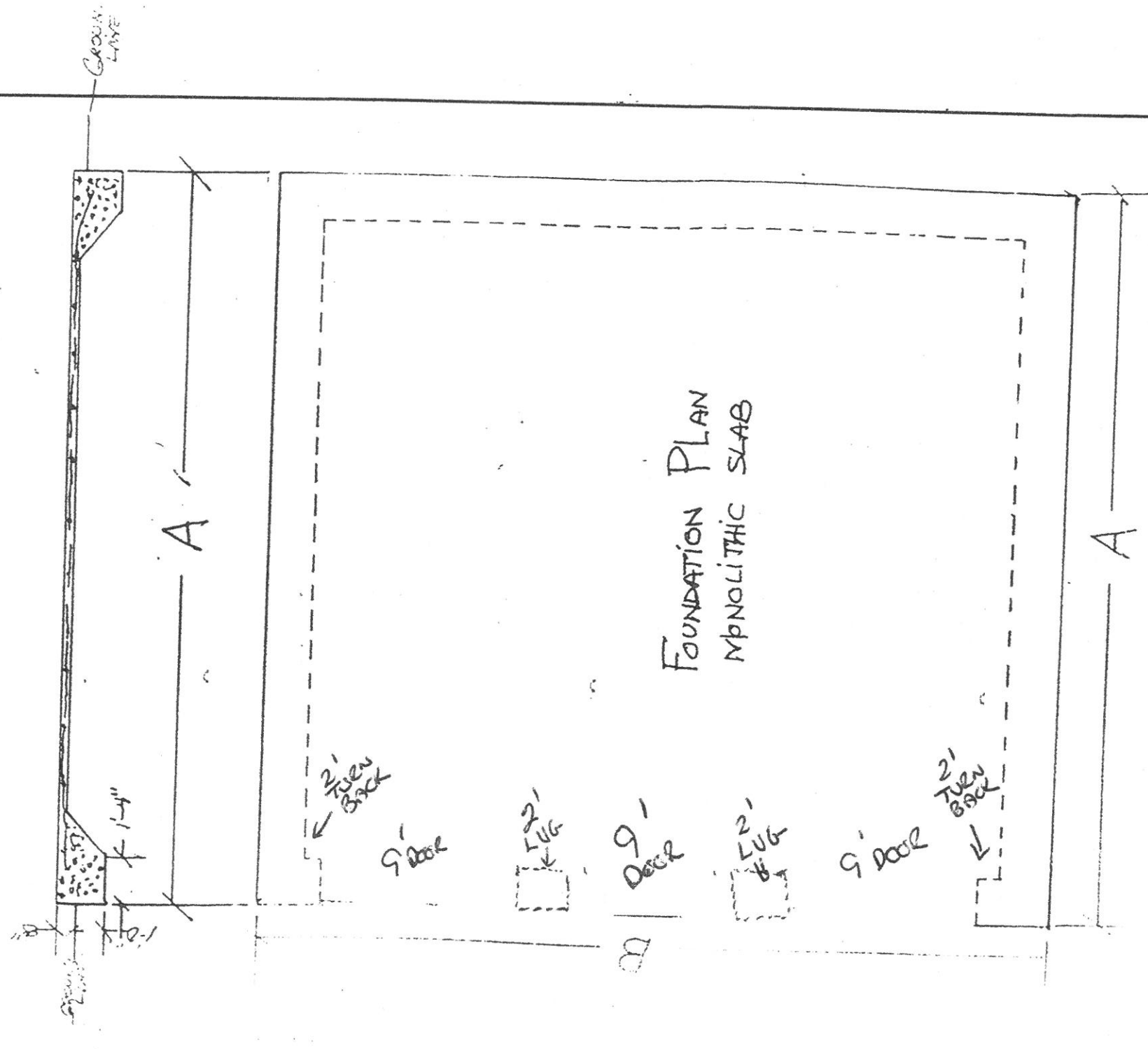
9' DOOR

2' 3" COLUM

9' DOOR

2' 1" WING WALL

GABLE DIMENSION	A	22'	24'	24'	26'	28'	30'	32'	34'	33'
EAVE DIMENSION	B	22'	24'	16"	18"					
LOFT WIDTH	C	14'	16"	18"						
1st FLOOR WALL HGT.	D	8'	9'	10'						
VENTILATION CALCULATION:										roof
										÷ 300 →



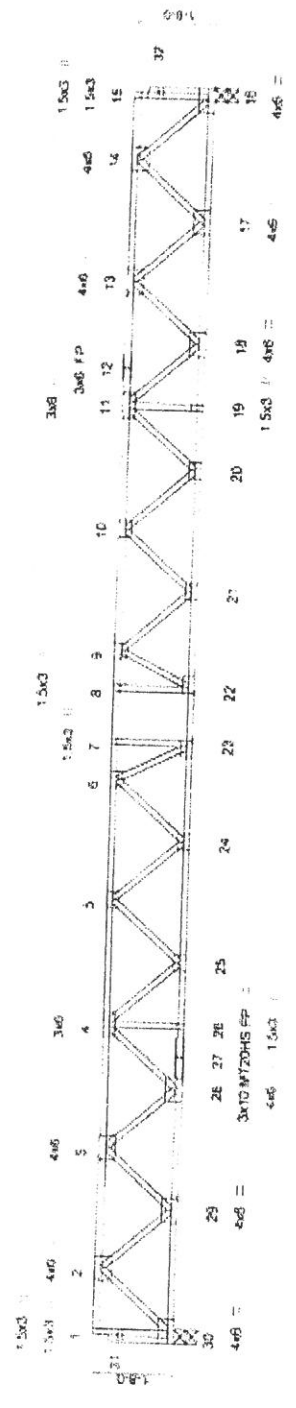


Plate Offsets (X, Y) - [15 Edge 0-1.8] [22 0-1.8] [23 0-1.8] [24 0-1.8] [25 0-1.8] [26 0-1.8] [27 0-1.8] [28 0-1.8] [29 0-1.8] [30 0-1.8]

LOADING (psf)	SPACING.	2-0-0	CSJ	DEFL.	PLATES	GRIP
TCLL 40.0	Plate Grip DO.	1.00	TC	Vert(LL)	M720	24x190
TCDL 10.0	Lumber DOL	1.00	BC	Vert(CT)	M720HS	187x143
BCLL 0.0	Rep Straps incr	YES	WB	Horz(CT)		
BCDL 5.0	Code IBC2015/FP12014		Matrix-R			

LUMBER: 2x4 SP No.2(Flat)
TOP CHORD 2x4 SP No.1(Flat)
WEBS 2x4 SP No.3(Flat)

REACTIONS: (R=Size) 30=14050-3-8, 16=14050-3-8

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2138/0, 3-4=-3731/0, 4-5=-4927/0, 5-6=-5606/0, 6-7=-5854/0, 7-8=-5854/0, 8-9=-5854/0, 9-10=-6271/0, 10-11=-6527/0, 11-12=-6731/0, 12-13=-6731/0, 13-14=-6731/0, 14-15=-6731/0, 15-16=-6731/0, 16-17=-6731/0, 17-18=-6731/0, 18-19=-6731/0, 19-20=-6731/0, 20-21=-6731/0, 21-22=-6731/0, 22-23=-6731/0, 23-24=-6731/0, 24-25=-6731/0, 25-26=-6731/0, 26-27=-6731/0, 27-28=-6731/0, 28-29=-6731/0, 29-30=-6731/0

BOT CHORD 22-23=0.5854, 21-22=0.5823, 20-21=0.5373, 19-20=0.4444, 18-19=0.4444, 17-18=0.3340, 16-17=0.1211

WEBS 13-17=1433/0, 3-28=0.1097, 13-18=0.1097, 4-28=-1.095/0, 11-18=-1.095/0, 4-25=0.743, 11-20=0.743, 5-25=-708/0, 10-20=-708/0, 5-24=0.459, 10-21=0.459, 6-24=-480/0, 5-21=-480/0, 6-23=-352/505, 9-22=-352/505, 7-22=-352/167, 8-22=-306/157

NOTES:
1) Unbalanced floor live loads have been considered for this design.
2) All plates are M720 unless otherwise indicated.
3) All bolts are 3/4" M720 unless otherwise indicated.
4) Recommend 2x8 stringbacks on edge, spaced at 10'-0" oc and fastened to each truss with 3-10d @ 13 1/2" x 3" nails

Stringbacks to be attached to walls at their outer ends or restrained by other means



February 11, 2019

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED METEK REFERENCE PAGE 66-7472 Rev. 10/20/2018 BEFORE USE.
Design valid for use only with METEK connectors. This design is based on the design parameters shown and is for an individual building component, not a truss system. Before use, the building engineer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Sealing indicated is for wind backing of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent member failure with possible personal injury and property damage. For general information regarding the installation, storage, delivery, erection and bracing of truss systems, see the METEK website. For general information regarding the safety information available from Truss Plate Institute, 216 N. Lee Street, Suite 312, Alexandria, VA, 22314.





Double 1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP

PASSED

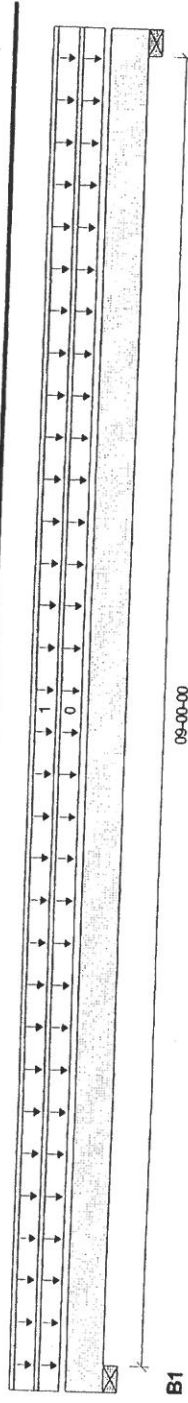
BC CALC® Member Report
Build 6782

Garage Header 4
Dry | 1 span | No cant.

February 6, 2019 16:22:12

Job name: Carolina Custom Homes
Address:
City, State, Zip:
Builder: Builders 1st Source
Code reports: ESR-1040

File name:
Description:
Specifier:
Designer: Andrew Thompson
Company: Boise Cascade BMD



Total Horizontal Product Length = 09-07-00

Reaction Summary (Down / Uplift) (lbs)

Bearing	Live	Dead	Snow	Wind	Roof Live
B1, 3-1/2"	2108 / 0	1447 / 0	1437 / 0		
B2, 3-1/2"	2108 / 0	1447 / 0	1438 / 0		

Load Summary

Tag	Description	Load Type	Ref.	Start	End	Loc.	Live	Dead	Snow	Wind	Roof Live	Tributary
0	Self-Weight	Unf. Lin. (lb/ft)	L	00-00-00	09-07-00	Top	100%	90%	115%	160%		
1		Unf. Lin. (lb/ft)	L	00-00-00	09-07-00	Top	440	290	300			00-00-00

Controls Summary

Pos.	Moment	Value	% Allowable	Duration	Case	Location
End	8920 ft-lbs	8920	36.5 %	115%	3	04-09-08
End	3009 lbs	3009	33.1 %	115%	3	01-03-06
Total	Load Deflection	L/800 (0.137")	30.0 %	n/a	3	04-09-08
Live	Load Deflection	L/999 (0.089")	n/a	n/a	6	04-09-08
Max	Defl.	0.137"	18.2 %	n/a	3	04-09-08
Span /	Depth	9.2				

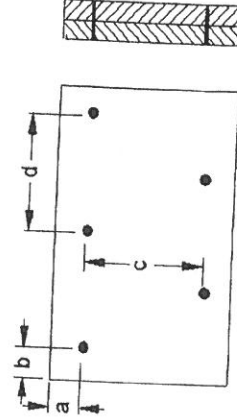
Bearing Supports

Dim. (LxW)	Value	% Allow Support	% Allow Member	Material
3-1/2" x 3-1/2"	4107 lbs	n/a	44.7 %	Unspecified
3-1/2" x 3-1/2"	4107 lbs	n/a	44.7 %	Unspecified

Notes

Design meets Code minimum (L/240) Total load deflection criteria.
 Design meets User specified (L/480) Live load deflection criteria.
 Design meets arbitrary (0.75") 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





Boise Cascade

Double 1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP

PASSED

February 6, 2019 16:22:12

BC CALCO® Member Report
Build 6782

Job name: Carolina Custom Homes

Address:

City, State, Zip:

Builder:

Builders 1st Source

Code reports:

ESR-1040

File name:

Description:

Specifier:

Designer:

Andrew Thompson

Company:

Boise Cascade BMD

Connection Diagram: Full Length of Member

a minimum = 2"

c = 7-7/8"

b minimum = 3"

d = 24"

Member has no side loads.

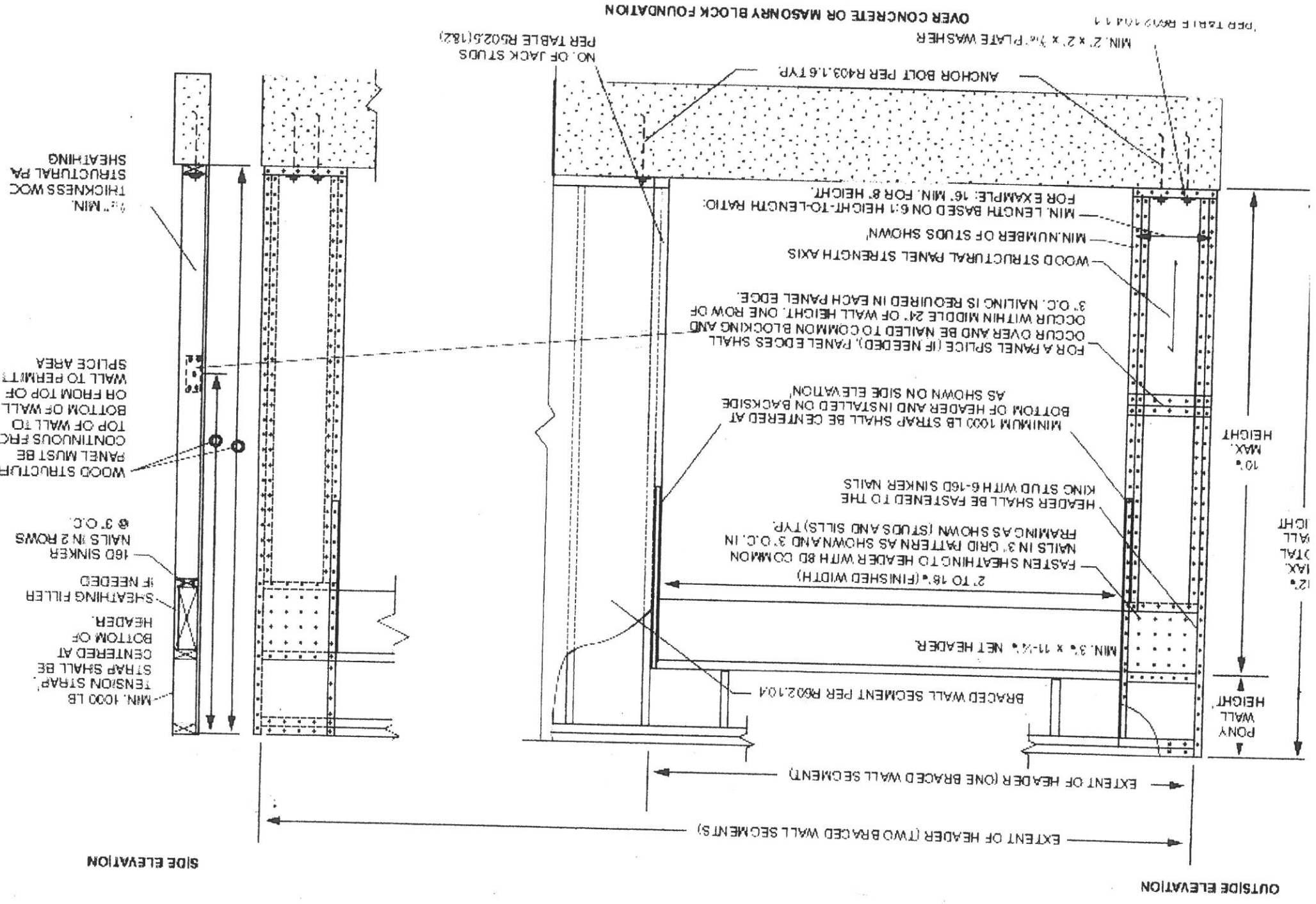
Connectors are: 3-1/4 in. Pneumatic Gun Nails

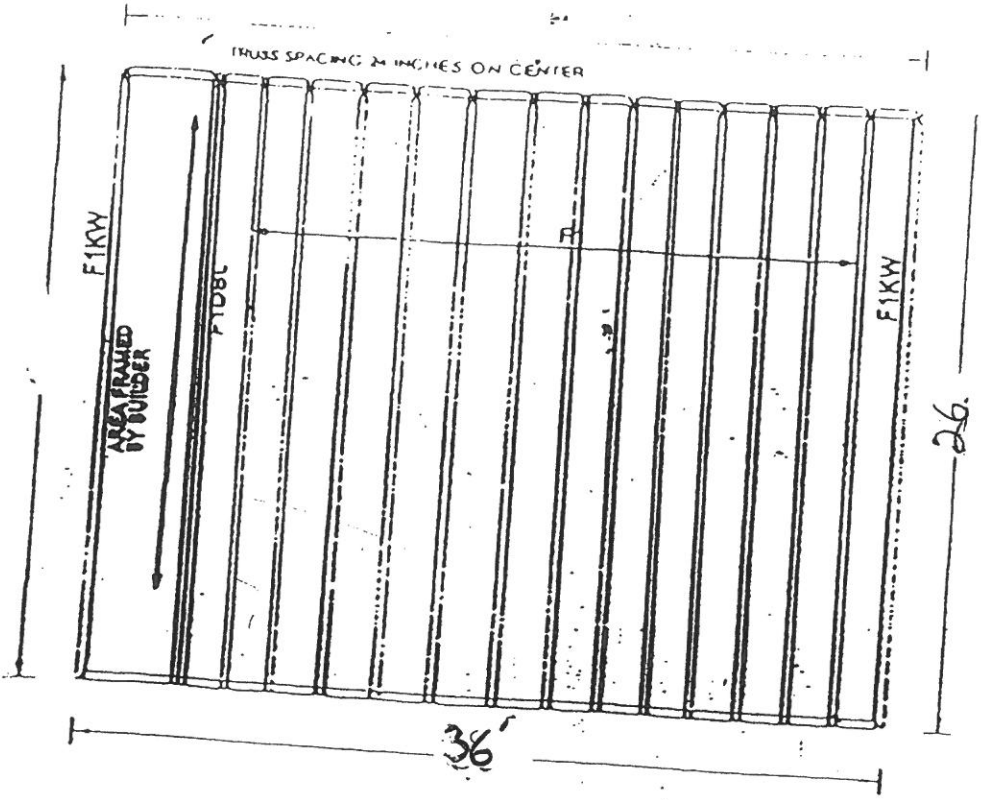


Disclosure

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





FLOOR TRUSS LAYOUT

TRUSS BUILDERS INC.
 10401 CHAPEL HILL RD.
 MORRISVILLE N.C. 27560

JOB# 36x26 GARAGE
 CAROLINA CUSTOM BUILDERS

TRUSS BUILDERS INC.

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