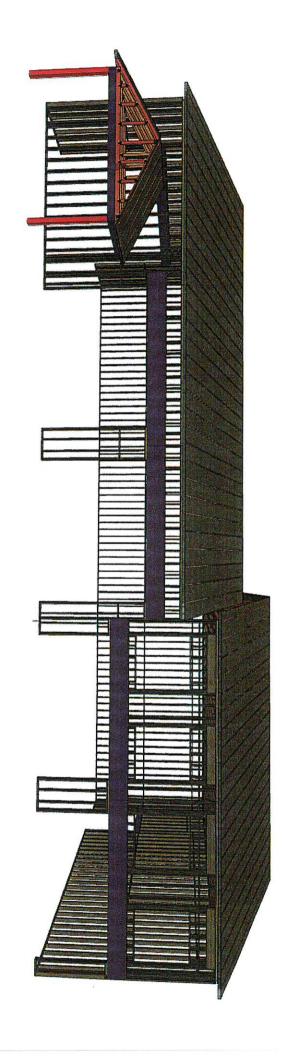
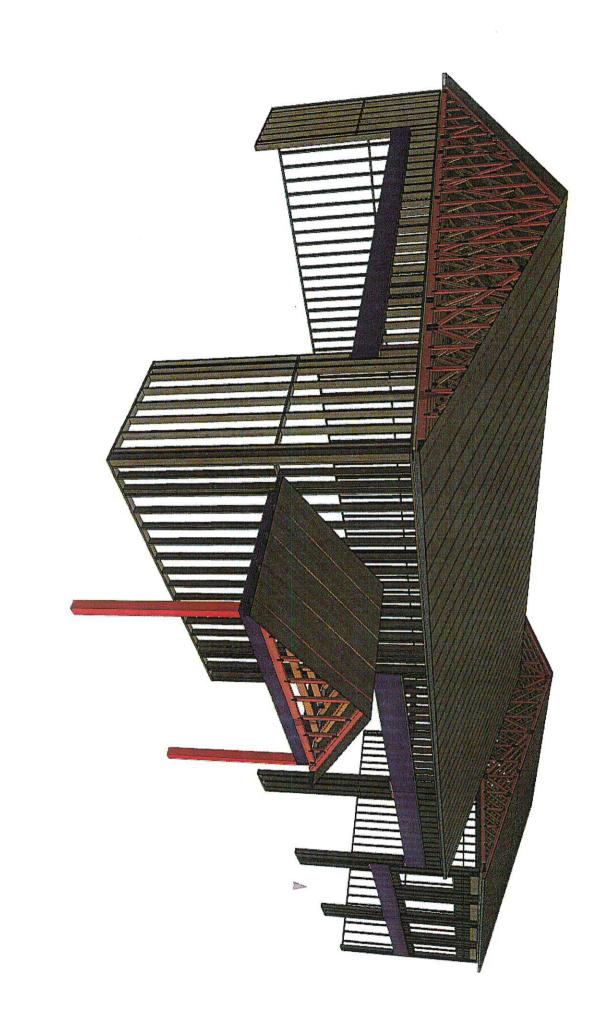
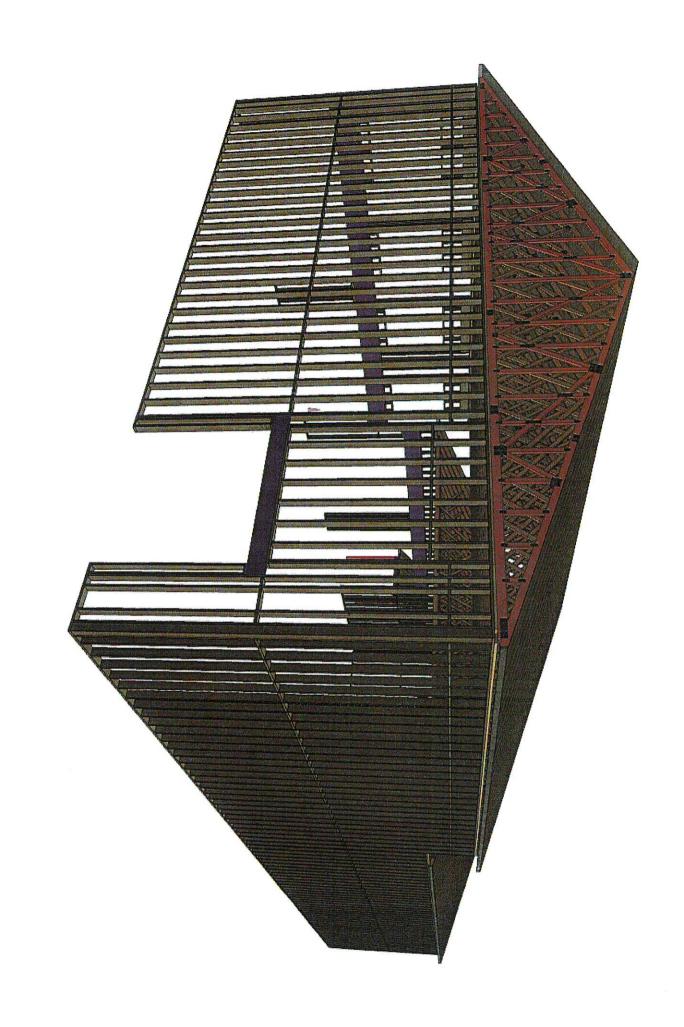


SEE NOTES THROUGHOUT.
MAX STUD HEIGHT IS 10 feet
IF STUD HEIGHT EXCEEDS 10
FT. THEY MUST BE 2X6, 16 OC
WITH BRIDGING NO MORE THAN
4 FEET APART TO A MAX
HEIGHT OF 16 FT.











TYPICAL SLAB DETAIL

[00]

STANDA AS AND AND TON PARIES SELVEL AND ENTRY OF THE BRIS OF FACE PARIES SHARE STAND AND WITHEN 17" OF THE BRIS OF FACE PARIES.

STAND SERVED SERVED WITHER SAC STANDS

WHO DESCRIPTION OF THE SAC STANDS

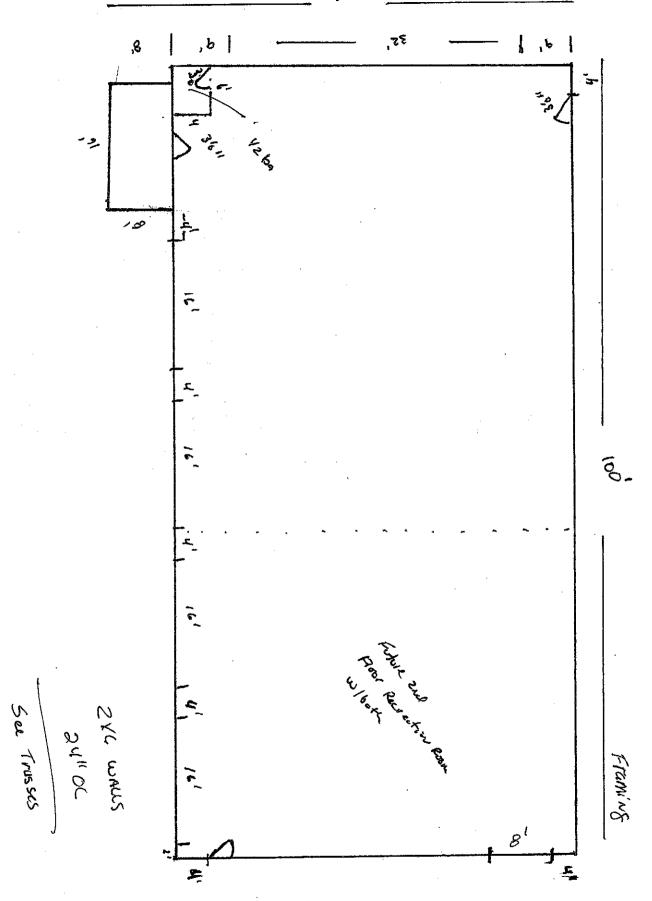
WHO DESCRIPTION OF THE SAC STANDS

DARRESS

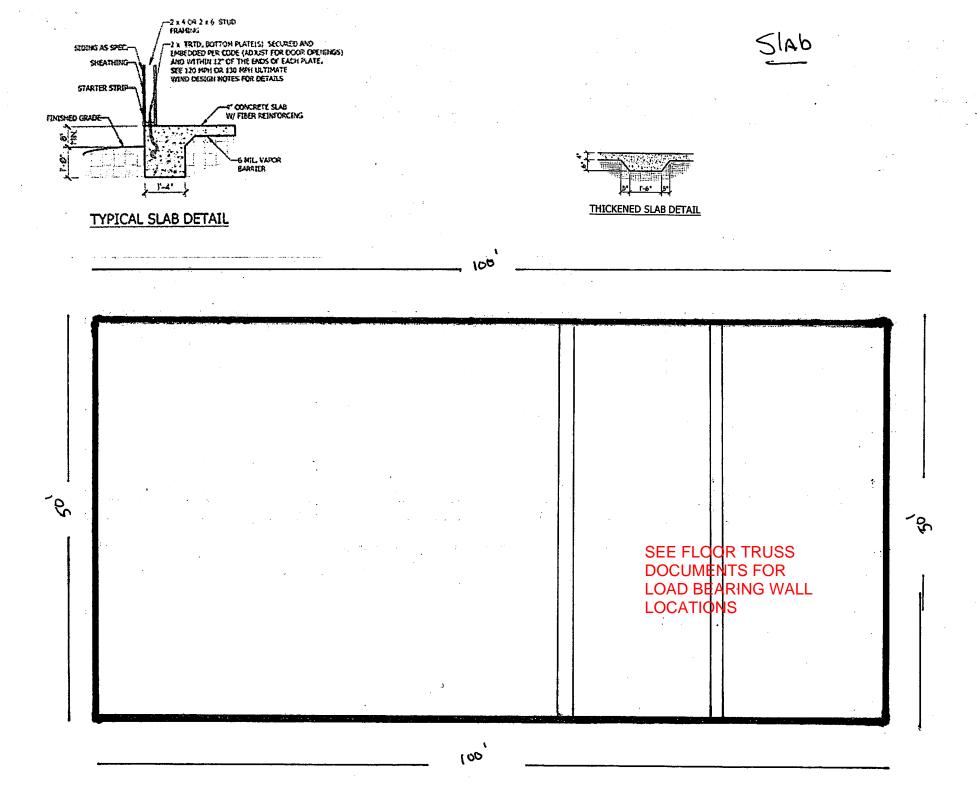
DARRESS

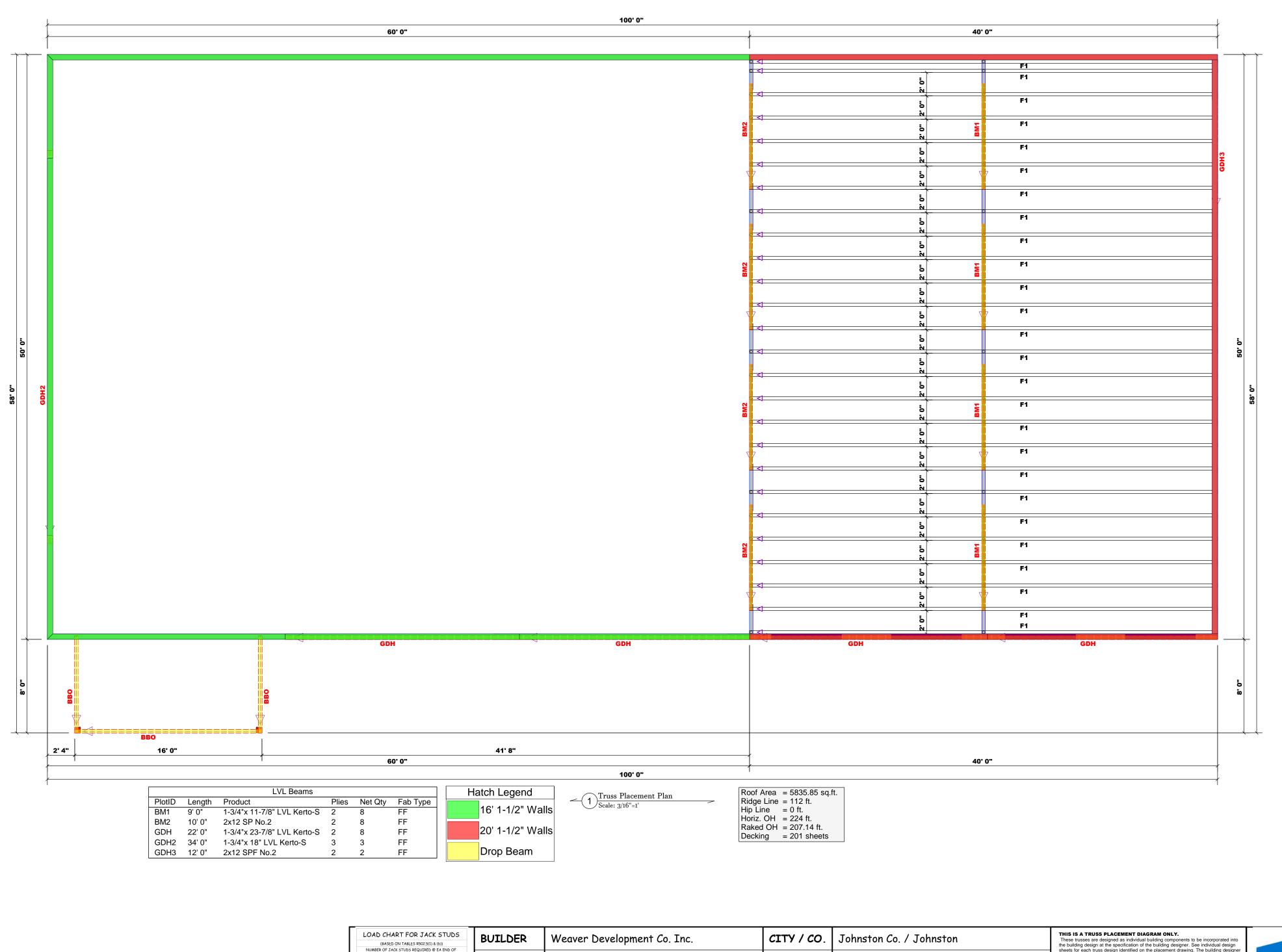
DARRESS

Slab



20" 20" 20" 20" 20" 20" 20" 20" 20" 20" A= Indicates Left End of Truss
(Reference Engineered Truss Drawing)
Do NOT Erect Truss Backwards n Product 2x12 SPF No. 2 1-34*x 18* LVL Kerto-S 2x12 SPF No. 2 LVL Beams 20" 20" Net Qly Fab Type
8 FF
3 FF
2 FF A1 Z 0" LOAD CHART FOR JACK STORM 70" 20" 20- 20-A1 Hatch Legend 70-16' 1-1/2" Walls PLA JOB# QUOTE # SEAL DATE BUILDER 20' 1-1/2" Walls JOB NAME 70. 41.8-A1 70 AT 70-Quote # Seal Date Custom Blackwell Pole Barn Weaver Development Co. Inc. J0323-1063 7 0" Scale: 3/36'uf 70-20-A1 70" 70-20 20 20 A1 SALES REP. Lenny Norris DRAWN BY David Landry DATE REV. 03/08/23 MODEL **ADDRESS** CITY / CO. A1 Site Address Roof Johnston Co. / Johnston 40.0 2.0 2.9 2.0 2.0 A1 A1GE 50' 0" Reilly Road Industrial Park Fayetteville, N.C. 28309 Phone: (910) 864-8787 Fax: (910) 864-4444 ROOF & FLOOR TRUSSES & BEAMS COMTECH





A
= Indicates Left End of Truss
(Reference Engineered Truss Drawing)
Do NOT Erect Truss Backwards

LOAD CHART FOR JACK STUDS (BASED ON TABLES R502.5(1) & (b)) NUMBER OF JACK STUDS REQUIRED © EA END OF		BUILDER	Weaver Development Co. Inc.	CITY / CO.	Johnston Co. / Johnston	THIS IS A These trus the building	
	HEADER/GIRDER	ON S FOR	JOB NAME	Blackwell Pole Barn	ADDRESS	Site Address	sheets for is responsil the overall beams, wa guidance re
END (2) (3) (3) (4) (4) (4)		PLAN	Custom	MODEL	Floor	delivery pa Bearing rea prescriptive	
1700 1 3400 2 5100 3	2550 1 5100 2 7650 3	3400 1 6800 2 10200 3	SEAL DATE	Seal Date	DATE REV.	04/21/23	(derived from foundation stands 3000#
6800 4 8500 5 10200 6	10200 4 12750 5 15300 6	13600 4 17000 5	QUOTE#	Quote #	DRAWN BY	David Landry	be retained specified in retained to
11900 7 13600 8 15300 9			JOB#	J0423-1870	SALES REP.	Lenny Norris	Signature

THIS IS A TRUSS PLACEMENT DIAGRAM ONLY.

These trusses are designed as individual building components to be incorporated into ne building design at the specification of the building designer. See individual design heets for each truss design identified on the placement drawing. The building designer responsible for temporary and permanent bracing of the roof and floor system and for everall structure. The design of the truss support structure including headers, earns, walls, and columns is the responsibility of the building designer. For general uidance regarding bracing, consult BCSI-B1 and BCSI-B3 provided with the truss elivery package or online @ sbcindustry.com

ng reactions less than or equal to 3000# are deemed to comply with the riptive Code requirements. The contractor shall refer to the attached Tables ved from the prescriptive Code requirements) to determine the minimum lation size and number of wood studs required to support reactions greater 3000# but not greater than 15000#. A registered design professional shall tained to design the support system for any reaction that exceeds those fied in the attached Tables. A registered design professional shall be led to design the support system for all reactions that exceed 15000#.

support system for all reactions that exceed 15

David Landry

David Landry



Reilly Road Industrial Park Fayetteville, N.C. 28309 Phone: (910) 864-8787 Fax: (910) 864-4444

Job	Truss	Truss Type	Qty	Ply	Blackwell Pole Barn
J0423-1870	F1	Floor	26	1	
					Job Reference (optional)

Comtech, Inc., Fayetteville, NC 28309, David Landry

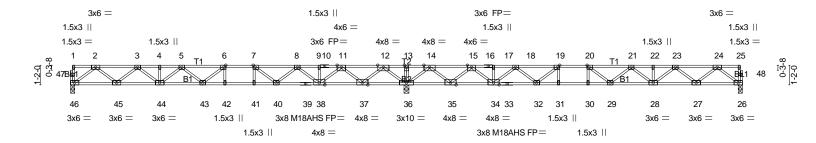
8.430 s May 12 2021 MiTek Industries, Inc. Fri Apr 21 09:31:55 2023 Page 1 $ID:QIPTOEKJ7EVp_7FWxEI97RzajZS-cl1oAqF6n30tkmjQDr32yNdYTF3MbsEe5ylEOTzOYUo$

0-1-8 HI1-3-0

1-7-8

1-7-8

0-1-8 Scale = 1:68.6



	20-0-0	4051 170004051 1	20-0-0						
Plate Offsets (X,Y) [6:0-1-8,Edge], [7:0-1-8,Edge], [19:0-1-8,Edge], [20:0-1-8,Edge]									
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP					
TCLL 40.0	Plate Grip DOL 1.00	TC 0.96	Vert(LL) -0.33 29-30 >720 480	MT20 244/190					
TCDL 10.0	Lumber DOL 1.00	BC 0.79	Vert(CT) -0.43 29-30 >556 360	M18AHS 186/179					
BCLL 0.0	Rep Stress Incr YES	WB 0.78	Horz(CT) 0.06 26 n/a n/a						
BCDL 5.0	Code IRC2015/TPI2014	Matrix-S	, ,	Weight: 202 lb FT = 20%F, 11%E					

I UMRER-TOP CHORD 2x4 SP No.1(flat)

BOT CHORD 2x4 SP 2400F 2.0E(flat) WEBS

2x4 SP No.3(flat)

BRACING-

TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except

40-0-0

BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

Max Grav 46=932(LC 3), 36=2672(LC 1), 26=932(LC 4)

20-0-0

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD

2-3=-1965/0, 3-4=-3230/0, 4-5=-3230/0, 5-6=-3759/0, 6-7=-3720/55, 7-8=-3112/449, 8-9=-1842/1066, 9-10=-1842/1066, 10-11=-1842/1066, 11-12=0/1919, 12-13=0/4575 13-14=0/4575, 14-15=0/1919, 15-16=-1842/1066, 16-17=-1842/1066, 17-18=-1842/1066, 18-19=-3112/449, 19-20=-3720/55, 20-21=-3759/0, 21-22=-3230/0, 22-23=-3230/0,

23-24=-1965/0

45-46=0/1169, 44-45=0/2724, 43-44=0/3670, 42-43=-55/3720, 41-42=-55/3720,

REACTIONS. (lb/size) 46=844/0-3-0 (min. 0-1-8), 36=2672/0-3-8 (min. 0-1-8), 26=844/0-3-0 (min. 0-1-8)

40-41=-55/3720, 39-40=-747/2612, 38-39=-747/2612, 37-38=-1470/933, 36-37=-2923/0, 35-36=-2923/0, 34-35=-1470/933, 33-34=-747/2612, 32-33=-747/2612, 31-32=-55/3720,

30-31=-55/3720, 29-30=-55/3720, 28-29=0/3670, 27-28=0/2724, 26-27=0/1169

WEBS 2-46=-1464/0, 2-45=0/1036, 3-45=-989/0, 3-44=0/645, 5-44=-563/12, 12-36=-2074/0, 12-37=0/1640, 11-37=-1621/0, 11-38=0/1308, 8-38=-1102/0, 8-40=0/852, 7-40=-1177/0,

6-43=-85/604, 6-42=-415/0, 7-41=0/441, 24-26=-1464/0, 24-27=0/1036, 23-27=-989/0, 23-28=0/645, 21-28=-563/12, 20-29=-85/604, 14-36=-2074/0, 14-35=0/1640, 15-35=-1621/0, $15 - 34 = 0/1308,\ 18 - 34 = -1102/0,\ 18 - 32 = 0/852,\ 19 - 32 = -1177/0,\ 19 - 31 = 0/441,\ 20 - 30 = -415/0$

NOTES-

BOT CHORD

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All plates are MT20 plates unless otherwise indicated.
- 3) All plates are 3x4 MT20 unless otherwise indicated.
- 4) Plates checked for a plus or minus 1 degree rotation about its center.
- 5) 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.
- 6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 7) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard



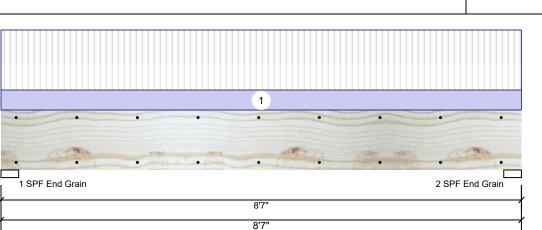
Client: Weaver Development Co. Inc.

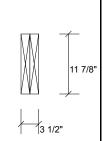
Project: Address: Date: 4/21/2023

Input by: David Landry Job Name: Blackwell Pole Barn Project #: J0323-1063

evel: Level

1.750" X 11.875" Kerto-S LVL 2-Ply - PASSED BM1





Page 1 of 4

Member Information

Type:	Girder
Plies:	2
Moisture Condition:	Dry
Deflection LL:	480
Deflection TL:	360
Importance:	Normal - II
Temperature:	Temp <= 100°F

Application: Floor Design Method: ASD **Building Code: IBC/IRC 2015** Load Sharing: No Not Checked Deck: Ceiling: Gypsum 1/2"

Reactions UNPATTERNED lb (Uplift)									
Brg	Direction	Live	Dead	Snow	Wind	Const			
1	Vertical	4300	1473	0	0	0			
2	Vertical	4300	1473	0	0	0			

Analysis Results

, ,						
Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	11101 ft-lb	4'3 1/2"	19911 ft-lb	0.558 (56%)	D+L	L
Unbraced	11101 ft-lb	4'3 1/2"	11114 ft-lb	0.999 (100%)	D+L	L
Shear	4059 lb	1'3 3/8"	8867 lb	0.458 (46%)	D+L	L
LL Defl inch	0.124 (L/789)	4'3 9/16"	0.203 (L/480)	0.608 (61%)	L	L
TL Defl inch	0.166 (L/588)	4'3 9/16"	0.271 (L/360)	0.612 (61%)	D+L	L

Bearings

Bearing	Length	Dir.	Сар.	React D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF End Grain	3.500"	Vert	56%	1473 / 4300	5773	L	D+L
2 - SPF End Grain	3.500"	Vert	56%	1473 / 4300	5773	L	D+L

Design Notes

- 1 Provide support to prevent lateral movement and rotation at the end bearings. Lateral support may also be required at the interior bearings by the building code.
- 2 Fasten all plies using 2 rows of 10d Box nails (.128x3") at 12" o.c. Maximum end distance not to exceed 6".
- 3 Refer to last page of calculations for fasteners required for specified loads.
- 4 Girders are designed to be supported on the bottom edge only.
- 5 Top loads must be supported equally by all plies.
- 6 Top must be laterally braced at a maximum of 7'10 7/16" o.c.

7 Lateral slenderness ratio based on single ply width.

ID	Load Type	Location	Trib Width	Side	Dead 0.9	Live 1	Snow 1.15	Wind 1.6	Const. 1.25	Comments
1	Uniform			Тор	334 PLF	1002 PLF	0 PLF	0 PLF	0 PLF	F1
	Self Weight				9 PLF					

Calculated Structured Designs is responsible only of the structural adequacy of this component based on the design criteria and loadings shown. It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended application, and to verify the dimensions and loads.

Dry service conditions, unless noted otherwise
 LVL not to be treated with fire retardant or corrosive

Handling & Installation

- LVL beams must not be cut or drilled
 Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code approvals

 2 Damaged Beams must not be used
- Design assumes top edge is laterally restrained
 Provide lateral support at bearing points to avoid
 lateral displacement and rotation
- 6. For flat roofs provide proper drainage to prevent ponding

This design is valid until 11/3/2024

Metsä Wood 301 Merritt 7 Building, 2nd Floor Norwalk, CT 06851 (800) 622-5850 www.metsawood.com/us

Manufacturer Info

Comtech Comiech Reilly Road Industrial Park P.O. Box 40408, NC USA 28309 910-864-8787





isDesign

Client: Weaver Development Co. Inc.

Project: Address:

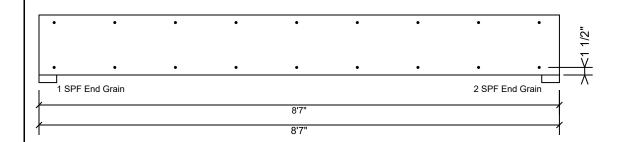
4/21/2023

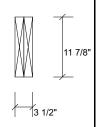
Input by: David Landry Job Name: Blackwell Pole Barn Project #: J0323-1063

1.750" X 11.875" **Kerto-S LVL** 2-Ply - PASSED BM1

evel: Level

Date:





Page 2 of 4

Multi-Ply Analysis

Fasten all plies using 2 rows of 10d Box nails (.128x3") at 12" o.c.. Maximum end distance not to exceed 6".

Capacity	0.0 %
Load	0.0 PLF
Yield Limit per Foot	163.7 PLF
Yield Limit per Fastener	81.9 lb.
Yield Mode	IV
Edge Distance	1 1/2"
Min. End Distance	3"
Load Combination	
Duration Factor	1.00

Notes

NOtes
Calculated Structured Designs is responsible only of the structural adequacy of this component based on the design criteria and loadings shown. It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended application, and to verify the dimensions and loads.

- Dry service conditions, unless noted otherwise
 LVL not to be treated with fire retardant or corrosive

Handling & Installation

- Handling & Installation

 1. UVI beams must not be cut or drilled

 2. Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code approvals

 3. Damaged Beams must not be used

 4. Design assumes top edge is laterally restrained

 5. Provide lateral support at bearing points to avoid lateral displacement and rotation

For flat roofs provide proper drainage to prevent ponding

This design is valid until 11/3/2024

Manufacturer Info

Metsä Wood 301 Merritt 7 Building, 2nd Floor Norwalk, CT 06851 (800) 622-5850 www.metsawood.com/us

Comtech Reilly Road Industrial Park P.O. Box 40408, NO USA 28309 910-864-8787







Client: Project: Address: Weaver Development Co. Inc.

Date: 4/21/2023

Input by: David Landry Job Name: Blackwell Pole Barn Project #: J0323-1063

2.000" X 12.000" 2-Ply - PASSED S-P-F #2 BM1x

Application:

Design Method:

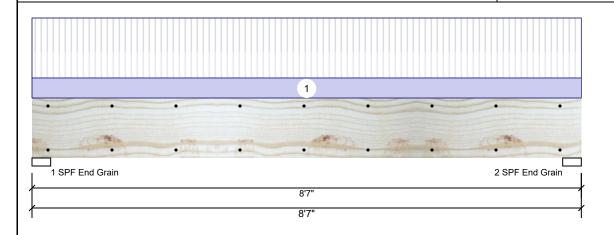
Building Code:

Load Sharing:

Deck:

Ceiling:

Level: Level



Floor

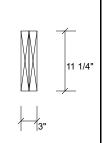
ASD

No

IBC/IRC 2015

Not Checked

Gypsum 1/2"



Ld. Comb.

D+L

D+L

Page 3 of 4

Member Information

Type.	Giraei
Plies:	2
Moisture Condition:	Dry
Deflection LL:	480
Deflection TL:	360
Importance:	Normal -

- II

Temp <= 100°F Temperature:

Reactions UNPATTERNED Ib (Uplift)

Dir.

Vert

Vert

Bearings Bearing Length

End Grain

End Grain

1-SPF 3.500"

2 - SPF 3.500"

Brg	Direction	Live	Dead	Snow	Wind	Const
1	Vertical	1502	502	0	0	0
2	Vertical	1502	502	0	0	0

Cap. React D/L lb

502 / 1502

502 / 1502

45%

45%

Total Ld. Case

2004 L

2004 L

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	3854 ft-lb	4'3 1/2"	4614 ft-lb	0.835 (84%)	D+L	L
Unbraced	3854 ft-lb	4'3 1/2"	3859 ft-lb	0.999 (100%)	D+L	L
Shear	1430 lb	7'4 1/4"	3038 lb	0.471 (47%)	D+L	L
LL Defl inch	0.069 (L/1416)	4'3 9/16"	0.203 (L/480)	0.339 (34%)	L	L
TL Defl inch	0.092 (L/1061)	4'3 9/16"	0.271 (L/360)	0.339 (34%)	D+L	L

Design Notes

- 1 Provide support to prevent lateral movement and rotation at the end bearings. Lateral support may also be required at the interior bearings by the building code.
- 2 Fasten all plies using 2 rows of 10d Box nails (.128x3") at 12" o.c. Maximum end distance not to exceed 6".
- 3 Refer to last page of calculations for fasteners required for specified loads.
- 4 Girders are designed to be supported on the bottom edge only.
- 5 Top loads must be supported equally by all plies.
- 6 Top must be laterally braced at a maximum of 7'9 5/16" o.c.

7 Lateral slenderness ratio based on single ply width.

ID	Load Type	Location	Trib Width	Side	Dead 0.9	Live 1	Snow 1.15	Wind 1.6	Const. 1.25	Comments
1	Uniform			Ton	117 PI F	350 PLF	0 PI F	0 PI F	0 PI F	F1

This design is valid until 11/3/2024

Manufacturer Info Comtech Comech Reilly Road Industrial Park P.O. Box 40408, NO USA 28309 910-864-8787 соттесн

isDesign

Client: Weaver I Project:

Weaver Development Co. Inc.

Date: 4/21/2023

Input by: David Landry

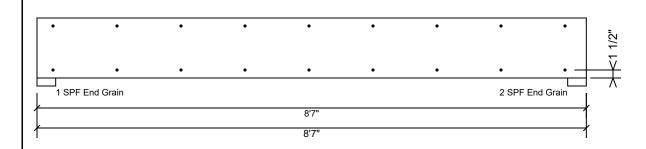
Job Name: Blackwell Pole Barn

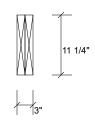
Project #: J0323-1063

BM1x S-P-F #2 2.000" X 12.000" 2-Ply - PASSED

Address:

Level: Level





Page 4 of 4

Multi-Ply Analysis

Fasten all plies using 2 rows of 10d Box nails (.128x3") at 12" o.c.. Maximum end distance not to exceed 6".

This design is valid until 11/3/2024

Capacity	0.0 %
Load	0.0 PLF
Yield Limit per Foot	157.4 PLF
Yield Limit per Fastener	78.7 lb.
Yield Mode	IV
Edge Distance	1 1/2"
Min. End Distance	3"
Load Combination	
Duration Factor	1.00

Manufacturer Info

Comtech
Relly Road Industrial Park P.O. Box 40408, NC
USA
28309
910-864-8787