



Lumber design values are in accordance with ANSI/TPI 1 section 6.3
These truss designs rely on lumber values established by others.

RE: 2904837 -

MITek USA, Inc.
6904 Parke East Blvd.
Tampa, FL 33610-4115

Site Information:
Customer Info: Jim Williams Project Name: Model: Williams Res
Lot/Block: **LOT-4-B**
Address: **OAK HAVEN**
City: Lake City
State: FL

Name Address and License # of Structural Engineer of Record, if there is one, for the building.
Name: **THOMAS JAMES MCKEE JR.**
Address: **317 - MEMORIAL DR.**
City: **CHULUOTHA**
State: **FL**
License #:

General Truss Engineering Criteria & Design Loads (Individual Truss Design Drawings Show Special Loading Conditions):
Design Code: **FBCG2020/TPI2014**
Wind Code: **ASCE 7-16**
Roof Load: **40.0 psf**
Floor Load: **N/A psf**

Design Program: **MITek 20/20 8.4**
Wind Speed: **140 mph**
Floor Load: **N/A psf**

This package includes 89 individual, Truss Design Drawings and 0 Additional Drawings.
With my seal affixed to this sheet, I hereby certify that I am the Truss Design Engineer and this index sheet conforms to 61G15-31.003, section 5 of the Florida Board of Professional Engineers Rules.

No.	Seal#	Truss Name	Date	No.	Seal#	Truss Name	Date
1	T26407393	A01	1/4/22	15	T26407407	A14	1/4/22
2	T26407394	A02	1/4/22	16	T26407408	A15	1/4/22
3	T26407395	A03	1/4/22	17	T26407409	A16	1/4/22
4	T26407396	A04	1/4/22	18	T26407410	A17	1/4/22
5	T26407397	A05	1/4/22	19	T26407411	A18	1/4/22
6	T26407398	A06	1/4/22	20	T26407412	A19	1/4/22
7	T26407399	A07	1/4/22	21	T26407413	A20	1/4/22
8	T26407400	A08	1/4/22	22	T26407414	A21	1/4/22
9	T26407401	A09	1/4/22	23	T26407415	A22	1/4/22
10	T26407402	A09A	1/4/22	24	T26407416	B01	1/4/22
11	T26407403	A10	1/4/22	25	T26407417	B02	1/4/22
12	T26407404	A11	1/4/22	26	T26407418	B03	1/4/22
13	T26407405	A12	1/4/22	27	T26407419	B04	1/4/22
14	T26407406	A13	1/4/22	28	T26407420	B05	1/4/22

This item has been electronically signed and sealed by Oregon, Philip, PE using a Digital Signature.
Printed copies of this document are not considered signed and the signature must be verified on any electronic copies

The truss drawing(s) referenced above have been prepared by
MITek USA, Inc. under my direct supervision based on the parameters
provided by Builders FirstSource (Groveland, FL).
Truss Design Engineer's Name: Oregon, Philip
My license renewal date for the state of Florida is February 28, 2023.

IMPORTANT NOTE: The seal on these truss component designs is a certification that the engineer named is licensed in the jurisdiction(s) identified and that the designs comply with ANSI/TPI 1. These designs are based upon parameters shown (e.g., loads, supports, dimensions, shapes and design codes), which were given to MITek or TRENCO. Any project specific information included is for MITek's or TRENCO's customers file reference purpose only, and was not taken into account in the preparation of these designs. MITek or TRENCO has not independently verified the applicability of the design parameters or the designs for any particular building. Before use, the building designer should verify applicability of design parameters and properly incorporate these designs into the overall building design per ANSI/TPI 1, Chapter 2.



Philip J. Oregon PE No. 58126
MITek USA, Inc. FL Cert 6634
6904 Parke East Blvd, Tampa FL 33610
Date:

4/20



Lumber design values are in accordance with ANSI/TPI 1 section 6.3
These truss designs rely on lumber values established by others.

RE: 2904837 -

Mitek USA, Inc.
6904 Parke East Blvd.
Tampa, FL 33610-4115

Site Information:
Customer Info: Jim Williams Project Name: Model: Williams Res
Lot/Block: Subdivision:
Address: 500 S Highway 247, City: Lake City
State: FL

Name Address and License # of Structural Engineer of Record, if there is one, for the building.
Name: License #:
Address: State:

General Truss Engineering Criteria & Design Loads (Individual Truss Design Drawings Show Special Loading Conditions):
Design Code: FBC2020/TPI2014
Wind Code: ASCE 7-16
Roof Load: 40.0 psf
Floor Load: N/A psf

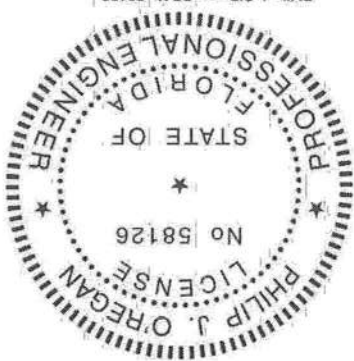
This package includes 89 individual, Truss Design Drawings and 0 Additional Drawings.
With my seal affixed to this sheet, I hereby certify that I am the Truss Design Engineer and this index sheet conforms to 61G15-31.003, section 5 of the Florida Board of Professional Engineers Rules.

No.	Seal#	Truss Name	Date	No.	Seal#	Truss Name	Date
1	T26407393	A01	1/4/22	15	T26407407	A14	1/4/22
2	T26407394	A02	1/4/22	16	T26407408	A15	1/4/22
3	T26407395	A03	1/4/22	17	T26407409	A16	1/4/22
4	T26407396	A04	1/4/22	18	T26407410	A17	1/4/22
5	T26407397	A05	1/4/22	19	T26407411	A18	1/4/22
6	T26407398	A06	1/4/22	20	T26407412	A19	1/4/22
7	T26407399	A07	1/4/22	21	T26407413	A20	1/4/22
8	T26407400	A08	1/4/22	22	T26407414	A21	1/4/22
9	T26407401	A09	1/4/22	23	T26407415	A22	1/4/22
10	T26407402	A09A	1/4/22	24	T26407416	B01	1/4/22
11	T26407403	A10	1/4/22	25	T26407417	B02	1/4/22
12	T26407404	A11	1/4/22	26	T26407418	B03	1/4/22
13	T26407405	A12	1/4/22	27	T26407419	B04	1/4/22
14	T26407406	A13	1/4/22	28	T26407420	B05	1/4/22

This item has been electronically signed and sealed by O'Regan, Philip, PE using a Digital Signature.
Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

The truss drawing(s) referenced above have been prepared by
MITek USA, Inc. under my direct supervision based on the parameters
provided by Builders FirstSource (GroveLand, FL).
Truss Design Engineer's Name: O'Regan, Philip
My license renewal date for the state of Florida is February 28, 2023.

IMPORTANT NOTE: The seal on these truss component designs is a certification
that the engineer named is licensed in the jurisdiction(s) identified and that the
designs comply with ANSI/TPI 1. These designs are based upon parameters
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given to MITek or TRENCO. Any project specific information included is for MITek's or
TRENCO's customers file reference purpose only, and was not taken into account in the
preparation of these designs. MITek or TRENCO has not independently verified the
applicability of the design parameters or the designs for any particular building. Before use,
the building designer should verify applicability of design parameters and properly
incorporate these designs into the overall building design per ANSI/TPI 1, Chapter 2.



Philip J. O'Regan PE No. 58126
MITek USA, Inc. FL Cert 6634
6904 Parke East Blvd, Tampa FL 33610
Date:



MITek USA, Inc.
6904 Parke East Blvd.
Tampa, FL 33610-4115

RE: 2904837 -

Site Information:
Customer Info: Jim Williams Project Name: Model: Williams Res
Lot/Block: Address: 500 S Highway 247, City: Lake City
State: FL

No.	Seal#	Truss Name	Date	No.	Seal#	Truss Name	Date
29	T26407421	B06	1/4/22	86	T26407478	V11	1/4/22
30	T26407422	B07	1/4/22	87	T26407479	V12	1/4/22
31	T26407423	B08	1/4/22	88	T26407480	V13	1/4/22
32	T26407424	B09	1/4/22	89	T26407481	V14	1/4/22
33	T26407425	B10	1/4/22				
34	T26407426	B11	1/4/22				
35	T26407427	B12	1/4/22				
36	T26407428	B13	1/4/22				
37	T26407429	B14	1/4/22				
38	T26407430	B15	1/4/22				
39	T26407431	CJ01	1/4/22				
40	T26407432	CJ01A	1/4/22				
41	T26407433	CJ03	1/4/22				
42	T26407434	CJ03A	1/4/22				
43	T26407435	CJ05	1/4/22				
44	T26407436	CJ05A	1/4/22				
45	T26407437	D01	1/4/22				
46	T26407438	D02	1/4/22				
47	T26407439	D03	1/4/22				
48	T26407440	D04	1/4/22				
49	T26407441	D05	1/4/22				
50	T26407442	D06	1/4/22				
51	T26407443	D07	1/4/22				
52	T26407444	D08	1/4/22				
53	T26407445	EJ03	1/4/22				
54	T26407446	EJ03A	1/4/22				
55	T26407447	EJ03B	1/4/22				
56	T26407448	EJ03C	1/4/22				
57	T26407449	EJ05	1/4/22				
58	T26407450	EJ05B	1/4/22				
59	T26407451	EJ07	1/4/22				
60	T26407452	EJ07B	1/4/22				
61	T26407453	EJ07C	1/4/22				
62	T26407454	G01	1/4/22				
63	T26407455	G02	1/4/22				
64	T26407456	G02A	1/4/22				
65	T26407457	HJ01	1/4/22				
66	T26407458	HJ02	1/4/22				
67	T26407459	HJ03	1/4/22				
68	T26407460	HJ04	1/4/22				
69	T26407461	HJ05	1/4/22				
70	T26407462	HJ06	1/4/22				
71	T26407463	K01	1/4/22				
72	T26407464	K02	1/4/22				
73	T26407465	K02A	1/4/22				
74	T26407466	N01	1/4/22				
75	T26407467	N02	1/4/22				
76	T26407468	V01	1/4/22				
77	T26407469	V02	1/4/22				
78	T26407470	V03	1/4/22				
79	T26407471	V04	1/4/22				
80	T26407472	V05	1/4/22				
81	T26407473	V06	1/4/22				
82	T26407474	V07	1/4/22				
83	T26407475	V08	1/4/22				
84	T26407476	V09	1/4/22				
85	T26407477	V10	1/4/22				

Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
2904837	A01	Root Special Girder	1	2	T26407393

Builders FirstSource (Groveand, FL), Groveand, FL - 34736,

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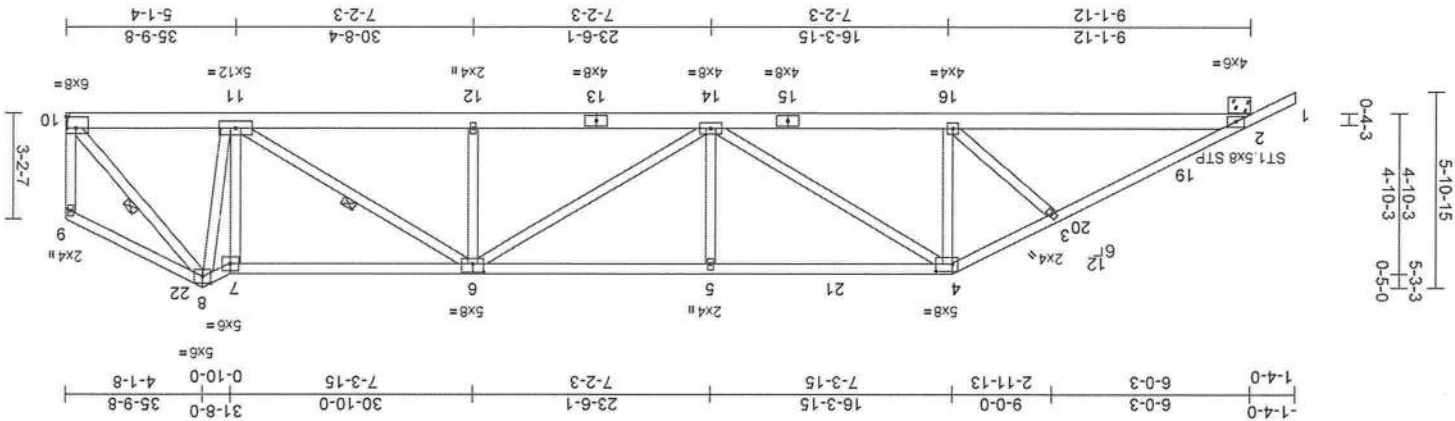
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Job	2904837	Truss	A02	Truss Type	Roof Special	Qty	1	Ply	1	Job Reference (optional)	T26407394
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Builders FirstSource (Groveand, FL), Groveand, FL - 34736.

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ID: aX3vAwF6eZNOzFD04Bgjy4aO-RtC7P5B70Hq3NSgPqnlbW3uITXBGKVVJC77



Scale = 1/67.1

Plate Offsets (X, Y): [4.0-6.0-0.2-8], [6.0-4.0-0.3-0], [1.0-Edge, 0.4-0]

Loading	Spacing	Code	Matrix-AS	Wind	DEFLECT	in (loc)	l/defl	L/D	PLATES	GRIP	Weight: 228 lb FT = 20%
BCDL	10.0	Rep Stress Incr	WB	0.72	Horz(CT)	0.09	10	n/a	MT20	244/190	
BCLL	0.0	Lumber DOL	BC	0.61	Vert(CT)	-0.36	12-14	>999	240		
TCDD	10.0	Plate Gnp DOL	TC	0.68	Wind(LL)	0.27	12-14	>999	240		
TCLL (roof)	20.0										

LUMBER

2x4 SP No 2

TOP CHORD

2x6 SP No 2

BOT CHORD

2x4 SP No 3

WEBS

BRACING

Structural wood sheathing directly applied,

except end verticals.

TOP CHORD

1 Row at midpt 6'-1, 8'-10

WEBS

(lb/size) 2=1507/0-8-0, 10=1424/

REACTIONS

Max Horiz 2=236 (LC 7)

(lb) - Maximum Compression/Maximum

Tension

1-2=0/36, 2-3=2709/1426, 3-4=2495/1341,

4-5=2875/1593, 5-7=2875/1593,

7-8=1594/908, 8-9=1381/166, 9-10=135/164

2-16=1309/2382, 14-16=1116/2208

12-14=1309/2628, 11-12=1309/2628,

10-11=445/1052

4-16=130/462, 4-14=536/782

5-14=452/394, 6-14=182/308, 6-12=0/304,

6-1=1479/806, 7-1=949/649,

8-1=1021/1881, 8-10=1607/749,

3-16=251/264

NOTES

1) Unbraced roof live loads have been considered for

this design.

- 2) Wind: ASCE 7-16; Vult=140mph (3-second gust)
Vasd=108mph; TCDD=4.2psf; BCDL=5.0psf; h=25ft;
Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior
zone and C-C Exterior(2E) -1-4-0 to 2-2-15, Interior
(1) 12-6-15 to 30-10-0, Exterior(2R) 30-10-0 to 32-0-13,
and right exposed; C-C for members and forces &
MWFRS for reactions shown; Lumber DOL=1.60 plate
grp DOL=1.60
3) Building Designer / Project engineer responsible for
verifying applied roof live load shown covers rain loading
requirements specific to the use of this truss component.
- 4) Provide adequate drainage to prevent water ponding.
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'-06-00 tall by 2'-00-00 wide will fit between the bottom
chord and any other members.
7) Refer to girders(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to
bearing plate capable of withstanding 794 lb uplift at
joint 2 and 660 lb uplift at joint 10.
9) This truss design requires that a minimum of 7/16"
structural wood sheathing be applied directly to the top
the bottom chord.

LOAD CASE(S) Standard

This item has been
electronically signed and
sealed by O'Regan, Philip, PE
using a Digital Signature.
Printed copies of this
document are not considered
signed and sealed and the
signature must be verified
on any electronic copies.
Philip J. O'Regan PE No.58126
Mitek USA, Inc. FL Cert 6834
6904 Parke East Blvd, Tampa FL 33610
Date: January 4, 2022



6904 Parke East Blvd
Tampa, FL 33610

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITTEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE
Design valid for use only with Mitek connectors. This design is based only upon parameters shown, and is for an individual building component, not
a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall
building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing
is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the
fabrication, erection and bracing of trusses and truss systems, see
ANSI/APA Quality Criteria, DSB-89 and BCS Building Component
Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

Job	2904837	Truss	A03	Hip	Qty	1	Ply	1	Job Reference (optional)	T26407395
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Builders FirstSource (Groveand, FL), Groveand, FL - 34796.
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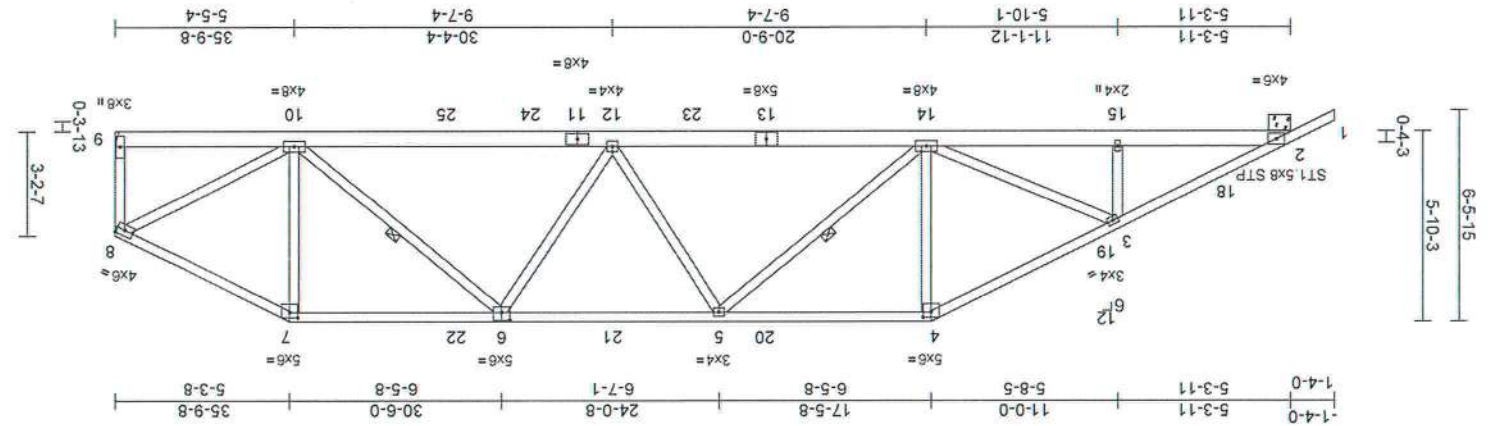


Plate Offsets (X, Y): [4:0-3-0-0-2-0], [6:0-3-0-0-3-0], [7:0-3-0-0-2-0]
 Scale = 1/8" = 1'

Loading	Spacing	Code	FBC2020/FP12014	Matrix-AS	DEFLL	Wind(LL)	Horz(CT)	Vert(CT)	Vert(LL)	in (loc)	l/dell	L/d	PLATES	GRIP	Weight: 224 lb	FT = 20%
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.42	-0.18	12-14	>999	360	360	360	360	MT20	244/190		
TCDL	10.0	Lumber DOL	1.25	BC	0.63	-0.34	12-14	>999	240	240	240	240				
BCLL	0.0*	Rep Stress Incr	YES	WB	0.56	0.08	9	n/a	n/a	n/a	n/a	n/a				
BCDL	10.0															

LUMBER	TOP CHORD	2x4 SP No.2
WEBS	2x4 SP No.3	
BRACING	Structural wood sheathing directly applied.	
TOP CHORD	except end verticals.	
BOT CHORD	Rigid ceiling directly applied.	
WEBS	1 Row at midpt 5'-11, 6'-10	
REACTIONS	(lb/size) 2=1507/0-8-0, 9=1424/ Mechanical	
FORCES	(lb) - Maximum Compression/Maximum	
TOP CHORD	1-2=0/36 2-3=3055/1287, 3-4=2537/1064,	
WEBS	4-5=2232/1030, 5-7=2531/1070,	
BOT CHORD	7-8=1544/669, 8-9=1495/643	
WEBS	12-14=1160/2561, 10-12=1026/2257,	
TOP CHORD	12-15=1221/2707, 14-15=1221/2707,	
WEBS	3-15=0/208, 3-14=558/405, 4-14=191/816,	
WEBS	7-10=73/428, 8-10=568/1476,	
WEBS	5-12=170/299, 5-14=528/389,	
WEBS	6-12=179/553, 6-10=1236/639	

- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=108mph; TCDD=4.2psf; BCDD=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2E) -1-4-0 to 2-2-15, Interior (1) 2-2-15 to 5-11-4, Exterior (2R) 5-11-4 to 15-0-12, Interior (1) 16-0-12 to 25-5-4, Exterior (2R) 25-5-4 to 32-0-13, Exterior (2E) 32-0-13 to 35-7-12 zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- NOTES
 1) Unbalanced roof live loads have been considered for this design.
 2) Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=108mph; TCDD=4.2psf; BCDD=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2E) -1-4-0 to 2-2-15, Interior (1) 2-2-15 to 5-11-4, Exterior (2R) 5-11-4 to 15-0-12, Interior (1) 16-0-12 to 25-5-4, Exterior (2R) 25-5-4 to 32-0-13, Exterior (2E) 32-0-13 to 35-7-12 zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This item has been electronically signed and sealed by O'Regan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

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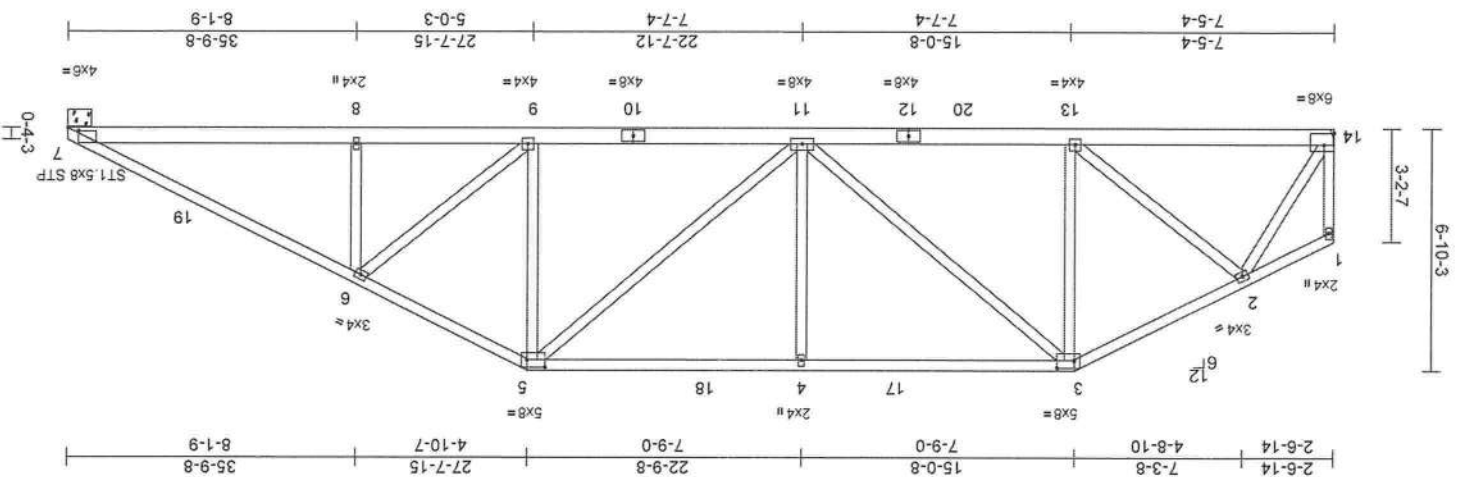
Date: January 4, 2022
 Philip J. O'Regan PE No. 58126
 Mitek USA, Inc. FL Cert 8634
 6904 Parke East Blvd, Tampa FL 33610

Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
2904837	A04	Hip	1	1	T26407396

Builders FirstSource (Groveand, FL), Groveand, FL - 34736.

Run: 8:43 S Oct 11 2021 Print: 8:43 S Oct 11 2021 Mittek Industries, Inc. Wed Dec 29 18:46:49
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Page: 1



Scale = 1/62.7

Plate Offsets (X, Y): [3:0-6-0-0-2-8], [5:0-6-0-0-2-8], [7:0-3-8-0-1-1], [14:Edge,0-4-0]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/def	L/d	PLATES	GRIP	244/190	Weight: 230 lb	FT = 20%
TCLL (roof)	20.0	Lumber DOL	1.25	TC	0.72	-0.15	9-11	>999	360	MT20				
TCDL	10.0	Lumber DOL	1.25	BC	0.79	-0.28	9-11	>999	240					
BCLL	0.0*	Rep Stress Incr	YES	WB	0.88	0.07	7	n/a	n/a					
BCDL	10.0	Code	10.0	Matrix-AS	Wind(LL)	0.17	8-16	>999	240					

LUMBER

2x4 SP No.2

2x6 SP No.2

2x4 SP No.3

BRACING

Structural wood sheathing directly applied.

except end verticals.

Rigid ceiling directly applied.

(lb/size) 7=1426/0-8-0, 14=1426/

Mechanical

Max Horiz 14=-248 (LC 6)

Max Uplift 7=-653 (LC 11), 14=-586 (LC 10)

Max Grav 7=1551 (LC 2), 14=1567 (LC 2)

FORCES

(lb) - Maximum Compression/Maximum

Tension

1-2=-115/110, 2-3=-167/2780,

3-4=-2178/1052, 4-5=-2178/1052,

5-6=-2335/1051, 6-7=-291/1195,

1-14=-95/88

13-14=-332/853, 11-13=-475/1449,

9-11=-647/2044, 8-9=-932/2539,

7-8=-932/2539

2-13=-293/796, 3-13=-284/269,

3-11=-475/988, 4-11=-528/461,

5-11=-248/317, 5-9=-200/639, 6-9=-664/453,

6-8=-193/317, 2-14=-1612/693

NOTES

1) Unbalanced roof live loads have been considered for this design.

- 2) Wind: ASCE 7-16; Vult=140mph (3-second gust)
Vasd=108mph; TCDL=4.2psf; BCDL=5.0psf; h=25ft;
Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior
zone and C-C Exterior(2E) 5-10-4 to 9-5-3, Exterior(2R)
(2R) 23-5-4 to 33-4-7, Interior (1) 33-4-7 to 37-1-1,
Exterior(2E) 37-1-1 to 41-6-0 zone; end vertical left and
right exposed; C-C for members and forces & MWFRS
for reactions shown; Lumber DOL=1.60 plate grip
DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20 psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 7) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 653 lb uplift at joint 7 and 586 lb uplift at joint 14.
- 9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard

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Philip J. O'Regan PE No.58126
Mittek USA, Inc. FL Cert 6834
8904 Parke East Blvd, Tampa FL 33610
Date:

January 4, 2022

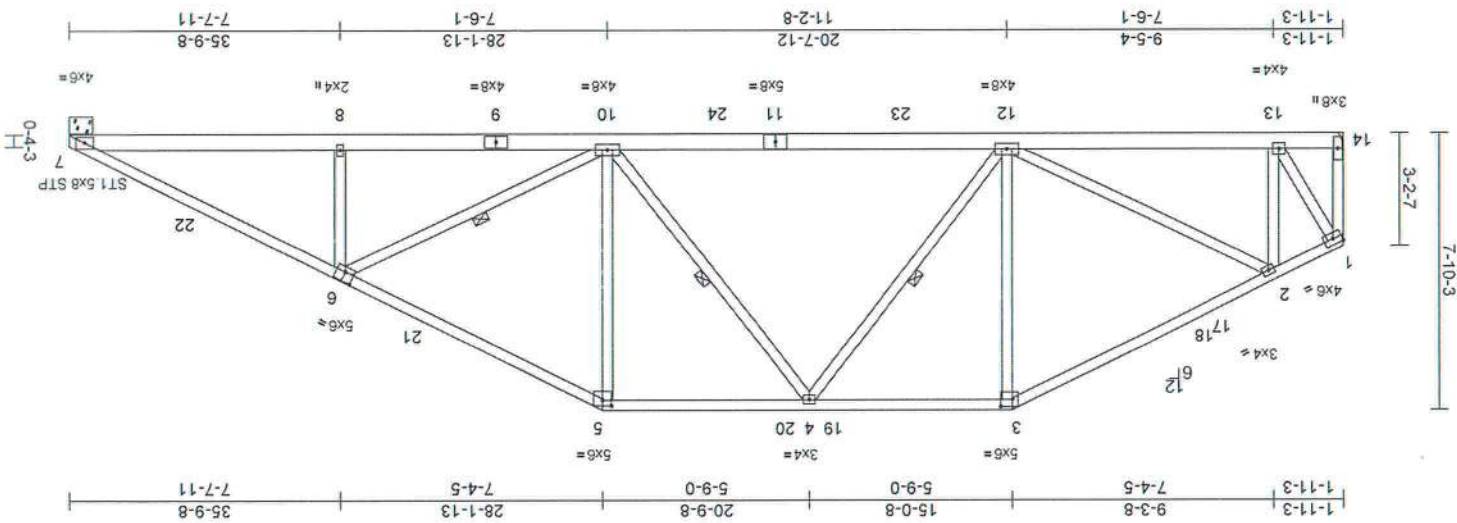
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITTEK REFERENCE PAGE MTL-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with Mittek connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability, erection and bracing of trusses and truss systems, see **ANSI/TPI Quality Criteria, DSB-89 and BCS Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

6904 Parke East Blvd
Tampa, FL 33610
Mittek

Job	2904837	Truss	A05	Hip	1	Qty	1	Ply	1	Job Reference (optional)	T26407397
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Builders FirstSource (Groveand, FL), Groveand, FL - 34736.

Run: 8:43 S Oct 11 2021 Print: 8:430 S Oct 11 2021 Mitek Industries, Inc. Wed Dec 29 18:45:50
ID:RWw19ix0xMRIMr2iv0jxJz4yRzP-RIC7PSB70h4q3NSgPqNLw3uITXbGKWVCDoJ7J4zJC17



Scale = 1/62.8
Plate Offsets (X, Y): [3:0-4:0-0-2-8], [5:0-3:0-0-2-0], [6:0-3:0-0-3-4]

Loading	Spacing	Code	2-0-0	CSI	DEFL	Wind(LL)	Horz(CT)	Vert(CT)	Weight: 232 lb	FT = 20%
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.58	-0.22	0.07	-0.39	MT20	
TOP CHORD	2x4 SP No.2					in (loc)		10-12	PLATES	
BOT CHORD	2x6 SP No.2							>99		
WEBS	2x4 SP No.3							>99	GRIP	244/190
BRACING								>99		
TOP CHORD	Structural wood sheathing directly applied, except end verticals.							>99		
BOT CHORD	WEBS							>99		
REACTIONS	(lb/size) 7=1426/0-8-0, 14=1426/1 Row at midpt 4-12, 4-10, 6-10							>99		
FORCES	(lb) - Maximum Compression/Maximum Tension							>99		
TOP CHORD	1-2=-815/418, 2-3=-1774/818, 3-4=-1517/819, 4-5=-1893/966, 5-7=-2924/1219, 1-14=-1521/665							>99		
BOT CHORD	13-14=-102/257, 12-13=-312/771, 10-12=-589/1812, 8-10=-973/2568, 7-8=-973/2575							>99		
WEBS	2-13=-1100/597, 2-12=-285/842, 3-12=-112/482, 4-12=-583/376, 4-10=-108/263, 5-10=-137/637, 6-10=-774/577, 6-8=0/314, 1-13=-648/1418							>99		
NOTES	1) Unbalanced roof live loads have been considered for this design.							>99		

- 2) Wind: ASCE 7-16; Vult=140mph (3-second gust)
Vasd=108mph; TCCL=4.2psf; BCDL=5.0psf; h=25ft.
Cat II; Exp C; Enclosed; MWVFRS (envelope) exterior zone and C-C Exterior(2E) 5-10-4 to 9-5-3, Interior (1) 9-5-3 to 9-11-4, Exterior(2R) 9-11-4 to 20-0-12, Interior (1) 20-0-12 to 21-5-4, Exterior(2R) 21-5-4 to 31-6-12, Interior (1) 31-6-12 to 37-11-1, Exterior(2E) 37-11-1 to 41-6-0 zone; end vertical left and right exposed; C-C for members and forces & MWVFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 581 lb uplift at joint 14 and 648 lb uplift at joint 7.
9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
LOAD CASE(s) Standard

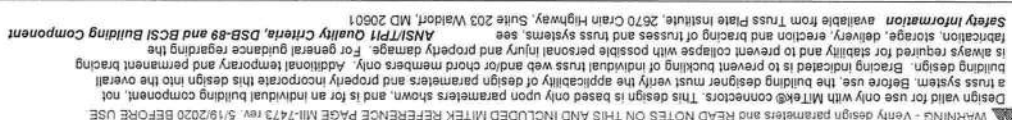
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Philip J. O'Regan PE No.58126
Mitek USA, Inc. FL Cert 6634
6904 Parke East Blvd, Tampa FL 33610
Date: January 4, 2022



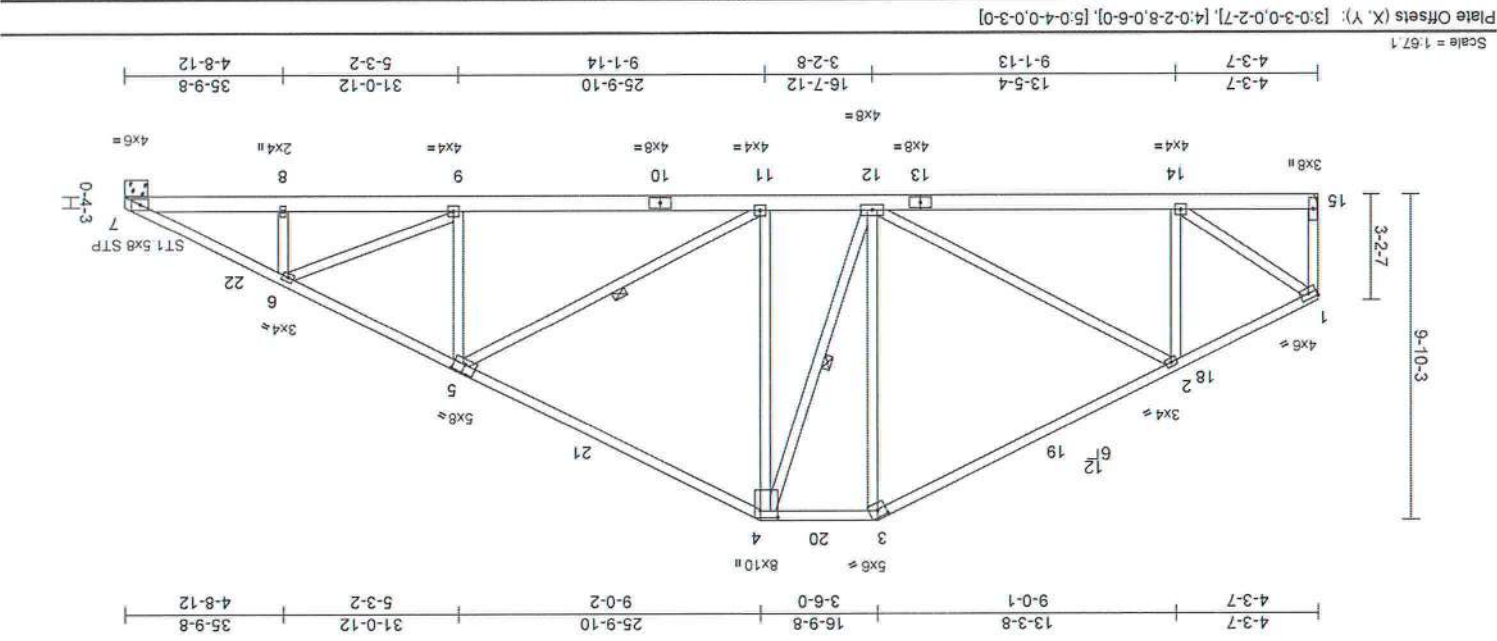
6904 Parke East Blvd,
Tampa, FL 33610

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MILL-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with Mitek connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see
ANSI/TPI Quality Criteria, DSB-89 and BCSI Building Component
Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

Page: 1

Job	2904837	Truss	A07	Hip	Qty	1	Ply	1	Job Reference (optional)	T26407399
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Loadings	Spacing	Code	FBC2020/TP1014	Matrix-AS	DEFLL	Wind(LL)	Weight: 249 lb	FT = 20%
TCLL (roof)	20.0	Plate Gnp DOL	1.25	TC	0.90	0.57	MT20	GRIP
TCDL	10.0	Lumber DOL	1.25	BC	0.57	0.57	PLATES	
BCLL	0.0*	Rep Stress Incr	YES	WB	0.53	0.06	n/a	
BCDL	10.0					0.15	n/a	

LUMBER	TOP CHORD	BOT CHORD	WEBS
2x4 SP No.2	2x6 SP No.2	2x4 SP No.3	

BRACING	TOP CHORD	BOT CHORD	WEBS
Structural wood sheathing directly applied, except end verticals.	Rigid ceiling directly applied.	1 Row at midpt 4-12, 5-11	
REACTIONS	(lb/size) 7=1426/0-8-0, 15=1426/		
Max Horiz 15=-305 (LC 6)			
Max Uplift 7=-635 (LC 11), 15=-569 (LC 10)			
FORCES	(lb) - Maximum Compression/Maximum Tension		
1-2=-1283/627, 2-3=-1564/802			
3-4=-1287/821, 4-6=-2456/1087			
6-7=-2858/1258, 1-15=-1402/635			
14-15=-1413/310, 12-14=-497/1143			
11-12=-360/1366, 9-11=-791/2147			
8-9=-1036/2523, 7-8=-1036/2523			
2-14=-647/411, 2-12=-102/264			
3-12=-174/372, 4-12=-383/271			
4-11=-251/561, 1-14=-566/1391			
5-11=-904/649, 5-9=-34/455, 6-9=-403/297			
6-8=-5/174			

NOTES	1) Unbalanced roof live loads have been considered for this design.	2) Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf, BCDL=5.0psf, h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 5-10-4 to 9-5-3, Interior (1) 9-5-3 to 13-11-4, Exterior(2R) 13-11-4 to 27-6-12, Interior (1) 27-6-12 to 37-11-1, Exterior(2E) 37-11-1 to 41-6-0 zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
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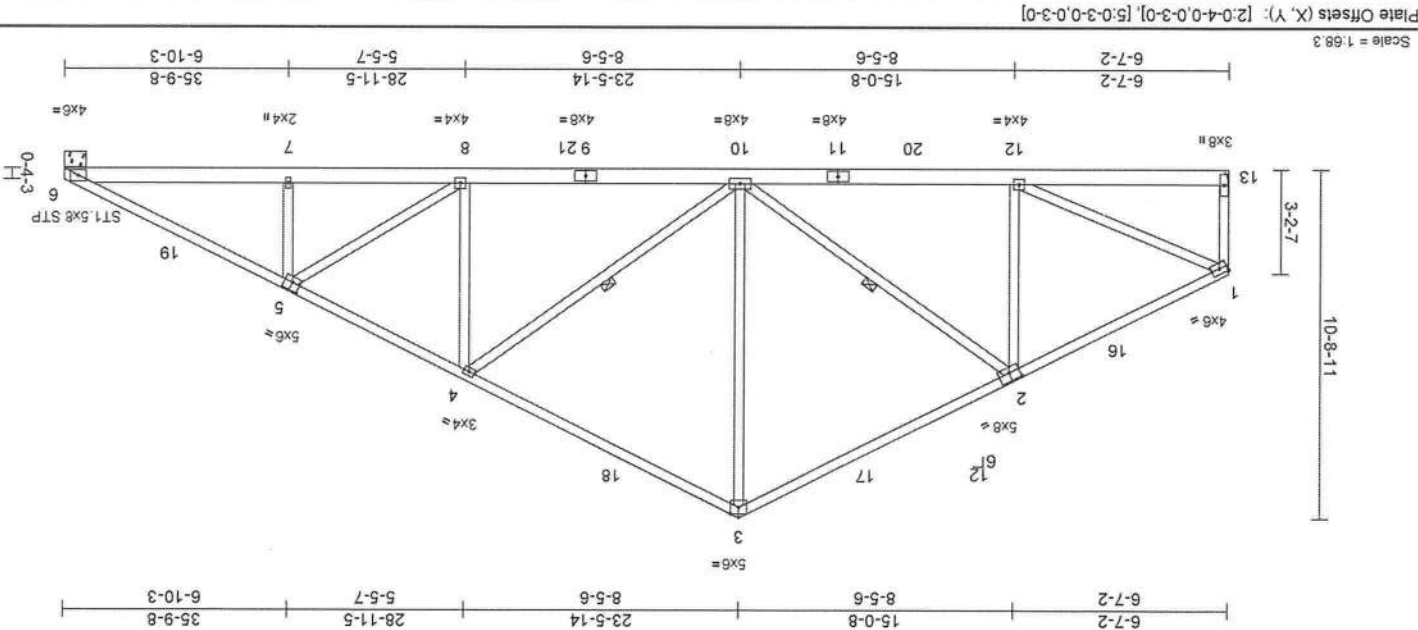
Philip J. O'Regan PE No.58126
Mitek USA, Inc. FL Cert 6634
8904 Parke East Blvd, Tampa FL 33610
Date: January 4, 2022

Job	2904837	Truss	A08	Common	Truss Type	Qty	2	Ply	1	Job Reference (optional)	T26407400
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Builders FirstSource (Groveand, FL), Groveand, FL - 34736.

Run: 8:43 S Oct 11 2021 Print 8:430 S Oct 11 2021 Mittek Industries, Inc. Wed Dec 29 18:46:51
ID:S_u1dQb1twqWYK9SEaz4mVQ-RIC7P5B70Hq3NSGpnLw3uITXbGKW/CDo17J4ZC7I

Page: 1



Loading	Spacing	Code	Matrix-AS	DEFLL	in	(loc)	l/defl	L/d	PLATES	GRIP	Weight: 232 lb	FT = 20%
TCLL (roof)	20.0	Plate Grip DOL	TC	0.74	-0.15	8-10	>999	360	MT20	244/190		
TCDL	10.0	Lumber DOL	BC	0.71	-0.28	8-10	>999	240				
BCLL	0.0 *	Rep Stress Incr	WB	0.60	0.07	6	n/a	n/a				
BCDL	10.0											

LUMBER	TOP CHORD	2x4 SP No.2	2x4 SP No.3	WEBS	2x4 SP No.3
BRACING	TOP CHORD	Structural wood sheathing directly applied.			
REACTIONS	(lb/size)	6=1426/0-8-0, 13=1426/			
FORCES	(lb) - Maximum Compression/Maximum	Max Horiz 13=-321 (LC 6)	Max Uplift 6=-629 (LC 11), 13=-562 (LC 10)	Max Grav 6=1554 (LC 2), 13=1569 (LC 2)	
TOP CHORD	1-3=-1666/822, 3-4=-1622/819,				
BOT CHORD	12-13=-150/309, 10-12=-533/1489,				
WEBS	8-10=-683/2137, 7-8=-926/2619,				
	6-7=-927/2626				
	4-10=-962/636, 4-8=-116/575, 5-8=-572/383,				
	5-7=-16/275, 2-10=-212/292, 2-12=-415/294				

- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 6-6-9 to 10-1-8, Interior (1) 10-1-8 to 17-10-6, Exterior(2R) 17-10-6 to 25-0-4, Interior (1) 25-0-4 to 38-7-6, Exterior(2E) 38-7-6 to 42-2-5 zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- NOTES
- 1) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 2) This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - 3) Refer to girder(s) for truss connections.
 - 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 562 lb uplift at joint 13 and 629 lb uplift at joint 6.
 - 5) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- LOAD CASE(S) Standard

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Philip J. O'Regan PE No.58126
Mittek USA, Inc. FL Cert 8634
8904 Parke East Blvd. Tampa FL 33610

Date: January 4, 2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITTEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE
Design valid for use only with Mittek connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see
ANSI/TPI 1 Quality Criteria, DSB-89 and BCSI Building Component
Safety information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



8904 Parke East Blvd
Tampa, FL 33610

Job	Truss	A09A	Root Special	Qty	1	Job Reference (optional)	T26407402
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Builders FirstSource (Groveand, FL), Groveand, FL - 34735, Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 MITek Industries, Inc. Wed Dec 29 18:46:51 ID:ewrtm7bBf8n820USzmtrf1ceygnsp-RIC7Psb70h3NSgPgnLbwJuITXbGKWwCDoi7J4zJC7f

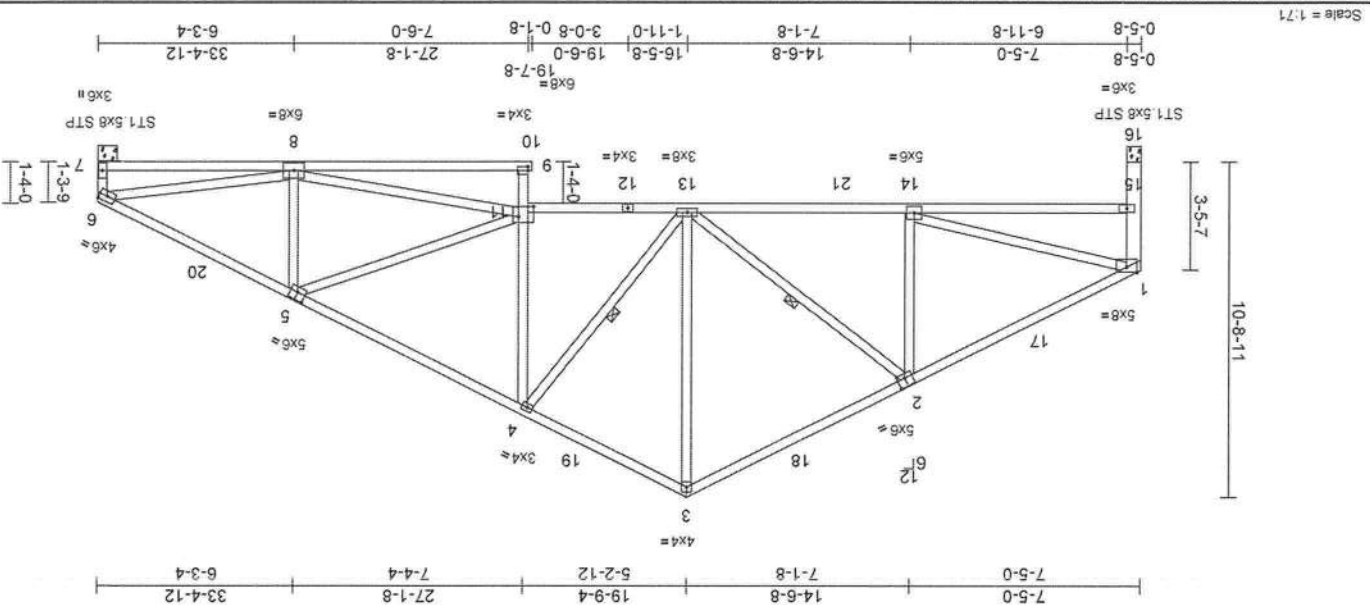


Plate Offsets (X, Y): [2:0-3-0-0-3-4], [5:0-3-0-0-3-4], [9:Edge:0-1-8], [11:0-5-12-0-4-0]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/def	L/D	PLATES	GRIP	244/190
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.66	-0.13	13-14	>999	360	MT20		
TCDL	10.0	Lumber DOL	1.25	BC	0.67	-0.27	8-9	>999	240			
BCLL	0.0*	Rep Stress Incr	YES	WB	0.72	0.09	7	n/a	n/a			
BCDL	10.0	Code	FBC2020/TP12014	Matrix-MS	Wind(LL)	0.13	10	>999	240	Weight: 218 lb	FT = 20%	

2) Wind: ASCE 7-16; Vult=140mph (3-second gust)
Vasd=108mph; TCDL=4.2psf; BCDL=5.0psf; h=25ft;
Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior
Zone and C-C Exterior(2E) 0-2-12 to 3-6-13, Interior (1)
3-6-13 to 11-2-7, Exterior(2R) 11-2-7 to 17-10-9, Interior
(1) 17-10-9 to 29-10-15, Exterior(2E) 29-10-15 to 33-3-0
members and forces & MWFRS for reactions shown;
Lumber DOL=1.60 plate grip DOL=1.60
Building Designer / Project engineer responsible for
verifying applied roof live load shown covers rain loading
requirements specific to the use of this truss component.

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except 4-9:2x4 SP No.3
WEBS 2x4 SP No.3
OTHERS 2x6 SP No.2
BRACING
TOP CHORD Structural wood sheathing directly applied or
3-5-6 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 7-10-14 oc
bracing. Except:
10-0-0 oc bracing: 9-11
1 Row at midpt 4-13, 2-13
REACTIONS
(lb/size) 7=132/4-0-7-4, 16=132/3-0-5-8
Max Horiz 16=-338 (LC 8)
Max Uplift 7=-569 (LC 11), 16=-525 (LC 10)
Max Grav 7=1417 (LC 2), 16=1432 (LC 2)
FORCES
(lb) - Maximum Compression/Maximum
Tension
1-3=-1798/784, 3-4=-1516/802,
4-6=-2124/929, 6-7=-1321/589,
15-16=-1432/582, 1-15=-1319/612
14-15=-338/510, 13-14=-552/1620,
11-13=-515/1830, 9-11=0/156,
7-8=-99/144
WEBS
3-13=-399/1031
2-14=-199/226, 2-13=-387/361,
1-14=-556/1488, 6-8=-565/1679,
5-11=-672/219, 5-8=-456/314,
4-13=-842/560, 8-11=-671/1695,
7-8=-99/144

TOP CHORD
1-3=-1798/784, 3-4=-1516/802,
4-6=-2124/929, 6-7=-1321/589,
15-16=-1432/582, 1-15=-1319/612
14-15=-338/510, 13-14=-552/1620,
11-13=-515/1830, 9-11=0/156,
7-8=-99/144
BOT CHORD
3-13=-399/1031
2-14=-199/226, 2-13=-387/361,
1-14=-556/1488, 6-8=-565/1679,
5-11=-672/219, 5-8=-456/314,
4-13=-842/560, 8-11=-671/1695,
7-8=-99/144
WEBS
3-13=-399/1031
2-14=-199/226, 2-13=-387/361,
1-14=-556/1488, 6-8=-565/1679,
5-11=-672/219, 5-8=-456/314,
4-13=-842/560, 8-11=-671/1695,
7-8=-99/144

NOTES
1) Unbalanced roof live loads have been considered for this design.

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Philip J. O'Regan PE No.58126
MITek USA, Inc. FL Cert 6634
6904 Parke East Blvd, Tampa FL 33610
Date: January 4, 2022

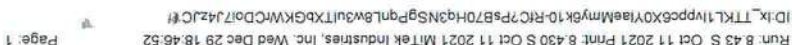
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NOTES

- (3) Wind: ASCE 7 -16; V_W=114mph (3-second gust)
V_W=108mph; TCDL=4.2psf; BCDL=0.5psf; h=25ft;
Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior
DOL=1.60 plate req DOL=1.60
zone; and vertical left and right exposed; Lumber
- (4) Building Designer / Project engineer responsible for
verifying applied roof live load shown covers rain loading
requirements specific to the use of this truss component.
- (5) Provide adequate drainage to prevent water ponding.
- (6) This truss has been designed for a 10.0 psf bottom
chord live load nonconcurrent with any other live loads.
- (7) * This truss has been designed for a live load of 20.0psf
on the bottom chord in all areas where a rectangle
3'-0"-0'0" tall by 2'-0'-0'0" wide will fit between the bottom
chord and any other members.
- (8) Refer to girder(s) for truss to truss connections.
- (9) Provide mechanical connection (by others) of truss to
bearing plate capable of withstanding 1962 lb uplift at
joint 8 and 1732 lb uplift at joint 2.

Plate Offsets (X, Y): [3:0-6-0,0-2-8], [5:0-4-0,0-3-0], [9:0-1-8,0-3-8]

Scale = 1:65



Job	Truss	A10	Half Hip Girder	Qty	1	Ply	2	Job Reference (optional)	T26407403
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Job	Truss	Truss Type	Qty	2	Job Reference (optional)
2904837	A10	Half Hip Girder	1	Ply	T26407403

Builders FirstSource (GroveLand, FL) - 34736.

Run: 8:43 S Oct 11 2021 Print: 8:430 S Oct 11 2021 Mitek Industries, Inc. Wed Dec 29 18:46:52

ID: ix_TTRKLL1vpp6X0Yiaek10-RIC7P5B70Hq3NSgFqnlBw3uITXbGKwVwCD07J4zJC71

(10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 126 lb down and 154 lb up at 7'-0"-0, 126 lb down and 154 lb up at 9'-0"-12, 126 lb down and 154 lb up at 11'-0"-12, 126 lb down and 154 lb up at 13'-0"-12, 126 lb down and 154 lb up at 15'-0"-12, 126 lb down and 154 lb up at 17'-0"-12, 126 lb down and 154 lb up at 19'-0"-12, 126 lb down and 154 lb up at 21'-0"-12, 126 lb down and 154 lb up at 23'-0"-12, 126 lb down and 154 lb up at 25'-0"-12, 126 lb down and 154 lb up at 27'-0"-12, 126 lb down and 154 lb up at 29'-0"-12, 126 lb down and 154 lb up at 31'-0"-12, and 126 lb down and 154 lb up at 33'-0"-12, and 126 lb down and 154 lb up at 35'-0"-12, and 145 lb down and 160 lb up at 35'-0"-12 on top chord, and 31 lb down and 232 lb up at 7'-0"-0, 85 lb down and 10 lb up at 9'-0"-12, 85 lb down and 10 lb up at 11'-0"-12, 85 lb down and 10 lb up at 13'-0"-12, 85 lb down and 10 lb up at 15'-0"-12, 85 lb down and 10 lb up at 17'-0"-12, 85 lb down and 10 lb up at 19'-0"-12, 85 lb down and 10 lb up at 21'-0"-12, 85 lb down and 10 lb up at 23'-0"-12, 85 lb down and 10 lb up at 25'-0"-12, 85 lb down and 10 lb up at 27'-0"-12, 85 lb down and 10 lb up at 29'-0"-12, 85 lb down and 10 lb up at 31'-0"-12, and 97 lb down and 7 lb up at 35'-0"-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.25,

Uniform Loads (lb/ft)

Plate Increase=1.25

Vert: 1-3=-60, 3-7=-60, 2-8=-20

Concentrated Loads (lb)

Vert: 3=-126 (F), 14=-308 (F), 5=-126 (F), 11=-63 (F), 17=-126 (F), 18=-126 (F), 19=-126 (F), 20=-126 (F), 21=-126 (F), 22=-126 (F), 23=-126 (F), 24=-126 (F), 25=-126 (F), 26=-126 (F), 27=-126 (F), 28=-126 (F), 29=-145 (F), 30=-63 (F), 31=-63 (F), 32=-63 (F), 33=-63 (F), 34=-63 (F), 35=-63 (F), 36=-63 (F), 37=-63 (F), 38=-63 (F), 39=-63 (F), 40=-63 (F), 41=-63 (F), 42=-70 (F)

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MIII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MITEK connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse of trusses and truss systems. See **ANSI/TPI Quality Criteria, DSB-89 and BCSI Building Component** fabrication, storage, delivery, erection and bracing of trusses and truss systems. For general guidance regarding the **ANSI/TPI Quality Criteria, DSB-89 and BCSI Building Component** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

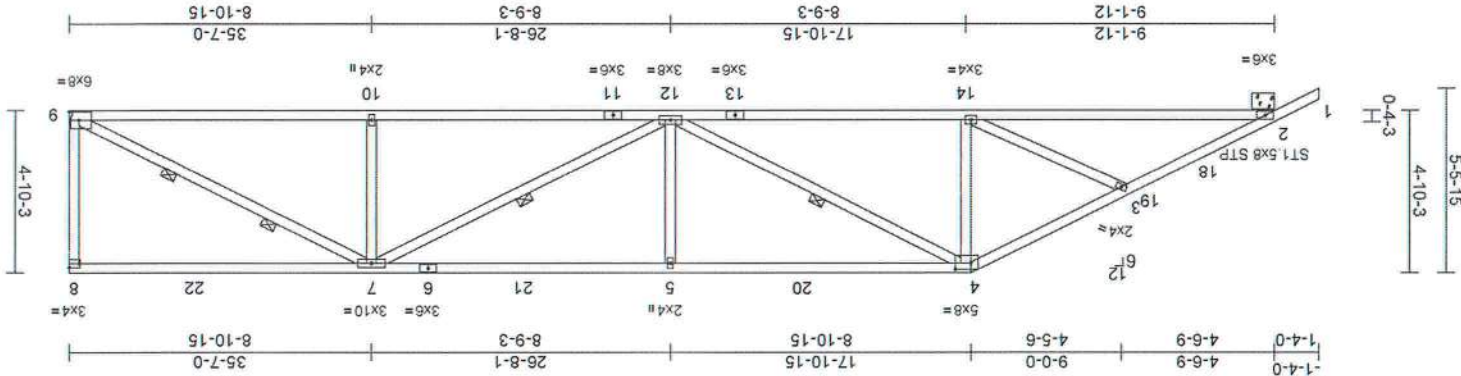


6904 Parke East Blvd.
Tampa, FL 36610

Job	2904837	Truss	A11	Half Hip	Truss Type	Qty	1	Ply	1	Job Reference (optional)	T26407404
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Builders FirstSource (Groveland, FL) - 34736.

Run: 8:43 S Oct 11 2021 Print: 8:43 S Oct 11 2021 Mittek Industries, Inc. Wed Dec 29 18:46:53 ID:h7hVb5_GpCUITf4C80030xy6k0B-RfC7P5B70Hq3NSgPqnl8wTXbGKWj42kC7f



Scale = 1/64

Plate Offsets (X, Y): [4:0-5-8,0-2-4], [8:Edge,0-1-8]

Loading	Spacing	Code	Rep Stress Incr	Yes	Matrix-AS	DEFL	Wind(LL)	Horz(CT)	Vert(CT)	Vert(LL)	in (loc)	l/defl	L/D	PLATES	GRIP	Weight: 185 lb	FT = 20%
TCDL (roof)	20.0	Plate Gnp DOL	1.25	TC	0.85	0.85	0.19	10-12	>999	360	240	n/a	240	MT20	244/190		
TCDL	10.0	Lumber DOL	1.25	BC	0.89	-0.43	10-12	>986	240								
BCLL	0.0*	Rep Stress Incr	YES	WB	0.93	0.13	9	n/a	240								
BCDL	10.0					0.29	10-12	>999	240								

LUMBER	TOP CHORD	2x4 SP No.2	2x4 SP No.3	WEBS	BRACING	TOP CHORD	Structural wood sheathing directly applied.	except end verticals.	TOP CHORD	1 Row at midpt	4-12, 7-12	WEBS	2 Rows at 1/3 pts	7-9	WEBS	(lb/size)	2=1499/0-8-0, 9=1416/ Mechanical	RECTIONS	Max Horiz	2=299 (LC 9)	Max Uplift	2=731 (LC 10), 9=736 (LC 7)	FORCES	(lb) - Maximum Compression/Maximum	Tension	TOP CHORD	1-2=0/36, 2-3=2720/1317, 3-4=2451/1157, 4-5=2864/1422, 5-7=2864/1422, 7-8=1461/133, 8-9=236/205, 10-12=1178/2167, 9-10=1178/2167, 4-14=34/433, 4-12=567/796, 5-12=554/485, 7-12=550/786, 7-10=0/372, 7-9=2376/1234, 3-14=287/287	NOTES	1) Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -1-4-0 to 2-2-11, Interior (1) 2-2-11 to 3-11-10, Exterior(2E) 3-11-10 to 14-0-6, Interior (1) 14-0-6 to 3-11-10-9, Exterior(2E) 3-11-10-9 to 35-5-4 zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.50 plate gnp DOL=1.50	2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.	3) Provide adequate drainage to prevent water ponding.
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This item has been electronically signed and sealed by O'Regan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Philip J. O'Regan PE No.58126
Mittek USA, Inc. FL Cont 8634
8904 Parke East Blvd. Tampa FL 33610
Date: January 4, 2022



8904 Parke East Blvd
Tampa, FL 33610

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITTEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with Mittek connectors. This design is based upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI Quality Criteria, DSB-89 and BCSI Building Component** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

Job	2904837	Truss	A12	Truss Type	Half Hip	Qty	1	Ply	1	Job Reference (optional)	T26407405
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Builders FirstSource (Groveand, FL), Groveand, FL - 34736.

Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 Mitek Industries, Inc. Wed Dec 29 18:46:53
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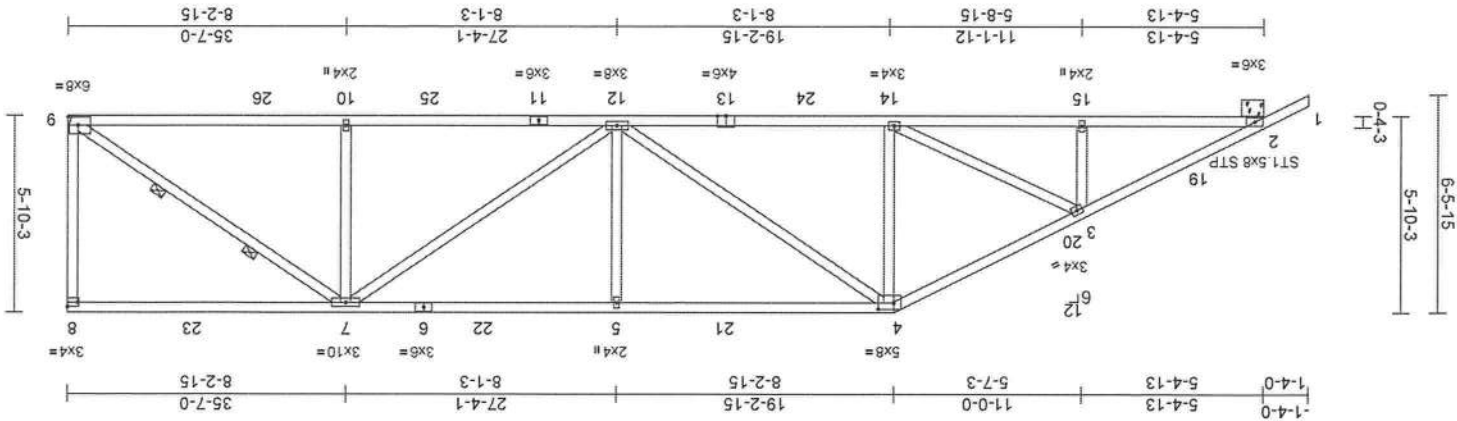


Plate Offsets (X, Y): [4:0-5-8-0-2-4], [8:Edge,0-1-8]
Scale = 1/64.1

Loading	Spacing	Code	Matrix-AS	Wind(LL)	DEFL	in	(loc)	l/defl	L/D	PLATES	GRIP	Weight: 196 lb FT = 20%
TCLL (roof)	20.0	Plate Grp DOL	1.25	TC	0.74	-0.24	12-14	>999	360	MT20	244/190	
TCDL	10.0	Lumber DOL	1.25	BC	0.83	-0.45	12-14	>935	240			
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.93	0.13	9	n/a	n/a			
BCDL	10.0											

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, except end verticals.
BOT CHORD Rigid ceiling directly applied.

REACTIONS

WEBS 2 Rows at 1/3 pts 7-9
(lb/size) 2=1499/0-8-0, 9=1416/ Mechanical

FORCES

(lb) - Maximum Compression/Maximum Tension
Max Horiz 2=361 (LC 9)
Max Uplift 2=736 (LC 10), 9=732 (LC 7)
Max Grav 2=1616 (LC 2), 9=1576 (LC 2)

TOP CHORD 1-2=0/36, 2-3=-2982/1289, 3-4=-2502/1105, 4-5=-2564/1148, 5-7=-2564/1148, 7-8=-151/149, 8-9=-215/190

WEBS 9-10=-931/1881, 10-11=-1043/2197, 11-12=-931/1881, 12-13=-1231/2634, 13-14=-1231/2634, 14-15=-1231/2634, 15-16=-1231/2634, 16-17=-1231/2634, 17-18=-1231/2634, 18-19=-1231/2634, 19-20=-1231/2634, 20-21=-1231/2634, 21-22=-1231/2634, 22-23=-1231/2634, 23-24=-1231/2634, 24-25=-1231/2634, 25-26=-1231/2634, 26-27=-1231/2634, 27-28=-1231/2634, 28-29=-1231/2634, 29-30=-1231/2634, 30-31=-1231/2634, 31-32=-1231/2634, 32-33=-1231/2634, 33-34=-1231/2634, 34-35=-1231/2634, 35-36=-1231/2634, 36-37=-1231/2634, 37-38=-1231/2634, 38-39=-1231/2634, 39-40=-1231/2634, 40-41=-1231/2634, 41-42=-1231/2634, 42-43=-1231/2634, 43-44=-1231/2634, 44-45=-1231/2634, 45-46=-1231/2634, 46-47=-1231/2634, 47-48=-1231/2634, 48-49=-1231/2634, 49-50=-1231/2634, 50-51=-1231/2634, 51-52=-1231/2634, 52-53=-1231/2634, 53-54=-1231/2634, 54-55=-1231/2634, 55-56=-1231/2634, 56-57=-1231/2634, 57-58=-1231/2634, 58-59=-1231/2634, 59-60=-1231/2634, 60-61=-1231/2634, 61-62=-1231/2634, 62-63=-1231/2634, 63-64=-1231/2634, 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317-318=-1231/2634, 318-319=-

Job	2904837	Truss	A13	Half Hip	Qty	1	Ply	1	Job Reference (optional)	T26407406
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Builders FirstSource (Groveand, FL), Groveand, FL - 34795.

Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 Mitek Industries, Inc. Wed Dec 29 18:48:53
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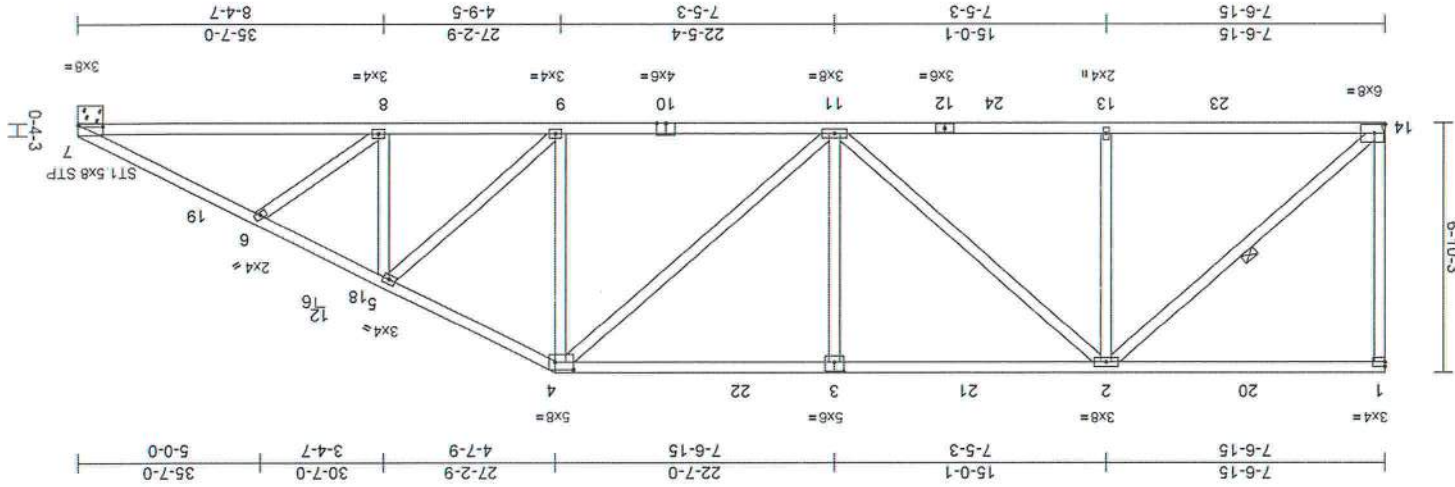


Plate Offsets (X, Y): [3:0-3-0-0-3-0], [4:0-6-0-0-2-8], [7:0-8-0-0-0-10]
Scale = 1/60.7

Loadings	Spacing	Code	Rep Stress Incr	Matrix-AS	DEFLL	Wind(LL)	Weight: 209 lb	FT = 20%
TCLL (roof)	20.0	Plate Grp DOL	1.25	TC	0.69	0.91	MT20	GRIP
TCDL	10.0	Lumber DOL	1.25	BC	0.91	0.39	MT20	GRIP
BCLL	0.0*	Rep Stress Incr	YES	WB	1.00	0.11	n/a	n/a
BCDL	10.0					0.18	9-11	>999

LUMBER	TOP CHORD	2x4 SP No.2
BRACING	TOP CHORD	2x4 SP No.3
REACTIONS	TOP CHORD	2x4 SP No.3
FORCES	TOP CHORD	2x4 SP No.3
LOAD CASE(S)	TOP CHORD	2x4 SP No.3
Notes	TOP CHORD	2x4 SP No.3

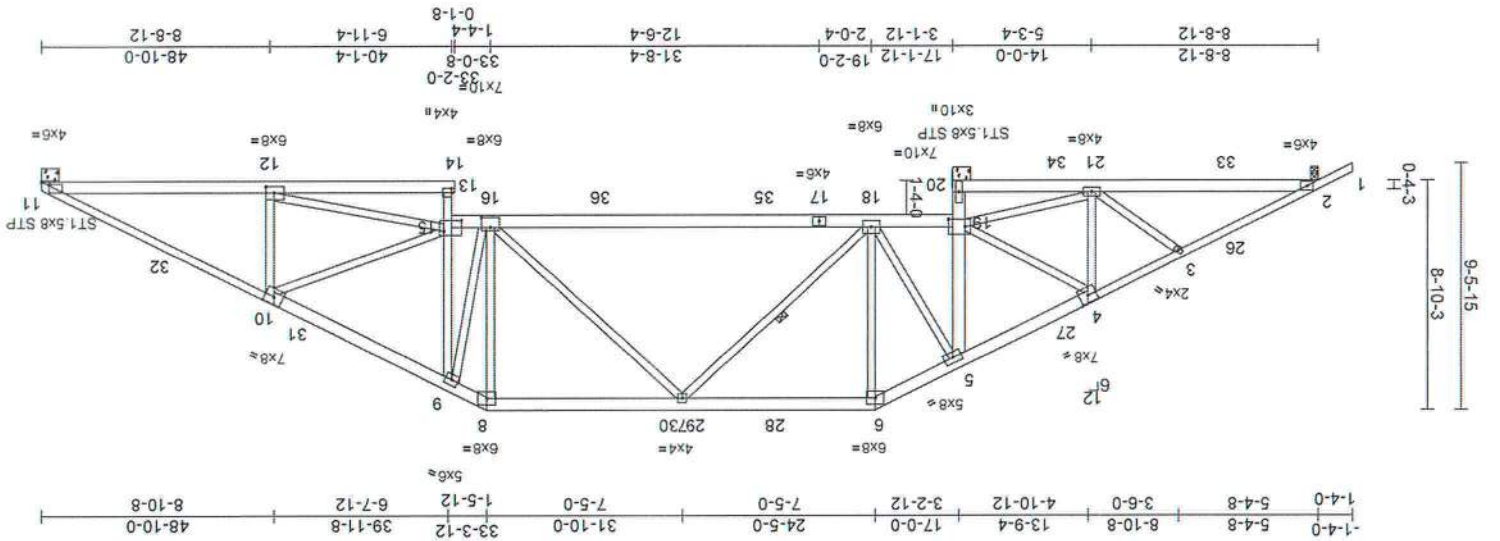
This item has been electronically signed and sealed by Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Philip J. O'Regan PE No.58128
Mitek USA, Inc. FL Cert 8634
8904 Parke East Blvd, Tampa FL 33610
Date: January 4, 2022

Job	Truss Type	Qty	Ply	Job Reference (optional)
2904837	A15 Truss	1	1	T26407408

Builders FirstSource (GroveLand, FL - 34736)

Run: 8:43 S Oct 11 2021 Print: 8:43 S Oct 11 2021 Mittek Industries, Inc. Wed Dec 29 18:46:54
ID: N11782N50bHbzcUjIpsuigyljgC-RtC7PSPB70Hq3NSgPgnLbW3uITXbGKwVCDOJ74zJC7f



Scale = 1:85.4

Plate Offsets (X, Y): [4:0-4-0-0-3-4], [10:0-4-0-0-3-4], [11:0-3-8-0-1-1], [12:0-3-8-0-3-0], [13:0-2-0-2-0-Edge], [15:0-8-0-0-5-0], [16:0-4-0-0-4-8], [19:0-7-8-0-3-8]

Loadings	Spacing	Plate Gnp DOL	Lumber DOL	Rep Stress Incr	Code
TCLL (roof)	20.0	1.25	1.25	NO	10.0
TCDL	10.0				0.0*
BCLL					10.0
BCDL					10.0

LUMBER	2x6 SP No.2	2x6 SP No.2	2x6 SP No.2	2x6 SP No.2	2x4 SP No.3
TOP CHORD	2x6 SP No.2	2x6 SP No.2	2x6 SP No.2	2x6 SP No.2	2x4 SP No.3
BOT CHORD	2x6 SP No.2	2x6 SP No.2	2x6 SP No.2	2x6 SP No.2	2x4 SP No.3
BRACING	2x6 SP No.2	2x6 SP No.2	2x6 SP No.2	2x6 SP No.2	2x4 SP No.3
TOP CHORD	2x6 SP No.2	2x6 SP No.2	2x6 SP No.2	2x6 SP No.2	2x4 SP No.3
BOT CHORD	2x6 SP No.2	2x6 SP No.2	2x6 SP No.2	2x6 SP No.2	2x4 SP No.3
WEBS	2x6 SP No.2	2x6 SP No.2	2x6 SP No.2	2x6 SP No.2	2x4 SP No.3

BRACING	Structural wood sheathing directly applied.	38-8-14, Interior (1) 38-8-14 to 43-11-6, Exterior(2E) 43-11-6 to 48-10-0 zone; porch left exposed.C-C for members and forces & MWFRS for reactions shown.			
TOP CHORD	Rigid ceiling directly applied. Except:				
BOT CHORD	10-0-0 oc bracing: 13-15				
WEBS	1 Row at midpt				
REACTIONS	(lb/size) 2x7/2-0-3-8, 11x12/8-0-8-0,				
	20x2531/0-8-0				
		3)			
		Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.			

FORCES	(lb) - Maximum Compression/Maximum	2-2531/0-8-0	2-2531/0-8-0	2-2531/0-8-0	2-2531/0-8-0
TOP CHORD	2-2531/0-8-0	2-2531/0-8-0	2-2531/0-8-0	2-2531/0-8-0	2-2531/0-8-0
BOT CHORD	2-2531/0-8-0	2-2531/0-8-0	2-2531/0-8-0	2-2531/0-8-0	2-2531/0-8-0
WEBS	2-2531/0-8-0	2-2531/0-8-0	2-2531/0-8-0	2-2531/0-8-0	2-2531/0-8-0
FORCES	(lb) - Maximum Compression/Maximum	2-2531/0-8-0	2-2531/0-8-0	2-2531/0-8-0	2-2531/0-8-0

NOTES	1) Unbalanced roof live loads have been considered for this design.	2) Wind: ASCE 7-16: Vult=140mph (3-second gust)
WEBS	3-21=-279/312	Wind: ASCE 7-16: Vult=140mph (3-second gust)
BOT CHORD	10-15=-440/404, 10-12=-198/213, 9-16=-594/542, 12-15=-850/2024, 7-16=-261/803, 8-16=-183/608, 6-18=-285/284, 7-18=-1484/932, 4-19=-758/1069, 5-18=-936/2057, 4-21=-850/537, 19-21=-347/347, 11-12=-879/2220	Wind: ASCE 7-16: Vult=140mph (3-second gust)
TOP CHORD	15-16=-520/1790, 13-15=0/126, 18-19=-976/917, 16-18=-401/1218, 19-20=-2699/1908, 5-19=-2499/1304, 2-21=-306/317, 20-21=-96/95, 8-9=-1953/938, 9-11=-2538/1152, 5-6=-235/143, 6-7=-172/156, 7-8=-1776/885, 1-2=0/36, 2-3=-167/468, 3-5=-704/1124	Wind: ASCE 7-16: Vult=140mph (3-second gust)
WEBS	1 Row at midpt	Wind: ASCE 7-16: Vult=140mph (3-second gust)
TOP CHORD	Structural wood sheathing directly applied	Wind: ASCE 7-16: Vult=140mph (3-second gust)
BOT CHORD	Rigid ceiling directly applied. Except:	Wind: ASCE 7-16: Vult=140mph (3-second gust)
BRACING	10-0-0 oc bracing	Wind: ASCE 7-16: Vult=140mph (3-second gust)
WEBS	1 Row at midpt	Wind: ASCE 7-16: Vult=140mph (3-second gust)
REACTIONS	(lb/size)	Wind: ASCE 7-16: Vult=140mph (3-second gust)

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITTEK REFERENCE PAGE MII-7473 Rev. 5/19/2020 BEFORE USE

Design valid for use only with Mittek connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANSI/TPI Quality Criteria, DSB-89 and BCSI Building Component

ANSI/TPI Quality Criteria, DSB-89 and BCSI Building Component

6904 Parke East Blvd. Tampa, FL 33610

Mittek

January 4, 2022

Date:

6904 Parke East Blvd. Tampa, FL 33610

Mittek USA, Inc. FL Cert 6634

Philip J. O'Regan PE No.58126

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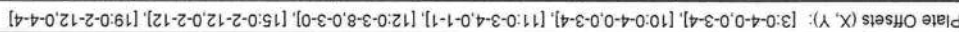
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Page 1NOTES
10-12-11/183

• this design.

Tampa, FL 36610

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 Date:

Philip J. O'Regan PE No. 68126
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6904 Parke East Blvd. Tampa FL 33610
Date:

January 4, 2022

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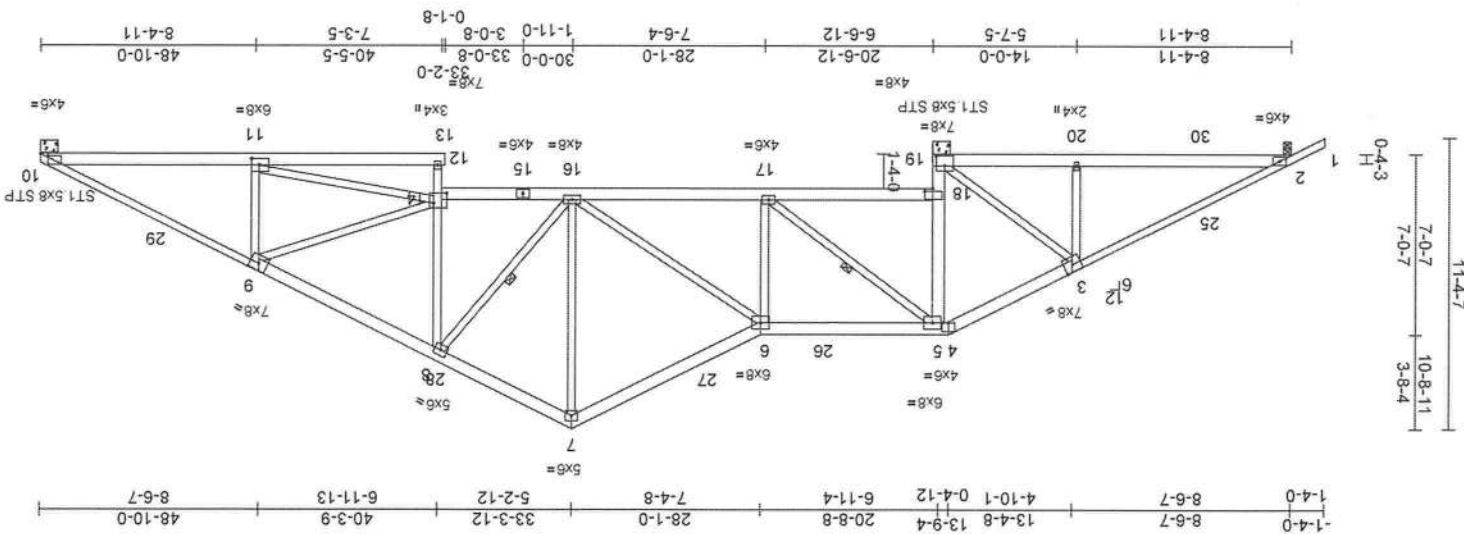
ANSI/TPI Quality Criteria, DSB-89 and BCSI Building Component

Safety information available from Truss Plate Institute, 2570 Crain Highway, Suite 203 Waldorf, MD 20601

Job	2904837	Truss	A18	Truss Type	Roof Special	Qty	1	Ply	1	Job Reference (optional)	T26407411
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Builders FirstSource (GroveLand, FL), GroveLand, FL - 34736.

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ID: s_Mn7E9N0Zsow28as4WU_Ly9jUf-RIC7P5B70Hq3NSgPqnlBw3uITXbGKWCD07J4zJC7f



Scale = 1/80.7

Plate Offsets (X, Y): [3.0;4.0;0.0;3.4], [9.0;4.0;0.0;3.4], [10.0;3.8;0.0;1.1], [11.0;3.8;0.0;3.0], [14.0;6.0;0.0;4.12], [18.0;3.12;0.1;4], [19.0;4.0;0.0;4.12]

Loading	(psf)	Spacing	2.0-0	CSI	DEFL	in	(loc)	l/defl	L/D	PLATES	GRIP	244/190	Weight: 350 lb	FT = 20%
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.62	-0.12	11-22	>999	360	MT20				
TCDL	10.0	Lumber DOL	1.25	BC	0.71	-0.24	11-22	>999	240					
BCLL	0.0*	Rep Stress Incr	YES	WB	0.86	0.03	10	n/a	n/a					
BCDL	10.0	Code	10.0	Matrix-AS	Wind(LL)	0.18	11-22	>999	240					

LUMBER

2x6 SP No.2 "Except" 9'-10.3'-1.2x4 SP No.2

2x6 SP No.2 "Except" 8'-12.2x4 SP No.3

BRACING

Structural wood sheathing directly applied.

Rigid ceiling directly applied. Except:

10'-0" oc bracing: 12-14

1 Row at midpt: 5'-17, 8'-16

REACTIONS

(lb/size) 2=360/0-3-8, 10=1298/0-8-0.

Max Horiz 2=303 (LC 10)

Max Uplift 2=271 (LC 7), 10=632 (LC 11).

Max Grav 2=429 (LC 24), 10=1298 (LC 1).

FORCES

(lb) - Maximum Compression/Maximum

1-2=0/36, 2-4=-256/738, 4-5=-94/567,

5-6=-914/623, 6-7=-1344/786,

7-8=-1312/811, 8-10=-2390/1141

2-20=-576/172, 19-20=-548/157,

18-19=-1914/952, 5-18=-1807/945,

17-18=-618/471, 16-17=-324/944,

14-16=-582/1737, 12-14=0/135,

8-14=-281/710, 12-13=0/0, 11-12=-42/160,

10-11=-875/2059

WEBS

3-20=-810/397, 3-19=-724/1239,

6-16=0/311, 7-16=-427/715, 8-16=-965/624,

9-11=-195/210

NOTES

1) Unbalanced roof live loads have been considered for this design.

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6904 Parke East Blvd.
Tampa, FL 33610

January 4, 2022

Date:

Philip J. O'Regan PE No. 56126
MITek USA, Inc. FL Cont 6834
6904 Parke East Blvd. Tampa FL 33610

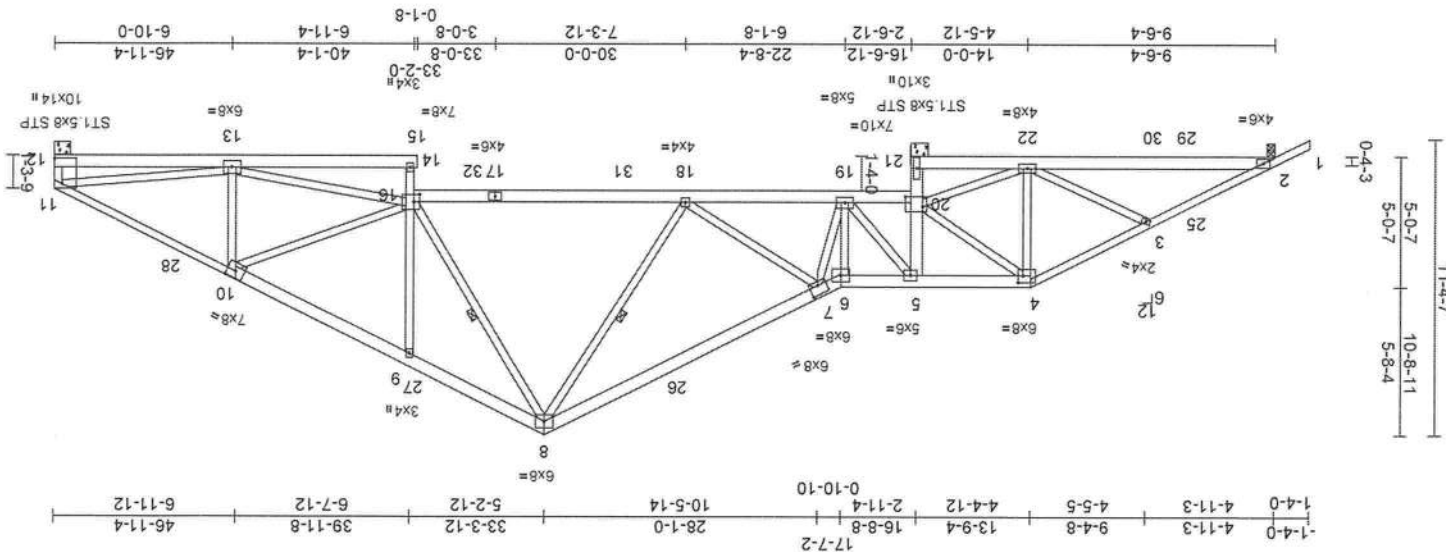
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Job	2904837	Truss	A20	Truss Type	Roof Special	Qty	1	Ply	1	Job Reference (optional)	T26407413
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Builders FirstSource (Groveand, FL), Groveand, FL - 34736.

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Page: 1



Job	2904837	Truss	A21	Truss Type	Roof Special	Qty	1	Ply	1	Job Reference (optional)	T26407414
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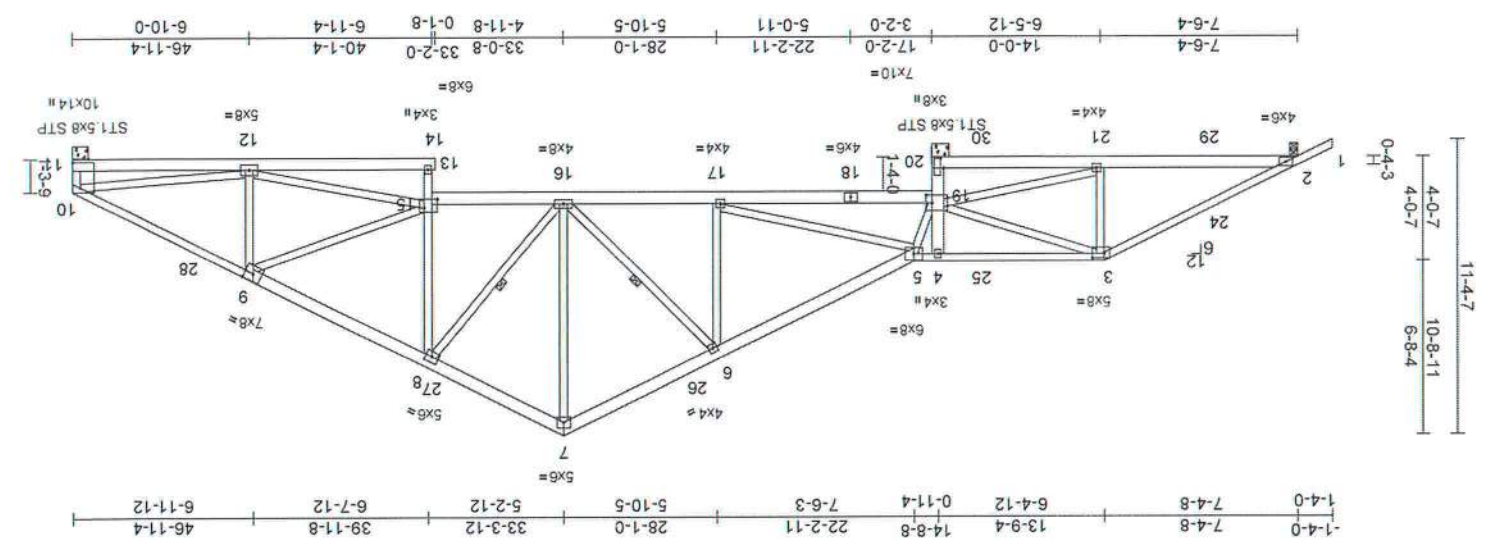


Plate Offsets (X, Y): [3:0-5-8-0-2-4], [9:0-4-0-0-3-4], [1:Edge,0-3-8], [15:0-6-0-0-4-4], [19:0-2-12-0-3-8], [20:0-4-12-0-1-8] Scale = 1/85.4

Loading	Spacing	2-0-0	CSI	DEFL	in (loc)	i/dell	L/d	PLATES	GRIP	244/190	Weight: 351 lb FT = 20%
TCLL (roof)	20.0	1.25	TC	0.59	-0.08	14	>999	360	MT20		
TCDL	10.0	1.25	BC	0.46	-0.16	15-16	>999	240			
BCLL	0.0*	YES	WB	0.72	0.05	11	n/a	n/a			
BCDL	10.0	Code	FBC2020/TP12014	Matrix-AS	Wind(LL)	0.15	21-23	>999	240		

- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; V_{ult}=140mph (3-second gust) V_{asd}=108mph; TC_{DL}=4.2psf; BC_{DL}=5.0psf; h=25ft; Cat. II; Exp. C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -1-4-0 to 3-4-5, Exterior(2R) 3-4-5 to 12-0-13, Interior (1) 12-0-13 to 23-4-11, Exterior (2R) 23-4-11 to 32-9-5, Interior (1) 32-9-5 to 42-1-3, Exterior(2E) 42-1-3 to 46-9-8 zone; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - Provide adequate drainage to prevent water ponding.
 - 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 306 lb uplift at joint 2, 927 lb uplift at joint 20 and 571 lb uplift at joint 11.
 - This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- LOAD CASE(S)** Standard

WEBS
7-16=-403/828
6-16=-281/282, 5-17=-587/1324,
10-12=-465/1330, 6-17=-262/261,
9-15=-47/208, 9-12=-442/313,
8-16=-825/549, 12-15=-628/1539,
3-19=-899/1446, 5-19=-1370/714,
3-21=-616/255, 19-21=-919/515,
11-12=-195/301
8-15=-188/532, 13-14=0/0, 12-13=-46/133,
15-16=-582/1666, 13-15=0/145,
17-19=-83/215, 16-17=-458/1263,
19-20=-1978/1453, 4-19=-204/266,
2-21=-973/429, 20-21=-110/54,
8-10=-1941/955, 10-11=-1195/588
6-7=-1358/799, 7-8=-1342/801,
4-5=-297/514, 5-6=-1496/712,
1-2=0/36, 2-3=-559/1141, 3-4=-223/462,
1-2=0/36, 2-3=-559/1141, 3-4=-223/462,
4-5=-297/514, 5-6=-1496/712,
6-7=-1358/799, 7-8=-1342/801,
8-10=-1941/955, 10-11=-1195/588
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17-19=-83/215, 16-17=-458/1263,
15-16=-582/1666, 13-15=0/145,
8-15=-188/532, 13-14=0/0, 12-13=-46/133,
11-12=-195/301
3-21=-616/255, 19-21=-919/515,
3-19=-899/1446, 5-19=-1370/714,
8-16=-825/549, 12-15=-628/1539,
9-15=-47/208, 9-12=-442/313,
10-12=-465/1330, 6-17=-262/261,
6-16=-281/282, 5-17=-587/1324,
7-16=-403/828

NOTES

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a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see
ANSI/TPI Quality Criteria, DSB-89 and BCSI Building Component
Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

Mittek
6904 Parke East Blvd
Tampa, FL 33610

Date: January 4, 2022

Philipp J. O'Regan PE No. 58126
Mittek USA, Inc. FL Cert 6634
6904 Parke East Blvd, Tampa FL 33610

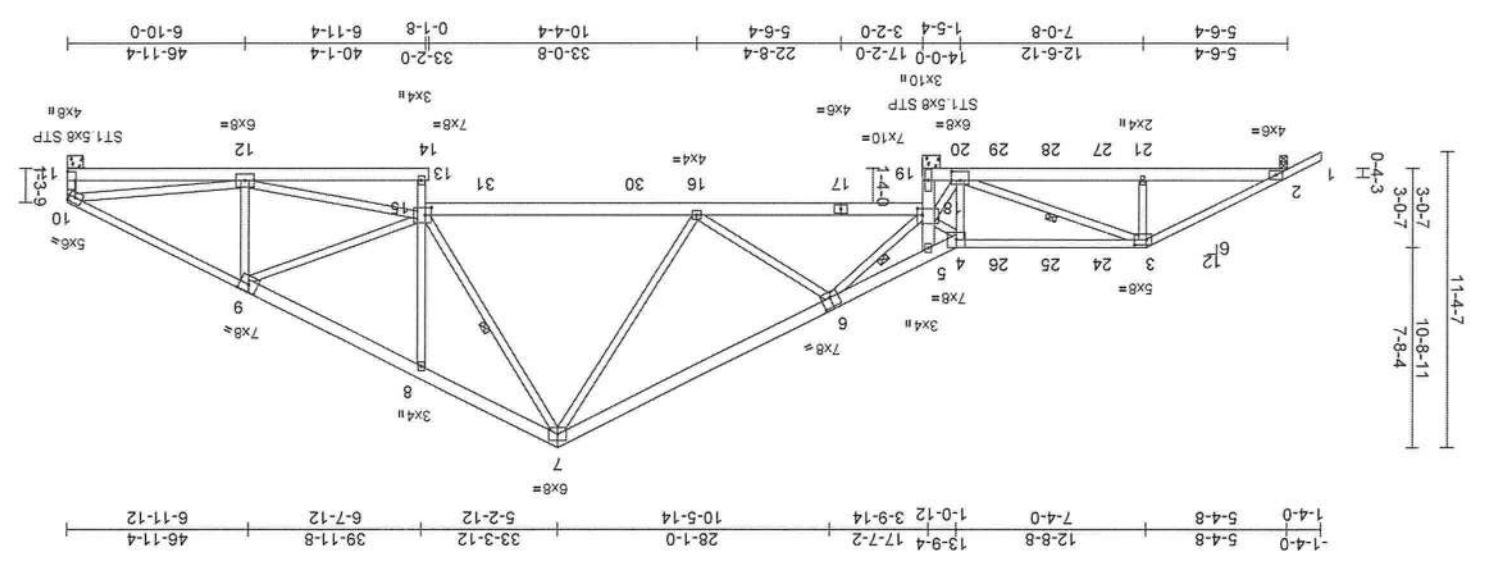
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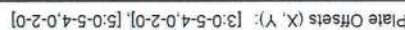
Job	2904837	Truss	A22	Truss Type	Roof Special Girder	Qty	1	Ply	1	Job Reference (optional)	T26407415
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Builders FirstSource (Groveland, FL), Groveland, FL - 34736.

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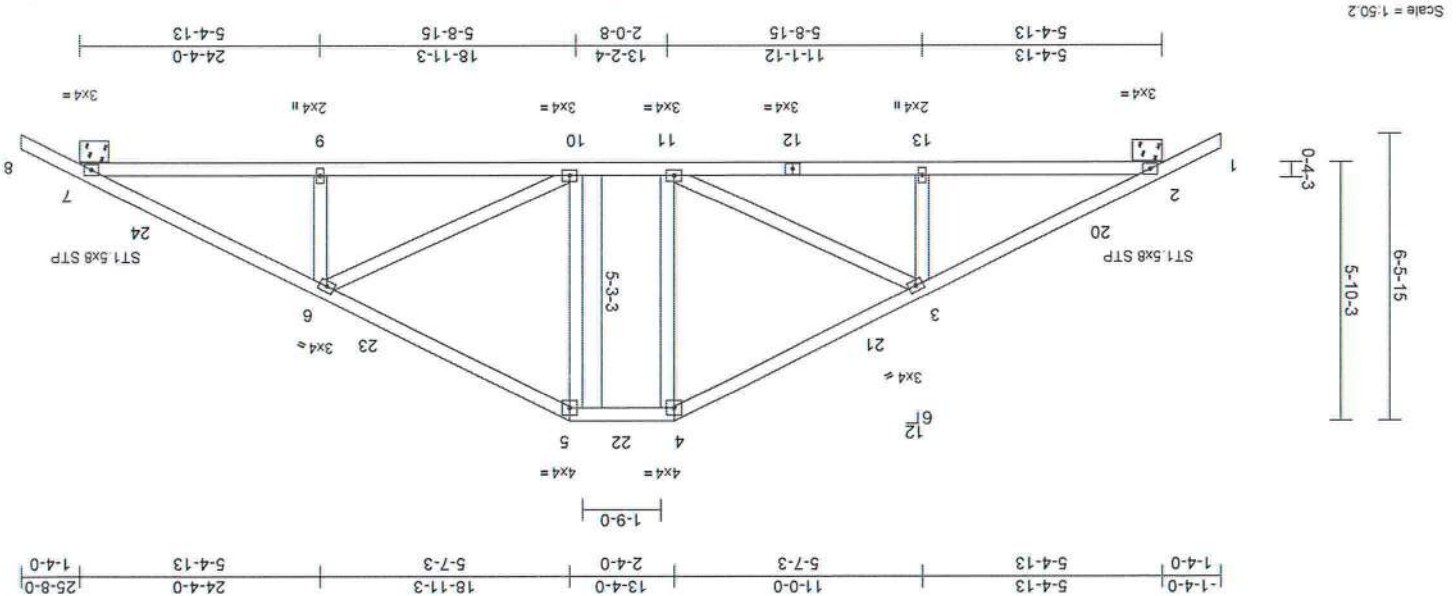


Page: 1

Job	2904837	Truss	B03	Hip	Truss Type	Qty	Ply	Job Reference (optional)	T26407418
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Loading	Spacing	Code	Matrix-AS	DEFL	in (cc)	L/d	PLATES	GRIP	Weight: 122 lb FT = 20%
TCLL (roof)	20.0	Plate Grip DOL	TC	0.36	-0.10	9-10	360	244/190	
TCDL	10.0	Lumber DOL	BC	0.45	-0.18	9-10	240		
BCLL	0.0*	Rep Stress Incr	WB	0.45	0.06	7	n/a		
BCDL	10.0				0.13	11-13	>999	240	

6) * This truss has been designed for a live load of 20 Dpsf on the bottom chord in all areas where a rectangle 3'-06-00 tall by 2'-00-00 wide will fit between the bottom chord and any other members.

7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 475 lb uplift at joint 2 and 475 lb uplift at joint 7.

8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

BRACING
TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied.
RECTIONS (lbs/size) 2=1053/0-8-0, 7=1053/0-8-0
Max Horiz 2=162 (LC 10)
Max Uplift 2=-475 (LC 10), 7=-475 (LC 11)

FORCES
(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/36, 2-3=-1785/747, 3-4=-1268/617,
4-5=-1068/619, 5-6=-1268/617,
6-7=-1784/747, 7-8=0/36
BOT CHORD 2-13=-696/1548, 11-13=-696/1548,
10-11=-310/1068, 9-10=-535/1548,
7-9=-535/1548
WEBS 3-13=0/235, 3-11=-581/430, 4-11=-105/328,
5-10=-105/328, 6-10=-581/431, 6-9=0/235

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=140mph (3-second gust)
Vasd=108mph; TCDL=4.2psf; BCDL=5.0psf; h=25ft;
Cal. II: Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -1-4-0 to 1-8-0, Interior (1) 1-8-0 to 6-9-1, Exterior(2R) 6-9-1 to 17-6-15, Interior (1) 17-6-15 to 22-8-0, Exterior(2E) 22-8-0 to 25-8-0 zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

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Tampa, FL 33610
6904 Park East Blvd.

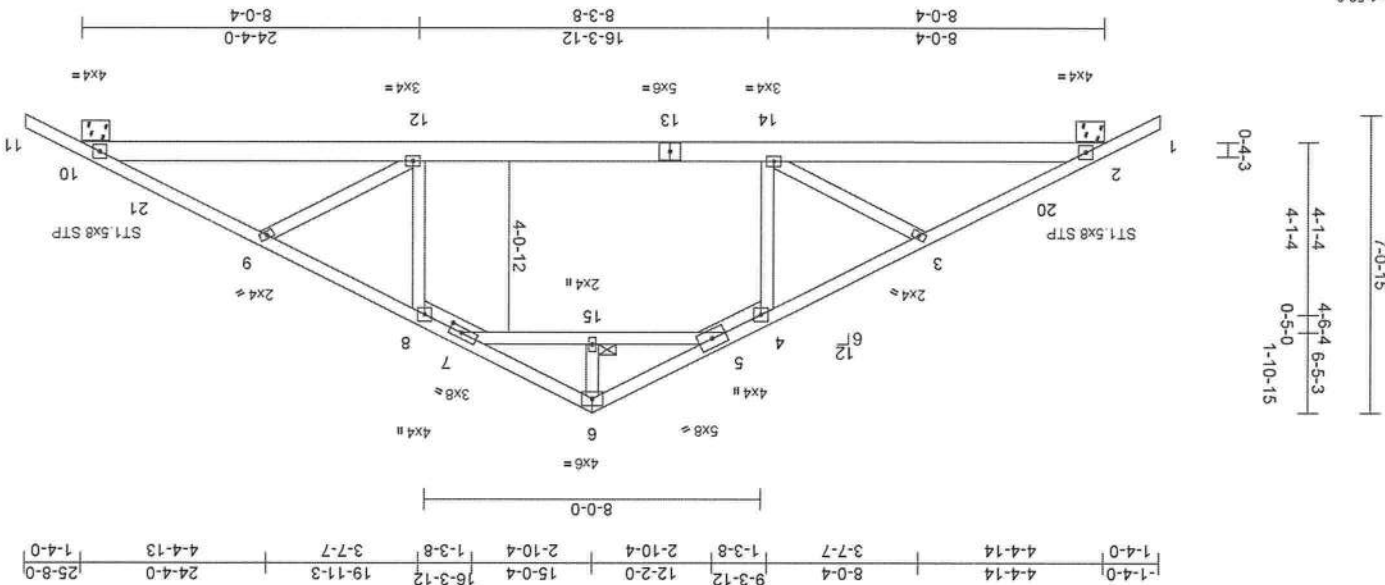
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Philip J. O'Regan PE No.58128
MITek USA, Inc. FL Cert 6634
6904 Park East Blvd, Tampa FL 33610
Date: January 4, 2022

Job	2904837	Truss	B04	Truss Type	Attic	Qty	5	Ply	1	Job Reference (optional)	T26407419
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Builders FirstSource (Groveand, FL), Groveand, FL - 34736.

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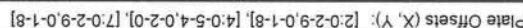


Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in (loc)	l/defl	L/D	PLATES	GRIP	244/190	Weight: 141 lb FT = 20%
TCLL (roof)	2.0	Plate Grip DOL	1.25	TC	0.92	-0.22	12-14	>999	360	MT20		
BCLL	0.0	Rep Stress Incr	YES	WB	0.33	0.05	10	n/a	n/a			
BCDL	10.0	Lumber DOL	1.25	BC	0.82	-0.36	12-14	>809	240			

LUMBER	2x4 SP No.2	2x6 SP No.2	2x4 SP No.3	WEBS	BRACING	TOP CHORD	Structural wood sheathing directly applied.	JOINTS	1 Brace at J(s): 15	RECTIONS	(lb/size)	2=1176/0-8-0, 10=1176/0-8-0	Max Horiz	2=176 (LC 10)	Max Uplift	2=382 (LC 10), 10=382 (LC 11)	Max Grav	2=1290 (LC 2), 10=1290 (LC 2)	(lb) - Maximum Compression/Maximum Tension	TOP CHORD	4-5=-1803/578, 5-6=-1351/53, 6-7=-1351/53, 7-8=-1803/579, 8-9=-2209/559, 9-10=-2483/684, 10-11=0/36, 11-12=-553/2207, 12-13=-2591/1891, 13-14=-474/2209, 14-15=-261701, 15-16=-1958/494, 16-17=-1958/494, 17-18=-423/347, 18-19=-423/351	WEBS	9-12=-423/347, 3-14=-430/351	NOTES	1) Unbalanced roof live loads have been considered for this design. 2) Wind: ASCE 7-16: Vult=140mph (3-second gust) Vasd=108mph; TCCL=4.2psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(ZE) -1-4-0 to 1-8-0, Interior (1) 1-8-0 to 8-11-11, Exterior(ZE) 8-11-11 to 15-4-5, Interior (1) 15-4-5 to 22-8-0, Exterior(ZE) 22-8-0 to 25-8-0 zone; forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
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LOAD CASE(S)	Standard	10) Attic room checked for L/360 deflection.	the bottom chord.	9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to joint 2 and 382 lb uplift at joint 10.	8) Provide mechanical connection (by others) of truss to chord dead load (5.0 psf) applied only to room. 12-14 bearing plate capable of withstanding 382 lb uplift at joint 2 and 382 lb uplift at joint 10.	7) Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 12-14	6) Ceiling dead load (5.0 psf) on member(s). 4-5, 7-8, 5-15, 7-15: Wall dead load (5.0psf) on member(s). 8-12, 4-14	5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3'-0"-0" tall by 2'-0"-0" wide will fit between the bottom chord and any other members.	4) 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'-0"-0" tall by 2'-0"-0" wide will fit between the bottom chord and any other members.	3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
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Notes	1) Unbalanced roof live loads have been considered for this design. 2) Wind: ASCE 7-16: Vult=140mph (3-second gust) Vasd=108mph; TCCL=4.2psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(ZE) -1-4-0 to 1-8-0, Interior (1) 1-8-0 to 8-11-11, Exterior(ZE) 8-11-11 to 15-4-5, Interior (1) 15-4-5 to 22-8-0, Exterior(ZE) 22-8-0 to 25-8-0 zone; forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
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7) This truss has been designed for a 10.0 psf bottom

Proy

MITek
6904 Parke East Blvd.
Tampa, FL 36610

This item has been

Job	2904837	Truss	B07	Truss Type	Roof Special	Qty	1	Ply	1	Job Reference (optional)	T26407422
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Builders FirstSource (Groveand, FL), Groveand, FL - 34736.

Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 Mitek Industries, Inc. Wed Dec 29 18:47:00
ID:v4MGuIFvDbqJ3fXsd9JLDXy6kxv-RtC7P5B70Hq3NSgPqnlBw3uITXbGKvWvD0i7J4zJC7#

Page: 1

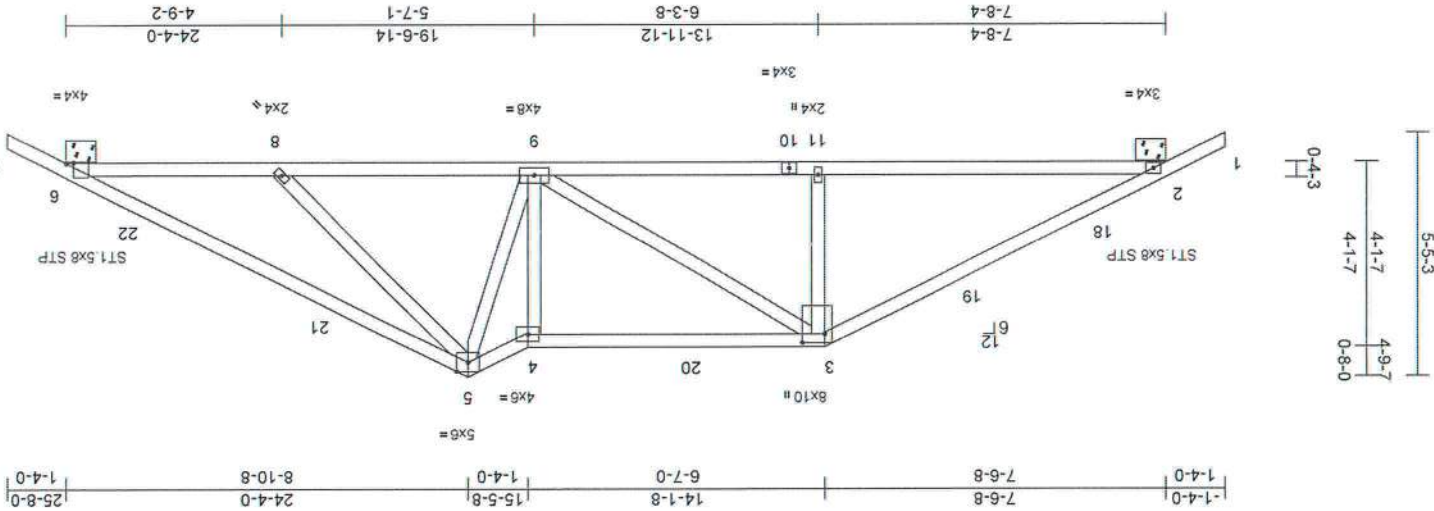


Plate Offsets (X, Y): [3:0-2-8-0-6-0], [6:0-2-0-Edge]
Scale = 1/49.4

Loading	Spacing	Code	FBC2020/TP1014	Matrix-AS	DEFL	in	(loc)	i/dell	L/d	PLATES	GRIP	Weight: 117 lb FT = 20%
TCLL (roof)	20.0	Plate Gnp DOL	1.25	TC	0.81	-0.09	11-14	>999	360	MT20	244/190	
TCDL	10.0	Lumber DOL	1.25	BC	0.85	-0.22	11-14	>999	240			
BCLL	0.0*	Rep Stress Incr	YES	WB	0.39	0.05	6	n/a	n/a			
BCDL	10.0					0.16	11-14	>999	240			

- 6) * This truss has been designed for a live load of 20 Dpst on the bottom chord in all areas where a rectangle 3'-06-00 tall by 2'-00-00 wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 518 lb uplift at joint 2 and 432 lb uplift at joint 6.
- 8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- FORCES**
- (lb) - Maximum Compression/Maximum Tension
- TOP CHORD 1-2=0/36, 2-3=-1646/839, 3-4=-1519/880, 4-5=-1687/967, 5-6=-1731/826, 6-7=0/36
- BOT CHORD 2-1=-622/1396, 9-11=-621/1403, 8-9=-492/1262, 6-8=-528/1448
- WEBS 3-11=0/305, 3-9=-111/184, 4-9=-871/511, 5-9=-478/1014, 5-8=-85/327
- REACTIONS**
- (lb/size)
- Max Horiz 2=-133 (LC 11)
- Max Uplift 2=-518 (LC 10), 6=-432 (LC 11)
- BRACING**
- TOP CHORD Structural wood sheathing directly applied.
- BOT CHORD Rigid ceiling directly applied.
- LUMBER**
- TOP CHORD 2x4 SP No.2
- BOT CHORD 2x4 SP No.2
- WEBS 2x4 SP No.3

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=108mph; TCCL=4.2psf; BCCL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -1-4-0 to 1-8-0, Interior (1) 1-8-0 to 4-6-8, Exterior(2R) 4-6-8 to 10-6-8, Interior (1) 10-6-8 to 14-1-8, Exterior(2R) 14-1-8 to 18-5-8, Interior (1) 18-5-8 to 22-8-0, Exterior(2E) 22-8-0 to 25-8-0 zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate gnp DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MITEK connectors. This design is based only upon parameters shown, and is for an individual building component, not a building system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members and for general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems; see **ANSI/TPI Quality Criteria, DSB-88 and BCSI Building Component** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



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Tampa, FL 33610

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Philip J. O'Regan PE No.58126
Mitek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

January 4, 2022

Job	2904837	B08	Roof Special	Qty	1	Ply	1	Job Reference (optional)	T26407423
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Builders FirstSource (GroveLand, FL) - 34735.

Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 Mittek Industries, Inc. Wed Dec 29 18:47:00
ID: 9MTXMMntspFqjs7eh_QSbykvg-RtC7Psb70Hq3NSgPqnlBw3uITXbGKwVrDCDoITJ4zJC7f

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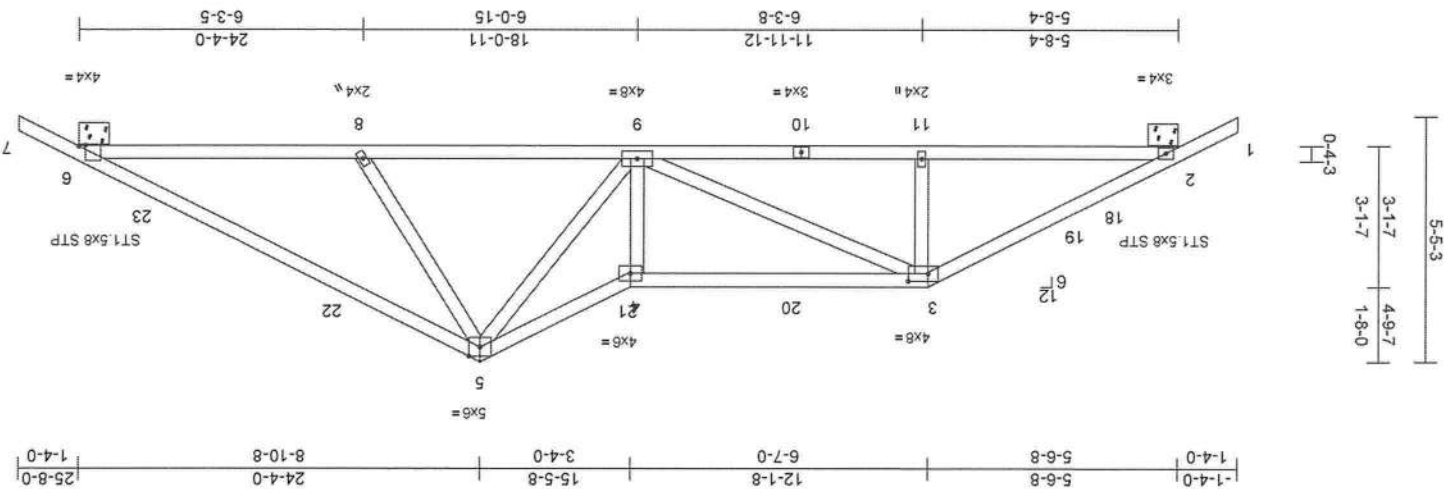


Plate Offsets (X, Y): [3:0-5-4-0-2-0], [6:0-1-1-2, Edge]
Scale = 1:49.2

Loading	Spacing	Code	BCDL
TCLL (roof)	2.0-0	Rep Stress Incr	10.0
TOP CHORD	2x4 SP No. 2	Lumber DOL	10.0
WEBS	2x4 SP No. 3	Plate Grrp DOL	20.0
BRACING	Structural wood sheathing directly applied.		
RECTIONS	(lb/size) 2=1053/0-8-0, 6=1053/0-8-0		
FORCES	(lb) - Maximum Compression/Maximum Tension		
TOP CHORD	2-3=-1773/921, 3-4=-2096/155		
BOT CHORD	2-1=-720/1533, 9-11=-718/1540		
WEBS	5-9=-769/1473, 5-8=-26/325		
NOTES			

- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3'-06-00 tall by 2'-00-00 wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 518 lb uplift at joint 2 and 432 lb uplift at joint 6.
- 8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- LOAD CASE(S) Standard

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=108mph; TCFL=4.2psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -1-4-0 to 1-8-0, Interior (1) 1-8-0 to 2-6-8, Exterior(2R) 2-6-8 to 8-6-8, Interior (1) 8-6-8 to 12-5-8, Exterior(2R) 12-5-8 to 18-5-8, Interior (1) 18-5-8 to 22-8-0, Exterior(2E) 22-8-0 to 25-8-0 zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITTEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with Mittek connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of truss systems, see ANSIPRI Quality Criteria, DSB-89 and BCS1 Building Component Safety Information, available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



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Tampa, FL 33610

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Philip J. O'Regan PE No. 58126
Mittek USA, Inc. FL Cert 6634
6904 Parke East Blvd, Tampa FL 33610

Date: January 4, 2022

Job	Truss	Truss Type	Qty	1	Job Reference (optional)
2904837	B10	Common Girder	1	1	T26407425

Builders FirstSource (GroveLand, FL) - 34736.

Run: 8.43 S Oct 11 2021 Print: 8.43 S Oct 11 2021 Mitek Industries, Inc. Wed Dec 29 18:47:01
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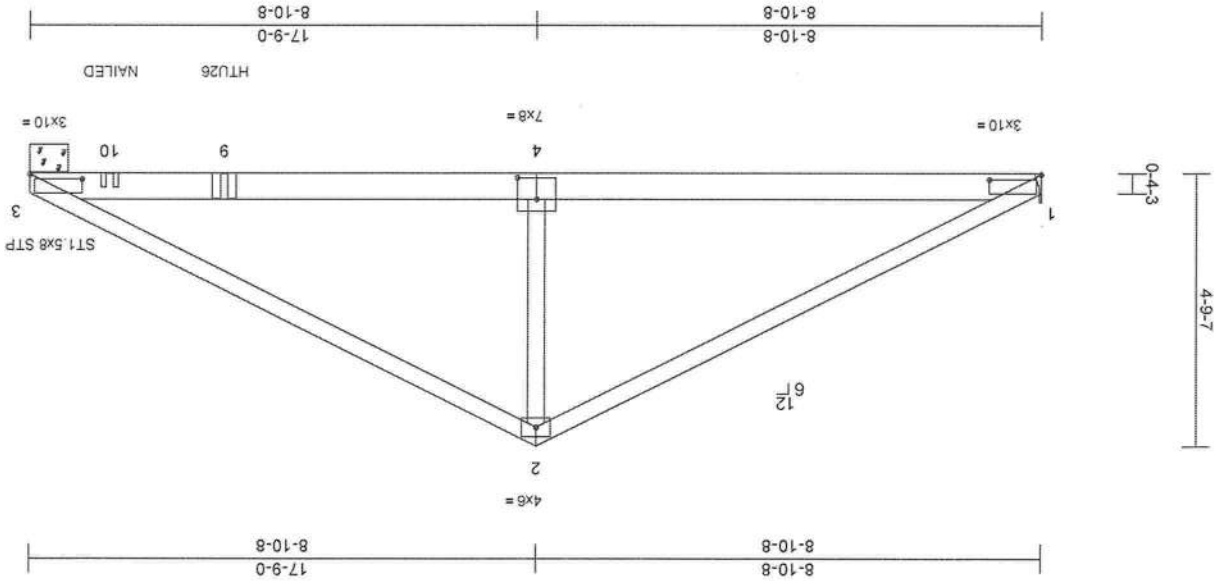


Plate Offsets (X, Y): [1:0-11-0-0-1-1], [3:0-11-0-0-1-1], [4:0-4-0-0-4-8]

Loading	Spacing	Code	BCDL
(psf)	2-0-0	FBC2020/TP12014	10.0
Truss	Rep Stress Incr	WB	BCLL
20.0	NO	0.24	0.0 *
TOP CHORD	Lumber DOL	BC	TCCL (roof)
2x6 SP M 31	1.25	0.54	10.0
WEBS	Plate Grrp DOL	TC	
2x4 SP No.3	1.25	0.49	20.0
BRACING	Spacing	CSI	
Structural wood sheathing directly applied or	2-0-0	0.49	2-0-0
5-8-14 oc purlins.			
5-8-14 oc purlins.			
RECTIONS	Max Uplift	Max Horiz	
(lb/size)	1=348 (LC 8), 3=553 (LC 9)	1=117 (LC 9)	
Max Uplift	1=348 (LC 8), 3=553 (LC 9)		
FORCES	(lb) - Maximum Compression/Maximum		
Tension	1-2=-1334/568, 2-3=-1324/562		
BOT CHORD	1-2=-1334/568, 2-3=-1324/562		
WEBS	Max Uplift		
2x4=-168/623			
NOTES			
1) Unbalanced roof live loads have been considered for this design.			
2) Wind: ASCE 7-16: Vult=140mph (3-second gust) Vasd=108mph; TCCL=4.2psf; BCCL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior			
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.			
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.			
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.			
6) Refer to girder(s) for truss to truss connections.			

- 7) Provide mechanical connection (by others) of truss to joint 1 and 553 lb uplift at joint 3.
bearing plate capable of withstanding 348 lb uplift at joint 1 and 553 lb uplift at joint 3.
- 8) Use Simpson Strong-Tie HTU26 (20-10d Girder, 1-10dx1 1/2 Truss, Single Ply Girder) or equivalent at 14-4 from the left end to connect truss(es) to front face of bottom chord.
- 9) Fill all nail holes where hanger is in contact with lumber. "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidelines.
- 11) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).
- LOAD CASE(S) Standard
- 1) Dead + Roof Live (balanced): Lumber increase=1.25, Plate increase=1.25
- Uniform Loads (lb/ft)
Vert: 1-2=-60, 2-3=-60, 1-3=-20
Concentrated Loads (lb)
Vert: 9=-396 (F), 10=-123 (F)

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Philip J. O'Regan PE No.58126
Mitek USA, Inc. FL Cert 6634
6904 Parke East Blvd, Tampa FL 33610
Date: January 4, 2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITTEK REFERENCE PAGE MIII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with Mitek connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see *ANSI/APA Quality Criteria, DSB-89 and BCS Building Component* available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601.

Mitek
6904 Parke East Blvd
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Py	Job Reference (optional)
2904837	B11	Common	1	1	T26407426

Builders FirstSource (Groveland, FL - 34736,

Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 Mitek Industries, Inc. Wed Dec 29 18:47:01
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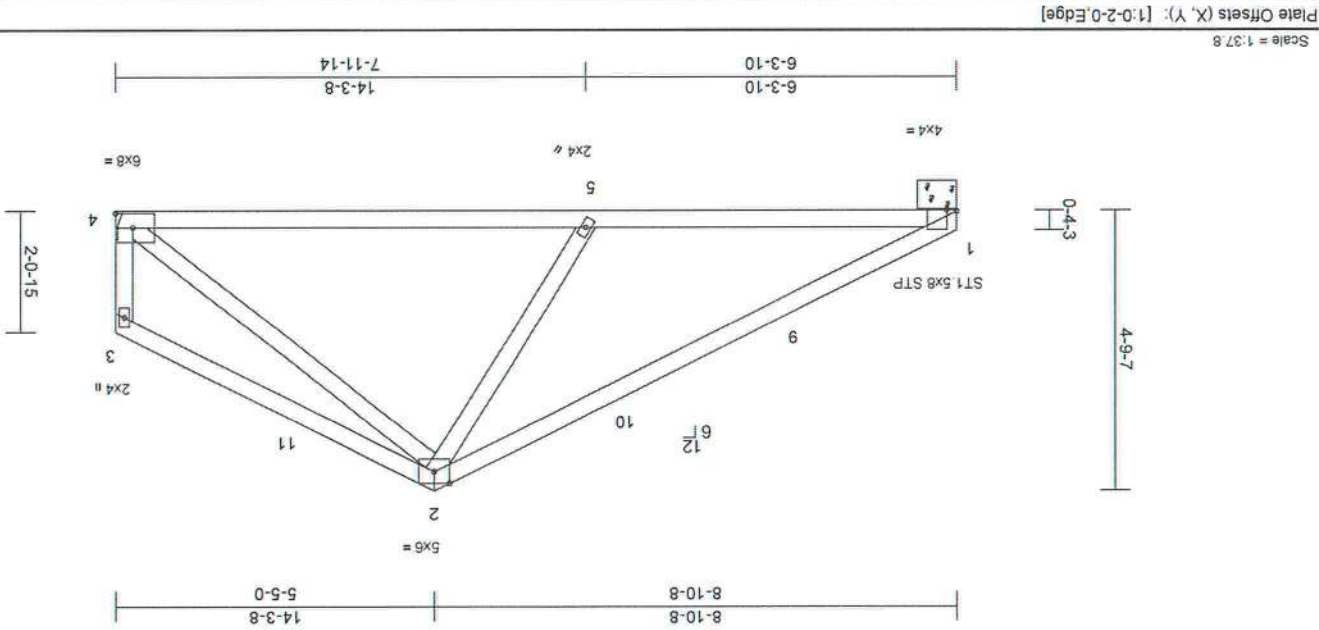


Plate Offsets (X, Y): [1:0-2:0-Edge]

Loading	Spacing	Code	Matrix-AS	DEFL	in	(loc)	I/dell	L/d	PLATES	Weight: 65 lb	FT = 20%
TCLL (roof)	20.0	Plate Gnp DOL	TC	0.75	-0.10	5-8	>999	360	MT20	244/190	GRIP
TDCL	10.0	Lumber DOL	BC	0.81	-0.17	5-8	>999	240			
BCLL	0.0*	Rep Stress Incr	WB	0.47	0.01	4	n/a	n/a			
BCDL	10.0					5-8	>927	240			

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

BRACING	Structural wood sheathing directly applied, except end verticals.
TOP CHORD	Rigid ceiling directly applied.
BOT CHORD	(lb/size) 1=566/0-8-0, 4=566/ Mechanical

REACTIONS	Max Horiz 1=163 (LC 9)
	Max Uplift 1=-253 (LC 10), 4=-216 (LC 11)
FORCES	(lb) - Maximum Compression/Maximum Tension
TOP CHORD	1-2=-782/491, 2-3=-164/171, 3-4=-196/213
BOT CHORD	1-5=-282/603, 4-5=-271/467
WEBS	2-5=-222/395, 2-4=-533/406

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16: V=140mph (3-second gust) Vasd=108mph; TCFL=4.2psf; BCFL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior (1) 3-0-0 to 5-10-8, Exterior(2R) 5-10-8 to 11-1-12, Exterior (2E) 11-1-12 to 14-1-12 zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.

- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 253 lb uplift at joint 1 and 216 lb uplift at joint 4.
- 8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard

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Philip J. O'Regan PE No.58126
Mitek USA, Inc. FL Cert 8634
6904 Parke East Blvd, Tampa FL 33610
Date: January 4, 2022



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Tampa, FL 33610

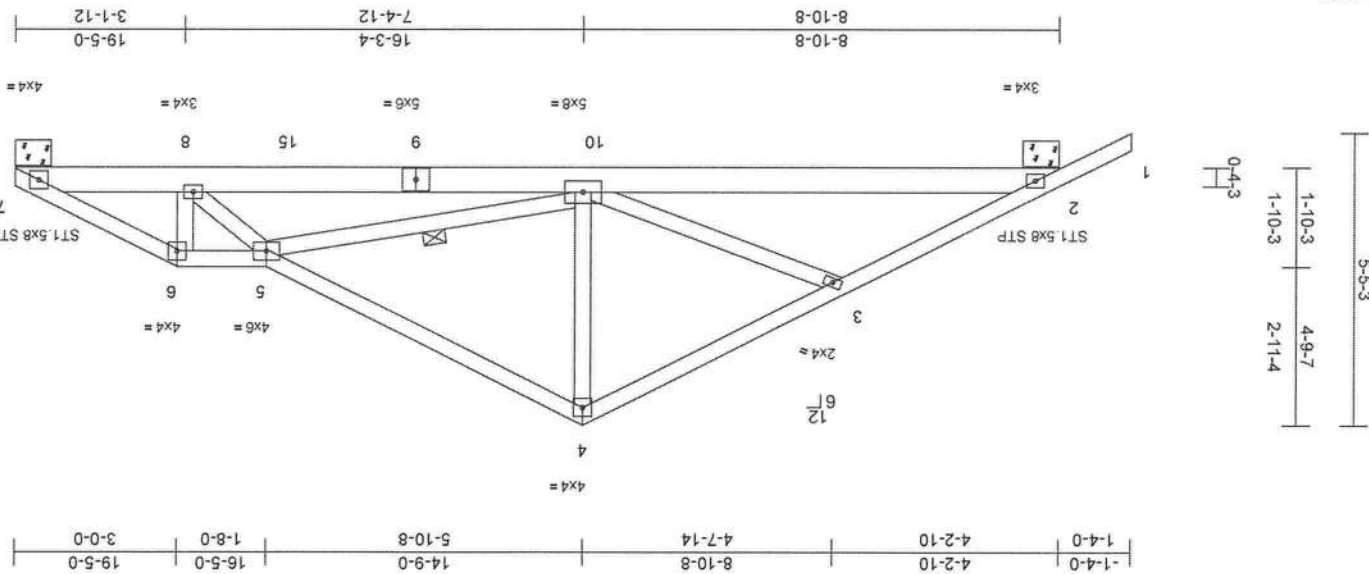
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with Mitek connectors. This design is based upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI Quality Criteria, DSB-88 and BCS Building Component** available from Truss Plate Institute, 2670 Grain Highway, Suite 203 Waldorf, MD 20601

Job	Truss	Truss Type	City	Ply	Job Reference (optional)
2904837	B12	Roof Special Girder	1	1	T26407427

Builders FirstSource (GroveLand, FL) - 34736.

Run: 8:43 S Oct 11 2021 Print: 8:430 S Oct 11 2021 Mitek Industries, Inc. Wed Dec 29 18:47:02
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Page: 1



Loading	Spacing	Code	Matrix-MS	DEFLL	in	(loc)	l/defl	L/D	PLATES	GRIP	Weight: 106 lb	FT = 20%
BCDL	10.0	10.0	NO	0.43	0.15	8-10	>999	240	MT20	244/190	n/a	
BCLL	0.0*	10.0	BC	0.78	0.04	8-10	>999	240			n/a	
TCDL	20.0	1.25	TC	0.65	-0.11	8-10	>999	360				
TCLL (roof)	2.0	1.25	CSI									

6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3'-06-00 tall by 2'-00-00 wide will fit between the bottom chord and any other members.

7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 581 lb uplift at joint 7 and 455 lb uplift at joint 2.

8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 57 lb down and 30 lb up at 16'-5-0 on top chord, and 396 lb down and 220 lb up at 14'-4-4, and 131 lb down and 89 lb up at 16'-4-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

9) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (lb/ft)

Concentrated Loads (lb)

Vertical: 6=-1 (B), 8=-130 (B), 15=-396 (B)

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16: Vult=140mph (3-second gust) Vasd=108mph; TCCL=4.2psf; BCCL=5.0psf; h=25ft; Cal. II: Exp C; Enclosed; MWFRS (envelope) exterior zone; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

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6904 Parke East Blvd.
Tampa, FL 33610

January 4, 2022

Date:

6904 Parke East Blvd, Tampa FL 33610

Mitek USA, Inc. FL Cent 8634

Philip J. O'Regan PE No. 58126

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Job	2904837	Truss	B13	Truss Type	Roof Special	Oly	1	Ply	1	Job Reference (optional)	T26407428
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Builders FirstSource (Groveland, FL), Groveland, FL - 34736.

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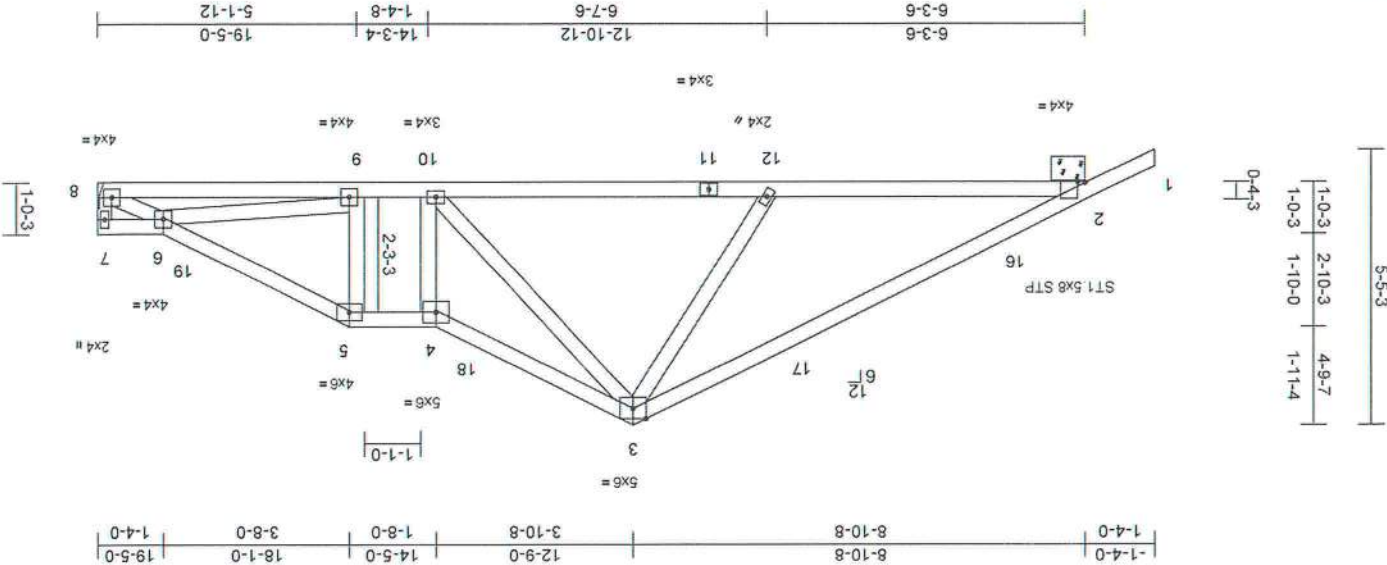


Plate Offsets (X, Y): [2:0-1-12,Edge]

Loading	Spacing	Code	Rep Stress Incr	Matrix-AS	DEFL	Wind(LL)	Horz(CT)	Vert(CT)	Wind(LL)	Horz(CT)	Vert(CT)	Weight: 94 lb	FT = 20%
TCLL (roof)	20.0	Plate Grp DOL	1.25	TC	0.78	0.17	0.03	-0.21	0.17	0.03	-0.21	MT20	
TCDL	10.0	Lumber DOL	1.25	BC	0.78	0.17	0.03	-0.21	0.17	0.03	-0.21	GRIP	244/190
BCLL	0.0	Rep Stress Incr	YES	WB	0.27	0.17	0.03	-0.21	0.17	0.03	-0.21		
BCDL	10.0	Code											

LUMBER	2x4 SP No. 2	TOP CHORD
WEBS	2x4 SP No. 3	BOT CHORD
BRACING		
TOP CHORD	Structural wood sheathing directly applied, except end verticals.	
BOT CHORD	Rigid ceiling directly applied.	
REACTIONS	(lb/size) 2=854/0-8-0, 8=768/ Mechanical	
Max Horiz	2=153 (LC 14)	
Max Uplift	2=-379 (LC 10), 8=-338 (LC 11)	
FORCES	(lb) - Maximum Compression/Maximum Tension	
TOP CHORD	1-2=0/36, 2-3=-1229/668, 3-4=-1390/974, 4-5=-1212/809, 5-6=-1359/823, 6-7=-57/0, 7-8=-80/35	
BOT CHORD	2-12=426/1002, 10-12=-416/862, 9-10=-645/1212, 8-9=-728/1122, 3-12=-25/375, 3-10=-382/645, 4-10=-546/447, 5-9=-97/248, 6-9=0/130, 6-8=-1291/916	
WEBS		
NOTES		

- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=108mph; TC DL=4.2psf; BC DL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -1-4-0 to 1-8-0, Interior (1) 1-8-0 to 5-10-8, Exterior(2R) 5-10-8 to 11-10-8, Interior (1) 11-10-8 to 12-9-0, Exterior(2R) 12-9-0 to 17-5-0, Interior (1) 17-5-0 to 18-1-0, Exterior(2E) 18-1-0 to 19-3-4 zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grp DOL=1.60
 - 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- LOAD CASE(S) Standard
- 4) Provide adequate drainage to prevent water ponding.
 - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
 - 7) Refer to girder(s) for truss to truss connections.
 - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 338 lb uplift at joint 8 and 379 lb uplift at joint 2.
 - 9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

This item has been electronically signed and sealed by Oregon, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Philip J. O'Regan PE No.58126
Mitek USA, Inc. FL Cert 6634
6904 Park East Blvd, Tampa FL 33610

January 4, 2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITTEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with Mitek connectors. This design is based only upon parameters shown, and is for an individual building component, not a building system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI Quality Criteria, DSB-89 and BCSI Building Component** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



6904 Park East Blvd
Tampa, FL 33610

Job	2904837	Truss	B15	Truss Type	Root Special Girder	Qty	1	Ply	3	Job Reference (optional)	126407430
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Run: 8:43 S Oct 11 2021 Print: 8:43 S Oct 11 2021 Mitek Industries, Inc. Wed Dec 28 19:47:03
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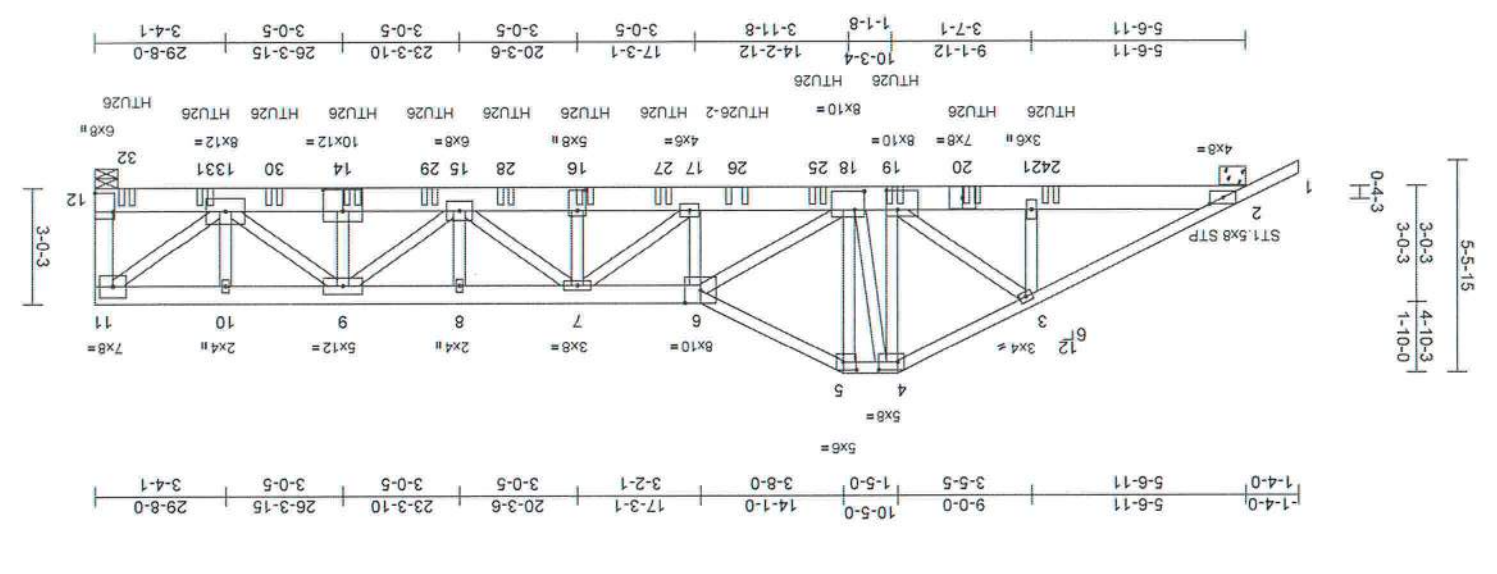


Plate Offsets (X, Y): [2:0-4:0-0-1-15], [4:0-6:0-0-2-8], [5:0-4:0-0-2-8], [12:Edge:0-5-8], [14:0-6:0-0-6-12], [16:0-6:4-0-2-8], [18:0-3:0-0-5-12], [19:0-3:8-0-6-0]
Scale = 1:57.5

Loading	Spacing	Code	FBC2020/TP12014	Matrix-MS	Wind(LL)	Wind(CT)	Horz(CT)	Vert(CT)	Vert(LL)	DEFLL	in (loc)	i/defl	L/d	MT20	GRIP	Weight: 693 lb	FT = 20%
TCLL (roof)	20.0	Plate Gnp DOL	1.25	TC	0.70	0.63	-0.74	-0.38	-0.38	16-17	>936	360	240	n/a	n/a	244/190	
TCDL	10.0	Lumber DOL	1.25	BC	0.63	0.52	-0.74	-0.38	-0.38	16-17	>475	240	240	n/a	n/a	244/190	
BCLL	0.0*	Rep Stress Incr	NO	WB	0.89	0.12	0.12	0.12	0.12	16-17	>679	240	240	n/a	n/a	244/190	
BCDL	10.0	Code	FBC2020/TP12014	Matrix-MS	Wind(LL)	Wind(CT)	Horz(CT)	Vert(CT)	Vert(LL)	DEFLL	in (loc)	i/defl	L/d	MT20	GRIP	Weight: 693 lb	FT = 20%

LUMBER	2x4 SP No. 2 *Except 6-11:2x6 SP No.2	2x4 SP No. 2	2x8 SP 2x400F 2.0E	2x4 SP No. 3 *Except 11-12:2x6 SP No.2	18-6:2x4 SP No.2	7-17,11-13,15-7,15-9,13-9:2x4 SP No.1	Structural wood sheathing directly applied or 4-4-14 oc purlins, except and verticals	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.	REACTIONS	(lb/size) 2-7x47/0-8-0, 12=11437/0-7-0	Max Horiz 2-210 (LC 24)	Max Uplift 2-3596 (LC 8), 12=5110 (LC 9)	Max Grav 2-7x47 (LC 1), 12=11450 (LC 2)	FORCES	(lb) - Maximum Compression/Maximum Tension	TOP CHORD	1-2-0/36, 2-3=-15977/17751	3-4=-14927/7202, 4-5=-14742/7151, 5-6=-16255/7814, 6-7=-29423/13987, 7-8=-26659/12361, 8-9=-26859/12361, 9-10=-12146/5450, 10-11=-12146/5450, 11-12=-9677/4393	BOT CHORD	2-21=-6962/14252, 19-21=-6962/29245, 18-19=-6420/13353, 17-18=-13960/29245, 16-17=-14222/30342, 15-16=-14222/30342, 13-15=-9744/21298, 12-13=-228/441	WEBS	4-19=-9651/1843, 4-18=-2401/5029, 5-18=-3337/77005, 6-18=-17723/8401, 6-17=-1330/3091, 3-19=-1215/901, 3-21=-553/905, 7-17=-1878/305, 7-15=-4505/2340, 8-14=-1037/2574, 9-13=-11839/5488, 10-13=-78/274	NOTES									
1)	3-ply truss to be connected together with 10d	10d	Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc, 2x8 - 3 rows staggered at 0-5-0 oc.	Web connected as follows: 2x4 - 1 row at 0-9-0 oc, Except member 7-16 2x4 - 2 rows staggered at 0-4-0 oc, Except member 9-14 2x4 - 2 rows staggered at 0-4-0 oc.	2)	All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.	3)	Unbalanced roof live loads have been considered for this design.	4)	Wind: ASCE 7-16: V=1140mph (3-second gust) V=108mph; TCFL=4.2psf; BCDL=5.0psf; h=25ft; Cal. II, Exp C; Enclosed; MWFRS (envelope) exterior DOL=1.60 plate grip DOL=1.60 Zone, end vertical left and right exposed; Lumber Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.	6)	Provide adequate drainage to prevent water ponding.	7)	This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.	8)	* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-0-0 tall by 2-00-00 wide will fit between the bottom chord and any other members.	9)	Provide mechanical connection (by others) of truss to beam/pole capable of withstanding 5110 lb uplift at joint 12 and 3596 lb uplift at joint 2.	10)	Use Simpson Strong-Tie HTU26 (20-10d Girders, 14-10d Truss, Single Ply Girders) or equivalent spaced at 6-0-0 oc max, starting at 5-0-12 from the left end to 28-10-4 to connect truss(es) to front face of bottom chord.	11)	Use Simpson Strong-Tie HTU26-2 (20-10d Girders, 14-10d Truss, Single Ply Girders) or equivalent spaced at 6-0-0 oc, 2x8 - 3 rows staggered at 0-5-0 oc.	12)	Use Simpson Strong-Tie HTU26 (20-10d Girders, 14-10d Truss, Single Ply Girders) or equivalent spaced at 6-0-0 oc, 2x8 - 3 rows staggered at 0-5-0 oc.	13)	Fill all nail holes where hanger is in contact with lumber. Face of bottom chord.	LOAD CASE(S) Standard	1)	Dead + Roof Live (balanced); Lumber Increase=1.25, Plate Increase=1.25	Uniform Loads (lb/ft)	Vert: 1-4=-60, 4-5=-60, 5-6=-60, 6-11=-60, 2-12=-20 Concentrated Loads (lb)	This item has been electronically signed and sealed by Oregon, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.	Philip J. O'Regan PE No.55126 MITTOK USA, Inc. FL Cert 6634 6904 Park East Blvd, Tampa FL 33610

Job	Truss	B15	Roof Special Girder	Qty	1	Ply	3	Job Reference (optional)	T26407430
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Builders FirstSource (Groveand, FL), Groveand, FL - 34736,

Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 Mittek Industries, Inc. Wed Dec 29 18:47:03

ID:0wRct0r6Wp9rZl5zsU4oz1y4alr-RtC7Psb70Hq3NSgPqnlBw3uITxbGKwVwCD0i7J4zJC7f

Vert: 20=-533 (F), 19=-533 (F), 16=-1404 (F), 14=-1406 (F), 24=-939 (F), 25=-533 (F), 26=-2624 (F), 27=-1404 (F), 28=-1406 (F), 29=-1406 (F), 30=-1406 (F), 31=-1406 (F), 32=-1410 (F)

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITTEK REFERENCE PAGE MIII-7473 rev. 5/19/2020 BEFORE USE.
 Design valid for use only with Mittek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse of trusses and truss systems, see **ANSI/TPI Quality Criteria, DSB-89 and BCSI Building Component** fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI Quality Criteria, DSB-89 and BCSI Building Component** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
2904837	CJ01	Jack-Open	22	1	

Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 MITek Industries, Inc. Wed Dec 29 18:47:03
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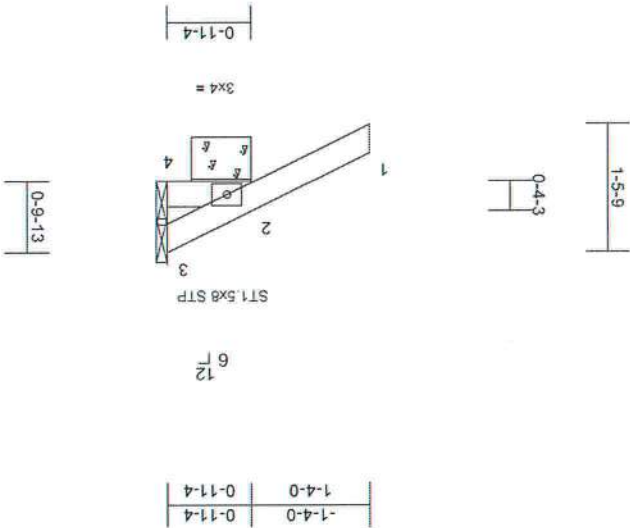


Plate Offsets (X, Y): [2:0-1-4,0-0-2]

Loading	Spacing	Code	Matrix-MP	DEFL	in	(loc)	l/defl	L/D	PLATES	Weight: 5 lb	FT = 20%
TCLL (roof)	20.0	Plate Grip DOL	1.25	0.19	0.00	7	>999	240	MT20	244/190	GRIP
TCDL	10.0	Lumber DOL	1.25	0.04	0.00	5	>999	240			
BCLL	0.0*	Rep Stress Incr	YES	0.00	0.00	4	n/a	n/a			
BCDL	10.0										

- LUMBER**
 TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2
- BRACING**
 TOP CHORD Structural wood sheathing directly applied or 0-1-4 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
- REACTIONS** (lb/size)
 2=175/0-8-0, 3=3/ Mechanical,
 4=17/ Mechanical
 Max Horiz 2=62 (LC 10)
 Max Uplift 2=-122 (LC 10), 3=-3 (LC 1), 4=-17 (LC 1)
 Max Grav 2=175 (LC 1), 3=12 (LC 6), 4=25 (LC 14)
- FORCES** (lb) - Maximum Compression/Maximum Tension
 TOP CHORD 1-2=0/36, 2-3=-91/36
 BOT CHORD 2-4=-40/95
- NOTES**
 (1) Wind: ASCE 7-16, V=140mph (3-second gust)
 Vasd=108mph; TC DL=4.2psf; BC DL=5.0psf; h=25ft;
 Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 (3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 (4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3'-06-00 tall by 2'-00-00 wide will fit between the bottom chord and any other members.
 (5) Refer to girder(s) for truss to truss connections.

LOAD CASE(S) Standard

- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 122 lb uplift at joint 2, 17 lb uplift at joint 4 and 3 lb uplift at joint 3.

This item has been electronically signed and sealed by O'Regan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.
 Philip J. O'Regan PE No.56126
 MITek USA, Inc. FL Cert 6634
 6904 Parke East Blvd, Tampa FL 33610
 Date:
 January 4, 2022

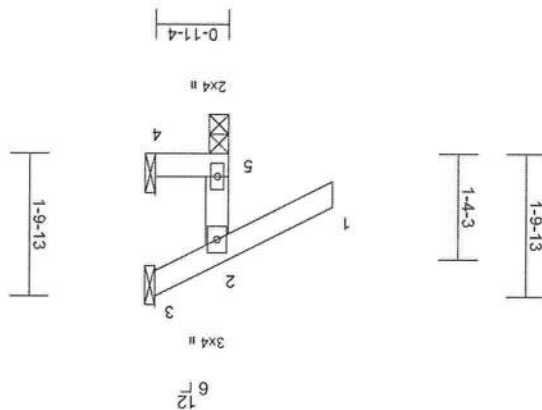
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MITek connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional guidance regarding the building design is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

Job	Truss	CJ01A	Jack-Open	Qty	4	Ply	1	Job Reference (optional)	T26407432
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Builder's FirstSource (Groveland, FL) - 34736.

Run: 8:43 S Oct 11 2021 Print: 8:430 S Oct 11 2021 MITek Industries, Inc. Wed Dec 29 18:47:04
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-1-4-0	0-11-4
1-4-0	0-11-4



Scale = 1/28.3

Loading	(psf)	Spacing	2-0-0	CSI	DEFLL	in	(loc)	l/defl	L/d	PLATES	MT20	Weight: 7 lb	FT = 20%
TCCL (roof)	20.0	Plate Grip DOL	1.25	TC	0.37	0.00	4-5	>999	240				
TCCL	10.0	Lumber DOL	1.25	BC	0.11	0.00	4-5	>999	180				
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	0.00	3	n/a	n/a				
BCDL	10.0	Code	FBC2020/TP12014	Matrix-MR	0.00								

6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 82 lb uplift at joint 5, 43 lb uplift at joint 4 and 46 lb uplift at joint 3.

LOAD CASE(S) Standard

BRACING

TOP CHORD Structural wood sheathing directly applied or

0-1-4 oc purlins, except end verticals.

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (lb/size)

3=46/ Mechanical, 4=7/

Mechanical, 5=204/0-3-0

Max Horiz 5=71 (LC 7)

Max Uplift 3=46 (LC 1), 4=43 (LC 7), 5=82

(LC 10)

Max Grav 3=22 (LC 6), 4=11 (LC 8), 5=204

(LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

2-5=-182/249, 1-2=0/40, 2-3=-41/28

BOT CHORD

4-5=0/0

NOTES

1) Wind: ASCE 7-16: Vu11=140mph (3-second gust)

Vasd=108mph; TCCL=4.2psf; BCDL=5.0psf; h=25ft;

Cal. II; Exp C; Enclosed; MWFRS (envelope) exterior

zone and C-C Exterior(2E) zone; end vertical left

exposed; porch left and right exposed; C-C for members

and forces & MWFRS for reactions shown; Lumber

DOL=1.60 plate grip DOL=1.60

Building Designer / Project engineer responsible for

verifying applied roof live load shown covers rain loading

requirements specific to the use of this truss component.

3) This truss has been designed for a 10.0 psf bottom

chord live load nonconcurrent with any other live loads.

4) * This truss has been designed for a live load of 20 Opst

on the bottom chord in all areas where a rectangle

3-06-00 tall by 2-00-00 wide will fit between the bottom

chord and any other members.

5) Refer to girder(s) for truss to truss connections.

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MILL-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MITEK connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse of trusses and truss systems. See ANSITP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



6904 Parke East Blvd
Tampa, FL 33610

January 4, 2022

Date:

6904 Parke East Blvd, Tampa FL 33610

MITek USA, Inc. FL Cert 6634

Philip J. O'Regan PE No. 56126

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signature must be verified

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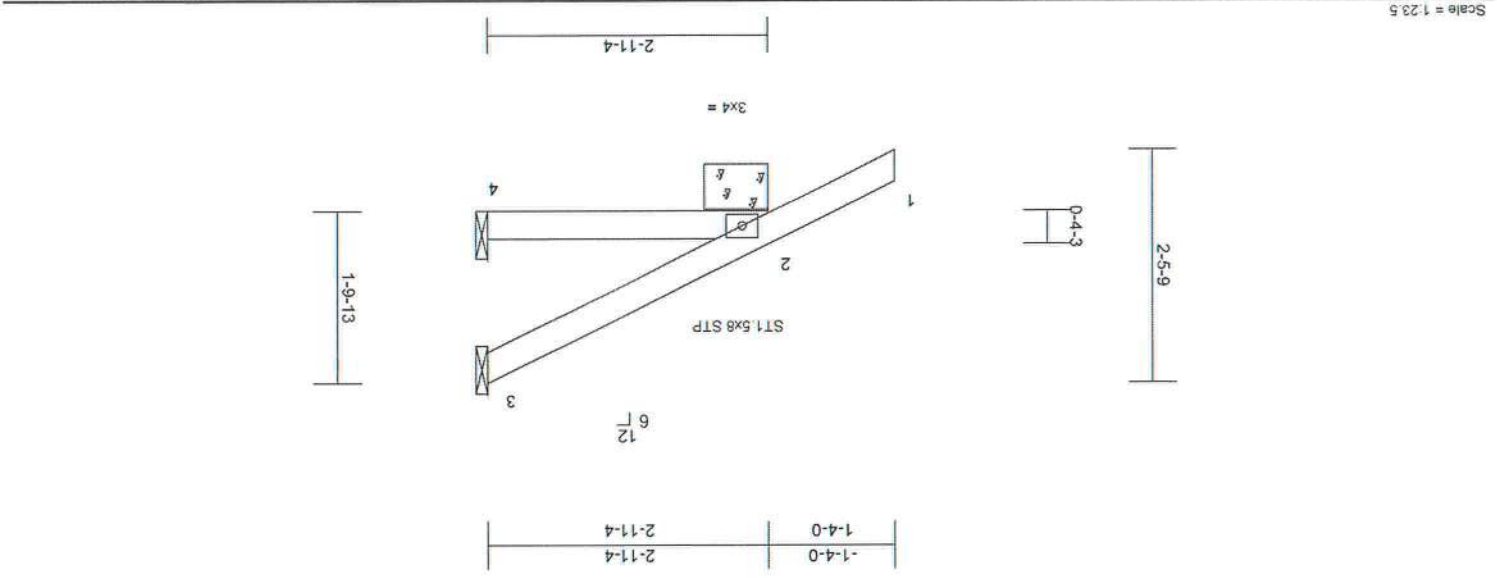
sealed by O'Regan, Philip, PE

electronically signed and

This item has been

Job	2904837	Truss	CJ03	Jack-Open	Qty	20	1	Ply	Job Reference (optional)	T26407433
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Builders FirstSource (Groveland, FL - 34736)
 Run: 8 43 S Oct 11 2021 Print: 8 430 S Oct 11 2021 Mitek Industries, Inc. Wed Dec 29 18:47:04
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Loading	(psf)	2-0-0	Spacing	FBC2020/PI2014	Matrix-MP	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	244/190	MT20	Weight: 12 lb	FT = 20%
	TCLL (roof)	20.0	Plate Grip DOL	1.25	0.19	Vert(LL)	0.01	4-7	>999	240						
	TCDL	10.0	Lumber DOL	1.25	0.16	Vert(CT)	-0.01	4-7	>999	240						
	BCLL	0.0	Rep Stress Incr	YES		Horz(CT)	0.00	3	n/a	n/a						
	BCDL	10.0														

LUMBER	TOP CHORD	2x4 SP No.2	6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 67 lb uplift at joint 3, 112 lb uplift at joint 2 and 29 lb uplift at joint 4.	LOAD CASE(S)	Standard
BRACING	TOP CHORD	Structural wood sheathing directly applied or			
	BOT CHORD	2-11-4 oc purlins.			
	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.			

REACTIONS	(lb/size)	2-21/4-0-8-0, 3=66/ Mechanical.	
Max Horiz	2=121 (LC 10)		
Max Uplift	2=-112 (LC 10), 3=-67 (LC 10).		
Max Grav	2=214 (LC 1), 3=66 (LC 1), 4=50 (LC 3)		
(lb) - Maximum Compression/Maximum Tension			
TOP CHORD	1-2=0/36, 2-3=-76/36		
BOT CHORD	2-4=-24/63		

- NOTES**
- 1) Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=108mph; TC DL=4.2psf; BC DL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C; Exterior(2E) zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3'-06-00 tall by 2'-00-00 wide will fit between the bottom chord and any other members.
 - 5) Refer to girder(s) for truss to truss connections.

Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
2904837	CJ03A	Jack-Open	4	1	T26407434

Builder's FirstSource (Groveland, FL), Groveland, FL - 34736.

Run: 8:43 S Oct 11 2021 Print: 8:430 S Oct 11 2021 Mitek Industries, Inc. Wed Dec 29 18:47:04
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Page: 1

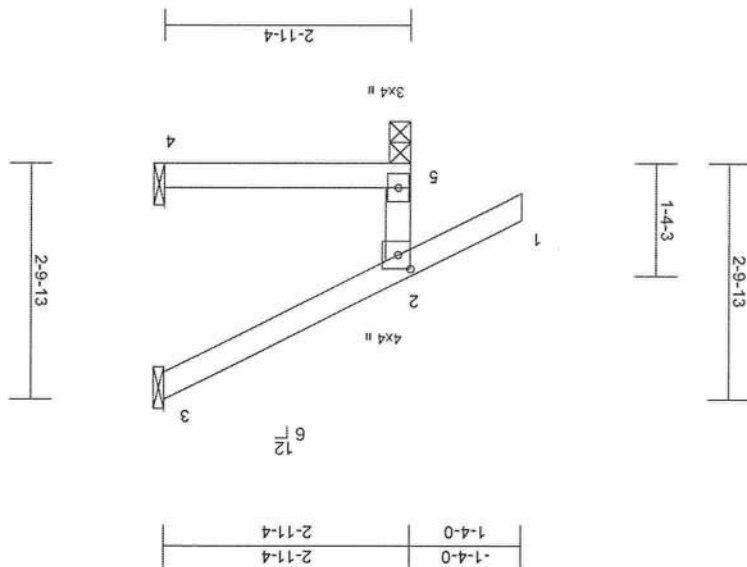


Plate Offsets (X, Y): [2:0-2-0-1-12]

Loading	Spacing	Code	FBC2020/TP12014	Matrix-MR	DEFL	in	(loc)	i/defl	L/d	PLATES	Weight: 13 lb	FT = 20%
TCLL (roof)	20.0	Lumber DOL	1.25	TC	0.56	0.02	4-5	>999	240	MT20	244/190	GRIP
TOP CHORD	2x4 SP No 2											
BOT CHORD	2x4 SP No 2											
WEBS	2x4 SP No 3											

- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 79 lb uplift at joint
- 5, 90 lb uplift at joint 3 and 44 lb uplift at joint 4.

LOAD CASE(S) Standard

BRACING
TOP CHORD Structural wood sheathing directly applied or 2-11-4 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS
(lb/size)
3=61/ Mechanical, 4=24/
Mechanical, 5=222/0-3-0
Max Horiz 5=107 (LC 7)
Max Uplift 3=-90 (LC 10), 4=-44 (LC 7), 5=-79
(LC 10)
Max Grav 3=61 (LC 1), 4=50 (LC 3), 5=222
(LC 1)
(lb) - Maximum Compression/Maximum
Tension
TOP CHORD 2-5=-191/252, 1-2=0/40, 2-3=-89/46
BOT CHORD 4-5=0/0

NOTES
1) Wind: ASCE 7-16; Vult=140mph (3-second gust)
Vasd=108mph; TC DL=4.2psf; BC DL=5.0psf; h=25ft;
Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior
zone and C-C Exterior(2E) zone; end vertical left
exposed; porch left and right exposed; C-C for members
and forces & MWFRS for reactions shown; Lumber
DOL=1.60 plate grip DOL=1.60
Building Designer / Project engineer responsible for
verifying applied roof live load shown covers rain loading
requirements specific to the use of this truss component.

- 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with Mitek connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse of trusses and truss systems. See **ANSI/APA Quality Criteria, DSB-89 and BCSI Building Component** fabrication, storage, delivery, erection and bracing of trusses and truss systems. See **ANSI/APA Quality Criteria, DSB-89 and BCSI Building Component** Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

Mitek
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Tampa, FL 33610

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Philip J. O'Regan PE No.58126
Mitek USA, Inc. FL Cert 8634
6904 Parke East Blvd, Tampa FL 33610
Date: January 4, 2022

Job	Truss	Truss Type	Qty	12	1	Job Reference (optional)
2904837	CJ05	Jack-Open			Py	T26407435

Builders FirstSource (Groveland, FL), Groveland, FL - 34736.

Run: 8:43 S Oct 11 2021 Print: 8:430 S Oct 11 2021 Mittek Industries, Inc. Wed Dec 29 18:47:04
ID: F90CP2XJLj6e5ZjMxBS4Qyem1u-RtC7PpSB70Hq3NSgPqnlBw3uITXbGKwVWCDo7J4zJC7f

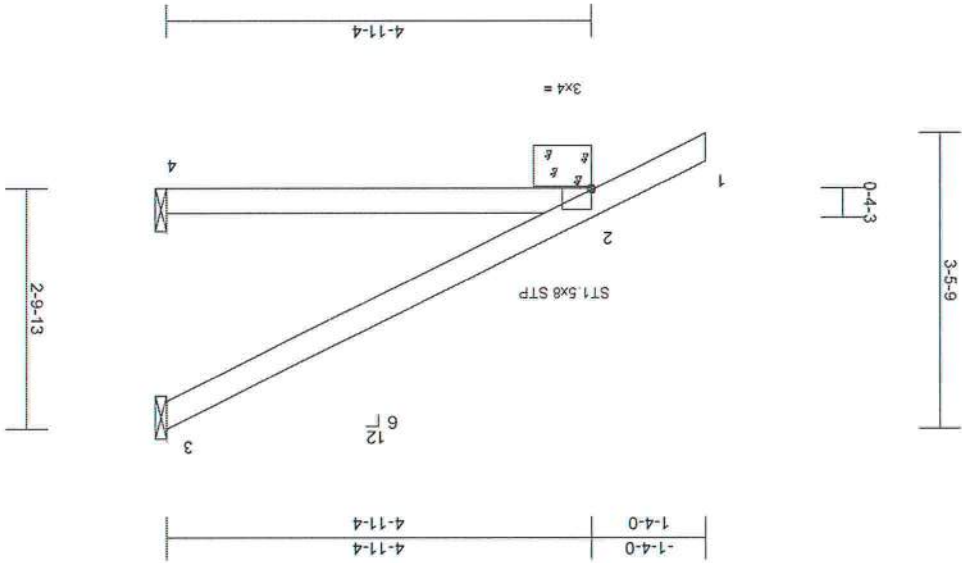


Plate Offsets (X, Y): [2:Edge,0-0-4]

Loading	Spacing	Code	Matrix-AS	DEFL	in (loc)	i/defl	L/d	PLATES	Weight: 18 lb	FT = 20%
TCLL (roof)	20.0	Plate Gnp DOL	1.25	0.58	0.13	4.7	>445	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	0.59	-0.05	4.7	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	0.00	Horz(CT)	0.00	3	n/a		
BCDL	10.0							n/a		

LUMBER

TOP CHORD 2x4 SP No.2

BOT CHORD 2x4 SP No.2

BRACING

TOP CHORD Structural wood sheathing directly applied.

BOT CHORD Rigid ceiling directly applied.

REACTIONS

(lb/size) 2=286/0-8-0, 3=126/ Mechanical,

4=59/ Mechanical

Max Horiz 2=182 (LC 10)

Max Uplift 2=132 (LC 10), 3=-129 (LC 10),

4=-51 (LC 7)

Max Grav 2=286 (LC 1), 3=126 (LC 1), 4=87

(LC 3)

(lb) - Maximum Compression/Maximum

Tension

1=2=0/36, 2=3=-143/62

2=4=-80/98

NOTES

1) Wind: ASCE 7-16; Vult=140mph (3-second gust)

Vasd=108mph; TC DL=4.2psf; BC DL=5.0psf; h=25ft;

Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior

zone and C-C Exterior(2E) zone: porch left and right

exposed; C-C for members and forces & MWFRS for

DOL=1.60

reactions shown; Lumber DOL=1.60 plate gnp

2) Building Designer / Project engineer responsible for

verifying applied roof live load shown covers rain loading

requirements specific to the use of this truss component.

3) This truss has been designed for a 10.0 psf bottom

chord live load nonconcurrent with any other live loads.

4) * This truss has been designed for a live load of 20.0psf

on the bottom chord in all areas where a rectangle

3'-06'-00 tall by 2'-00'-00 wide will fit between the bottom

chord and any other members.

5) Refer to girder(s) for truss to truss connections.

6) Provide mechanical connection (by others) of truss to

bearing plate capable of withstanding 129 lb uplift at

joint 3, 132 lb uplift at joint 2 and 51 lb uplift at joint 4.

7) This truss design requires that a minimum of 7/16"

chord and 1/2" gypsum sheathing be applied directly to the top

the bottom chord.

LOAD CASE(S) Standard

reactions shown; Lumber DOL=1.60 plate gnp

2) Building Designer / Project engineer responsible for

verifying applied roof live load shown covers rain loading

requirements specific to the use of this truss component.

3) This truss has been designed for a 10.0 psf bottom

chord live load nonconcurrent with any other live loads.

4) * This truss has been designed for a live load of 20.0psf

on the bottom chord in all areas where a rectangle

3'-06'-00 tall by 2'-00'-00 wide will fit between the bottom

chord and any other members.

5) Refer to girder(s) for truss to truss connections.

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITTEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with Mittek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see
ANSI/TPI Quality Criteria, DSB-89 and BCSI Building Component

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Tampa, FL 33610



Date:

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Philip J. O'Regan PE No.58126

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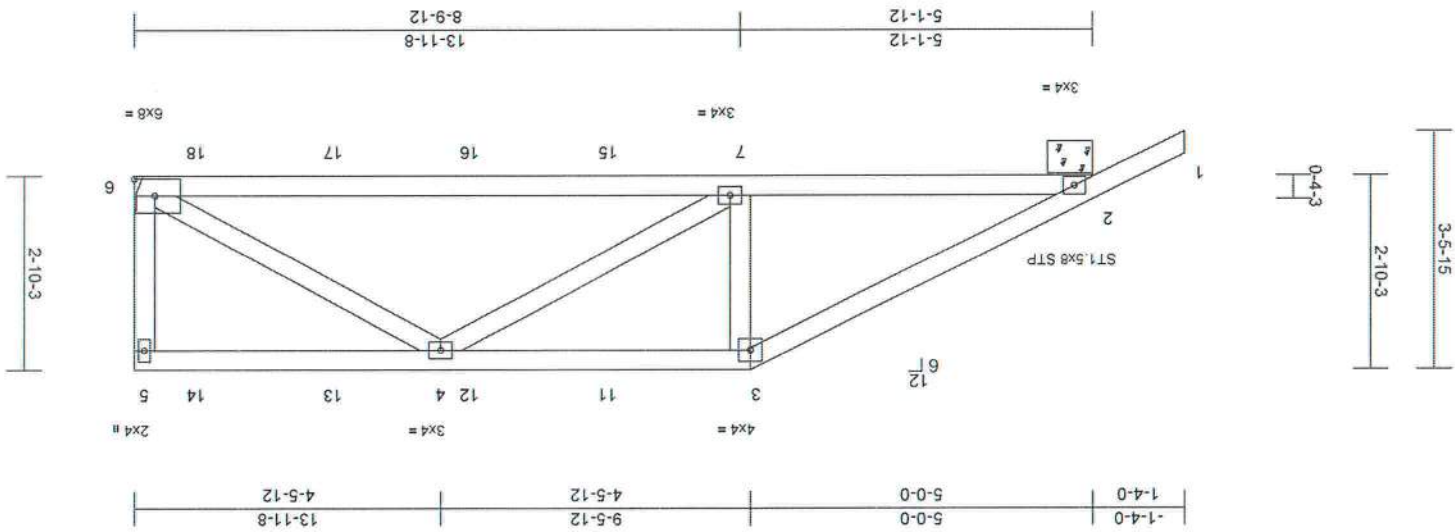
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Job	Truss	Truss Type	Qty	Pl	Job Reference (optional)
2904837	D01	Half Hip Girder	1	1	
					T26407437

Builders FirstSource (Groveland, FL), Groveland, FL - 34736.

Run: 8:43 S Oct 11 2021 Print: 8:43 S Oct 11 2021 Mittek Industries, Inc. Wed Dec 29 18:47:05
ID: UweJXJCWNTNRCtPzDzId4y6132-RtC7PFB70Hq3NSgPqnlw3uITXbGKwWCDoJ7J4zJ07f



Scale = 1:32.5

Loading	Spacing	Code	Matrix-MS	DEFLL	Wind(LL)	Weight: 66 lb	FT = 20%
TCDL (roof)	20.0	Plate Grip DOL	1.25	0.73	0.19	MT20	GRIP
TCDL	10.0	Lumber DOL	1.25	0.46	0.40	244	190
BCLL	0.0*	Rep Stress Incr	NO	0.60	0.02	n/a	
BCDL	10.0				0.11	240	

LUMBER	TOP CHORD	2x4 SP No.2	8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 572 lb uplift at joint 2 and 640 lb uplift at joint 6.
WEBS	2x4 SP No.3		9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s). 201 lb down and 242 lb up at 5'-0-0, 71 lb down and 113 lb up at 7'-0-12, 71 lb down and 108 lb up at 9'-0-12, and 71 lb down and 113 lb up at 11'-0-12, and 75 lb down and 115 lb up at 13'-0-12 on top chord, and 112 lb down and 57 lb up at 5'-0-0, 48 lb down and 11 lb up at 7'-0-12, 48 lb down and 11 lb up at 9'-0-12, and 48 lb down and 11 lb up at 11'-0-12, and 53 lb down and 10 lb up at 13'-0-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
BRACING	TOP CHORD	Structural wood sheathing directly applied or rigid ceiling directly applied or 8'-4-10 oc bracing.	10) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).
REACTIONS	Max Horiz	2=176 (LC 7)	LOAD CASE(S) Standard
Max Uplift	2=-572 (LC 8), 6=-640 (LC 5)		1) Dead + Roof Live (balanced): Lumber Increase=1.25
(lb/size)	2=910/0-8-0, 6=959/ Mechanical		Plate Increase=1.25
FORCES	Tension	2=-1532/913, 3-4=-1324/875, 4-5=-101/60, 5-6=-189/184	Uniform Loads (lb/ft)
(lb) - Maximum Compression/Maximum			Vert: 1-3=-60, 3-5=-60, 6-8=-20
TOP CHORD	2x4 SP No.2		Concentrated Loads (lb)
WEBS	2x4 SP No.3		Vert: 3=-154 (B), 7=-93 (B), 11=-67 (B), 12=-67 (B), 13=-67 (B), 14=-75 (B), 15=-39 (B), 16=-39 (B), 17=-39 (B), 18=-42 (B)
NOTES			
1) Unbalanced roof live loads have been considered for this design.			
2) Wind: S-SCE 7-16, Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf, BCDL=5.0psf, h=25ft; Cat. II; Exp C; Enclosed; M/WFRS (envelope) exterior			
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.			
4) Provide adequate drainage to prevent water ponding.			
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.			
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3'-06-00 tall by 2'-00-00 wide will fit between the bottom chord and any other members.			
7) Refer to girder(s) for truss to truss connections.			

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Philip J. O'Regan PE No.56126
Mittek USA, Inc. FL Cert 6634
6904 Parke East Blvd, Tampa FL 33610
Date:

January 4, 2022



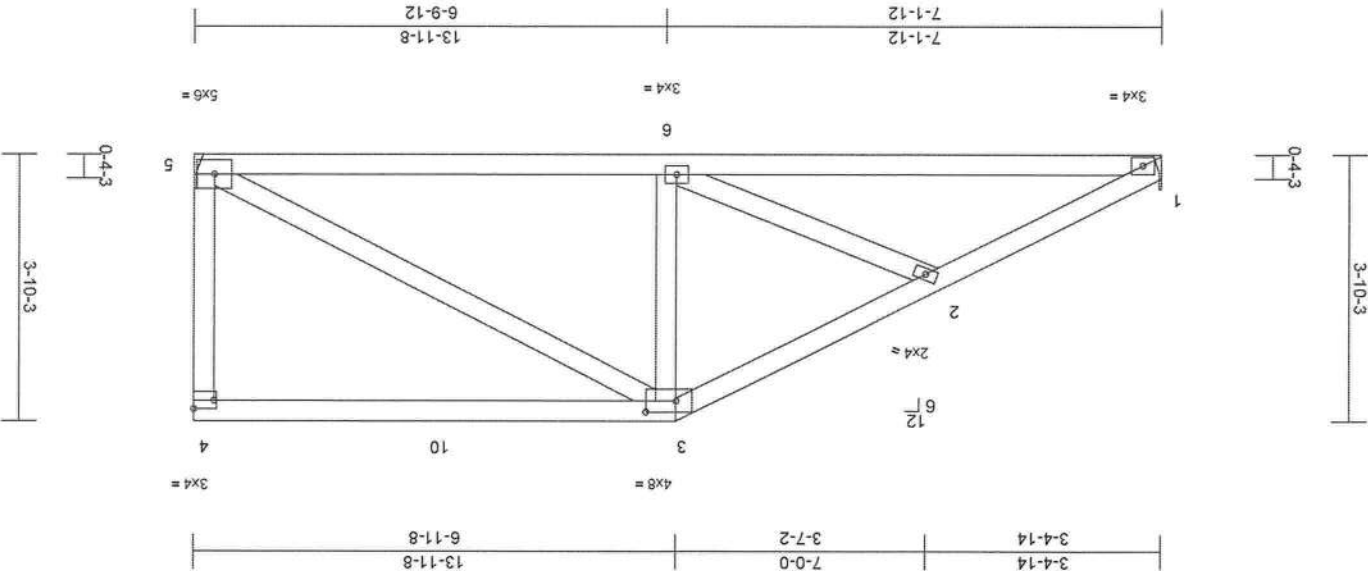
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Job	2904837	D02	Truss	Truss Type	Half Hip	Qty	1	Ply	1	Job Reference (optional)	T26407438
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Builders FirstSource (Groveand, FL), Groveand, FL - 34736.

Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 Mittek Industries, Inc. Wed Dec 29 18:47:05
ID: 7EMPP2PLK9uk2VN6gkzRZ6y612s-R7C7P5B70Hq3NSgPgnLbW3uITxbGKWVCDo17J4ZJC7



Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/d	PLATES	GRIP	Weight: 69 lb	FT = 20%
TCLL (roof)	20.0	Plate Gnp DOL	1.25	TC	0.58	-0.04	5-6	>999	360	MT20	244/190	
TCDL	10.0	Lumber DOL	1.25	BC	0.46	-0.09	6-9	>999	240			
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.67	0.02	5	n/a				
BCDL	10.0	Code	FBC2020/TP12014	Matrix-AS	Wind(LL)	0.03	6-9	>999	240			

- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3'-06-00 tall by 2'-00-00 wide will fit between the bottom chord and any other members.
- 7) Refer to girders for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 265 lb uplift at joint 1 and 277 lb uplift at joint 5.
- 9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard

BRACING	Structural wood sheathing directly applied, except end verticals.
BOT CHORD	Rigid ceiling directly applied.
REACTIONS	(lb/size) = 1=553/ Mechanical, 5=553/ Mechanical
Max Horiz	1=219 (LC 9)
Max Uplift	1=265 (LC 10), 5=277 (LC 7)
Max Grav	1=553 (LC 1), 5=553 (LC 21)
FORCES	(lb) - Maximum Compression/Maximum Tension
TOP CHORD	1-2=-927/690, 2-3=-703/504, 3-4=-132/136, 4-5=-205/226
BOT CHORD	1-6=-616/819, 5-6=-334/603
WEBS	3-6=-50/351, 3-5=-622/444, 2-6=-246/308

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=108mph; TCCL=4.2psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-0 to 3-2-11, Exterior(2R) 3-2-11 to 10-9-12, Exterior(2E) 10-9-12 to 13-9-12 zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITTEK REFERENCE PAGE M11-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with Mittek connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI Quality Criteria, DSB-89 and BCS1 Building Component** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20681.



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Tampa, FL 33610

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Philip J. O'Regan PE No.58126
Mittek USA, Inc. FL Cert 6834
6904 Parke East Blvd, Tampa FL 33610
Date: January 4, 2022

Job	Truss	D03	Half Hip	Qty	1	Job Reference (optional)	T26407439
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Builders FirstSource (Groveand, FL), Groveand, FL - 34736.
 Run: 8.43 S Oct 11 2021 Print: 8.43 S Oct 11 2021 Mitek Industries, Inc. Wed Dec 29 18:47:05
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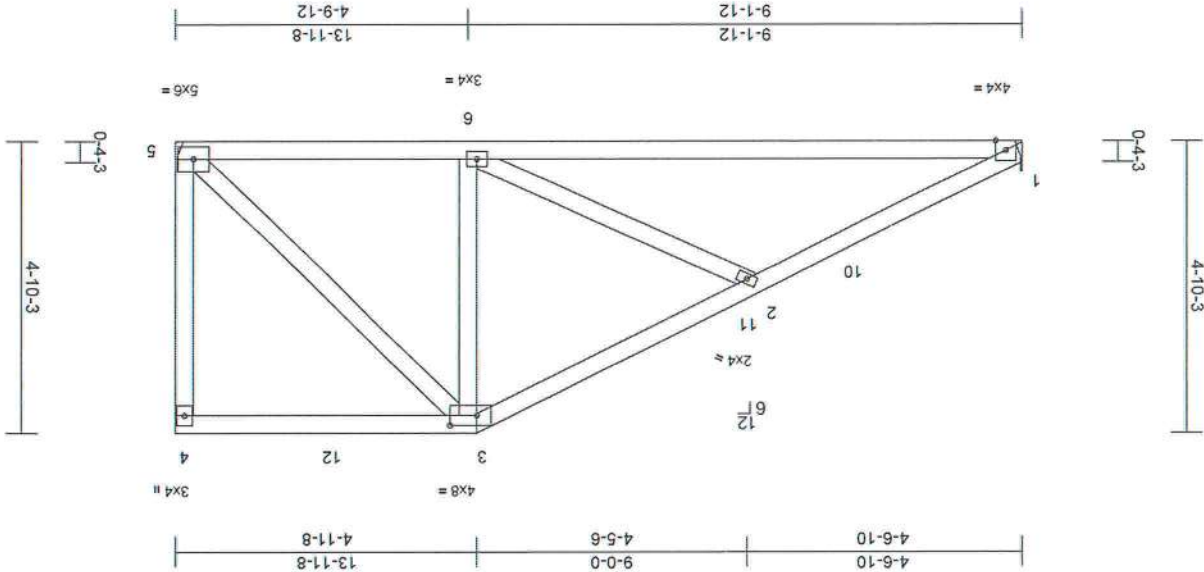


Plate Offsets (X, Y): [3:0-5-4,0-2-0]

Loading	Spacing	Code	Matrix-AS	DEFL	Wind(LL)	Horz(CT)	Vert(CT)	Vert(LL)	L/d	PLATES	Weight: 72 lb	FT = 20%
TCLL (roof)	20.0	Plate Grip DOL	1.25	0.46	0.60	0.45	-0.27	-0.13	6-9	MT20	244/190	
BCLL	0.0	Rep Stress Incr	YES						5	n/a		
BCDL	10.0	Lumber DOL	1.25						6-9	>605		
TOP CHORD	2x4 SP No.2								6-9	>999		
BOT CHORD	2x4 SP No.2								6-9	>999		
WEBS	2x4 SP No.3								5	n/a		
BRACING												
TOP CHORD	Structural wood sheathing directly applied, except end verticals.											
BOT CHORD	Rigid ceiling directly applied.											
REACTIONS	(lb/size)	1=553/ Mechanical, 5=553/ Mechanical										
Max Horiz	1=280 (LC 9)											
Max Uplift	1=262 (LC 10), 5=268 (LC 7)											
FORCES	(lb) - Maximum Compression/Maximum Tension											
TOP CHORD	1-2=-859/601, 2-3=-533/371, 3-4=-125/138,											
4-5=-137/158												
5-6=-520/757, 5-6=-236/426												
6-7=-108/408, 3-5=-569/377, 2-6=-376/399												
WEBS												
BOT CHORD	1-6=-520/757, 5-6=-236/426											

- 5) * This truss has been designed for a live load of 20 Dpsf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to joint 1 and 268 lb uplift at joint 5.
- 8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- LOAD CASE(S) Standard

- NOTES
- 1) Wind: ASCE 7-16, Vult=140mph (3-second gust) Vasd=108mph; TCDD=4.2psf; BCDD=5.0psf; h=25ft; Cat. II; Exp. C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior (1) 3-0-0 to 4-9-1, Exterior(2R) 4-9-1 to 10-9-12, Exterior (2E) 10-9-12 to 13-9-12 zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

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 6904 Parke East Blvd, Tampa FL 33610
 Date: January 4, 2022

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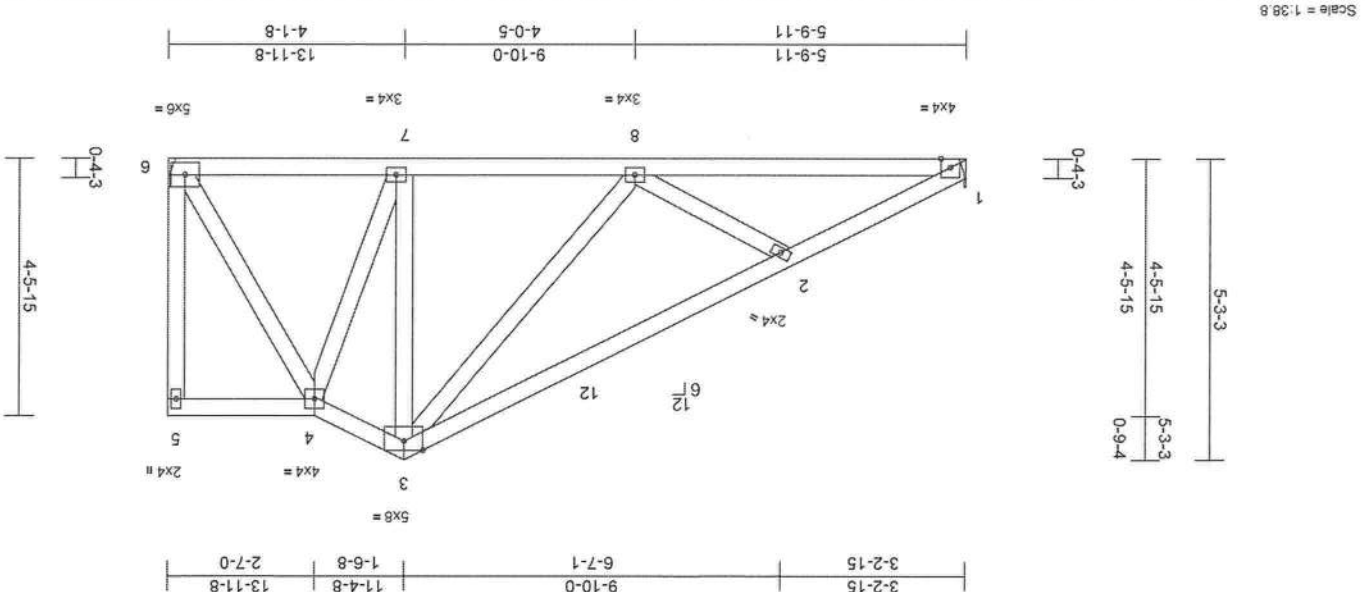
ANSI/TPI Quality Criteria, DSB-88 and BCS1 Building Component

6904 Parke East Blvd
 Tampa, FL 33610

Job	2904837	Truss	D04	Truss Type	Roof Special	Qty	1	Ply	1	Job Reference (optional)	T26407440
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Builders FirstSource (GroveLand, FL), GroveLand, FL - 34736.

Run: 8:43 S Oct 11 2021 Print: 8:430 S Oct 11 2021 Mitek Industries, Inc. Wed Dec 29 18:47:05
ID: Nn_5ew3NzbsDFjzBL2V7my6ltw-RtC7Psb70Hq3NsgPqnlBw3uITxbGKwWCD0i7J4zJC7



Loading	Spacing	Code	Matrix-AS	DEFLL	in	(loc)	l/defl	L/D	PLATES	GRIP	Weight: 83 lb	FT = 20%
TCLL (roof)	20.0	Plate Grip DOL	TC	0.49	-0.03	8-11	>999	360	MT20	244/190		
TCDL	10.0	Lumber DOL	BC	0.29	-0.06	8-11	>999	240				
BCLL	0.0*	Rep Stress Incr	WB	0.24	0.01	6	n/a	n/a				
BCDL	10.0				0.03	7-8	>999	240				

- 6) * This truss has been designed for a live load of 20 Dpst on the bottom chord in all areas where a rectangle 3'-06-00 tall by 2'-00-00 wide will fit between the bottom chord and any other members.
- 7) Refer to girders for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 249 lb uplift at joint 1 and 228 lb uplift at joint 6.
- 9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard

LUMBER	TOP CHORD	2x4 SP No.2
WEBS	2x4 SP No.3	
BRACING	TOP CHORD	Structural wood sheathing directly applied, except end verticals.
RECTIONS	BOT CHORD	Rigid ceiling directly applied.
		(lb/size) 1=553/ Mechanical, 6=553/ Mechanical
FORCES		Max Horiz 1=273 (LC 9)
		Max Uplift 1=249 (LC 10), 6=228 (LC 10)
		(lb) - Maximum Compression/Maximum Tension
TOP CHORD		1-2=-1039/782, 2-3=-749/525, 3-4=-394/392, 4-5=-114/122, 5-6=-88/115
BOT CHORD		1-8=-748/935, 7-8=-178/349, 6-7=-152/261, 4-6=-504/383, 3-8=-247/375, 3-7=-179/195, 4-7=-188/283, 2-8=-405/514

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16: Vult=140mph (3-second gust) Vasd=108mph; TCCL=4.2psf; BCCL=5.0psf; h=25ft; Cal. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-0 to 3-1-0, Interior (1) 3-1-0 to 6-10-0, Exterior(2R) 6-10-0 to 9-10-0, Exterior (2E) 9-10-0 to 13-9-12 zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

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Tampa, FL 33610

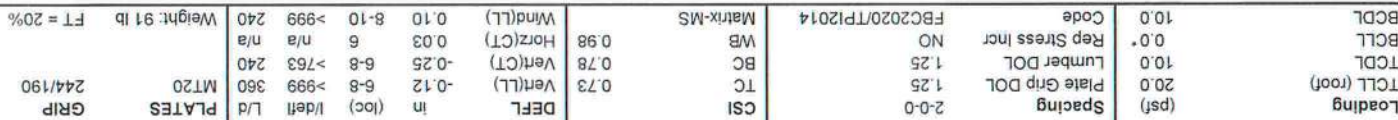
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Philip J. O'Regan PE No. 58126
Mitek USA, Inc. FL Cert 8634
6904 Parke East Blvd. Tampa FL 33610

Date: January 4, 2022

Page: 1Job Reference (optional)

Page: 1



(7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 709 lb uplift at joint 2 and 875 lb uplift at joint 6.

(8) Hanger(s) or other connection device(s) shall be provided sufficient to support connected load(s) 145

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Phillip J. O'Regan PE No.58126
Mitter USA, Inc. FL Cert 634
6904 Parke East Blvd, Tampa FL 33610

Date: January 4, 2022

Job	Truss	D06	Half Hip	Truss Type	Qty	Ply	Job Reference (optional)
2904837					1	1	T26407442

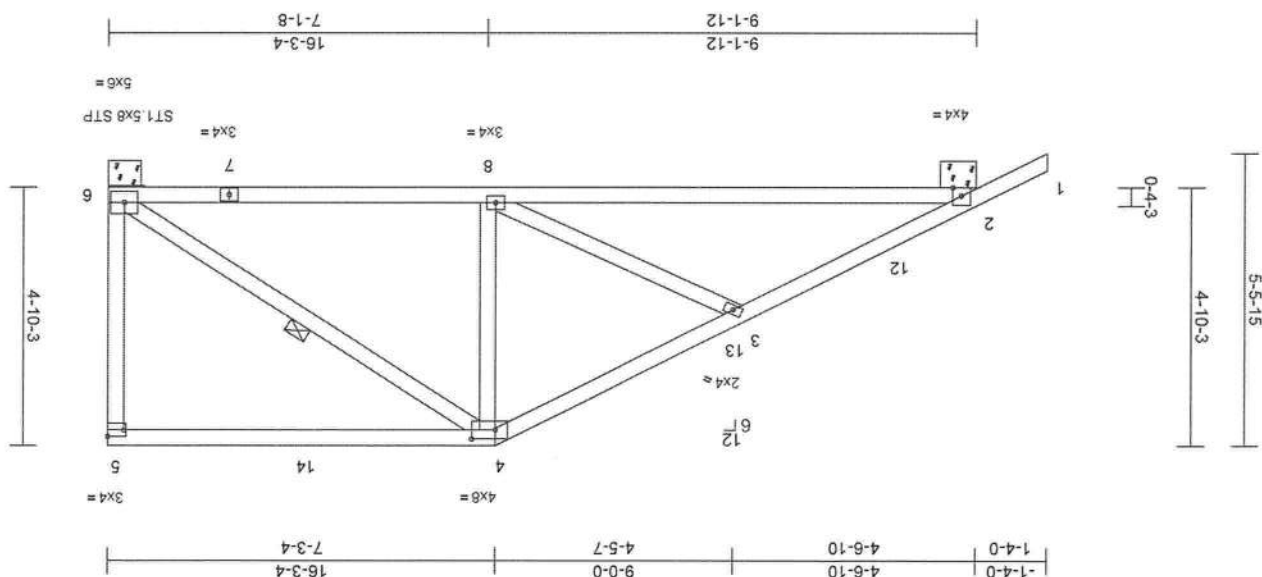


Plate Offsets (X, Y): [4:0-5-4,0-2-0], [5:Edge,0-1-8]

Loading	(psf)	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	360	MT20	Weight: 84 lb	FT = 20%
	TCDL (roof)	20.0	Plate Grip DOL	1.25	Vert(L)	-0.12	8-11	>999	240	n/a		
		10.0	Lumber DOL	1.25	BC	Vert(CT)	-0.26	8-11	>756	240		
		0.0 *	Rep Stress Incr	YES	WB	Horz(CT)	0.02	6	n/a	n/a		
BCDL	10.0	Code	FBC2020/TP12014	Matrix-AS	Wind(LL)	0.05	8-11	>999	240			

(6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangular

- 7) Provide mechanical connection (by others) of truss to chord and any other members.
- 8) Truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard

- (1) Unbalanced roof live loads have been considered for this design.
- (2) Wind: ASCE 7-16; Vult=140mph (3-second gust)
Vas=108mph; TCDF=4.2psf; BODL=0.9psf; h=25ft;
Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior
zone and C-C Exterior(2E); -1.4-0 to 1.8-0; interior (1)
1.8-0 to 4.9-1; Exterior(2R); 4.9-1 to 13.1-8; Exterior(2E)
1.3-1.8 to 16.1-8 zone; and vertical left and right
exposed; C-C for members and forces & MWFRS for
reactions shown; Lumber DOL=1.60 plate grip
DOL=1.60
- (3) Building Designer / Project engineer responsible for
verifying applied roof live load shown covers rain loading
requirements specific to the use of this truss component.
- (5) Provide adequate drainage to prevent water ponding
This truss has been designed for a 10.0 psf bottom
chord live load nonconcurrent with any other live loads.

This item has been electronically signed and sealed by O'Regan, Phillip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Phillip J. O'Regan PE No. 58126
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8904 Parkside East Blvd. Tampa FL 33610
Date:

January 4, 2022

Philip J. O'Regan PE No. 58126
Mittek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

January 4, 2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED LITERATURE REFERENCE PAGE M11-1743 Rev. 5/19/2020 BEFORE USE. Design valid for use only with MITtek connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building system. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible reversal of truss system. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI Quality Criteria, DSB-69 and BCS Building Code** available from Truss Plate Institute, 2570 Crain Highway, Suite 203 Waldorf, MD 20691

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Tampa, FL 36610

Job	2904837	Truss	D07	Truss Type	Half Hip	Qty	1	Ply	1	Job Reference (optional)	T26407443
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Builders FirstSource (Groveand, FL), Groveand, FL - 34736.

Run: 8:43 S Oct 11 2021 Print: 8:430 S Oct 11 2021 Mittek Industries, Inc. Wed Dec 29 18:47:06

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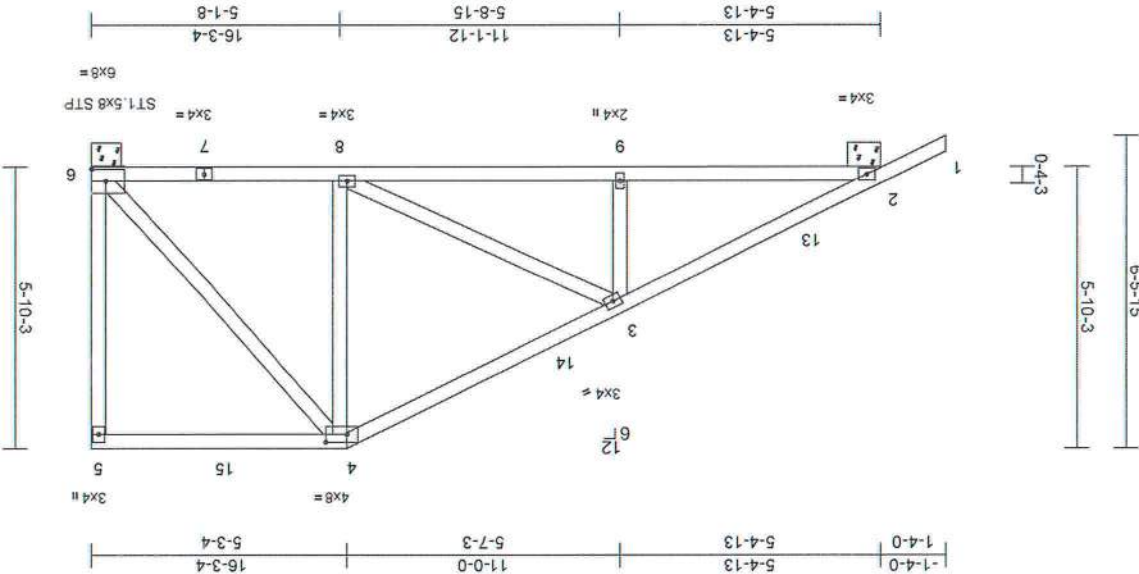


Plate Offsets (X, Y): [4:0-5-4,0-2-0]

Loading	Spacing	Code	FB C2020/TP12014	Matrix-AS	DEFL	Wind(LL)	Horz(CT)	Vert(CT)	Vert(LL)	In (loc)	l/dell	L/d	PLATES	GRIP	Weight: 92 lb	FT = 20%
BCDL	10.0	10.0	Rep Stress Incr	YES	0.65	0.02	0.02	-0.06	-0.03	8-9	>999	360	MT20	244/190		
BCLL	0.0	0.0	Lumber DOL	1.25	0.34	0.34	0.34	-0.06	-0.03	8-9	>999	240				
TCDL	10.0	10.0	Plate Grp DOL	1.25	0.46	0.46	0.46	-0.06	-0.03	8-9	>999	360				
TCLL (roof)	20.0	20.0														
LUMBER	2x4 SP No.2	2x4 SP No.2														
BOT CHORD	2x4 SP No.2	2x4 SP No.2														
WEBS	2x4 SP No.3	2x4 SP No.3														

BRACING Structural wood sheathing directly applied, except end verticals.

BOT CHORD Rigid ceiling directly applied.

REACTIONS (lb/size) 2=728/0-8-0, 6=642/0-7-4

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/36, 2-3=-1071/517, 3-4=-555/360, 4-5=-1471/159, 5-6=-150/156

BOT CHORD 2-9=-513/911, 8-9=-513/911, 6-8=-263/434

WEBS 3-9=0/231, 3-8=-538/396, 4-8=-120/406, 4-6=-620/370

NOTES 1) Unbalanced roof live loads have been considered for this design.

2) Wind: ASCE 7-16; Vult=140mph (3-second gust)

Vasd=108mph; TC DL=4.2psf; BC DL=5.0psf; h=25ft;

Cat. II; Exp C: Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -1-4-0 to 1-8-0, Interior (1)

1-8-0 to 6-9-1, Exterior(2E) 6-9-1 to 13-1-8, Exterior(2E)

13-1-8 to 16-1-8 zone; and vertical left and right exposed; C-C for members and forces & MWFRS for

DOL=1.60 reactions shown; Lumber DOL=1.60 plate grip

3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.

4) Provide adequate drainage to prevent water ponding.

5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 365 lb uplift at joint 2 and 309 lb uplift at joint 6.
- 8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- LOAD CASE(S)** Standard

NOTES

1) Unbalanced roof live loads have been considered for this design.

2) Wind: ASCE 7-16; Vult=140mph (3-second gust)

Vasd=108mph; TC DL=4.2psf; BC DL=5.0psf; h=25ft;

Cat. II; Exp C: Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -1-4-0 to 1-8-0, Interior (1)

1-8-0 to 6-9-1, Exterior(2E) 6-9-1 to 13-1-8, Exterior(2E)

13-1-8 to 16-1-8 zone; and vertical left and right exposed; C-C for members and forces & MWFRS for

DOL=1.60 reactions shown; Lumber DOL=1.60 plate grip

3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.

4) Provide adequate drainage to prevent water ponding.

5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

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Tampa, FL 33610

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Philip J. O'Regan PE No.58128
Mittek USA, Inc. FL Cert 6634
6904 Parke East Blvd, Tampa FL 33610
Date:

January 4, 2022

Job	Truss	Truss Type	Qty	1	2	Job Reference (optional)
2904837	D08	Half Hip Girder	Qty	1	Ply	T26407444

Builders FirstSource (Groveland, FL), Groveland, FL - 34736.

Run: 8:43 S Oct 11 2021 Print 8:430 S Oct 11 2021 Mittek Industries, Inc. Wed Dec 29 18:47:07
ID: 7WZtXg9a69JESu21RwYy6jYt-RtC7P5B70Hq3NSgPqnlbW3uITXbGKwVCDO7J4zJC7f

Page: 1

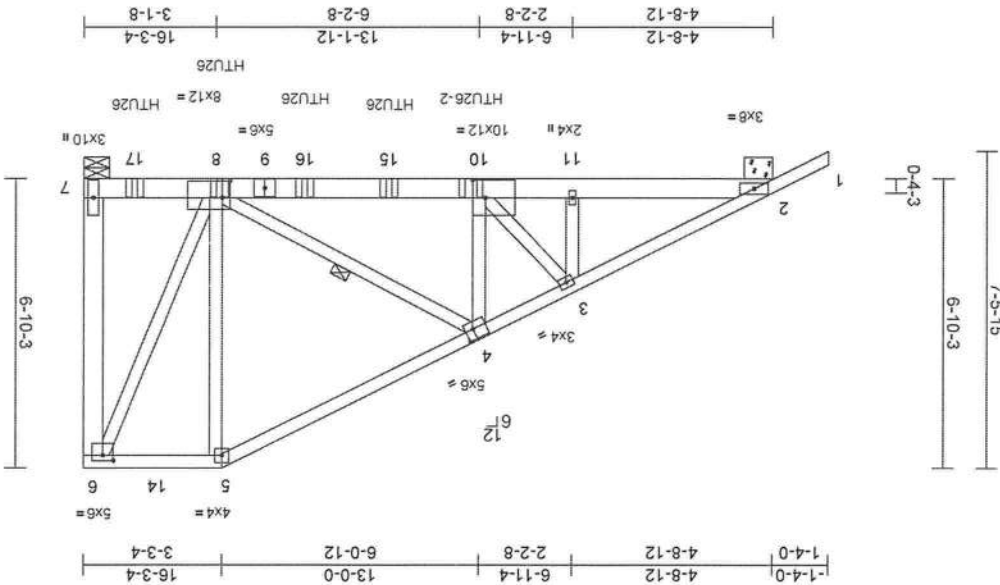


Plate Offsets (X, Y): [4:0-2-4-0-3-0], [6:0-3-0-0-1-8], [8:0-2-4-0-4-1-12], [10:0-3-8-0-5-0]

Loading	Spacing	Code	FBC2020/TP12014	Matrix-MS	Wind(LL)	DEFL	in	(loc)	l/defl	L/D	PLATES	GRIP	Weight: 243 lb	FT = 20%
TCLL (roof)	20.0	Plate Gnp DOL	1.25	TC	0.59	Vent(LL)	-0.13	8-10	> 999	360	MT20	244/190		
TCDL	10.0	Lumber DOL	1.25	BC	0.56	Vent(CT)	-0.26	8-10	> 730	240				
BCLL	0.0*	Rep Stress Incr	NO	WB	0.94	Horz(CT)	0.04	7	n/a	n/a				
BCDL	10.0							8-10	> 936	240				

LUMBER
2x4 SP No. 2
TOP CHORD
2x6 SP M 26
BOT CHORD
WEBS
2x4 SP No. 3 *Except 6-7:2x6 SP No. 2
8-6:2x4 SP No. 2

BRACING
TOP CHORD
Structural wood sheathing directly applied or
4-0-15 oc purlins, except end verticals.
BOT CHORD
Rigid ceiling directly applied or 10-0-0 oc
bracing.

REACTIONS
WEBS
1 Row at midpt 4-8
(lb/size) 2=3903/0-8-0, 7=6284/0-7-4
Max Horiz 2=420 (LC 5)
Max Uplift 2=-2205 (LC 8), 7=-3380 (LC 8)
Max Grav 2=3903 (LC 1), 7=6351 (LC 2)

FORCES
Tension
1-2=0/36, 2-3=-8048/4537, 3-5=-8452/4808,
5-6=-2576/1520, 6-7=-5769/3199
2-1=-4165/7155, 10-1=-4165/7155,
8-10=-4296/7462, 7-8=-137/114
5-8=-591/117, 6-8=-3461/6225,
4-8=-5635/3419, 3-11=-757/466,
3-10=-428/693, 4-10=-2819/4928

TOP CHORD
2-ply truss to be connected together with 10d
(0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0
oc, 2x6 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows
staggered at 0-6-0 oc.
Web connected as follows: 2x4 - 1 row at 0-9-0 oc,
Except member 4-10 2x4 - 2 rows staggered at 0-5-0 oc.

WEBS
2-ply truss to be connected together with 10d
(0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0
oc, 2x6 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows
staggered at 0-6-0 oc.
Web connected as follows: 2x4 - 1 row at 0-9-0 oc,
Except member 4-10 2x4 - 2 rows staggered at 0-5-0 oc.

NOTES
1) 2-ply truss to be connected together with 10d
(0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0
oc, 2x6 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows
staggered at 0-6-0 oc.
Web connected as follows: 2x4 - 1 row at 0-9-0 oc,
Except member 4-10 2x4 - 2 rows staggered at 0-5-0 oc.

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.25,
Plate Increase=1.25
Uniform Loads (lb/ft)
2) Fill all nail holes where hanger is in contact with lumber.
bottom chord.

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.25,
Plate Increase=1.25
Uniform Loads (lb/ft)
2) Fill all nail holes where hanger is in contact with lumber.
bottom chord.

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.25,
Plate Increase=1.25
Uniform Loads (lb/ft)
2) Fill all nail holes where hanger is in contact with lumber.
bottom chord.

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a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall
building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing
is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the
fabrication, storage, delivery, erection and bracing of trusses and truss systems, see
ANSI/TPI Quality Criteria, DSB-89 and BCS Building Component
available from Truss Plate Institute, 2570 Crain Highway, Suite 203 Waldorf, MD 20601



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Tampa, FL 33610

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Philip J. O'Regan PE No.58126
Mittek USA, Inc. FL Cert 6834
6904 Parke East Blvd, Tampa FL 33610
Date:
January 4, 2022

Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
2904837	EJ03	Jack-Open	4	1	

Builders FirstSource (Groveland, FL - 34736, Run: 8:43 S Oct 11 2021 Print 8:430 S Oct 11 2021 Mittek Industries, Inc. Wed Dec 29 18:47:07 ID: EALZPLlMBXyqhnh1tQENpwy6kj9-RfC7P5B70Hq3NSgPqnlBw3uITXbGKWfCDa7J4ZJG7I

Scale = 1/23.9
Plate Offsets (X, Y): [2:0-1-4, Edge]

Loading	Spacing	Code	Matrix-MP	DEFL	in (loc)	l/defl	L/d	PLATES	GRIP	Weight: 13 lb	FT = 20%
TCLL (roof)	20.0	Plate Grip DOL	1.25	0.19	4-7	>999	360	MT20	244/190		
TCDL	10.0	Lumber DOL	1.25	0.13	4-7	>999	240				
BCLL	0.0 *	Rep Stress Incr	YES	0.00	3	n/a	n/a				
BCDL	10.0				4-7	>999	240				

LUMBER	TOP CHORD	2x4 SP No.2	6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 80 lb uplift at joint 3 and 116 lb uplift at joint 2.
BRACING	TOP CHORD	2x4 SP No.2	
TOP CHORD	Structural wood sheathing directly applied or 3'-4-0 oc purlins.		
BOT CHORD	Rigid ceiling directly applied or 1'-0-0 oc bracing.		
REACTIONS	(lb/size) 2=227/0-8-0, 3=77/ Mechanical, 4=37/ Mechanical		
Max Horiz	2=133 (LC 10)		
Max Uplift	2=-116 (LC 10), 3=-80 (LC 10)		
Max Grav	2=227 (LC 1), 3=77 (LC 1), 4=58 (LC 3)		
FORCES	(lb) - Maximum Compression/Maximum Tension		
TOP CHORD	1-2=0/36, 2-3=-146/45		
BOT CHORD	2-4=-18/66		

NOTES

- Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=108mph; TC DL=4.2psf; BC DL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 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'-06-00 tall by 2'-00-00 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.

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Philip J. O'Regan PE No.58126
Mittek USA, Inc. FL Cert 6634
8904 Parke East Blvd, Tampa FL 33610
Date: January 4, 2022

6904 Parke East Blvd
Tampa, FL 33610

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITTEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional guidance regarding the is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

Job	Truss	Truss Type	Qty	1	Job Reference (optional)
2904837	EJ03A	Jack-Closed Girder	1	1	T26407446

Builders FirstSource (Groveand, FL), Groveand, FL - 34736.

Run: 8:43 S Oct 11 2021 Print: 8:430 S Oct 11 2021 Mitek Industries, Inc. Wed Dec 29 18:47:07
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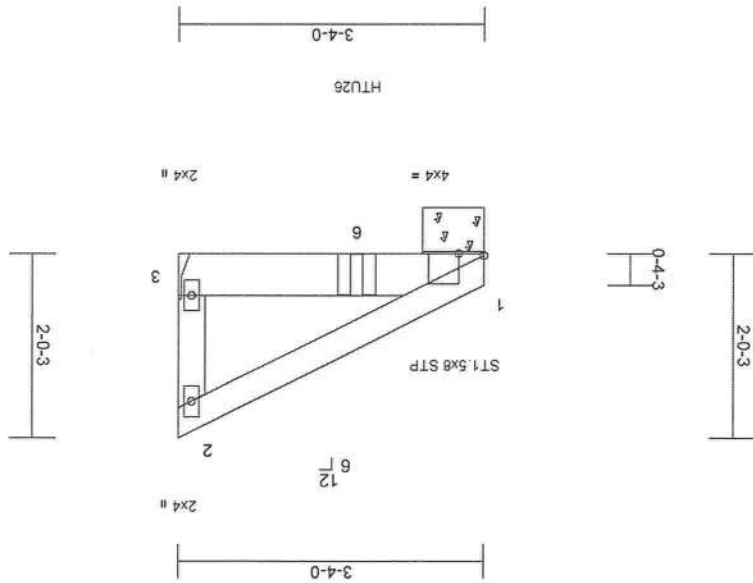


Plate Offsets (X, Y): [1:0:3-4, Edge]

Loading	Spacing	Code	CSI	DEFL	in	(loc)	l/defl	L/D	PLATES	GRIP	MT20	244/190	Weight: 15 lb	FT = 20%
TCLL (roof)	20.0	Plate Gnp DOL	1.25	0.25	-0.01	3-5	>999	360	MT20	GRIP	MT20	244/190		
TCDL	10.0	Lumber DOL	1.25	0.58	Vert(CT)	3-5	>999	240						
BCLL	0.0 *	Rep Stress Incr	NO	0.00	Horz(CT)	3	n/a	n/a						
BCDL	10.0				Wind(LL)	0.02	3-5	>999	240					

LUMBER

TOP CHORD

2x4 SP No.2

2x6 SP No.2

WEBS

2x4 SP No.3

BRACING

TOP CHORD

3'-4-0 oc

Structural wood sheathing directly applied or

rigid ceiling directly applied or 10'-0-0 oc

bracing.

(lb/size)

1=54/8-0-0, 3=45/ Mechanical

Max Horiz

1=97 (LC 5)

Max Uplift

1=251 (LC 8), 3=232 (LC 8)

(lb) - Maximum Compression/Maximum

Tension

1-2=-106/45, 2-3=-111/80

BOT CHORD

1-3=-40/35

NOTES

1) Wind: ASCE 7-16; Vult=140mph (3-second gust)

Vasd=108mph; TC DL=4.2psf; BC DL=5.0psf; h=25ft;

Cat. II; Exp C; Enclosed; MWFRS (envelope, exterior

zone; end vertical left and right exposed; Lumber

DOL=1.60 plate gnp DOL=1.60

Building Designer / Project engineer responsible for

verifying applied roof live load shown covers rain loading

requirements specific to the use of this truss component.

3) This truss has been designed for a 10.0 psf bottom

chord live load nonconcurrent with any other live loads.

4) * This truss has been designed for a live load of 20.0psf

on the bottom chord in all areas where a rectangle

3'-0'-0-0 tall by 2'-0'-0-0 wide will fit between the bottom

chord and any other members.

5) Refer to girder(s) for truss to truss connections.

6) Provide mechanical connection (by others) of truss to

bearing plate capable of withstanding 251 lb uplift at

joint 1 and 232 lb uplift at joint 3.

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITTEK REFERENCE PAGE MIII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with Mitek's connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see
ANSI/TPI Quality Criteria, DSB-89 and BCSI Building Component



6904 Parke East Blvd
Tampa, FL 33610

January 4, 2022

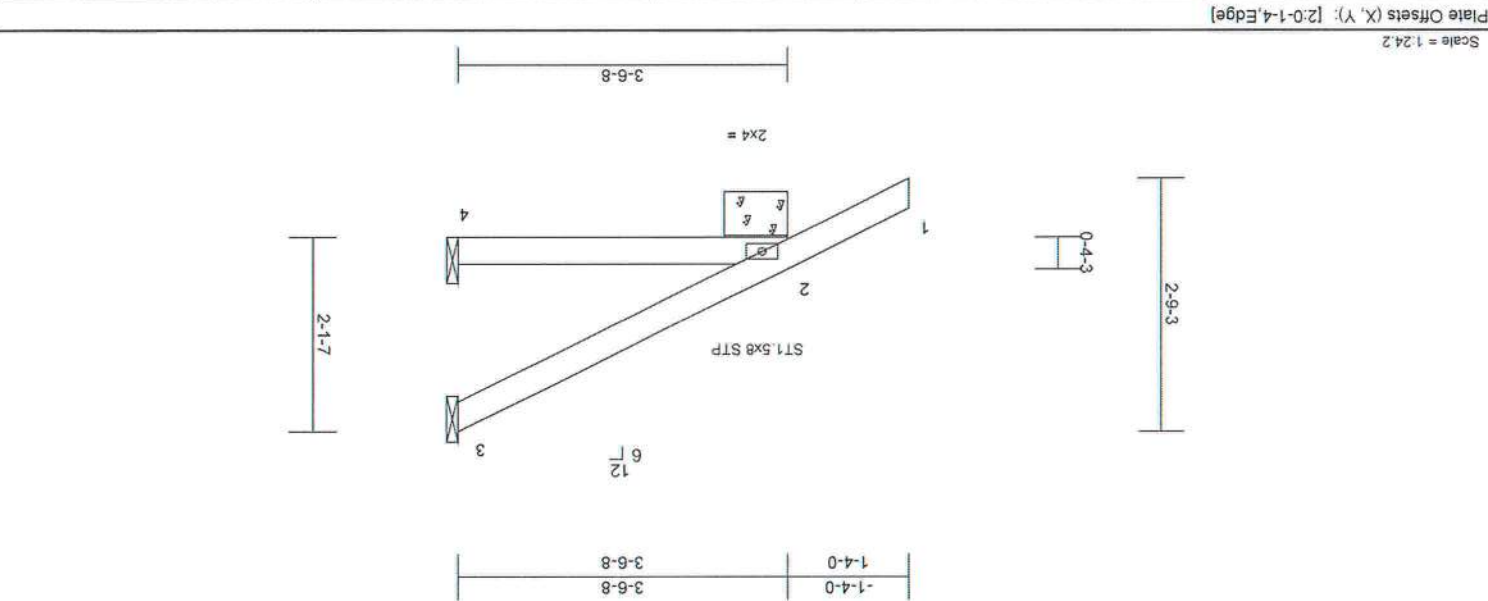
Date:

Philip J. O'Regan PE No.58126
Mitek USA, Inc. FL Cert 6634
6904 Parke East Blvd, Tampa FL 33610

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Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
2904837	EJ03B	Jack-Open	1	1	T26407447

Builders FirstSource (Groveand, FL), Groveand, FL - 34736, Run: 8.43 S Oct 11 2021 Print 8.430 S Oct 11 2021 Mittek Industries, Inc. Wed Dec 29 18:47:07 ID:oc1u1yrd400VmfPp1uHh16EykT3-RIC7P5B70Hq3NSgPqnlBw3uITXbGKVVwCDoITJ4zJCx



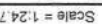
LOADING	Spacing	2'-0-0	CSI	DEFL	in	(loc)	i/defl	L/d	PLATES	MT20	244/190	GRIP
TCLL (roof)	Plate Grip DOL	1.25	TC	0.19	-0.01	4-7	>999	360				
TCDL	Lumber DOL	1.25	BC	0.14	-0.01	4-7	>999	240				
BCLL	Rep Stress Incr	YES	WB	0.00	0.00	3	n/a	n/a				
BCDL	Code	10.0	Matlx-MP	Wind(LL)	0.01	4-7	>999	240	Weight: 14 lb	FT = 20%		

- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 85 lb uplift at joint 3, 118 lb uplift at joint 2 and 1 lb uplift at joint 4.
- LUMBER**
 TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2
- BRACING**
 TOP CHORD Structural wood sheathing directly applied or 3'-6-8 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10'-0-0 oc bracing.
- REACTIONS** (lb/size)
 2=234/0-8-0, 3=83/ Mechanical, 4=40/ Mechanical
 Max Horiz 2=140 (LC 10)
 Max Uplift 2=-118 (LC 10), 3=-86 (LC 10), 4=-1 (LC 10)
 Max Grav 2=234 (LC 1), 3=83 (LC 1), 4=62 (LC 3)
- FORCES** (lb) - Maximum Compression/Maximum Tension
 TOP CHORD 1-2=0/36, 2-3=-150/48
 BOT CHORD 2-4=-15/91
- NOTES**
 1) Wind: ASCE 7-16; Vult=140mph (3-second gust)
 Vasd=108mph; TC DL=4.2psf; BC DL=5.0psf; h=25ft;
 Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone; end vertical left and right exposed; C-C for members and forces & MWFRS
 for reactions shown; Lumber DOL=1.60 plate grip
 Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 3) This truss has been designed for a 10' 0" psf bottom chord live load nonconcurrent with any other live loads.
 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3'-06-00 tall by 2'-00-00 wide will fit between the bottom chord and any other members.
 5) Refer to girder(s) for truss to truss connections.

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Date: January 4, 2022

Page: 1

Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
2904837	EJ05	Jack-Open	7	1	

Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 Mitek Industries, Inc. Wed Dec 29 18:47:08
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Builders FirstSource (Groveand, FL), Groveand, FL - 34795.

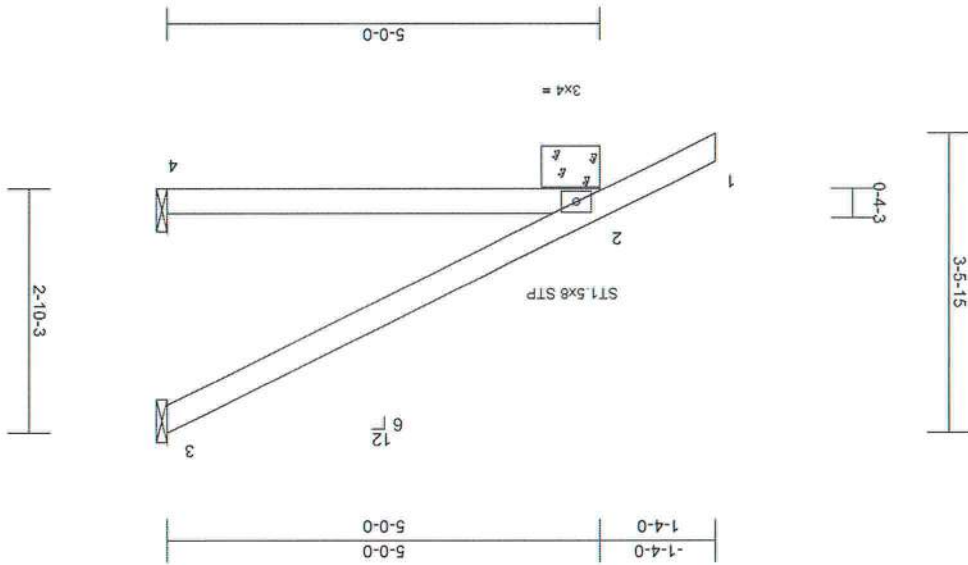


Plate Offsets (X, Y): [2:0-1/4,0-0-2]

Loading	Spacing	Code	FB2020/TP12014	Matrix-AS	DEFL	in (loc)	l/dell	L/d	PLATES	GRIP	Weight: 18 lb	FT = 20%
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.41	-0.02	4-7	>999	360	MT20	244/190	
TCDL	10.0	Lumber DOL	1.25	BC	0.32	-0.05	4-7	>999	240			
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	0.00	3	n/a				
BCDL	10.0								240			

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2

BRACING
TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied.

REACTIONS (lb/size)
2=288/0-8-0, 3=127/ Mechanical.
4=59/ Mechanical

FORCES (lb) - Maximum Compression/Maximum
Max Horiz 2=184 (LC 10)
Max Uplift 2=-133 (LC 10), 3=-131 (LC 10),
4=-1 (LC 10)
Max Grav 2=288 (LC 1), 3=127 (LC 1), 4=88
(LC 3)

TOP CHORD 1-2=0/36, 2-3=-176/69
Tension
BOT CHORD 2-4=-19/124

NOTES
1) Wind: ASCE 7-16; Vult=140mph (3-second gust)
Vasd=108mph; TC DL=4.2psf; BC DL=5.0psf; h=25ft;
Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior
zone and C-C Exterior(2E) zone; end vertical left and
right exposed; C-C for members and forces & MWFRS
for reactions shown; Lumber DOL=1.60 plate grip
DOL=1.60

2) Building Designer / Project engineer responsible for
verifying applied roof live load shown covers rain loading
requirements specific to the use of this truss component.

3) This truss has been designed for a 10.0 psf bottom
chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf
on the bottom chord in all areas where a rectangle
3'-06-00 tall by 2'-00-00 wide will fit between the bottom
chord and any other members.

5) Refer to girder(s) for truss to truss connections.
chord and any other members.

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MILL-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MITEK's connectors. This design is based upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see
ANSI/TPI Quality Criteria, DSB-89 and BCS Building Component
available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



6904 Parke East Blvd
Tampa, FL 33610

Date:

6904 Parke East Blvd, Tampa FL 33610

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Phillip J. O'Regan PE No.58126

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January 4, 2022

Job	Truss	EJ05B	Jack-Open	Qty	4	Ply	1	Job Reference (optional)	T26407450
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Builders FirstSource (Groveand, FL), Groveand, FL - 34736.

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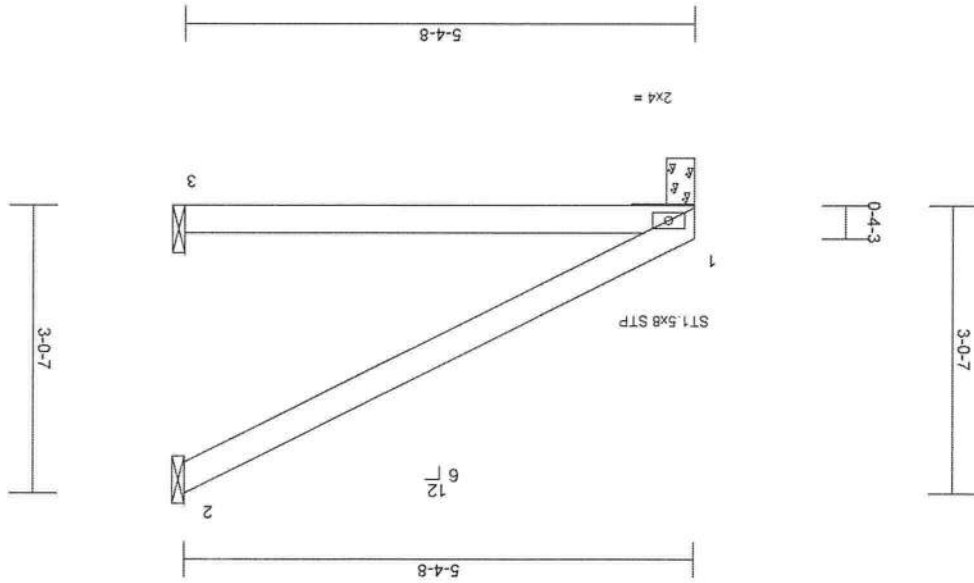


Plate Offsets (X, Y): [1:0-1-4, Edge]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/d	L/d	PLATES	GRIP	244/190	Weight: 17 lb	FT = 20%
	TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.77	3-6	>314	240	MT20				
	TCDL	10.0	Lumber DOL	1.25	BC	0.77	3-6	>768	240					
	BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	-0.08	n/a	n/a					
	BCDL	10.0					-0.01	2	n/a					
		Code	FBC2020/TP12014	Matrix-AS										

LUMBER

TOP CHORD 2x4 SP No.2

BOT CHORD 2x4 SP No.2

BRACING

TOP CHORD Structural wood sheathing directly applied.

BOT CHORD Rigid ceiling directly applied.

REACTIONS

(lb/size) 1=213/0-3-8, 2=144/ Mechanical,

3=69/ Mechanical

Max Horiz 1=161 (LC 10)

Max Uplift 1=101 (LC 7), 2=-147 (LC 10),

3=-58 (LC 7)

Max Grav 1=213 (LC 1), 2=144 (LC 1), 3=97

(LC 3)

FORCES

(lb) - Maximum Compression/Maximum

Tension

1=2=-161/162

BOT CHORD 1-3=-253/85

NOTES

1) Wind: ASCE 7-16; Vult=140mph (3-second gust)

Vasd=108mph; TCDL=4.2psf; BCDL=5.0psf; h=25ft;

Cal II; Exp C: Enclosed; MWFRS (envelope) exterior

zone and C-C Exterior(2E) zone; porch left and right

exposed; C-C for members and forces & MWFRS for

reactions shown; Lumber DOL=1.60 plate gnp

DOL=1.60

Building Designer / Project engineer responsible for

verifying applied roof live load shown covers rain loading

requirements specific to the use of this truss component.

3) This truss has been designed for a 10.0 psf bottom

chord live load nonconcurrent with any other live loads.

4) * This truss has been designed for a live load of 20.0psf

on the bottom chord in all areas where a rectangle

3-06-00 tall by 2-00-00 wide will fit between the bottom

chord and any other members.

5) Refer to girder(s) for truss to truss connections.

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITTEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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ANSI/TPI Quality Criteria, DSB-89 and BCS Building Component



6904 Parke East Blvd.
Tampa, FL 33610

January 4, 2022

Date:

6904 Parke East Blvd. Tampa FL 33610

Mitek USA, Inc. FL Cont 6634

Philip J. O'Regan PE No. 68126

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Job	Truss	Truss Type	Qty	Pl	Job Reference (optional)
2904837	EJ07	Jack-Open	35	1	

Builders FirstSource (Groveand, FL), Groveand, FL - 34736.

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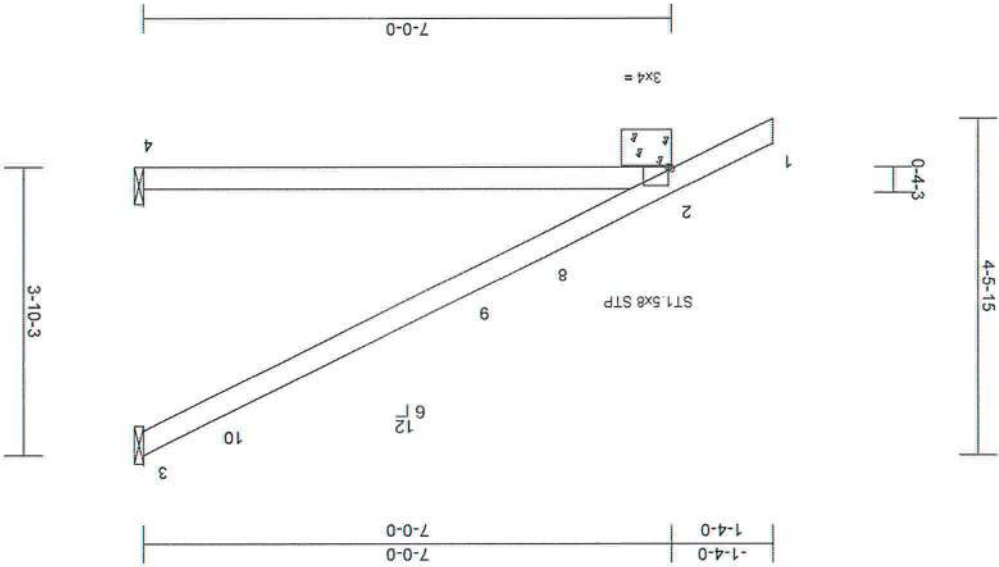


Plate Offsets (X, Y): [2:0-0-8,Edge]

Loading	Spacing	Code	Matrix-AS	DEFL	in (loc)	l/defl	L/D	PLATES	Weight: 24 lb	FT = 20%
TCLL (roof)	20.0	Plate Gnp DOL	TC	-0.09	4-7	>969	360	MT20	244/190	
TCDL	10.0	Lumber DOL	BC	-0.21	4-7	>395	240			
BCLL	0.0*	Rep Stress Incr	WB	-0.01	3	n/a	n/a			
BCDL	10.0	FBC2020/TP12014		0.16	4-7	>519	240			

- 6) Provide mechanical connection (by others) of truss to joint 3 and 160 lb uplift at joint 2
- 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- LOAD CASE(S)** Standard

- REACTIONS** (lb/size) 2=365/0-8-0, 3=186/ Mechanical, 4=83/ Mechanical
- BRACING** TOP CHORD Rigid ceiling directly applied.
- TOP CHORD** 2x4 SP No.2
- BOT CHORD** 2x4 SP No.2
- FORCES** (lb) - Maximum Compression/Maximum Tension
- TOP CHORD 1-2=0/36, 2-3=-215/91
- BOT CHORD 2-4=-53/154

NOTES

- 1) Wind: ASCE 7-16: Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf, BCDL=5.0psf; h=25ft;
- Cal. II: Exp C: Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -1-4-0 to 1-8-0, Interior (1) 1-8-0 to 2-8-5, Exterior(2R) 2-8-5 to 6-1-1-4 zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate gnp DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component
- 3) 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'-06-00 tall by 2'-00-00 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.



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Philip J. O'Regan PE No.58126
6904 Parke East Blvd, Tampa FL 33610

Date: January 4, 2022

Job	Truss	Truss Type	Qty	1	2	Job Reference (optional)
2904837	EJ07C	Jack-Open	2	Qty	1	126407453

Builders FirstSource (Groveland, FL), Groveland, FL - 34736.

Run: 8:43 S Oct 11 2021 Print 8:430 S Oct 11 2021 Mittek Industries, Inc. Wed Dec 29 18:47:08
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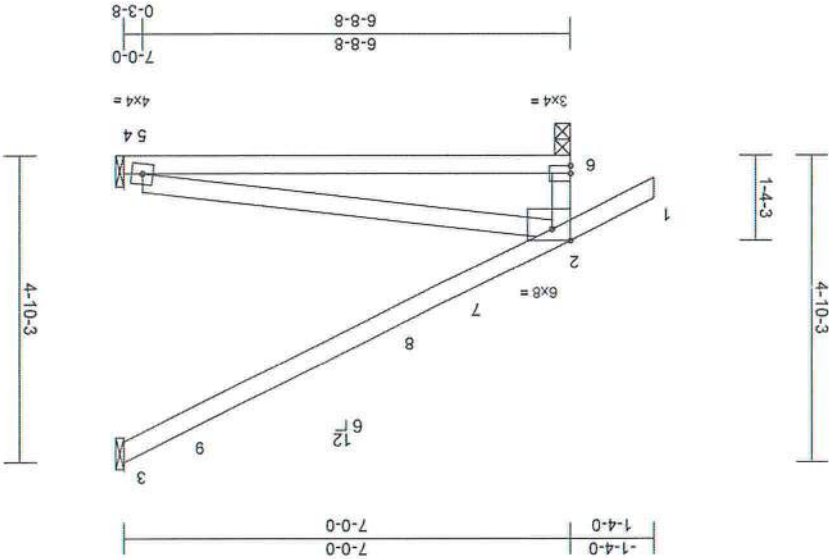


Plate Offsets (X, Y): [2:0-3-8,Edge]

Loading	Spacing	Code	FBG2020/TP12014	Matrix-AS	DEFL	in (loc)	i/defl	L/d	PLATES	Weight: 35 lb	FT = 20%
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	Vert(LL)	-0.08	5-6	>993	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	Vert(CT)	-0.16	5-6	>497	240		
BCLL	0.0	Rep Stress Incr	YES	WB	Horz(CT)	-0.01	3	n/a	n/a		
BCDL	10.0				Wind(LL)	0.01	5-6	>999	240		

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

BRACING
 Structural wood sheathing directly applied, except end verticals.
 BOT CHORD Rigid ceiling directly applied.

REACTIONS (lb/size)
 3=163/ Mechanical, 4=99/ Mechanical, 6=370/0-3-0
 Max Horiz 6=212 (LC 10)
 Max Uplift 3=165 (LC 10), 4=37 (LC 10), 6=131 (LC 10)
 Max Grav 3=163 (LC 1), 4=147 (LC 3), 6=370 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
 TOP CHORD 2-6=-289/314, 1-2=-0/40, 2-3=-161/78
 BOT CHORD 5-6=-712/491, 4-5=-0/0
 WEBS 2-5=-498/722

NOTES

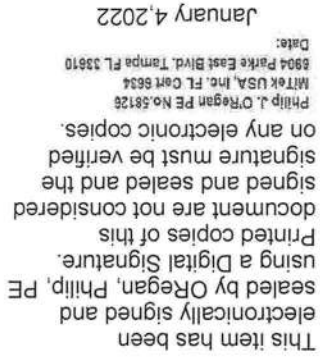
- 1) Wind: ASCE 7-16; Vult=140mph (3-second gust)
Vasd=108mph; TC DL=4.2psf; BC DL=5.0psf; h=25ft;
Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -1-4-0 to 1-8-0, Interior (1) 1-8-0 to 2-8-5, Exterior(2R) 2-8-5 to 6-1-1-4 zone; end forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3'-06-00 tall by 2'-00-00 wide will fit between the bottom chord and any other members.
Refer to girder(s) for truss to truss connections.
Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 131 lb uplift at joint 6, 165 lb uplift at joint 3 and 37 lb uplift at joint 4.
This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- LOAD CASE(S) Standard

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Philip J. O'Regan PE No.58126
Mittek USA, Inc. FL Cert 6634
6904 Parke East Blvd, Tampa FL 33610
Date: January 4, 2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITTEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE a truss system. Before use, the building designer must verify the applicability of design parameters shown, and is for an individual building component, not building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional guidance regarding the design is always required for stability and to prevent collapse of trusses and truss systems, see **ANSI/TPI Quality Criteria, DSB-89 and BCSI Building Component** fabrication, storage, delivery, erection and bracing of trusses and truss systems, see available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

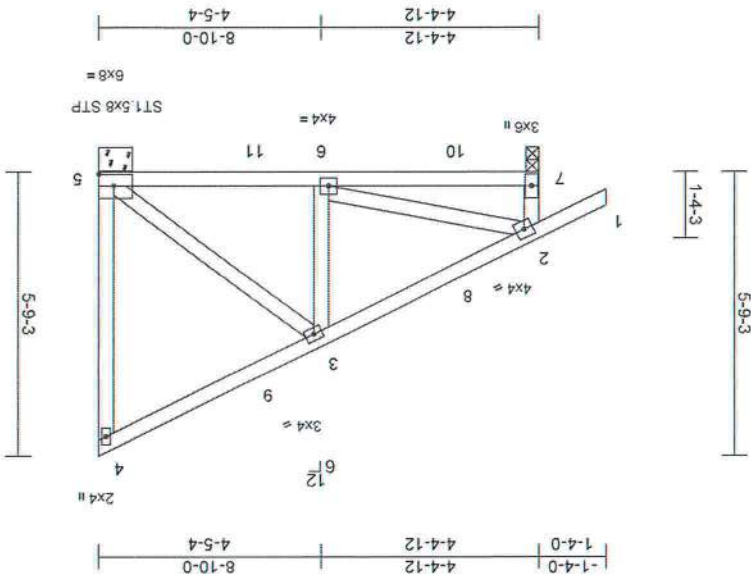


Page 1

Job	Truss	Truss Type	Qty	Pl	Job Reference (optional)
2904837	G02	Monopitch	2	1	T26407455

Builders FirstSource (Groveland, FL), Groveland, FL - 34736.

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Scale = 1/4\"/>

Loading	Spacing	Code	Matrix-AS	DEFL	in (loc)	l/defl	L/d	PLATES	GRIP	Weight: 57 lb	FT = 20%
TCLL (roof)	20.0	Plate Gnp DOL	1.25	0.28	5-6	>999	240	MT20	244/190		
TCDL	10.0	Lumber DOL	1.25	0.27	5-6	>999	240				
BCLL	0.0*	Rep Stress Incr	YES	0.25	5-6	>999	240				
BCDL	10.0						n/a				

LUMBER

TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.3 *Except 7-2:2x4 SP No.2

BRACING

TOP CHORD	Structural wood sheathing directly applied, except end verticals.
BOT CHORD	Rigid ceiling directly applied.

REACTIONS

Max Horiz	7=273 (LC 10)
Max Uplift	5=-274 (LC 10), 7=-170 (LC 7)
(lb) - Maximum Compression/Maximum Tension	

FORCES

TOP CHORD	1-2=0/40, 2-3=-342/468, 3-4=-91/44, 4-5=-111/186, 5-6=-683/257
BOT CHORD	6-7=-529/219, 7-8=-683/257
WEBS	2-6=-159/228, 3-5=-310/827, 3-6=-399/151

NOTES

- 1) Wind: ASCE 7-16; Vult=140mph (3-second gust)
Vasd=106mph; TC DL=4.2psf; BC DL=5.0psf; h=25ft;
Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2E) 1-4-0 to 1-8-0, Interior (1) 1-8-0 to 5-8-4, Exterior (2E) 5-8-4 to 8-8-4 zone; end vertical left exposed; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate gnp DOL=1.60

- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.

- 3) 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 psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 170 lb uplift at joint 7 and 274 lb uplift at joint 5.

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITTEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MITTEK connectors. This design is based upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI Quality Criteria, DSB-89 and BCSI Building Component** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



6904 Parke East Blvd
Tampa, FL 33610

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Philip J. O'Regan PE No.58126
Mittek USA, Inc. FL Cert 8634
6904 Parke East Blvd, Tampa FL 33610
Date:

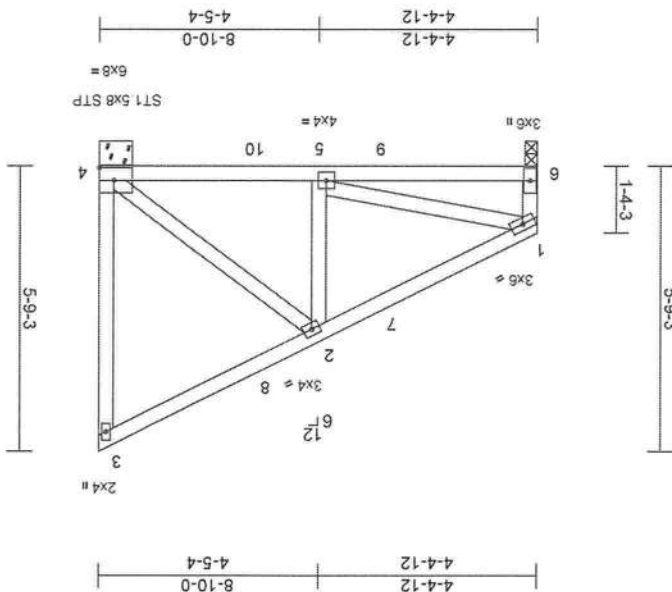
January 4, 2022

Job	Truss	Truss Type	Qty	1	Job Reference (optional)
2904837	G02A	Monopitch	2	Ply	T26407456

Builders FirstSource (Groveland, FL - 34736,

Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 Mitek Industries, Inc. Wed Dec 29 18:47:09
ID:0EEKX7O3YIIZOJTMqubq0gyIM9-RfC7P5B70Hq3NSgPqnlBw3uITXbGKwVrCD0i7J4zJC7f

Page: 1



Scale = 1/4" = 9'

Loading	Spacing	Code	FBC2020/TP12014	Matrix-AS	DEFL	in	(loc)	4-5	4-5	4	n/a	n/a	Weight: 55 lb	FT = 20%
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.32	0.04	4-5	>999	240	MT20	GRIP	244/190		
TCDL	10.0	Lumber DOL	1.25	BC	0.26	-0.02	4-5	>999	240					
BCLL	0.0*	Rep Stress Incr	YES	WB	0.26	-0.01	4-5	>999	240					
BCDL	10.0													

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,

except end verticals.

BOT CHORD Rigid ceiling directly applied.

REACTIONS

(lb/size) 4=342/0-8-0, 6=342/0-3-0

Max Horiz 6=235 (LC 10)

Max Uplift 4=-276 (LC 10), 6=-140 (LC 7)

FORCES

(lb) - Maximum Compression/Maximum

Tension

1-2=-352/4/94, 2-3=-91/4/4, 3-4=-110/180,

1-6=-301/4/13

5-6=-550/2/6, 4-5=-719/270

1-5=-174/2/11, 2-4=-327/872, 2-5=-408/152

NOTES

Wind: ASCE 7-16: V=1140mph (3-second gust)

V=108mph; TC=4.2psf; BC=5.0psf; h=25ft;

Zone and C-C: Exterior(2E) 5-8-4 to 8-8-4 zone; end

3-1-12 to 5-8-4, Exterior(2E) 0-1-12 to 3-1-12, Interior (1)

vertical left exposed; porch left and right exposed; C-C

Lumber DOL=1.60 plate grip DOL=1.60

for members and forces & MWFRS for reactions shown;

2) Building Designer / Project engineer responsible for

requirements specific to the use of this truss component.

3) This truss has been designed for a 10.0 psf bottom

chord live load nonconcurrent with any other live loads.

4) * This truss has been designed for a live load of 20.0psf

on the bottom chord in all areas where a rectangle

3-06-00 tall by 2-00-00 wide will fit between the bottom

chord and any other members.

5) Provide mechanical connection (by others) of truss to

bearing plate at joints) 6.

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a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall

building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing

is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the

fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANSI/TPI Quality Criteria, DSB-89 and BCSI Building Component

available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



6904 Parke East Blvd.
Tampa, FL 33610

January 4, 2022

Date:

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Mitek USA, Inc. FL Cent 8634

Philip J. O'Regan PE No.58126

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signature must be verified

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sealed by O'Regan, Philip, PE

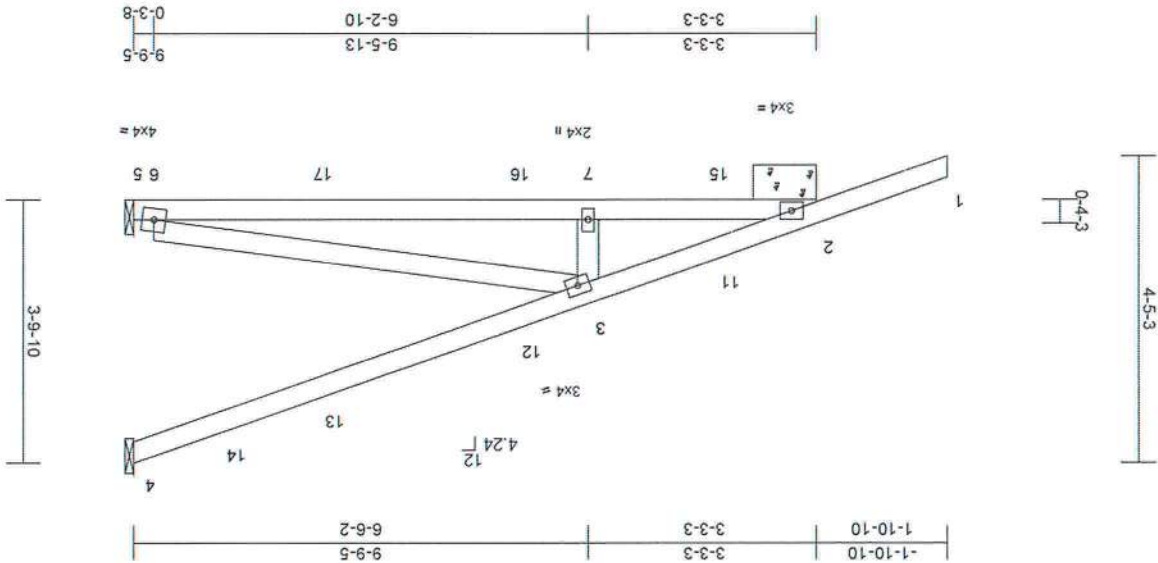
electronically signed and

This item has been

Job	Truss	Truss Type	Qty	Plt	Job Reference (optional)
2904837	HJ01	Diagonal Hip Girder	5	1	T26407457

Builders FirstSource (Groveland, FL - 34736,

Run: 8:43 S Oct 11 2021 Print: 8:430 S Oct 11 2021 Mittek Industries, Inc. Wed Dec 29 18:47:10
ID: 5UVC010717Vmwk5AC5wmZy6lmt-RtC7P5B70Hq3NSgPgnLbW3uITXbGKWVCDoJ7J4ZJCf



Scale = 1/32

Loadings	Spacing	Code	Matrix-MS	DEFL	in (loc)	l/defl	L/d	PLATES	Weight: 44 lb	FT = 20%
TCCL (roof)	20.0	Plate Grip DOL	1.25	0.96	-0.10	6-7	>507	240	n/a	
TCDL	10.0	Lumber DOL	1.25	0.88	-0.23	6-7	>507	240	n/a	
BCLL	0.0*	Rep Stress Incr	NO	0.81	-0.02	5	n/a	240	n/a	
BCDL	10.0				0.23	6-7	>497	240	n/a	

LUMBER	TOP CHORD	2x4 SP No.2	6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 196 lb uplift at joint 4, 322 lb uplift at joint 2 and 208 lb uplift at joint 5.
BRACING	TOP CHORD	2x4 SP No.3	7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 104 lb down and 61 lb up at 1-5-0, 104 lb down and 61 lb up at 1-5-0, 38 lb down and 41 lb up at 4-2-15, 38 lb down and 41 lb up at 4-2-15, and 70 lb down and 103 lb up at 7-0-14, and 70 lb down and 103 lb up at 7-0-14, and 41 lb up at 4-2-15, and 70 lb down and 103 lb up at 4-2-15, 13 lb down and 42 lb up at 4-2-15, and 32 lb down and 65 lb up at 7-0-14, and 32 lb down and 65 lb up at 7-0-14 on bottom chord. The design/selection of such connection device(s) is the responsibility of others. In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).
REACTIONS	(lb/size)	2-506/0-10-15, 4=203/ Mechanical, 5=273/ Mechanical	8) LOAD CASE(S) Standard
FORCES	(lb) - Maximum Compression/Maximum Tension	1-2=0/38, 2-3=-1040/778, 3-4=-112/55	1) Dead + Roof Live (balanced): Lumber Increase=1.25, Uniform Loads (lb/ft), Plate Increase=1.25
NOTES		3-7=-84/280, 3-6=-1004/872	Concentrated Loads (lb)
	Wind: A5CE 7-16: Vult=140mph (3-second gust)		Vert. 13=-81 (F=-41, B=-59 (F=30, B=30), 16=-10 (F=-5, B=-5), 17=-61 (F=-30, B=-30)
	Vasd=108mph: TCDL=4.2psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior		
	Zone: end vertical left and right exposed; Lumber		
	DOL=1.60 plate grip DOL=1.60		
	Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component		
	3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.		
	4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.		
	5) Refer to girder(s) for truss to truss connections.		

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Philip J. O'Regan PE No.58126
Mittek USA, Inc. FL Cert 6634
6904 Parke East Blvd, Tampa FL 33610
Date:

January 4, 2022

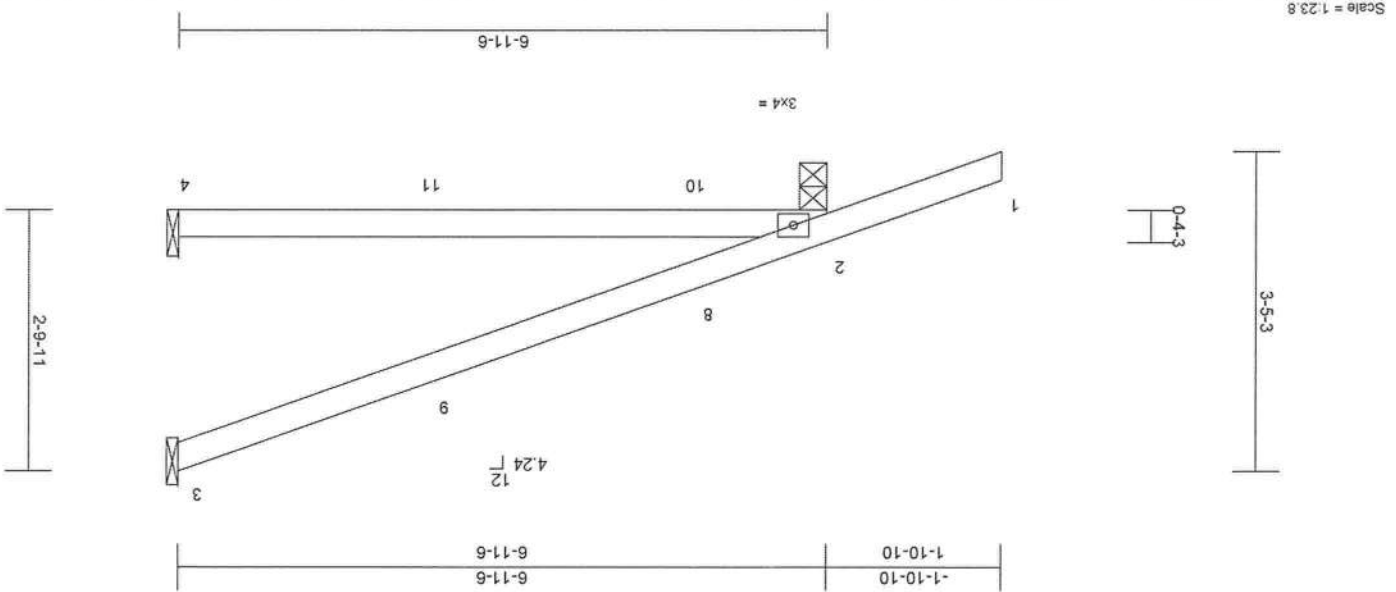
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITTEK REFERENCE PAGE MILL-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MITTEK connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing use, the building designer is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSIT/PTI Quality Criteria, DSB-88 and BCSI Building Component

Mittek
6904 Parke East Blvd
Tampa, FL 33610

Job	2904837	Truss	HJ02	Truss Type	Diagonal Hip Girder	Qty	3	Ply	1	Job Reference (optional)	T26407458
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Builders FirstSource (Groveand, FL), Groveand, FL - 34736.

Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 Mitek Industries, Inc. Wed Dec 29 18:47:10
ID: u081dHfPxxkQ2PVSna5Xny6IH8-RIC7Pp5B70Hq3NSgFpqlBw3uITXbGKwVwCD0J7J4zJC7r



Loading	Spacing	Code	BCDL
(psf)	2.0-0	2.0-0	10.0
TCLL (roof)	Plate Grip DOL	Rep Stress Incr	0.0*
TCDL	Lumber DOL	NO	10.0
BCLL	BC	WB	10.0
BCDL	TC	BC	10.0

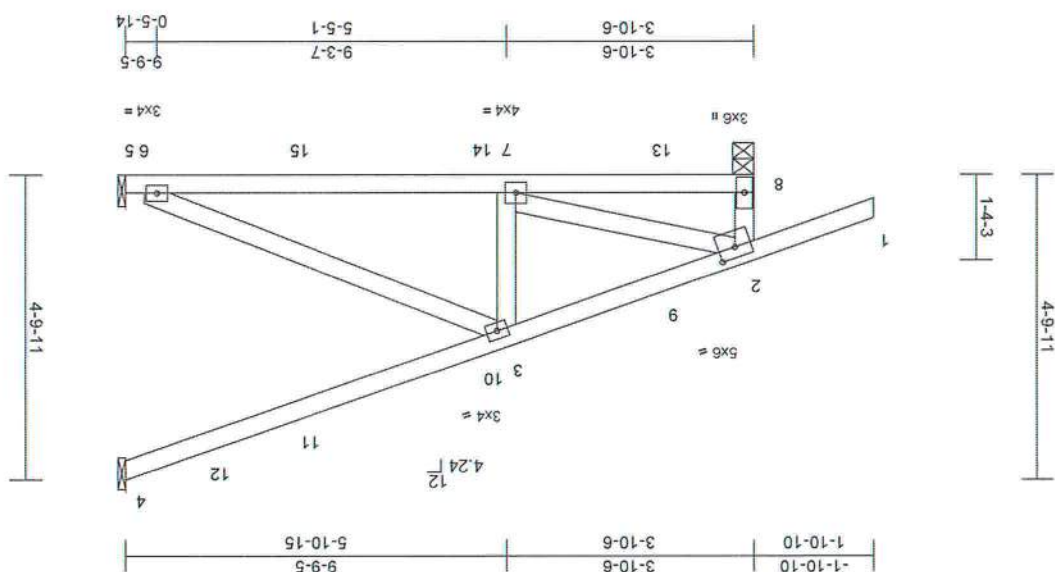
LUMBER	TOP CHORD	2x4 SP No.2
BRACING	2x4 SP No.2	
TOP CHORD	Structural wood sheathing directly applied or	
BOT CHORD	6-0-0 oc purlins.	
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc	
REACTIONS	(lb/size)	2=361/0-3-8, 3=171/ Mechanical.
Max Horiz	2=201 (LC 4)	
Max Uplift	2=205 (LC 4), 3=155 (LC 8).	
Max Grav	2=361 (LC 1), 3=171 (LC 1), 4=120 (LC 3)	
FORCES	(lb) - Maximum Compression/Maximum	
TOP CHORD	1-2=0/38, 2-3=-302/113	
BOT CHORD	2-4=-96/208	
NOTES		
1) Wind: ASCE 7-16: Vu1=140mph (3-second gust)		
2) Building Designer / Project engineer responsible for		
3) This truss has been designed for a 10.0 psf bottom		
4) * This truss has been designed for a live load of 20.0psf		
5) Refer to girder(s) for truss to truss connections.		
6) Provide mechanical connection (by others) of truss to		
7) joint 3, 205 lb uplift at joint 2 and 31 lb uplift at joint 4.		

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Philip J. O'Regan PE No.58126
Mitek USA, Inc. FL Cent 6634
6904 Park East Blvd, Tampa FL 33610
Date: January 4, 2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITTEK REFERENCE PAGE MIII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with Mitek connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601.





Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in (loc)	l/dell	L/d	PLATES	GRIP	244/190	TCDL TCLL (roof) TCDL BCLL BCDL
		Plate Gmp DOL	1.25	TC	Ver(LL)	-0.07	6-7	>999	360	MT20	Weight: 52 lb FT = 20%	
		Lumber DOL	1.25	BC	Ver(CT)	-0.15	6-7	>784	240			
		Rep Stress Incr	NO	WB	Horz(CT)	-0.01	5	n/a	n/a			
		10.0	Code	FBCG2020/TP12014	Matrix-MS	Wind(LL)	0.16	6-7	>996	240		

Plate Offsets (X, Y): [2:0-3:0,0-2:0]

Scale = 1:34.9

NUMBER	2x4 SP No.2	TOP CHORD	WCB5	2x4 SP No.3 "Except" 8-2:2x4 SP No.1
BRACING		TOP CHORD	Structural wood sheathing directly applied or	
		BOT CHORD	6-0-0 oc purlins, except end verticals.	
			bracing.	
REACTIONS	(lb/size)			
	4=182/ Mechanical, 8=265/			
	Mechanical, 8=476/0-3-14			
	Max Horiz =8-227 (LC 4)			
	Max Uplift =4-194 (LC 4), 5=-369 (LC 4),			
	8=-597 (LC 4)			
	Max Grav =4-182 (LC 1), 5=279 (LC 3), 8=476			
	(LC 1)			
FORCES	(lb) - Maximum Compression/Maximum			
	Tension			
	TOP CHORD		3-4=-111/55	
			7-8=-184/0, 6-7=-125/482, 5-6=0/0	
	BOT CHORD		3-6=-525/789, 2-7=-816/624, 3-7=-501/73	
	NOTES			
1)	Wind: ASCE 7-16; Vult=140mph (3-second gust)			
	Vasd=108mph; TCDDL=4.2psf; BCDDL=5.0psf; h=25ft;			
	Cal. II; Exp C; Enclosed; MWFRS (envelope) exterior			
	zone; end vertical left exposed; porch left and right			
	exposed; lumber DOL=1.60 plate grip DOL=1.60			
2)	Building Designing / Project engineer responsible for			
	verifying applied roof live load shown covers rain loading			
	requirements specific to the use of this stress component.			
3)	This truss has been designed for a 10.0 psf bottom			
	chord live load nonconcurrent with any other live loads.			
4)	* This truss has been designed for a live load of 20.0psf			
	on the bottom chord in all areas where it fit between the bottom			
	3-06-00 tall by 2-00-00 wide will fit between the bottom			
	chord and any other members.			

1) Dead + Roof Live (balanced): Lumber Increase=1.25,
Platform Loads (lb/ft)
Vert.: 1-2=60, 2-4=60, 5-8=20
Concentrated Loads (lb)
Vert.: 9=87 (F=43, B=43), 11=80 (F=40, B=40),
14=1 (F=1, B=1), 15=44 (F=22, B=22)

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Philip J. O'Regan PE No.58126
Mitek USA, Inc. FL Cant 6844
6804 Park East Blvd, Tampa FL 33610

Date: January 4, 2022

Philip J. O'Regan PE No. 58126
Mittek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

January 4, 2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITTEK REFERENCE PAGE M11-7473 rev. 5/19/2020 BEFORE USE.

Design a truss system for use only with Mittek's connectors. This design is based only upon parameters shown, and is for an individual building component, not the overall building system. The building designer must verify the applicability of design parameters shown, and is responsible for the design of the building system, including the design of the roof and floor framing, and the design of the building system. Additional temporary and permanent bracing is always required for stability, and to prevent collapse with possible permanent injury and property damage.

Installation, storage, delivery, erection and bracing of trusses and truss systems, see ANSITR71 Quality Criteria, DSB-89 and ECSI Building Component for general guidance regarding the

Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

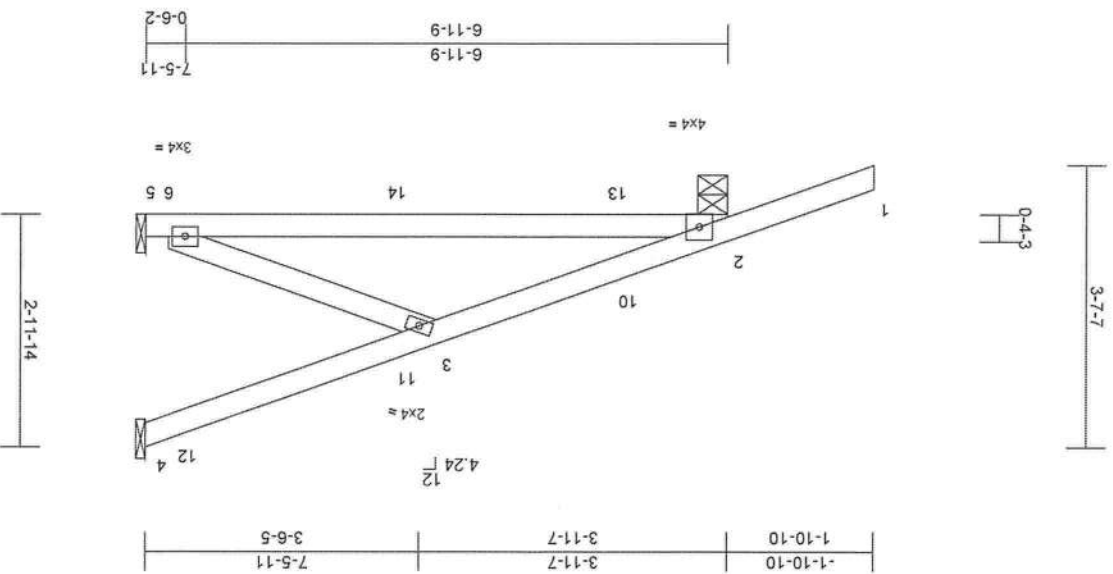


MITek
6904 Parke East Blvd
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
2904837	HJ04	Diagonal Hip Girder	1	1	T26407460

Builders FirstSource (GroveLand, FL), GroveLand, FL - 34736.

Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 Mitek Industries, Inc. Wed Dec 29 18:47:11
ID: dLFVW07NKAH7Wt88H4jfbYbInH-RtC7P5B70Hq3NSgPqnlBw3uitTxbGKwWrcDO7J4zJC7



Scale = 1/28.5

Loading	Spacing	Code	FBC2020/TP12014	Matrix-MS	DEFLL	in	(loc)	l/defl	L/d	PLATES	GRIP	Weight: 31 lb	FT = 20%
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.39	-0.09	6-9	>954	360	MT20	244/190		
TCDL	10.0	Lumber DOL	1.25	BC	0.55	-0.17	6-9	>518	240				
BCLL	0.0*	Rep Stress Incr	NO	WB	0.12	0.00	5	n/a	n/a				
BCDL	10.0					0.11	6-9	>821	240				

LUMBER	TOP CHORD	2x4 SP No.2
WEBS	TOP CHORD	2x4 SP No.3
BRACING	TOP CHORD	Structural wood sheathing directly applied or
RECTIONS	(lb/size)	2=389/0-4-9, 4=217/ Mechanical,
Max Horiz	2=212 (LC 22)	
Max Uplift	2=232 (LC 4), 4=246 (LC 4),	
Max Grav	2=389 (LC 1), 4=217 (LC 1), 5=299	
FORCES	(lb) - Maximum Compression/Maximum	
Tension	1=2=0/38, 2=3=-411/232, 3=4=-83/65	
TOP CHORD	2=6=-298/379, 5=6=0/0	
WEBS	3=6=-407/321	
NOTES	Wind: ASCE 7-16: Vult=140mph (3-second gust)	
1)	Vasd=108mph; TCDD=4.2psf; BCDL=5.0psf; h=25ft;	
	Cal. II; Exp C; Enclosed; MWFRS (envelope) exterior	
	zone; porch left and right exposed; Lumber DOL=1.60	
	plate grip DOL=1.60	
2)	Building Designer / Project engineer responsible for	
	verifying applied roof live load shown covers rain loading	
	requirements specific to the use of this truss component.	
3)	This truss has been designed for a 10.0 psf bottom	
	chord live load nonconcurrent with any other live loads.	
4)	* This truss has been designed for a live load of 20.0psf	
	on the bottom chord in all areas where a rectangle	
	3-06-00 tall by 2-00-00 wide will fit between the bottom	
	chord and any other members.	
5)	Refer to girder(s) for truss to truss connections.	

Date: January 4, 2022

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Philip J. O'Regan PE No.58126
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8904 Parke East Blvd, Tampa FL 33610

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Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601
ANSI/APA Quality Criteria, DSB-89 and BCS Building Component

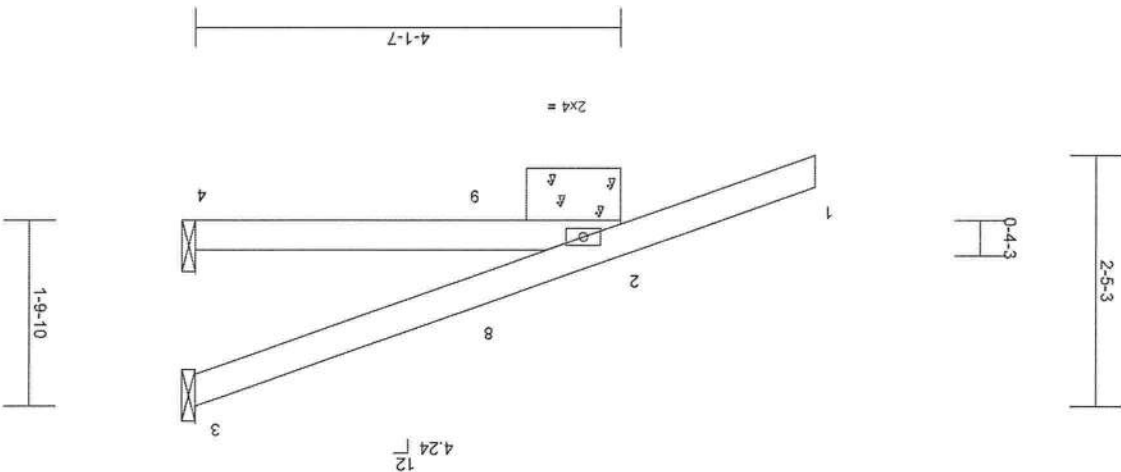


Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
2904837	HJ06	Diagonal Hip Girder	1	1	T26407462

Builders FirstSource (GroveLand, FL), GroveLand, FL - 34736.

Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 MITek Industries, Inc. Wed Dec 29 18:47:11
ID: NHYBJRUBB94ES7defqdzY6kOI-RfC7P5B70Hq3NSgPqnl8w3uITXBGKWwCDoITJ4ZJC7F

-1-10-10	4-1-7
1-10-10	4-1-7



Scale = 1/2" = 1'-0"

Loading	Spacing	Code	FBG2020/TP12014	Matrix-MP	DEFLL	in	(loc)	l/defl	L/D	PLATES	MT20	GRIP	Weight: 16 lb	FT = 20%
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.27	0.18	0.00	4-7	>999	240	180	n/a	n/a	
TCDL	10.0	Lumber DOL	1.25	BC	0.18	0.00	0.00	4-7	>999	180	180	n/a	n/a	
BCLL	0.0	Rep Stress Incr	NO	WB	0.00	0.00	0.00	2	>999	180	180	n/a	n/a	
BCDL	10.0													

LUMBER

TOP CHORD 2x4 SP No.2

BOT CHORD 2x4 SP No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or

BOT CHORD 4-1-7 oc purlins.

4-1-7 oc purlins.

Rigid ceiling directly applied or 10-0-0 oc

bracing.

(lb/size)

2=263/0-10-15, 3=85/ Mechanical,

4=30/ Mechanical

2=140 (LC 22)

Max Horiz 2=157 (LC 4), 3=56 (LC 8)

Max Uplift 2=263 (LC 1), 3=85 (LC 1), 4=58

(LC 3)

(lb) - Maximum Compression/Maximum

Tension

1-2=0/38, 2-3=-250/140

2-4=-136/209

NOTES

1) Wind: ASCE 7-16: Vult=140mph (3-second gust)

Vasd=108mph; TCCL=4.2psf; BCCL=5.0psf; h=25ft;

Cat. II; Exp C; Enclosed; M/WFRS (envelope) exterior

zone; end vertical left and right exposed; 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.

Building Designer / Project engineer responsible for

verifying applied roof live load shown covers rain loading

requirements specific to the use of this truss component.

4) Gable studs spaced at 2-0-0 oc.

5) This truss has been designed for a 10.0 psf bottom

chord live load nonconcurrent with any other live loads.

6) This truss has been designed for a live load of 20.0psf

on the bottom chord in all areas where a rectangle

3-06-00 tall by 2-00-00 wide will fit between the bottom

chord and any other members.

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ANSI/TPI 1 Quality Criteria, DSB-88 and BCSI Building Component

Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



6904 Parks East Blvd.
Tampa, FL 33610

January 4, 2022

Date:

6904 Parks East Blvd, Tampa FL 33610

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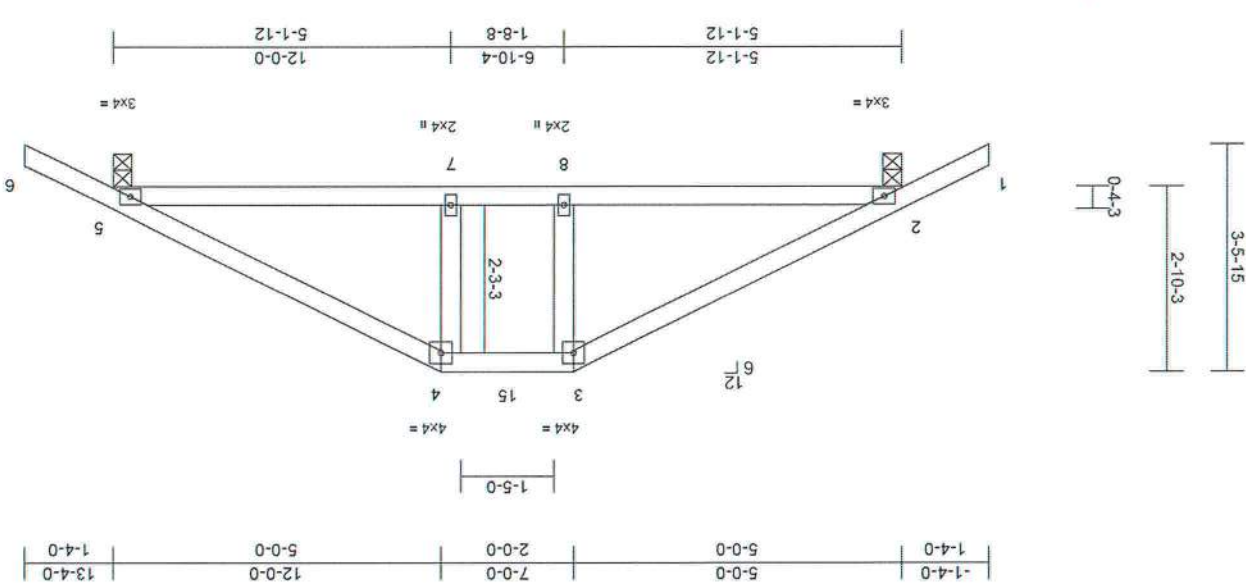
electronically signed and

This item has been

Job	Truss Type	Qty	Ply	Job Reference (optional)
2904837	K01	1	1	T26407463

Builders FirstSource (Groveand, FL), Groveand, FL - 34796.

Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 Mittek Industries, Inc. Wed Dec 29 18:47:11 ID: yisQk_Qa70FfjndmndvdyvlgRy-RfC7PpSB70Hq3NsgPqnlBw3uITXbGKWVrCD0tJ4zJC7



Loading	Spacing	Code	Matrix-MS	DEFL	in (loc)	l/defl	L/D	PLATES	GRIP	Weight: 49 lb	FT = 20%
TCLL (roof)	20.0	Plate Grip DOL	TC	0.35	-0.04	7-14	>999	360	244/190	n/a	
TCDL	10.0	Lumber DOL	BC	0.40	-0.07	7-14	>999	240		n/a	
BCLL	0.0 *	Rep Stress Incr	WB	0.09	0.02	5	n/a	n/a			
BCDL	10.0				0.07	8-11	>999	240			

LUMBER	TOP CHORD	2x4 SP No.2	7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 465 lb uplift at joint 2 and 465 lb uplift at joint 5.
BOT CHORD	2x4 SP No.2	8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 157 lb down and 193 lb up at 5'-0'-0, and 157 lb down and 193 lb up at 7'-0'-0 on top chord, and 156 lb down and 56 lb up at 6'-1'-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.	
REACTIONS	(lb/size)	2=74/4-0-3-8, 5=74/4-0-3-8	9) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).
Max Horiz	2=83 (LC 8)		
Max Uplift	2=-465 (LC 8), 5=-465 (LC 9)		
FORCES	(lb) - Maximum Compression/Maximum Tension		
TOP CHORD	1-2=0/36, 2-3=-1090/736, 3-4=-929/676, 4-5=-1090/735, 5-6=0/36		
BOT CHORD	2-8=-602/920, 7-8=-605/929, 5-7=-600/920, 3-8=-89/225, 4-7=-89/225		
NOTES			

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Philip J. O'Regan PE No.58126
Mittek USA, Inc. FL Cert 6634
6904 Parke East Blvd, Tampa FL 33610

Date: January 4, 2022

Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
2904837	K02	Common	1	1	T26407464

Builders FirstSource (Groveland, FL), Groveland, FL - 34736.

Run: 8.43 S Oct 11 2021 Print: 8.43 S Oct 11 2021 Mittek Industries, Inc. Wed Dec 29 18:47:12
ID: NOHX8V1U1H1e1USBIVieky6IGK-RfC7P2PB70Hq3NSgPgnLBw3uITxbGKwWCoID7J4ZJC7F

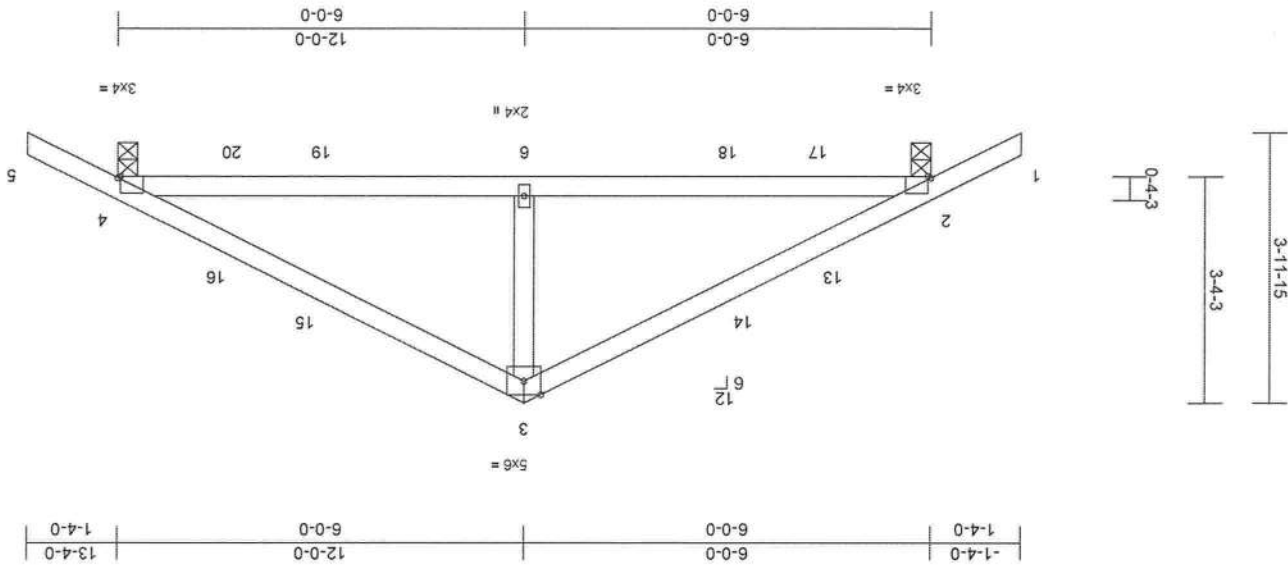


Plate Offsets (X, Y): [2'-0-0-8, Edge], [4'-0-0-8, Edge]

Scale = 1/32.8

Loading	Spacing	Code	Matrix-AS	DEFL	in	(loc)	l/defl	L/d	PLATES	Weight: 47 lb	FT = 20%
TCLL (roof)	20.0	Plate Grip DOL	TC	0.62	0.13	6-9	>999	240	MT20	244/190	
TCDL	10.0	Lumber DOL	BC	0.64	-0.07	6-9	>999	240			
BCLL	0.0 *	Rep Stress Incr	WB	0.16	-0.01	4	n/a	n/a			
BCDL	10.0										

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.
BOT CHORD	Rigid ceiling directly applied.

REACTIONS

(lb/size)	2=560/0-3-8, 4=560/0-3-8
Max Horiz	2=96 (LC 10)
Max Uplift	2=-274 (LC 7), 4=-274 (LC 6)

FORCES

(lb) - Maximum Compression/Maximum Tension	1-2=0/36, 2-3=-669/1446, 3-4=-669/1446,
4-5=0/36	

TOP CHORD

BOT CHORD	2-6=-1102/540, 4-6=-1102/540
WEBS	3-6=-753/271

NOTES

- 1) Unbalanced roof live loads have been considered for this design.

2)

Wind: ASCE 7-16; Vult=140mph (3-second gust)
Vasd=108mph; TCDL=4.2psf; BCDL=5.0psf; h=25ft;

Cal. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -1-4-0 to 1-8-0, Interior (1)

1-8-0 to 3-0-0, Exterior(2R) 3-0-0 to 9-0-0, Interior (1)

9-0-0 to 10-4-0, Exterior(2E) 10-4-0 to 13-4-0 zone;

porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber

DOL=1.60 plate grip DOL=1.60

Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.

4)

This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

5)

* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3'-0-0-0 tall by 2'-0-0-0 wide will fit between the bottom chord and any other members.

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITTEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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ANSI/APA Quality Criteria, DSB-89 and BCS Building Component



6904 Parke East Blvd.
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January 4, 2022

Date:

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Job	Truss	K02A	Common	QTY	1	Ply	1	Job Reference (optional)	T26407465
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Builders FirstSource (Groveland, FL), Groveland, FL - 34736, Run: 8:43 S Oct 11 2021 Print: 8:43 S Oct 11 2021 Mittek Industries, Inc. Wed Dec 29 18:47:12 ID: 8CH_NCDJP7RUB8U8F8SS98c9fX-RtC7P8b70Hq3NSgPqnl8w3uITXbGKwVCDoi7J4zJ07

Loading	Spacing	Code	Matrix-AS	DEFL	In (loc)	l/defl	L/d	PLATES	Weight: 42 lb	FT = 20%
TCLL (roof)	20.0	Plate Grip DOL	TC	0.68	0.15	4-7	>956	240	MT20	244/190
TCDL	10.0	Lumber DOL	BC	0.71	Vert(CT)	4-7	>999	240		
BCLL	0.0 *	Rep Stress Incr	VB	0.17	Horz(CT)	-0.01	3	n/a		
BCDL	10.0							n/a		

LUMBER	TOP CHORD	2x4 SP No.2
WEBS	TOP CHORD	2x4 SP No.3
BRACING	Structural wood sheathing directly applied.	
REACTIONS	(lb/size) 1=480/0-3-8, 3=480/0-3-8	
FORCES	(lb) - Maximum Compression/Maximum Tension	
TOP CHORD	1-2=-679/1535, 2-3=-679/1535	
BOT CHORD	1-4=-1256/565, 3-4=-1256/565	
WEBS	2-4=-800/276	
NOTES	(1) Unbalanced roof live loads have been considered for this design. (2) Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf, BCDL=5.0psf, h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-0 to 3-0-0, Exterior(2R) 3-0-0 to 9-0-0, Exterior(2E) 9-0-0 to 12-0-0 zone; end vertical left and right exposed; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60 (3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component. (4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads. (5) This truss has been designed for a live load of 20 psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.	

LOAD CASE(S)	Standard
6) Provide mechanical connection (by others) of truss to joint 1 and 248 lb uplift at joint 3.	
7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.	

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=140mph (3-second gust)
Vasd=108mph; TCDL=4.2psf, BCDL=5.0psf, h=25ft;
Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-0 to 3-0-0, Exterior(2R) 3-0-0 to 9-0-0, Exterior(2E) 9-0-0 to 12-0-0 zone; end vertical left and right exposed; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
(3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) This truss has been designed for a live load of 20 psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.

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ANSI/TPI Quality Criteria, DSB-89 and BCSI Building Component

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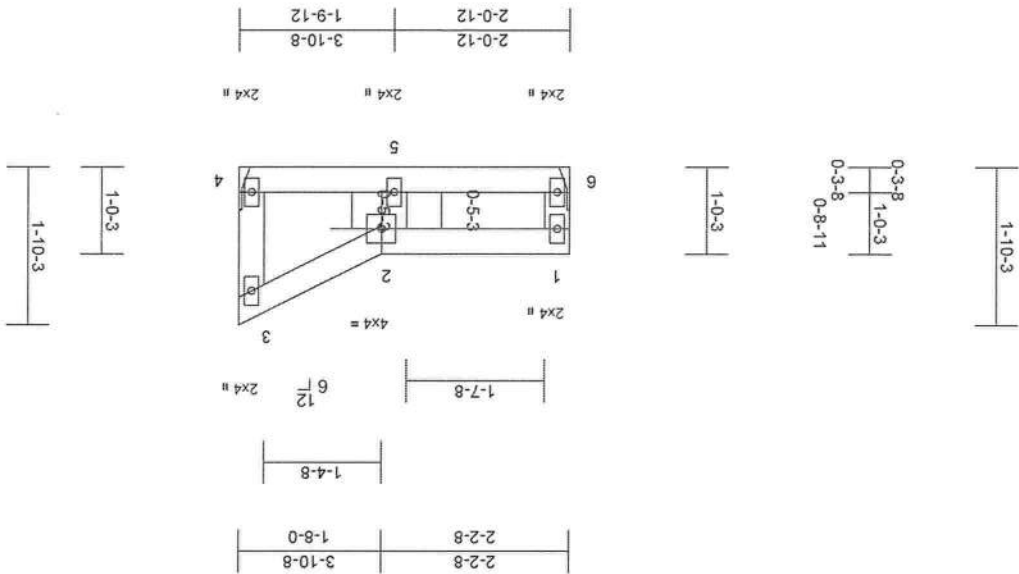
Mittek USA, Inc. FL Cont 8634
6904 Parke East Blvd, Tampa FL 33610

Date: January 4, 2022

Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
2904837	N01	Roof Special	1	1	T26407466

Builders FirstSource (GroveLand, FL), GroveLand, FL - 34736.

Run: 8:43 S Oct 11 2021 Print: 8:430 S Oct 11 2021 Mitek Industries, Inc. Wed Dec 29 18:47:12 ID: ZQ1L_5wm74oyG5BDqrtpZdvYkKSg-RfC7P5aB70Hq3NSgPqnlBw3uITXbGKvWCDoI7J4zJC7i



Scale = 1/25

Loading	Spacing	Code	BCDL	BCLL	TCDL	TCLL (roof)
(psf)	2-0-0	2-0-0	10.0	0.0*	10.0	20.0
			Rep Stress Incr	Lumber DOL	Plate Grip DOL	
			YES	1.25	1.25	
			WB	BC	TC	
			Matrix-MR			
			0.04	0.15	0.19	
			Wind(LL)	Horz(CT)	Vert(CT)	Vert(LL)
			0.02	0.00	-0.02	-0.01
			5-6	4	5-6	5
			>999	n/a	>999	>999
			240	n/a	240	360
			L/d	MT20	GRIP	
			Weight: 15 lb	FT = 20%		

7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 72 lb uplift at joint 6 and 79 lb uplift at joint 4.

LOAD CASE(S) Standard

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 3-10-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 4=143/ Mechanical, 6=143/ Max Horiz 6=87 (LC 9) Mechanical
Max Uplift 4=-79 (LC 10), 6=-72 (LC 10) (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-6=-89/117, 1-2=-55/13, 2-3=-77/65, 3-4=-66/96
BOT CHORD 5-6=-33/38, 4-5=-40/50
WEBS 2-5=-76/138

NOTES
1) Wind: ASCE 7-16, Vult=140mph (3-second gust)
Vasd=108mph; TC DL=4.2psf; BC DL=5.0psf; h=25ft; Cat II; Exp C; Enclosed; MWFRS (envelope) exterior
Zone and C-C Exterior(2E) zone; end vertical left and right exposed; C-C for members and forces & MWFRS
for reactions shown; Lumber DOL=1.60 plate grip
DOL=1.60
2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
6) Refer to girder(s) for truss to truss connections.

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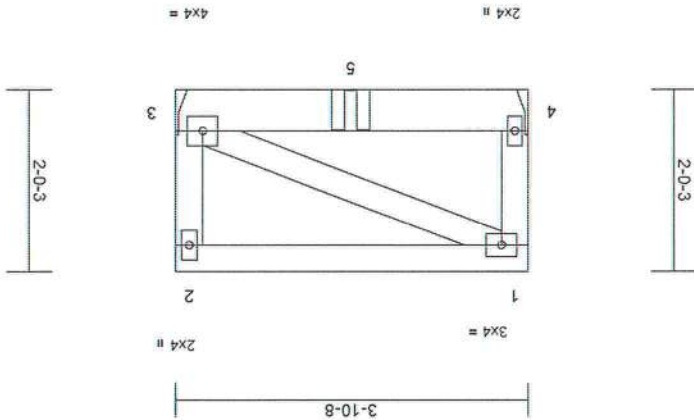
Philip J. O'Regan PE No.58126
Mitek USA, Inc. FL Cert 8634
6804 Parke East Blvd, Tampa FL 33610
Date:

January 4, 2022

Job	Truss	Truss Type	Qty	Job Reference (optional)
2904837	N02	Flat Girder	1	T26407467

Builders FirstSource (GroveLand, FL), GroveLand, FL - 34736.

Run: 8:43 S Oct 11 2021 Print: 8:430 S Oct 11 2021 MITtek Industries, Inc. Wed Dec 29 18:47:12 ID:7cu117BdPL13MEIOVaCBNeY6kR1-RFC7P5B70Hq3NSgPqnlBw3uITXbGKWwCDoi7J4zJC7r



Scale = 1/24.6

Loading	Spacing	Code	Matrix-MP	DEFLL	in (loc)	L/dell	L/d	PLATES	GRIP	Weight: 24 lb	FT = 20%
BCDL	10.0	Rep Stress Incr	NO	0.02	Horz(CT)	0.00	3	n/a			
BCLL	0.0	Lumber DOL	1.25	0.56	Vert(CT)	-0.03	3-4	>999	240		
TCDL	10.0	Plate Grip DOL	1.25	0.25	Vert(LL)	-0.02	3-4	>999	360	MT20	244/190
TCLL (roof)	20.0										
	(psf)										

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 3-10-8 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS

(lb/size)	3=416/ Mechanical, 4=416/
Max Horiz	4=-93 (LC 4)
Max Uplift	3=-210 (LC 5), 4=-210 (LC 4)

FORCES

(lb) - Maximum Compression/Maximum	
TOP CHORD	1-4=-108/115, 1-2=-34/26, 2-3=-108/93
BOT CHORD	3-4=-81/73
WEBS	1-3=-51/51

NOTES

- Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=108mph; TCDD=4.2psf, BCDD=5.0psf, h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 210 lb uplift at joint 4 and 210 lb uplift at joint 3.

- Use Simpson Strong-Tie HTU26 (20-10d Girder, 1-10d x 1 1/2 Truss, Single Ply Girder) or equivalent at 1-1-4 from the left end to connect truss(es) to front face of bottom chord.
- Fill all nail holes where hanger is in contact with lumber.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).
- LOAD CASE(S) Standard
- Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
- Uniform Loads (lb/ft)
- Vert. 1-2=-60, 3-4=-20
- Concentrated Loads (lb)
- Vert. 5=-546 (F)

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Philip J. O'Regan PE No.58128
 6904 Parke East Blvd, Tampa FL 33610
 MITtek USA, Inc. FL Cert 6634
 Date: January 4, 2022



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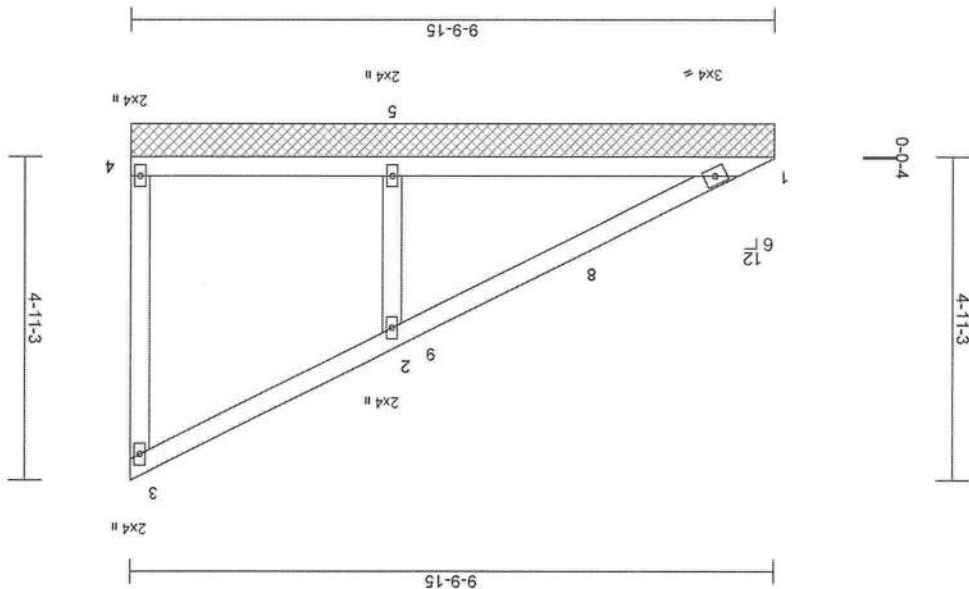
Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
2904837	V01	Valley	1	1	T26407468

Builders FirstSource (GroveLand, FL), GroveLand, FL - 34736.

Run: 8:43 S Oct 11 2021 Print: 8:430 S Oct 11 2021 Mitek Industries, Inc. Wed Dec 29 18:47:12
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Page: 1



Loading	(psf)	Spacing	2'-0-0	CSI	DEFLL	in	(loc)	i/defl	L/D	PLATES	GRIP	Weight: 40 lb	FT = 20%
TCLL (roof)	20.0	Plate Gyp DOL	1.25	TC	0.31	n/a	-	n/a	999	MT20	244/190		
TCDL	10.0	Lumber DOL	1.25	BC	0.30	n/a	-	n/a	999				
BCLL	0.0*	Rep Stress Incr	YES	WB	0.13	0.01	4	n/a	n/a				
BCDL	10.0	Code	FBC2020/TP12014	Matrix-AS					n/a				

LUMBER	2x4 SP No.2	2x4 SP No.2	2x4 SP No.3	OTHERS	2x4 SP No.3	BRACING	Structural wood sheathing directly applied,	except end verticals.	Rigid ceiling directly applied.	(lb/size)	1=189/9-9-15, 4=87/9-9-15.	Max Horiz	1=286 (LC 7)	1=42 (LC 10), 4=61 (LC 7).	Max Uplift	5=297 (LC 10)	1=191 (LC 18), 4=88 (LC 17).	5=499 (LC 1)	(lb) - Maximum Compression/Maximum	Tension	1=2=349/97, 2-3=146/78, 3-4=74/97	1-5=183/280, 4-5=119/127	2-5=343/440	WEBS	BOT CHORD	1-5=183/280, 4-5=119/127	2-5=343/440	NOTES
TOP CHORD	2x4 SP No.2	2x4 SP No.2	2x4 SP No.3	OTHERS	2x4 SP No.3	BRACING	Structural wood sheathing directly applied,	except end verticals.	Rigid ceiling directly applied.	(lb/size)	1=189/9-9-15, 4=87/9-9-15.	Max Horiz	1=286 (LC 7)	1=42 (LC 10), 4=61 (LC 7).	Max Uplift	5=297 (LC 10)	1=191 (LC 18), 4=88 (LC 17).	5=499 (LC 1)	(lb) - Maximum Compression/Maximum	Tension	1=2=349/97, 2-3=146/78, 3-4=74/97	1-5=183/280, 4-5=119/127	2-5=343/440	WEBS	BOT CHORD	1-5=183/280, 4-5=119/127	2-5=343/440	NOTES

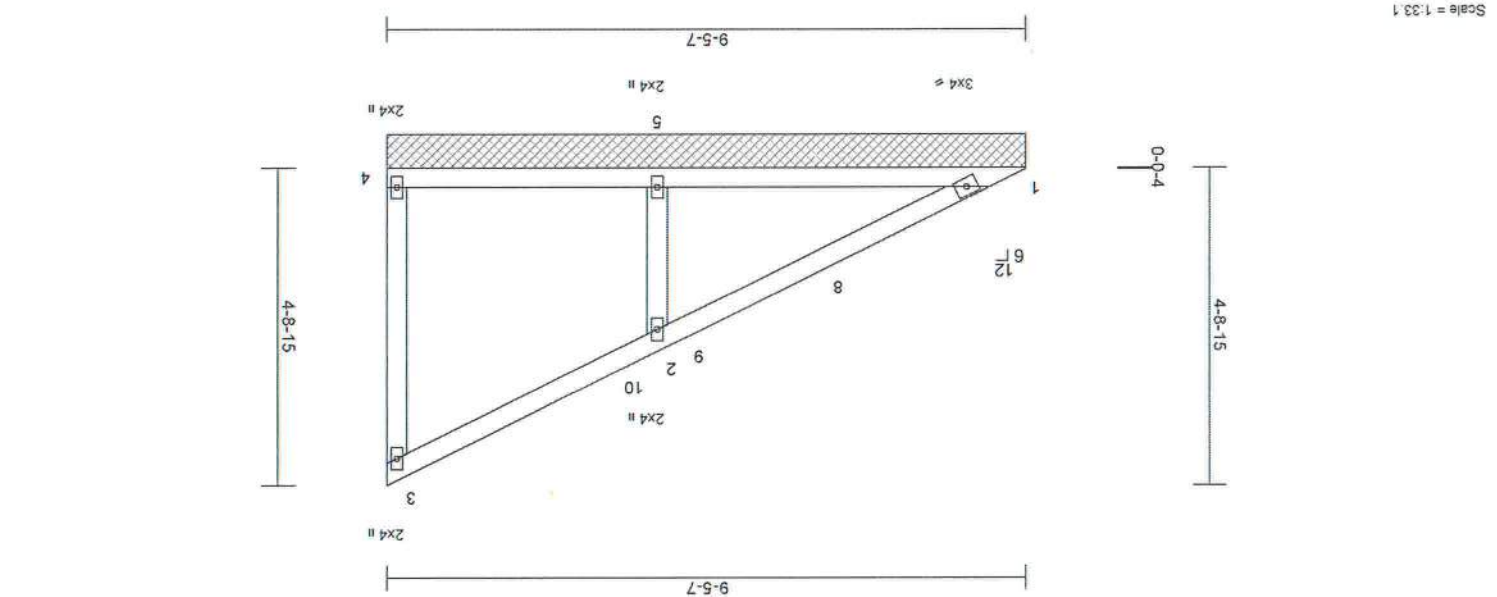
- 1) Wind: ASCE 7-16; Vult=140mph (3-second gust)
Vasd=108mph; TCCL=4.2psf; BCCL=5.0psf; h=25ft;
Cat. II; Exp C; Enclosed; MVFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-8 to 3-0-8, Interior (1) 3-0-8 to 5-5-12, Exterior(2R) 5-5-12 to 9-8-11 zone; end vertical left and right exposed; C-C for members and forces & MVFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) 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. Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Gable requires continuous bottom chord bearing.
- This item has been electronically signed and sealed by ORegan, Phillip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.
- Philip J. O'Regan PE No.58126
Mitek USA, Inc. FL Cert 8834
6904 Parke East Blvd, Tampa FL 33610
Date: January 4, 2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with Mitek connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see
ANSI/TPI Quality Criteria, DSB-89 and BCSI Building Component

Mitek
6904 Parke East Blvd
Tampa, FL 33610

Job	2904837	Truss	V02	Valley	Truss Type	1	Qty	1	Ply	Job Reference (optional)	T26407469
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Builders FirstSource (Groveand, FL - 34796, Run: 8:43 S Oct 11 2021 Print: 8:43 S Oct 11 2021 Mitek Industries, Inc. Wed Dec 29 18:47:13 ID:cgN09MR7aWixieGjCENhNfPy6lF-RfC7P5B70Hq3NSgPqnlBw3uItXBGKWwCDoi7J4ZC3f



Loading	Spacing	Code	Matrix-AS	DEFLL	in (loc)	L/dell	L/d	PLATES	GRIP	Weight: 38 lb	FT = 20%
TCLL (roof)	20.0	Plate Grip DOL	TC	0.28	Vert(TL)	n/a	n/a	999	MT20	244/190	
TCDL	10.0	Lumber DOL	BC	0.26	Horiz(TL)	0.01	4	n/a	n/a		
BCLL	0.0*	Rep Stress Incr	WB	0.13				n/a	n/a		
BCDL	10.0										

TOP CHORD	2x4 SP No. 2	6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.	7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3'-06-00 tall by 2'-00-00 wide will fit between the bottom chord and any other members.	8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 36 lb uplift at joint 5.	9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.	LOAD CASE(S) Standard	Max Grav	1=180 (LC 18), 4=95 (LC 1), 5=473 (LC 1)	(lb) - Maximum Compression/Maximum Tension	TOP CHORD	1-2=-327/89, 2-3=-142/71, 3-4=-79/104	BOT CHORD	1-5=-174/258, 4-5=-113/121	WEBS	2-5=-326/433
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TOP CHORD	2x4 SP No. 2	6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.	7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3'-06-00 tall by 2'-00-00 wide will fit between the bottom chord and any other members.	8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 36 lb uplift at joint 5.	9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.	LOAD CASE(S) Standard	Max Grav	1=180 (LC 18), 4=95 (LC 1), 5=473 (LC 1)	(lb) - Maximum Compression/Maximum Tension	TOP CHORD	1-2=-327/89, 2-3=-142/71, 3-4=-79/104	BOT CHORD	1-5=-174/258, 4-5=-113/121	WEBS	2-5=-326/433
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TOP CHORD	2x4 SP No. 2	6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.	7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3'-06-00 tall by 2'-00-00 wide will fit between the bottom chord and any other members.	8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 36 lb uplift at joint 5.	9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.	LOAD CASE(S) Standard	Max Grav	1=180 (LC 18), 4=95 (LC 1), 5=473 (LC 1)	(lb) - Maximum Compression/Maximum Tension	TOP CHORD	1-2=-327/89, 2-3=-142/71, 3-4=-79/104	BOT CHORD	1-5=-174/258, 4-5=-113/121	WEBS	2-5=-326/433
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This item has been electronically signed and sealed by O'Regan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Philip J. O'Regan PE No.58126
Mitek USA, Inc. FL Cert 8634
6904 Parke East Blvd, Tampa FL 33610

Date: January 4, 2022

Job	Truss	V03	Valley	City	1	1	Job Reference (optional)
2904837							T26407470

Builders FirstSource (Groveand, FL), Groveand, FL - 34736.

Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 Mitek Industries, Inc. Wed Dec 29 18:47:13
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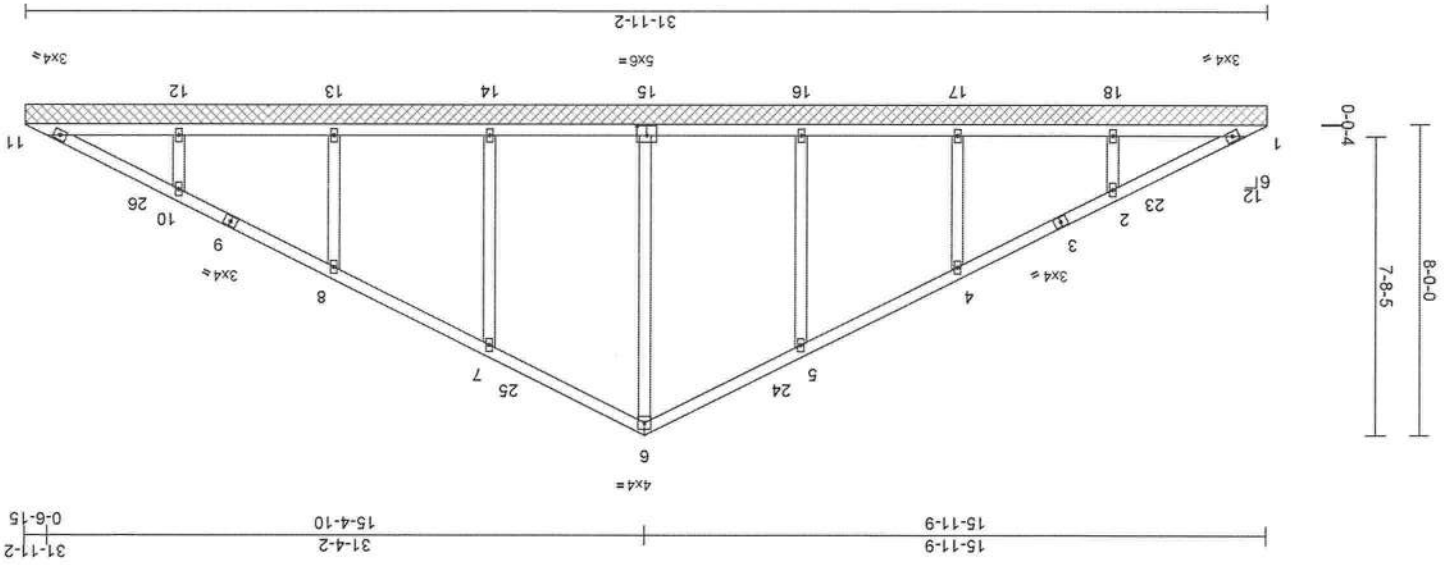


Plate Offsets (X, Y): [15-0-3-0-0-3-0]

Loading	Spacing	Code	Matrix-AS	DEFL	In (loc)	I/defl	L/d	PLATES	GRIP	Weight: 140 lb FT = 20%
TCLL (roof)	20-0	Plate Grip DOL	TC	0.17	n/a	-	n/a	999	MT20	244/190
TCDL	10-0	Lumber DOL	BC	0.17	n/a	-	n/a	999	MT20	
BCLL	0-0	Rep Stress Incr	WB	0.29	0.01	11	n/a	n/a		
BCDL	10-0									

LUMBER
2x4 SP No.15
2x4 SP No.2
2x4 SP No.3
OTHERS
2x4 SP No.3
BRACING
Structural wood sheathing directly applied.
Rigid ceiling directly applied.

REACTIONS (lb/size)
1=114/31-11-2, 11=15/31-11-2,
12=35/31-11-2, 13=308/31-11-2,
14=33/31-11-2, 15=330/31-11-2,
16=332/31-11-2, 17=308/31-11-2,
18=35/31-11-2

Max Horiz
1=205 (LC 10)
12=35/31-11-2, 13=308/31-11-2,
14=33/31-11-2, 15=330/31-11-2,
16=332/31-11-2, 17=308/31-11-2,
18=35/31-11-2

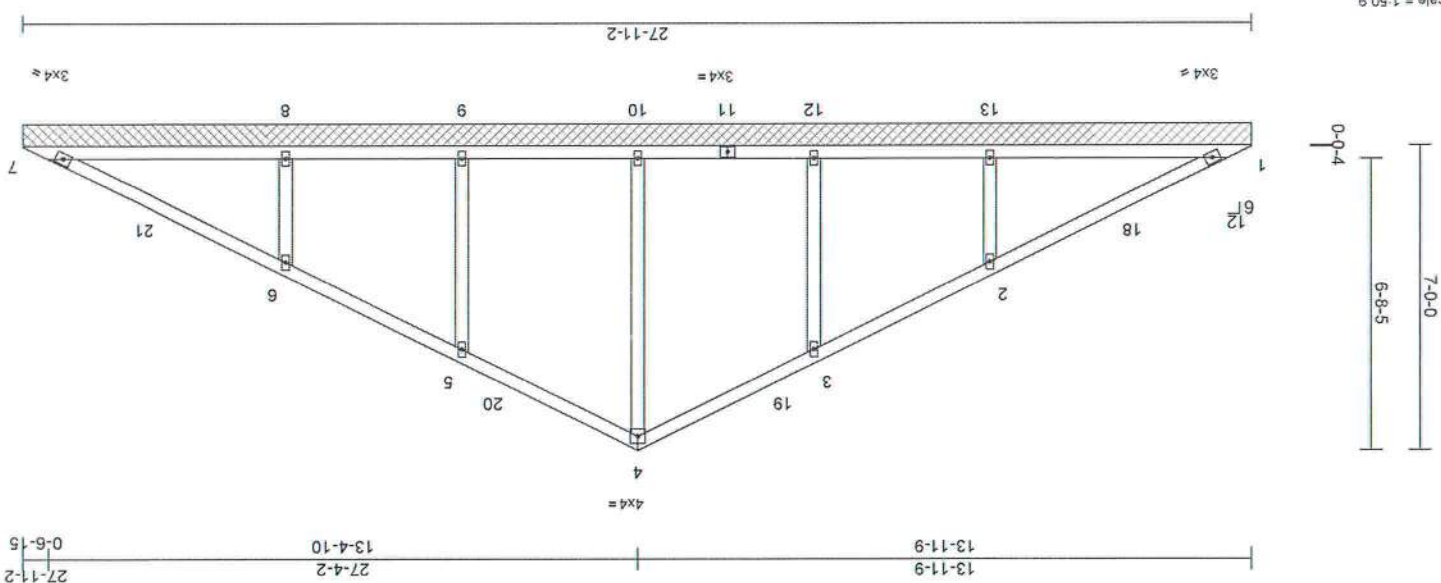
Max Uplift
1=50 (LC 11), 11=8 (LC 10),
12=35/31-11-2, 13=308/31-11-2,
14=33/31-11-2, 15=330/31-11-2,
16=332/31-11-2, 17=308/31-11-2,
18=35/31-11-2

TOP CHORD
1=245/151, 2-4=121/167, 4-5=48/207,
5-6=103/282, 6-7=104/258, 7-8=49/131,
8-10=33/99, 10-11=180/101,
11-12=84/194,
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Job Reference (optional)	T26407471
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Builders FirstSource (Groveland, FL), Groveland, FL - 34736,

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Loading	Spacing	Plate Gmp DOL	Lumber DOL	Rep Stress Incr	Code	FBC2020/TP12014	Matrix-AS	DEFLL	in (loc)	l/dell	L/d	GRIP	MT20	Weight: 116 lb	FT = 20%
BCDL	10.0						WB	0.36	Horiz(TL)	0.01	8	n/a	n/a		
BCLL	0.0						BC	0.27	Vert(TL)	n/a	-	999	999		
TCDL	10.0						TC	0.32	Vert(LL)	n/a	-	999	999		
TCLL (roof)	20.0						CSI								

[illegible]

(2) Wind: ASHRAE 1-16; V_{ref}=14m/s (3-second gust)
V_{50m}=108m/s; TCDL=4.2psf; BCDL=5.0psf; h=25ft;
Cat II, Exp C; Enclosed; MWFRS (envelope) exterior
zone and C-C; Exterior(2E) 0-0-8 to 3-0-8, interior (1)
3-0-8 to 11-0-1, Exterior(2R) 11-0-1 to 17-0-1, interior (1)
17-0-1 to 24-1-1-10, Exterior(2E) 24-1-1-10 to 27-1-1-10
zone; and vertical left and right exposed; C-C for
members and forces & MWFRS for reactions shown;
Lumber DOL=1.60 plate grip DOL=1.60
3) 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.
4) Building Designer / Project engineer responsible for
verifying applied roof live load shown covers rain loading
requirements specific to the use of this truss component.
5) All plates are 2x4 M120 unless otherwise indicated.
6) Gable requires continuous bottom chord bearing.
7) Gable studs spaced at 4'-0" oc.
8) This truss has been designed for a 10.0 psf bottom
chord live load nonconcurrent with any other live loads.
9) * This truss has been designed for a live load of 20.0psf
on the bottom chord in all areas where a rectangle
3'-06"-00 tall by 2'-00"-00 wide will fit between the bottom
chord and any other members, with BCDL = 10.0psf.
10) Provide mechanical connection (by others) of truss to
bearing plate capable of withstanding 38 lb uplift at joint
1, 32 lb uplift at joint 7, 58 lb uplift at joint 10, 208 lb
uplift at joint 12, 328 lb uplift at joint 13, 208 lb uplift at
joint 9 and 326 lb uplift at joint 8.
11) This truss design requires that a minimum of 7/16"
structural wood sheathing be applied directly to the top
chord and 1/2" gypsum sheetrock be applied directly to the
bottom chord.

This item has been electronically signed and sealed by Oregon, Phillip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Phillip J. O'Regan PE No. 58126
MITOX USA, Inc. FL Cert 6834
6804 Parkside East Blvd, Tampa FL 33610
Date: January 4, 2022

Philip J. O'Regan PE No. 58126
Mittek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

January 4, 2022

Warning - Verify design parameters and READ ALL NOTES ON THIS AND INCLUDED MITER REFERENCE PAGE M17-472 rev. 5/19/2020 BEFORE USE.

Designing and/or installing with MITER connectors. This design is based only upon parameters shown, and is for individual component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANSI/TPI Quality Criteria, DSB-89 and BCSP Building Component available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20681

MITek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	V05	Valley	Qty	1	Ply	1	Job Reference (optional)	T26407472
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Builders FirstSource (Groveand, FL) - 34736.

Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 Mitek Industries, Inc. Wed Dec 29 18:47:13

Page: 1

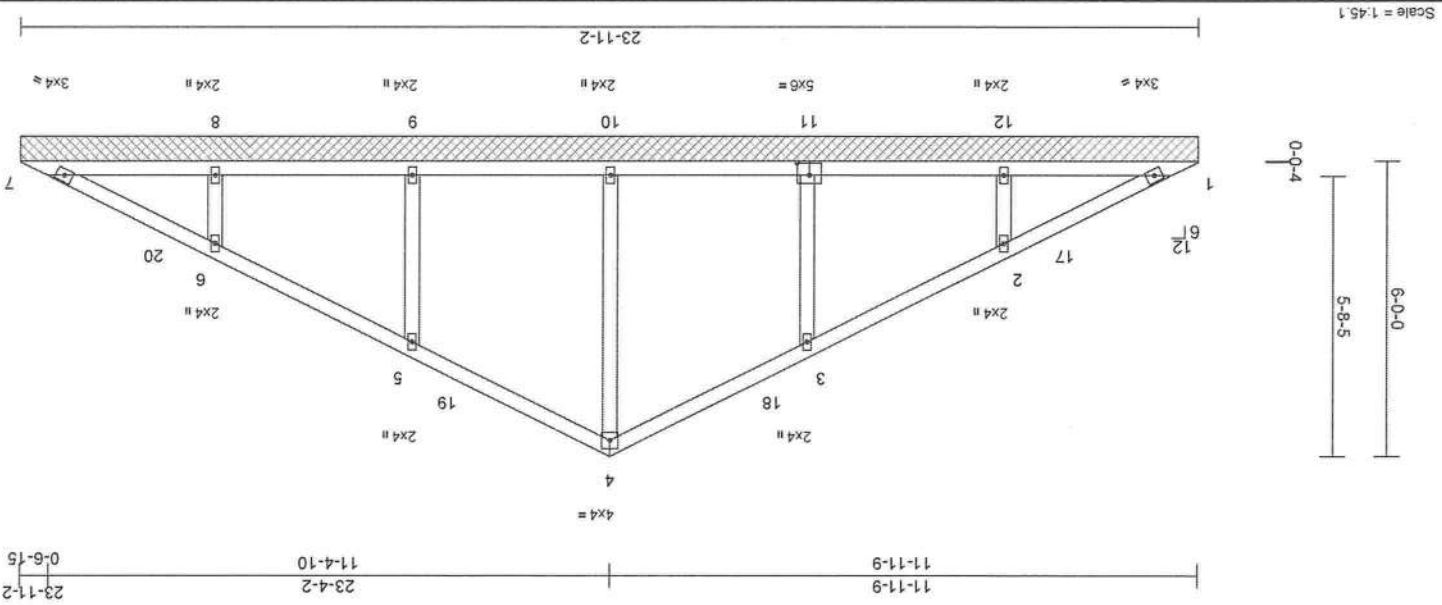


Plate Offsets (X, Y): [11:0-3-0,0-0-3-0]

Loading	Spacing	Code	Matrix-AS	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	Weight: 96 lb	FT = 20%
TCLL (roof)	20.0	Plate Gnp DOL	TC	Vert(UL)	0.17	n/a	n/a	999	MT20	244/190		
TCDL	10.0	Lumber DOL	BC	Vert(TL)	0.18	n/a	-	n/a				
BCLL	0.0 *	Rep Stress Incr	WB	Horz(TL)	0.17	0.00	7	n/a				
BCDL	10.0							n/a				

LUMBER	2x4 SP No.2	Wind: ASCE 7-16; Vult=140mph (3-second gust)
TOP CHORD	2x4 SP No.2	Vasd=108mph; TCDL=4.2psf; BCDL=5.0psf; h=25ft;
BOT CHORD	2x4 SP No.2	Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior
OTHERS	2x4 SP No.3	zone and C-C Exterior(2E) 0-0-8 to 3-0-8, Interior (1)
BRACING		15-0-1 to 20-1-1-10, Exterior(2R) 9-0-1 to 15-0-1, Interior (1)
TOP CHORD		3-0-8 to 9-0-1, Exterior(2R) 9-0-1 to 15-0-1, Interior (1)
BOT CHORD		15-0-1 to 20-1-1-10, Exterior(2E) 20-1-1-10 to 23-1-1-10
RECTIONS	(lb/size)	members and forces & MWFRS for reactions shown;
		Lumber DOL=1.60 plate gnp 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,
		Building Designer / Project engineer responsible for
		verifying applied roof live load shown covers rain loading
		requirements specific to the use of this truss component.
		All plates are 2x4 MT20 unless otherwise indicated.
		Gable requires continuous bottom chord bearing.
		Gable studs spaced at 4'-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
		3-06-00 tall by 2-00-00 wide will fit between the bottom
		chord and any other members, with BCDL = 10.0psf.
		10) Provide mechanical connection (by others) of truss to
		bearing plate capable of withstanding 4.3 lb uplift at joint
		1, 24 lb uplift at joint 7, 10 lb uplift at joint 10, 24.2 lb
		uplift at joint 11, 238 lb uplift at joint 12, 241 lb uplift at
		joint 9 and 236 lb uplift at joint 8.
		11) This truss design requires that a minimum of 7/16"
		structural wood sheathing be applied directly to the top
		chord and 1/2" gypsum sheetrock be applied directly to
		the bottom chord.
		LOAD CASE(S) Standard

This item has been electronically signed and sealed by O'Regan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

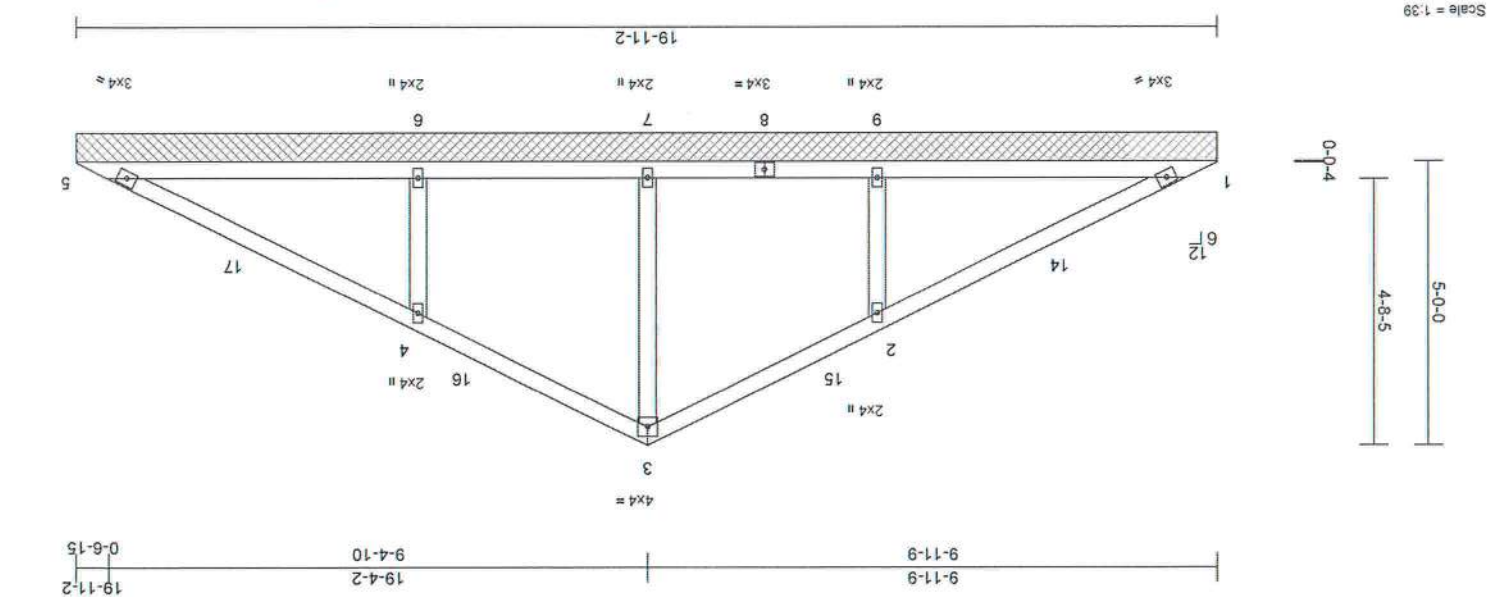
Philip J. O'Regan PE No.58126
Mitek USA, Inc. FL Cert 6634
8904 Park East Blvd, Tampa FL 33610
Date: January 4, 2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITTEK REFERENCE PAGE MII-7473 REV. 5/19/2020 BEFORE USE. Design valid for use only with Mitek connectors. This design is based upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI Quality Criteria, DSB-89 and BCSI Building Component** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
2904837	V06	Valley	1	1	T26407473

Builders FirstSource (Groveand, FL - 34796, Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 Mittek Industries, Inc. Wed Dec 29 18:47:14 ID:AKH4ZafazufHqSGP28041y6n8q-RfC7P8B70Hq3NSgPqnlBw3uITXbGKwVrCD07J4ZU7f



Loading	Spacing	Code	Matrix-AS	DEFLL	in (loc)	l/defl	L/d	PLATES	GRIP	Weight: 75 lb	FT = 20%
TCLL (roof)	20.0	Plate Grip DOL	1.25	0.34	n/a	-	n/a	999	244/190		
TCCL	10.0	Lumber DOL	1.25	0.25	n/a	-	n/a	999	MT20		
BCLL	0.0	Rep Stress Incr	YES	0.18	0.00	9	n/a	n/a			
BCDL	10.0										

LUMBER	TOP CHORD	2x4 SP No.2
OTHERS	2x4 SP No.3	
BRACING	Structural wood sheathing directly applied.	
RECTIONS	(lb/size)	
Max Horiz	1-126 (LC 15)	
Max Uplift	1-20 (LC 11), 5-37 (LC 11), 6-344 (LC 11), 7-86 (LC 10), 9-346 (LC 10), 1-114 (LC 21), 5-114 (LC 22), 6-491 (LC 22), 7-447 (LC 1), 9-491 (LC 21)	
FORCES	(lb) - Maximum Compression/Maximum Tension	
TOP CHORD	1-2-213/350, 2-3-38/307, 3-4-18/307, 4-5-185/350	
BOT CHORD	1-9-241/249, 7-9-241/249, 6-7-241/249, 5-6-241/249	
WEBS	3-7-413/205, 2-9-342/352, 4-6-342/351	
NOTES		
1) Unbalanced roof live loads have been considered for this design.		
2) Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=108mph; TCCL=4.2psf; BCCL=5.0psf; n=25ft; Cat II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-8 to 3-0-8, Interior (1) 13-0-1 to 16-1-10, Exterior(2E) 16-1-10 to 19-1-10 zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60		

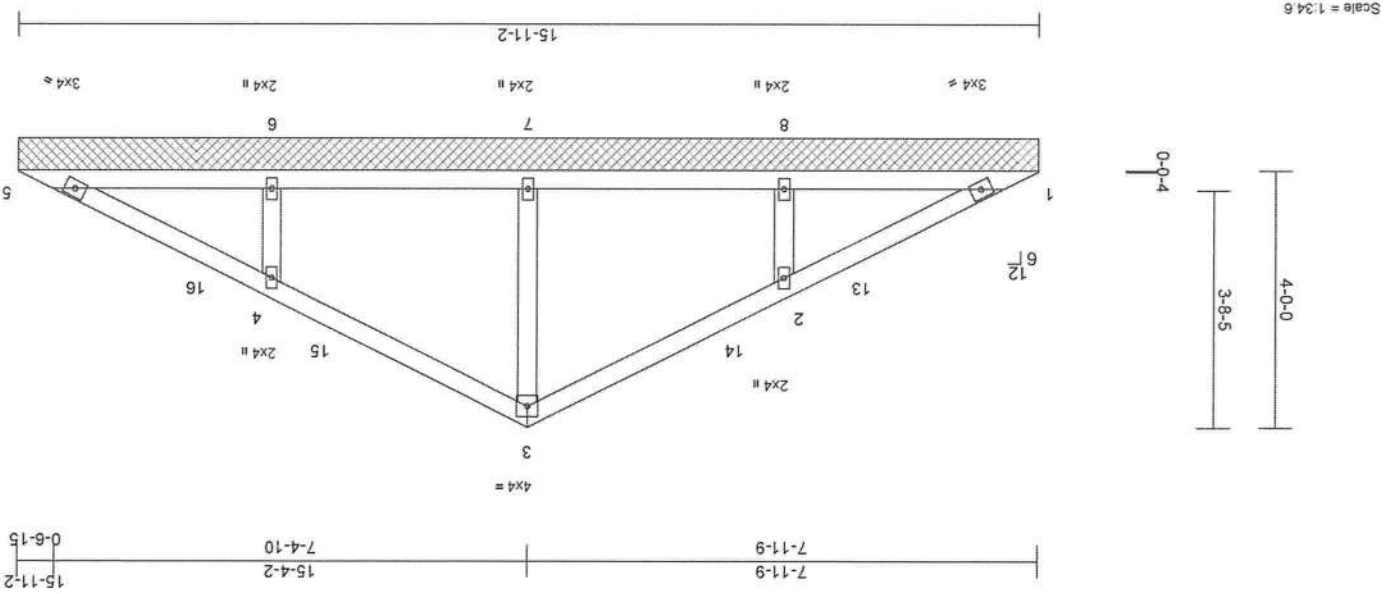
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Philip J. O'Regan PE No.58126
Mittek USA, Inc. FL Cert 8834
6904 Parke East Blvd, Tampa FL 33610
Date: January 4, 2022

Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
2904837	V07	Valley	1	1	T26407474

Builders FirstSource (Groveland, FL - 34736.

Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 Mittek Industries, Inc. Wed Dec 29 18:47:14 ID:AKH4ZaZu0HhQswGP28041y6n8q-RfC7P5B70Hq3NSgPqnlBw3uITXBGKWkDCoi7J4ZJC7f



Loading	Spacing	Code	FB2020/TP2104	Matrix-AS	DEFLL	in	(loc)	I/defl	L/D	PLATES	Weight: 58 lb	FT = 20%
TCCL (roof)	20.0	Plate Grip DOL	1.25	TC	0.20	n/a	-	n/a	999	MT20		
TCDL	10.0	Lumber DOL	1.25	BC	0.12	n/a	-	n/a	999			
BCLL	0.0*	Rep Stress Incr	YES	WB	0.09	Horz(TL)	0.00	6	n/a			
BCDL	10.0								n/a			

3) 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, Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.

4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

5) Gable requires continuous bottom chord bearing. Gable studs spaced at 4'-0-0 oc.

6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

8) * This truss has been designed for a live load of 20 psf on the bottom chord in all areas where a rectangle 3'-06-00 tall by 2'-00-00 wide will fit between the bottom chord and any other members.

9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 36 lb uplift at joint at joint 8 and 259 lb uplift at joint 6.

10) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard

RECTIONS (lb/size)
1=96/15-11-2, 5=96/15-11-2, 6=363/15-11-2, 7=357/15-11-2, 8=363/15-11-2

BRACING
TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied.

FORCES
Max Horiz 1=-100 (LC 11)
Max Uplift 1=-36 (LC 11), 5=-37 (LC 11), 6=-259 (LC 11), 7=-67 (LC 10), 8=-260 (LC 10)
Max Grav 1=101 (LC 21), 5=101 (LC 22), 6=370 (LC 22), 7=357 (LC 1), 8=370 (LC 21)

Tension
(lb) - Maximum Compression/Maximum
1=-139/141, 2=-3=-2/153, 3=-4=-2/136, 4=-5=-139/132, 5=-6=-90/125, 6=-7=-90/125, 7=-8=-90/125, 8=-90/125

TOP CHORD
1-2=-139/141, 2-3=-2/153, 3-4=-2/136, 4-5=-139/132, 5-6=-90/125, 6-7=-90/125, 7-8=-90/125, 8-9=-90/125

WEBS
3-7=-269/197, 2-8=-265/319, 4-6=-265/319

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; V-III=140mph (3-second gust) V-asd=108mph; TCCL=4.2psf, BCCL=5.0psf, h=25ft; Cat. II; Exp. C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-8 to 3-0-8, Interior (1) 3-0-8 to 5-0-1, Exterior(2E) 5-0-1 to 11-0-1, Interior (1) 11-0-1 to 12-11-10, Exterior(2E) 12-11-10 to 15-11-10 zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown;

Lumber DOL=1.60 plate grip DOL=1.60

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITTEK REFERENCE PAGE MII-7-473 rev. 5/19/2020 BEFORE USE
Design valid for use only with Mittek connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see
ANSI/TPI Quality Criteria, DSB-89 and BCSI Building Component available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



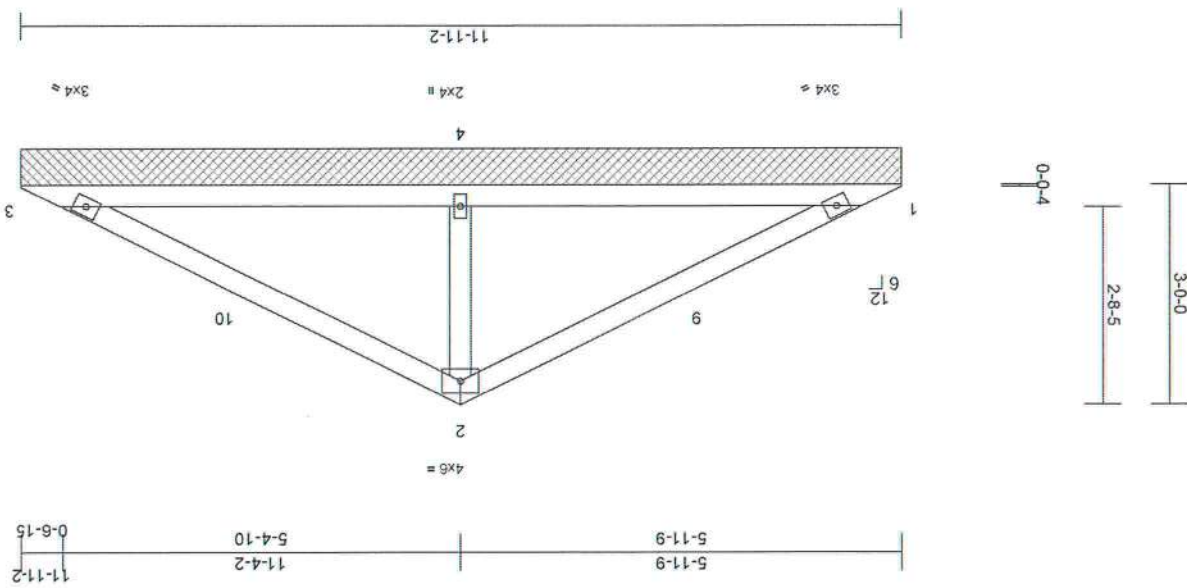
6904 Parke East Blvd.
Tampa, FL 33610

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Philip J. O'Regan PE No.56126
Mittek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date: January 4, 2022

Job	2904837	Truss	V08	Truss Type	Valley	Qty	1	Ply	1	Job Reference (optional)	T26407475
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Builders FirstSource (Groveland, FL) - 34736.



Scale = 1/30.3

Loading	Spacing	Code	FBC2020/TP12014	Matrix-AS	DEFL	in (loc)	i/defl	L/d	PLATES	GRIP	Weight: 39 lb	FT = 20%
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.33	n/a	-	n/a	999	MT20	244/190	
BCLL	10.0	Lumber DOL	1.25	WB	0.38	n/a	-	n/a	999			
BCDL	10.0	Rep Stress Incr	YES	WB	0.22	0.00	4	n/a	n/a			

LUMBER

TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.2
OTHERS	2x4 SP No.3

BRACING

TOP CHORD	Structural wood sheathing directly applied.
BOT CHORD	Rigid ceiling directly applied.

REACTIONS

Max Horiz	1=74 (LC 14)
Max Uplift	1=28 (LC 22), 3=42 (LC 11), 4=354 (LC 10)
Max Grav	1=91 (LC 21), 3=91 (LC 22), 4=871 (LC 1)

FORCES

TOP CHORD	1-2=-350/456, 2-3=-350/456
BOT CHORD	1-4=-346/433, 3-4=-346/433
WEBS	2-4=-682/747

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16: Vult=140mph (3-second gust)
Vasd=108mph; TCCL=4.2psf; BCCL=5.0psf; h=25ft;
Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-8 to 3-0-8, Exterior(2R) 3-0-8 to 8-11-10, Exterior(2E) 8-11-10 to 11-11-10 zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) 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.
- 4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 5) Gable requires continuous bottom chord bearing.

LOAD CASE(S) Standard

- 6) Gable studs spaced at 4'-0-0 oc.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) * This truss has been designed for a live load of 20.0 psf on the bottom chord in all areas where a rectangle 3'-0-0 tall by 2'-0-0 wide will fit between the bottom chord and any other members.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 28 lb uplift at joint 1, 42 lb uplift at joint 3 and 354 lb uplift at joint 4.
- 10) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

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Philip J. O'Regan PE No. 58126
MITTEK USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date: January 4, 2022



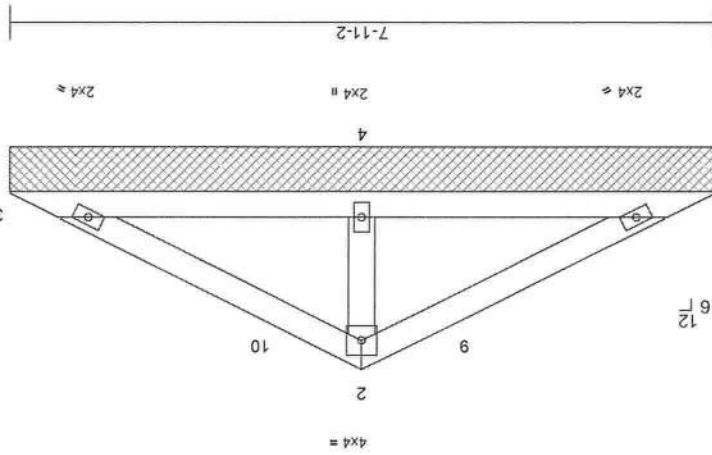
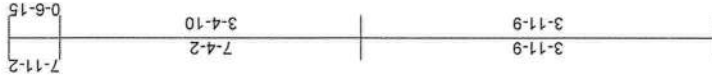
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Tampa, FL 33610

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITTEK REFERENCE PAGE MII-743 rev. 5/19/2020 BEFORE USE. Design valid for use only with MITTEK connectors. This design is based upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI Quality Criteria, DSB-69 and BCS Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601.

Job	Truss	V09	Valley	Truss Type	Qty	1	Ply	1	Job Reference (optional)	T26407476
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Builders FirstSource (Groveland, FL) Groveland, FL - 34736.

Run: 8:43 S Oct 11 2021 Print: 8:43 S Oct 11 2021 Mitek Industries, Inc. Wed Dec 29 18:47:14
ID: wtrm7bBbn20USzm1tCEy6nsp-RIC7Psb70Hq3NSgPgnLbw3uITXbGKwVrCD0i7J4zC7i



Loading	(psf)	Spacing	2-0-0	Code	FBC2020/TP12014	Matrix-AS	DEFLECT	in	(loc)	l/defl	L/d	PLATES	MT20	244/190	GRIP	Weight 25 lb	FT = 20%
BCDL	10.0						Horiz(TL)	0.13			4	n/a	999	n/a			
BCLL	0.0						Vert(TL)	0.18			-	n/a	999	n/a			
TCDL	10.0						Vert(UL)	0.14			-	n/a	999	n/a			
TCLL (roof)	20.0						DEFLECT	0.13			4	n/a	999	n/a			

LUMBER	TOP CHORD	2x4 SP No.2
BRACING	TOP CHORD	2x4 SP No.2
OTHERS	2x4 SP No.3	
REACTIONS	(lb/size)	1=64/7-11-2, 3=64/7-11-2, 4=507/7-11-2
BOT CHORD	Rigid ceiling directly applied.	
TOP CHORD	Structural wood sheathing directly applied.	
FORCES	(lb) - Maximum Compression/Maximum	
WEBS	2-4=-369/449	
NOTES	1) Unbalanced roof live loads have been considered for this design.	
TOP CHORD	1-2=-157/219, 2-3=-157/219	
BOT CHORD	1-4=-181/234, 3-4=-181/234	

- Gable studs spaced at 4'-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'-06-00 tall by 2'-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 36 lb uplift at joint 1, 47 lb uplift at joint 3 and 198 lb uplift at joint 4.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard

- Wind: ASCE 7-16: V-III=140mph (3-second gust) Vasd=108mph; TCCL=4.2psf; BCCL=5.0psf; h=25ft; Cal. II: Exp C: Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-8 to 3-0-8, Exterior(2R) 3-0-8 to 4-11-10, Exterior(2E) 4-11-10 to 7-11-10 zone; end vertical left and right exposed; 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.
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Gable requires continuous bottom chord bearing.

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITTEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE
Design valid for use only with Mitek connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

Mitek
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Tampa, FL 33610

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Philip J. O'Regan PE No. 58126
Mitek USA, Inc. FL Cert 6634
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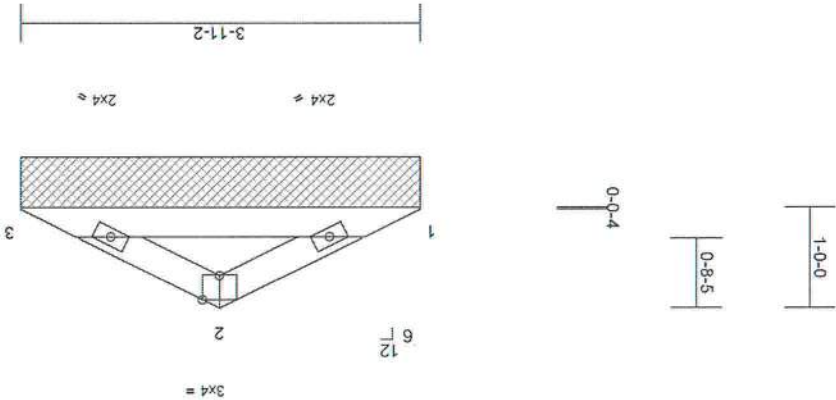
Date: January 4, 2022

Job	Truss	Truss Type	Qty	PLY	Job Reference (optional)
2904837	V10	Valley	1	1	T26407477

Builders FirstSource (Groveand, FL), Groveand, FL - 34736.

Run: B.43 S Oct 11 2021 Print: B.430 S Oct 11 2021 Mittek Industries, Inc. Wed Dec 29 18:47:15 ID: g5rJr71k1t_gAW7a19mky6IEU-RIC7P5B70Hq3NSgPqnlBw3uITXBGKwCDoi7J4zJC7v

3-11-2	1-11-9	3-4-2	1-4-10	0-6-15
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LOADING	SPACING	2-0-0	CSI	DEFL	in (loc)	l/defl	L/d	PLATES	GRIP	Weight: 10 lb	FT = 20%
BCDL	10.0	0.0	WB	0.00	Horz(TL)	0.00	3	n/a	n/a		
BCLL	0.0	0.0	BC	0.10	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	1.25	TC	0.12	Vert(LL)	n/a	999	MT20	244/190		

- 8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3'-06-00 tall by 2'-00-00 wide will fit between the bottom chord and any other members.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 67 lb uplift at joint 1 and 67 lb uplift at joint 3.
- LOAD CASE(S) Standard

LUMBER	TOP CHORD	2x4 SP No.2
BRACING	TOP CHORD	2x4 SP No.2
REACTIONS	(lb/size)	1=157/3-11-2, 3=157/3-11-2
Max Horiz	1=22 (LC 10)	
Max Uplift	1=67 (LC 10), 3=67 (LC 11)	
FORCES	(lb) - Maximum Compression/Maximum Tension	
TOP CHORD	1-2=-274/287, 2-3=-274/287	
BOT CHORD	1-3=-235/236	

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=108mph; TC DL=4.2psf; BC DL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone; end vertical left and right exposed; C-C for members and forces & MWFRS DOL=1.60
- 3) 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. Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 5) Gable requires continuous bottom chord bearing.
- 6) Gable studs spaced at 4'-0-0 oc.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

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Philip J. O'Regan PE No.58126
Mittek USA, Inc. FL Cert 6634
6904 Parke East Blvd, Tampa FL 33610

Date: January 4, 2022



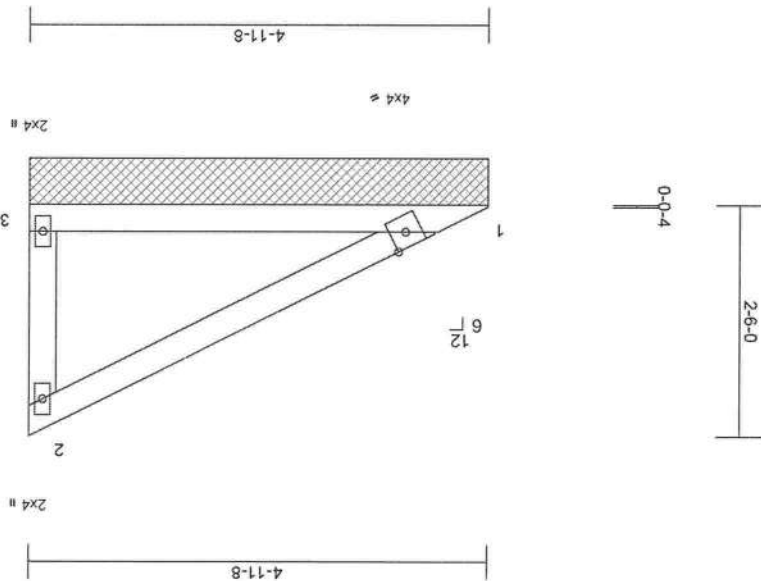
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Job	Truss	V11	Valley	Truss Type	Qty	1	Ply	1	Job Reference (optional)	T26407478
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Builders FirstSource (Groveand, FL), Groveand, FL - 34736.

Run: 8:43 S Oct 11 2021 Print: 8:430 S Oct 11 2021 Mitek Industries, Inc. Wed Dec 29 18:47:15
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Scale = 1/24

Loading	Spacing	Code	FBC2020/TP12014	Matrix-AS	DEFL	in	(loc)	i/defl	L/d	PLATES	GRIP	Weight: 17 lb	FT = 20%
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.34	0.40	0.00	Horiz(TL)	-0.01	3	n/a	n/a	
TCDL	10.0	Lumber DOL	1.25	BC	0.40	0.40	0.00	Vert(TL)	n/a	999	999	n/a	
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	0.40	0.00	Horiz(TL)	-0.01	3	n/a	n/a	
BCDL	10.0												

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.

BOT CHORD except end verticals.

Rigid ceiling directly applied.

REACTIONS

Max Horiz 1=136 (LC 7)

Max Uplift 1=-85 (LC 10), 3=-118 (LC 10)

FORCES

(lb) - Maximum Compression/Maximum

Tension 1-2=-346/292, 2-3=-124/193

BOT CHORD 1-3=-348/287

NOTES

1) Wind: ASCE 7-16; Vult=140mph (3-second gust)

Vasd=106mph; TCDDL=4.2psf; BCDDL=5.0psf; h=25ft;

Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior

zone and C-C Exterior(2E) zone; end vertical left and

right exposed; C-C for members and forces & MWFRS

for reactions shown; Lumber DOL=1.60 plate grip

DOL=1.60

2) 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.

Building Designer / Project engineer responsible for

verifying applied roof live load shown covers rain loading

requirements specific to the use of this truss component.

4) Gable requires continuous bottom chord bearing.

5) Gable studs spaced at 4'-0" oc.

6) 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'-0"-0" tall by 2'-0"-0" wide will fit between the bottom

chord and any other members.

8) Provide mechanical connection (by others) of truss to

bearing plate capable of withstanding 118 lb uplift at joint

3 and 65 lb uplift at joint 1.

9) This truss design requires that a minimum of 7/16"

structural wood sheathing be applied directly to the top

chord and 1/2" gypsum sheetrock be applied directly to

the bottom chord.

LOAD CASE(S) Standard

- 4) Gable requires continuous bottom chord bearing.
- 5) Gable studs spaced at 4'-0" oc.
- 6) 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'-0"-0" tall by 2'-0"-0" wide will fit between the bottom chord and any other members.

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6904 Parke East Blvd
Tampa, FL 33610

January 4, 2022

Date:

6904 Parke East Blvd, Tampa FL 33610

Mitek USA, Inc. FL Cent 6634

Philip J. O'Regan PE No.58126

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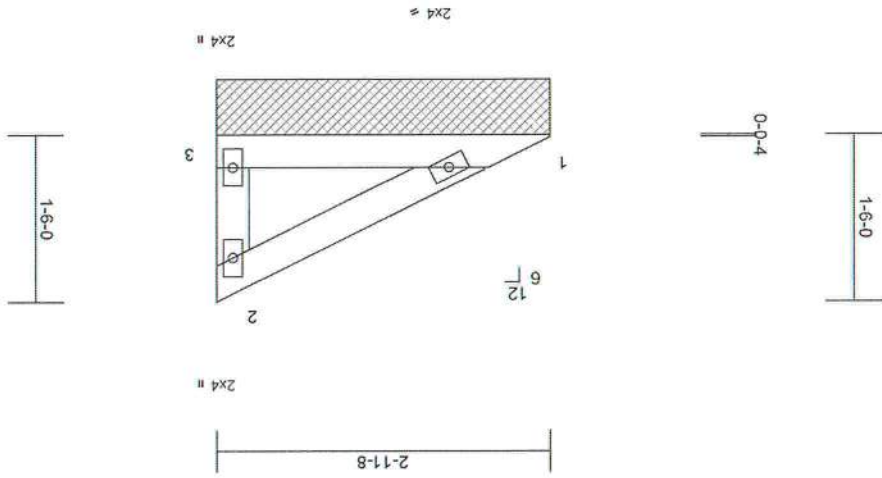
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Job	2904837	Truss	V12	Valley	Truss Type	Qty	1	Py	1	Job Reference (optional)	T26407479
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Builders FirstSource (GroveLand, FL), GroveLand, FL - 34736.



Scale = 1/16" = 1'-0"

Loading	Spacing	Code	FB2020/TP12014	Matrix-MP	DEFL	In (loc)	I/dell	L/d	PLATES	GRIP	Weight: 10 lb	FT = 20%
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.08	0.12	Vert(TL)	n/a	999	MT20	244/190	
TCDL	10.0	Lumber DOL	1.25	BC	0.12	0.00	Vert(TL)	n/a	999			
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	0.00	Horz(TL)	3	n/a			
BCDL	10.0								n/a			

LUMBER	TOP CHORD	2x4 SP No.2	7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3'-0"-0" tall by 2'-0"-0" wide will fit between the bottom chord and any other members.
BRACING	TOP CHORD	2x4 SP No.3	8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 50 lb uplift at joint 1 and 68 lb uplift at joint 3.
RECTIONS	Max Horiz	1=74 (LC 7)	LOAD CASE(S) Standard
FORCES	Max Uplift	1=50 (LC 10), 3=68 (LC 10)	
TOP CHORD	1-2=-172/144, 2-3=-67/98		
NOTES	1) Wind: ASCE 7-16; Vult=140mph (3-second gust)		

- Wind: ASCE 7-16; Vult=140mph (3-second gust)
- 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.
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4'-0" oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

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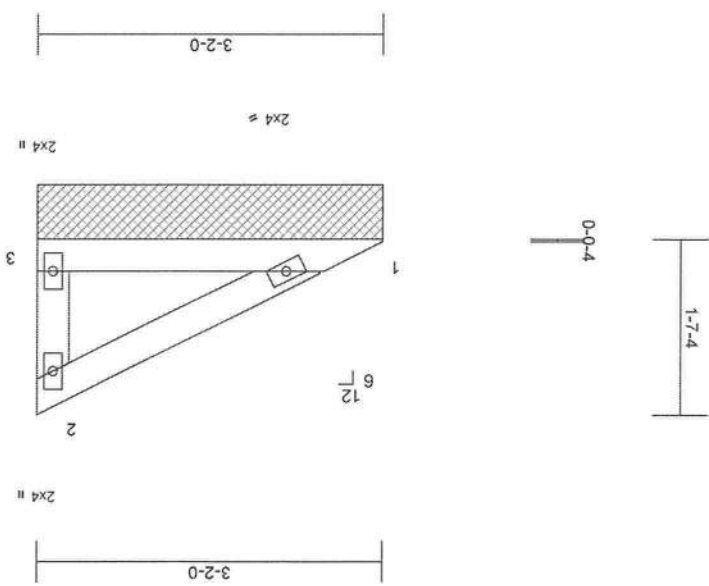
Philip J. O'Regan PE No. 58126
MITek USA, Inc. FL Cert 6634
6904 Parke East Blvd, Tampa FL 33610

Date: January 4, 2022

Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
2904837	V13	Valley	1	1	T26407480

Builders FirstSource (Groveand, FL), Groveand, FL - 34736.

Run: 8:43 S Oct 11 2021 Print: 8:43 S Oct 11 2021 Mitek Industries, Inc. Wed Dec 29 18:47:15
ID: RvmmhgkQ8G1RA0wxxknbk17y6IEV-RfC7P5B70Hq3NSgPgnL8w3uITXBGKwvCD0i7J4zJC7r



Scale = 1/20.3

Loading	Spacing	Code	Matrix-MP	DEFLL	In	(loc)	i/defl	L/d	PLATES	GRIP	Weight: 10 lb	FT = 20%
TCLL (roof)	20.0	Plate Grip DOL	1.25	0.10	0.15	0.00	3	n/a	999	MT20	244/190	
TCDL	10.0	Lumber DOL	1.25	0.15	0.15	0.00	3	n/a	999	MT20	244/190	
BCLL	0.0*	Rep Stress Incr	YES	0.00	0.15	0.00	3	n/a	999	MT20	244/190	
BCDL	10.0											

- 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 3-2-0 oc purlins, except end verticals.
 - BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
- REACTIONS**
- (lb/size) 1=121/3-2-0, 3=121/3-2-0
 - Max Horiz 1=81 (LC 7)
 - Max Uplift 1=54 (LC 10), 3=73 (LC 10)
 - (lb) - Maximum Compression/Maximum Tension
- FORCES**
- TOP CHORD 1-2=-190/160, 2-3=-73/108
 - BOT CHORD 1-3=-190/158
- NOTES**
- Wind: ASCE 7-16; Vult=140mph (3-second gust)
 - Wsd=108mph; TCDL=4.2psf; BCDL=5.0psf; h=25ft; Cat II; Exp C; Enclosed; MWFRS (envelope) exterior
 - zone and C-C Exterior(2E) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip

- LOAD CASE(S)** Standard
- 7) This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3'-06-00 tall by 2'-00-00 wide will fit between the bottom chord and any other members.
 - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 73 lb uplift at joint 3 and 54 lb uplift at joint 1.

- 2) 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. Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - 4) Gable requires continuous bottom chord bearing.
 - 5) Gable studs spaced at 4'-0-0 oc.
 - 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- This item has been electronically signed and sealed by O'Regan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Date: January 4, 2022
Philip J. O'Regan PE No.58126
Mitek USA, Inc. FL Cert 8634
6904 Parke East Blvd, Tampa FL 33610



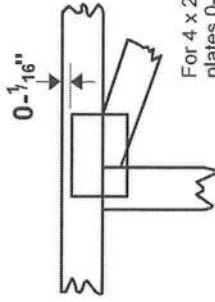
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MILL-7473 rev. 5/19/2020 BEFORE USE a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members and properly incorporate this design into the overall fabrication, erection and bracing of trusses and truss systems. See **ANSI/TPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

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Symbols

PLATE LOCATION AND ORIENTATION

Center plate on joint unless x, y offsets are indicated. Dimensions are in ft-in-sixteenths. Apply plates to both sides of truss and fully embed teeth.



For 4 x 2 orientation, locate plates 0- $\frac{1}{16}$ " from outside edge of truss.

This symbol indicates the required direction of slots in connector plates.

* Plate location details available in MiTek 20/20 software or upon request.

PLATE SIZE

4 X 4

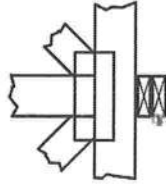
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



Indicated by symbol shown and/or by text in the bracing section of the output. Use T or I bracing if indicated.

BEARING

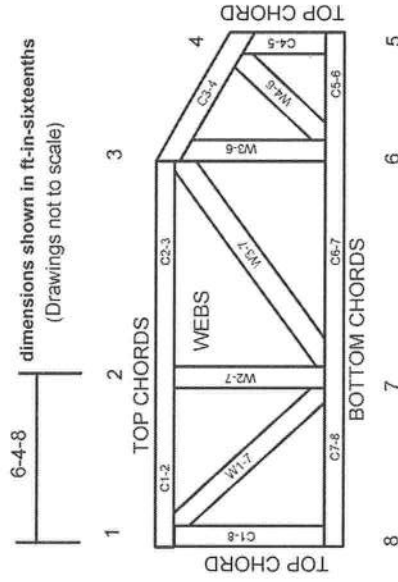


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

Industry Standards:

ANSI/TPI1: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-89: Design Standard for Bracing.
BCSI: Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

Numbering System



JOINTS ARE GENERALLY NUMBERED/LETTERED CLOCKWISE AROUND THE TRUSS STARTING AT THE JOINT FARTHEST TO THE LEFT.

CHORDS AND WEBS ARE IDENTIFIED BY END JOINT NUMBERS/LETTERS.

PRODUCT CODE APPROVALS

ICC-ES Reports:

ESR-1311, ESR-1352, ESR1988
ER-3907, ESR-2362, ESR-1397, ESR-3282

Trusses are designed for wind loads in the plane of the truss unless otherwise shown.

Lumber design values are in accordance with ANSI/TPI 1 section 6.3 These truss designs rely on lumber values established by others.

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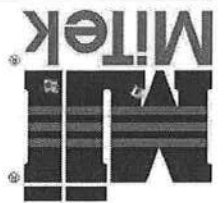


MiTek Engineering Reference Sheet: MIL-7473 rev. 5/19/2020

General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

1. Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI.
2. Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor I bracing should be considered.
3. Never exceed the design loading shown and never slack materials on inadequately braced trusses.
4. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
5. Cut members to bear tightly against each other.
6. Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI 1.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
8. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
9. Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
10. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
11. Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
12. Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
13. Top chords must be sheathed or purlins provided at spacing indicated on design.
14. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
15. Connections not shown are the responsibility of others.
16. Do not cut or alter truss member or plate without prior approval of an engineer.
17. Install and load vertically unless indicated otherwise.
18. Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
19. Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
20. Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.
21. The design does not take into account any dynamic or other loads other than those expressly stated.



Lumber design values are in accordance with ANSI/TPI 1 section 6.3
These truss designs rely on lumber values established by others.

RE: Details -

MITek USA, Inc.
6904 Parke East Blvd.
Tampa, FL 33610-4115

Site Information:

Customer Info: Project Name: Subdivision: Address: City: State: Name: Address: City: State: License #:

Name Address and License # of Structural Engineer of Record, If there is one, for the building.

General Truss Engineering Criteria & Design Loads (Individual Truss Design Drawings Show Special Loading Conditions):

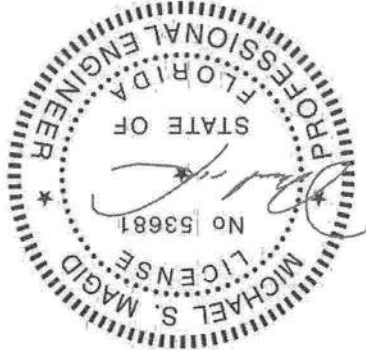
Design Code: FBC2020/TP12014
Wind Code: ASCE 7-16
Roof Load: Varies
Floor Load: Varies

This package includes 19 individual, MITek General Details and 0 Additional Drawings.
With my seal affixed to this sheet, I hereby certify that I am the Truss Design Engineer and this index sheet conforms to 61G15-31.003, section 5 of the Florida Board of Professional Engineers Rules.

No.	Sea#	Truss Name	Date
1	T23949105	MII-T-BRACE 2	5/17/21
2	T23949106	MII-WEBBRACE-2	5/17/21
3	T23949107	MII-SCAB-BRACE	5/17/21
4	T23949108	MII-REFP05	5/17/21
5	T23949109	MII-GE-130-D-SP	5/17/21
6	T23949110	MII-GE-130-SP	5/17/21
7	T23949111	LETTER	5/17/21
8	T23949112	MII-GE170-D-SP	5/17/21
9	T23949113	MII-GE-180-D-SP	5/17/21
10	T23949114	MII-PIGGY-7-16	5/17/21
11	T23949115	MII-PIGGY-ALT-7-16	5/17/21
12	T23949116	MII-REFP01A1	5/17/21
13	T23949117	MII-TOKENAIL SP	5/17/21
14	T23949118	MII-VALLEY HIGH WIND1	5/17/21
15	T23949119	MII-VALLEY HIGH WIND2	5/17/21
16	T23949120	MII-VALLEY-SP	5/17/21
17	T23949121	MII-VALLEY	5/17/21
18	T23949122	MII-REP13B	5/17/21
19	T23949123	MII-STRGBCK	5/17/21

The truss drawing(s) referenced above have been prepared by MITek USA, Inc. under my direct supervision based on the parameters provided by Builders FirstSource-Jacksonville.
Truss Design Engineer's Name: Magid, Michael
My license renewal date for the state of Florida is February 28, 2023.

IMPORTANT NOTE: The seal on these truss component designs is a certification that the engineer named is licensed in the jurisdiction(s) identified and that the designs comply with ANSI/TPI 1. These designs are based upon parameters shown (e.g., loads, supports, dimensions, shapes and design codes), which were given to MITek or TRENCO. Any project specific information included is for MITek's or TRENCO's customers file reference purpose only, and was not taken into account in the preparation of these designs. MITek or TRENCO has not independently verified the applicability of the design parameters or the designs for any particular building. Before use, the building designer should verify applicability of design parameters and properly incorporate these designs into the overall building design per ANSI/TPI 1, Chapter 2.

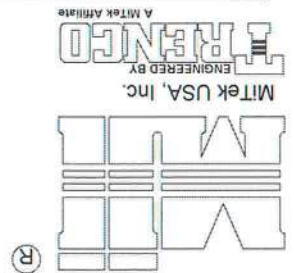


Michael S. Magid PE No. 53681
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6904 Parke East Blvd. Tampa FL 33610
Date: May 17, 2021

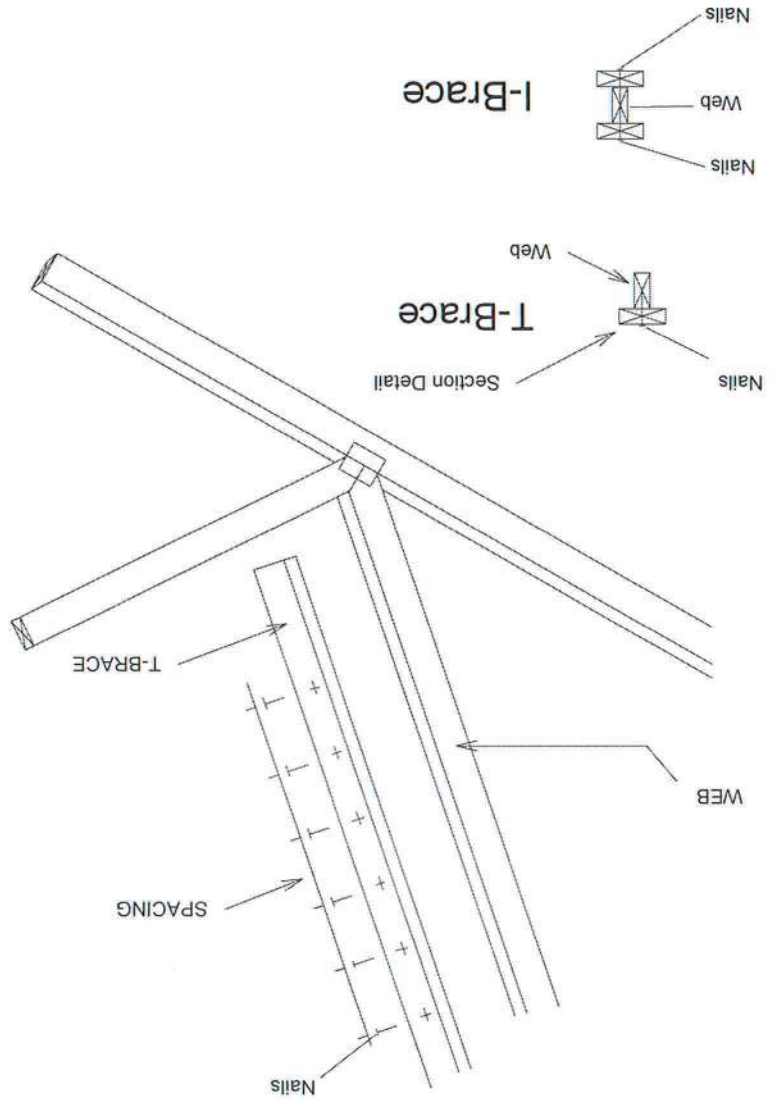
AUGUST 1, 2016

T-BRACE / I-BRACE DETAIL WITH 2X BRACE ONLY

MII-T-BRACE 2



Nailing Pattern		
T-Brace size	Nail Size	Nail Spacing
2x4 or 2x6 or 2x8	10d (0.131" X 3")	6" o.c.
Note: Nail along entire length of T-Brace / I-Brace (On Two-Ply's Nail to Both Plies)		



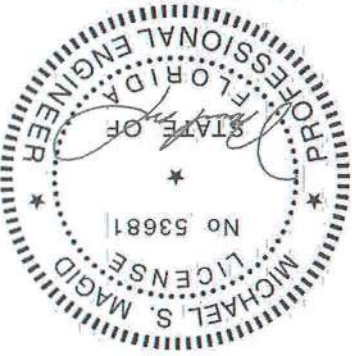
Note: T-Bracing / I-Bracing to be used when continuous lateral bracing is impractical. T-Brace / I-Brace must cover 90% of web length.

Note: This detail NOT to be used to convert T-Brace / I-Brace webs to continuous lateral braced webs.

Brace Size for One-Ply Truss	Specified Continuous Rows of Lateral Bracing		Web Size	2x3 or 2x4	2x6	2x8
2	1	2x4 T-Brace	2x4 I-Brace	2x6 T-Brace	2x6 I-Brace	2x8 T-Brace

Brace Size for Two-Ply Truss	Specified Continuous Rows of Lateral Bracing		Web Size	2x3 or 2x4	2x6	2x8
2	1	2x4 T-Brace	2x4 I-Brace	2x6 T-Brace	2x6 I-Brace	2x8 T-Brace

T-Brace / I-Brace must be same species and grade (or better) as web member.



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ANSI/TPI Quality Criteria, DSB-89 and BCS Building Component
Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601
fabrication, storage, delivery, erection and bracing of trusses and truss systems. For general guidance regarding the

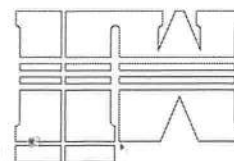
APRIL 9, 2020

WEB BRACING RECOMMENDATIONS

MII-WEBBRACE-2

T123949106

®



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MAXIMUM TRUSS WEB FORCE (lbs.) ⁷									
BRACE BAY SIZE ⁸	24" O.C. TRUSS SPACING		48" O.C. TRUSS SPACING		BRACING MATERIAL TYPE		BRACING MATERIAL TYPE		BRACING MATERIAL TYPE
	A	B	A	B	C	B	C	B	C
	10'-0"	1886	1886	2829	2829	1886	1886	3143	4715
12'-0"	1572	1572	2358	3143	4715	2358	3143	4715	7074
14'-0"	1347	1347	2021	2358	3143	2358	3143	4715	7074
16'-0"	1179	1179	1768	2358	3143	2358	3143	4715	7074
18'-0"	1048	1048	1572	2358	3143	2358	3143	4715	7074
20'-0"	943	943	1414	2358	3143	2358	3143	4715	7074

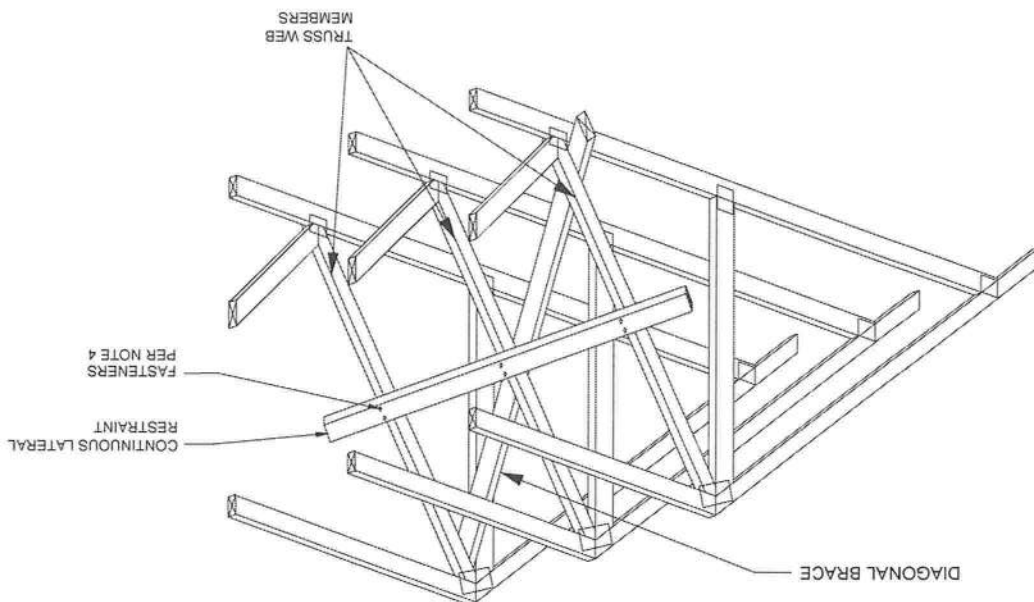
GENERAL NOTES

1. DIAGONAL BRACING AND BLOCKING IS REQUIRED TO TRANSFER THE CUMULATIVE LATERAL BRACE FORCE INTO THE ROOF AND/OR CEILING DIAPHRAGM. THE DIAPHRAGM IS AND ANY BLOCKING TO BE DESIGNED BY A QUALIFIED PROFESSIONAL.
2. TABULATED VALUES ARE BASED ON LATERAL BRACE CARRYING 2% OF THE WEB FORCE WITH A DOL = 1.15.
3. DIAGONAL BRACING MATERIAL MUST BE SAME SIZE AND GRADE OR BETTER, AS THE LATERAL BRACE MATERIAL AND SHALL BE INSTALLED IN SUCH A MANNER THAT IT INTERSECTS WEB MEMBERS AT APPROX. 45 DEGREES AND SHALL BE NAILED AT EACH END AND EACH INTERMEDIATE TRUSS WITH 2 - (0.131"x3") FOR 2x3 AND 2x4 BRACES, AND 3 - (0.131"x3") FOR 2x6 BRACES.
4. CONNECT LATERAL BRACE TO EACH TRUSS WITH 2 - (0.131"x3") NAILS FOR 2x3 AND 2x4 LATERAL BRACES AND 3 - (0.131"x3") FOR 2x6 LATERAL BRACES.
5. LATERAL BRACE SHOULD BE CONTINUOUS AND SHOULD OVERLAP AT LEAST ONE TRUSS SPACE FOR CONTINUITY.
6. FOR ADDITIONAL GUIDANCE REGARDING DESIGN AND INSTALLATION OF BRACING, CONSULT DSB-89 TEMPORARY BRACING OF METAL PLATE CONNECTED WOOD TRUSSES AND BCSI 1 GUIDE TO GOOD PRACTICE FOR HANDLING, INSTALLING, RESTRAINING & BRACING OF METAL PLATE CONNECTED WOOD TRUSSES, PRODUCED BY STRUCTURAL BUILDING COMPONENT ASSOCIATION, www.sbcindustry.com
7. REFER TO SPECIFIC MITTEK TRUSS DESIGN DRAWING FOR WEB MEMBER FORCE.
8. BAY SIZE SHALL BE MEASURED IN BETWEEN THE CENTERS OF PAIRS OF DIAGONALS.

FOR STABILIZERS:

FOR A SPACING OF 24" O.C. ONLY, MITTEK "STABILIZER" TRUSS BRACING SYSTEMS CAN BE SUBSTITUTED FOR TYPE A, B AND C BRACING MATERIAL. DIAGONAL BRACING FOR STABILIZERS ARE TO BE PROVIDED AT BAY SIZE INDICATED ABOVE WHERE DIAPHRAGM BRACING IS REQUIRED AT PITCH BREAKS. STABILIZERS MAY BE REPLACED WITH WOOD BLOCKING. SEE "STABILIZER" TRUSS BRACING INSTALLATION GUIDE AND PRODUCT SPECIFICATION.

TYPE	BRACING MATERIALS
A	2 X 3 #3, STD. CONST (SPF, DF, HF, OR SP)
B	2 X 4 #3, STD. CONST (SPF, DF, HF, OR SP)
C	2 X 6 #3 OR BETTER (SPF, DF, HF, OR SP)



This information is provided to assist in the requirement for permanent bracing of the individual truss web members. Additional bracing may still be required for the stability of the overall roof system. The method shown here is just one method that can be used to provide stability against web buckling. Engineering seal, if any, is supporting the web force chart only.

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITTEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with Mittek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members and properly incorporate this design into the overall building design. Bracing required for stability and to prevent collapse of trusses and truss systems. See **ANSI/TPI Quality Criteria, DSB-89 and BCSI Building Component** for general guidance regarding the **ANSI/TPI Quality Criteria, DSB-89 and BCSI Building Component** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

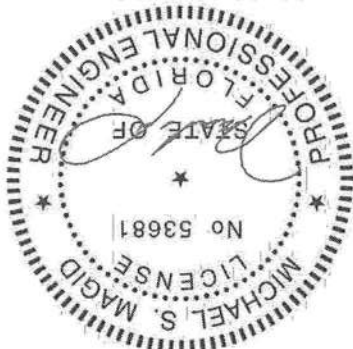
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Tampa, FL 33610



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Date:

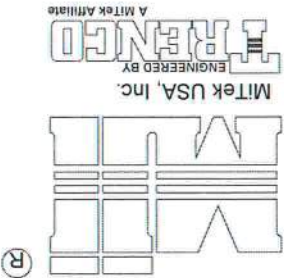
May 17, 2021



Note: Scab-Bracing to be used when continuous lateral bracing at midpoint (or T-Brace) is impractical.

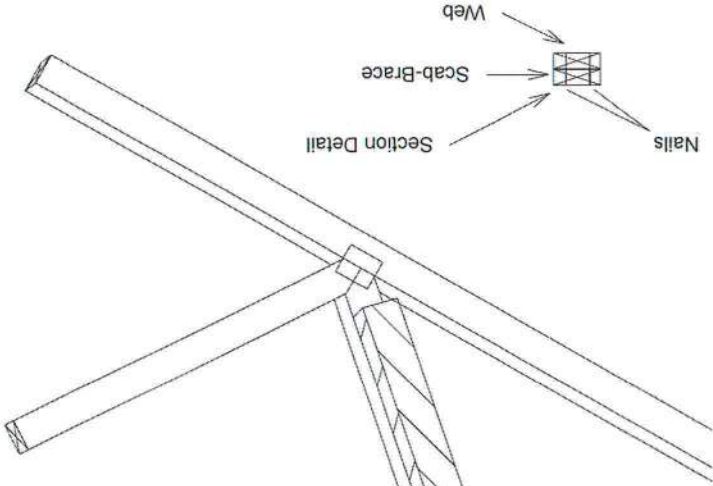
Scab must cover full length of web +/- 6".

*** THIS DETAIL IS NOT APPLICABLE WHEN BRACING IS REQUIRED AT 1/3 POINTS OR I-BRACE IS SPECIFIED.

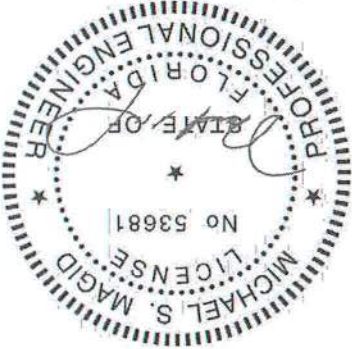


APPLY 2x SCAB TO ONE FACE OF WEB WITH 2 ROWS OF 10d (0.131" X 3") NAILS SPACED 6" O.C. SCAB MUST BE THE SAME GRADE, SIZE AND SPECIES (OR BETTER) AS THE WEB.

SCAB BRACE
 MAXIMUM WEB AXIAL FORCE = 2500 lbs
 MAXIMUM WEB LENGTH = 12'-0"
 2x4 MINIMUM WEB SIZE
 MINIMUM WEB GRADE OF #3



Scab-Brace must be same species grade (or better) as web member.



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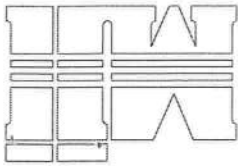
May 17, 2021

AUGUST 1, 2016

STANDARD REPAIR TO REMOVE END
VERTICAL (RIBBON NOTCH VERTICAL)

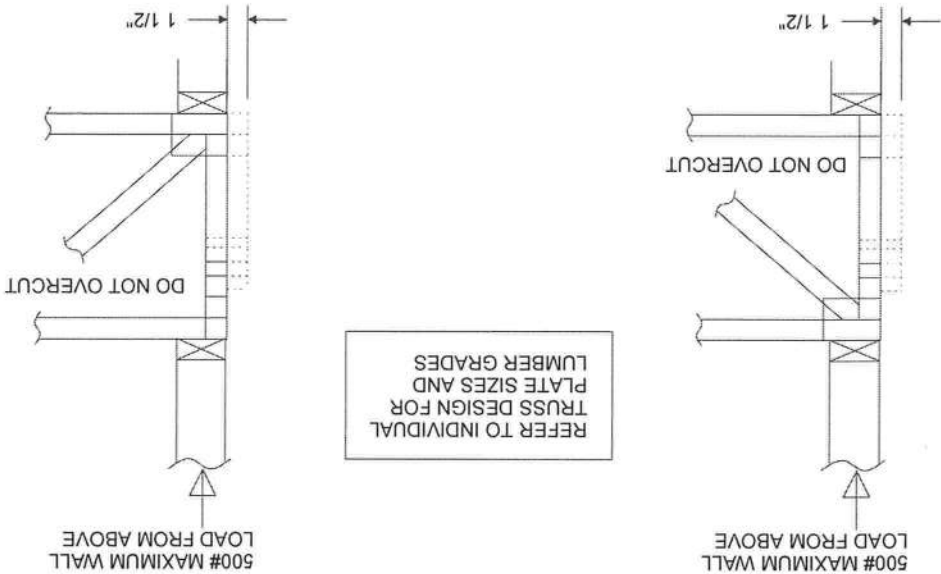
MII-REP05

(R)

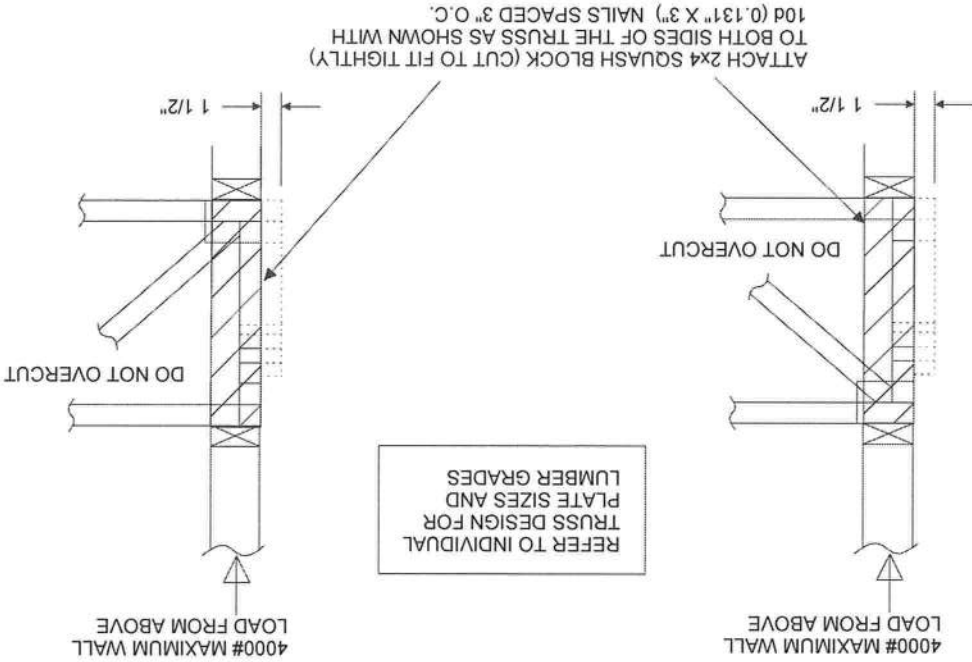


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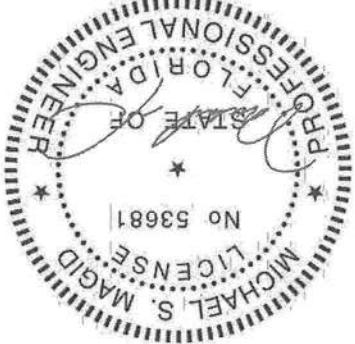
1. THIS IS A SPECIFIC REPAIR DETAIL TO BE USED ONLY FOR ITS ORIGINAL INTENTION. THIS REPAIR DOES NOT IMPLY THAT THE REMAINING PORTION OF THE TRUSS IS UNDAMAGED. THE ENTIRE TRUSS SHALL BE INSPECTED TO VERIFY THAT NO FURTHER REPAIRS ARE REQUIRED. WHEN THE REQUIRED REPAIRS ARE PROPERLY APPLIED, THE TRUSS WILL BE CAPABLE OF SUPPORTING THE LOADS INDICATED.
2. ALL MEMBERS MUST BE RETURNED TO THEIR ORIGINAL POSITIONS BEFORE APPLYING REPAIR AND HELD IN PLACE DURING APPLICATION OF REPAIR.
3. THE END DISTANCE, EDGE DISTANCE, AND SPACING OF NAILS SHALL BE SUCH AS TO AVOID SPLITTING OF THE WOOD.
4. LUMBER MUST BE CUT CLEANLY AND ACCURATELY AND THE REMAINING WOOD MUST BE UNDAMAGED.
5. THIS REPAIR IS TO BE USED FOR SINGLE PLY TRUSSES IN THE 4X ORIENTATION ONLY.
6. CONNECTOR PLATES MUST BE FULLY IMBEDDED AND UNDISTURBED.



TRUSSES BUILT
WITH 4x2 MEMBERS



TRUSSES BUILT
WITH 4x2 MEMBERS

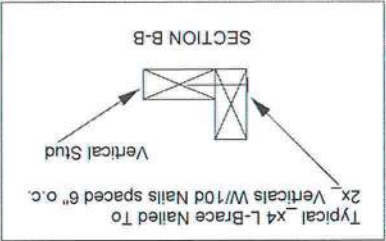
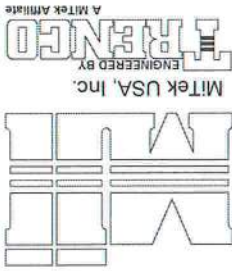


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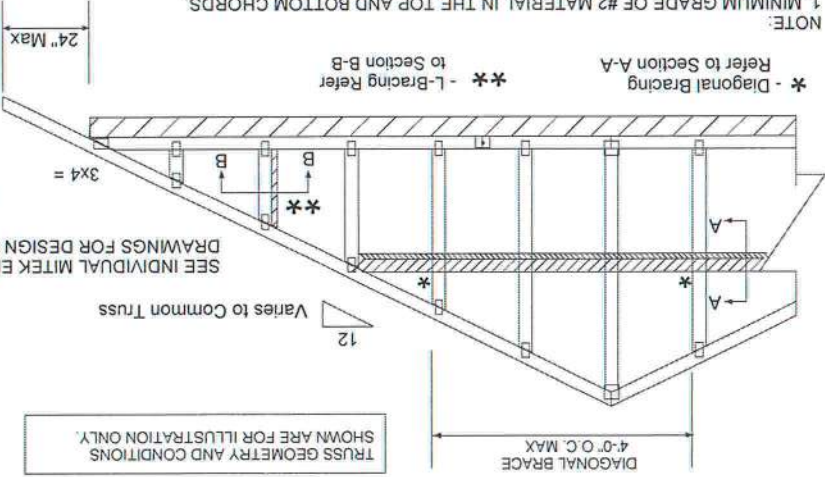
May 17, 2021

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TRUSS GEOMETRY AND CONDITIONS SHOWN ARE FOR ILLUSTRATION ONLY.



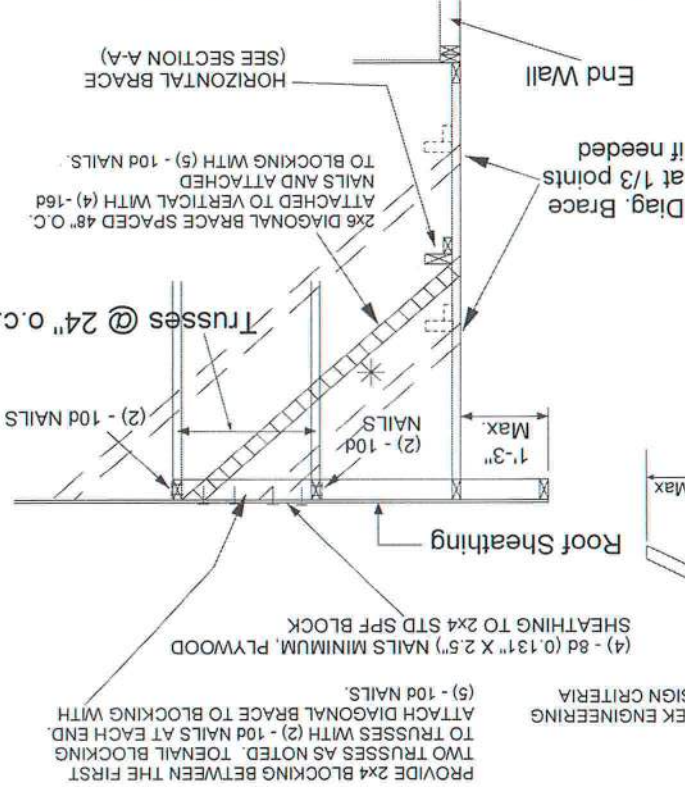
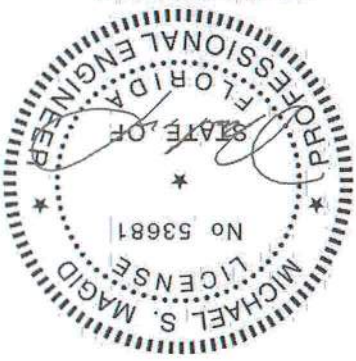
- NOTE:
1. MINIMUM GRADE OF #2 MATERIAL IN THE TOP AND BOTTOM CHORDS.
 2. CONNECTION BETWEEN BOTTOM CHORD OR GABLE END TRUSS AND WALL TO BE PROVIDED BY PROJECT ENGINEER OR ARCHITECT.
 3. BRACING SHOWN IS FOR INDIVIDUAL TRUSS ONLY. CONSULT BLDG. ARCHITECT OR ENGINEER FOR TEMPORARY AND PERMANENT BRACING OF ROOF SYSTEM.
 4. "L" BRACES SPECIFIED ARE TO BE FULL LENGTH. GRADES: 1x4 SRS OR 2x4 STUD OR BETTER WITH ONE ROW OF 10d NAILS SPACED 6" O.C. DIAPHRAGM AT 4'-0" O.C.
 5. DIAGONAL BRACE TO BE APPROXIMATELY 45 DEGREES TO ROOF.
 6. CONSTRUCT HORIZONTAL BRACE CONNECTING A 2x6 STUD AND A 2x4 STUD AS SHOWN WITH 16d NAILS SPACED 6" O.C. HORIZONTAL ATTACH TO BE LOCATED AT THE MIDSPAN OF THE LONGEST STUD.
 7. GABLE STUD DEFLECTION MEETS OR EXCEEDS L/240. (REFER TO SECTION A-A)
 8. THIS DETAIL DOES NOT APPLY TO STRUCTURAL GABLES.
 9. DO NOT USE FLAT BOTTOM CHORD GABLES NEXT TO SCISSOR TYPE TRUSSES.
 10. SOUTHERN PINE LUMBER DESIGN VALUES ARE THOSE EFFECTIVE 06-01-13 BY SPIB/ALSC.
 11. NAILS DESIGNATED 10d ARE (0.131" X 3") AND NAILS DESIGNATED 16d ARE (0.131" X 3.5")

Minimum Stud Size Species and Grade	Stud Spacing	Without Brace	1x4 L-Brace	2x4 L-Brace	DIAGONAL BRACE	2 DIAGONAL BRACES AT 1/3 POINTS
2x4 SP No. 3 / Stud	12" O.C.	3-9-13	4-1-1	5-9-6	7-1-3	11-5-7
2x4 SP No. 3 / Stud	16" O.C.	3-5-4	3-6-8	5-0-2	6-10-8	10-3-13
2x4 SP No. 3 / Stud	24" O.C.	2-9-11	2-10-11	4-1-1	5-7-6	8-5-1

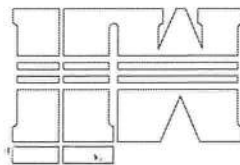
* Diagonal braces over 6'-3" require a 2x4 T-Brace attached to one edge. Diagonal braces over 12'-6" require 2x4 L-braces attached to both edges. Fasten T and L braces to narrow edge of diagonal brace with 10d nails 8" o.c. with 3" minimum end distance. Brace must cover 90% of diagonal length.

MAX MEAN ROOF HEIGHT = 30 FEET
CATEGORY II BUILDING
EXPOSURE D
ASCE 7-98, ASCE 7-02, ASCE 7-05 130 MPH
ASCE 7-10 160 MPH
DURATION OF LOAD INCREASE: 1.00

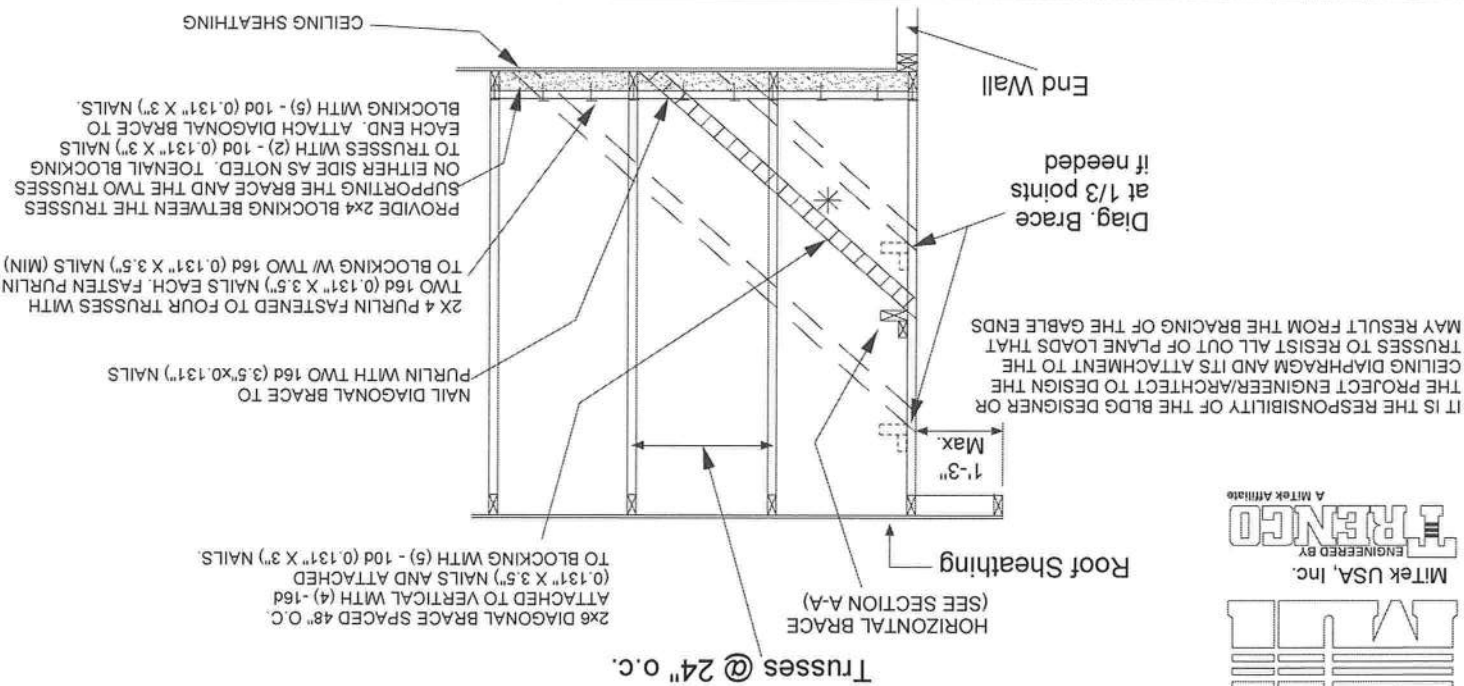
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ALTERNATE DIAGONAL BRACING TO THE BOTTOM CHORD

BRACING REQUIREMENTS FOR STRUCTURAL GABLE TRUSSES

STRUCTURAL GABLE TRUSSES MAY BE BRACED AS NOTED:

METHOD 1: ATTACH A MATCHING GABLE TRUSS TO THE INSIDE FACE OF THE STRUCTURAL GABLE AND FASTEN PER THE FOLLOWING NAILING SCHEDULE.

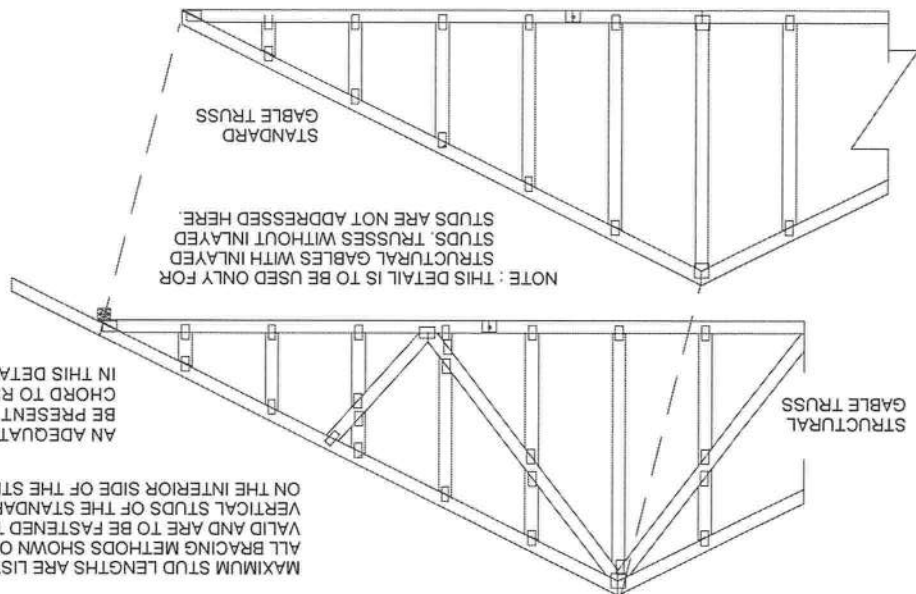
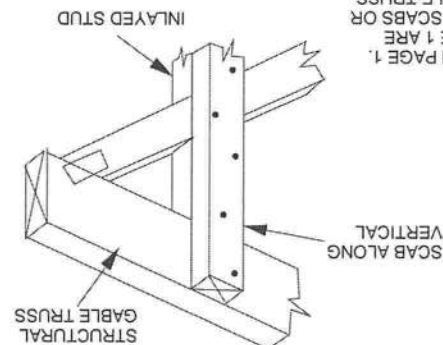
METHOD 2: ATTACH 2X - SCABS TO THE FACE OF EACH VERTICAL MEMBER ON THE STRUCTURAL GABLE PER THE FOLLOWING NAILING SCHEDULE. SCABS ARE TO BE OF THE SAME SIZE, GRADE AND SPECIES AS THE TRUSS VERTICALS

NAILING SCHEDULE:

- FOR WIND SPEEDS 120 MPH (ASCE 7-98, 02, 05), 150 MPH (ASCE 7-10, 16) OR LESS, NAIL ALL MEMBERS WITH ONE ROW OF 10d (0.131" x 3") NAILS SPACED 6" O.C.
- FOR WIND SPEEDS 120-150 MPH (ASCE 7-98, 02, 05), 150-190 MPH (ASCE 7-10, 16) NAIL ALL MEMBERS WITH TWO ROWS OF 10d (0.131" x 3") NAILS SPACED 6" O.C. (2X 4 STUDS MINIMUM)

MAXIMUM STUD LENGTHS ARE LISTED ON PAGE 1. ALL BRACING METHODS SHOWN ON PAGE 1 ARE VALID AND ARE TO BE FASTENED TO THE SCABS OR VERTICAL STUDS OF THE STANDARD GABLE TRUSS ON THE INTERIOR SIDE OF THE STRUCTURE.

AN ADEQUATE DIAPHRAGM OR OTHER METHOD OF BRACING MUST BE PRESENT TO PROVIDE FULL LATERAL SUPPORT OF THE BOTTOM CHORD TO RESIST ALL OUT OF PLANE LOADS. THE BRACING SHOWN IN THIS DETAIL IS FOR THE VERTICAL STUDS ONLY.



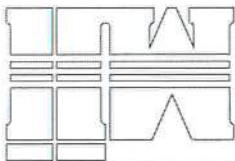
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APRIL 12, 2019

Standard Gable End Detail

MII-GE130-SP

®

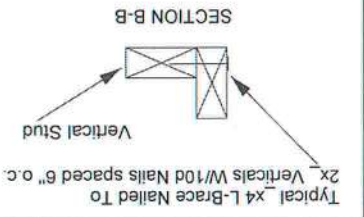


Mittek USA, Inc.

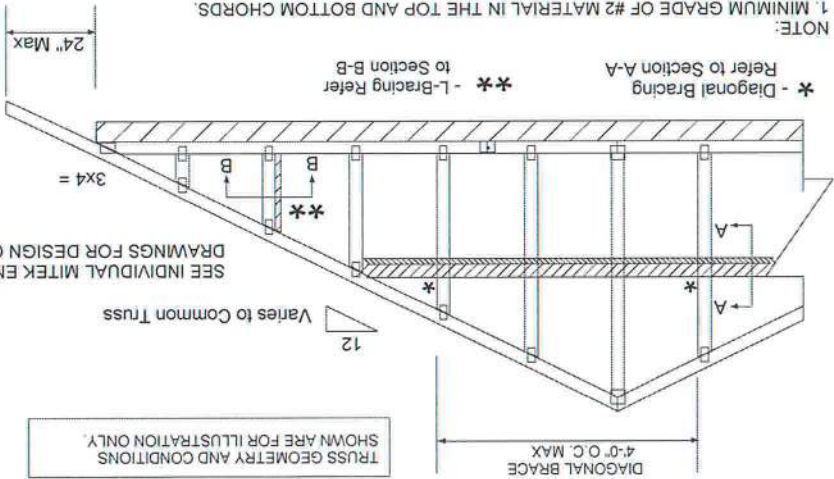
ENGINEERED BY

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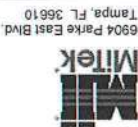
- NOTE:
1. MINIMUM GRADE OF #2 MATERIAL IN THE TOP AND BOTTOM CHORDS
 2. CONNECTION BETWEEN BOTTOM CHORD OF GABLE END TRUSS AND WALL TO BE PROVIDED BY PROJECT ENGINEER OR ARCHITECT
 3. BRACING SHOWN IS FOR INDIVIDUAL TRUSS ONLY. CONSULT BLDG. ARCHITECT OR ENGINEER FOR TEMPORARY AND PERMANENT BRACING OF ROOF SYSTEM
 4. "L" BRACES SPECIFIED ARE TO BE FULL LENGTH. GRADES: 1x4 SRB OR 2x4 STUD OR BETTER WITH ONE ROW OF 10d NAILS SPACED 6" O.C. DIAGONAL BRACE TO BE APPROXIMATELY 45 DEGREES TO ROOF DIAPHRAM AT 4'-0" O.C.
 5. 2x4 STUD AS SHOWN WITH 16d NAILS SPACED 6" O.C. HORIZONTAL BRACE TO BE LOCATED AT THE MIDSPAN OF THE LONGEST STUD. ATTACH TO BE LOCATED STUDS WITH (4) 10d NAILS THROUGH 2x4. (REFER TO SECTION A-A)
 7. GABLE STUD DEFLECTION MEETS OR EXCEEDS L/240.
 8. THIS DETAIL DOES NOT APPLY TO STRUCTURAL GABLES.
 9. DO NOT USE FLAT BOTTOM CHORD GABLES NEXT TO SCISSOR TYPE TRUSSES.
 10. SOUTHERN PINE LUMBER DESIGN VALUES ARE THOSE EFFECTIVE 06-01-13 BY SP18/ALSC.
 11. NAILS DESIGNATED 10d ARE (0.131" X 3") AND NAILS DESIGNATED 16d ARE (0.131" X 3.5")

Minimum Stud Size and Species	Stud Spacing	Without Brace	1x4 L-Brace	2x4 L-Brace	DIAGONAL BRACE	2 DIAGONAL BRACES AT 1/3 POINTS
2x4 SP No. 3 / Stud	12" O.C.	4-0-7	4-5-6	6-3-8	8-0-15	12-1-6
2x4 SP No. 3 / Stud	16" O.C.	3-8-0	3-10-4	5-5-6	7-4-1	11-0-1
2x4 SP No. 3 / Stud	24" O.C.	3-0-10	3-1-12	4-5-6	6-1-5	9-1-15

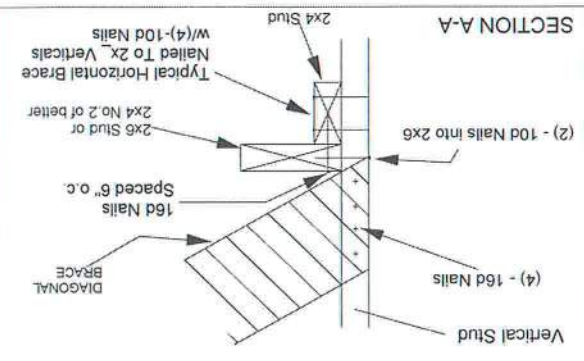
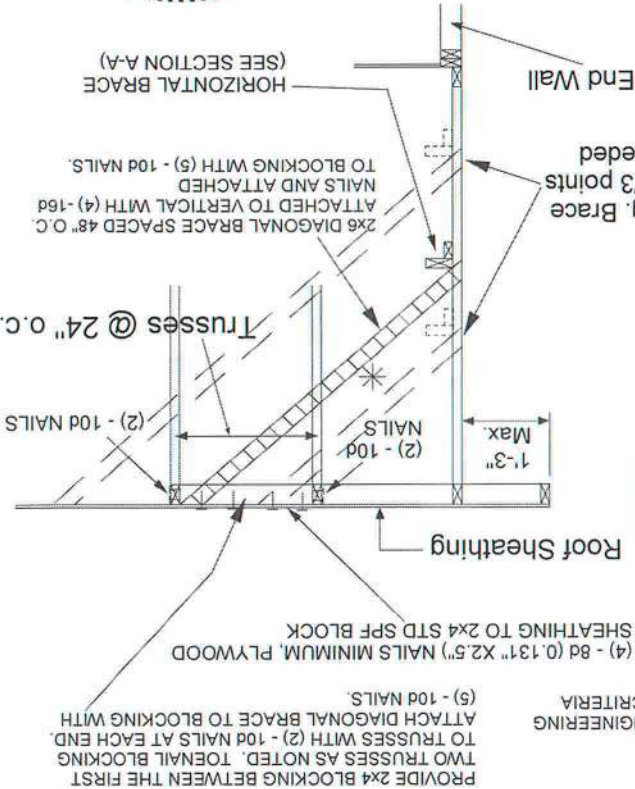
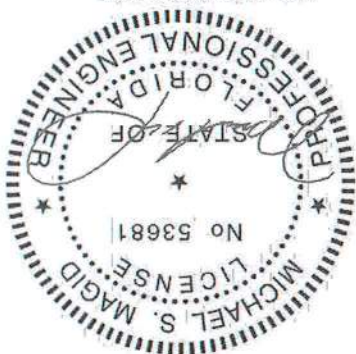
* Diagonal braces over 6'-3" require a 2x4 T-Brace attached to one edge. Diagonal braces over 12'-6" require 2x4 L-braces attached to both edges. Fasten T and L braces to narrow edge of diagonal brace with 10d nails 8" o.c., with 3" minimum end distance. Brace must cover 90% of diagonal length.

MAX MEAN ROOF HEIGHT = 30 FEET
CATEGORY II BUILDING
EXPOSURE B or C
ASCE 7-98, ASCE 7-02, ASCE 7-05 130 MPH
ASCE 7-10, ASCE 7-16 160 MPH
DURATION OF LOAD INCREASE: 1.60

STUD DESIGN IS BASED ON COMPONENTS AND CLADDING CONNECTION OF BRACING IS BASED ON MW-RS.
DESIGN VALID FOR USE ONLY WITH MITTEK CONNECTORS. THIS DESIGN IS BASED UPON PARAMETERS SHOWN, AND IS FOR AN INDIVIDUAL BUILDING COMPONENT, NOT A TRUSS SYSTEM. BEFORE USE, THE BUILDING DESIGNER MUST VERIFY THE APPLICABILITY OF DESIGN PARAMETERS AND PROPERLY INCORPORATE THIS DESIGN INTO THE OVERALL BUILDING DESIGN. BRACING INDICATED IS TO PREVENT BUCKLING OF INDIVIDUAL TRUSS WEB AND/OR CHORD MEMBERS ONLY. ADDITIONAL TEMPORARY AND PERMANENT BRACING IS REQUIRED FOR STABILITY AND TO PREVENT COLLAPSE OF TRUSSES AND TRUSS SYSTEMS. SEE ANSITRIP Quality Criteria, DSB-89 and BCS1 Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Michael S. Magid PE No. 53681
Mittek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date: 1



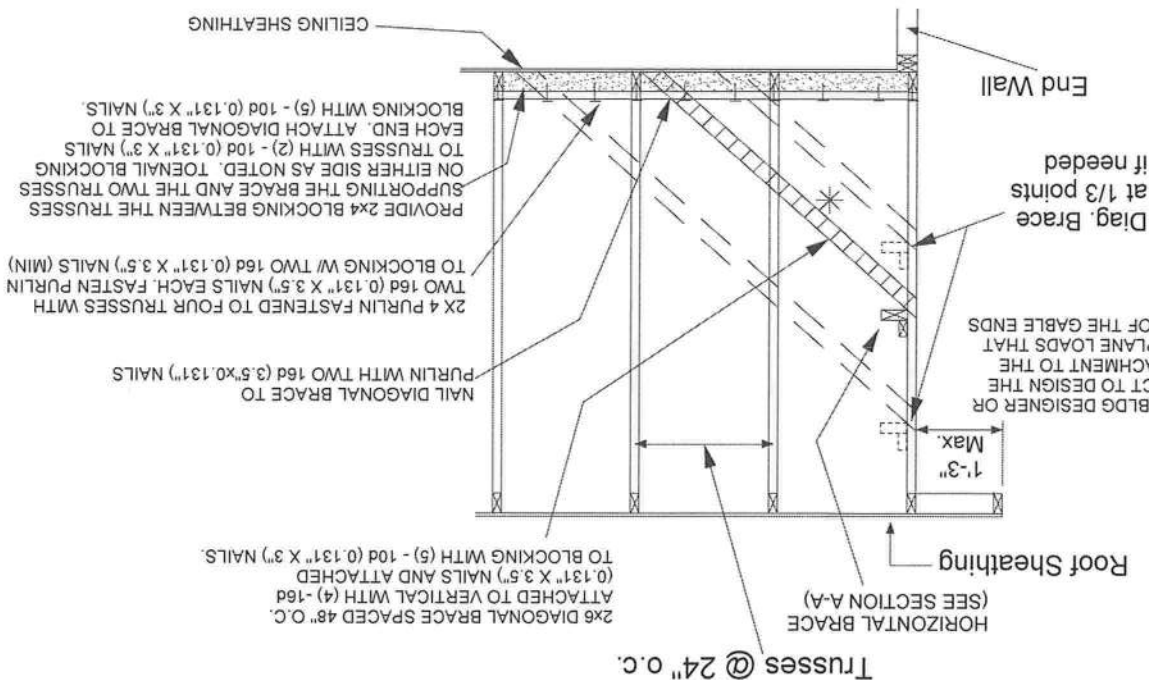
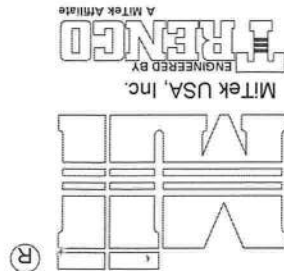
T23949110 Mittek USA, Inc. Page 1 of 2

APRIL 12, 2019

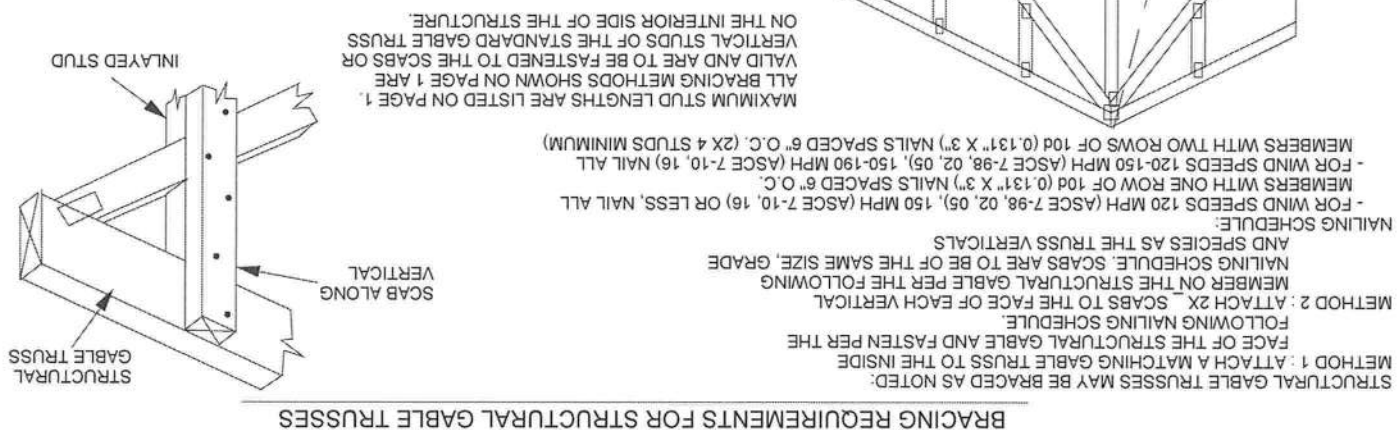
Standard Gable End Detail

MII-SHEET 2

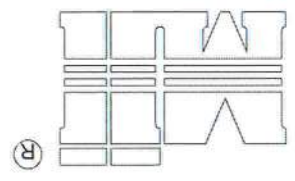
Mitek USA, Inc. Page 2 of 2



ALTERNATE DIAGONAL BRACING TO THE BOTTOM CHORD



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 REV. 5/19/2020 BEFORE USE. Design valid for use only with Mitek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members and properly incorporate this design into the overall fabrication, storage, delivery, erection and bracing of trusses and truss systems. See ANSITP11 Quality Criteria, DSB-89 and BCSI Building Component ANSITP11 Quality Criteria, DSB-89 and BCSI Building Component



MITek USA, Inc.

MITek USA, Inc.
6904 Parke East Blvd.
Tampa, FL 33610-4115
T23949111

May 17, 2021

TO WHOM IT MAY CONCERN:

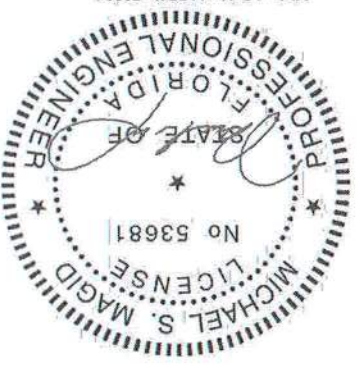
RE: MITek 20/20 drawings showing continuous lateral bracing or "T" bracing on interior webs and chords.

Truss design drawings designed using MITek 20/20 software show the bracing to be located on a side of the member needing to be braced. The actual side of the member where the brace is to be located does not change the design. If the brace cannot physically be placed on the side of the member as the drawings show, then place the brace on the member at the same location except attach it to the opposite edge.

If we can be of any further assistance in this matter, please feel free to contact our office.

Sincerely,

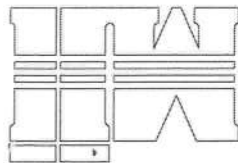
Michael Magid, PE



Michael S. Magid PE No. 53681
MITek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date: May 17, 2021

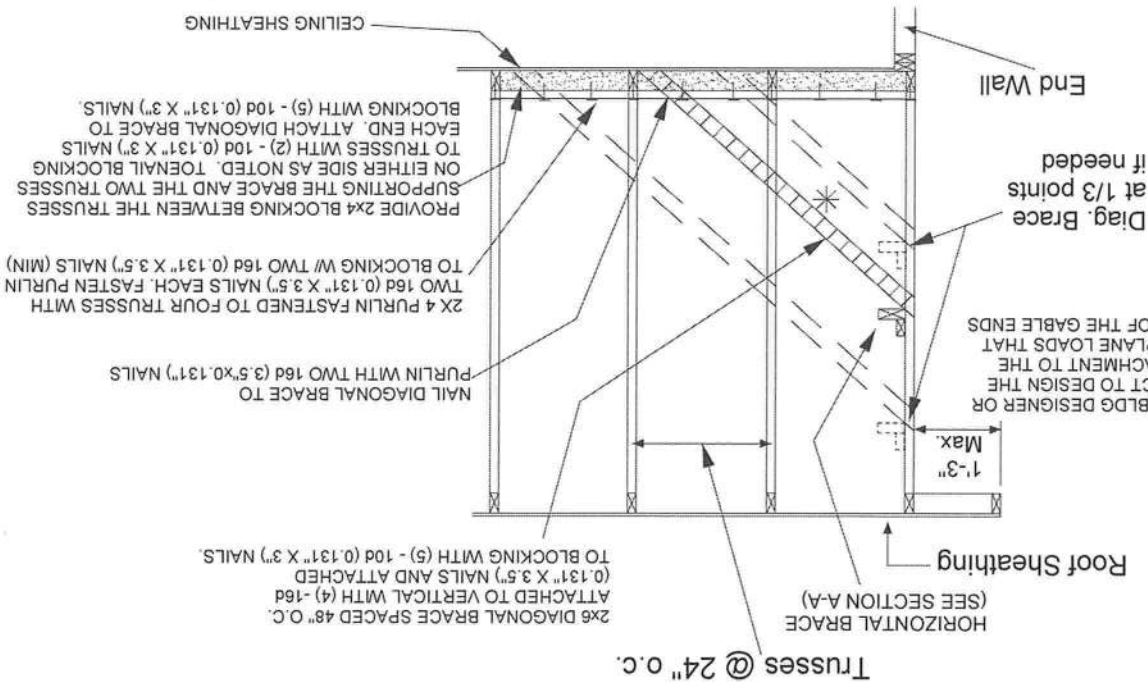


WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 REV. 5/19/2020 BEFORE USE. Design valid for use only with MITek connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI 1 Quality Criteria, DSB-88 and BCSI Building Component** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

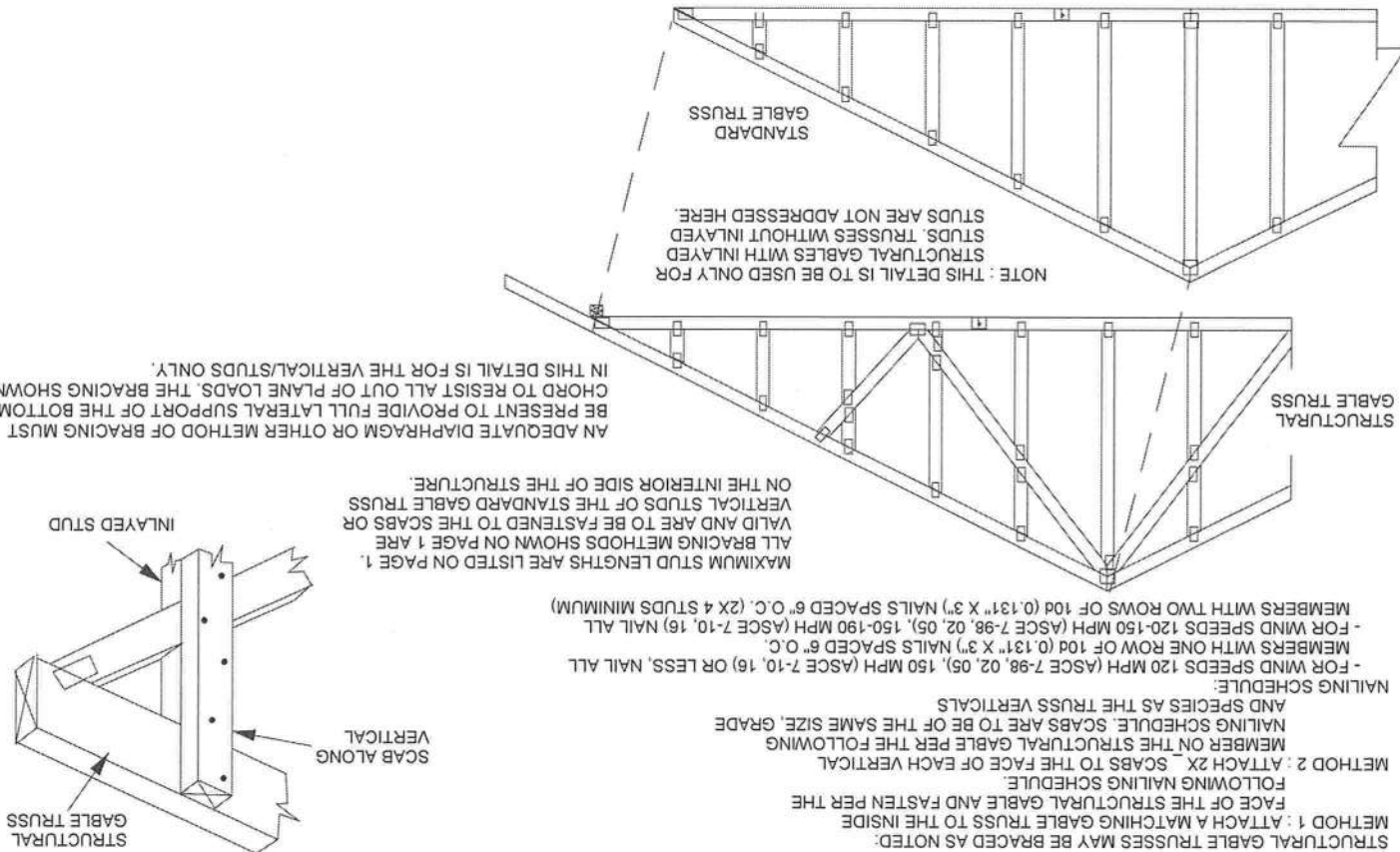


Mittek USA, Inc.
ENGINEERED BY
TRENGO
A Mittek Affiliate

ALTERNATE DIAGONAL BRACING TO THE BOTTOM CHORD



BRACING REQUIREMENTS FOR STRUCTURAL GABLE TRUSSES



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITTEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with Mittek connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see
ANSI/APA Quality Criteria, DSB-89 and BCSI Building Component
ANSI/APA Quality Criteria, DSB-89 and BCSI Building Component
available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

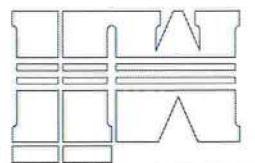
APRIL 12, 2019

Standard Gable End Detail

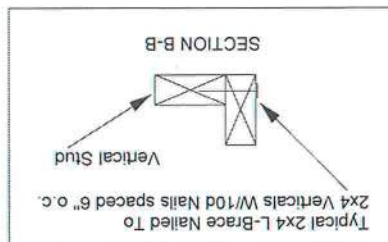
MII-GE170-D-SP

T23949112 MITTEK USA, Inc. Page 1 of 2

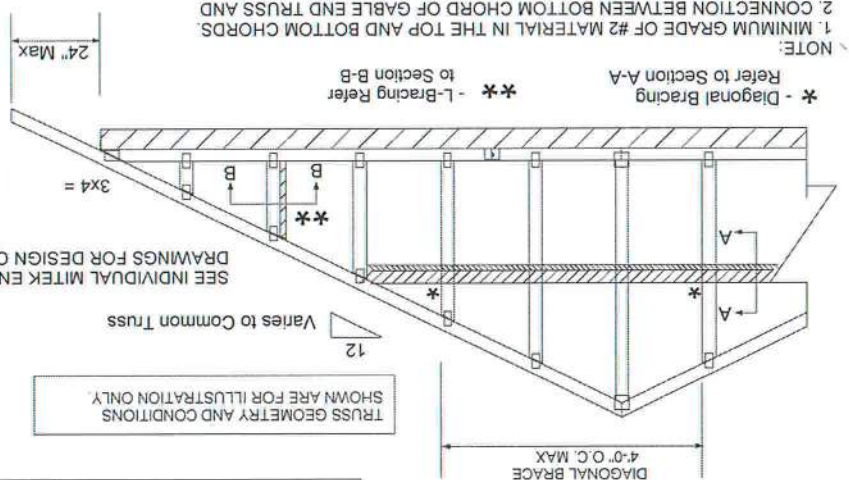
®



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TRUSS GEOMETRY AND CONDITIONS SHOWN ARE FOR ILLUSTRATION ONLY



- NOTE:
1. MINIMUM GRADE OF #2 MATERIAL IN THE TOP AND BOTTOM CHORDS
 2. CONNECTION BETWEEN BOTTOM CHORD OF GABLE END TRUSS AND WALL TO BE PROVIDED BY PROJECT ENGINEER OR ARCHITECT.
 3. BRACING SHOWN IS FOR INDIVIDUAL TRUSS ONLY. CONSULT BLDG. ARCHITECT OR ENGINEER FOR TEMPORARY AND PERMANENT BRACING OF ROOF SYSTEM.
 4. "L" BRACES SPECIFIED ARE TO BE FULL LENGTH, SPF OR SP No. 3 OR BETTER WITH ONE ROW OF 10d NAILS SPACED 6" O.C.
 5. DIAGONAL BRACE TO BE APPROXIMATELY 45 DEGREES TO ROOF DIAPHRAM AT 4'-0" O.C.
 6. CONSTRUCT HORIZONTAL BRACE CONNECTING A 2x6 AND A 2x4 AS SHOWN WITH 16d NAILS SPACED 6" O.C. HORIZONTAL BRACE TO BE LOCATED AT THE MIDSPAN OF THE LONGEST GABLE STUD.
 7. GABLE STUD DEFLECTION MEETS OR EXCEEDS L/240.
 8. THIS DETAIL DOES NOT APPLY TO STRUCTURAL GABLES.
 9. DO NOT USE FLAT BOTTOM CHORD GABLES NEXT TO SCISSOR TYPE TRUSSES.
 10. SOUTHERN PINE LUMBER DESIGN VALUES ARE THOSE EFFECTIVE 06-01-13 BY SP18/ALSC.
 11. NAILS DESIGNATED 16d ARE (0.131" X 3.5") AND NAILS DESIGNATED 10d ARE (0.131" X 3.5")

Minimum Stud Size and Grade	Stud Spacing	Maximum Stud Length			
		Without Brace	2x4 L-Brace	DIAGONAL BRACE	2 DIAGONAL BRACES AT 1/3 POINTS
2x4 SP No. 3 / Stud	12" O.C.	3-9-7	5-8-8	6-11-1	11-4-4
2x4 SP No. 3 / Stud	16" O.C.	3-4-12	4-11-15	6-9-8	10-2-3
2x4 SP No. 3 / Stud	24" O.C.	2-9-4	4-0-7	5-6-8	8-3-13
2x4 SP No. 2	12" O.C.	3-11-13	5-8-8	6-11-1	11-11-7
2x4 SP No. 2	16" O.C.	3-7-7	4-11-5	6-11-1	10-10-5
2x4 SP No. 2	24" O.C.	3-1-15	4-0-7	6-3-14	9-5-14

* Diagonal braces over 6'-3" require a 2x4 T-Brace attached to one edge. Diagonal braces over 12'-6" require 2x4 L-braces attached to both edges. Fasten T and L braces to narrow edge of diagonal brace with 10d nails 6" o.c. with 3" minimum end distance. Brace must cover 90% of diagonal length. T or L braces must be 2x4 SPF No. 2 or SP No. 2.

EXPOSURE D
MAX MEAN ROOF HEIGHT = 30 FEET
ASCE 7-10, ASCE 7-16 170 MPH
DURATION OF LOAD INCREASE: 1.60

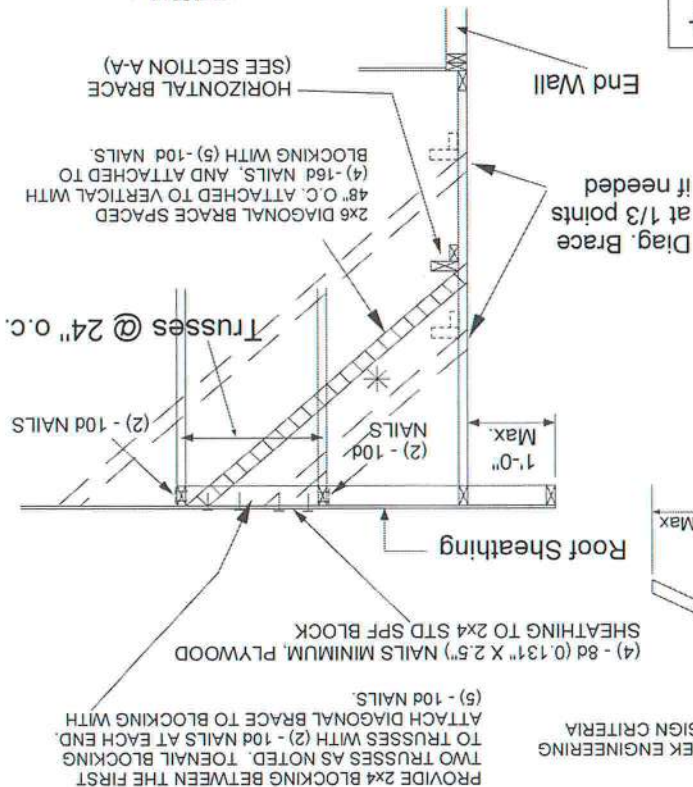
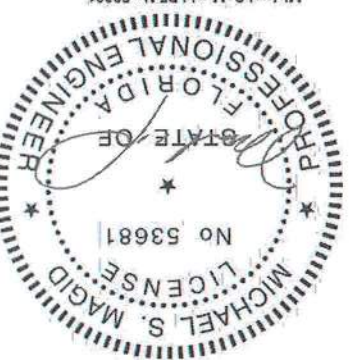
STUD DESIGN IS BASED ON COMPONENTS AND CLADDING CONNECTION OF BRACING IS BASED ON MWERS

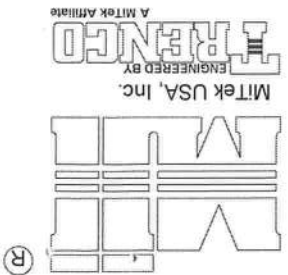
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITTEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with Mittek connectors. This design is based upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse of trusses and truss systems. See fabrication, storage, delivery, erection and bracing of trusses and truss systems. See *ANSI/TPI Quality Criteria, DSB-89 and BCS Building Component* available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



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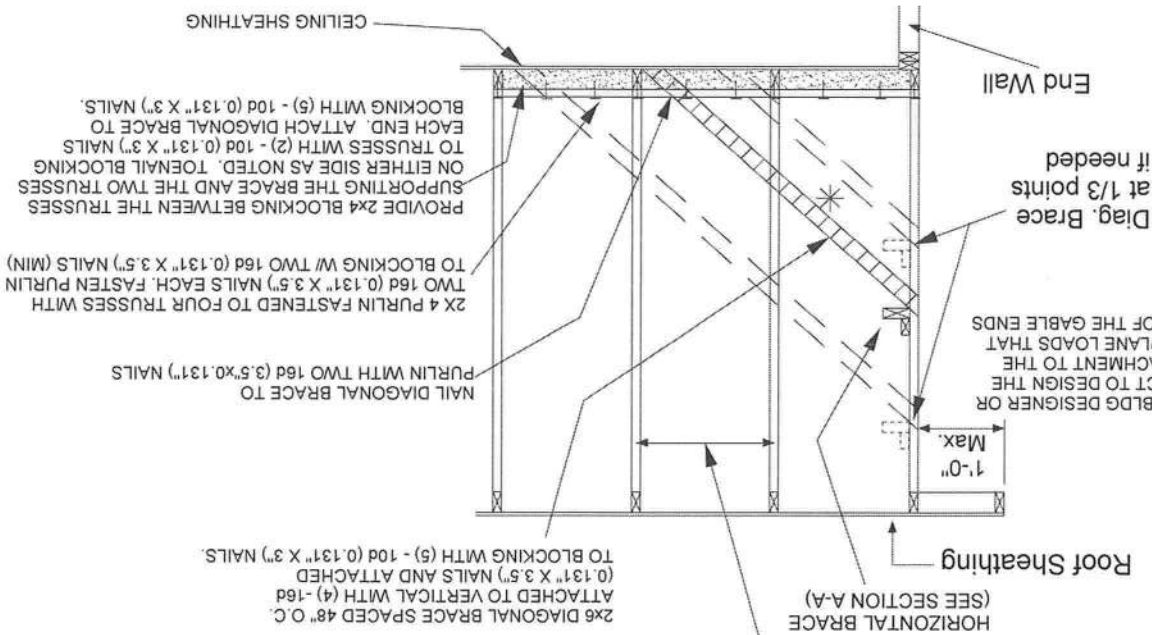
Michael S. Magid PE No. 53681
MITTEK USA, Inc. FL Cert 6634
6904 Parke East Blvd, Tampa FL 33610
Date: May 17, 2021



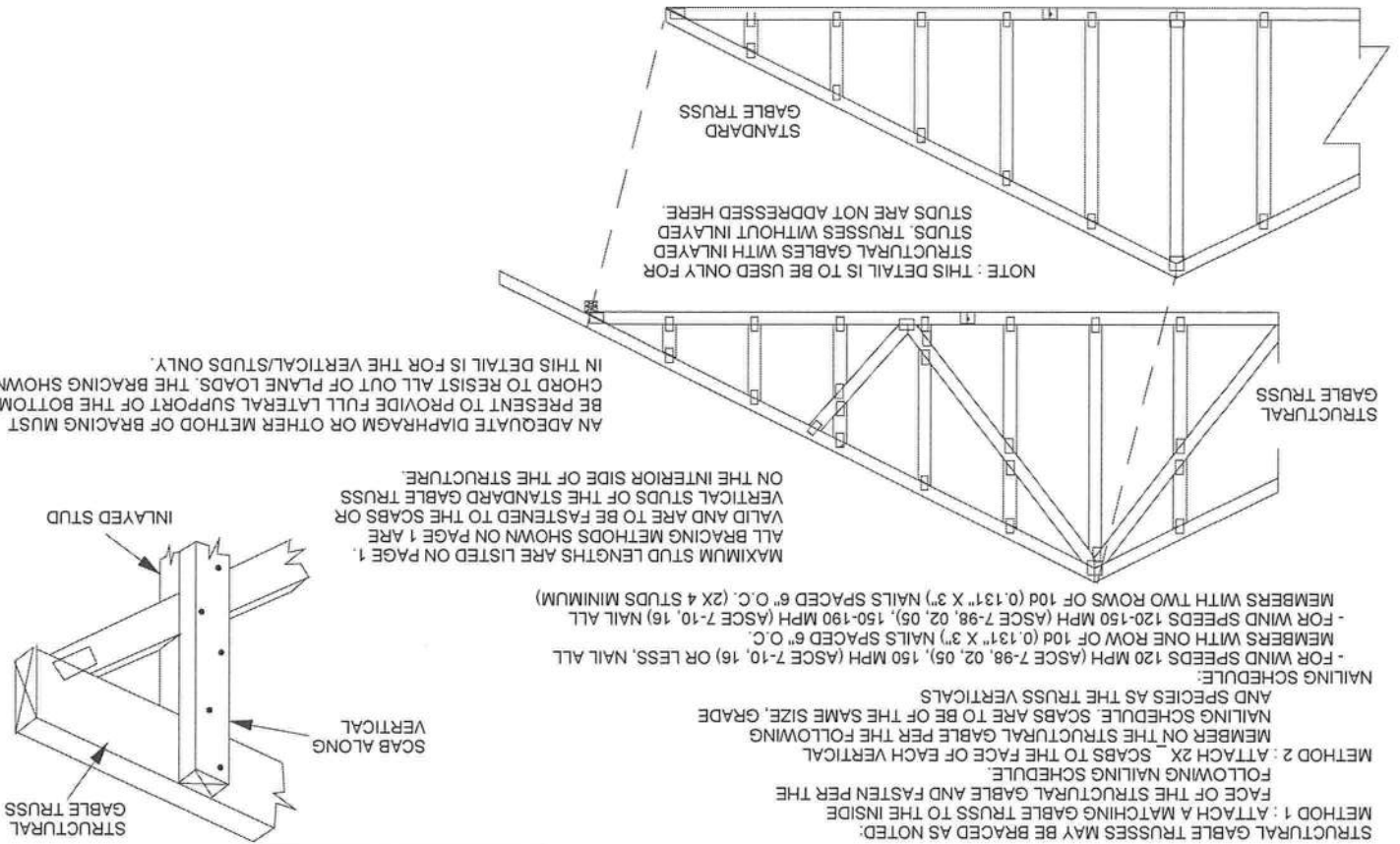


ALTERNATE DIAGONAL BRACING TO THE BOTTOM CHORD

Trusses @ 24" o.c.



BRACING REQUIREMENTS FOR STRUCTURAL GABLE TRUSSES

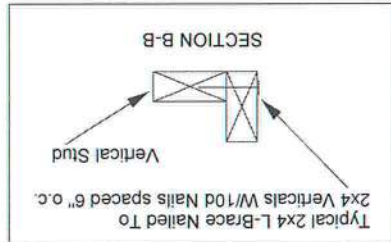
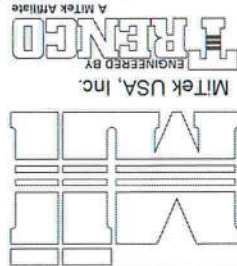


WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITTEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with Mitek connectors. This design is based only upon parameters shown, and for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members and properly incorporate this design into the overall building design. Bracing required for stability and to prevent collapse of trusses and truss systems, see ANSIP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

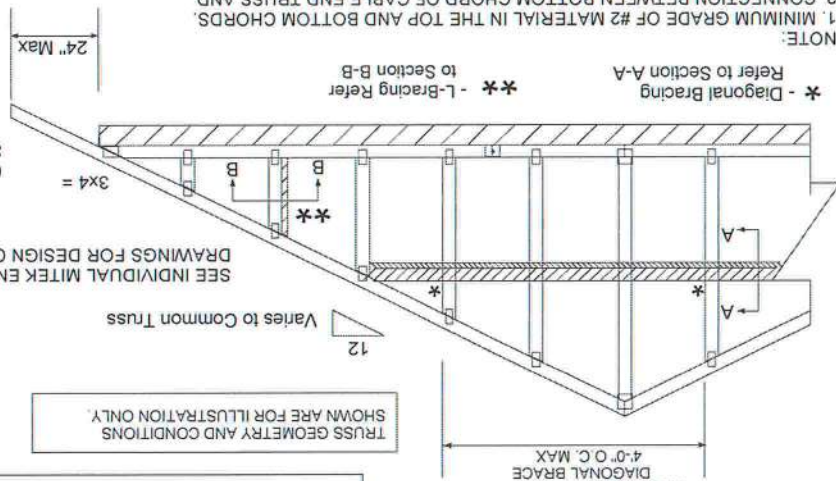
APRIL 12, 2019

Standard Gable End Detail

MII-GE180-D-SP



TRUSS GEOMETRY AND CONDITIONS SHOWN ARE FOR ILLUSTRATION ONLY



- NOTE:
1. MINIMUM GRADE OF #2 MATERIAL IN THE TOP AND BOTTOM CHORDS.
 2. CONNECTION BETWEEN BOTTOM CHORD OF GABLE END TRUSS AND WALL TO BE PROVIDED BY PROJECT ENGINEER OR ARCHITECT.
 3. BRACING SHOWN IS FOR INDIVIDUAL TRUSS ONLY. CONSULT BLDG. ARCHITECT OR ENGINEER FOR TEMPORARY AND PERMANENT BRACING OF ROOF SYSTEM.
 4. "L" BRACES SPECIFIED ARE TO BE FULL LENGTH, SPF OR SP NO.3 OR BETTER WITH ONE ROW OF 10d NAILS SPACED 6" O.C.
 5. DIAGONAL BRACE TO BE APPROXIMATELY 45 DEGREES TO ROOF DIAPHRAM AT 4'-0" O.C.
 6. CONSTRUCT HORIZONTAL BRACE CONNECTING A 2x6 AND A 2x4 AS SHOWN WITH 16d NAILS SPACED 6" O.C. HORIZONTAL BRACE TO BE LOCATED AT THE MIDSPAN OF THE LONGEST GABLE STUD. ATTACH TO VERTICAL GABLE STUDS WITH (4) 10d NAILS THROUGH 2x4. (REFER TO SECTION A-A)
 7. GABLE STUD DEFLECTION MEETS OR EXCEEDS L/240.
 8. THIS DETAIL DOES NOT APPLY TO STRUCTURAL GABLES. DO NOT USE FLAT BOTTOM CHORD GABLES NEXT TO SCISSOR TYPE TRUSSES.
 10. SOUTHERN PINE LUMBER DESIGN VALUES ARE THOSE EFFECTIVE 06-01-13 BY SPIB/ALSC.
 11. NAILS DESIGNATED 16d ARE (0.131" X 3.5") AND NAILS DESIGNATED 10d ARE (0.131" X 3.5")

Minimum Stud Size and Grade	Stud Spacing	Without Brace	L-Brace 2x4	DIAGONAL BRACE AT 1/3 POINTS
2x4 SP No. 3 / Stud	12" O.C.	3-7-12	5-4-11	6-2-1
2x4 SP No. 3 / Stud	16" O.C.	3-2-8	4-8-1	6-2-1
2x4 SP No. 3 / Stud	24" O.C.	2-7-7	3-9-12	7-10-4
2x4 SP No. 2	12" O.C.	3-10-0	5-4-11	6-2-1
2x4 SP No. 2	16" O.C.	3-5-13	4-8-1	6-2-1
2x4 SP No. 2	24" O.C.	3-9-12	5-4-11	6-2-1

* Diagonal braces over 6'-3" require a 2x4 T-Brace attached to one edge. Diagonal braces over 12'-6" require 2x4 L-braces attached to both edges. Fasten T and L braces to narrow edge of diagonal brace with 10d nails 6in o.c., with 3in minimum end distance. Brace must cover 90% of diagonal length. T or L braces must be 2x4 SPF No. 2 or SP No. 2.

MAX MEAN ROOF HEIGHT = 30 FEET

EXPOSURE D

ASCE 7-10, ASCE 7-16 180 MPH

DURATION OF LOAD INCREASE : 1.00

STUD DESIGN IS BASED ON COMPONENTS AND CLADDING.

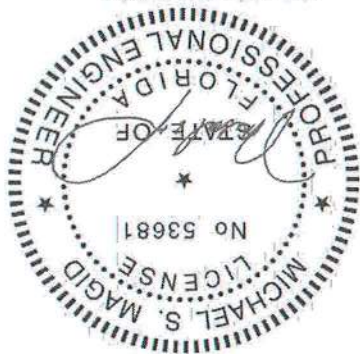
CONNECTION OF BRACING IS BASED ON MWFRS.

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITTEK REFERENCE PAGE MII-7473 REV. 5/19/2020 BEFORE USE

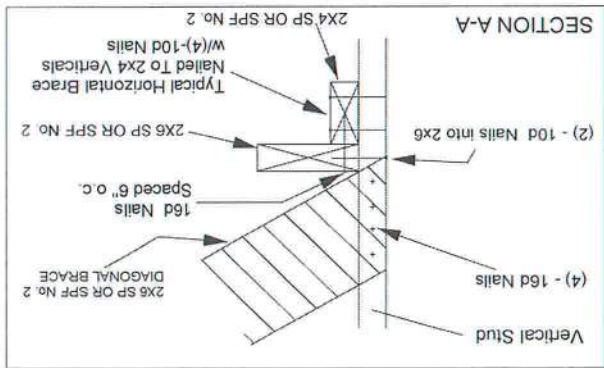
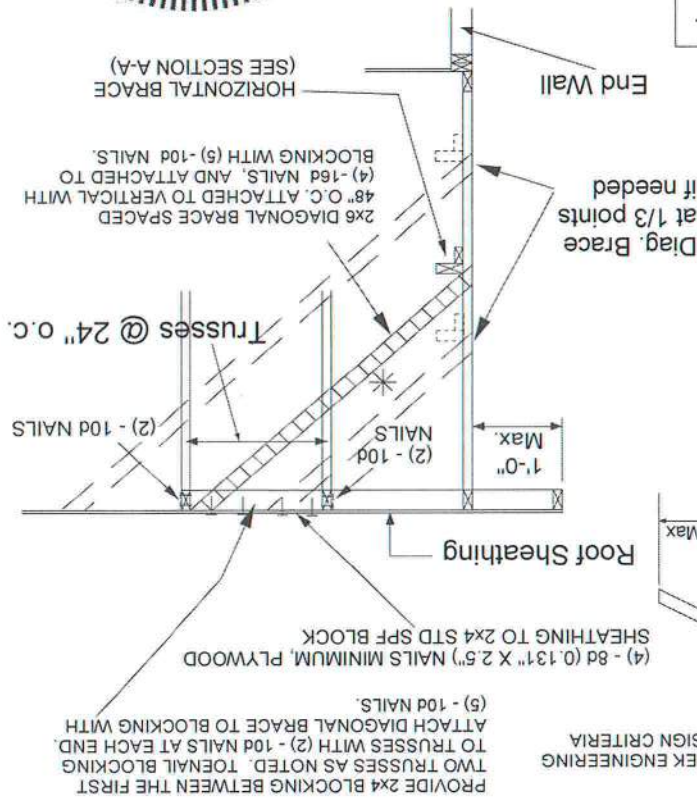
Design valid for use only with Mittek connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse of trusses and truss systems. See *ANSI/TPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information*, available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



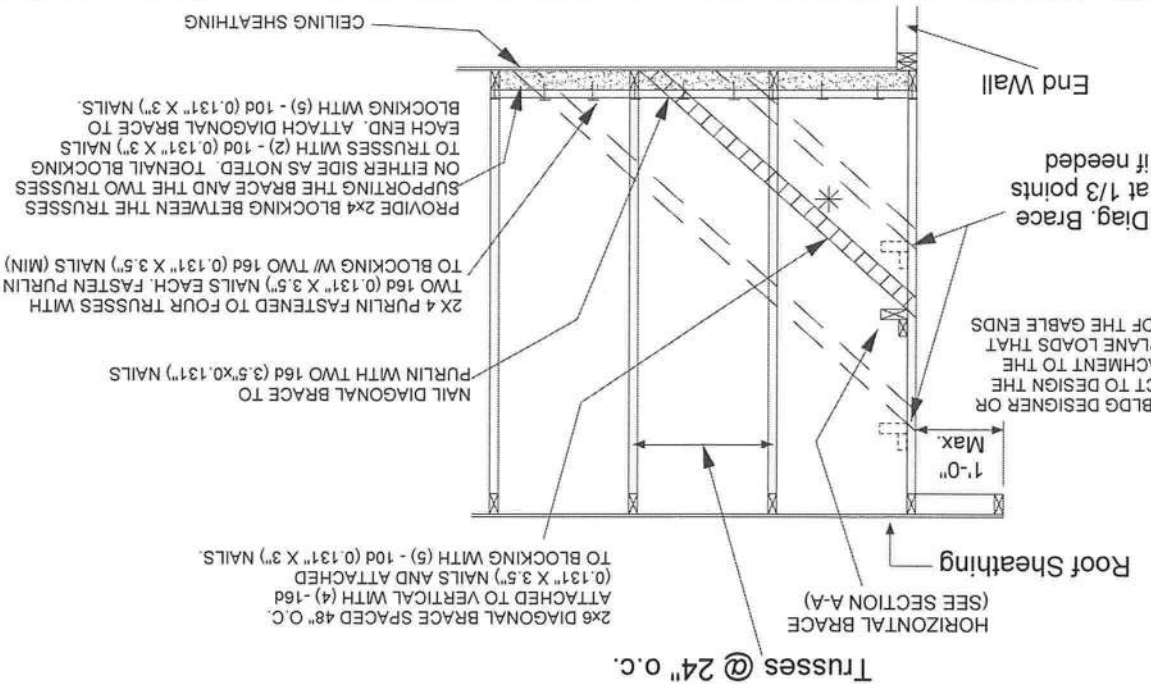
6904 Parke East Blvd.
Tampa, FL 33610



Michael S. Magid PE No. 53681
MITTEK USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date: May 17, 2021



ALTERNATE DIAGONAL BRACING TO THE BOTTOM CHORD



STRUCTURAL GABLE TRUSSES MAY BE BRACED AS NOTED:

METHOD 1: ATTACH A MATCHING GABLE TRUSS TO THE INSIDE FACE OF THE STRUCTURAL GABLE AND FASTEN PER THE FOLLOWING NAILING SCHEDULE.

METHOD 2: ATTACH 2x SCABS TO THE FACE OF EACH VERTICAL MEMBER ON THE STRUCTURAL GABLE PER THE FOLLOWING NAILING SCHEDULE. SCABS ARE TO BE OF THE SAME SIZE, GRADE AND SPECIES AS THE TRUSS VERTICALS.

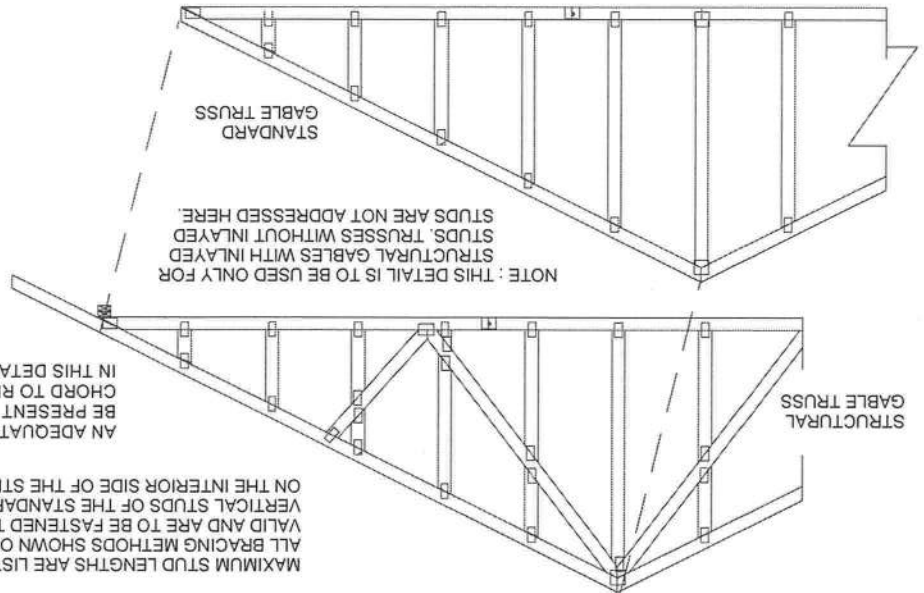
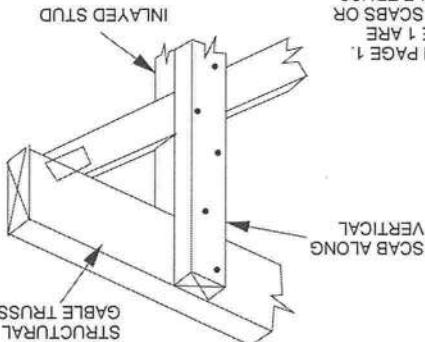
NAILING SCHEDULE:

- FOR WIND SPEEDS 120 MPH (ASCE 7-98, 02, 05), 150 MPH (ASCE 7-10, 16) OR LESS, NAIL ALL MEMBERS WITH ONE ROW OF 10d (0.131" X 3") NAILS SPACED 6" O.C.

- FOR WIND SPEEDS 120-150 MPH (ASCE 7-98, 02, 05), 150-190 MPH (ASCE 7-10, 16) NAIL ALL MEMBERS WITH TWO ROWS OF 10d (0.131" X 3") NAILS SPACED 6" O.C. (2X 4 STUDS MINIMUM)

MAXIMUM STUD LENGTHS ARE LISTED ON PAGE 1. ALL BRACING METHODS SHOWN ON PAGE 1 ARE VALID AND ARE TO BE FASTENED TO THE SCABS OR VERTICAL STUDS OF THE STANDARD GABLE TRUSS ON THE INTERIOR SIDE OF THE STRUCTURE.

AN ADEQUATE DIAPHRAGM OR OTHER METHOD OF BRACING MUST BE PRESENT TO PROVIDE FULL LATERAL SUPPORT OF THE BOTTOM CHORD TO RESIST ALL OUT OF PLANE LOADS. THE BRACING SHOWN IN THIS DETAIL IS FOR THE VERTICAL/STUDS ONLY.

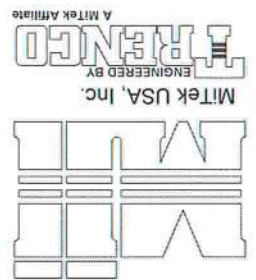


WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITTEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MITtek connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members and properly incorporate this design into the overall fabrication, storage, delivery, erection and bracing of trusses and truss systems. See ANSIT/PTI Quality Criteria, DSB-89 and BCSI Building Component

January 8, 2019

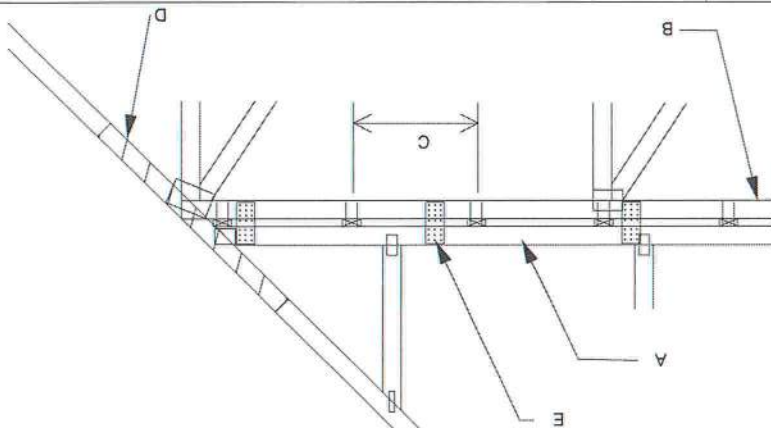
STANDARD PIGGYBACK
TRUSS CONNECTION DETAIL

MII-PIGGY-7-16



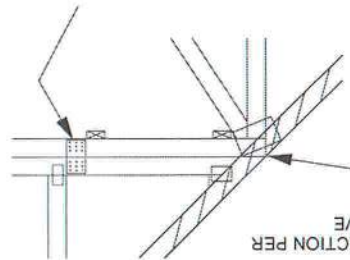
MAXIMUM WIND SPEED = REFER TO NOTES D AND OR E
MAX MEAN ROOF HEIGHT = 30 FEET
MAX TRUSS SPACING = 24' O.C.
CATEGORY II BUILDING
EXPOSURE B or C
ENCLOSED BUILDING
LOADING = 5 PSF TCCL
ASCE 7-10, ASCE 7-16
DURATION OF LOAD INCREASE: 1.60
DETAIL IS NOT APPLICABLE FOR TRUSSES
TRANSFERING DRAG LOADS (SHEAR TRUSSES).
ADDITIONAL CONSIDERATIONS BY BUILDING
ENGINEER/DESIGNER ARE REQUIRED.

A - PIGGYBACK TRUSS, REFER TO MITTEK TRUSS DESIGN DRAWING
SHALL BE CONNECTED TO EACH PURLIN
WITH (2) (0.131" X 3.5") TOE-NAILED
B - BASE TRUSS, REFER TO MITTEK TRUSS DESIGN DRAWING
UNLESS SPECIFIED CLOSER ON MITTEK TRUSS DESIGN DRAWING.
CONNECT TO BASE TRUSS WITH (2) (0.131" X 3.5") NAILS EACH.
D - 2" X 4'-0" SCAB, SIZE TO MATCH TOP CHORD OF
PIGGYBACK TRUSS. MIN GRADE #2 ATTACHED TO ONE FACE, CENTERED
ON INTERSECTION, WITH (2) ROWS OF (0.131" X 3") NAILS @ 4" O.C.
SCAB MAY BE OMITTED PROVIDED THE TOP CHORD SHEATHING
IS CONTINUOUS OVER INTERSECTION AT LEAST 1 FT. IN BOTH
DIRECTIONS AND:
1 WIND SPEED OF 115 MPH OR LESS FOR ANY PIGGYBACK SPAN, OR
2 WIND SPEED OF 116 MPH TO 180 MPH WITH A MAXIMUM
PIGGYBACK SPAN OF 12 ft.
E - FOR WIND SPEEDS BETWEEN 116 AND 180 MPH, ATTACH
MITTEK NP37 20 GA NAIL-ON PLATES TO EACH FACE OF TRUSSES AT
72" O.C. W/ (4) (0.131" X 1.5") NAILS PER MEMBER. STAGGER NAILS
FROM OPPOSING FACES. ENSURE 0.5" NAIL EDGE DISTANCE.
(MIN. 2 PAIRS OF PLATES REQ. REGARDLESS OF SPAN)

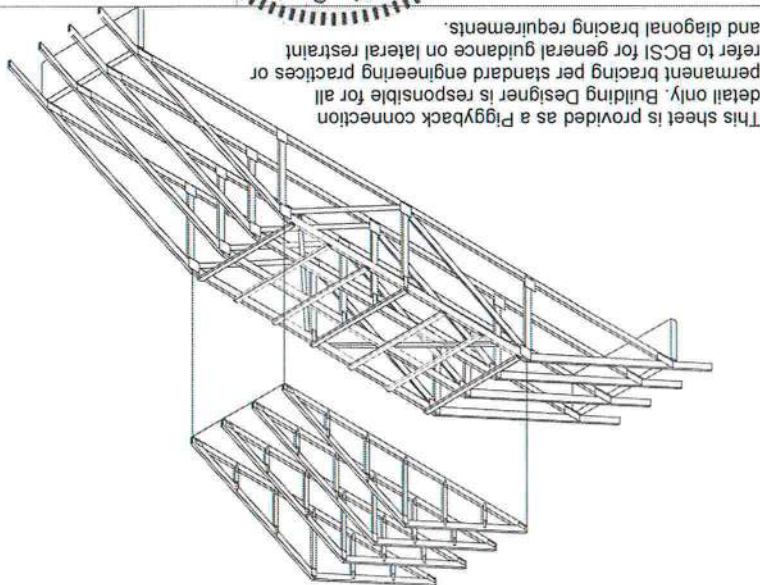


WHEN NO GAP BETWEEN PIGGYBACK AND BASE TRUSS EXISTS:

REPLACE TOE NAILING OF PIGGYBACK TRUSS TO PURLINS WITH NAIL-ON
PLATES AS SHOWN, AND INSTALL PURLINS TO BOTTOM EDGE OF BASE
TRUSS TOP CHORD AT SPECIFIED SPACING SHOWN ON BASE
TRUSS MITTEK DESIGN DRAWING.



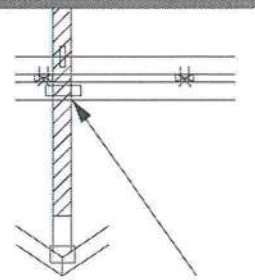
FOR ALL WIND SPEEDS, ATTACH MITTEK NP37 20 GA NAIL-ON PLATES TO
EACH FACE OF TRUSSES AT 48" O.C. W/ (4) (0.131" X 1.5") PER MEMBER.
STAGGER NAILS FROM OPPOSING FACES ENSURE 0.5" NAIL EDGE DISTANCE.



This sheet is provided as a Piggyback connection
detail only. Building Designer is responsible for all
permanent bracing per standard engineering practices or
refer to BCSI for general guidance on lateral restraint
and diagonal bracing requirements.

FOR LARGE CONCENTRATED LOADS APPLIED
TO CAP TRUSS REQUIRING A VERTICAL WEB:

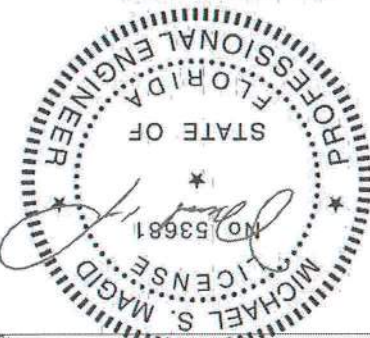
- 1) VERTICAL WEBS OF PIGGYBACK AND BASE TRUSS
MUST MATCH IN SIZE, GRADE, AND MUST LINE UP
AS SHOWN IN DETAIL.
- 2) ATTACH 2" X 4'-0" SCAB TO EACH FACE OF
TRUSS ASSEMBLY WITH 2 ROWS OF 10d (0.131" X 3") NAILS
SPACED 4" O.C. FROM EACH FACE. (SIZE AND GRADE TO MATCH
VERTICAL WEBS OF PIGGYBACK AND BASE TRUSS.)
- 3) THIS CONNECTION IS ONLY VALID FOR A MAXIMUM
(MINIMUM 2X4)
CONCENTRATED LOAD OF 4000 LBS (@ 1.15). REVIEW
BY A QUALIFIED ENGINEER IS REQUIRED FOR LOADS
GREATER THAN 4000 LBS.
- 4) FOR PIGGYBACK TRUSSES CARRYING GIRDER LOADS,
NUMBER OF PLYS OF PIGGYBACK TRUSS TO MATCH BASE TRUSS.
- 5) CONCENTRATED LOAD MUST BE APPLIED TO BOTH
THE PIGGYBACK AND THE BASE TRUSS DESIGN.



VERTICAL WEB TO
EXTEND THROUGH
BOTTOM CHORD
OF PIGGYBACK

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a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall
building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing
is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the
fabrication, storage, delivery, erection and bracing of trusses and truss systems, see
ANSI/TPI 1 Quality Criteria, DSB-88 and BCSI Building Component
Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

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May 17, 2021

JANUARY 8, 2019

STANDARD PIGGYBACK TRUSS CONNECTION DETAIL

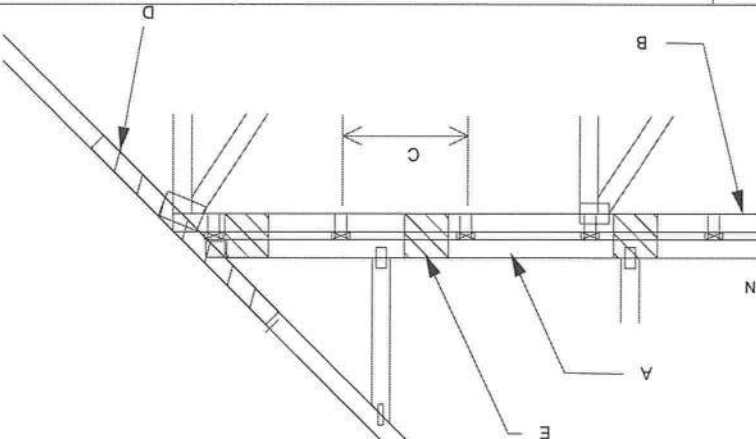
MII-PIGGY-ALT
7-16

T23949115 Mittek USA, Inc. Page 1 of 1

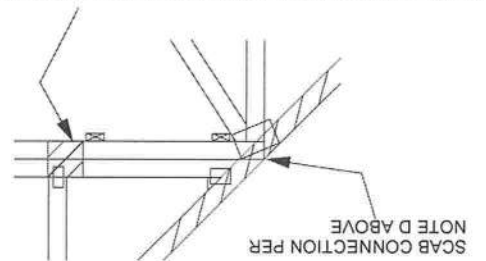
MAXIMUM WIND SPEED = REFER TO NOTES D AND OR E
MAX MEAN ROOF HEIGHT = 30 FEET
MAX TRUSS SPACING = 24" O.C.
CATEGORY II BUILDING
EXPOSURE B OR C
ENCLOSED BUILDING
LOADING = 5 PSF TCCL MINIMUM
ASCE 7-10, ASCE 7-16
DURATION OF LOAD INCREASE = 1.60
DETAIL IS NOT APPLICABLE FOR TRUSSES
TRANSFERRING DRAG LOADS (SHEAR TRUSSES).
ADDITIONAL CONSIDERATIONS BY BUILDING
ENGINEER/DESIGNER ARE REQUIRED.



A - PIGGYBACK TRUSS, REFER TO MITTEK TRUSS DESIGN DRAWING.
SHALL BE CONNECTED TO EACH PURLIN WITH (2) @ 13" X 3.5" TOE-NAILED.
B - BASE TRUSS, REFER TO MITTEK TRUSS DESIGN DRAWING.
UNLESS SPECIFIED CLOSER ON MITTEK TRUSS DESIGN DRAWING.
C - PURLINS AT EACH BASE TRUSS JOINT AND A MAXIMUM 24" O.C.
CONNECT TO BASE TRUSS WITH (2) @ 13" X 3.5" NAILS EACH.
D - 2 X 4" SCAB, SIZE TO MATCH TOP CHORD OF PIGGYBACK TRUSS, MIN GRADE #2, ATTACHED TO ONE FACE, CENTERED ON INTERSECTION WITH (2) ROWS OF (0.131" X 3") NAILS @ 4" O.C. SCAB MAY BE OMITTED PROVIDED THE TOP CHORD SHEATHING IS CONTINUOUS OVER INTERSECTION AT LEAST 1 FT. IN BOTH DIRECTIONS AND:
1. WIND SPEED OF 115 MPH OR LESS FOR ANY PIGGYBACK SPAN, OR
2. WIND SPEED OF 116 MPH TO 180 MPH WITH A MAXIMUM PIGGYBACK SPAN OF 12 ft.
E - FOR WIND SPEED IN THE RANGE 116 MPH - 180 MPH ADD 9" X 9" X 1/2" PLYWOOD (OR 7/16" OSB) GUSSET EACH SIDE AT 48" O.C. OR LESS. ATTACH WITH 3 - 6d (0.113" X 2") NAILS INTO EACH CHORD FROM EACH SIDE (TOTAL - 12 NAILS).

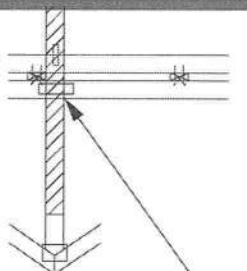


WHEN NO GAP BETWEEN PIGGYBACK AND BASE TRUSS EXISTS:
REPLACE TOE NAILING OF PIGGYBACK TRUSS TO PURLINS WITH PLYWOOD GUSSETS AS SHOWN, AND INSTALL PURLINS TO BOTTOM EDGE OF BASE TRUSS TOP CHORD AT SPECIFIED SPACING SHOWN ON BASE TRUSS MITTEK DESIGN DRAWING.



7" X 7" X 1/2" PLYWOOD (OR 7/16" OSB) GUSSET EACH SIDE AT 24" O.C. ATTACH WITH 3 - 6d (0.113" X 2") NAILS INTO EACH CHORD FROM EACH SIDE (TOTAL - 12 NAILS)

VERTICAL WEB TO
EXTEND THROUGH
BOTTOM CHORD
OF PIGGYBACK



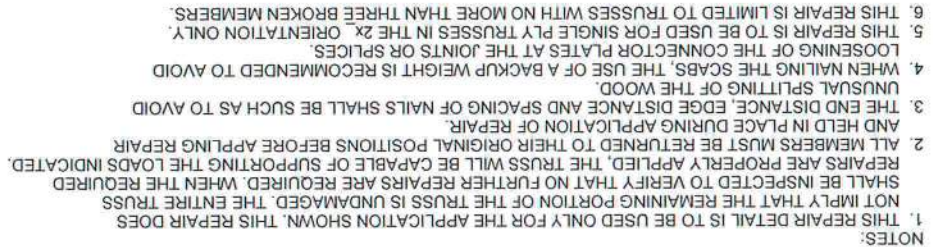
FOR LARGE CONCENTRATED LOADS APPLIED TO CAP TRUSS REQUIRING A VERTICAL WEB:
1) VERTICAL WEBS OF PIGGYBACK AND BASE TRUSS MUST MATCH IN SIZE, GRADE, AND MUST LINE UP AS SHOWN IN DETAIL.
2) ATTACH 2 X 4" SCAB TO EACH FACE OF TRUSS ASSEMBLY WITH 2 ROWS OF 10d (0.131" X 3") NAILS SPACED 4" O.C. FROM EACH FACE. (SIZE AND GRADE TO MATCH (MINIMUM 2X4)
3) THIS CONNECTION IS ONLY VALID FOR A MAXIMUM CONCENTRATED LOAD OF 4000 LBS (@ 1.15). REVIEW BY A QUALIFIED ENGINEER IS REQUIRED FOR LOADS GREATER THAN 4000 LBS.
4) FOR PIGGYBACK TRUSSES CARRYING GIRDER LOADS, NUMBER OF PLYS OF PIGGYBACK TRUSS TO MATCH BASE TRUSS.
5) CONCENTRATED LOAD MUST BE APPLIED TO BOTH THE PIGGYBACK AND THE BASE TRUSS DESIGN.

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May 17, 2021



* DIVIDE EQUALLY FRONT AND BACK

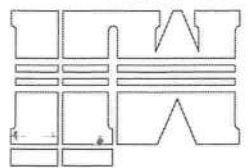
TOTAL NUMBER OF NAILS EACH SIDE OF BREAK *		2x6	INCHES X	SP		DF		SPF		HF		MAXIMUM FORCE (lbs) 15% LOAD DURATION
				2x4	2x6	2x4	2x6	2x6	2x4	2x4	2x6	
20	30	24"	1706	2559	1561	2342	1320	1980	1352	2028		
26	39	30"	2194	3291	2007	3011	1697	2546	1738	2608		
32	48	36"	2681	4022	2454	3681	2074	3111	2125	3187		
38	57	42"	3169	4754	2900	4350	2451	3677	2511	3767		
44	66	48"	3657	5485	3346	5019	2829	4243	2898	4347		

MAY 7, 2019

LATERAL TOE-NAIL DETAIL

MII-TOENAIL_SP

®



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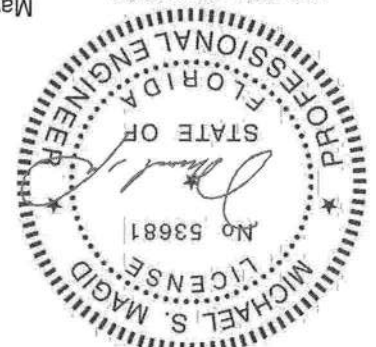
ENGINEERED BY

TRENCO
A Mittek Affiliate

TOE-NAIL SINGLE SHEAR VALUES PER NDS 2018 (lb/nail)						
DIAM.	SP	DF	HF	SPF	SPF-S	
3.5" LONG	.131	88.0	80.6	69.9	68.4	59.7
	.135	93.5	85.6	74.2	72.6	63.4
	.162	108.8	99.6	86.4	84.5	73.8
	.128	74.2	67.9	58.9	57.6	50.3
3.25" LONG	.131	75.9	69.5	60.3	59.0	51.1
	.148	81.4	74.5	64.6	63.2	52.5

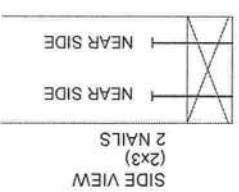
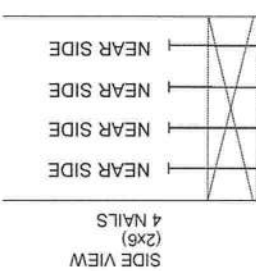
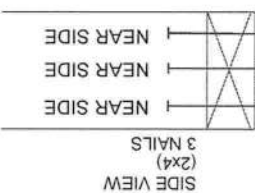
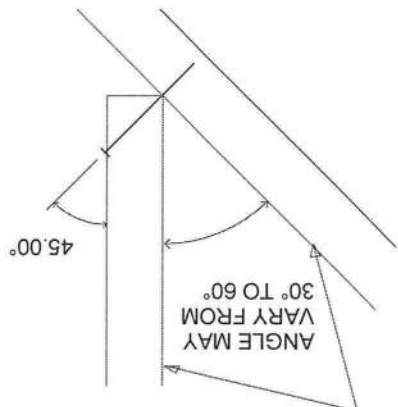
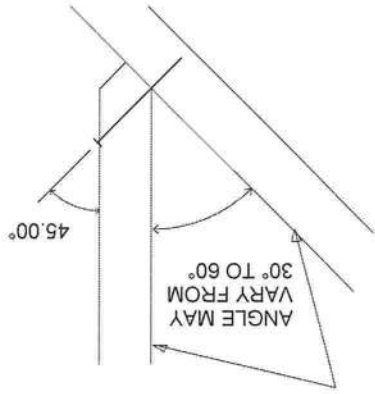
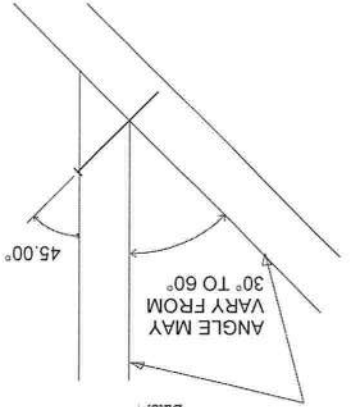
VALUES SHOWN ARE CAPACITY PER TOE-NAIL.
APPLICABLE DURATION OF LOAD INCREASES MAY BE APPLIED.

EXAMPLE:
(3) - 16d (0.162" X 3.5") NAILS WITH SPF SPECIES BOTTOM CHORD
For load duration increase of 1.15:
3 (nails) X 84.5 (lb/nail) X 1.15 (DOL) = 291.5 lb Maximum Capacity



May 17, 2021

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Date:



VIEWS SHOWN ARE FOR
ILLUSTRATION PURPOSES ONLY

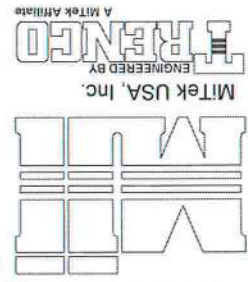
THIS DETAIL APPLICABLE TO THE
THREE END DETAILS SHOWN BELOW

- NOTES:
1. TOE-NAILS SHALL BE DRIVEN AT AN ANGLE OF 45 DEGREES WITH THE MEMBER AND MUST HAVE FULL WOOD SUPPORT. (NAIL MUST BE DRIVEN THROUGH AND EXIT AT THE BACK CORNER OF THE MEMBER END AS SHOWN.)
 2. THE END DISTANCE, EDGE DISTANCE, AND SPACING OF NAILS SHALL BE SUCH AS TO AVOID UNUSUAL SPLITTING OF THE WOOD.
 3. ALLOWABLE VALUE SHALL BE THE LESSER VALUE OF THE TWO SPECIES FOR MEMBERS OF DIFFERENT SPECIES.

APRIL 12, 2019

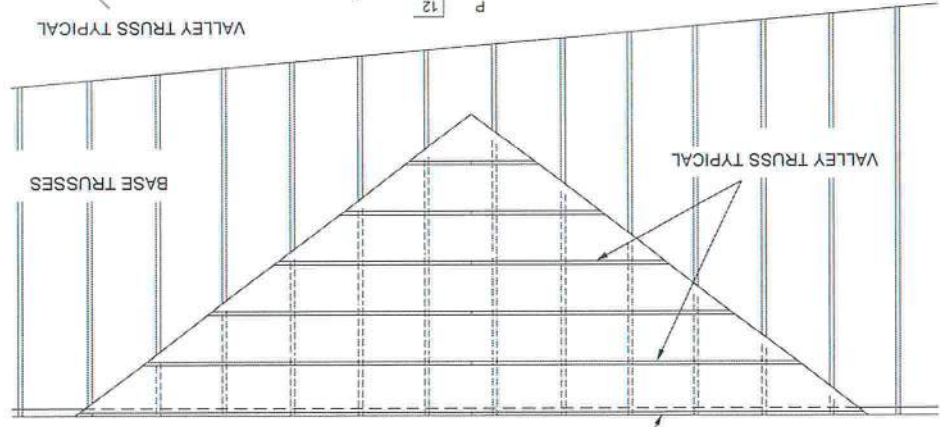
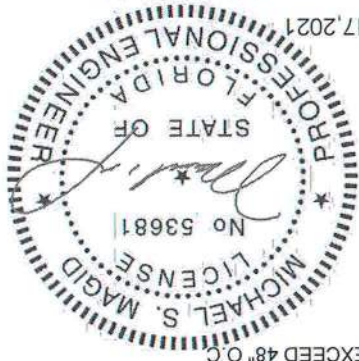
TRUSSED VALLEY SET DETAIL

MII-VALLEY HIGH WIND1

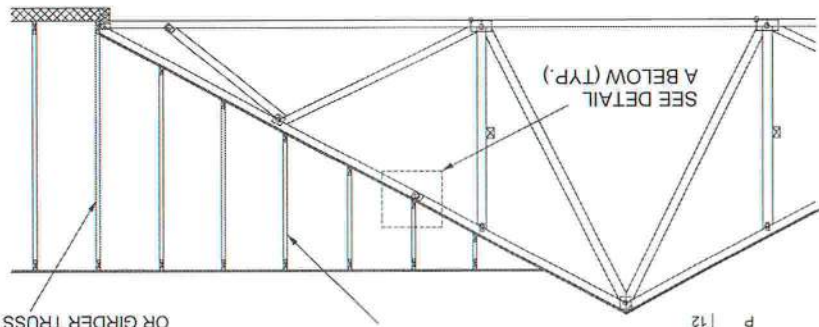


GENERAL SPECIFICATIONS

1. NAIL SIZE 10d (0.131" X 3")
2. WOOD SCREW = 3" WS3 USP OR EQUIVALENT
3. INSTALL VALLEY TRUSSES (24" O.C. MAXIMUM) AND SECURE PER DETAIL A
4. BRACE VALLEY WEBS IN ACCORDANCE WITH THE INDIVIDUAL DESIGN DRAWINGS.
5. BASE TRUSS SHALL BE DESIGNED WITH A PURLIN SPACING EQUIVALENT TO THE RAKE DIMENSION OF THE VALLEY TRUSS SPACING.
6. NAILING DONE PER NDS - 01
7. VALLEY STUD SPACING NOT TO EXCEED 48" O.C.



OR GIRDER TRUSS
GABLE END, COMMON TRUSS

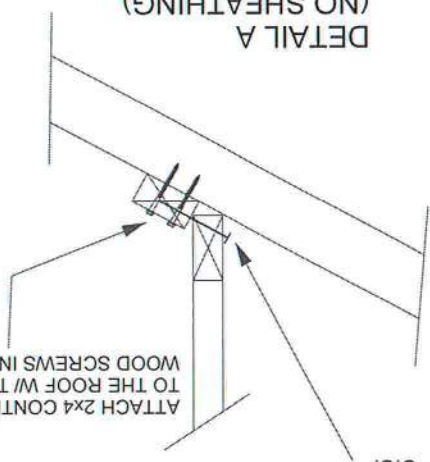


WIND DESIGN PER ASCE 7-98, ASCE 7-02, ASCE 7-05 146 MPH
WIND DESIGN PER ASCE 7-10, ASCE 7-16 160 MPH
MAX MEAN ROOF HEIGHT = 30 FEET
ROOF PITCH = MINIMUM 3/12 MAXIMUM 6/12
CATEGORY II BUILDING
EXPOSURE C
WIND DURATION OF LOAD INCREASE = 1.60
MAX TOP CHORD TOTAL LOAD = 50 PSF
MAX SPACING = 24" O.C. (BASE AND VALLEY)
MINIMUM REDUCED DEAD LOAD OF 6 PSF
ON THE TRUSSES

ATTACH 2x4 CONTINUOUS NO. 2 SP
TO THE ROOF W/ TWO USP WS3 (1/4" X 3")
WOOD SCREWS INTO EACH BASE TRUSS.

SECURE VALLEY TRUSS
W/ ONE ROW OF 10d
NAILS 6" O.C.

DETAIL A
(NO SHEATHING)
N.T.S.



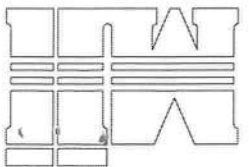
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITTEK REFERENCE PAGE MII-7473 REV. 5/19/2020 BEFORE USE.
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APRIL 12, 2019

TRUSSED VALLEY SET DETAIL

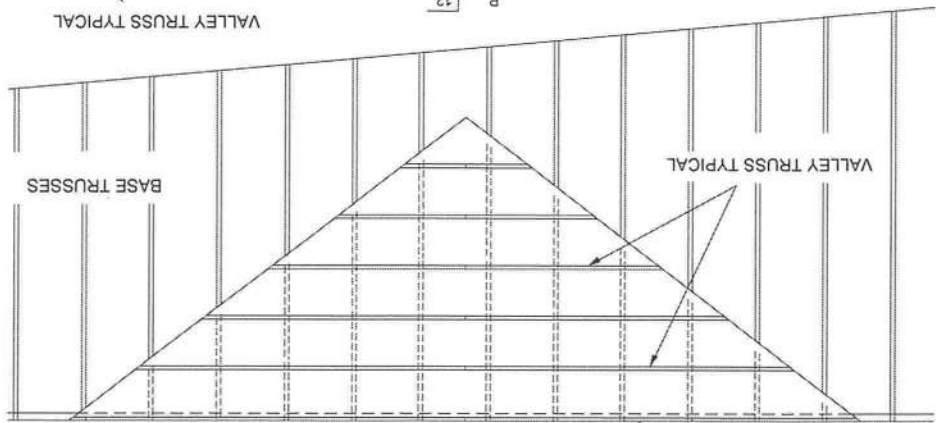
MII-VALLEY HIGH WIND2

(R)



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ENGINEERED BY
TRENCO
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GABLE END, COMMON TRUSS
OR GIRDER TRUSS



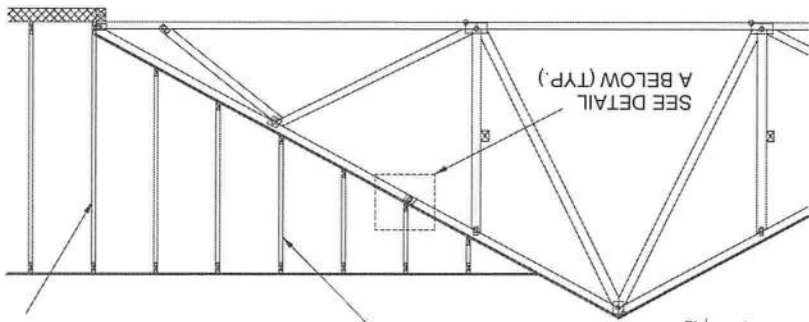
BASE TRUSSES

VALLEY TRUSS TYPICAL

VALLEY TRUSS TYPICAL

GABLE END, COMMON TRUSS
OR GIRDER TRUSS

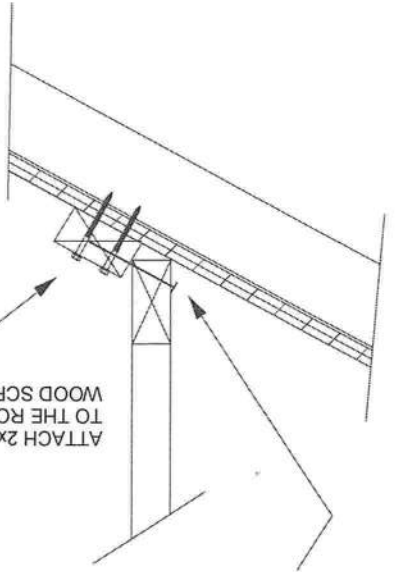
SEE DETAIL
A BELOW (TYP.)



SECURE VALLEY TRUSS
W/ ONE ROW OF 10d
NAILS 6" O.C.

ATTACH 2x4 CONTINUOUS NO. 2 SP
TO THE ROOF W/ TWO USP WS45 (1/4" X 4.5")
WOOD SCREWS INTO EACH BASE TRUSS.

1.5" Max

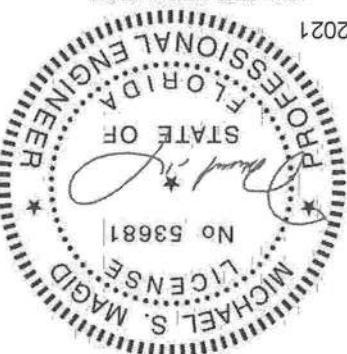


GENERAL SPECIFICATIONS

1. NAIL SIZE 10d (0.131" X 3")
2. WOOD SCREW = 4.5" WS45 USP OR EQUIVALENT
3. INSTALL SHEATHING TO TOP CHORD OF BASE TRUSSES.
4. INSTALL VALLEY TRUSSES (24" O.C. MAXIMUM) AND SECURE TO BASE TRUSSES AS PER DETAIL A
5. BRACE VALLEY WEBS IN ACCORDANCE WITH THE INDIVIDUAL DESIGN DRAWINGS.
6. NAILING DONE PER NDS-01
7. VALLEY STUD SPACING NOT TO EXCEED 48" O.C.

MITek USA, Inc.

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123949119



May 17, 2021

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WIND DESIGN PER ASCE 7-98, ASCE 7-02, ASCE 7-05 146 MPH
WIND DESIGN PER ASCE 7-10, ASCE 7-16 160 MPH
MAX MEAN ROOF HEIGHT = 30 FEET
ROOF PITCH = MINIMUM 3/12 MAXIMUM 6/12
CATEGORY II BUILDING
EXPOSURE C
WIND DURATION OF LOAD INCREASE = 1.60
MAX TOP CHORD TOTAL LOAD = 50 PSF
MAX SPACING = 24" O.C. (BASE AND VALLEY)
MINIMUM REDUCED DEAD LOAD OF 6 PSF
ON THE TRUSSES



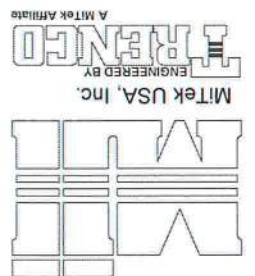
6904 Parke East Blvd,
Tampa, FL 33610

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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ANSI/TPI Quality Criteria, DSB-89 and BCSI Building Component
available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

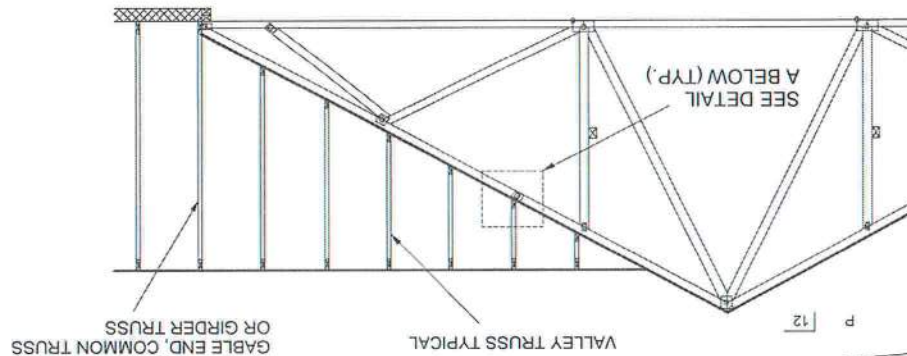
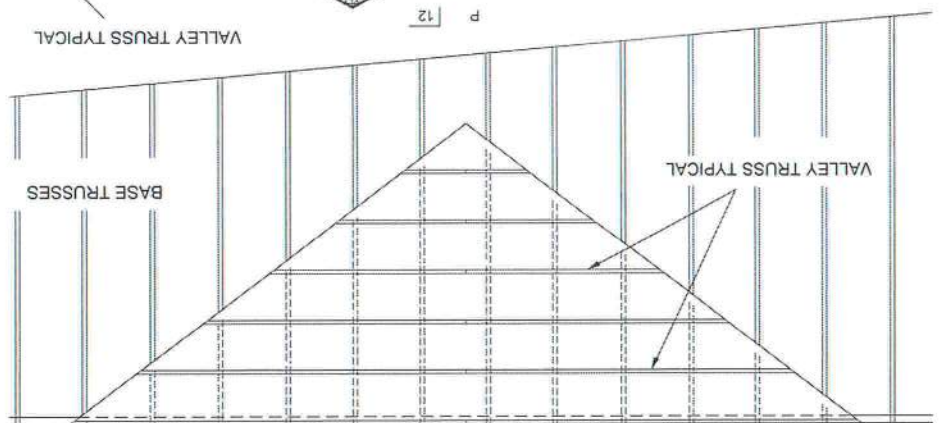
APRIL 12, 2019

TRUSSED VALLEY SET DETAIL

MII-VALLEY SP



GABLE END, COMMON TRUSS
OR GIRDER TRUSS



SECURE VALLEY TRUSS
W/ ONE ROW OF 16d
NAILS 6" O.C.

ATTACH 2x4 CONTINUOUS NO. 2 SP
TO THE ROOF W/ TWO 16d NAILS
INTO EACH BASE TRUSS.

DETAIL A
(MAXIMUM 1" SHEATHING)
N.T.S.

GENERAL SPECIFICATIONS

1. NAIL SIZE 16d (0.131" X 3.5")
2. INSTALL VALLEY TRUSSES (24" O.C. MAXIMUM) AND SECURE PER DETAIL A
3. BRACE VALLEY WEBS IN ACCORDANCE WITH THE INDIVIDUAL DESIGN DRAWINGS.
4. BASE TRUSS SHALL BE DESIGNED WITH A PURLIN SPACING EQUIVALENT TO THE RAKE DIMENSION OF THE VALLEY TRUSS SPACING.
5. NAILING DONE PER NDS - 01
6. VALLEY STUD SPACING NOT TO EXCEED 48" O.C.
7. ALL LUMBER SPECIES TO BE SP.

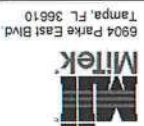
Mittek USA, Inc.

Page 1 of 1
123949120



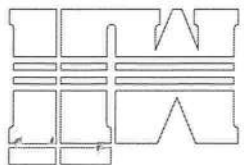
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Mittek USA, Inc. FL Cert 6634
6904 Parke East Blvd, Tampa FL 33610
Date:

WIND DESIGN PER ASCE 7-98, ASCE 7-02, ASCE 7-05 120 MPH
WIND DESIGN PER ASCE 7-10, ASCE 7-16 150 MPH
MAX MEAN ROOF HEIGHT = 30 FEET
ROOF PITCH = MINIMUM 3/12 MAXIMUM 10/12
CATEGORY II BUILDING
EXPOSURE C OR B
WIND DURATION OF LOAD INCREASE : 1.60
MAX TOP CHORD TOTAL LOAD = 60 PSF
MAX SPACING = 24" O.C. (BASE AND VALLEY)
MINIMUM REDUCED DEAD LOAD OF 4.2 PSF
ON THE TRUSSES



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITTEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE
Design valid for use only with Mittek connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members and properly incorporate this design into the overall fabrication, storage, delivery, erection and bracing of trusses and truss systems. See
ANSI/TPI Quality Criteria, DSB-69 and BCS Building Component
Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

Page 1 of 1 Mittek USA, Inc.



MITTEK USA, Inc.
ENGINEERED BY
TRINCO
A Mittek Affiliate

May 17, 2021

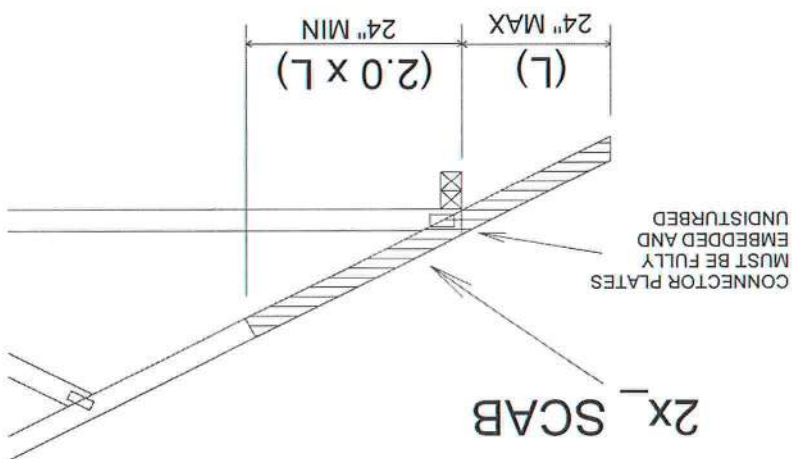
Design valid for use only with MITK® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSITR11 Quality Criteria, PSB-89 and BC31 Building Component Safety Information available from Truss Plate Institute, 2570 Crain Highway, Suite 203 Waldorf, MD 20601

6904 Parke East Blvd
Tampa, FL 36610



REFER TO INDIVIDUAL TRUSS DESIGN
FOR PLATE SIZES AND LUMBER GRADES

IMPORTANT
This detail to be used only with trusses (spans less than 40') spaced 24" o.c. maximum and having pitches between 4/12 and 12/12 and total top chord loads not exceeding 50 psf.
Trusses not fitting these criteria should be examined individually.



1. ATTACH 2x SCAB (MINIMUM NO. 2 GRADE SPF, HF, SP, DF) TO ONE FACE OF TRUSS WITH TWO ROWS OF 10d (0.131" X 3") SPACED 6" O.C.
2. THE END DISTANCE, EDGE DISTANCE, AND SPACING OF NAILS SHALL BE SUCH AS TO AVOID UNUSUAL SPLITTING OF THE WOOD.
3. WHEN NAILING THE SCABS, THE USE OF A BACKUP WEIGHT IS RECOMMENDED TO AVOID LOOSENING OF THE CONNECTOR PLATES AT THE JOINTS OR SPLICES.

NOTES:

TRUSS CRITERIA:
LOADING: 40-10-0-10
DURATION FACTOR: 1.15
SPACING: 24" O.C.
TOP CHORD: 2x4 OR 2x6
PITCH: 4/12 - 12/12
HEEL HEIGHT: STANDARD HEEL UP TO 12" ENERGY HEEL
END BEARING CONDITION

T23949122

Mitek USA, Inc.

MII-REP13B

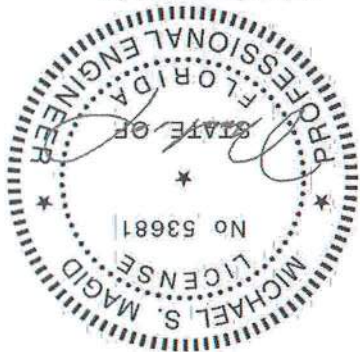
REPLACE BROKEN OVERHANG

OCTOBER 5, 2016

May 17, 2021

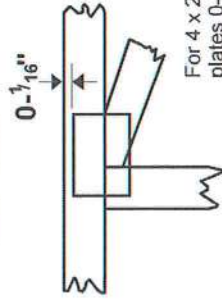
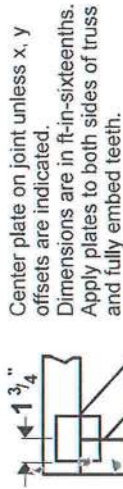
Date: _____

Michael S. Magid PE No. 53681
Mitek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610



Symbols

PLATE LOCATION AND ORIENTATION



— This symbol indicates the required direction of slots in connector plates.

* Plate location details available in MiTek 20/20 software or upon request.

PLATE SIZE

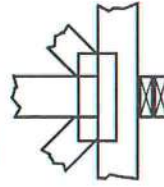
4 X 4

The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



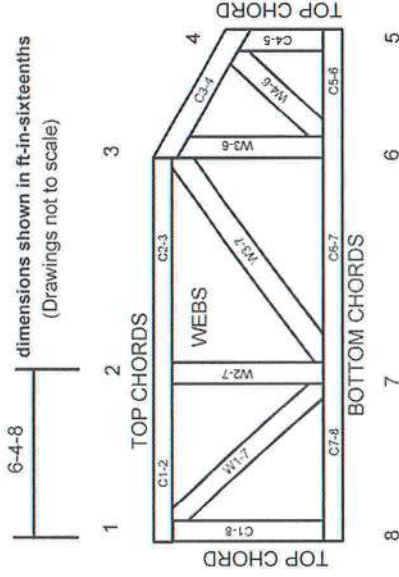
BEARING



Industry Standards:

- ANSI/TPI1: National Design Specification for Metal Plate Connected Wood Truss Construction.
- DSB-89: Design Standard for Bracing.
- BCSI: Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

Numbering System



JOINTS ARE GENERALLY NUMBERED/LETTERED CLOCKWISE AROUND THE TRUSS STARTING AT THE JOINT FARTHEST TO THE LEFT.

CHORDS AND WEBS ARE IDENTIFIED BY END JOINT NUMBERS/LETTERS.

PRODUCT CODE APPROVALS

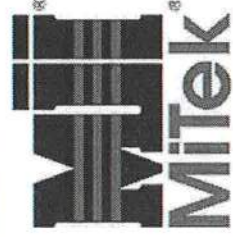
ICC-ES Reports:

ESR-1311, ESR-1352, ESR1988
ER-3907, ESR-2362, ESR-1397, ESR-3282

Trusses are designed for wind loads in the plane of the truss unless otherwise shown.

Lumber design values are in accordance with ANSI/TPI 1 section 6.3 These truss designs rely on lumber values established by others.

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MiTek Engineering Reference Sheet: MIT-7473 rev. 5/19/2020

General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

1. Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI.
2. Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor 1 bracing should be considered.
3. Never exceed the design loading shown and never slack materials on inadequately braced trusses.
4. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
5. Cut members to bear tightly against each other.
6. Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI 1.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
8. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
9. Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
10. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
11. Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
12. Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
13. Top chords must be sheathed or purlins provided at spacing indicated on design.
14. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
15. Connections not shown are the responsibility of others.
16. Do not cut or alter truss member or plate without prior approval of an engineer.
17. Install and load vertically unless indicated otherwise.
18. Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
19. Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
20. Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.
21. The design does not take into account any dynamic or other loads other than those expressly stated.