



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

RE: CASE - ROOF DESIGN INFO

MiTek USA, Inc.

6904 Parke East Blvd
Tampa, FL 33610-4115

Site Information:

Customer Info: CASE Project Name: CASE Model:
Lot/Block: . Subdivision: .
Address: .
City: COLUMBIA COUNTY State: FLORIDA

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

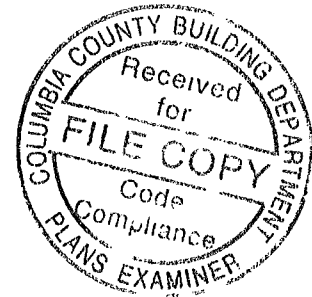
Name: License #:
Address:
City: State:

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

Design Code: FBC2010 Design Program: OnLine Plus 30.0.033 ☐
Wind Code: ASCE 7-10 Wind Speed: 120 mph
Roof Load: 40.0 psf Floor Load: N/A psf

This package includes 9 individual, dated 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.

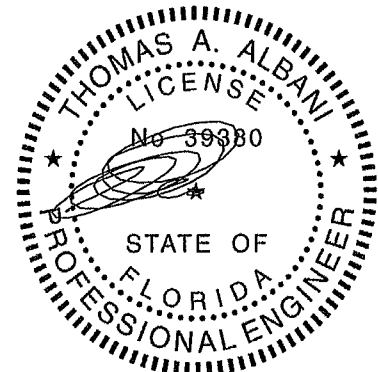
No.	Seal#	Truss Name	Date
1	T6460264	A1	8/7/014
2	T6460265	A2GIR	8/7/014
3	T6460266	A3GE	8/7/014
4	T6460267	A4	8/7/014
5	T6460268	A5GIR	8/7/014
6	T6460269	A6GE	8/7/014
7	T6460270	P1	8/7/014
8	T6460271	P1GIR	8/7/014
9	T6460272	P2GE	8/7/014



The truss drawing(s) referenced above have been prepared by MiTek Industries, Inc. under my direct supervision based on the parameters provided by Mayo Truss Company, Inc..

Truss Design Engineer's Name: Albani, Thomas
My license renewal date for the state of Florida is February 28, 2015.

IMPORTANT NOTE: Truss Engineer's responsibility is solely for design of individual trusses based upon design parameters shown on referenced truss drawings. Parameters have not been verified as appropriate for any use. Any location identification specified is for file reference only and has not been used in preparing design. Suitability of truss designs for any particular building is the responsibility of the building designer, not the Truss Engineer, per ANSI/TPI-1, Chapter 2.

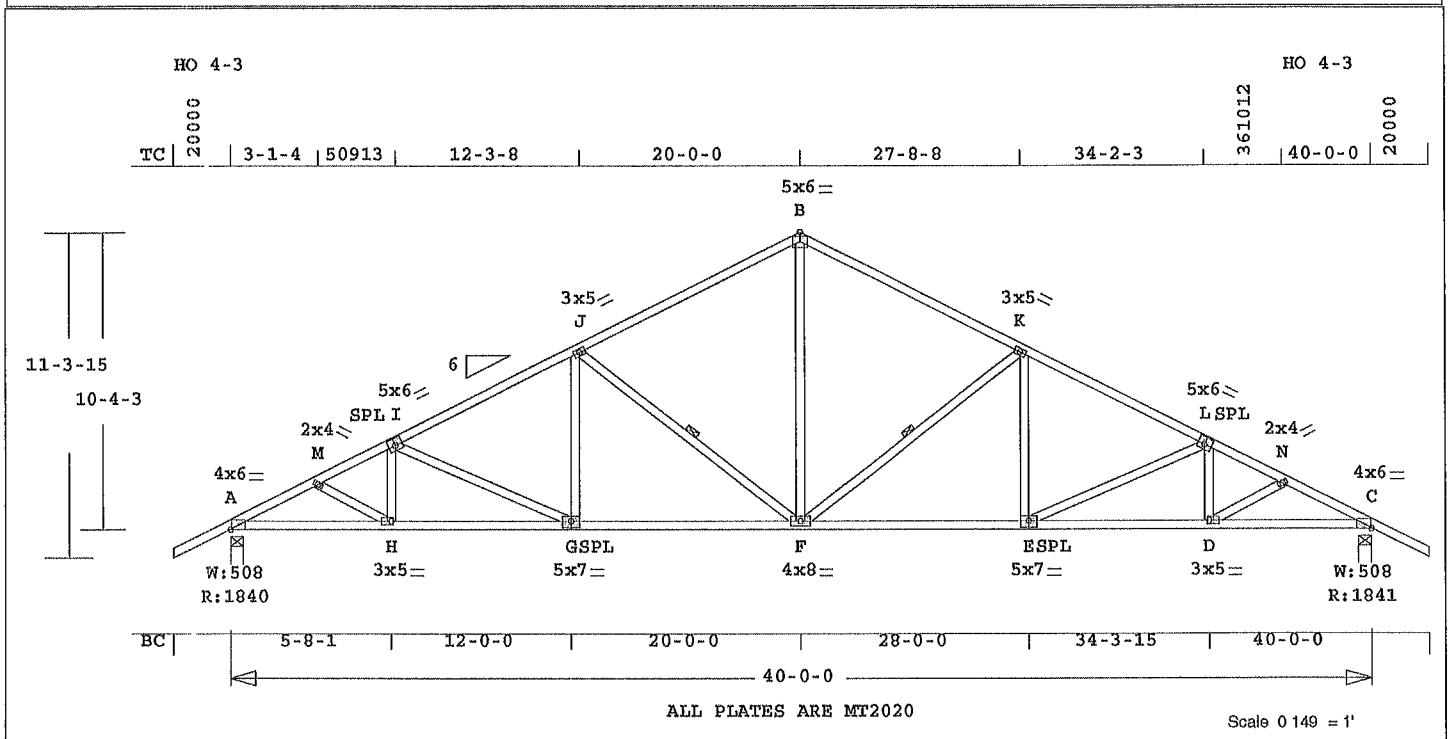


FL Cert. 6634

August 7, 2014

Job	Mark	Quan	Type	'Span'	P1-H1	Left OH	Right OH	Engineering
CASE	A1	15	TR	400000	6	2- 0- 0	2- 0- 0	T6460264

CASE



Online Plus -- Version 30.0.033
RUN DATE: 07-AUG-14

Southern Pine lumber design
values are those effective
06-01-13 by SPIB//ALSC UON
CSI -Size- -- Lumber----
TC 0.87 2x 4 SP #2
BC 0.86 2x 4 SP #2
WB 0.40 2x 4 SP #2

Brace truss as follows:
O.C. From To
TC Cont. 0- 0 40- 0- 0
BC Cont. 0- 0 40- 0- 0
or 102.0" 0- 0 40- 0- 0
Continuous Lateral Restraint
req'd at mid-point of webs:
J -F F -K
Attach CLR with (2)-10d nails
at each web.
Refer to BCSI for diagonal
restraint requirements.

psf-Ld	Dead	Live
TC	10.0	20.0
BC	10.0	0.0
TC+BC	20.0	20.0
Total	40.0	Spacing 24.0"
Lumber	Duration Factor 1.25	
Plate	Duration Factor 1.25	
	Fb Fc Ft Emin	
TC	1.15 1.10 1.10 1.10	
BC	1.10 1.10 1.10 1.10	

Total Load Reactions (Lbs)
Jt Down Uplift Horiz-
A 1841 155 R
C 1841 154 R

Jt	Brg Size	Required
A	5.5"	2.2"
C	5.5"	2.2"

Plus 21 Wind Load Case(s)
Plus 1 LL Load Case(s)
Plus 1 BC LL Load Case(s)
Plus 1 DL Load Case(s)

Membr	CSI	P	Lbs	Ax1-CSI-Bnd
-----Top Chords-----				
A -M	0.41	3239	C	0.09 0.32
M -I	0.32	3183	C	0.09 0.23
I -J	0.60	2743	C	0.06 0.54
J -B	0.87	1973	C	0.21 0.66
B -K	0.87	1973	C	0.21 0.66
K -L	0.60	2743	C	0.06 0.54
L -N	0.32	3183	C	0.09 0.23
N -C	0.41	3239	C	0.09 0.32
-----Bottom Chords-----				

MiTek® Online Plus™ APPROX TRUSS WEIGHT: 291 9 LBS

A -H	0.75	2856	T	0.58 0.17
H -G	0.86	2878	T	0.59 0.27
G -F	0.83	2463	T	0.50 0.33
F -E	0.83	2463	T	0.50 0.33
E -D	0.86	2878	T	0.59 0.27
D -C	0.75	2857	T	0.58 0.17
-----Webs-----				
M -H	0.01	78	T	
H -I	0.03	198	T	
I -G	0.39	453	C	
G -J	0.09	444	T	
J -F	0.40	887	C	1 Br
F -B	0.33	1298	T	
B -K	0.40	887	C	1 Br
K -E	0.09	444	T	
E -L	0.39	453	C	
D -L	0.03	198	T	
D -N	0.01	78	T	

LL Defl -0.60" in F -E L/785
LL Defl -0.28" in F -E L/999
Shear // Grain in J -B 0.27

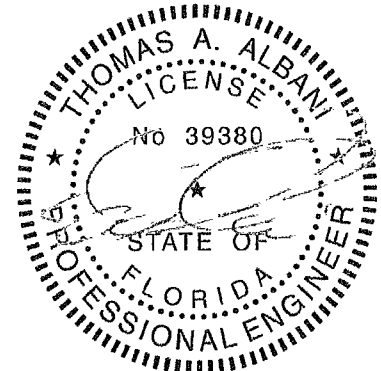
Plates for each ply each face.
Plate - MT20 20 Ga, Gross Area
Plate - MT2H 20 Ga, Gross Area
Jt Type Plt Size X Y JSI
A MT20 4.0x 6.0 Ctr 0.1 0.87
M MT20 2.0x 4.0 Ctr Ctr 0.27
I MT20 5.0x 6.0-0.2 0.5 0.67
J MT20 3.0x 5.0 Ctr Ctr 0.36
B MT20 5.0x 6.0 Ctr-0.1 0.81
K MT20 3.0x 5.0 Ctr Ctr 0.36
L MT20 5.0x 6.0 0.2 0.5 0.67
N MT20 2.0x 4.0 Ctr Ctr 0.27
C MT20 4.0x 6.0 Ctr 0.1 0.87
H MT20 3.0x 5.0 Ctr Ctr 0.33
G MT20 5.0x 7.0 Ctr-0.5 0.92
F MT20 4.0x 8.0 Ctr Ctr 0.49
E MT20 5.0x 7.0 Ctr-0.5 0.92
D MT20 3.0x 5.0 Ctr Ctr 0.33

REVIEWED BY:
MiTek Industries, Inc.
6904 Parke East Blvd.
Tampa, FL 33610

REFER TO ONLINE PLUS GENERAL
NOTES AND SYMBOLS SHEET FOR
ADDITIONAL SPECIFICATIONS.

NOTES:
Trusses Manufactured by:
Mayo Truss Co. Inc.
Analysis Conforms To:
FBC2010
TPI 2007
OH Loading
Soffit psf 2.0
This truss has been designed

for 20.0 psf LL on the B.C.
in areas where a rectangle
3- 6- 0 tall by
2- 0- 0 wide
will fit between the B.C.
and any other member.
Design checked for 10 psf non-
concurrent LL on BC.
Wind Loads - ANSI / ASCE 7-10
Truss is designed as
Components and Claddings*
for Exterior zone location.
Wind Speed: 120 mph
Risk Category : II
Mean Roof Height: 15-0
Exposure Category: B
Building Type: Enclosed
TC Dead Load: 6.0 psf
BC Dead Load: 6.0 psf
Max comp. force 3239 Lbs
Max tens. force 2878 Lbs
Connector Plate Fabrication
Tolerance = 20%
This truss is designed for a
creep factor of 1.5 which
is used to calculate total
load deflection.

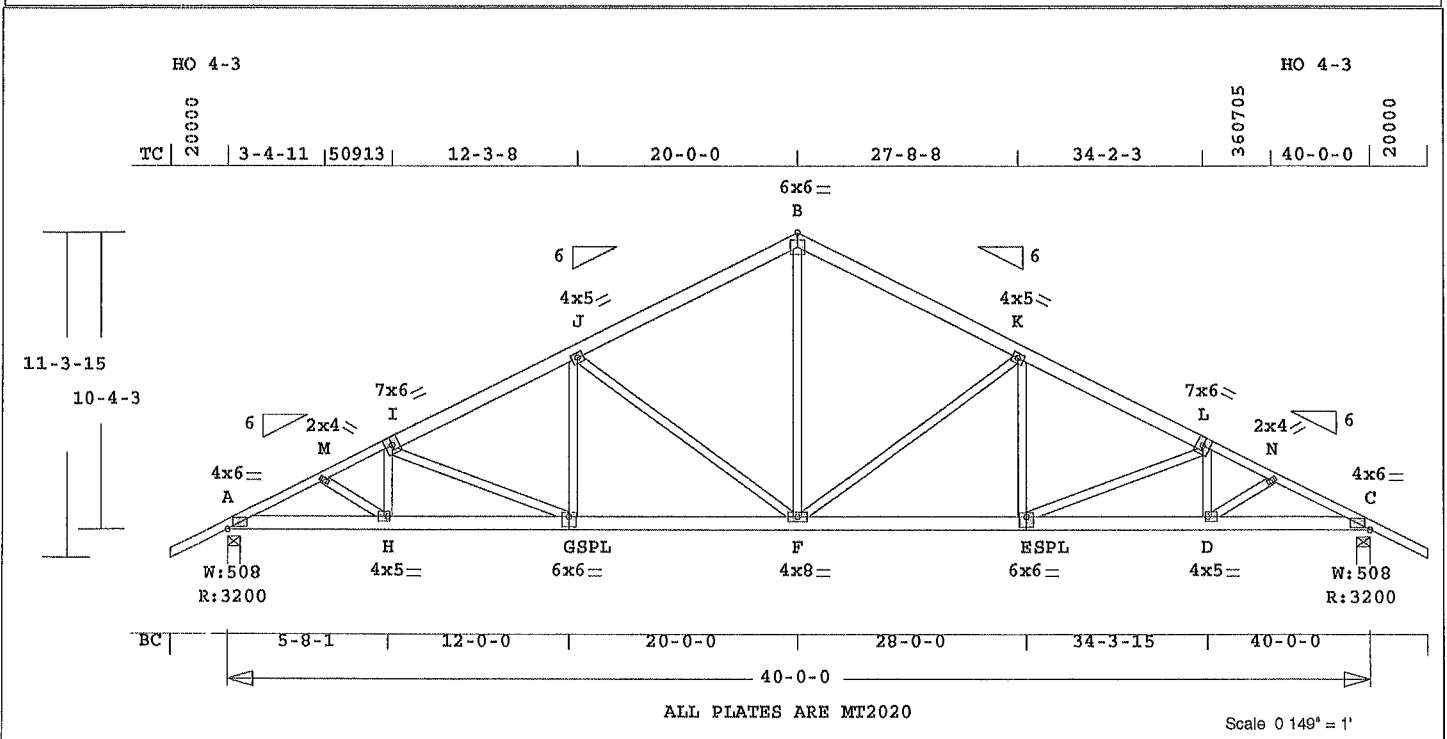


FL Cert. 6634

August 7, 2014

Job	Mark	Quan	Type	Span	P1-H1	Left OH	Right OH	Engineering
CASE	A2GIR	1*2P	TR	400000	6	2- 0- 0	2- 0- 0	T6460265

CASE



Online Plus -- Version 30.0.033
 RUN DATE: 07-AUG-14

 * 2-Ply Truss *

Southern Pine lumber design
 values are those effective
 06-01-13 by SPIB//ALSC UON
 CSI -Size- -- -Lumber-----
 TC 0.28 2x 6 SP-#2
 -- 0.22 2x 4 SP-#2
 A -I L -C
 BC 0.52 2x 6 SP-#2
 WB 0.57 2x 4 SP #2

Brace truss as follows:
 O.C. From To
 TC 24.0" 0- 0 0 40- 0- 0
 BC 120 0" 0- 0 0 40- 0- 0

psf-Ld Dead Live
 TC 10 0 20.0
 BC 10 0 0.0
 TC+BC 20.0 20.0
 Total 40.0 Spacing 42.0"
 Lumber Duration Factor 1.25
 Plate Duration Factor 1.25
 Pb Fc Ft Emin
 TC 1.00 1.00 1.00 1.00
 BC 1.00 1.00 1.00 1.00

Total Load Reactions (lbs)
 Jt Down Uplift Horiz-
 A 3201 267 R
 C 3201 266 R

Jt Brg Size Required
 A 5.5" 1.9"
 C 5.5" 1.9"

Plus 21 Wind Load Case(s)
 Plus 1 LL Load Case(s)
 Plus 1 BC LL Load Case(s)
 Plus 1 DL Load Case(s)

Membr CSI P Lbs Axl-CST-Bnd
 -----Top Chords-----
 A -M 0.22 5842 C 0.12 0.10
 M -I 0.20 5701 C 0.11 0.09
 I -J 0.27 4871 C 0.02 0.25
 J -B 0.28 3471 C 0.01 0.27
 B -K 0.28 3471 C 0.01 0.27
 K -L 0.27 4871 C 0.02 0.25
 L -N 0.20 5701 C 0.11 0.09
 N -C 0.22 5842 C 0.12 0.10
 -----Bottom Chords-----
 A -H 0.52 5209 T 0.42 0.10
 H -G 0.51 5161 T 0.41 0.10

MiTek® Online Plus™ APPROX
 G -F 0.48 4394 T 0.35 0.13
 F -E 0.48 4394 T 0.35 0.13
 E -D 0.51 5161 T 0.41 0.10
 D -C 0.52 5209 T 0.42 0.10
 -----Webs-----
 M -H 0.01 162 T
 H -I 0.03 376 T
 I -G 0.15 832 C
 G -J 0.08 788 T
 J -F 0.57 1636 C
 F -B 0.26 2329 T
 B -K 0.57 1636 C
 E -K 0.08 788 T
 E -L 0.15 832 C
 D -L 0.03 376 T
 D -N 0.01 162 T

Th Defl -0.34" in F -E L/999
 LL Defl -0.15" in F -E L/999
 Shear // Grain in J -B 0.16

Plates for each ply each face.
 Plate - MT20 20 Ga, Gross Area
 Plate - MT2H 20 Ga, Gross Area
 Jt Type Plt Size X Y JSI
 A MT20 4.0x 6.0 Ctr Ctr 0.82
 M MT20 2.0x 4.0 Ctr Ctr 0.14
 I MT20 7.0x 6.0 Ctr Ctr 0.43
 J MT20 4.0x 5.0 Ctr Ctr 0.23
 B MT20 6.0x 6.0 Ctr Ctr 0.45
 K MT20 4.0x 5.0 Ctr Ctr 0.23
 L MT20 7.0x 6.0 Ctr Ctr 0.43
 N MT20 2.0x 4.0 Ctr Ctr 0.14
 C MT20 4.0x 6.0 Ctr Ctr 0.82
 H MT20 4.0x 5.0 Ctr Ctr 0.12
 G MT20 6.0x 6.0 Ctr-1.2 0.63
 F MT20 4.0x 8.0 Ctr Ctr 0.44
 E MT20 6.0x 6.0 Ctr-1.2 0.63
 D MT20 4.0x 5.0 Ctr Ctr 0.12

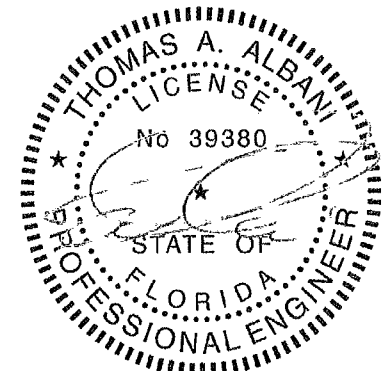
REVIEWED BY:
 MiTek Industries, Inc.
 6904 Parke East Blvd
 Tampa, FL 33610

REFER TO ONLINE PLUS GENERAL
 NOTES AND SYMBOLS SHEET FOR
 ADDITIONAL SPECIFICATIONS.

NOTES:
 Trusses Manufactured by:
 Mayo Truss Co. Inc.
 Analysis Conforms To:
 FBC2010
 TPI 2007

TRUSS WEIGHT: 355 0 LBS
 2 COMPLETE TRUSSES REQUIRED.
 Fasten plies together in
 staggered pattern.
 Connector Rows Spacing
 TC 10d Gun Nails 1 12.0 in
 BC 10d Gun Nails 2 12.0 in
 WB 10d Gun Nails 1 8.0 in
 TC Connection Exception --
 Space connectors for the
 following top chords -
 I -B 2 rows @ 12.0" o c
 B -L 2 rows @ 12.0" o.c.
 Web Connection Exception --
 Space connectors for the
 following webs-
 J -F 1 rows @ 4.0" o c.
 F -K 1 rows @ 4.0" o c.
 10d gun nails (0.131"x3")
 must be installed as noted
 above, as each layer is
 applied.

OH Loading
 Soffit psf 2.0
 This truss has been designed
 for 20.0 psf LL on the B.C.
 in areas where a rectangle
 3- 6- 0 tall by
 2- 0- 0 wide
 will fit between the B C
 and any other member.
 Design checked for 10 psf non-
 concurrent LL on BC.
 Wind Loads - ANSI / ASCE 7-10
 Truss is designed as
 Components and Claddings*
 for Exterior zone location.
 Wind Speed: 120 mph
 Risk Category : II
 Mean Roof Height: 15-0
 Exposure Category: B
 Building Type: Enclosed
 TC Dead Load: 6.0 psf
 BC Dead Load: 6.0 psf
 Max comp. force 5842 Lbs
 Max tens. force 5209 Lbs
 Connector Plate Fabrication
 Tolerance = 20%
 This truss is designed for a
 creep factor of 1.5 which
 is used to calculate total
 load deflection.

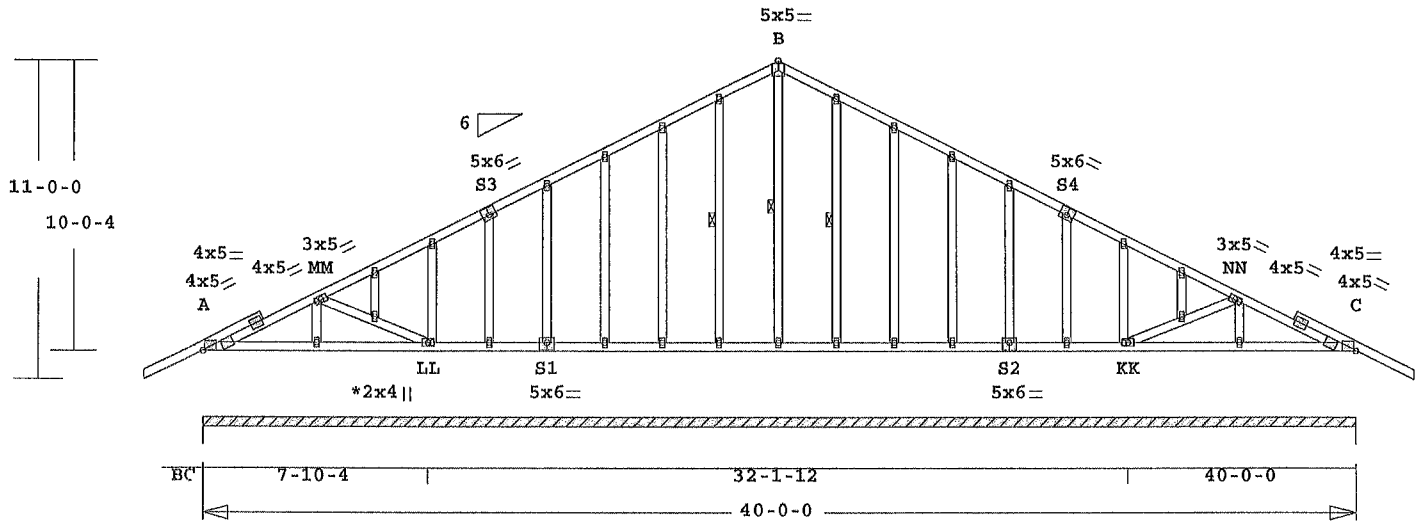


FL Cert. 6634

Job	Mark	Quan	Type	Span	P1-H1	Left OH	Right OH	Engineering
CASE	A3GE	1	TR	400000	6	0	0	T6460266

CASE

HO 4 TC 4-1-12 20-0-0 35-10-4 HO 4 40-0-0



ALL PLATES ARE MT2020

See * For Typical Gable Plate Size and Placement

Scale 0 151" = 1

Online Plus -- Version 30.0.033
RUN DATE: 07-AUG-14

Southern Pine Lumber design
values are those effective
06-01-13 by SPIB//ALSC UON
CSI -Size- -- Lumber-----
TC 0.15 2x 4 SP-#2
BC 0.09 2x 4 SP-#2
WB 0.05 2x 4 SP-#2
GW 0.21 2x 4 SP-#2

Brace truss as follows:
O.C. From To
TC Cont. 0- 0- 0 40- 0- 0
or 48 0" 0- 0- 0 40- 0- 0
BC Cont. 0- 0- 0 40- 0- 0
or 120 0" 0- 0- 0 40- 0- 0

Continuous Lateral Restraint
req'd at mid-point of webs:
S -R T -B V -U
Attach CLR with (2)-10d nails
at each web.
Refer to BCSI for diagonal
restraint requirements

psf-Ld	Dead	Live
TC	10.0	20.0
BC	10.0	0.0
TC+BC	20.0	20.0
Total	40.0	Spacing 24.0"
Lumber	Duration Factor 1.25	
Plate	Duration Factor 1.25	
	Pb	Pc
TC	1.15	1.10
BC	1.10	1.10

Total Load Reactions (Lbs)	Jt	Down	Uplift	Horiz-
A	3200		149 R	
Jt	Brg Size	Required		
A	480.0"	0"-to- 480"		

Plus 21 Wind Load Case(s)
Plus 1 LL Load Case(s)
Plus 1 DL Load Case(s)

Membr	CSI	P	Lbs	Axl	CSI-Bnd
A-MM	0.15	161 C	0.00	0.15	
MM-H	0.15	127 C	0.00	0.15	
H-S3	0.11	76 C	0.00	0.11	
S3-L	0.03	61 C	0.00	0.03	
L-N	0.03	57 C	0.00	0.03	
N-P	0.03	95 T	0.00	0.03	
P-R	0.03	137 T	0.00	0.03	
R-B	0.04	174 T	0.02	0.02	
B-U	0.04	174 T	0.02	0.02	
U-W	0.03	137 T	0.00	0.03	

MiTek® Online Plus™ APPROX	W	-Y	0.03	95 T	0.00	0.03
Y-AA	0.03	57 C	0.00	0.03		
AA-S4	0.03	61 C	0.00	0.03		
S4-EE	0.11	76 C	0.00	0.11		
EE-NN	0.15	127 C	0.00	0.15		
NN-C	0.15	161 C	0.00	0.15		
-----Bottom Chords-----						
A-E	0.09	6 T	0.00	0.09		
E-I	0.09	0 T	0.00	0.09		
I-K	0.06	0 T	0.00	0.06		
K-S1	0.02	0 T	0.00	0.02		
S1-O	0.02	0 T	0.00	0.02		
O-Q	0.02	0 T	0.00	0.02		
Q-S	0.02	0 T	0.00	0.02		
S-T	0.02	0 T	0.00	0.02		
T-V	0.02	0 T	0.00	0.02		
V-X	0.02	0 T	0.00	0.02		
X-Z	0.02	0 T	0.00	0.02		
Z-S2	0.02	0 T	0.00	0.02		
S2-DD	0.02	0 T	0.00	0.02		
DD-FF	0.06	0 T	0.00	0.06		
FF-JJ	0.09	0 T	0.00	0.09		
JJ-C	0.09	6 T	0.00	0.09		
-----Webs-----						
MM-I	0.05	188 T				
FF-NN	0.05	188 T				
-----Gable Webs-----						
E-MM	0.01	145 C				
I-H	0.05	196 C				
K-S3	0.04	93 C				
S1-L	0.09	124 C				
O-N	0.12	119 C				
Q-P	0.16	120 C				
S-R	0.21	122 C			1 Br	
T-B	0.18	86 C			1 Br	
V-U	0.21	122 C			1 Br	
X-W	0.16	120 C				
Z-Y	0.12	119 C				
S2-AA	0.09	124 C				
DD-S4	0.04	93 C				
FF-EE	0.05	196 C				
JJ-NN	0.01	145 C				

TL Defl	-0.01"	in JJ-C	L/999
LL Defl	0.00" <th>in E-I</th> <th>L/999</th>	in E-I	L/999
Shear // <td>Grain <th>in A-D</th> <th>0.14</th> </td>	Grain <th>in A-D</th> <th>0.14</th>	in A-D	0.14

Plates for each ply each face.
Plate - MT20 20 Ga, Gross Area
Plate - MT2H 20 Ga, Gross Area
Jt Type Plt Size X Y JSI

A	MT20	4.0x	5.0	Ctr	-0.3	0.39
MM	MT20	3.0x	5.0 <td>Ctr</td> <td>Ctr</td> <td>0.36</td>	Ctr	Ctr	0.36
H	MT20	2.0x	4.0 <td>Ctr</td> <td>Ctr</td> <td>0.33</td>	Ctr	Ctr	0.33
S3	MT20	5.0x	6.0	-0.2	0.5	0.38
L	MT20	2.0x	4.0 <td>Ctr</td> <td>Ctr</td> <td>0.29</td>	Ctr	Ctr	0.29
N	MT20	2.0x	4.0 <td>Ctr</td> <td>Ctr</td> <td>0.28</td>	Ctr	Ctr	0.28
P	MT20	2.0x	4.0 <td>Ctr</td> <td>Ctr</td> <td>0.28</td>	Ctr	Ctr	0.28
R	MT20	2.0x	4.0 <td>Ctr</td> <td>Ctr</td> <td>0.28</td>	Ctr	Ctr	0.28
B	MT20	5.0x	5.0 <td>Ctr</td> <td>Ctr</td> <td>0.34</td>	Ctr	Ctr	0.34

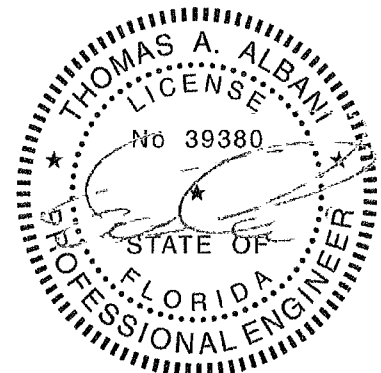
TRUSS WEIGHT: 355 2 LBS
U MT20 2.0x 4.0 Ctr Ctr 0.28
W MT20 2.0x 4.0 Ctr Ctr 0.28
Y MT20 2.0x 4.0 Ctr Ctr 0.28
AA MT20 2.0x 4.0 Ctr Ctr 0.29
S4 MT20 5.0x 6.0 0.2 0.5 0.38
EE MT20 2.0x 4.0 Ctr Ctr 0.33
NN MT20 3.0x 5.0 Ctr Ctr 0.36
C MT20 4.0x 5.0 Ctr -0.3 0.39
E MT20 2.0x 4.0 Ctr Ctr 0.30
I MT20 3.0x 5.0 Ctr Ctr 0.33
K MT20 2.0x 4.0 Ctr Ctr 0.34
S1 MT20 5.0x 6.0 Ctr -0.5 0.39
O MT20 2.0x 4.0 Ctr Ctr 0.34
Q MT20 2.0x 4.0 Ctr Ctr 0.34
S MT20 2.0x 4.0 Ctr Ctr 0.34
T MT20 2.0x 4.0 Ctr Ctr 0.34
V MT20 2.0x 4.0 Ctr Ctr 0.34
X MT20 2.0x 4.0 Ctr Ctr 0.34
Z MT20 2.0x 4.0 Ctr Ctr 0.34
S2 MT20 5.0x 6.0 Ctr -0.5 0.39
DD MT20 2.0x 4.0 Ctr Ctr 0.34
FF MT20 3.0x 5.0 Ctr Ctr 0.33
JJ MT20 2.0x 4.0 Ctr Ctr 0.30

2 Gable studs to be attached
with 2.0x4.0 plates each end.
REVIEWED BY:
MiTek Industries, Inc.
6904 Parke East Blvd.
Tampa, FL 33610

REFER TO ONLINE PLUS GENERAL
NOTES AND SYMBOLS SHEET FOR
ADDITIONAL SPECIFICATIONS.

NOTES:
Trusses Manufactured by:
Mayo Truss Co. Inc.
Analysis Conforms To:
FBC2010
TPI 2007
WARNING Do Not Cut overframe
member between outside of
truss and first tie-plate
to inside of heel plate
Design checked for 10 psf non-
concurrent LL on BC.
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.
Wind Loads - ANSI / ASCE 7-10
Truss is designed as
Components and Claddings*
for Exterior zone location.

Wind Speed: 120 mph
Risk Category: II
Mean Roof Height: 15-0
Exposure Category: B
Building Type: Enclosed
TC Dead Load: 6.0 psf
BC Dead Load: 6.0 psf
Max comp. force 196 Lbs
Max tens. force 188 Lbs
Connector Plate Fabrication
Tolerance = 20%
This truss is designed for a
creep factor of 1.5 which
is used to calculate total
load deflection.



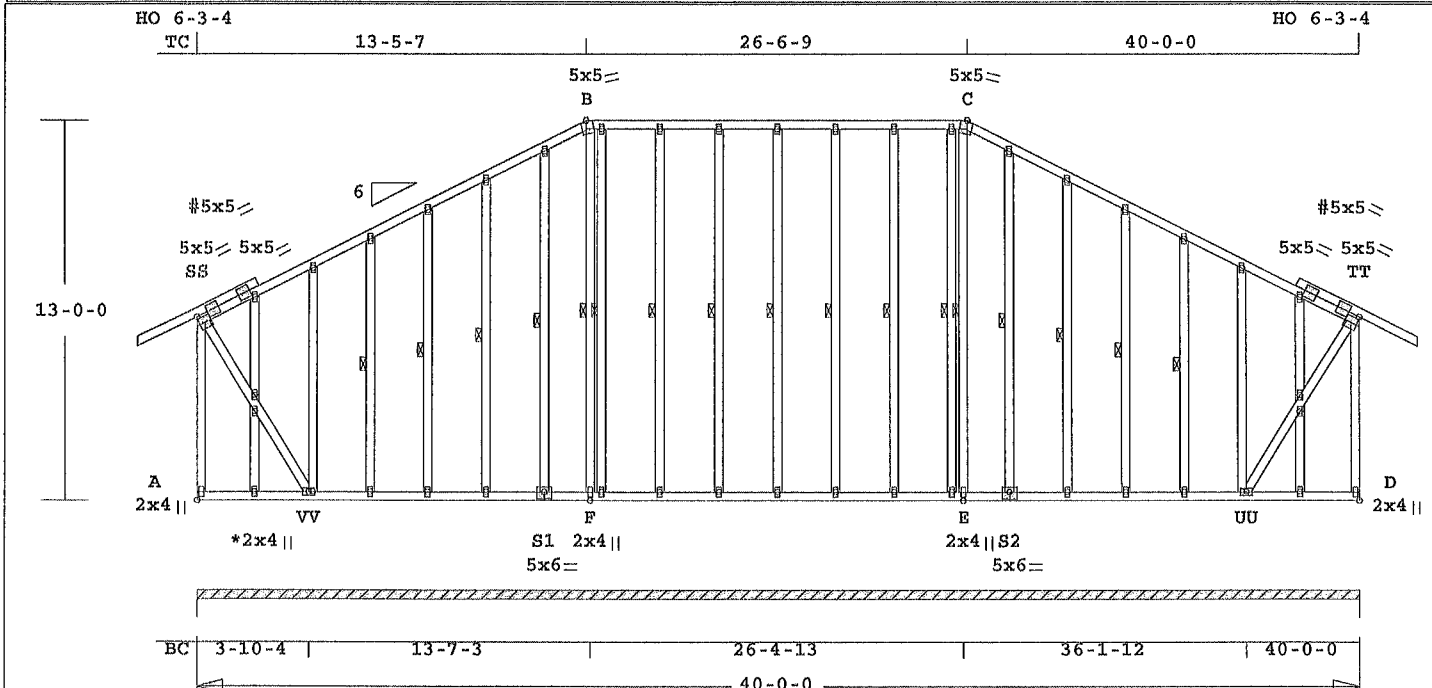
FL Cert. 6634

August 7, 2014

Job CASE	Mark A4	Quan 11	Type HIPP	' Span ' 400000	P1-H1 6	Left OH 2- 0- 0	Right OH 2- 0- 0	Engineering T6460267
CASE								

load deflection.

CASE



ALL PLATES ARE MT2020, # = PLATE SELECTED IN PLATE MONITOR
See * For Typical Gable Plate Size and Placement

Scale 0 152 = 1'

Online Plus -- Version 30.0 033
RUN DATE: 07-AUG-14

Southern Pine lumber design values are those effective 06-01-13 by SP1B//ALSC UON

	CSI	-Size-	--	-Lumber----
TC	0.19	2x 4	SP	#2
BC	0.09	2x 4	SP	#2
WB	0.20	2x 4	SP	#2
GW	0.45	2x 4	SP	#2

Brace truss as follows:

	O.C	From	To
TC	Cont	0- 0	0 13- 5- 7
or	48.0 "	0- 0	0 13- 5- 7
TC	48 0 "	13- 5-	7 26- 6- 9
TC	Cont	26- 6	9 40- 0- 0
or	48.0 "	26- 6	9 40- 0- 0
BC	Cont.	0- 0	0 40- 0- 0
or	120.0 "	0- 0	0 40- 0- 0

Continuous Lateral Restraint

```

req'd at mid-point of webs:
F -B   E -C   L K   N -M
P -O   S1-Q  T -S   V -U
X -W   Z -Y   BB AA  DD-CC
FF-EE  S2-GG  JJ YY  LL-KK
NN-MM

```

Attach CLR with (2)-10d nails
at each web.
Refer to BCSI for diagonal
restraint requirements

psf-Ld	Dead	Live		
TC	10 0	20.0		
BC	10.0	0.0		
TC+BC	20 0	20.0		
Total	40 0	Spacing	24.0"	
Lumber	Duration	Factor	1.25	
Plate	Duration	Factor	1.25	
	Fb	Fc	Ft	Emin
TC	1.10	1.10	1 10	1.10
BC	1.10	1.10	1.10	1.10

Total Load Reactions (lbs)			
Jt	Down	Uplift	Horiz-
A	3200		233 R

Jt	Brg Size	Required
A	480 0"	0"-to- 480"

```

Plus 21 Wind Load Case(s)
Plus 1 LL Load Case(s)
Plus 1 DL Load Case(s)

```

Membr	CSI	P	Lbs	Axl-CBI-Bnd
-----Top Chords-----				
SS-I	0.19		67 T	0.01 0.18
I -K	0.15		76 T	0.00 0.15
K -M	0.04		103 T	0.00 0.04
M -O	0.04		146 T	0.00 0.04
O -Q	0.04		188 T	0.00 0.04
Q -B	0.04		217 T	0.03 0.01
B -S	0.04		212 T	0.03 0.01
S -U	0.04		212 T	0.03 0.01

MiTek® Online Plus™				APPROX	TRUSS WEIGHT	642 6 LBS			
U -W	0.04	212 T	0 00	0.04	Plate -	MT2H 20	Ga,	Gross	Area
W -Y	0.04	212 T	0 00	0.04	Jt Type	Plt Size	X	Y	J&I
Y -AA	0.04	212 T	0 00	0.04	SS MT20	5.0x 5.0	Ctr	Ctr	0.28
AA-CC	0.04	212 T	0 00	0.04	I MT20	2.0x 4.0	Ctr	Ctr	0.33
CC-EE	0.04	212 T	0 03	0.01	K MT20	2.0x 4.0	Ctr	Ctr	0.31
EE-C	0.04	212 T	0 03	0.01	M MT20	2.0x 4.0	Ctr	Ctr	0.29
C -GG	0.04	217 T	0 03	0.01	O MT20	2.0x 4.0	Ctr	Ctr	0.28
GG-II	0.04	188 T	0 00	0.04	Q MT20	2.0x 4.0	Ctr	Ctr	0.30
II-KK	0.04	146 T	0 00	0.04	B MT20	5.0x 5.0	0-7-3.0		0.33
KK-MM	0.04	103 T	0 00	0.04	S MT20	2.0x 4.0	Ctr	Ctr	0.34
MM-OO	0.15	76 T	0 00	0.15	U MT20	2.0x 4.0	Ctr	Ctr	0.34
OO-TT	0.19	67 T	0 01	0.18	W MT20	2.0x 4.0	Ctr	Ctr	0.34
-----Bottom Chords-----									
A -J	0.09	0 T	0 00	0.09	AA MT20	2.0x 4.0	Ctr	Ctr	0.34
J -L	0.08	0 T	0 00	0.08	CC MT20	2.0x 4.0	Ctr	Ctr	0.34
L -N	0.02	0 T	0 00	0.02	EE MT20	2.0x 4.0	Ctr	Ctr	0.34
N -P	0.02	0 T	0 00	0.02	C MT20	5.0x 5.0	0-7-3.0		0.33
P -S1	0.02	0 T	0 00	0.02	GG MT20	2.0x 4.0	Ctr	Ctr	0.30
S1-F	0.01	0 T	0 00	0.01	II MT20	2.0x 4.0	Ctr	Ctr	0.28
F -T	0.01	0 T	0 00	0.01	KK MT20	2.0x 4.0	Ctr	Ctr	0.29
T -V	0.02	0 T	0 00	0.02	MM MT20	2.0x 4.0	Ctr	Ctr	0.31
V -X	0.02	0 T	0 00	0.02	OO MT20	2.0x 4.0	Ctr	Ctr	0.33
X -Z	0.02	0 T	0 00	0.02	TT MT20	5.0x 5.0	Ctr	Ctr	0.24
Z -BB	0.02	0 T	0 00	0.02	A MT20	2.0x 4.0	Ctr	Ctr	0.34
BB-DD	0.02	0 T	0 00	0.02	J MT20	3.0x 5.0	Ctr	Ctr	0.33
DD-FF	0.02	0 T	0 00	0.02	L MT20	2.0x 4.0	Ctr	Ctr	0.34
FF-E	0.01	0 T	0 00	0.01	N MT20	2.0x 4.0	Ctr	Ctr	0.34
E -S2	0.01	0 T	0 00	0.01	P MT20	2.0x 4.0	Ctr	Ctr	0.34
S2-JJ	0.02	0 T	0 00	0.02	S1 MT20	5.0x 6.0	Ctr-0.5		0.39
JJ-LL	0.02	0 T	0 00	0.02	F MT20	2.0x 4.0	Ctr	Ctr	0.34
LL-NN	0.02	0 T	0 00	0.02	T MT20	2.0x 4.0	Ctr	Ctr	0.34
NN-PP	0.08	0 T	0 00	0.08	V MT20	2.0x 4.0	Ctr	Ctr	0.34
PP-D	0.09	0 T	0 00	0.09	X MT20	2.0x 4.0	Ctr	Ctr	0.34
-----Webs-----									
A -SS	0.17	203 C	WindLd		Z MT20	2.0x 4.0	Ctr	Ctr	0.34
SS-J	0.16	259 T			BB MT20	2.0x 4.0	Ctr	Ctr	0.34
F -B	0.20	55 C		1 Br	DD MT20	2.0x 4.0	Ctr	Ctr	0.34
E -C	0.20	55 C		1 Br	FF MT20	2.0x 4.0	Ctr	Ctr	0.34
PP-TT	0.16	259 T			B MT20	2.0x 4.0	Ctr	Ctr	0.34
D -TT	0.13	203 C	WindLd		S2 MT20	5.0x 6.0	Ctr-0.5		0.39
-----Gable Webs-----									
J -I	0.25	226 C			JJ MT20	2.0x 4.0	Ctr	Ctr	0.34
L -K	0.15	84 C		1 Br	LL MT20	2.0x 4.0	Ctr	Ctr	0.34
N -M	0.27	124 C		1 Br	NN MT20	2.0x 4.0	Ctr	Ctr	0.34
P -O	0.33	122 C		1 Br	PP MT20	3.0x 5.0	Ctr	Ctr	0.33
S1-Q	0.35	109 C		1 Br	D MT20	2.0x 4.0	Ctr	Ctr	0.34
T -S	0.26	73 C		1 Br	4 Gable studs to be attached with 2.0x4.0 plates each end.				
V -U	0.45	124 C		1 Br	REVIEWED BY:				
X -W	0.43	120 C		1 Br	MiTek Industries, Inc.				
Z -Y	0.43	119 C		1 Br	6904 Parke East Blvd.				
BB-AA	0.43	120 C		1 Br	Tampa, FL 33610				
DD-CC	0.45	124 C		1 Br					
FF-EE	0.26	73 C		1 Br	REFER TO ONLINE PLUS GENERAL				
S2-GG	0.35	109 C		1 Br	NOTES AND SYMBOLS SHEET FOR				
JJ-II	0.33	122 C		1 Br	ADDITIONAL SPECIFICATIONS.				
LL-KK	0.27	124 C		1 Br					
NN-MM	0.15	84 C		1 Br	NOTES:				
PP-OO	0.25	226 C			Trusses Manufactured by:				

TL Defl -0.01" in A -J L/999
LL Defl -0.01" in A -J L/999
Shear // Grain in SS-I 0.15

Plates for each ply each face.
Plate - MT20 20 Ga, Gross Area

Plots - M2H 20 Ga, Gross Area					
JS Type	Plt	Size	X	Y	J81
SS MT20	5.0x	5.0	Ctr	Ctr	0.28
I MT20	2.0x	4.0	Ctr	Ctr	0.33
K MT20	2.0x	4.0	Ctr	Ctr	0.31
M MT20	2.0x	4.0	Ctr	Ctr	0.29
O MT20	2.0x	4.0	Ctr	Ctr	0.28
Q MT20	2.0x	4.0	Ctr	Ctr	0.33
B MT20	5.0x	5.0	0.7-3.0	0.33	
S MT20	2.0x	4.0	Ctr	Ctr	0.34
U MT20	2.0x	4.0	Ctr	Ctr	0.34
W MT20	2.0x	4.0	Ctr	Ctr	0.34
Y MT20	2.0x	4.0	Ctr	Ctr	0.34
AA MT20	2.0x	4.0	Ctr	Ctr	0.34
CC MT20	2.0x	4.0	Ctr	Ctr	0.34
EE MT20	2.0x	4.0	Ctr	Ctr	0.34
C MT20	5.0x	5.0	0.7-3.0	0.33	
GG MT20	2.0x	4.0	Ctr	Ctr	0.30
II MT20	2.0x	4.0	Ctr	Ctr	0.28
KK MT20	2.0x	4.0	Ctr	Ctr	0.29
NN MT20	2.0x	4.0	Ctr	Ctr	0.31
OO MT20	2.0x	4.0	Ctr	Ctr	0.33
TT MT20	5.0x	5.0	Ctr	Ctr	0.24
A MT20	2.0x	4.0	Ctr	Ctr	0.34
J MT20	3.0x	5.0	Ctr	Ctr	0.33
L MT20	2.0x	4.0	Ctr	Ctr	0.34
N MT20	2.0x	4.0	Ctr	Ctr	0.34
P MT20	2.0x	4.0	Ctr	Ctr	0.34
S1 MT20	5.0x	6.0	Ctr	-0.5	0.39
F MT20	2.0x	4.0	Ctr	Ctr	0.34
T MT20	2.0x	4.0	Ctr	Ctr	0.34
V MT20	2.0x	4.0	Ctr	Ctr	0.34
X MT20	2.0x	4.0	Ctr	Ctr	0.34
Z MT20	2.0x	4.0	Ctr	Ctr	0.34
BB MT20	2.0x	4.0	Ctr	Ctr	0.34
DD MT20	2.0x	4.0	Ctr	Ctr	0.34
FF MT20	2.0x	4.0	Ctr	Ctr	0.34
E MT20	2.0x	4.0	Ctr	Ctr	0.34
S2 MT20	5.0x	6.0	Ctr	-0.5	0.39
JJ MT20	2.0x	4.0	Ctr	Ctr	0.34
LL MT20	2.0x	4.0	Ctr	Ctr	0.34
NN MT20	2.0x	4.0	Ctr	Ctr	0.34
PP MT20	3.0x	5.0	Ctr	Ctr	0.33
D MT20	2.0x	4.0	Ctr	Ctr	0.34

4 Gable studs to be attached
with 2.0x4.0 plates each end.
REVIEWED BY:
MiTek Industries, Inc.
6904 Parke East Blvd.
Tampa, FL 33610

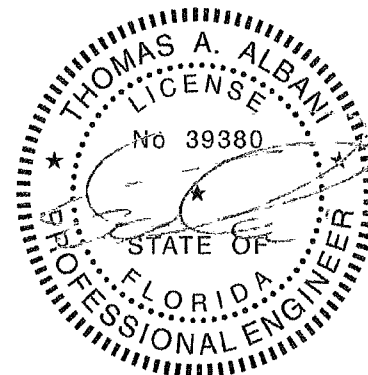
REFER TO ONLINE PLUS GENERAL
NOTES AND SYMBOLS SHEET FOR
ADDITIONAL SPECIFICATIONS.

NOTES:
Trusses Manufactured by:
Mayo Truss Co. Inc.
Analysis Conforms To:
FBC2010
TPI 2007
Design checked for 10 psf non-
concurrent LL on BC.
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.

NOTE: USER MODIFIED PLATES
This design may have plates selected through a plate monitor.

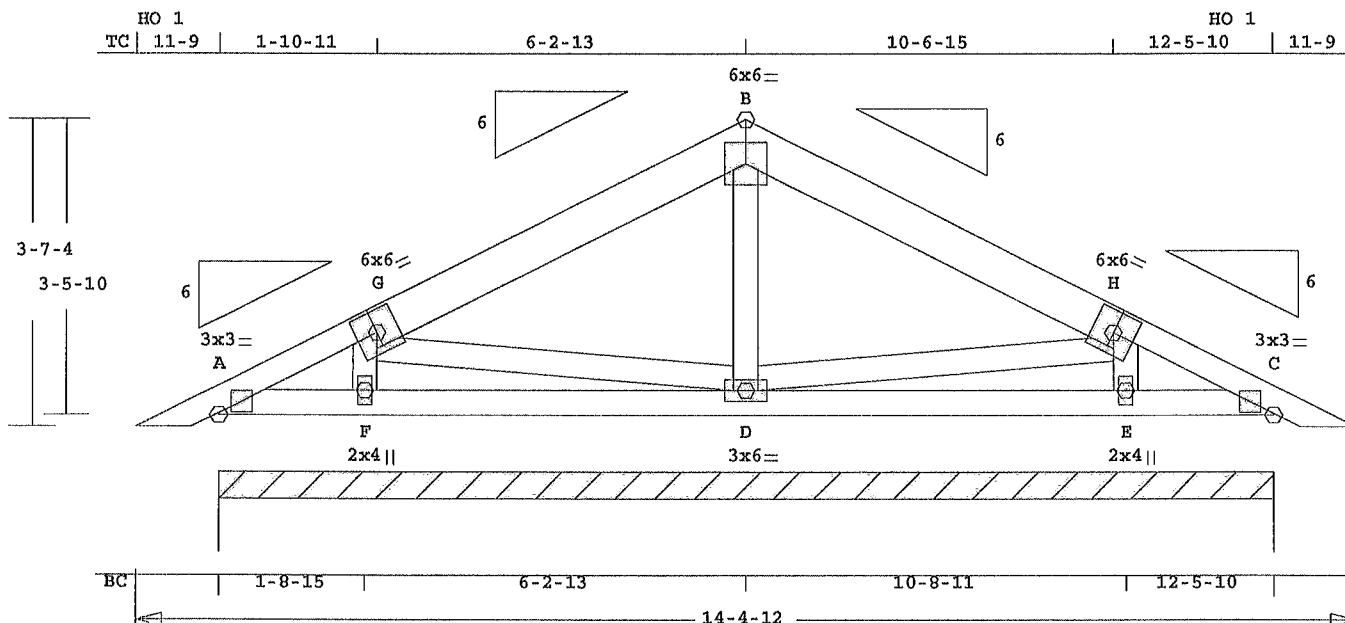
Wind Loads - ANSI / ASCE 7-10
Truss is designed as
Components and Claddings*
for Exterior zone location.
Wind Speed: 120 mph
Risk Category : II
Mean Roof Height: 15-0
Exposure Category: B
Building Type: Enclosed
TC Dead Load: 6.0 psf
BC Dead Load: 6.0 psf
Max comp. force 226 Lbs
Max tens. force 259 Lbs
Connector Plate Fabrication
Tolerance = 20%
This truss is designed for a
creep factor of 1.5 which
is used to calculate total
load deflection.



FL Cert. 6634

August 7, 2014

CASE



ALL PLATES ARE MT2020

Scale 0.443' = 1

Online Plus -- Version 30.0.033
RUN DATE: 07-AUG-14

```

Southern Pine lumber design
values are those effective
06-01-13 by SPIB//ALSC UON
      CSI -Size- ---Lumber---
TC  0.22  2x 4  SP-#2
--  0.20  2x 6  SP-#2
      G-B    B-H
BC  0.24  2x 4  SP-#2
WB  0.06  2x 4  SP-#2

```

Brace truss as follows:				
	O.C.	From	To	
TC	24.0"	0- 0-	0 14-	4-12
BC	120.0"	0- 0-	0 14-	4-12

psf-Ld	Dead	Live		
TC	10.0	20.0		
BC	10.0	0.0		
TC+BC	20.0	20.0		
Total	40.0	Spacing	42.0"	
Lumber	Duration	Factor	1.25	
Plate	Duration	Factor	1.25	
	Fb	Fc	Ft	Emin
TC	1.00	1.00	1.00	1.00
BC	1.00	1.00	1.00	1.00

Total Load Reactions (Lbs)			
Jt	Down	Uplift	Horiz-
A	1750		62 R

Jt	Brg Size	Required
A	149.6"	0"-to- 150"

```

Plus 21 Wind Load Case(s)
Plus 1 LL Load Case(s)
Plus 1 DL Load Case(s)

```

Membr	CSI	P	Lbs	Axl-CSI-Bnd
-----Top Chords-----				
A -G	0.22		76 C	0.00 0.22
G -B	0.20		124 T	0.00 0.20
B -H	0.20		124 T	0.00 0.20
H -C	0.22		76 C	0.00 0.22
-----Bottom Chords-----				
A -F	0.15		6 T	0.00 0.15

MiTek® Online Plus™ APPROX TRUSS WEIGHT 86.9 LBS

F	-D	0.24	0 T	0.00	0.24
D	-E	0.24	0 T	0.00	0.24
E	-C	0.15	6 T	0.00	0.15
-----Webs-----					
F	-G	0.06	388 C		
G	-D	0.00	52 T		
D	-B	0.06	362 C		
D	-H	0.00	52 T		
E	-H	0.06	388 C		

```

TL Defl   -0.02" in F -D L/999
LL Defl   -0.01" in F -D L/999
Shear // Grain in G -B 0.18

```

Plates for each ply each face.						
Plate - MT20 20 Ga, Gross Area						
Plate - MT2H 20 Ga, Gross Area						
Jt	Type	Plt Size	X	Y	JSI	
A	MT20	3.0x 3.0	Ctr	Ctr	0.57	
B	MT20	6.0x 6.0	Ctr	Ctr	0.43	
G	MT20	6.0x 6.0	Ctr	Ctr	0.45	
H	MT20	6.0x 6.0	Ctr	Ctr	0.43	
C	MT20	3.0x 3.0	Ctr	Ctr	0.57	
F	MT20	2.0x 4.0	Ctr	Ctr	0.33	
D	MT20	3.0x 6.0	Ctr	Ctr	0.28	
E	MT20	2.0x 4.0	Ctr	Ctr	0.33	

REVIEWED BY:
MiTek Industries, Inc.
6904 Parke East Blvd.
Tampa, FL 33610

REFER TO ONLINE PLUS GENERAL
NOTES AND SYMBOLS SHEET FOR
ADDITIONAL SPECIFICATIONS.

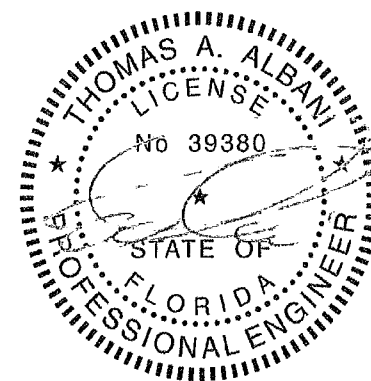
NOTES:
Trusses Manufactured by:
Mayo Truss Co. Inc.
Analysis Conforms To:

FBC2010
TPI 2007

OH Loading
Soffit psf 2.0

This truss has been designed
for 20.0 psf LL on the B.C.
in areas where a rectangle
3- 6- 0 tall by

2 - 0 - 0 wide
will fit between the B.C.
and any other member.
Design checked for 10 psf non-
concurrent LL on BC.
Wind Loads - ANSI / ASCE 7-10
Truss is designed as
Components and Claddings*
for Exterior zone location.
Wind Speed: 120 mph
Risk Category : II
Mean Roof Height: 15-0
Exposure Category: B
Building Type: Enclosed
TC Dead Load: 6.0 psf
BC Dead Load: 6.0 psf
Max comp. force 388 Lbs
Max tens. force 364 Lbs
Connector Plate Fabrication
Tolerance = 20%
This truss is designed for a
creep factor of 1.5 which
is used to calculate total
load deflection.

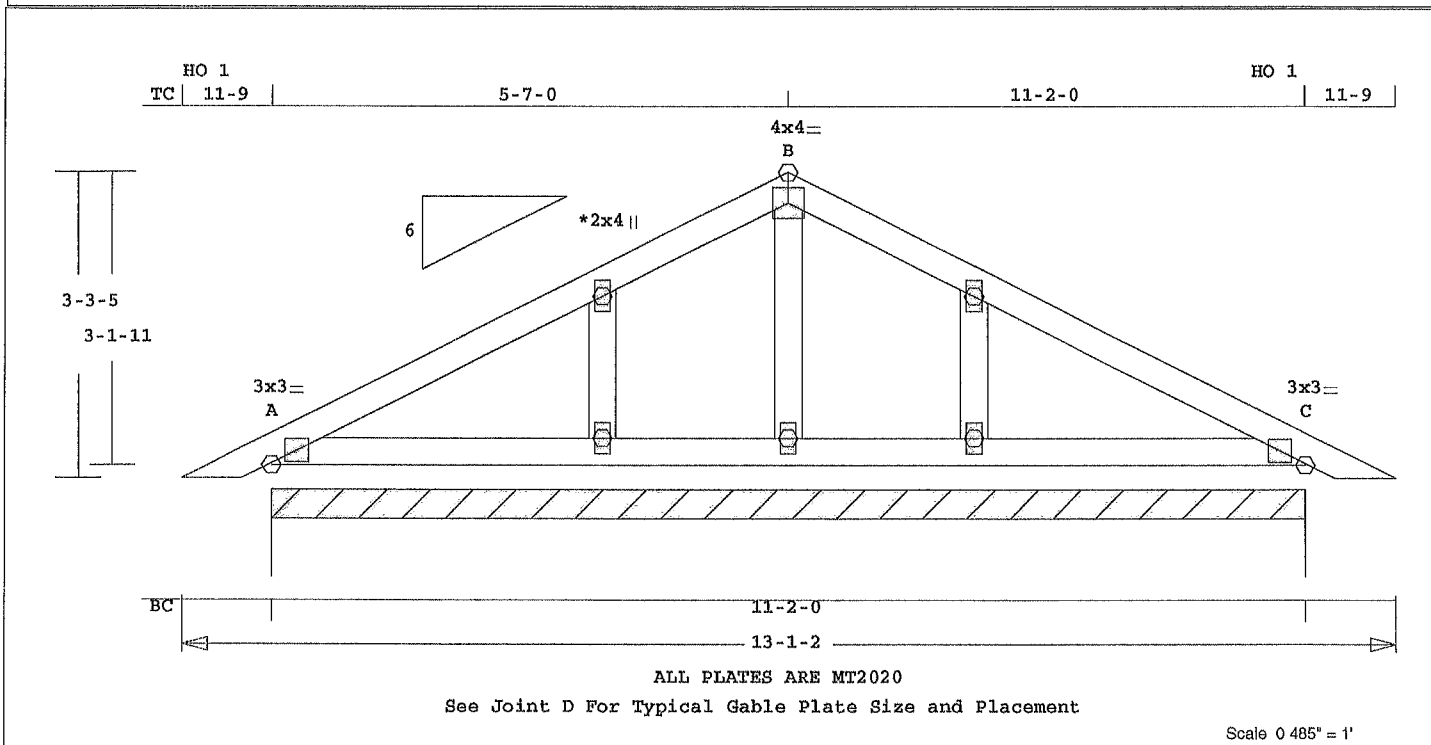


FL Cert. 6634

August 7, 2014

Job	Mark	Quan	Type	Span	P1-H1	Left OH	Right OH	Engineering
CASE	P2GE	1	TR	130102	6	11- 9	11- 9	T6460272

CASE



Online Plus -- Version 30.0.033
RUN DATE: 07-AUG-14

Southern Pine lumber design
values are those effective
06-01-13 by SPIB//ALSC UON
CSI -Size- ---Lumber---
TC 0.10 2x 4 SP-#2
BC 0.07 2x 4 SP-#2
GW 0.03 2x 4 SP-#2

Brace truss as follows:

O.C.	From	To
TC Cont.	0- 0- 0 13- 1- 2	
or 48.0"	0- 0- 0 13- 1- 2	
BC Cont.	0- 0- 0 13- 1- 2	
or 72.0"	0- 0- 0 13- 1- 2	

psf-Ld	Dead	Live
TC	10.0	20.0
BC	10.0	0.0
TC+BC	20.0	20.0
Total	40.0	24.0"
Lumber Duration Factor	1.25	
Plate Duration Factor	1.25	
Fb	Fc	Ft Emin
TC	1.15	1.10 1.10 1.10
BC	1.10	1.10 1.10 1.10

Total Load Reactions (Lbs)
Jt Down Uplift Horiz-
A 896 33 R

Jt Brg Size Required
A 134.0" 0"-to- 134"

Plus 21 Wind Load Case(s)
Plus 1 LL Load Case(s)
Plus 1 DL Load Case(s)

Membr	CSI	P	Lbs	Ax1-CSI-Bnd
-----Top Chords-----				
A -D	0.10	97 C	0.00	0.10
D -B	0.09	114 C	0.00	0.09
B -G	0.09	114 C	0.00	0.09
G -C	0.10	97 C	0.00	0.10
-----Bottom Chords-----				
A -E	0.07	10 T	0.00	0.07

MiTek® Online Plus™ APPROX TRUSS WEIGHT 59 5 LBS

E -F	0.06	0 T	0.00	0.06
F -H	0.06	0 T	0.00	0.06
H -C	0.07	10 T	0.00	0.07
-----Gable Webs-----				
E -D	0.03	188 C		
F -B	0.00	44 C		
H -G	0.03	188 C		
TL Defl	-0.01"	in H -C	L/999	
LL Defl	0.00"	in H -C	L/999	
Shear // Grain		in A -D	0.12	

Plates for each ply each face.
Plate - MT20 20 Ga, Gross Area
Plate - MT2H 20 Ga, Gross Area
Jt Type Plt Size X Y JSI
A MT20 3.0x 3.0 Ctr Ctr 0.57
D MT20 2.0x 4.0 Ctr Ctr 0.00
B MT20 4.0x 4.0 Ctr Ctr 0.43
G MT20 2.0x 4.0 Ctr Ctr 0.00
C MT20 3.0x 3.0 Ctr Ctr 0.57
E MT20 2.0x 4.0 Ctr Ctr 0.00
F MT20 2.0x 4.0 Ctr Ctr 0.00
H MT20 2.0x 4.0 Ctr Ctr 0.00

REVIEWED BY:
MiTek Industries, Inc.
6904 Parke East Blvd.
Tampa, FL 33610

REFER TO ONLINE PLUS GENERAL
NOTES AND SYMBOLS SHEET FOR
ADDITIONAL SPECIFICATIONS.

NOTES:

Trusses Manufactured by:
Mayo Truss Co. Inc.
Analysis Conforms To:
FBC2010
TPI 2007

OH Loading

Soffit psf 2.0

Design checked for 10 psf non-
concurrent LL on BC.

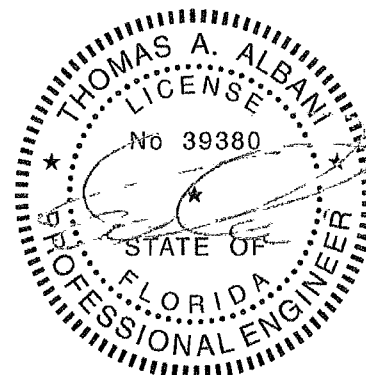
Truss designed for wind loads
in the plane of the truss
only. For studs exposed to
wind (normal to the face),

see Standard Industry Gable
End Details as applicable,
or consult qualified
Building Designer as per
ANSI/TPI 1.

Wind Loads - ANSI / ASCE 7-10
Truss is designed as

Components and Claddings*
for Exterior zone location.
Wind Speed: 120 mph
Risk Category : II
Mean Roof Height: 15-0
Exposure Category: B
Building Type: Enclosed
TC Dead Load: 6.0 psf
BC Dead Load: 6.0 psf
Max comp. force 188 Lbs
Max tens. force 170 Lbs
Connector Plate Fabrication
Tolerance = 20%

This truss is designed for a
creep factor of 1.5 which
is used to calculate total
load deflection.



FL Cert. 6634

August 7, 2014

ONLINE PLUS GENERAL NOTES & SYMBOLS

108

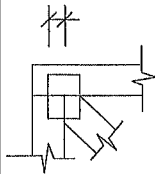


PLATE LOCATION

Center plates on joints unless otherwise noted in plate list or on drawing. Dimensions are given in inches (i.e. 1 1/2" or 1.5") or IN-16ths (i.e. 108)

FLOOR TRUSS SPLICE (3X2, 4X2, 6X2)



(W) = Wide Face Plate
(N) = Narrow Face Plate

LATERAL BRACING

Designates the location for continuous lateral bracing (CLB) for support of individual truss members only. CLBs must be properly anchored or restrained to prevent simultaneous buckling of adjacent truss members.

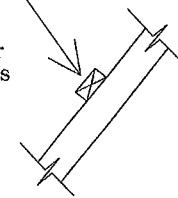
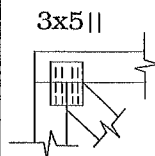


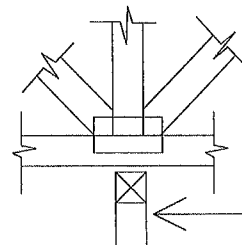
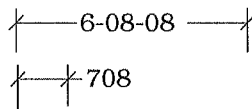
PLATE SIZE AND ORIENTATION



The first dimension is the width measured perpendicular to slots. The second dimension is the length measured parallel to slots. Plate orientation, shown next to plate size, indicates direction of slots in connector plates.

DIMENSIONS

All dimensions are shown in FT-IN-SX (i.e. 6'-8.5" or 6-08-08). Dimensions less than one foot are shown in IN-SX only (i.e. 708).



W = Actual Bearing Width (IN-SX)
R = Reaction (lbs.)
U = Uplift (lbs.)

BEARING

When truss is designed to bear on multiple supports, interior bearing locations should be marked on the truss. Interior support or temporary shoring must be in place before trusses are installed. If necessary, shim bearings to assure solid contact with truss.

Metal connector plates shall be applied on both faces of truss at each joint. Center the plates, unless indicated otherwise. No loose knots or wane in plate contact area. Splice only where shown. Overall spans assume 4" bearing at each end, unless indicated otherwise. Cutting and fabrication shall be performed using equipment which produces snug-fitting joints and plates. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication and the attached truss designs are not applicable for use with fire retardant lumber and some preservative treatments. Nails specified on Truss Design Drawings refer to common wire nails, except as noted. The attached design drawings were prepared in accordance with "National Design Specifications for Wood Construction" (AF & PA), "National Design Standard for Metal Plate Connected Wood Truss Construction" (ANSI/TPI 1), and HUD Design Criteria for Trussed Rafters.

Mitek Industries Inc. bears no responsibility for the erection of trusses, field bracing or permanent truss bracing. Refer to "Building Component Safety Information" (BCSI 1) as published by Truss Plate Institute, 218 North Lee Street, Suite 312, Alexandria, Virginia 22314. Persons erecting trusses are cautioned to seek professional advice concerning proper erection bracing to prevent toppling and "dominoing". Care should be taken to prevent damage during fabrication, storage, shipping and erection. Top and bottom chords shall be adequately braced in the absence of sheathing or rigid ceiling, respectively. It is the responsibility of others to ascertain that design loads utilized on these drawings meet or exceed the actual dead loads imposed by the structure and the live loads imposed by the local building code or historical climatic records. When truss hangers are specified on the Truss Design Drawing, they must be installed per manufacturer's details and specifications.

FURNISH A COPY OF THE ATTACHED TRUSS DESIGN DRAWINGS TO ERECTION CONTRACTOR. IT IS THE RESPONSIBILITY OF THE BUILDING DESIGNER TO REVIEW THESE DRAWINGS AND VERIFY THAT DATA, INCLUDING DIMENSIONS & LOADS, CONFORM TO ARCHITECTURAL PLAN / SPECS AND THE TRUSS PLACEMENT DIAGRAM FURNISHED BY THE TRUSS MANUFACTURER.



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