

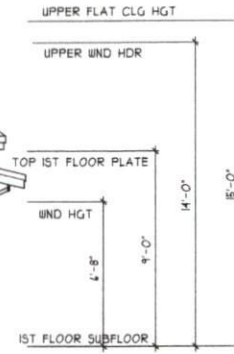
REAR ELEVATION

SCALE 1/4" = 1'-0"



FRONT ELEVATION

SCALE 1/4" = 1'-0"

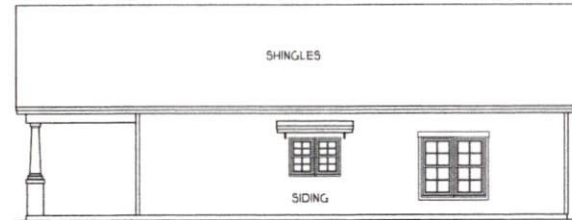


ATTIC VENTILATION:

THE NET FREE VENTILATING AREA SHALL BE NOT LESS THAN 1 TO 150 OF THE AREA OF THE SPACE VENTILATED EXCEPT THAT THE AREA MAY BE 1 TO 300 PROVIDED AT LEAST 50 PERCENT OF THE REQUIRED VENTILATING AREA IS PROVIDED BY VENTILATORS LOCATED IN THE UPPER PORTION OF THE SPACE TO BE VENTILATED AT LEAST 3 FEET ABOVE EAVE OR CORNICE VENTS WITH THE BALANCE OF THE REQUIRED VENTILATION TO BE PROVIDED BY EAVE OR CORNICE VENTS.
GROSS ATTIC AREA TO BE VENTILATED 1300 SQ.FT.
1300/150 = 8.64 SQ.FT. NET FREE AREA

ENERGY COMPLIANCE

ZONE 3 = MAX. GLAZING U-FACTOR 35
R-VALUE = CEILING R38, WALLS R15,
FLOORS R11 FOR JOHNSTON, WAYNE COUNTY
ZONE 4 = MAX. GLAZING U-FACTOR 35
R-VALUE = CEILING R38, WALLS R15,
FLOORS R11 FOR WAKE, ORANGE COUNTY



RIGHT ELEVATION

SCALE 1/8" = 1'-0"



LEFT ELEVATION

SCALE 1/4" = 1'-0"



THE MANCAVE
BRETT ANDERSON

HEATED FOOTAGE

930

SQUARE FOOTAGE:

FIRST FLOOR = 930
STORAGE AREA = 110
PORCH = 260

HEATHER HALL
105 HEATHERSTONE CT
BENSON NC 27504
(919) 207-4103



ANY DEVIATION OF THE SPECIFIED MEASUREMENTS OR DIMENSIONS VOID. H SQUARED HOME DESIGN, INC.'S LIABILITY.

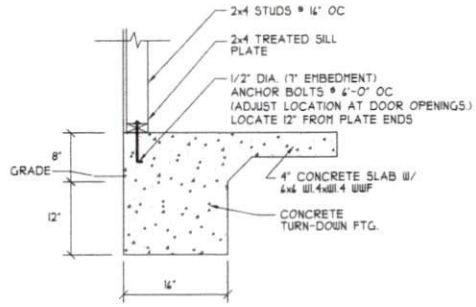
THIS PLAN HAS BEEN DRAWN IN ACCORDANCE WITH NORTH CAROLINA STATE RESIDENTIAL BUILDING CODES 2006 EDITION.

THIS PLAN IS TO ONLY BE BUILT BY THE ABOVE CITED BUILDER OR HOMEOWNER. NOT FOR MULTIPLE BUILDS UNLESS APPROVED BY H SQUARED.

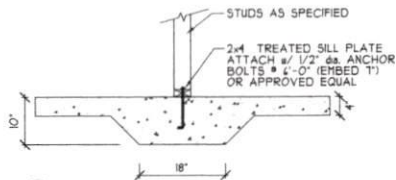
DATE: 08/05/11

OUTBLDG

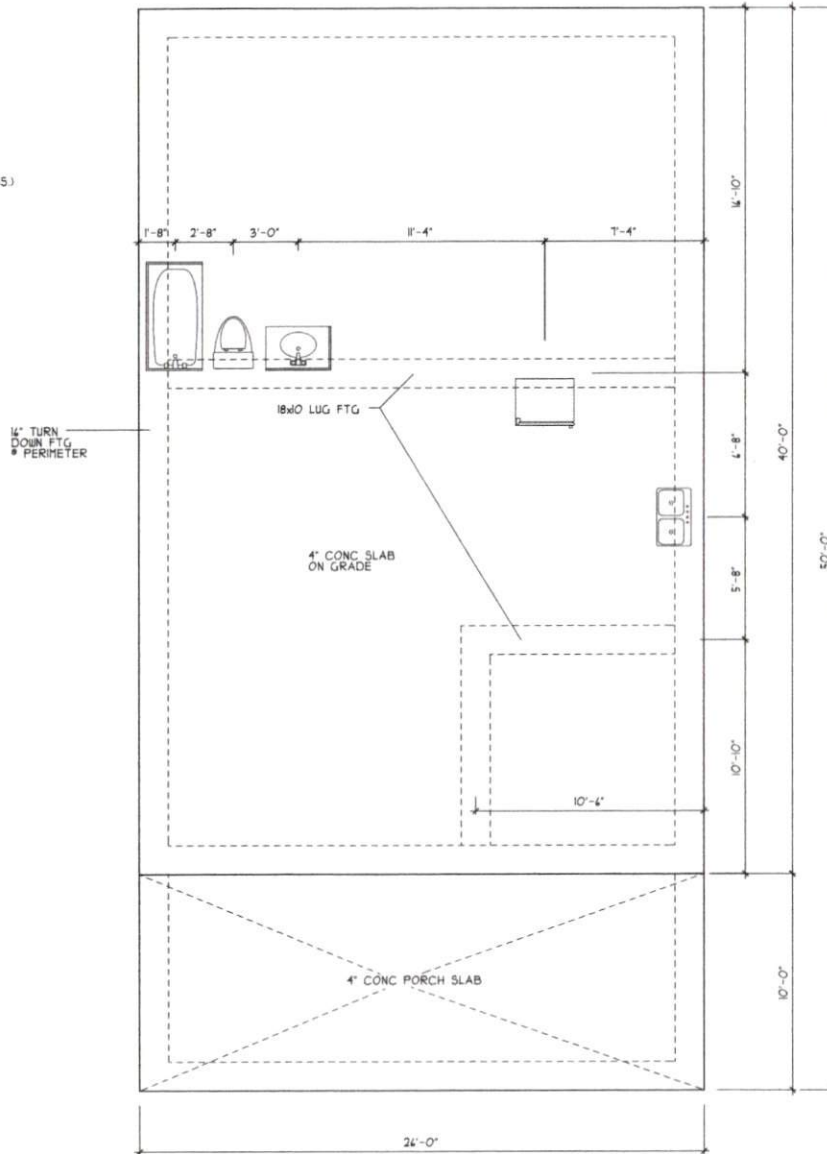
FILE: 040618



○ TURN DOWN SLAB FOOTING
 NTS



○ TYPICAL THICKENED SLAB
 NTS



DAMP PROOFING
 FOR DAMP PROOFING & WATER PROOFING REFER TO SECTION 405 & 406 IN 2018 EDITION NC RES. CODES

ANCHOR BOLTS
 ANCHOR BOLTS TO BE PLACED WITHIN 12" OF EVERY CORNER AND FROM EVERY SPLICE AND AT 4'-0" O.C. WITH 1" MIN. IN CONC.

FOUNDATION PLAN
 SCALE 1/4" = 1'-0"

H SQUARED HOME DESIGN, INC.

THE MANCAVE
BRETT ANDERSON

#930

HEATED FOOTAGE
 = 930
 SQUARE FOOTAGE
 FIRST FLOOR = 110
 STORAGE AREA = 280
 PORCH

HEATHER HALL
 105 HEATHERSTONE CT
 BENSON NC 27504
 1919 207-1403

ANY DEVIATION OF THE SPECIFIED MEASUREMENTS OR DIMENSIONS VOID. H SQUARED HOME DESIGN, INC. IS LIABLE.

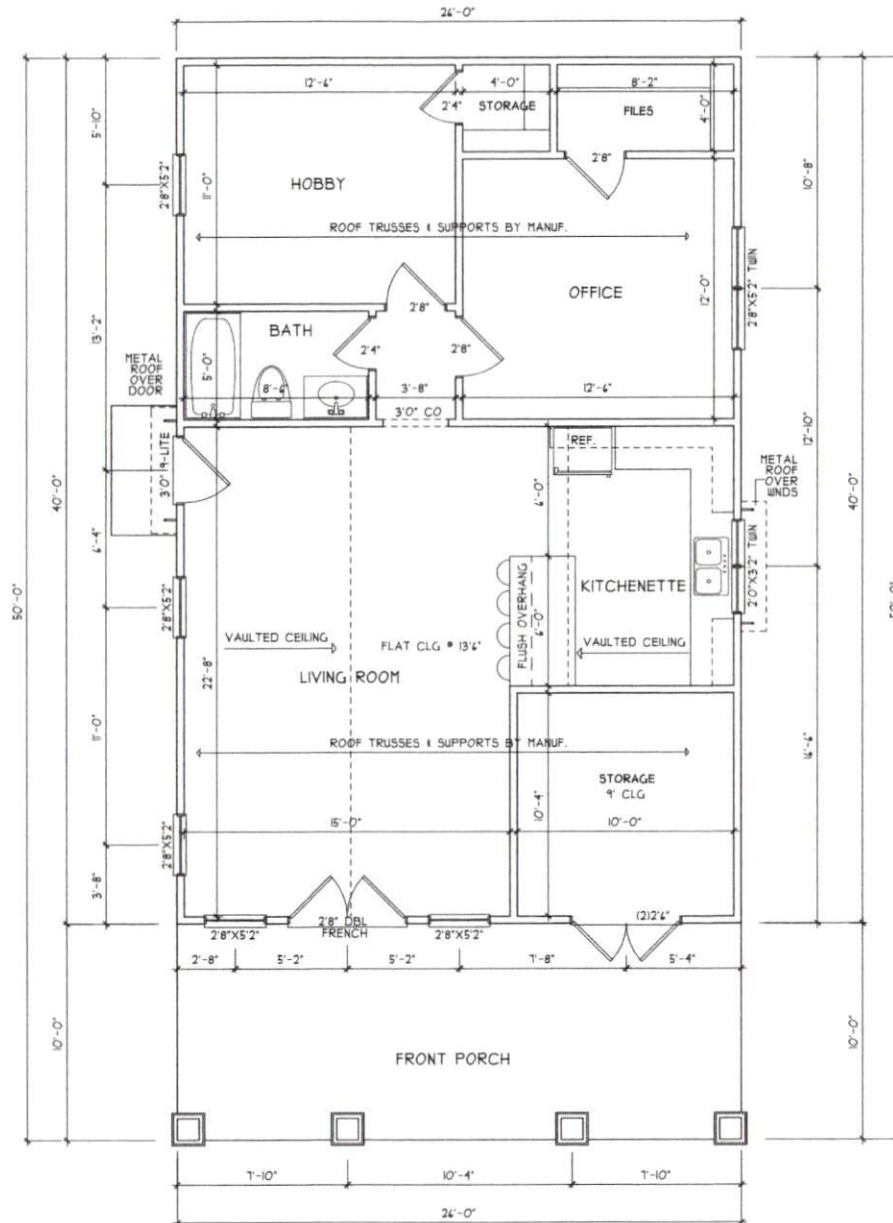
THIS PLAN HAS BEEN DRAWN IN ACCORDANCE WITH NORTH CAROLINA STATE RESIDENTIAL BUILDING CODES 2018 EDITION.

THIS PLAN IS TO ONLY BE BUILT BY THE ABOVE CITED BUILDER OR HOMEOWNER NOT FOR MULTIPLE BUILDS UNLESS APPROVED BY H SQUARED.

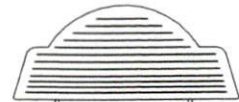
DATE: 08/05/19
 OUTBLDG
 FILE: 040618

HEADER SCHEDULE		
SPAN	SIZE	
LESS THAN 3'-0"	(2) 2 X 4	
3'-0" to 4'-0"	(2) 2 X 4	
4'-0" to 5'-0"	(2) 2 X 6	
5'-0" to 8'-0"	(2) 2 X 10	

ALL EXTERIOR OR LOAD BEARING HEADERS SHALL BE (2)2X10 UNLESS NOTED OTHERWISE



FIRST FLOOR PLAN
SCALE 1/4" = 1'-0"



THE MANCAVE
BRETT ANDERSON

HEATED FOOTAGE
930

SQUARE FOOTAGE:
FIRST FLOOR = 930
STORAGE AREA = 110
PORCH = 280

HEATHER HALL
165 HEATHERSTONE CT
BENSON NC 27504
(919) 207-1403

H SQUARED HOME DESIGN, INC.
H

ANY DEVIATION OF THE SPECIFIED MEASUREMENTS OR DIMENSIONS VOIDS H SQUARED HOME DESIGN, INC.'S LIABILITY.

THIS PLAN HAS BEEN DRAWN IN ACCORDANCE WITH NORTH CAROLINA STATE RESIDENTIAL BUILDING CODES 2006 EDITION.

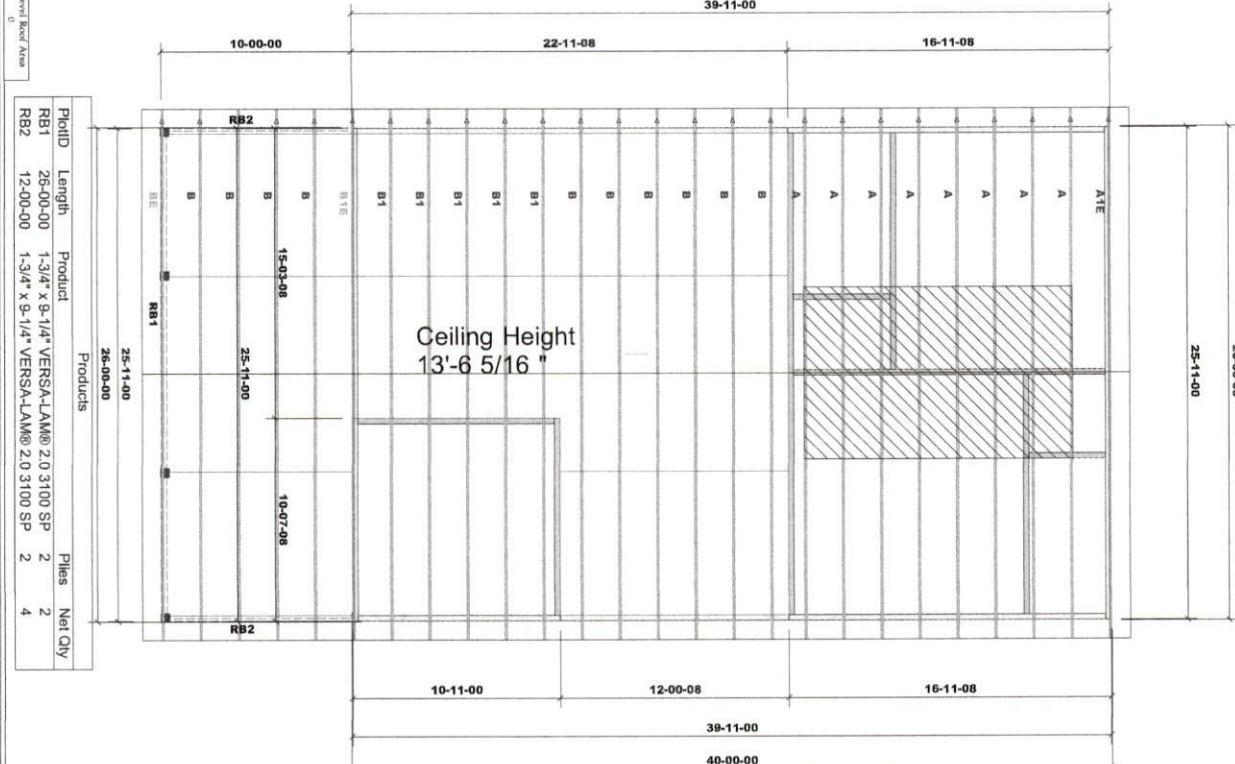
THIS PLAN IS TO ONLY BE BUILT BY THE ABOVE CITED BUILDER OR HOMEOWNER NOT FOR MULTIPLE BUILDS UNLESS APPROVED BY H SQUARED.

DATE: 08/05/19

OUTBLDG

FILE: 040618

THIS LAYOUT IS INTENDED FOR THE PURPOSE OF TRUSS LOCATION AND PLACEMENT ONLY. REFER TO THE BUILDING PLANS FOR ACTUAL BUILDING CONSTRUCTION.



Product	Length	Product	Piles	Net Qty
RB1	26-00-00	1-3/4" x 9-1/4" VERSA-LAM® 2.0 3100 SP	2	2
RB2	12-00-00	1-3/4" x 9-1/4" VERSA-LAM® 2.0 3100 SP	2	4



GENERAL NOTES:

- DO NOT CUT OR MODIFY TRUSSES
- TRUSSES ARE SPACED 24" ON CENTER UNLESS OTHERWISE NOTED
- REFER TO THE INDIVIDUAL TRUSS DESIGN DRAWINGS FOR THE LOCATION OF LATERAL BRACING AND MULTI-PLY CONNECTION REQUIREMENTS.
- PER ANSI TP1 1-2002 THE TRUSS ENGINEER IS RESPONSIBLE FOR TRUSS TO TRUSS CONNECTIONS AND TRUSS PLY TO PLY CONNECTIONS. THIS TRUSS PLACEMENT PLAN RECOMMENDS TRUSS TO BEARING CONNECTIONS AND TRUSS TO BEAM CONNECTIONS WHICH SHALL BE REVIEWED BY THE BUILDING DESIGNER. IT IS THE RESPONSIBILITY OF THE BUILDING DESIGNER TO RESOLVE ALL ROOF FORCES ADEQUATELY TO THE FOUNDATION.

PROJECT: Brett Anderson Mancave

CUSTOMER: 2383-Dunn

MODEL: Mancave

QUOTE #: 1900052

PRINT DATE: 7/30/2019

DRAWN BY: Rodney Evans

SCALE: N.T.S

TOP LIVE LOAD: 20.0 lb/ft²

TOP DEAD LOAD: 10.0 lb/ft²

BOTTOM DEAD LOAD: 10.0 lb/ft²

WIND SPEED: 130 mph

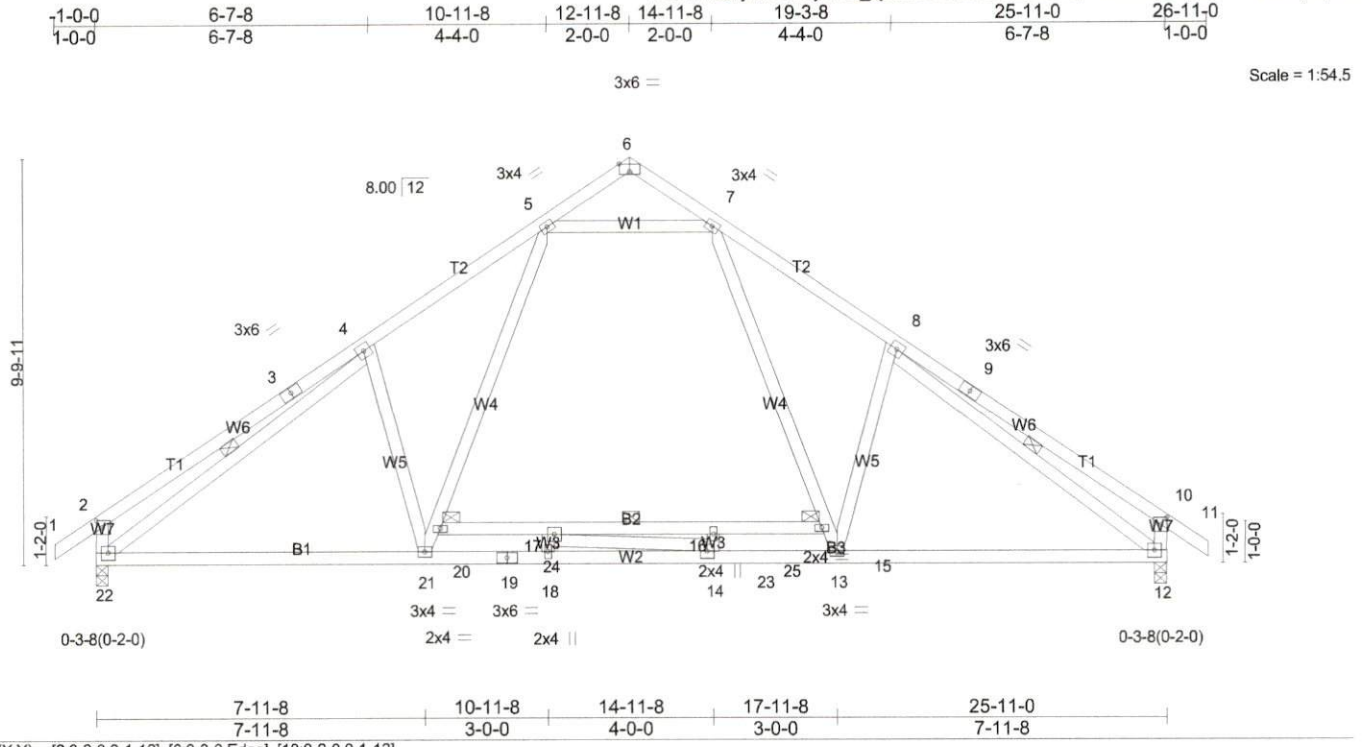
84 LUMBER COMPONENTS

DEDICATED TO QUALITY AND EXCELLENCE
200 EMMETT ROAD
DUNN, NORTH CAROLINA 28344
PHONE: 910.892.9789

Job 1900052-1900052AA	Truss	Truss Type ROOF TRUSS	Qty 8	Ply 1	Brett Anderson Mancave
---------------------------------	-------	---------------------------------	-----------------	-----------------	-------------------------------

84 Components, Dunn, NC 28334

Job Reference (optional)
8.300 s Jun 26 2019 MiTek Industries, Inc. Tue Jul 30 16:55:04 2019 Page 1
ID: 8n1Mz0njbAaon55jR1ed_zysr3e-7xMKFs?QEaVshQIN1APP0qtKffqCrs?MT3NaLZysqRL



Scale = 1:54.5

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

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.65	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.88	Vert(LL) -0.51 14-18 >602 240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.52	Vert(CT) -0.78 14-18 >396 180		
BCDL 10.0	Rep Stress Incr YES	Matrix-MS	Horz(CT) 0.04 12 n/a n/a		
	Code IRC2015/TPI2014			Weight: 182 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP DSS *Except*
B2: 2x4 SP No.1
WEBS 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-5-12 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. Except:
6-0-0 oc bracing: 15-20
WEBS 1 Row at midpt 4-22, 8-12

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

REACTIONS. (lb/size) 22=1189/0-3-8 (min. 0-2-0), 12=1189/0-3-8 (min. 0-2-0)

Max Horz 22=-208(LC 10)
Max Uplift 22=-96(LC 12), 12=-96(LC 12)
Max Grav 22=1279(LC 18), 12=1281(LC 19)

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

TOP CHORD 2-3=-423/214, 3-4=-373/235, 4-5=-1568/237, 7-8=-1571/237, 8-9=-373/235, 9-10=-424/214,
2-22=-430/245, 10-12=-430/245
BOT CHORD 21-22=-3/1386, 19-21=0/1181, 18-19=0/1181, 14-18=0/1181, 14-23=0/1074, 13-23=0/1074,
12-13=-4/1269
WEBS 7-15=-35/736, 13-15=-68/585, 8-13=-252/220, 20-21=-68/587, 5-20=-35/733, 4-21=-253/220,
4-22=-1427/0, 8-12=-1429/0, 5-7=-954/229

JOINT STRESS INDEX

2 = 0.86, 3 = 0.28, 4 = 0.79, 5 = 0.63, 6 = 0.13, 7 = 0.63, 8 = 0.79, 9 = 0.28, 10 = 0.86, 12 = 0.62, 13 = 0.43, 14 = 0.28, 15 = 0.27, 16 = 0.27, 17 = 0.28, 18 = 0.27, 19 = 0.71, 20 = 0.27, 21 = 0.43 and 22 = 0.62

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=30ft; B=45ft; L=45ft; eave=6ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- All plates are 4x4 MT20 unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 22 and 12. This connection is for uplift only and does not consider lateral forces.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- ATTIC SPACE SHOWN IS DESIGNED AS UNINHABITABLE.

LOAD CASE(S) Standard

84 Components, Dunn, NC 28334

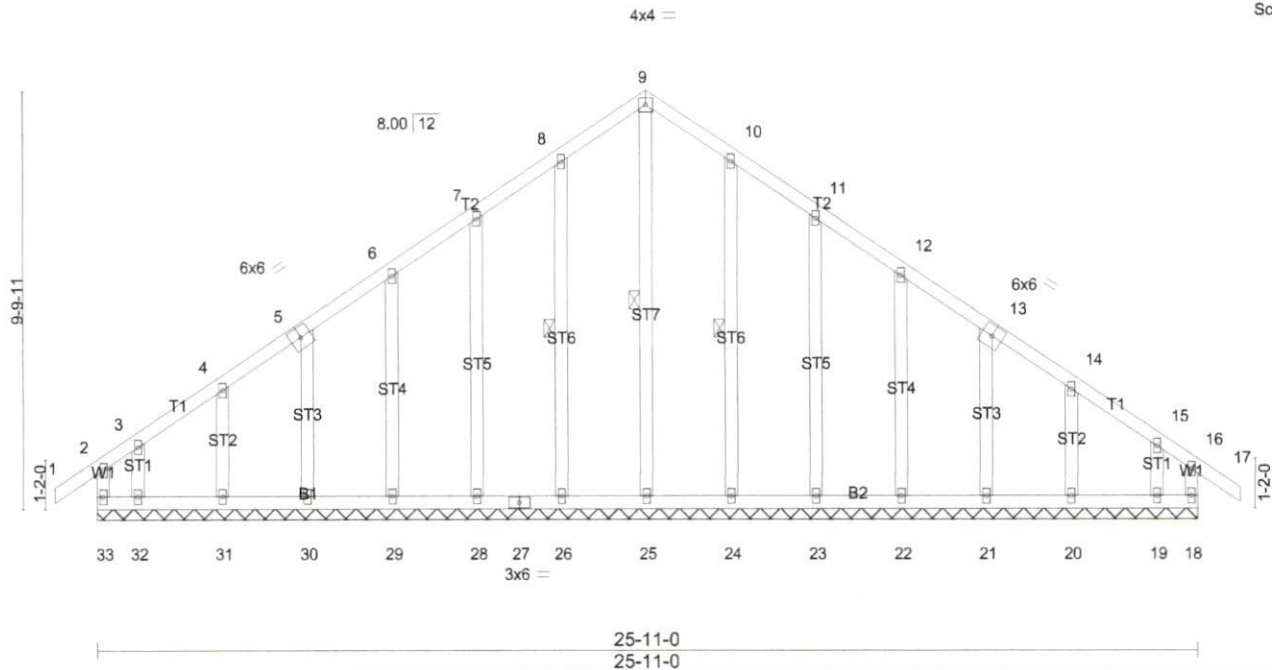
Job Reference (optional)

8.300 s Jun 26 2019 MiTek Industries, Inc. Tue Jul 30 16:55:06 2019 Page 1

ID:8n1Mz0njbAaon55jR1ed_zysr3e-4KU4gY0hmBlawkum8Brt5FyoUSixJtkfwNsgNSysqRJ

-1-0-0 1-0-0	12-11-8 12-11-8	25-11-0 12-11-8	26-11-0 1-0-0
-----------------	--------------------	--------------------	------------------

Scale = 1:53.0



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.18	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.09	Vert(LL) -0.00 17 n/r 120		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.12	Vert(CT) -0.01 17 n/r 90		
BCDL 10.0	Rep Stress Incr YES	Matrix-R	Horz(CT) -0.00 18 n/a n/a		
	Code IRC2015/TPI2014			Weight: 187 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD
 BOT CHORD
 WEBS

Structural wood sheathing directly applied or 6-0-0 oc purfins, except end verticals.
 Rigid ceiling directly applied or 6-0-0 oc bracing.
 1 Row at midpt 9-25, 8-26, 10-24

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

REACTIONS.

All bearings 25-11-0.
 (lb) - Max Horz 33=208(LC 11)
 Max Uplift All uplift 100 lb or less at joint(s) 26, 28, 29, 30, 31, 24, 23, 22, 21, 20, 19 except 33=-163(LC 10), 18=-109(LC 11), 32=-118(LC 11)
 Max Grav All reactions 250 lb or less at joint(s) 33, 18, 26, 28, 29, 30, 31, 32, 24, 23, 22, 21, 20, 19 except 25=259(LC 12)

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

TOP CHORD 8-9=-236/292, 9-10=-236/292
 WEBS 9-25=-257/145

JOINT STRESS INDEX

2 = 0.55, 3 = 0.27, 4 = 0.27, 5 = 0.12, 6 = 0.27, 7 = 0.27, 8 = 0.27, 9 = 0.22, 10 = 0.27, 11 = 0.27, 12 = 0.27, 13 = 0.12, 14 = 0.27, 15 = 0.27, 16 = 0.55, 18 = 0.63, 19 = 0.27, 20 = 0.27, 21 = 0.27, 22 = 0.27, 23 = 0.27, 24 = 0.27, 25 = 0.27, 26 = 0.27, 27 = 0.12, 28 = 0.27, 29 = 0.27, 30 = 0.27, 31 = 0.27, 32 = 0.27 and 33 = 0.63

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCCL=6.0psf; BCCL=6.0psf; h=30ft; B=45ft; L=45ft; eave=2ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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) All plates are 2x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 7) Gable studs spaced at 2-0-0 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 10) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 33, 18, 26, 28, 29, 30, 31, 32, 24, 23, 22, 21, 20, and 19. This connection is for uplift only and does not consider lateral forces.
- 11) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

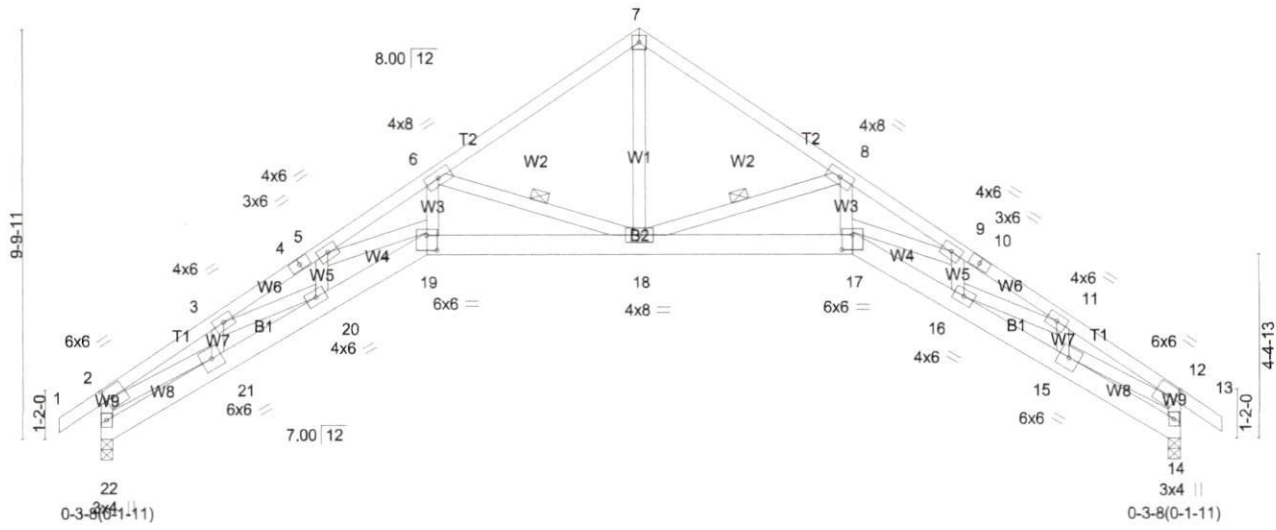
LOAD CASE(S) Standard

84 Components, Dunn, NC 28334

-1-0-0	2-9-11	5-3-14	7-10-1	12-11-8	18-0-15	20-7-2	23-1-5	25-11-0	26-11-0
1-0-0	2-9-11	2-6-3	2-6-3	5-1-7	5-1-7	2-6-3	2-6-3	2-9-11	1-0-0

4x4 =

Scale = 1:54.0



2-9-11	5-3-14	7-10-1	12-11-8	18-0-15	20-7-2	23-1-5	25-11-0
2-9-11	2-6-3	2-6-3	5-1-7	5-1-7	2-6-3	2-6-3	2-9-11

Plate Offsets (X,Y) - [2:0-2-3,0-3-0], [12:0-2-3,0-3-0], [17:0-3-0,0-4-4], [19:0-3-0,0-4-4]

LOADING (psf)	SPACING-	CSI	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.42	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.74	Vert(LL) -0.28 18-19 >999 240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.82	Vert(CT) -0.57 18-19 >544 180		
BCDL 10.0	Rep Stress Incr YES	Matrix-MS	Horz(CT) 0.71 14 n/a n/a		
	Code IRC2015/TPI2014			Weight: 174 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-8-10 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 8-18, 6-18

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

REACTIONS. (lb/size) 22=1094/0-3-8 (min. 0-1-11), 14=1094/0-3-8 (min. 0-1-11)
Max Horz 22=-208(LC 10)
Max Uplift 22=-153(LC 12), 14=-153(LC 12)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2547/351, 3-4=-3700/437, 4-5=-3638/445, 5-6=-4098/419, 6-7=-1700/226, 7-8=-1700/227, 8-9=-4098/421, 9-10=-3639/449, 10-11=-3700/441, 11-12=-2547/355, 2-22=-1063/222, 12-14=-1063/211
BOT CHORD 21-22=-191/330, 20-21=-240/2381, 19-20=-281/3559, 18-19=-164/3310, 17-18=-166/3242, 16-17=-284/3438, 15-16=-246/2225
WEBS 7-18=-117/1487, 8-18=-1998/282, 8-17=-89/1753, 9-17=0/434, 9-16=-337/34, 11-16=-45/1155, 11-15=-584/110, 6-18=-2078/281, 6-19=-87/1811, 5-19=0/415, 5-20=-337/36, 3-20=-48/1155, 3-21=-584/106, 2-21=-219/1991, 12-15=-225/1991

JOINT STRESS INDEX
2 = 0.75, 3 = 0.36, 4 = 0.43, 5 = 0.25, 6 = 0.65, 7 = 0.69, 8 = 0.65, 9 = 0.25, 10 = 0.43, 11 = 0.36, 12 = 0.75, 14 = 0.54, 15 = 0.60, 16 = 0.35, 17 = 0.77, 18 = 0.52, 19 = 0.77, 20 = 0.35, 21 = 0.60 and 22 = 0.54

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; B=45ft; L=45ft; eave=6ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 5) Bearing at joint(s) 22, 14 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - 6) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 22 and 14. This connection is for uplift only and does not consider lateral forces.
 - 7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job 1900052-1900052AB1	Truss Roof Special	Truss Type Roof Special	Qty 5	Ply 1	Brett Anderson Mancave
----------------------------------	------------------------------	-----------------------------------	-----------------	-----------------	-------------------------------

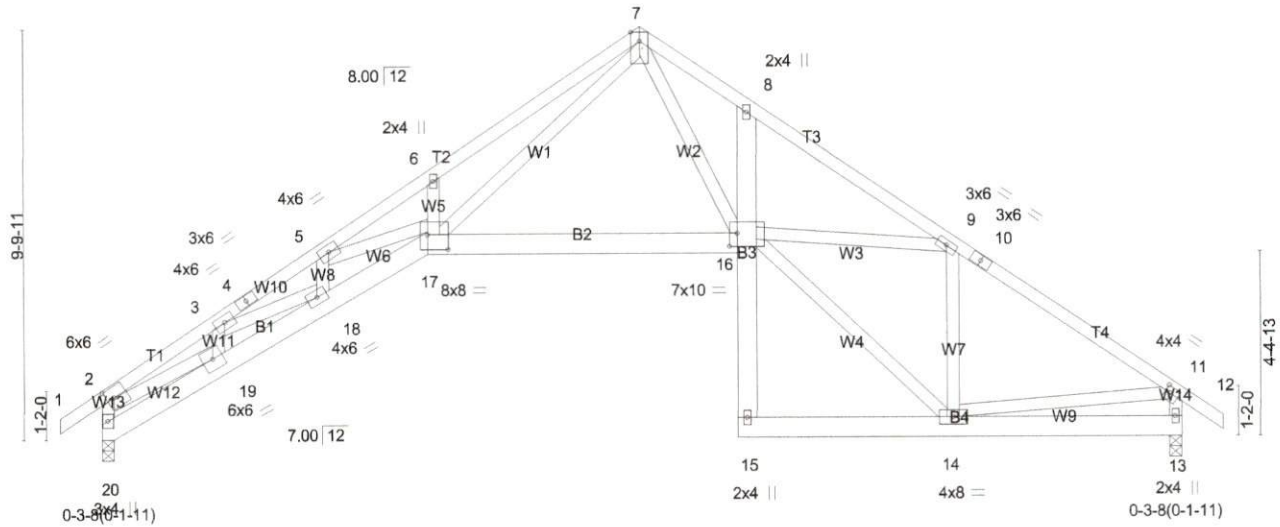
84 Components, Dunn, NC 28334

Job Reference (optional)
8.300 s Jun 26 2019 MiTek Industries, Inc. Tue Jul 30 16:55:11 2019 Page 1
ID:8n1Mz0njbAaon55jR1ed_zysr3e-QHHZjG4pbjOt0Vnjx812olFVPTF8_z?O4eaR2fysqRE

1-0-0	2-9-11	5-3-14	7-10-1	12-11-8	15-3-8	20-5-8	25-11-0	26-11-0
1-0-0	2-9-11	2-6-3	2-6-3	5-1-7	2-4-0	5-2-0	5-5-8	1-0-0

5x9 ||

Scale = 1:54.0



2-9-11	5-3-14	7-10-1	15-3-8	20-5-8	25-11-0
2-9-11	2-6-3	2-6-3	7-5-7	5-2-0	5-5-8

Plate Offsets (X,Y) - [2:0-2-3,0-3-0], [11:0-1-4,0-1-12], [16:0-2-4,0-3-12], [17:0-6-0,0-4-4]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.75	Vert(LL)	-0.28 16-17	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.73	Vert(CT)	-0.59 16-17	>525	180		
BCLL 10.0 *	Rep Stress Incr	YES	WB 0.82	Horz(CT)	0.54 13	n/a	n/a		
BCDL 0.0	Code IRC2015/TPI2014		Matrix-MS						

Weight: 198 lb FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2 *Except*
T2: 2x4 SP No.1
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3 *Except*
W1: 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

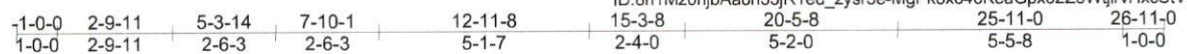
REACTIONS. (lb/size) 20=1094/0-3-8 (min. 0-1-11), 13=1094/0-3-8 (min. 0-1-11)
Max Horz 20=-208(LC 10)
Max Uplift 20=-153(LC 12), 13=-153(LC 12)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2541/348, 3-4=-3718/441, 4-5=-3689/453, 5-6=-4077/395, 6-7=-4118/550, 7-8=-2318/343, 8-9=-2375/275, 9-10=-1138/230, 10-11=-1297/211, 2-20=-1064/221, 11-13=-1029/235
BOT CHORD 19-20=-191/332, 18-19=-238/2375, 17-18=-283/3582, 16-17=0/1298
WEBS 3-19=-583/109, 3-18=-57/1181, 5-18=-348/23, 5-17=0/366, 6-17=-254/197, 7-17=-361/3013, 7-16=-151/1359, 14-16=-111/1293, 9-16=0/925, 9-14=-916/157, 2-19=-217/1982, 11-14=-24/823

JOINT STRESS INDEX
2 = 0.75, 3 = 0.37, 4 = 0.44, 5 = 0.25, 6 = 0.27, 7 = 0.90, 8 = 0.64, 9 = 0.38, 10 = 0.17, 11 = 0.75, 13 = 0.95, 14 = 0.72, 15 = 0.45, 16 = 0.79, 17 = 0.78, 18 = 0.35, 19 = 0.60 and 20 = 0.54

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=30ft; B=45ft; L=45ft; eave=6ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Bearing at joint(s) 20 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 20 and 13. This connection is for uplift only and does not consider lateral forces.
 - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



Scale = 1:54.7

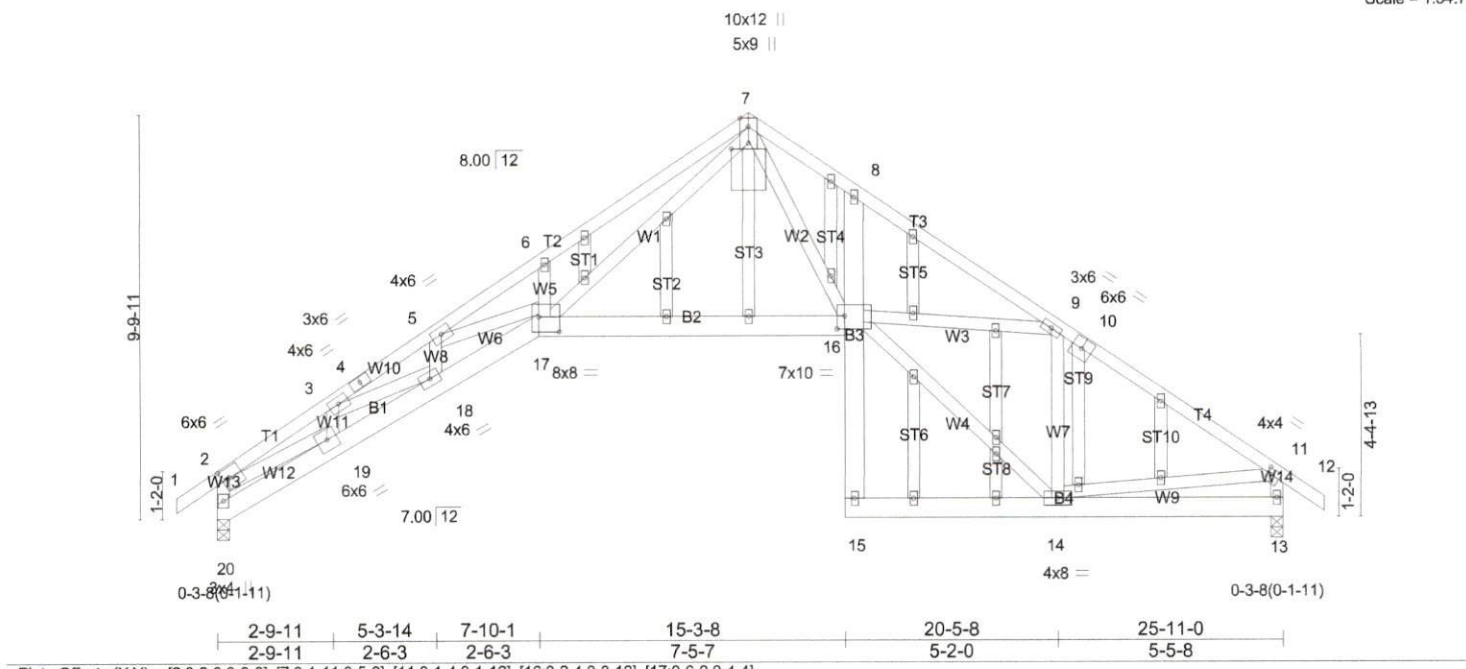


Plate Offsets (X,Y) =	[2:0-2-3,0-3-0], [7:0-1-11,0-5-0], [11:0-1-4,0-1-12], [16:0-2-4,0-3-12], [17:0-6-0,0-4-4]				
LOADING (psf)	SPACING-	CSI	DEFL	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.75	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.73	Vert(LL) -0.28 16-17 >999 240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.82	Vert(CT) -0.59 16-17 >525 180		
BCDL 10.0	Rep Stress Incr YES	Matrix-MS	Horz(CT) 0.54 13 n/a n/a		
	Code IRC2015/TPI2014			Weight: 235 lb	FT = 20%

LUMBER-
 TOP CHORD 2x4 SP No.2 *Except*
 T2: 2x4 SP No.1
 BOT CHORD 2x6 SP No.2
 WEBS 2x4 SP No.3 *Except*
 W1: 2x4 SP No.2
 OTHERS 2x4 SP No.3

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

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

REACTIONS. (lb/size) 20=1094/0-3-8 (min. 0-1-11), 13=1094/0-3-8 (min. 0-1-11)
 Max Horz 20=-208(LC 10)
 Max Uplift 20=-153(LC 12), 13=-153(LC 12)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-2541/348, 3-4=-3718/441, 4-5=-3689/453, 5-6=-4077/395, 6-7=-4118/550, 7-8=-2318/343,
 8-9=-2375/275, 9-10=-1138/230, 10-11=-1297/211, 2-20=-1064/221, 11-13=-1029/235
 BOT CHORD 19-20=-191/332, 18-19=-238/2375, 17-18=-283/3582, 16-17=0/1298
 WEBS 3-19=-583/109, 3-18=-57/1181, 5-18=-348/23, 5-17=0/366, 6-17=-254/197, 7-17=-361/3013,
 7-16=-151/1359, 14-16=-111/1293, 9-16=0/925, 9-14=-916/157, 2-19=-217/1982, 11-14=-24/823

JOINT STRESS INDEX
 2 = 0.75, 3 = 0.37, 4 = 0.44, 5 = 0.25, 6 = 0.27, 7 = 0.90, 7 = 0.29, 8 = 0.64, 9 = 0.38, 10 = 0.16, 11 = 0.75, 13 = 0.95, 14 = 0.72, 15 = 0.45, 16 = 0.79, 17 = 0.78, 18 = 0.35, 19 = 0.60, 20 = 0.54, 21 = 0.27,
 22 = 0.27, 23 = 0.27, 24 = 0.27, 25 = 0.27, 26 = 0.28, 27 = 0.27, 28 = 0.27, 29 = 0.27, 30 = 0.27, 31 = 0.27, 32 = 0.27, 33 = 0.27, 34 = 0.27, 35 = 0.27, 36 = 0.27 and 37 = 0.27

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; B=45ft; L=45ft; eave=6ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2) zone; C-C for members and forces & MWFRS 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) All plates are 2x4 MT20 unless otherwise indicated.
 - 5) Gable studs spaced at 2-0-0 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 live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 8) Bearing at joint(s) 20 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - 9) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 20 and 13. This connection is for uplift only and does not consider lateral forces.
 - 10) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

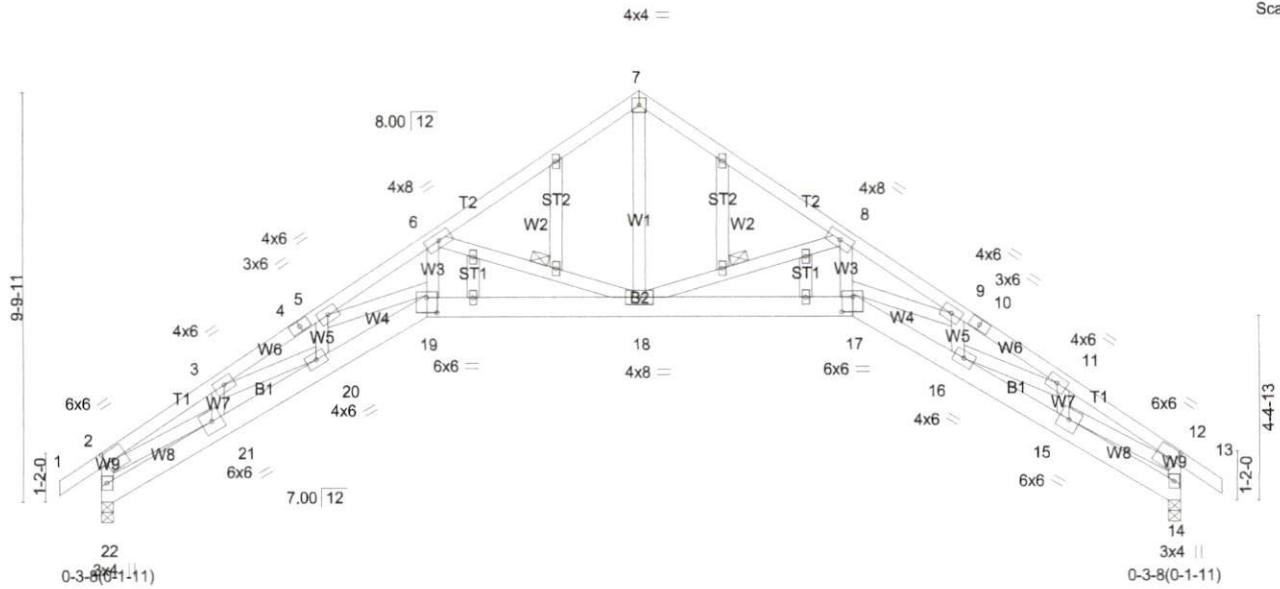
Job 1900052-1900052ABE	Truss GABLE	Truss Type GABLE	Qty 1	Ply 1	Brett Anderson Mancave
----------------------------------	-----------------------	----------------------------	-----------------	-----------------	-------------------------------

84 Components, Dunn, NC 28334

Job Reference (optional)
8.300 s Jun 26 2019 MiTek Industries, Inc. Tue Jul 30 16:55:16 2019 Page 1
ID:8n1Mz0njbAaon55jR1ed_zysr3e-nF4smz8yPF097GfhkhdVMNRIUzCfEB7DwICjysqR9

1-0-0	2-9-11	5-3-14	7-10-1	12-11-8	18-0-15	20-7-2	23-1-5	25-11-0	26-11-0
1-0-0	2-9-11	2-6-3	2-6-3	5-1-7	5-1-7	2-6-3	2-6-3	2-9-11	1-0-0

Scale = 1:54.0



2-9-11	5-3-14	7-10-1	12-11-8	18-0-15	20-7-2	23-1-5	25-11-0
2-9-11	2-6-3	2-6-3	5-1-7	5-1-7	2-6-3	2-6-3	2-9-11

Plate Offsets (X,Y) - [2:0-2-3,0-3-0], [12:0-2-3,0-3-0], [17:0-3-0,0-4-4], [19:0-3-0,0-4-4]

LOADING (psf)	SPACING-	CSI	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.42	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.74	Vert(LL) -0.28 18-19 >999 240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.82	Vert(CT) -0.57 18-19 >544 180		
BCDL 10.0	Rep Stress Incr YES	Matrix-MS	Horz(CT) 0.71 14 n/a n/a		
	Code IRC2015/TPI2014			Weight: 185 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-8-10 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 8-18, 6-18

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

REACTIONS. (lb/size) 22=1094/0-3-8 (min. 0-1-11), 14=1094/0-3-8 (min. 0-1-11)
Max Horz 22=-208(LC 10)
Max Uplift 22=-153(LC 12), 14=-153(LC 12)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2547/351, 3-4=-3700/437, 4-5=-3638/445, 5-6=-4098/419, 6-7=-1700/226, 7-8=-1700/227, 8-9=-4098/421, 9-10=-3639/449, 10-11=-3700/441, 11-12=-2547/355, 2-22=-1063/222, 12-14=-1063/211
BOT CHORD 21-22=-191/330, 20-21=-240/2381, 19-20=-281/3559, 18-19=-164/3310, 17-18=-166/3242, 16-17=-284/3438, 15-16=-246/2225
WEBS 7-18=-117/1487, 8-18=-1998/282, 8-17=-89/1753, 9-17=0/434, 9-16=-337/34, 11-16=-45/1155, 11-15=-584/110, 6-18=-2078/281, 6-19=-87/1811, 5-19=0/415, 5-20=-337/36, 3-20=-48/1155, 3-21=-584/106, 2-21=-219/1991, 12-15=-225/1991

JOINT STRESS INDEX

2 = 0.75, 3 = 0.36, 4 = 0.43, 5 = 0.25, 6 = 0.65, 7 = 0.69, 8 = 0.65, 9 = 0.25, 10 = 0.43, 11 = 0.36, 12 = 0.75, 14 = 0.54, 15 = 0.60, 16 = 0.35, 17 = 0.77, 18 = 0.52, 19 = 0.77, 20 = 0.35, 21 = 0.60, 22 = 0.54, 23 = 0.27, 24 = 0.27, 25 = 0.27, 26 = 0.27, 27 = 0.27, 28 = 0.27, 29 = 0.27 and 30 = 0.27

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=30ft; B=45ft; L=45ft; eave=6ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Bearing at joint(s) 22, 14 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 22 and 14. This connection is for uplift only and does not consider lateral forces.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

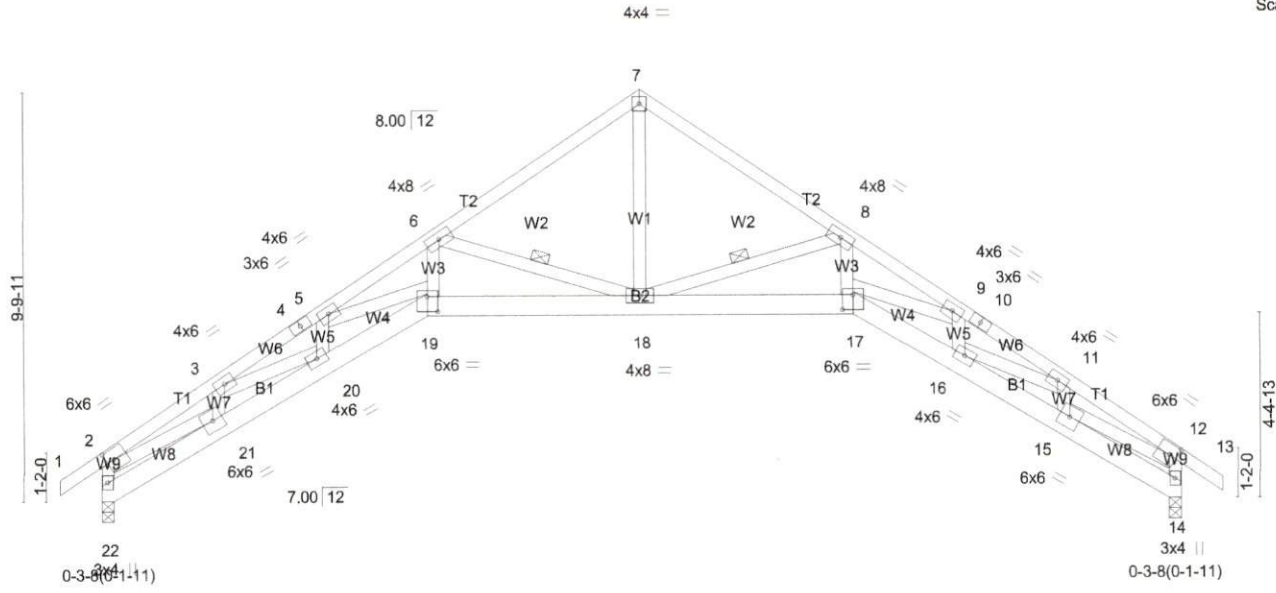
Job 1900052-1900052AB	Truss Roof Special	Truss Type Roof Special	Qty 10	Ply 1	Brett Anderson Mancave
---------------------------------	-----------------------	----------------------------	-----------	----------	------------------------

84 Components, Dunn, NC 28334

Job Reference (optional)
8.300 s Jun 26 2019 MiTek Industries, Inc. Tue Jul 30 16:55:09 2019 Page 1
ID: 8n1Mz0nbAaon55jR1ed_zysr3e-Uv9Dla3Z3689nBdLpj?ajtaF3gaZW3S5cK5K_nysqRG

1-0-0	2-9-11	5-3-14	7-10-1	12-11-8	18-0-15	20-7-2	23-1-5	25-11-0	26-11-0
1-0-0	2-9-11	2-6-3	2-6-3	5-1-7	5-1-7	2-6-3	2-6-3	2-9-11	1-0-0

Scale = 1:54.0



2-9-11	5-3-14	7-10-1	12-11-8	18-0-15	20-7-2	23-1-5	25-11-0
2-9-11	2-6-3	2-6-3	5-1-7	5-1-7	2-6-3	2-6-3	2-9-11

Plate Offsets (X,Y) - [2:0-2-3,0-3-0], [12:0-2-3,0-3-0], [17:0-3-0,0-4-4], [19:0-3-0,0-4-4]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.42	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.74	Vert(LL) -0.28 18-19 >999 240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.82	Vert(CT) -0.57 18-19 >544 180		
BCDL 10.0	Rep Stress Incr YES	Matrix-MS	Horz(CT) 0.71 14 n/a n/a		
	Code IRC2015/TPI2014			Weight: 174 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-8-10 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 8-18, 6-18

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

REACTIONS. (lb/size) 22=1094/0-3-8 (min. 0-1-11), 14=1094/0-3-8 (min. 0-1-11)
Max Horz 22=-208(LC 10)
Max Uplift 22=-153(LC 12), 14=-153(LC 12)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2547/351, 3-4=-3700/437, 4-5=-3638/445, 5-6=-4098/419, 6-7=-1700/226, 7-8=-1700/227, 8-9=-4098/421, 9-10=-3639/449, 10-11=-3700/441, 11-12=-2547/355, 2-22=-1063/222, 12-14=-1063/211
BOT CHORD 21-22=-191/330, 20-21=-240/2381, 19-20=-281/3559, 18-19=-164/3310, 17-18=-166/3242, 16-17=-284/3438, 15-16=-246/2225
WEBS 7-18=-117/1487, 8-18=-1998/282, 8-17=-89/1753, 9-17=0/434, 9-16=-337/34, 11-16=-45/1155, 11-15=-584/110, 6-18=-2078/281, 6-19=-87/1811, 5-19=0/415, 5-20=-337/36, 3-20=-48/1155, 3-21=-584/106, 2-21=-219/1991, 12-15=-225/1991

JOINT STRESS INDEX
2 = 0.75, 3 = 0.36, 4 = 0.43, 5 = 0.25, 6 = 0.65, 7 = 0.69, 8 = 0.65, 9 = 0.25, 10 = 0.43, 11 = 0.36, 12 = 0.75, 14 = 0.54, 15 = 0.60, 16 = 0.35, 17 = 0.77, 18 = 0.52, 19 = 0.77, 20 = 0.35, 21 = 0.60 and 22 = 0.54

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; B=45ft; L=45ft; eave=6ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 5) Bearing at joint(s) 22, 14 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - 6) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at j(s) 22 and 14. This connection is for uplift only and does not consider lateral forces.
 - 7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job 1900052-1900052AB1	Truss Roof Special	Truss Type Roof Special	Qty 5	Ply 1	Brett Anderson Mancave
---------------------------	-----------------------	----------------------------	----------	----------	------------------------

84 Components, Dunn, NC 28334

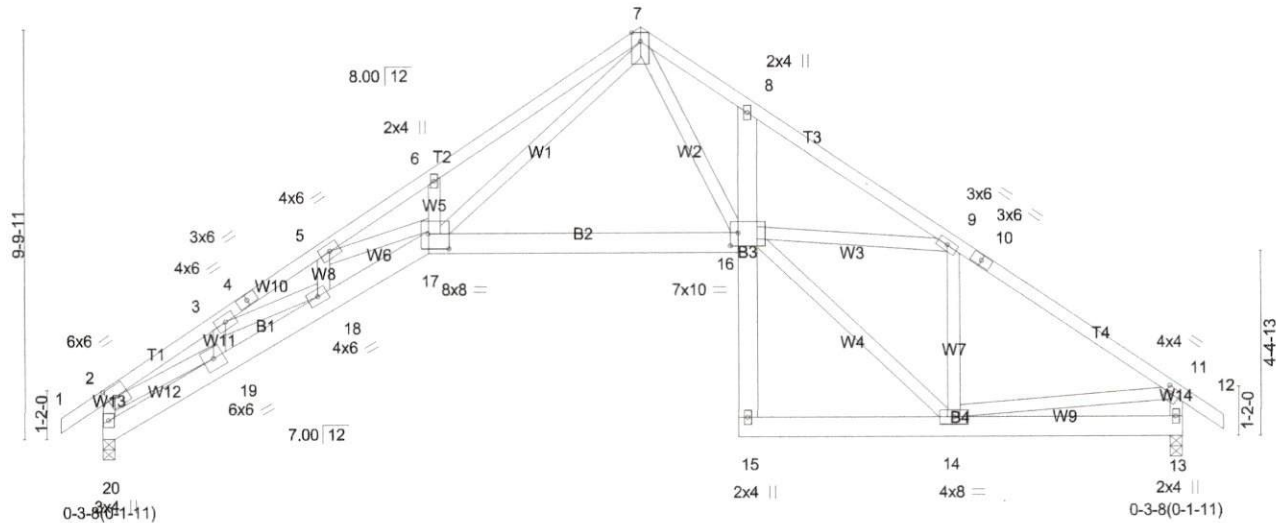
Job Reference (optional)
8.300 s Jun 26 2019 MiTek Industries, Inc. Tue Jul 30 16:55:11 2019 Page 1

ID:8n1Mz0njbAaon55jR1ed_zysr3e-QHHzjG4pbjOt0Vnjx812olFVPTF8_z7O4eaR2fysqRE

1-0-0	2-9-11	5-3-14	7-10-1	12-11-8	15-3-8	20-5-8	25-11-0	26-11-0
1-0-0	2-9-11	2-6-3	2-6-3	5-1-7	2-4-0	5-2-0	5-5-8	1-0-0

5x9 ||

Scale = 1:54.0



2-9-11	5-3-14	7-10-1	15-3-8	20-5-8	25-11-0
2-9-11	2-6-3	2-6-3	7-5-7	5-2-0	5-5-8

Plate Offsets (X,Y) - [2:0-2-3,0-3-0], [11:0-1-4,0-1-12], [16:0-2-4,0-3-12], [17:0-6-0,0-4-4]

LOADING (psf)	SPACING-	CSI.	DEFL	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.75	Vert(LL)	-0.28	16-17	>999	240	MT20
TCDL 10.0	Plate Grip DOL 1.15	BC 0.73	Vert(CT)	-0.59	16-17	>525	180	244/190
BCLL 0.0 *	Lumber DOL 1.15	WB 0.82	Horz(CT)	0.54	13	n/a	n/a	
BCDL 10.0	Rep Stress Incr YES	Matrix-MS						
	Code IRC2015/TPI2014							
							Weight: 198 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2 *Except*
T2: 2x4 SP No.1
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3 *Except*
W1: 2x4 SP No.2

BRACING-

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

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

REACTIONS. (lb/size) 20=1094/0-3-8 (min. 0-1-11), 13=1094/0-3-8 (min. 0-1-11)
Max Horz 20=-208(LC 10)
Max Uplift 20=-153(LC 12), 13=-153(LC 12)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2541/348, 3-4=-3718/441, 4-5=-3689/453, 5-6=-4077/395, 6-7=-4118/550, 7-8=-2318/343, 8-9=-2375/275, 9-10=-1138/230, 10-11=-1297/211, 2-20=-1064/221, 11-13=-1029/235
BOT CHORD 19-20=-191/332, 18-19=-238/2375, 17-18=-283/3582, 16-17=0/1298
WEBS 3-19=-583/109, 3-18=-57/1181, 5-18=-348/23, 5-17=0/366, 6-17=-254/197, 7-17=-361/3013, 7-16=-151/1359, 14-16=-111/1293, 9-16=0/925, 9-14=-916/157, 2-19=-217/1982, 11-14=-24/823

JOINT STRESS INDEX

2 = 0.75, 3 = 0.37, 4 = 0.44, 5 = 0.25, 6 = 0.27, 7 = 0.90, 8 = 0.64, 9 = 0.38, 10 = 0.17, 11 = 0.75, 13 = 0.95, 14 = 0.72, 15 = 0.45, 16 = 0.79, 17 = 0.78, 18 = 0.35, 19 = 0.60 and 20 = 0.54

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; B=45ft; L=45ft; eave=6ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Bearing at joint(s) 20 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at j(s) 20 and 13. This connection is for uplift only and does not consider lateral forces.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job 1900052-1900052AB1E	Truss GABLE	Truss Type GABLE	Qty 1	Ply 1	Brett Anderson Mancave
----------------------------	----------------	---------------------	----------	----------	------------------------

84 Components, Dunn, NC 28334
 Job Reference (optional)
 8,300 s Jun 26 2019 MiTek Industries, Inc. Tue Jul 30 16:55:13 2019 Page 1
 ID:8n1Mz0nbAaon55jR1ed_zysr3e-MgPk8x646KeaGpx62Z3WtjlrVHxcStVhXy3Y7YysqRC

-1-0-0	2-9-11	5-3-14	7-10-1	12-11-8	15-3-8	20-5-8	25-11-0	26-11-0
1-0-0	2-9-11	2-6-3	2-6-3	5-1-7	2-4-0	5-2-0	5-5-8	1-0-0

Scale = 1:54.7

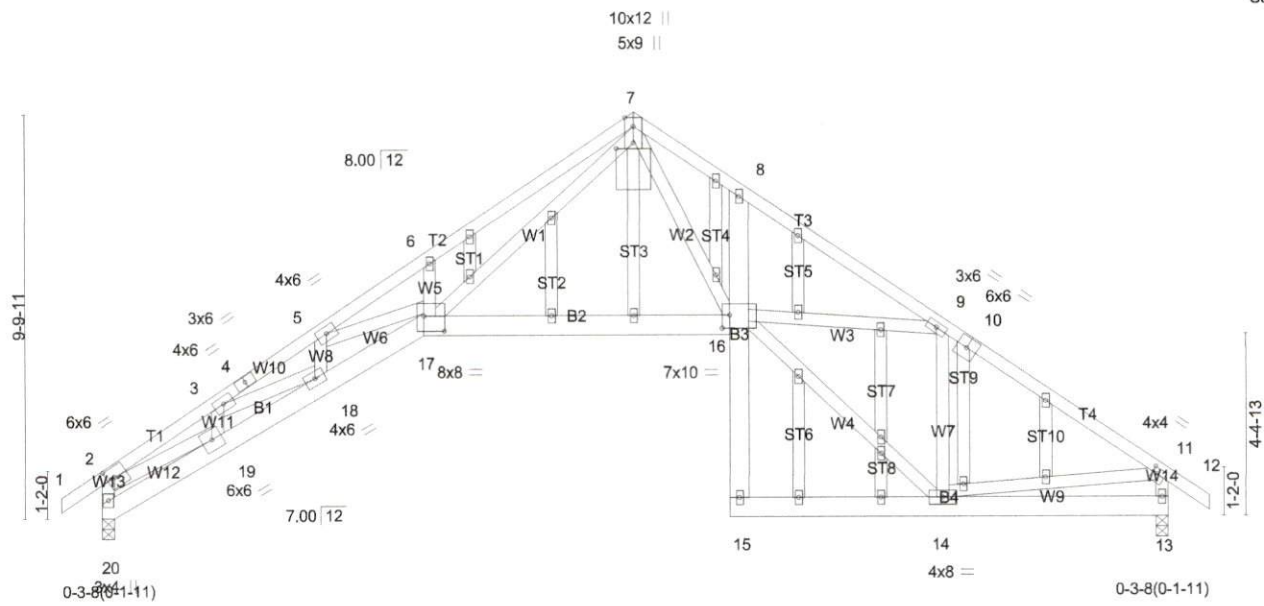


Plate Offsets (X,Y)-	[2:0-2-3,0-3-0], [7:0-1-11,0-5-0], [11:0-1-4,0-1-12], [16:0-2-4,0-3-12], [17:0-6-0,0-4-4]
----------------------	---

LOADING (psf)	SPACING-	CSI	DEFL	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.75	in (loc) l/deff L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.73	Vert(LL) -0.28 16-17 >999 240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.82	Vert(CT) -0.59 16-17 >525 180		
BCDL 10.0	Rep Stress Incr YES	Matrix-MS	Horz(CT) 0.54 13 n/a n/a		
	Code IRC2015/TPI2014			Weight: 235 lb	FT = 20%

LUMBER-
 TOP CHORD 2x4 SP No.2 *Except*
 T2: 2x4 SP No.1
 BOT CHORD 2x6 SP No.2
 WEBS 2x4 SP No.3 *Except*
 W1: 2x4 SP No.2
 OTHERS 2x4 SP No.3

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

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

REACTIONS. (lb/size) 20=1094/0-3-8 (min. 0-1-11), 13=1094/0-3-8 (min. 0-1-11)
 Max Horz 20=-208(LC 10)
 Max Uplift 20=-153(LC 12), 13=-153(LC 12)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-254/1348, 3-4=-3718/441, 4-5=-3689/453, 5-6=-4077/395, 6-7=-4118/550, 7-8=-2318/343,
 8-9=-2375/275, 9-10=-1138/230, 10-11=-1297/211, 2-20=-1064/221, 11-13=-1029/235
 BOT CHORD 19-20=-191/332, 18-19=-238/2375, 17-18=-283/3582, 16-17=0/1298
 WEBS 3-19=-583/109, 3-18=-57/1181, 5-18=-348/23, 5-17=0/366, 6-17=-254/197, 7-17=-361/3013,
 7-16=-151/1359, 14-16=-111/1293, 9-16=0/925, 9-14=-916/157, 2-19=-217/1982, 11-14=-24/823

JOINT STRESS INDEX
 2 = 0.75, 3 = 0.37, 4 = 0.44, 5 = 0.25, 6 = 0.27, 7 = 0.90, 7 = 0.29, 8 = 0.64, 9 = 0.38, 10 = 0.16, 11 = 0.75, 13 = 0.95, 14 = 0.72, 15 = 0.45, 16 = 0.79, 17 = 0.78, 18 = 0.35, 19 = 0.60, 20 = 0.54, 21 = 0.27,
 22 = 0.27, 23 = 0.27, 24 = 0.27, 25 = 0.27, 26 = 0.28, 27 = 0.27, 28 = 0.27, 29 = 0.27, 30 = 0.27, 31 = 0.27, 32 = 0.27, 33 = 0.27, 34 = 0.27, 35 = 0.27, 36 = 0.27 and 37 = 0.27

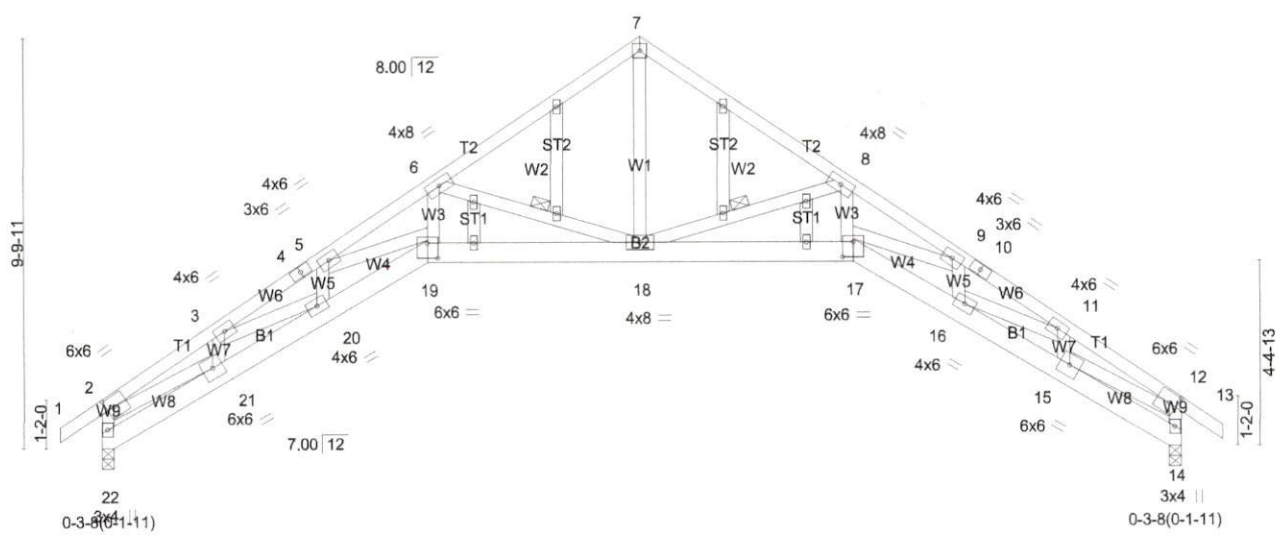
- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; B=45ft; L=45ft; eave=6ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable studs spaced at 2-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Bearing at joint(s) 20 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 20 and 13. This connection is for uplift only and does not consider lateral forces.
 - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

-1-0-0	2-9-11	5-3-14	7-10-1	12-11-8	18-0-15	20-7-2	23-1-5	25-11-0	26-11-0
1-0-0	2-9-11	2-6-3	2-6-3	5-1-7	5-1-7	2-6-3	2-6-3	2-9-11	1-0-0

4x4 =

Scale = 1:54.0



2-9-11	5-3-14	7-10-1	12-11-8	18-0-15	20-7-2	23-1-5	25-11-0
2-9-11	2-6-3	2-6-3	5-1-7	5-1-7	2-6-3	2-6-3	2-9-11

Plate Offsets (X,Y) - [2:0-2-3,0-3-0], [12:0-2-3,0-3-0], [17:0-3-0,0-4-4], [19:0-3-0,0-4-4]

LOADING (psf)	SPACING-	CSI	DEFL	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.42	Vert(LL)	-0.28 18-19	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.74	Vert(CT)	-0.57 18-19	>544	180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.82	Horz(CT)	0.71 14	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-MS						

Weight: 185 lb FT = 20%

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

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 2-8-10 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
 WEBS 1 Row at midpt 8-18, 6-18

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

REACTIONS. (lb/size) 22=1094/0-3-8 (min. 0-1-11), 14=1094/0-3-8 (min. 0-1-11)
 Max Horz 22=-208(LC 10)
 Max Uplift 22=-153(LC 12), 14=-153(LC 12)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-2547/351, 3-4=-3700/437, 4-5=-3638/445, 5-6=-4098/419, 6-7=-1700/226, 7-8=-1700/227, 8-9=-4098/421, 9-10=-3639/449, 10-11=-3700/441, 11-12=-2547/355, 2-22=-1063/222, 12-14=-1063/211
 BOT CHORD 21-22=-191/330, 20-21=-240/2381, 19-20=-281/3559, 18-19=-164/3310, 17-18=-166/3242, 16-17=-284/3438, 15-16=-246/2225
 WEBS 7-18=-117/1487, 8-18=-1998/282, 8-17=-89/1753, 9-17=0/434, 9-16=-337/34, 11-16=-45/1155, 11-15=-584/110, 6-18=-2078/281, 6-19=-87/1811, 5-19=0/415, 5-20=-337/36, 3-20=-48/1155, 3-21=-584/106, 2-21=-219/1991, 12-15=-225/1991

JOINT STRESS INDEX
 2 = 0.75, 3 = 0.36, 4 = 0.43, 5 = 0.25, 6 = 0.65, 7 = 0.69, 8 = 0.65, 9 = 0.25, 10 = 0.43, 11 = 0.36, 12 = 0.75, 14 = 0.54, 15 = 0.60, 16 = 0.35, 17 = 0.77, 18 = 0.52, 19 = 0.77, 20 = 0.35, 21 = 0.60, 22 = 0.54, 23 = 0.27, 24 = 0.27, 25 = 0.27, 26 = 0.27, 27 = 0.27, 28 = 0.27, 29 = 0.27 and 30 = 0.27

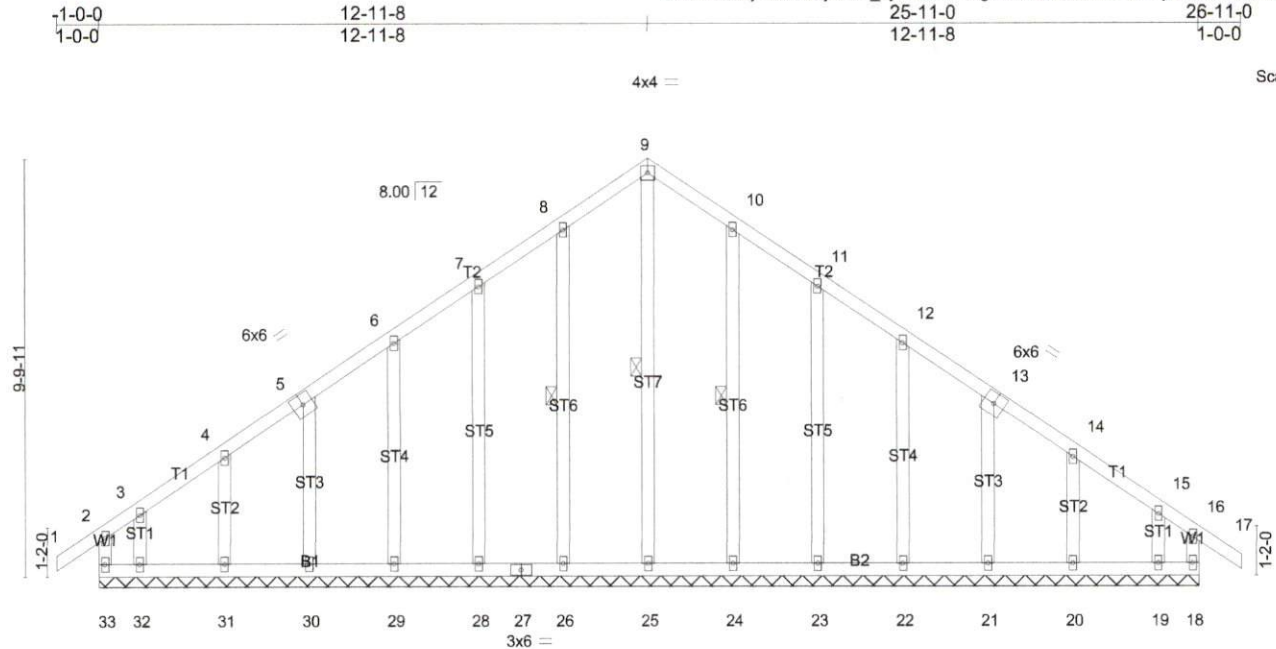
- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BC DL=6.0psf; h=30ft; B=45ft; L=45ft; eave=6ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 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) All plates are 2x4 MT20 unless otherwise indicated.
 - 5) Gable studs spaced at 2-0-0 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 live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 8) Bearing at joint(s) 22, 14 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - 9) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 22 and 14. This connection is for uplift only and does not consider lateral forces.
 - 10) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job 1900052-1900052AA1E	Truss Common Supported Gable	Truss Type Common Supported Gable	Qty 1	Ply 1	Brett Anderson Mancave
----------------------------	---------------------------------	--------------------------------------	----------	----------	------------------------

84 Components, Dunn, NC 28334

Job Reference (optional)
8.300 s Jun 26 2019 MiTek Industries, Inc. Tue Jul 30 16:55:06 2019 Page 1
ID:8n1Mz0nbAaon55jR1ed_zysr3e-4KU4gY0hmBlawkum8bRt5FyoUSixJtkfwNsgNSysqRJ



Scale = 1:53.0

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.18	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.09	Vert(LL) -0.00 17 n/r 120		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.12	Vert(CT) -0.01 17 n/r 90		
BCDL 10.0	Rep Stress Incr YES	Matrix-R	Horz(CT) -0.00 18 n/a n/a		
	Code IRC2015/TPI2014			Weight: 187 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 9-25, 8-26, 10-24

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

REACTIONS. All bearings 25-11-0.
(lb) - Max Horz 33=208(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) 26, 28, 29, 30, 31, 24, 23, 22, 21, 20, 19 except 33=-163(LC 10), 18=-109(LC 11), 32=-118(LC 11)
Max Grav All reactions 250 lb or less at joint(s) 33, 18, 26, 28, 29, 30, 31, 32, 24, 23, 22, 21, 20, 19 except 25=259(LC 12)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 8-9=-236/292, 9-10=-236/292
WEBS 9-25=-257/145

JOINT STRESS INDEX
2 = 0.55, 3 = 0.27, 4 = 0.27, 5 = 0.12, 6 = 0.27, 7 = 0.27, 8 = 0.27, 9 = 0.22, 10 = 0.27, 11 = 0.27, 12 = 0.27, 13 = 0.12, 14 = 0.27, 15 = 0.27, 16 = 0.55, 18 = 0.63, 19 = 0.27, 20 = 0.27, 21 = 0.27, 22 = 0.27, 23 = 0.27, 24 = 0.27, 25 = 0.27, 26 = 0.27, 27 = 0.12, 28 = 0.27, 29 = 0.27, 30 = 0.27, 31 = 0.27, 32 = 0.27 and 33 = 0.63

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCCL=6.0psf; BCCL=6.0psf; h=30ft; B=45ft; L=45ft; eave=2ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
 - Gable studs spaced at 2-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 33, 18, 26, 28, 29, 30, 31, 32, 24, 23, 22, 21, 20, and 19. This connection is for uplift only and does not consider lateral forces.
 - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

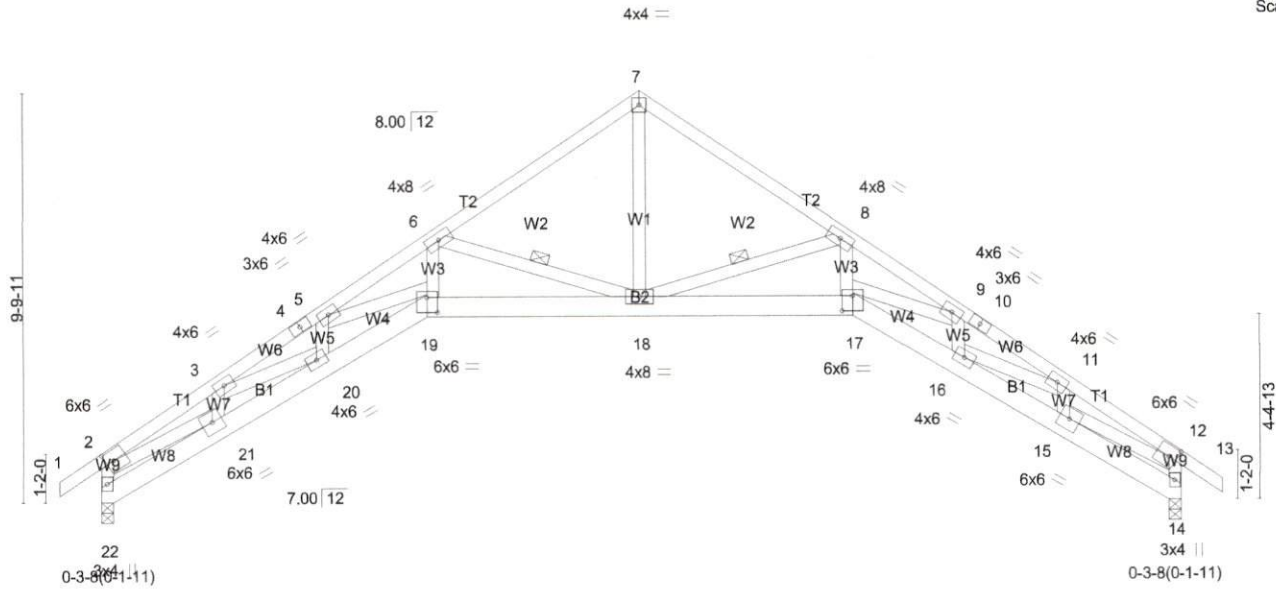
Job 1900052-1900052AB	Truss Roof Special	Truss Type Roof Special	Qty 10	Ply 1	Brett Anderson Mancave
---------------------------------	------------------------------	-----------------------------------	------------------	-----------------	-------------------------------

Job Reference (optional)
8.300 s Jun 26 2019 MiTek Industries, Inc. Tue Jul 30 16:55:09 2019 Page 1
ID:8n1Mz0nbAaon55jR1ed_zysr3e-Uv9Dla3Z3689nBdLpj?ajtaF3gaZW3S5cK5K_nysqRG

84 Components, Dunn, NC 28334

-1-0-0	2-9-11	5-3-14	7-10-1	12-11-8	18-0-15	20-7-2	23-1-5	25-11-0	26-11-0
1-0-0	2-9-11	2-6-3	2-6-3	5-1-7	5-1-7	2-6-3	2-6-3	2-9-11	1-0-0

Scale = 1:54.0



	2-9-11	5-3-14	7-10-1	12-11-8	18-0-15	20-7-2	23-1-5	25-11-0
	2-9-11	2-6-3	2-6-3	5-1-7	5-1-7	2-6-3	2-6-3	2-9-11

Plate Offsets (X,Y) - [2:0-2-3,0-3-0], [12:0-2-3,0-3-0], [17:0-3-0,0-4-4], [19:0-3-0,0-4-4]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.42	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.74	Vert(LL) -0.28 18-19 >999 240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.82	Vert(CT) -0.57 18-19 >544 180		
BCDL 10.0	Rep Stress Incr YES	Matrix-MS	Horz(CT) 0.71 14 n/a n/a		
	Code IRC2015/TPI2014			Weight: 174 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-8-10 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 8-18, 6-18

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

REACTIONS. (lb/size) 22=1094/0-3-8 (min. 0-1-11), 14=1094/0-3-8 (min. 0-1-11)
Max Horz 22=-208(LC 10)
Max Uplift 22=-153(LC 12), 14=-153(LC 12)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2547/351, 3-4=-3700/437, 4-5=-3638/445, 5-6=-4098/419, 6-7=-1700/226, 7-8=-1700/227, 8-9=-4098/421, 9-10=-3639/449, 10-11=-3700/441, 11-12=-2547/355, 2-22=-1063/222, 12-14=-1063/211
BOT CHORD 21-22=-191/330, 20-21=-240/2381, 19-20=-281/3559, 18-19=-164/3310, 17-18=-166/3242, 16-17=-284/3438, 15-16=-246/2225
WEBS 7-18=-117/1487, 8-18=-1998/282, 8-17=-89/1753, 9-17=0/434, 9-16=-337/34, 11-16=-45/1155, 11-15=-584/110, 6-18=-2078/281, 6-19=-87/1811, 5-19=0/415, 5-20=-337/36, 3-20=-48/1155, 3-21=-584/106, 2-21=-219/1991, 12-15=-225/1991

JOINT STRESS INDEX
2 = 0.75, 3 = 0.36, 4 = 0.43, 5 = 0.25, 6 = 0.65, 7 = 0.69, 8 = 0.65, 9 = 0.25, 10 = 0.43, 11 = 0.36, 12 = 0.75, 14 = 0.54, 15 = 0.80, 16 = 0.35, 17 = 0.77, 18 = 0.52, 19 = 0.77, 20 = 0.35, 21 = 0.60 and 22 = 0.54

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=30ft; B=45ft; L=45ft; eave=6ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Bearing at joint(s) 22, 14 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 22 and 14. This connection is for uplift only and does not consider lateral forces.
 - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

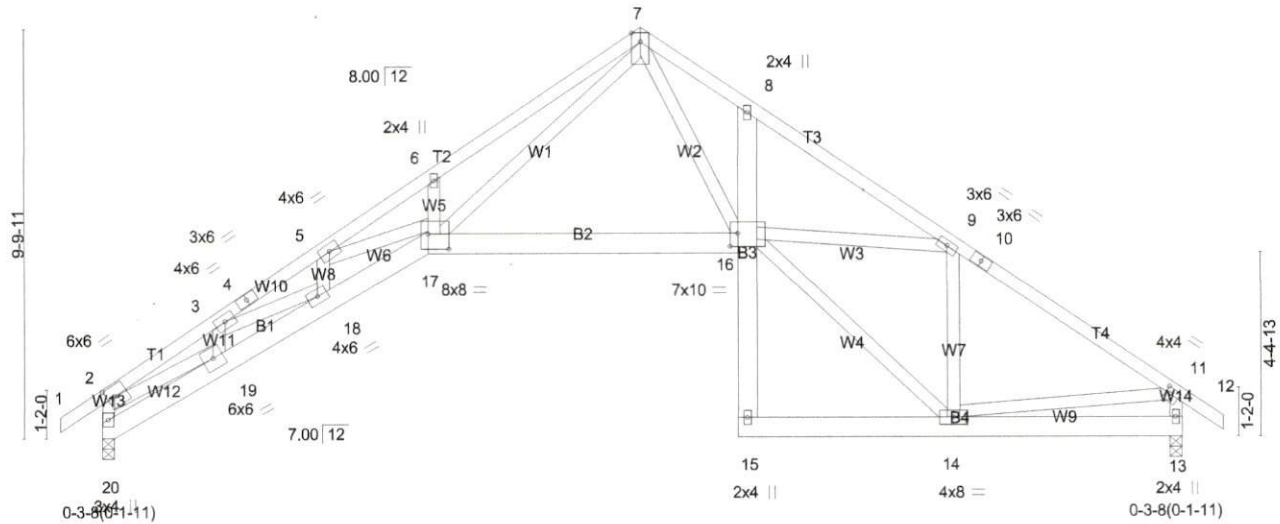
Job 1900052-1900052AB1	Truss 84 Components, Dunn, NC 28334	Truss Type Roof Special	Qty 5	Ply 1	Brett Anderson Mancave
---------------------------	--	----------------------------	----------	----------	------------------------

Job Reference (optional)
8.300 s Jun 26 2019 MiTek Industries, Inc. Tue Jul 30 16:55:11 2019 Page 1
ID:8n1Mz0njbAaon55jR1ed_zysr3e-QHHZjG4pbjOt0Vnjx812oIfVPTf8_z?O4eaR2fysqRE

-1-0-0	2-9-11	5-3-14	7-10-1	12-11-8	15-3-8	20-5-8	25-11-0	26-11-0
1-0-0	2-9-11	2-6-3	2-6-3	5-1-7	2-4-0	5-2-0	5-5-8	1-0-0

5x9 ||

Scale = 1:54.0



2-9-11	5-3-14	7-10-1	15-3-8	20-5-8	25-11-0
2-9-11	2-6-3	2-6-3	7-5-7	5-2-0	5-5-8

Plate Offsets (X,Y) - [2:0-2-3,0-3-0], [11:0-1-4,0-1-12], [16:0-2-4,0-3-12], [17:0-6-0,0-4-4]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.75	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.73	Vert(LL) -0.28 16-17 >999 240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.82	Vert(CT) -0.59 16-17 >525 180		
BCDL 10.0	Rep Stress Incr YES	Matrix-MS	Horz(CT) 0.54 13 n/a n/a		
	Code IRC2015/TPI2014			Weight: 198 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2 *Except*
T2: 2x4 SP No.1
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3 *Except*
W1: 2x4 SP No.2

BRACING-

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

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

REACTIONS.

(lb/size) 20=1094/0-3-8 (min. 0-1-11), 13=1094/0-3-8 (min. 0-1-11)
Max Horz 20=-208(LC 10)
Max Uplift 20=-153(LC 12), 13=-153(LC 12)

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

TOP CHORD 2-3=-2541/348, 3-4=-3718/441, 4-5=-3689/453, 5-6=-4077/395, 6-7=-4118/550, 7-8=-2318/343, 8-9=-2375/275, 9-10=-1138/230, 10-11=-1297/211, 2-20=-1064/221, 11-13=-1029/235
BOT CHORD 19-20=-191/332, 18-19=-238/2375, 17-18=-283/3582, 16-17=0/1298
WEBS 3-19=-583/109, 3-18=-57/1181, 5-18=-348/23, 5-17=0/366, 6-17=-254/197, 7-17=-361/3013, 7-16=-151/1359, 14-16=-111/1293, 9-16=0/925, 9-14=-916/157, 2-19=-217/1982, 11-14=-24/823

JOINT STRESS INDEX

2 = 0.75, 3 = 0.37, 4 = 0.44, 5 = 0.25, 6 = 0.27, 7 = 0.90, 8 = 0.64, 9 = 0.38, 10 = 0.17, 11 = 0.75, 13 = 0.95, 14 = 0.72, 15 = 0.45, 16 = 0.79, 17 = 0.78, 18 = 0.35, 19 = 0.60 and 20 = 0.54

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; B=45ft; L=45ft; eave=6ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Bearing at joint(s) 20 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 20 and 13. This connection is for uplift only and does not consider lateral forces.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job 1900052-1900052AB1E	Truss GABLE	Truss Type GABLE	Qty 1	Ply 1	Brett Anderson Mancave
-----------------------------------	-----------------------	----------------------------	-----------------	-----------------	-------------------------------

84 Components, Dunn, NC 28334
 Job Reference (optional)
 8,300 s Jun 26 2019 MiTek Industries, Inc. Tue Jul 30 16:55:13 2019 Page 1
 ID:8n1MzOnjbAaon55JR1ed_zysr3e-MgPk8x646KeaGpx62Z3WtjlrVHxcStVhXy3Y7YysqRc

1-0-0	2-9-11	5-3-14	7-10-1	12-11-8	15-3-8	20-5-8	25-11-0	26-11-0
1-0-0	2-9-11	2-6-3	2-6-3	5-1-7	2-4-0	5-2-0	5-5-8	1-0-0

Scale = 1:54.7

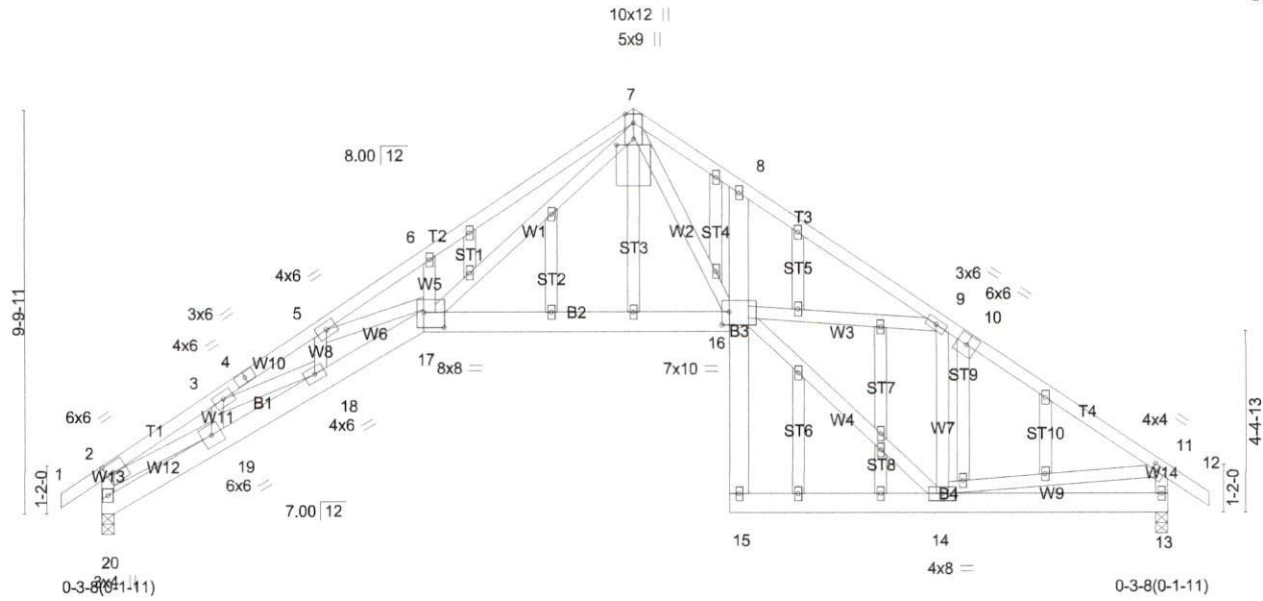


Plate Offsets (X,Y)-	[2:0-2-3,0-3-0], [7:0-1-11,0-5-0], [11:0-1-4,0-1-12], [16:0-2-4,0-3-12], [17:0-6-0,0-4-4]
----------------------	---

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.75	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.73	Vert(LL) -0.28 16-17 >999 240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.82	Vert(CT) -0.59 16-17 >525 180		
BCDL 10.0	Rep Stress Incr YES	Matrix-MS	Horz(CT) 0.54 13 n/a n/a		
	Code IRC2015/TPI2014			Weight: 235 lb	FT = 20%

LUMBER-
 TOP CHORD 2x4 SP No.2 *Except*
 T2: 2x4 SP No.1
 BOT CHORD 2x6 SP No.2
 WEBS 2x4 SP No.3 *Except*
 W1: 2x4 SP No.2
 OTHERS 2x4 SP No.3

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

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

REACTIONS. (lb/size) 20=1094/0-3-8 (min. 0-1-11), 13=1094/0-3-8 (min. 0-1-11)
 Max Horz 20=-208(LC 10)
 Max Uplift 20=-153(LC 12), 13=-153(LC 12)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-2541/348, 3-4=-3718/441, 4-5=-3689/453, 5-6=-4077/395, 6-7=-4118/550, 7-8=-2318/343,
 8-9=-2375/275, 9-10=-1138/230, 10-11=-1297/211, 2-20=-1064/221, 11-13=-1029/235
 BOT CHORD 19-20=-191/332, 18-19=-238/2375, 17-18=-283/3582, 16-17=0/1298
 WEBS 3-19=-583/109, 3-18=-57/1181, 5-18=-348/23, 5-17=0/366, 6-17=-254/197, 7-17=-361/3013,
 7-16=-151/1359, 14-16=-111/1293, 9-16=0/925, 9-14=-916/157, 2-19=-217/1982, 11-14=-24/823

JOINT STRESS INDEX
 2 = 0.75, 3 = 0.37, 4 = 0.44, 5 = 0.25, 6 = 0.27, 7 = 0.90, 7 = 0.29, 8 = 0.64, 9 = 0.38, 10 = 0.16, 11 = 0.75, 13 = 0.95, 14 = 0.72, 15 = 0.45, 16 = 0.79, 17 = 0.78, 18 = 0.35, 19 = 0.60, 20 = 0.54, 21 = 0.27,
 22 = 0.27, 23 = 0.27, 24 = 0.27, 25 = 0.27, 26 = 0.28, 27 = 0.27, 28 = 0.27, 29 = 0.27, 30 = 0.27, 31 = 0.27, 32 = 0.27, 33 = 0.27, 34 = 0.27, 34 = 0.27, 35 = 0.27, 36 = 0.27 and 37 = 0.27

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; B=45ft; L=45ft; eave=6ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable studs spaced at 2-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Bearing at joint(s) 20 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 20 and 13. This connection is for uplift only and does not consider lateral forces.
 - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job 1900052-1900052ABE	Truss GABLE	Truss Type GABLE	Qty 1	Ply 1	Brett Anderson Mancave
---------------------------	----------------	---------------------	----------	----------	------------------------

84 Components, Dunn, NC 28334

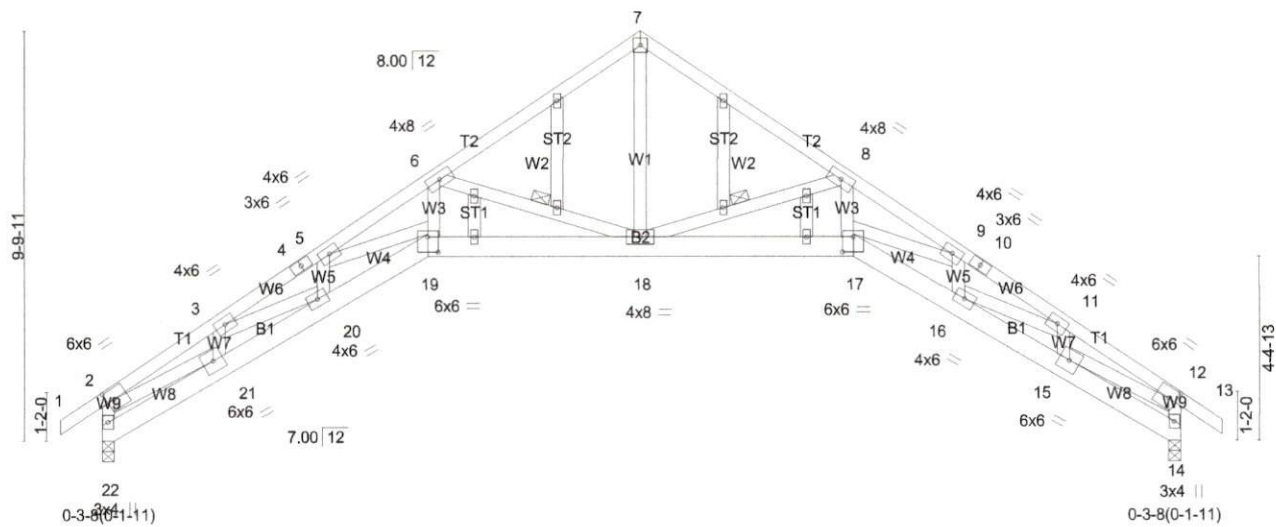
Job Reference (optional)
8.300 s Jun 26 2019 MiTek Industries, Inc. Tue Jul 30 16:55:16 2019 Page 1

ID:8n1Mz0njbAaon55jR1ed_zysr3e-nF4smz8yPF097GfhkhdVVMNRUzCFEB7DwICjysqR9

1-0-0	2-9-11	5-3-14	7-10-1	12-11-8	18-0-15	20-7-2	23-1-5	25-11-0	26-11-0
1-0-0	2-9-11	2-6-3	2-6-3	5-1-7	5-1-7	2-6-3	2-6-3	2-9-11	1-0-0

4x4 =

Scale = 1:54.0



2-9-11	5-3-14	7-10-1	12-11-8	18-0-15	20-7-2	23-1-5	25-11-0
2-9-11	2-6-3	2-6-3	5-1-7	5-1-7	2-6-3	2-6-3	2-9-11

Plate Offsets (X,Y) - [2:0-2-3,0-3-0], [12:0-2-3,0-3-0], [17:0-3-0,0-4-4], [19:0-3-0,0-4-4]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.42	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.74	Vert(LL) -0.28 18-19 >999 240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.82	Vert(CT) -0.57 18-19 >544 180		
BCDL 10.0	Rep Stress Incr YES	Matrix-MS	Horz(CT) 0.71 14 n/a n/a		
	Code IRC2015/TPI2014			Weight: 185 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 2-8-10 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 8-18, 6-18

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

REACTIONS. (lb/size) 22=1094/0-3-8 (min. 0-1-11), 14=1094/0-3-8 (min. 0-1-11)
Max Horz 22=-208(LC 10)
Max Uplift 22=-153(LC 12), 14=-153(LC 12)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2547/351, 3-4=-3700/437, 4-5=-3638/445, 5-6=-4098/419, 6-7=-1700/227, 7-8=-1700/227, 8-9=-4098/421, 9-10=-3639/449, 10-11=-3700/441, 11-12=-2547/355, 2-22=-1063/222, 12-14=-1063/211
BOT CHORD 21-22=-191/330, 20-21=-240/2381, 19-20=-281/3559, 18-19=-164/3310, 17-18=-166/3242, 16-17=-284/3438, 15-16=-246/2225
WEBS 7-18=-117/1487, 8-18=-1998/282, 8-17=-89/1753, 9-17=0/434, 9-16=-337/34, 11-16=-45/1155, 11-15=-584/110, 6-18=-2078/281, 6-19=-87/1811, 5-19=0/415, 5-20=-337/36, 3-20=-48/1155, 3-21=-584/106, 2-21=-219/1991, 12-15=-225/1991

JOINT STRESS INDEX

2 = 0.75, 3 = 0.36, 4 = 0.43, 5 = 0.25, 6 = 0.65, 7 = 0.69, 8 = 0.65, 9 = 0.25, 10 = 0.43, 11 = 0.36, 12 = 0.75, 14 = 0.54, 15 = 0.60, 16 = 0.35, 17 = 0.77, 18 = 0.52, 19 = 0.77, 20 = 0.35, 21 = 0.60, 22 = 0.54, 23 = 0.27, 24 = 0.27, 25 = 0.27, 26 = 0.27, 27 = 0.27, 28 = 0.27, 29 = 0.27 and 30 = 0.27

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BC DL=6.0psf; h=30ft; B=45ft; L=45ft; eave=6ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Bearing at joint(s) 22, 14 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 22 and 14. This connection is for uplift only and does not consider lateral forces.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard