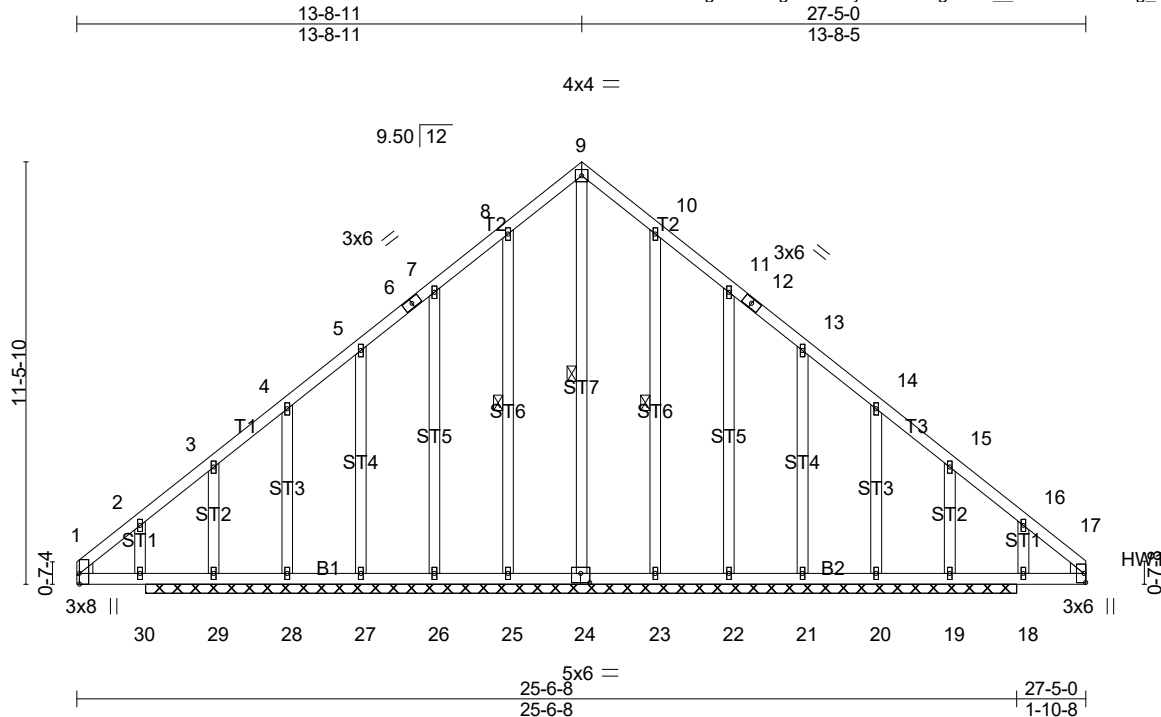


| | | | | | |
|--------------|-------------|---------------------------------------|----------|----------|-------------------------------|
| Job 27453 | Truss G1 | Truss Type Common Structural Gable | Qty 1 | Ply 1 | Freedpm Const\Wellons Realty\ |
|--------------|-------------|---------------------------------------|----------|----------|-------------------------------|

C&R Building Supply, Autryville NC

8.430 s Jan 20 2021 MiTek Industries, Inc. Wed Jul 12 14:06:51 2023 Page 1

ID:wFt46ioPgwnXurZgnFdDKky93cZ-0Y1gDKG3_e8cAO4z2B\Iwng_TXhpYwMxulz6mqyyob2



Scale = 1:62.6

Plate Offsets (X,Y)-- [1:0-3-8,Edge], [24:0-3-0,0-3-0]

| LOADING (psf) | SPACING- | CSI. | DEFL. | in (loc) | l/defl | L/d | PLATES | GRIP |
|---------------|----------------------|----------|----------|----------|--------|-----|----------------|----------|
| TCLL 20.0 | 2-0-0 | TC 0.30 | Vert(LL) | n/a | - | n/a | MT20 | 244/190 |
| TCDL 10.0 | Plate Grip DOL 1.15 | BC 0.41 | Vert(CT) | n/a | - | n/a | | |
| BCLL 0.0 * | Lumber DOL 1.15 | WB 0.20 | Horz(CT) | -0.01 | 19 | n/a | | |
| BCDL 10.0 | Rep Stress Incr YES | Matrix-S | | | | | | |
| | Code IRC2018/TPI2014 | | | | | | Weight: 207 lb | FT = 20% |

LUMBER-
 TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2
 OTHERS 2x4 SP No.3
 WEDGE
 Left: 2x4 SP No.3 , Right: 2x4 SP No.3

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 10-0-0 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
 WEBS 1 Row at midpt 9-24, 8-25, 10-23

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

REACTIONS. All bearings 23-8-0.
 (lb) - Max Horz 29=-268(LC 6)
 Max Uplift All uplift 100 lb or less at joint(s) 25, 26, 27, 23, 22, 21
 except 28=-265(LC 7), 29=-168(LC 4), 20=-261(LC 6), 19=-164(LC 5)
 Max Grav All reactions 250 lb or less at joint(s) 25, 26, 27, 23, 22, 21
 except 24=358(LC 2), 28=359(LC 6), 29=485(LC 14), 20=358(LC 7),
 19=479(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-89/264, 2-3=-48/270, 3-4=-125/273, 7-8=0/261, 8-9=0/312, 9-10=0/311,
 10-11=0/260, 14-15=-123/271, 15-16=-48/268, 16-17=-90/264
 WEBS 9-24=-327/0

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=111mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=27ft; eave=2ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - All plates are 1.5x4 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 with a clearance greater than 6-0-0 between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 25, 26, 27, 23, 22, 21 except (jt=lb) 28=265, 29=168, 20=261, 19=164.

Continued on page 2

| Job | Truss | Truss Type | Qty | Ply | Freedpm Const\Wellons Realty\ |
|-------|-------|-------------------------|-----|-----|-------------------------------|
| 27453 | G1 | Common Structural Gable | 1 | 1 | Job Reference (optional) |

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8.430 s Jan 20 2021 MiTek Industries, Inc. Wed Jul 12 14:06:52 2023 Page 2
ID:wFt46ioPgwNXurZgnFdDKky93cZ-Vkb2Q4Ghllm?DKzHWllkF8D8Cx12HNc47PjflGyob1

NOTES-

9) Non Standard bearing condition. Review required.

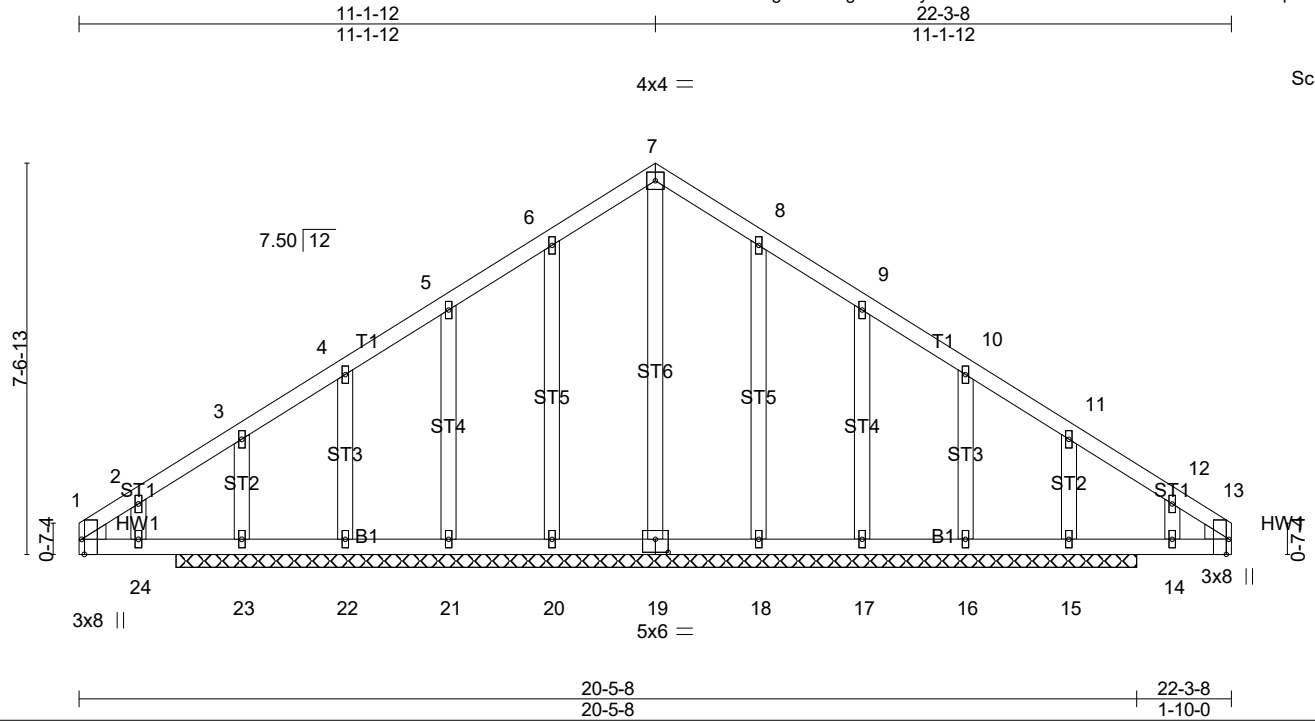
10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

| | | | | | |
|--------------|-------------|--------------------------------------|----------|----------|-------------------------------|
| Job 27453 | Truss G2 | Truss Type Common Supported Gable | Qty 1 | Ply 1 | Freedpm Const\Wellons Realty\ |
|--------------|-------------|--------------------------------------|----------|----------|-------------------------------|

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8.430 s Jan 20 2021 MiTek Industries, Inc. Wed Jul 12 14:06:53 2023 Page 1
ID:wFt46ioPgwNXurZgnFdDKky93cZ-zw9QeQHJWcusrUYT4TDzoLIK6LQU0ptDM3SDqiyjob0



Scale = 1:44.6

Plate Offsets (X,Y)-- [1:0-3-8,Edge], [13:0-3-8,Edge], [19:0-3-0,0-3-0]

| LOADING (psf) | SPACING- | CSI. | DEFL. | in (loc) | l/defl | L/d | PLATES | GRIP |
|---------------|----------------------|----------|----------|----------|--------|-----|----------------|----------|
| TCLL 20.0 | 2-0-0 | TC 0.22 | Vert(LL) | n/a | - | n/a | MT20 | 244/190 |
| TCDL 10.0 | Plate Grip DOL 1.15 | BC 0.21 | Vert(CT) | n/a | - | n/a | | |
| BCLL 0.0 * | Lumber DOL 1.15 | WB 0.27 | Horz(CT) | -0.00 | 15 | n/a | | |
| BCDL 10.0 | Rep Stress Incr YES | Matrix-S | | | | | | |
| | Code IRC2018/TPI2014 | | | | | | Weight: 133 lb | FT = 20% |

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.3
WEDGE
Left: 2x4 SP No.3 , Right: 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 10-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

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

REACTIONS. All bearings 18-7-0.
(lb) - Max Horz 23=160(LC 7)
Max Uplift All uplift 100 lb or less at joint(s) 20, 21, 22, 18, 17, 16, 15 except 23=-101(LC 8)
Max Grav All reactions 250 lb or less at joint(s) 20, 21, 22, 18, 17, 16 except 19=334(LC 2), 23=366(LC 19), 15=366(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 7-19=-262/0

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=111mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=24ft; eave=2ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; 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 1.5x4 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 with a clearance greater than 6-0-0 between the bottom chord and any other members, with BCDL = 10.0psf.
 - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 20, 21, 22, 18, 17, 16, 15 except (jt=lb) 23=101.
 - 9) Non Standard bearing condition. Review required.
 - 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

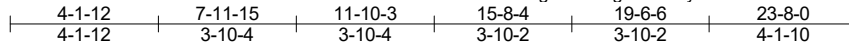
LOAD CASE(S) Standard

| | | | | | |
|--------------|--------------|-----------------------------|----------|----------|---|
| Job 27453 | Truss GR1 | Truss Type Common Girder | Qty 1 | Ply 3 | Freedpm Const(Wellons Realty) Job Reference (optional) |
|--------------|--------------|-----------------------------|----------|----------|---|

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Scale: 3/16"=1'

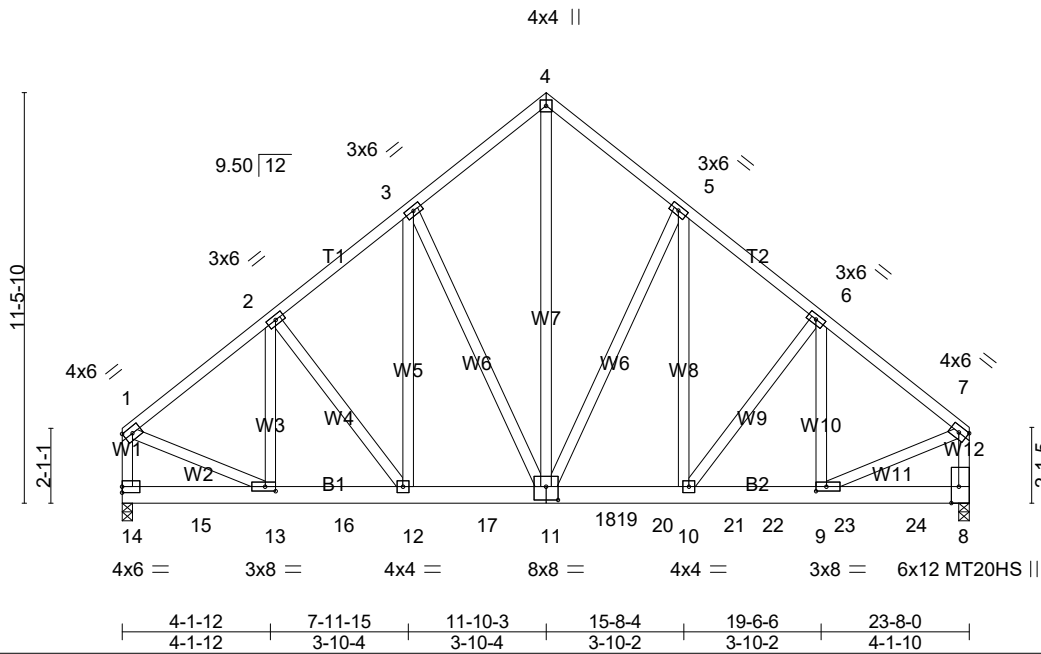


Plate Offsets (X,Y)-- [8:0-5-8,Edge], [9:0-3-8,0-1-8], [11:0-4-0,0-4-8], [13:0-3-8,0-1-8]

| | | | | | | | | |
|----------------------|----------------------|-------------|--------------|-------------|--------|-----|----------------|-------------|
| LOADING (psf) | SPACING- | CSI. | DEFL. | in (loc) | l/defl | L/d | PLATES | GRIP |
| TCLL 20.0 | 2-0-0 | TC 0.49 | Vert(LL) | -0.06 11-12 | >999 | 360 | MT20 | 244/190 |
| TCDL 10.0 | Plate Grip DOL 1.15 | BC 0.40 | Vert(CT) | -0.12 11-12 | >999 | 240 | MT20HS | 187/143 |
| BCLL 0.0 * | Lumber DOL 1.15 | WB 0.82 | Horz(CT) | 0.02 8 | n/a | n/a | | |
| BCDL 10.0 | Rep Stress Incr NO | Matrix-MS | Wind(LL) | 0.05 11-12 | >999 | 240 | | |
| | Code IRC2018/TPI2014 | | | | | | Weight: 638 lb | FT = 20% |

LUMBER-

TOP CHORD 2x4 SP No.2
 BOT CHORD 2x6 SP No.1
 WEBS 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 10-0-0 oc bracing.

REACTIONS. (lb/size) 14=6783/0-3-8 (min. 0-2-11), 8=6998/0-3-8 (min. 0-2-12)
 Max Horz 14=281(LC 7)
 Max Uplift 14=-495(LC 8), 8=-510(LC 8)

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

TOP CHORD 1-2=-6444/514, 2-3=-6198/559, 3-4=-5059/535, 4-5=-5059/535,
 5-6=-6151/556, 6-7=-6424/513, 1-14=-6243/478, 7-8=-6247/479
 BOT CHORD 14-15=-274/355, 13-15=-274/355, 13-16=-375/4991, 12-16=-375/4991,
 12-17=-316/4799, 17-18=-316/4799, 11-18=-316/4799, 11-19=-261/4763,
 19-20=-261/4763, 10-20=-261/4763, 10-21=-301/4975, 21-22=-301/4975,
 9-22=-301/4975
 WEBS 2-13=-214/285, 2-12=-344/101, 3-12=-177/2344, 3-11=-2051/257,
 4-11=-580/5934, 5-11=-1972/251, 5-10=-170/2245, 6-10=-380/104,
 6-9=-217/317, 1-13=-334/5297, 7-9=-333/5277

NOTES-

- 3-ply truss to be connected together with 10d (0.131"x3") nails as follows:
 Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
 Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-7-0 oc.
 Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=111mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- All plates are MT20 plates 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 with a clearance greater than 6-0-0 between the bottom chord and any other members, with BCDL = 10.0psf.

Continued on page 2

| | | | | | |
|--------------|--------------|-----------------------------|----------|-----------------|---|
| Job 27453 | Truss GR1 | Truss Type Common Girder | Qty 1 | Ply 3 | Freedpm Const\Wellons Realty\ Job Reference (optional) |
|--------------|--------------|-----------------------------|----------|-----------------|---|

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8.430 s Jan 20 2021 MiTek Industries, Inc. Wed Jul 12 14:06:55 2023 Page 2
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NOTES-

- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 14=495, 8=510.
- 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1083 lb down and 86 lb up at 2-0-12, 1083 lb down and 86 lb up at 4-0-12, 1083 lb down and 86 lb up at 6-0-12, 1083 lb down and 86 lb up at 8-0-12, 1083 lb down and 86 lb up at 10-0-12, 1083 lb down and 86 lb up at 12-0-12, 1083 lb down and 86 lb up at 14-0-12, 1083 lb down and 86 lb up at 16-0-12, 1083 lb down and 86 lb up at 18-0-12, and 1083 lb down and 86 lb up at 20-0-12, and 1083 lb down and 86 lb up at 22-0-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-4=-60, 4-7=-60, 8-14=-20

Concentrated Loads (lb)

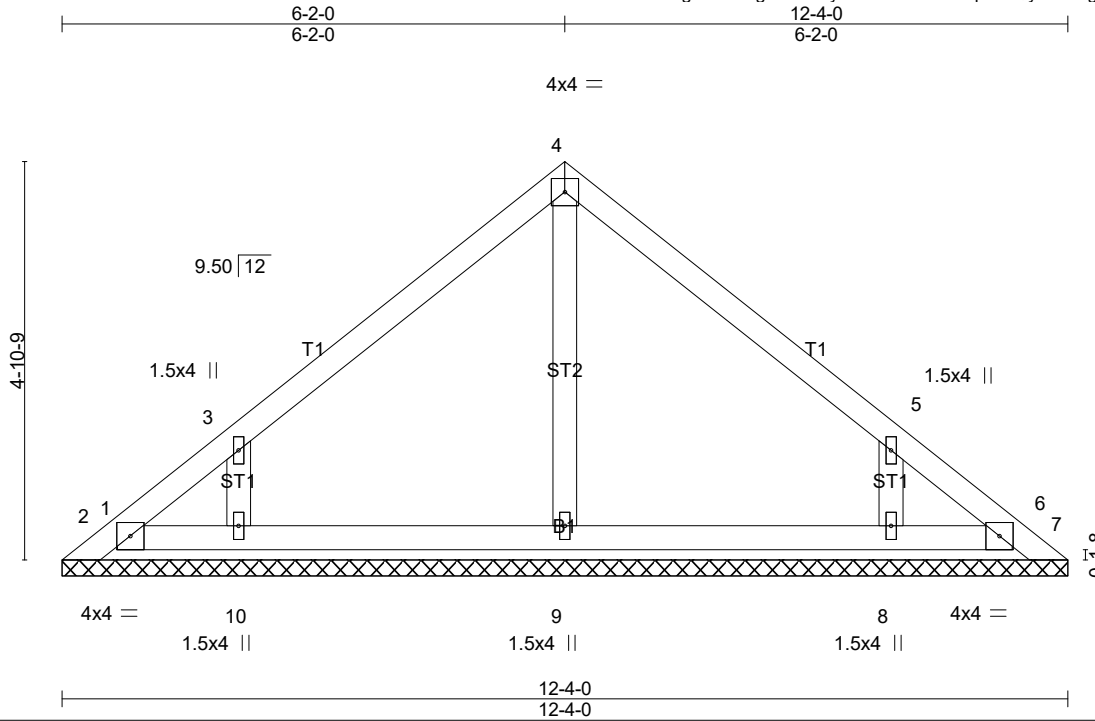
Vert: 13=-1083(F) 12=-1083(F) 11=-1083(F) 15=-1083(F) 16=-1083(F) 17=-1083(F) 20=-1083(F) 21=-1083(F) 22=-1083(F) 23=-1083(F) 24=-1083(F)

| | | | | | |
|--------------|--------------|---------------------|----------|----------|-------------------------------|
| Job 27453 | Truss PB1 | Truss Type GABLE | Qty 2 | Ply 1 | Freedpm Const\Wellons Realty\ |
|--------------|--------------|---------------------|----------|----------|-------------------------------|

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Scale = 1:28.3

| LOADING (psf) | SPACING- | CSI. | DEFL. | PLATES | GRIP |
|---------------|----------------------|----------|-------------------------|---------------|----------|
| TCLL 20.0 | 2-0-0 | TC 0.08 | in (loc) l/defl L/d | MT20 | 244/190 |
| TCDL 10.0 | Plate Grip DOL 1.15 | BC 0.12 | Vert(LL) n/a - n/a 999 | | |
| BCLL 0.0 * | Lumber DOL 1.15 | WB 0.06 | Vert(CT) n/a - n/a 999 | | |
| BCDL 10.0 | Rep Stress Incr YES | Matrix-S | Horz(CT) 0.00 7 n/a n/a | | |
| | Code IRC2018/TPI2014 | | | Weight: 49 lb | FT = 20% |

LUMBER-

TOP CHORD 2x4 SP 2400F 2.0E
 BOT CHORD 2x4 SP No.2
 OTHERS 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
 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.

All bearings 12-4-0.
 (lb) - Max Horz 1=-111(LC 6)
 Max Uplift All uplift 100 lb or less at joint(s) 1, 7, 2, 6 except
 10=-103(LC 8), 8=-103(LC 8)
 Max Grav All reactions 250 lb or less at joint(s) 1, 7, 2, 6, 9 except
 10=329(LC 13), 8=327(LC 14)

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

WEBS 3-10=-263/144, 5-8=-261/144

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=111mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 7, 2, 6 except (jt=lb) 10=103, 8=103.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

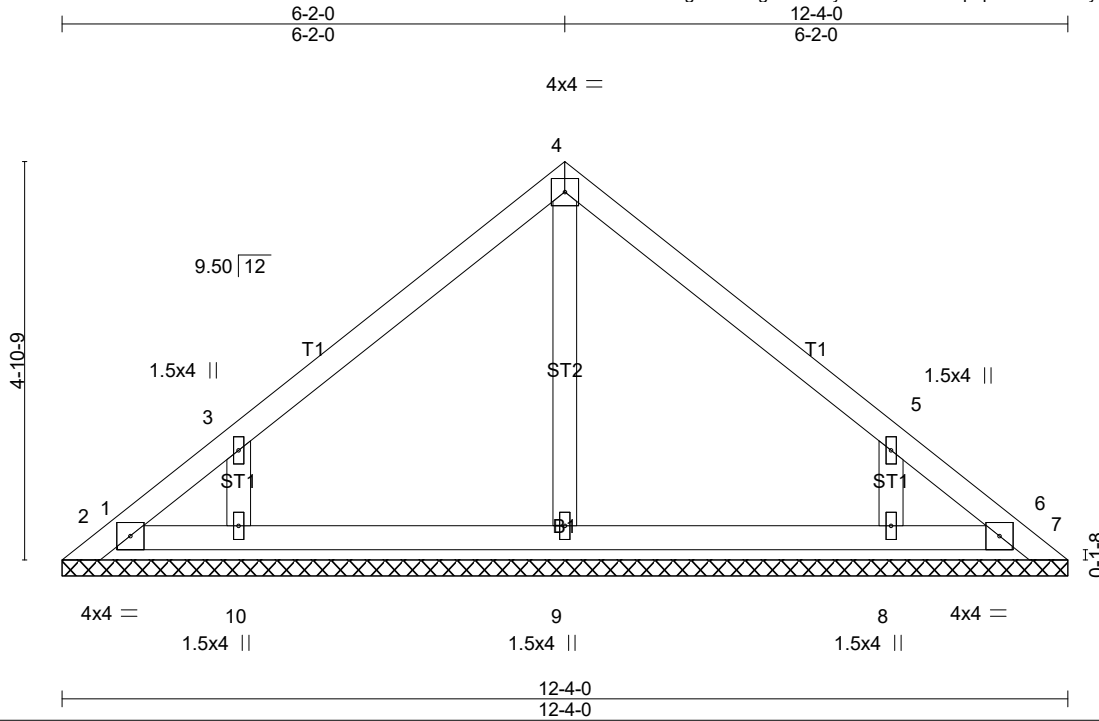
LOAD CASE(S) Standard

| | | | | | |
|--------------|--------------|---------------------|-----------|----------|-------------------------------|
| Job 27453 | Truss PB2 | Truss Type GABLE | Qty 27 | Ply 1 | Freedpm Const\Wellons Realty\ |
|--------------|--------------|---------------------|-----------|----------|-------------------------------|

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8.430 s Jan 20 2021 MiTek Industries, Inc. Wed Jul 12 14:06:57 2023 Page 1

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Scale = 1:28.3

| LOADING (psf) | SPACING- | CSI. | DEFL. | PLATES | GRIP |
|---------------|----------------------|----------|-------------------------|---------------|----------|
| TCLL 20.0 | 2-0-0 | TC 0.08 | in (loc) l/defl L/d | MT20 | 244/190 |
| TCDL 10.0 | Plate Grip DOL 1.15 | BC 0.12 | Vert(LL) n/a - n/a 999 | | |
| BCLL 0.0 * | Lumber DOL 1.15 | WB 0.06 | Vert(CT) n/a - n/a 999 | | |
| BCDL 10.0 | Rep Stress Incr YES | Matrix-S | Horz(CT) 0.00 7 n/a n/a | | |
| | Code IRC2018/TPI2014 | | | Weight: 49 lb | FT = 20% |

LUMBER-

TOP CHORD 2x4 SP 2400F 2.0E
 BOT CHORD 2x4 SP No.2
 OTHERS 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
 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.

All bearings 12-4-0.
 (lb) - Max Horz 1=-111(LC 6)
 Max Uplift All uplift 100 lb or less at joint(s) 1, 7, 2, 6 except
 10=-103(LC 8), 8=-103(LC 8)
 Max Grav All reactions 250 lb or less at joint(s) 1, 7, 2, 6, 9 except
 10=329(LC 13), 8=327(LC 14)

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

WEBS 3-10=-263/144, 5-8=-261/144

NOTES-

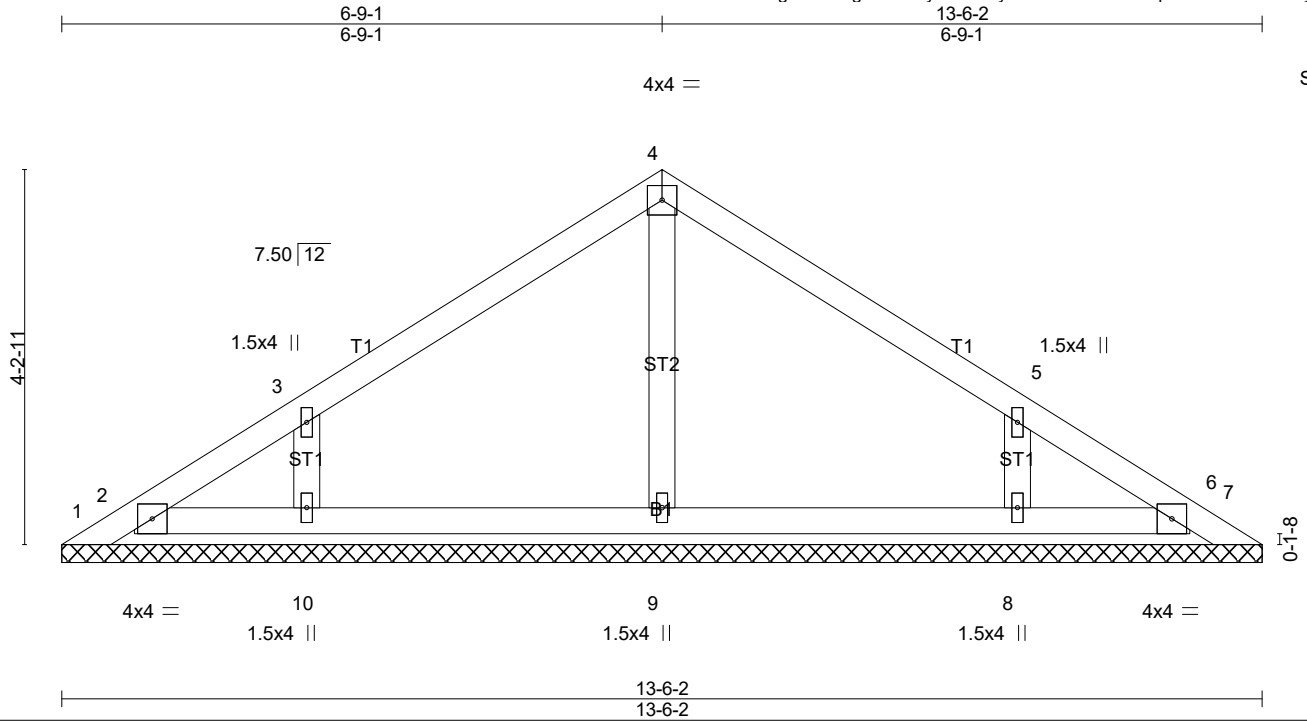
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=111mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=24ft; eave=2ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 7, 2, 6 except (jt=lb) 10=103, 8=103.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard

| | | | | | |
|--------------|--------------|---------------------|----------|----------|-------------------------------|
| Job 27453 | Truss PB3 | Truss Type GABLE | Qty 1 | Ply 1 | Freedpm Const\Wellons Realty\ |
|--------------|--------------|---------------------|----------|----------|-------------------------------|

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8.430 s Jan 20 2021 MiTek Industries, Inc. Wed Jul 12 14:06:58 2023 Page 1
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Scale = 1:25.9

| LOADING (psf) | SPACING- | CSI. | DEFL. | PLATES | GRIP |
|---------------|----------------------|----------|-------------------------|---------------|----------|
| TCLL 20.0 | 2-0-0 | TC 0.08 | in (loc) l/defl L/d | MT20 | 244/190 |
| TCDL 10.0 | Plate Grip DOL 1.15 | BC 0.12 | Vert(LL) n/a - n/a 999 | | |
| BCLL 0.0 * | Lumber DOL 1.15 | WB 0.06 | Vert(CT) n/a - n/a 999 | | |
| BCDL 10.0 | Rep Stress Incr YES | Matrix-S | Horz(CT) 0.00 7 n/a n/a | | |
| | Code IRC2018/TPI2014 | | | Weight: 50 lb | FT = 20% |

LUMBER-

TOP CHORD 2x4 SP 2400F 2.0E
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
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. All bearings 13-6-2.
(lb) - Max Horz 1=89(LC 7)
Max Uplift All uplift 100 lb or less at joint(s) 1, 7, 10, 8
Max Grav All reactions 250 lb or less at joint(s) 1, 7, 2, 6 except
9=263(LC 1), 10=306(LC 13), 8=305(LC 14)

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

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=111mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; 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) Gable requires continuous bottom chord bearing.
- 5) Gable studs spaced at 4-0-0 oc.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 7, 10, 8.
- 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

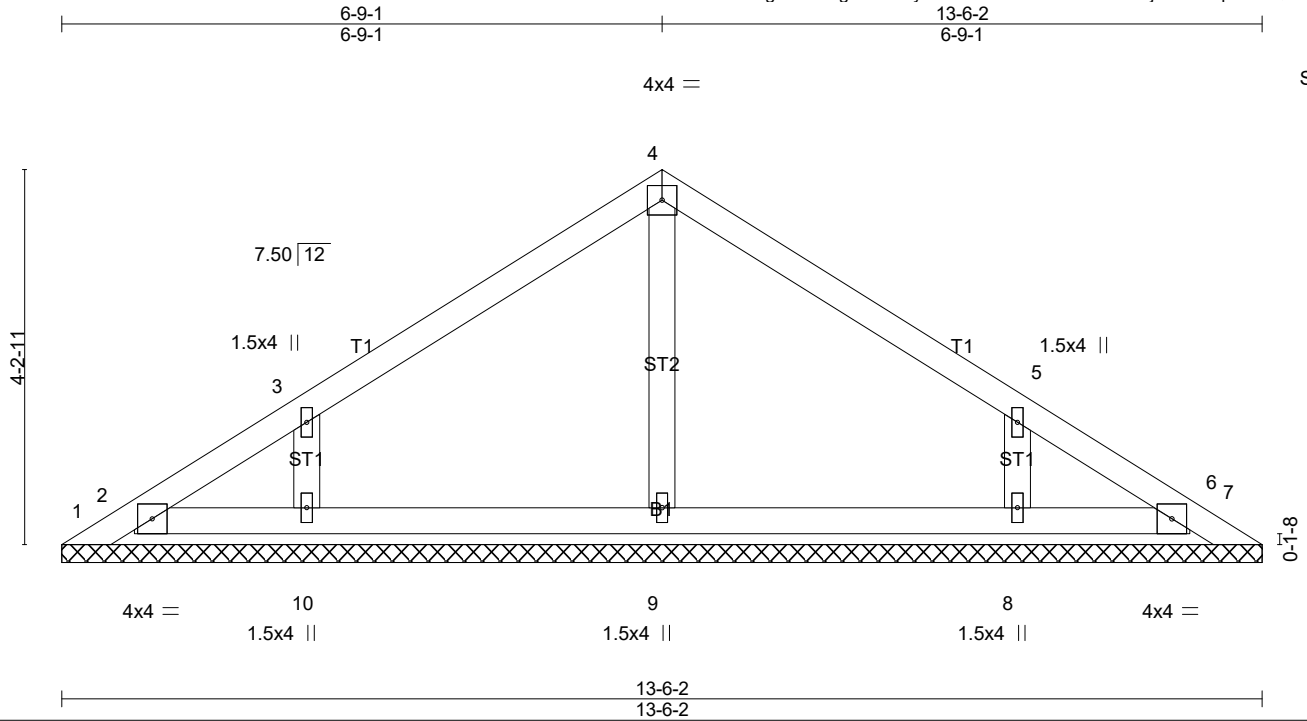
LOAD CASE(S) Standard

| | | | | | |
|--------------|--------------|---------------------|----------|----------|-------------------------------|
| Job 27453 | Truss PB4 | Truss Type GABLE | Qty 2 | Ply 1 | Freedpm Const\Wellons Realty\ |
|--------------|--------------|---------------------|----------|----------|-------------------------------|

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| LOADING (psf) | SPACING- | CSI. | DEFL. | PLATES | GRIP |
|---------------|----------------------|----------|-------------------------|---------------|----------|
| TCLL 20.0 | 2-0-0 | TC 0.08 | in (loc) l/defl L/d | MT20 | 244/190 |
| TCDL 10.0 | Plate Grip DOL 1.15 | BC 0.12 | Vert(LL) n/a - n/a 999 | | |
| BCLL 0.0 * | Lumber DOL 1.15 | WB 0.06 | Vert(CT) n/a - n/a 999 | | |
| BCDL 10.0 | Rep Stress Incr YES | Matrix-S | Horz(CT) 0.00 7 n/a n/a | | |
| | Code IRC2018/TPI2014 | | | Weight: 50 lb | FT = 20% |

LUMBER-

TOP CHORD 2x4 SP 2400F 2.0E
 BOT CHORD 2x4 SP No.2
 OTHERS 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
 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. All bearings 13-6-2.
 (lb) - Max Horz 1=89(LC 7)
 Max Uplift All uplift 100 lb or less at joint(s) 1, 7, 10, 8
 Max Grav All reactions 250 lb or less at joint(s) 1, 7, 2, 6 except
 9=263(LC 1), 10=306(LC 13), 8=305(LC 14)

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

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=111mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=24ft; eave=2ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; 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) Gable requires continuous bottom chord bearing.
- 5) Gable studs spaced at 4-0-0 oc.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 7, 10, 8.
- 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

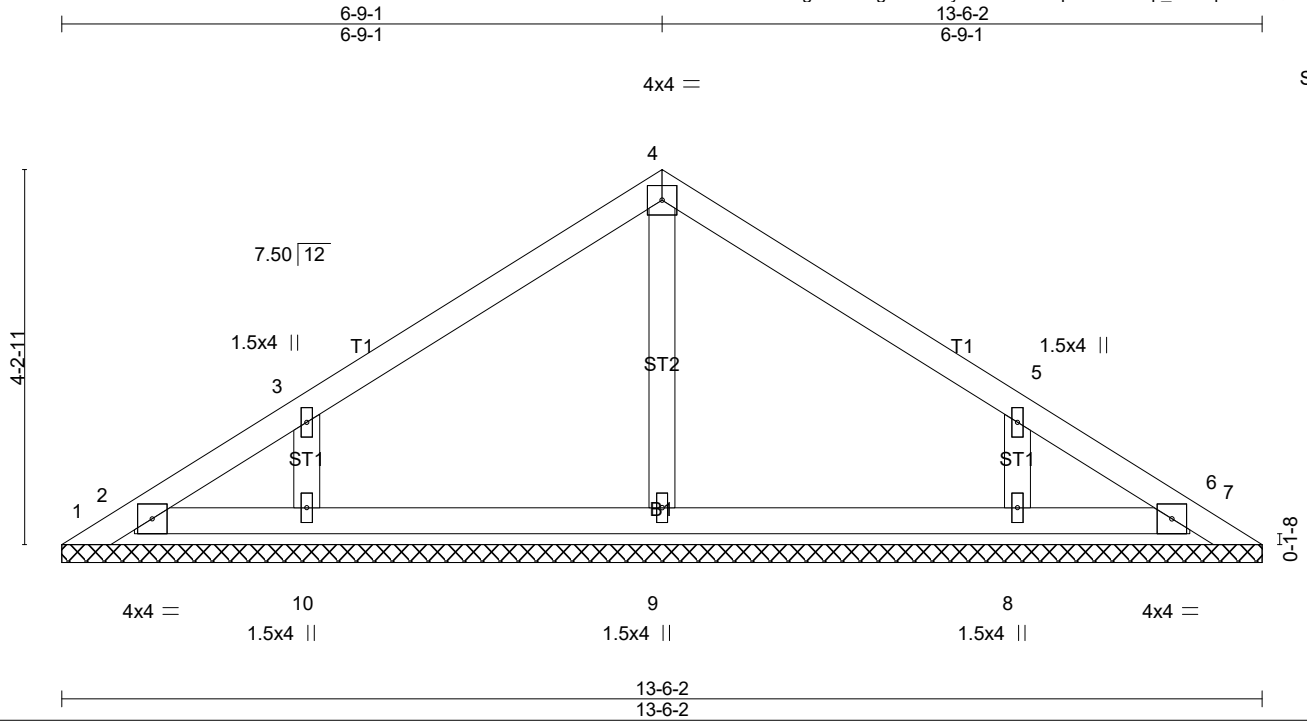
LOAD CASE(S) Standard

| | | | | | |
|--------------|--------------|---------------------|----------|----------|-------------------------------|
| Job 27453 | Truss PB5 | Truss Type GABLE | Qty 1 | Ply 2 | Freedpm Const\Wellons Realty\ |
|--------------|--------------|---------------------|----------|----------|-------------------------------|

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Scale = 1:25.9

| LOADING (psf) | SPACING- | CSI. | DEFL. | PLATES | GRIP |
|---------------|----------------------|----------|-------------------------|---------------|----------|
| TCLL 20.0 | 2-0-0 | TC 0.04 | in (loc) l/defl L/d | MT20 | 244/190 |
| TCDL 10.0 | Plate Grip DOL 1.15 | BC 0.06 | Vert(LL) n/a - n/a 999 | | |
| BCLL 0.0 * | Lumber DOL 1.15 | WB 0.02 | Vert(CT) n/a - n/a 999 | | |
| BCDL 10.0 | Rep Stress Incr YES | Matrix-S | Horz(CT) 0.00 7 n/a n/a | | |
| | Code IRC2018/TPI2014 | | | Weight: 99 lb | FT = 20% |

LUMBER-

TOP CHORD 2x4 SP 2400F 2.0E
 BOT CHORD 2x4 SP No.2
 OTHERS 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

All bearings 13-6-2.
 (lb) - Max Horz 1=89(LC 7)
 Max Uplift All uplift 100 lb or less at joint(s) 1, 7, 10, 8
 Max Grav All reactions 250 lb or less at joint(s) 1, 7, 2, 6 except 9=263(LC 1), 10=306(LC 13), 8=305(LC 14)

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

NOTES-

- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
 Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
 Bottom chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=111mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 7, 10, 8.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

Continued on page 2

| | | | | | |
|--------------|--------------|---------------------|----------|-----------------|---|
| Job 27453 | Truss PB5 | Truss Type GABLE | Qty 1 | Ply 2 | Freedpm Const\Wellons Realty\ Job Reference (optional) |
|--------------|--------------|---------------------|----------|-----------------|---|

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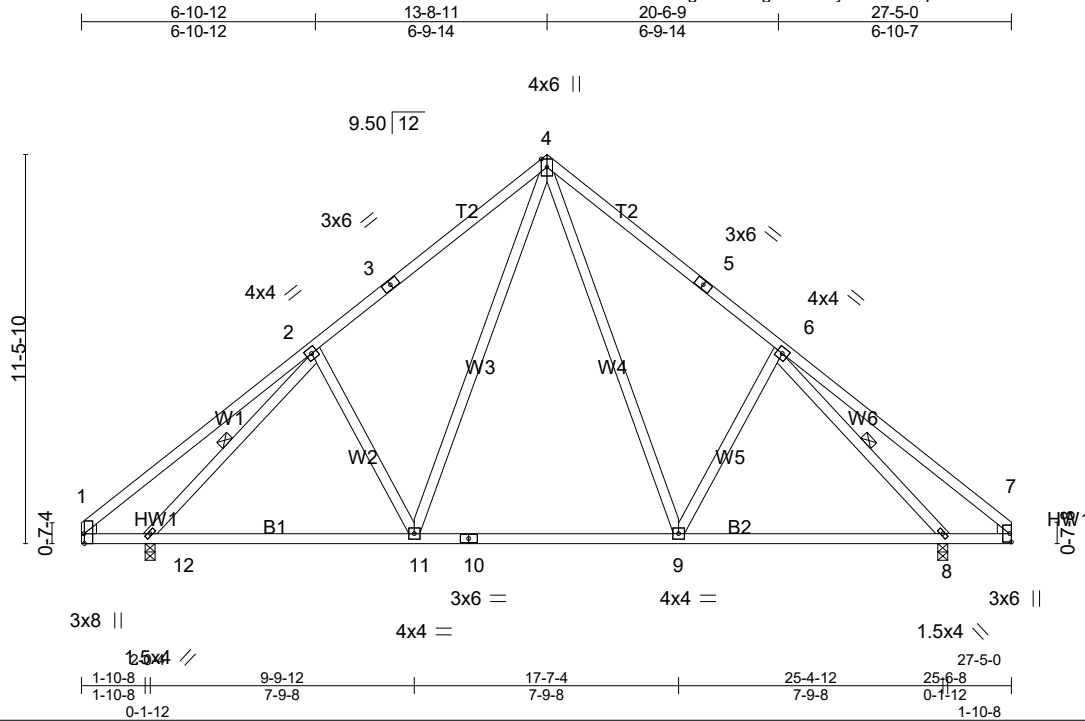
LOAD CASE(S) Standard

| | | | | | |
|--------------|-------------|----------------------|----------|----------|---|
| Job 27453 | Truss T1 | Truss Type Common | Qty 2 | Ply 1 | Freedpm Const\Wellons Realty\ Job Reference (optional) |
|--------------|-------------|----------------------|----------|----------|---|

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Scale = 1:67.9

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

| | | | | | |
|----------------------|-----------------------|-------------|----------------------------------|----------------|-------------|
| 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 0.22 | Vert(LL) -0.16 9-11 >999 360 | MT20 | 244/190 |
| TCDL 10.0 | Lumber DOL 1.15 | BC 0.30 | Vert(CT) -0.21 9-11 >999 240 | | |
| BCLL 0.0 * | Rep Stress Incr YES | WB 0.36 | Horz(CT) 0.02 8 n/a n/a | | |
| BCDL 10.0 | Code IRC2018/TPI2014 | Matrix-AS | Wind(LL) 0.03 9-11 >999 240 | Weight: 169 lb | FT = 20% |

LUMBER-

TOP CHORD 2x4 SP 2400F 2.0E
 BOT CHORD 2x4 SP 2400F 2.0E
 WEBS 2x4 SP No.3
 WEDGE
 Left: 2x4 SP No.3 , Right: 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied.
 BOT CHORD Rigid ceiling directly applied.
 WEBS 1 Row at midtr 2-12, 6-8

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

REACTIONS. (lb/size) 12=1097/0-3-8 (min. 0-1-8), 8=1097/0-3-8 (min. 0-1-8)
 Max Horz 12=-262(LC 6)
 Max Uplift 12=-127(LC 8), 8=-83(LC 8)

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

TOP CHORD 2-3=-972/182, 3-4=-856/229, 4-5=-853/230, 5-6=-970/183
 BOT CHORD 11-12=-31/866, 10-11=0/629, 9-10=0/629, 8-9=-5/714
 WEBS 4-11=-69/464, 4-9=-74/461, 2-12=-1111/129, 6-8=-1112/105

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=111mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=27ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; 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 with a clearance greater than 6-0-0 between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8 except (jt=lb) 12=127.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

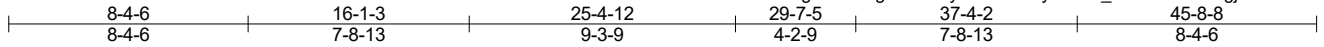
LOAD CASE(S) Standard

| | | | | | |
|--------------|-------------|---------------------|----------|----------|-------------------------------|
| Job 27453 | Truss T2 | Truss Type GABLE | Qty 1 | Ply 1 | Freedpm Const(Wellons Realty) |
|--------------|-------------|---------------------|----------|----------|-------------------------------|

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Scale = 1:80.5

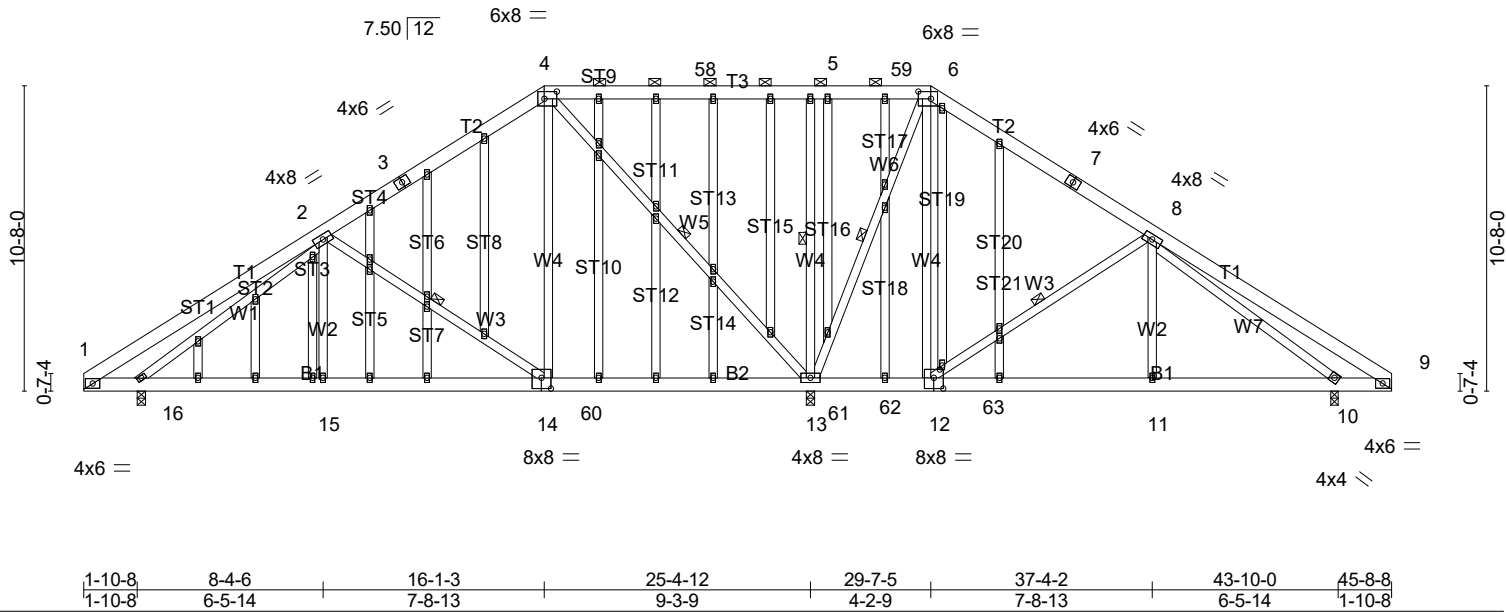


Plate Offsets (X,Y)-- [4:0-5-4,0-3-0], [6:0-5-4,0-3-0], [12:0-4-0,0-4-8], [14:0-4-0,0-4-8], [50:0-1-10,0-1-0]

| | | | | | |
|----------------------|----------------------|-------------|-------------------------------|----------------|-------------|
| LOADING (psf) | SPACING- | CSI. | DEFL. | PLATES | GRIP |
| TCLL 20.0 | 2-0-0 | TC 0.34 | in (loc) l/defl L/d | MT20 | 244/190 |
| TCDL 10.0 | Plate Grip DOL 1.15 | BC 0.31 | Vert(LL) -0.09 13-14 >999 360 | | |
| BCLL 0.0 * | Lumber DOL 1.15 | WB 0.98 | Vert(CT) -0.13 13-14 >999 240 | | |
| BCDL 10.0 | Rep Stress Incr YES | Matrix-AS | Horz(CT) 0.02 10 n/a n/a | | |
| | Code IRC2018/TPI2014 | | Wind(LL) 0.02 14-15 >999 240 | Weight: 523 lb | FT = 20% |

LUMBER-

TOP CHORD 2x6 SP No.1
 BOT CHORD 2x6 SP No.1
 WEBS 2x4 SP No.3
 OTHERS 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied, except 2-0-0 oc purlins (10-0-0 max.): 4-6.
 Rigid ceiling directly applied.
 BOT CHORD
 WEBS 1 Row at midpt 2-14, 4-13, 5-13, 6-13, 8-12

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

REACTIONS. (lb/size) 13=1997/0-3-8 (min. 0-2-8), 16=951/0-3-8 (min. 0-1-8), 10=709/0-3-0 (min. 0-1-8)
 Max Horz 16=-237(LC 6)
 Max Uplift 13=-159(LC 8), 16=-111(LC 8), 10=-51(LC 8)
 Max Grav 13=2106(LC 13), 16=982(LC 19), 10=748(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-307/59, 2-3=-603/105, 3-4=-502/150, 4-58=0/274, 5-58=0/274,
 5-59=0/274, 6-59=0/274
 BOT CHORD 15-16=-29/872, 14-15=-28/873, 14-60=0/509, 60-61=0/509, 13-61=0/509,
 11-12=0/479, 10-11=0/478
 WEBS 2-15=0/255, 2-14=-435/140, 4-14=0/570, 4-13=-1037/75, 5-13=-502/129,
 6-13=-709/65, 6-12=-23/409, 8-12=-558/148, 8-11=0/300, 2-16=-786/50,
 8-10=-512/2

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=111mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=46ft; eave=6ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; 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) Provide adequate drainage to prevent water ponding.
- 5) All plates are 2x4 MT20 unless otherwise indicated.
- 6) Gable studs spaced at 2-0-0 oc.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members, with BCDL = 10.0psf.

Continued on page 2

| | | | | | |
|-------|-------|------------|-----|-----|-------------------------------|
| Job | Truss | Truss Type | Qty | Ply | Freedpm Const\Wellons Realty\ |
| 27453 | T2 | GABLE | 1 | 1 | Job Reference (optional) |

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NOTES-

- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 10 except (jt=lb) 13=159, 16=111.
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 11) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

| | | | | | |
|--------------|-------------|------------------------------|----------|----------|-------------------------------|
| Job 27453 | Truss T3 | Truss Type Piggyback Base | Qty 2 | Ply 1 | Freedpm Const(Wellons Realty) |
|--------------|-------------|------------------------------|----------|----------|-------------------------------|

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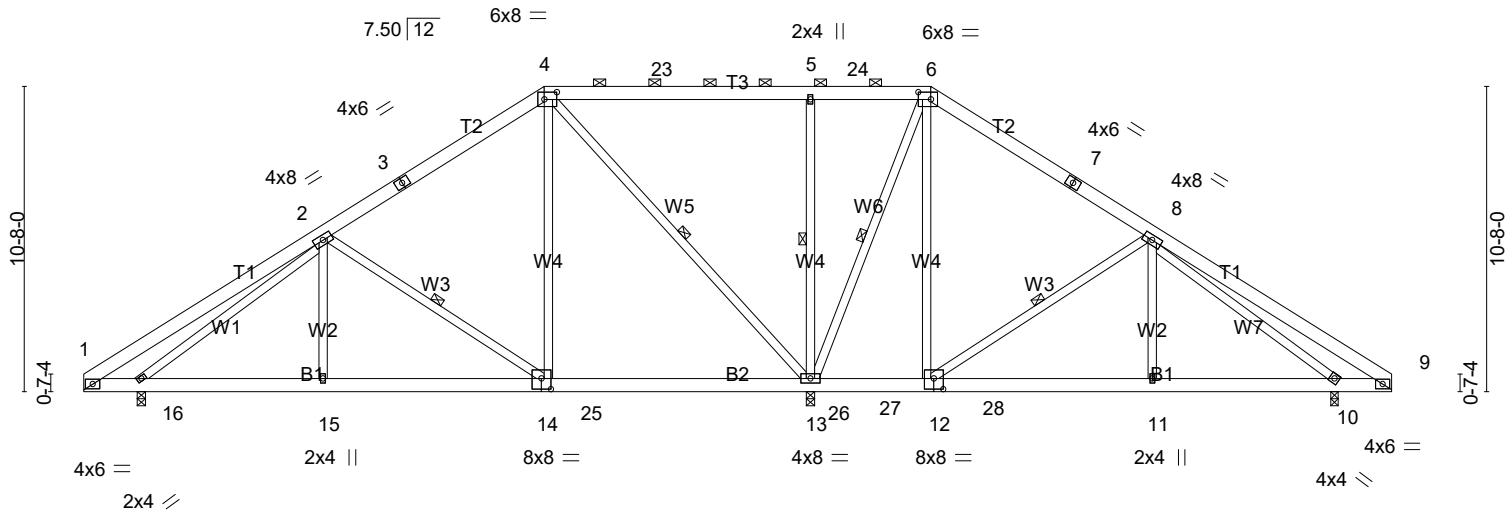


Plate Offsets (X,Y)-- [4:0-5-4,0-3-0], [6:0-5-4,0-3-0], [12:0-4-0,0-4-8], [14:0-4-0,0-4-8]

| | | | | | | | | | |
|----------------------|----------------------|-------|-------------|--------------|-------------|--------|-----|----------------|-------------|
| 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 0.34 | Vert(LL) | -0.09 13-14 | >999 | 360 | MT20 | 244/190 |
| TCDL 10.0 | Lumber DOL | 1.15 | BC 0.31 | Vert(CT) | -0.13 13-14 | >999 | 240 | | |
| BCLL 0.0 * | Rep Stress Incr | YES | WB 0.98 | Horz(CT) | 0.02 10 | n/a | n/a | | |
| BCDL 10.0 | Code IRC2018/TPI2014 | | Matrix-AS | Wind(LL) | 0.02 14-15 | >999 | 240 | Weight: 372 lb | FT = 20% |

LUMBER-
 TOP CHORD 2x6 SP No.1
 BOT CHORD 2x6 SP No.1
 WEBS 2x4 SP No.3

BRACING-
 TOP CHORD Structural wood sheathing directly applied, except 2-0-0 oc purlins (10-0-0 max.): 4-6.
 Rigid ceiling directly applied.
 BOT CHORD
 WEBS 1 Row at midpt 2-14, 4-13, 5-13, 6-13, 8-12

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

REACTIONS. (lb/size) 13=1997/0-3-8 (min. 0-2-8), 16=951/0-3-8 (min. 0-1-8), 10=709/0-3-0 (min. 0-1-8)
 Max Horz 16=-237(LC 6)
 Max Uplift 13=-159(LC 8), 16=-111(LC 8), 10=-51(LC 8)
 Max Grav 13=2106(LC 13), 16=982(LC 19), 10=748(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-307/59, 2-3=-603/105, 3-4=-502/150, 4-23=0/274, 5-23=0/274,
 5-24=0/274, 6-24=0/274
 BOT CHORD 15-16=-29/872, 14-15=-28/873, 14-25=0/509, 25-26=0/509, 13-26=0/509,
 11-12=0/479, 10-11=0/478
 WEBS 2-15=0/255, 2-14=-435/140, 4-14=0/570, 4-13=-1037/75, 5-13=-502/129,
 6-13=-709/65, 6-12=-23/409, 8-12=-558/148, 8-11=0/300, 2-16=-786/50,
 8-10=-512/2

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=111mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=46ft; eave=6ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) Provide adequate drainage to prevent water ponding.
 - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members, with BCDL = 10.0psf.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 10 except (jt=lb) 13=159, 16=111.
 - 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Continued on page 2

| | | | | | |
|-------|-------|----------------|-----|-----|-------------------------------|
| Job | Truss | Truss Type | Qty | Ply | Freedpm Const\Wellons Realty\ |
| 27453 | T3 | Piggyback Base | 2 | 1 | Job Reference (optional) |

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NOTES-

- 8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

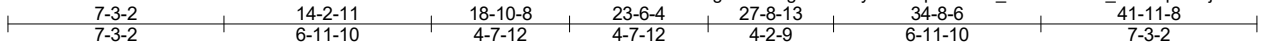
LOAD CASE(S) Standard

| | | | | | |
|--------------|-------------|-------------------------------------|----------|----------|-------------------------------|
| Job 27453 | Truss T4 | Truss Type Piggyback Base Girder | Qty 1 | Ply 2 | Freedpm Const(Wellons Realty) |
|--------------|-------------|-------------------------------------|----------|----------|-------------------------------|

C&R Building Supply, Autryville NC

8.430 s Jan 20 2021 MiTek Industries, Inc. Wed Jul 12 14:07:08 2023 Page 1

ID:wF46ioPgwNXurZgnFdDKky93cZ-1pZ5nYTK_Dnk8oBMS6_UuWtqG0Pj1SVRoubWrlYyoan



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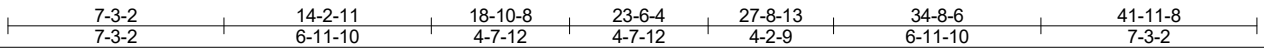
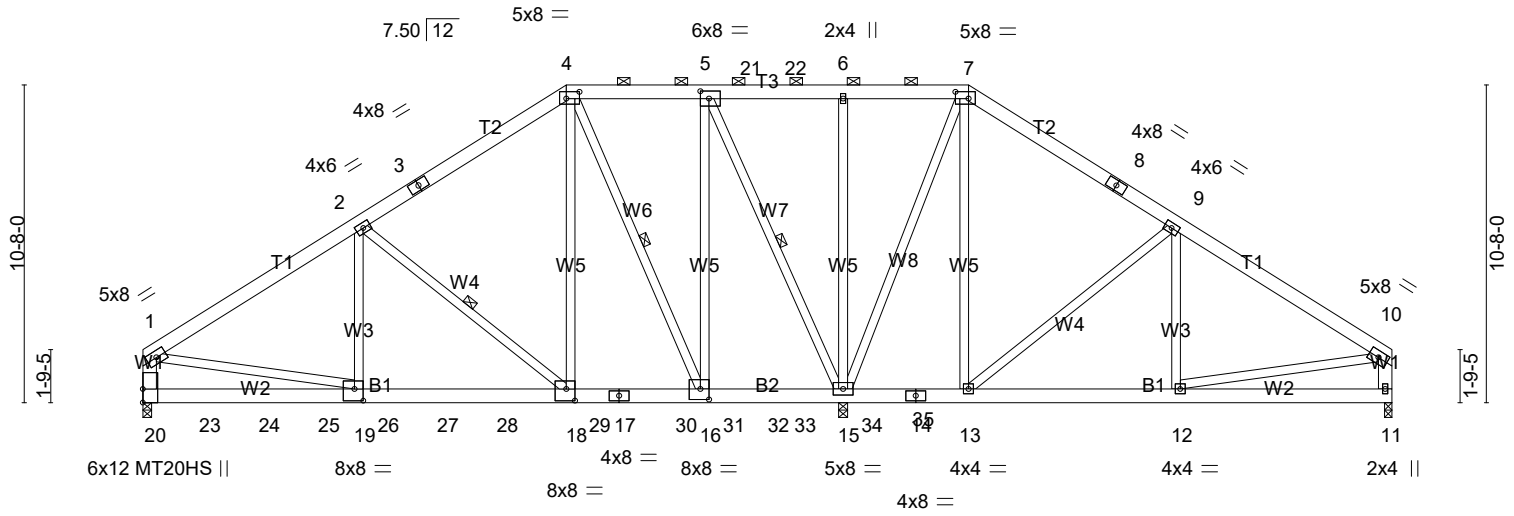


Plate Offsets (X,Y)-- [4:0-5-4,0-2-12], [5:0-3-8,0-3-0], [7:0-5-4,0-2-12], [16:0-3-8,0-4-4], [18:0-3-8,0-4-12], [19:0-3-8,0-4-12]

| 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 0.48 | Vert(LL) | -0.14 18-19 | >999 | 360 | MT20 | 244/190 |
| TCDL 10.0 | Lumber DOL | 1.15 | BC 0.74 | Vert(CT) | -0.29 18-19 | >969 | 240 | MT20HS | 187/143 |
| BCLL 0.0 * | Rep Stress Incr | NO | WB 0.85 | Horz(CT) | 0.03 11 | n/a | n/a | | |
| BCDL 10.0 | Code IRC2018/TPI2014 | | Matrix-MS | Wind(LL) | 0.11 18-19 | >999 | 240 | | |
| | | | | | | | | Weight: 763 lb | FT = 20% |

| LUMBER- | BRACING- |
|---|---|
| TOP CHORD 2x6 SP No.1 | TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 4-7. |
| BOT CHORD 2x6 SP 2400F 2.0E *Except* B2: 2x6 SP No.1 | BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 13-15. |
| WEBS 2x4 SP No.3 *Except* W5,W2: 2x4 SP No.2, W7: 2x4 SP 2400F 2.0E W1: 2x6 SP No.1 | WEBS 1 Row at midpt 2-18, 4-16, 5-15 |

REACTIONS. (lb/size) 20=6448/0-3-8 (min. 0-2-11), 15=8050/0-3-8 (req. 0-4-12), 11=459/0-3-0 (min. 0-1-8)
 Max Horz 20=-253(LC 6)
 Max Uplift 20=-452(LC 8), 15=-600(LC 8), 11=-144(LC 27)
 Max Grav 20=6466(LC 19), 15=8050(LC 1), 11=633(LC 14)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-7435/561, 2-3=-4514/389, 3-4=-4404/430, 4-5=-2330/301, 5-21=0/369,
 21-22=0/369, 6-22=0/369, 6-7=0/369, 7-8=-170/310, 8-9=-276/269,
 9-10=-675/226, 1-20=-5157/400, 10-11=-567/174
 BOT CHORD 20-23=-261/1118, 23-24=-261/1118, 24-25=-261/1118, 19-25=-261/1118,
 19-26=-424/6198, 26-27=-424/6198, 27-28=-424/6198, 28-29=-424/6198,
 18-29=-424/6198, 17-18=-231/3796, 17-30=-231/3796, 30-31=-231/3796,
 16-31=-231/3796, 16-32=-195/2330, 32-33=-195/2330, 33-34=-195/2330,
 15-34=-195/2330, 12-13=-77/456
 WEBS 2-19=-161/3212, 2-18=-3204/332, 4-18=-359/5256, 4-16=-3558/261,
 5-16=-344/5553, 5-15=-6433/471, 6-15=-314/78, 7-15=-702/129,
 7-13=-162/459, 9-13=-588/146, 9-12=0/313, 1-19=-299/5280, 10-12=-63/351

- NOTES-**
- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
 Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
 Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-7-0 oc.
 Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
 - All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
 - Unbalanced roof live loads have been considered for this design.

| | | | | | |
|--------------|-------------|-------------------------------------|----------|----------|---|
| Job 27453 | Truss T4 | Truss Type Piggyback Base Girder | Qty 1 | Ply 2 | Freedpm Const\Wellons Realty\ Job Reference (optional) |
|--------------|-------------|-------------------------------------|----------|----------|---|

C&R Building Supply, Autryville NC

8.430 s Jan 20 2021 MiTek Industries, Inc. Wed Jul 12 14:07:08 2023 Page 2
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NOTES-

- 4) Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=111mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=42ft; eave=5ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 5) Provide adequate drainage to prevent water ponding.
- 6) All plates are MT20 plates unless otherwise indicated.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members, with BCDL = 10.0psf.
- 9) WARNING: Required bearing size at joint(s) 15 greater than input bearing size.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 20=452, 15=600, 11=144.
- 11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 13) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1058 lb down and 83 lb up at 2-0-12, 1058 lb down and 83 lb up at 4-0-12, 1058 lb down and 83 lb up at 6-0-12, 1058 lb down and 83 lb up at 8-0-12, 1058 lb down and 83 lb up at 10-0-12, 1058 lb down and 83 lb up at 12-0-12, 1058 lb down and 83 lb up at 14-0-12, 1058 lb down and 83 lb up at 16-0-12, 1058 lb down and 83 lb up at 18-0-12, and 1058 lb down and 83 lb up at 20-0-12, and 1058 lb down and 83 lb up at 22-0-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
 - Uniform Loads (plf)
 - Vert: 1-4=-60, 4-7=-60, 7-10=-60, 11-20=-20
 - Concentrated Loads (lb)
 - Vert: 17=-1058(B) 23=-1058(B) 24=-1058(B) 25=-1058(B) 26=-1058(B) 27=-1058(B) 28=-1058(B) 29=-1058(B) 30=-1058(B) 32=-1058(B) 33=-1058(B)

| | | | | | |
|--------------|-------------|---------------------|----------|----------|-------------------------------|
| Job 27453 | Truss T5 | Truss Type GABLE | Qty 1 | Ply 1 | Freedpm Const(Wellons Realty) |
|--------------|-------------|---------------------|----------|----------|-------------------------------|

C&R Building Supply, Autryville NC

8.430 s Jan 20 2021 MiTek Industries, Inc. Wed Jul 12 14:07:09 2023 Page 1

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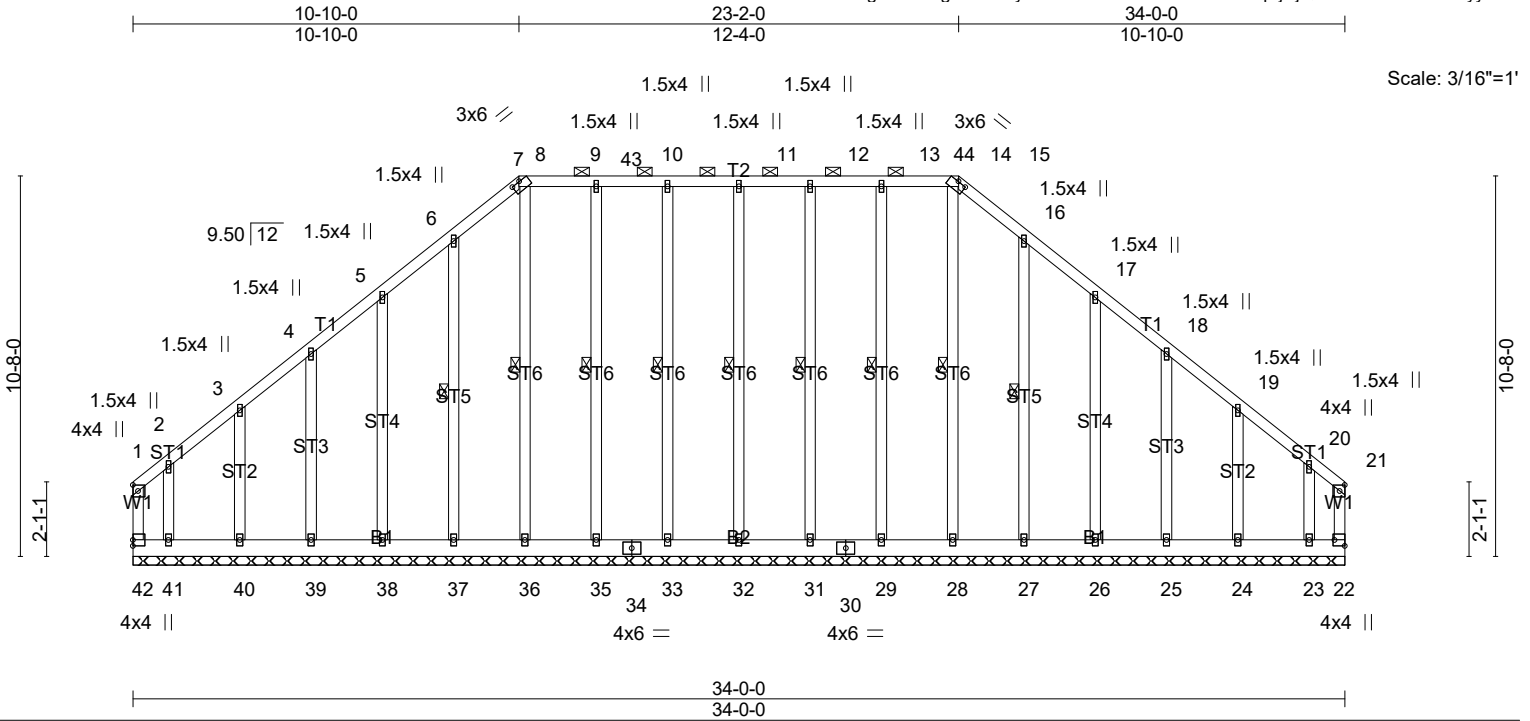


Plate Offsets (X,Y)-- [7:0-3-0,0-0-2], [15:0-3-0,0-0-2], [22:Edge,0-3-8]

| | | | | | |
|----------------------|-----------------------|-------------|---------------------------|----------------|-------------|
| LOADING (psf) | SPACING- 2-0-0 | CSI. | DEFL. in (loc) | PLATES | GRIP |
| TCLL 20.0 | Plate Grip DOL 1.15 | TC 0.41 | Vert(LL) n/a - n/a 999 | MT20 | 244/190 |
| TCDL 10.0 | Lumber DOL 1.15 | BC 0.08 | Vert(CT) n/a - n/a 999 | | |
| BCLL 0.0 * | Rep Stress Incr YES | WB 0.13 | Horz(CT) -0.00 22 n/a n/a | | |
| BCDL 10.0 | Code IRC2018/TPI2014 | Matrix-R | | Weight: 326 lb | FT = 20% |

LUMBER-
 TOP CHORD 2x4 SP 2400F 2.0E
 BOT CHORD 2x6 SP No.1
 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, and 2-0-0 oc purlins (6-0-0 max.): 7-15.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
 WEBS 1 Row at midpt 11-32, 10-33, 9-35, 8-36, 6-37, 12-31, 13-29, 14-28, 16-27

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

REACTIONS. All bearings 34-0-0.
 (lb) - Max Horz 42=-275(LC 6)
 Max Uplift All uplift 100 lb or less at joint(s) 32, 33, 35, 37, 38, 39, 40, 31, 29, 27, 26, 25, 24 except 42=-368(LC 6), 22=-340(LC 7), 41=-272(LC 7), 23=-250(LC 6)
 Max Grav All reactions 250 lb or less at joint(s) 32, 33, 35, 36, 37, 38, 39, 40, 31, 29, 28, 27, 26, 25, 24 except 42=391(LC 7), 22=363(LC 6), 41=418(LC 6), 23=396(LC 7)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 5-6=-85/256, 6-7=-69/305, 7-8=-29/261, 8-9=-29/261, 9-43=-29/261, 10-43=-29/261, 10-11=-29/261, 11-12=-29/261, 12-44=-29/261, 13-44=-29/261, 13-14=-29/261, 14-15=-29/261, 15-16=-60/305, 16-17=-76/256

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=111mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=34ft; eave=2ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - Provide adequate drainage to prevent water ponding.
 - 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).

Continued on page 2

| | | | | | |
|-------|-------|------------|-----|-----|-------------------------------|
| Job | Truss | Truss Type | Qty | Ply | Freedpm Const\Wellons Realty\ |
| 27453 | T5 | GABLE | 1 | 1 | Job Reference (optional) |

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8.430 s Jan 20 2021 MiTek Industries, Inc. Wed Jul 12 14:07:10 2023 Page 2
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NOTES-

- 8) Gable studs spaced at 2-0-0 oc.
- 9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 10) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members, with BCDL = 10.0psf.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 32, 33, 35, 37, 38, 39, 40, 31, 29, 27, 26, 25, 24 except (jt=lb) 42=368, 22=340, 41=272, 23=250.
- 12) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

| | | | | | |
|--------------|-------------|------------------------------|-----------|----------|-------------------------------|
| Job 27453 | Truss T6 | Truss Type Piggyback Base | Qty 10 | Ply 1 | Freedpm Const(Wellons Realty) |
|--------------|-------------|------------------------------|-----------|----------|-------------------------------|

C&R Building Supply, Autryville NC

8.430 s Jan 20 2021 MiTek Industries, Inc. Wed Jul 12 14:07:11 2023 Page 1

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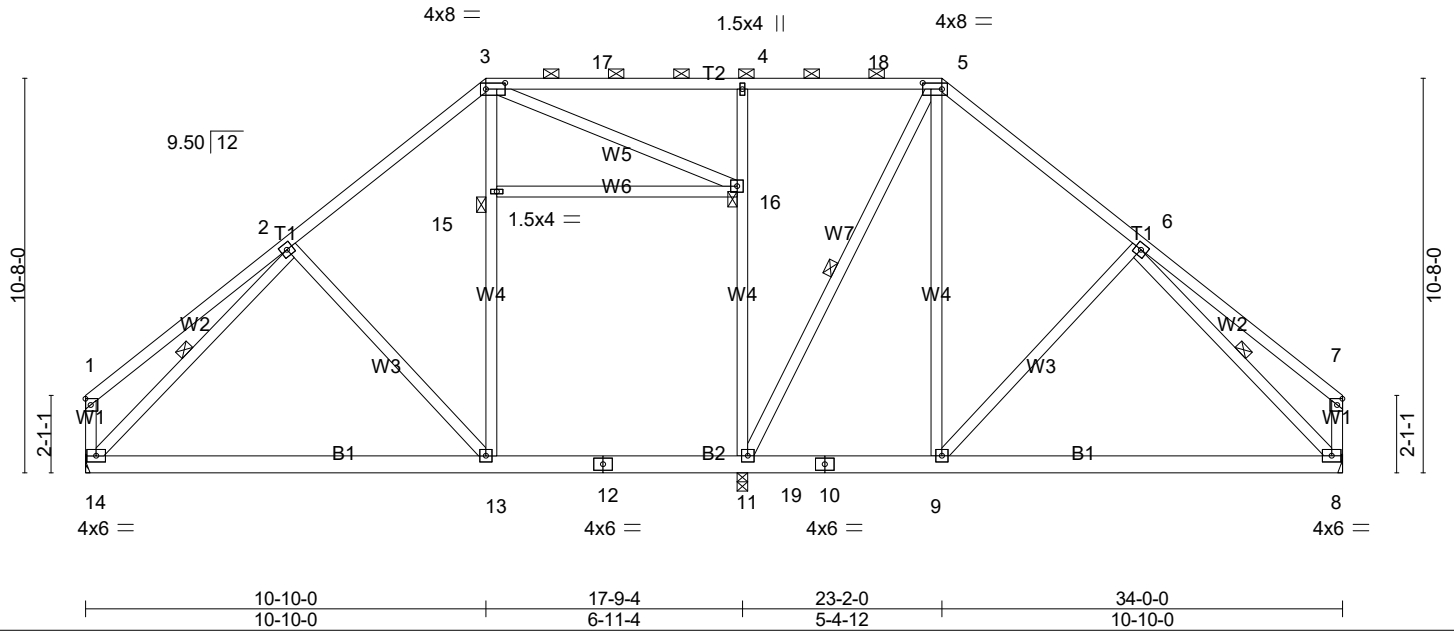


Plate Offsets (X,Y)-- [3:0-6-4,0-2-0], [5:0-6-4,0-2-0]

| | | | | | | | | | |
|----------------------|----------------------|-------|-------------|--------------|-------------|--------|-----|----------------|-------------|
| 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 0.72 | Vert(LL) | -0.09 13-14 | >999 | 360 | MT20 | 244/190 |
| TCDL 10.0 | Lumber DOL | 1.15 | BC 0.33 | Vert(CT) | -0.20 13-14 | >999 | 240 | | |
| BCLL 0.0 * | Rep Stress Incr | YES | WB 0.38 | Horz(CT) | 0.02 8 | n/a | n/a | | |
| BCDL 10.0 | Code IRC2018/TPI2014 | | Matrix-AS | Wind(LL) | 0.03 13-14 | >999 | 240 | Weight: 270 lb | FT = 20% |

LUMBER-

TOP CHORD 2x4 SP 2400F 2.0E
 BOT CHORD 2x6 SP No.1
 WEBS 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 3-5. Rigid ceiling directly applied.
 BOT CHORD
 WEBS 1 Row at midpt 5-11, 2-14, 6-8
 JOINTS 1 Brace at Jt(s): 15, 16

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

REACTIONS. (lb/size) 11=517/0-3-8 (min. 0-1-8), 14=1102/Mechanical, 8=1078/Mechanical
 Max Horz 14=-275(LC 6)
 Max Uplift 11=-127(LC 4), 14=-66(LC 8), 8=-63(LC 8)
 Max Grav 11=762(LC 14), 14=1163(LC 13), 8=1078(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-297/111, 2-3=-1133/175, 3-17=-821/181, 4-17=-821/181, 4-18=-831/182, 5-18=-831/182, 5-6=-1053/172, 6-7=-283/108, 1-14=-286/96, 7-8=-276/94
 BOT CHORD 13-14=-101/1000, 12-13=-18/912, 11-12=-18/912, 11-19=0/818, 10-19=0/818, 9-10=0/818, 8-9=0/803
 WEBS 13-15=0/378, 3-15=0/379, 11-16=-442/116, 4-16=-428/116, 5-9=0/367, 2-14=-1026/37, 6-8=-1035/37

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=111mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=34ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) All plates are 4x4 MT20 unless otherwise indicated.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members, with BCDL = 10.0psf.
- 7) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 14, 8 except (it=lb) 11=127.

Continued on page 2

| | | | | | |
|-------|-------|----------------|-----|-----|-------------------------------|
| Job | Truss | Truss Type | Qty | Ply | Freedpm Const\Wellons Realty\ |
| 27453 | T6 | Piggyback Base | 10 | 1 | Job Reference (optional) |

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8.430 s Jan 20 2021 MiTek Industries, Inc. Wed Jul 12 14:07:11 2023 Page 2
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NOTES-

- 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

| | | | | | |
|--------------|-------------|------------------------------|----------|----------|-------------------------------|
| Job 27453 | Truss T7 | Truss Type Piggyback Base | Qty 1 | Ply 1 | Freedpm Const\Wellons Realty\ |
|--------------|-------------|------------------------------|----------|----------|-------------------------------|

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8.430 s Jan 20 2021 MiTek Industries, Inc. Wed Jul 12 14:07:12 2023 Page 1

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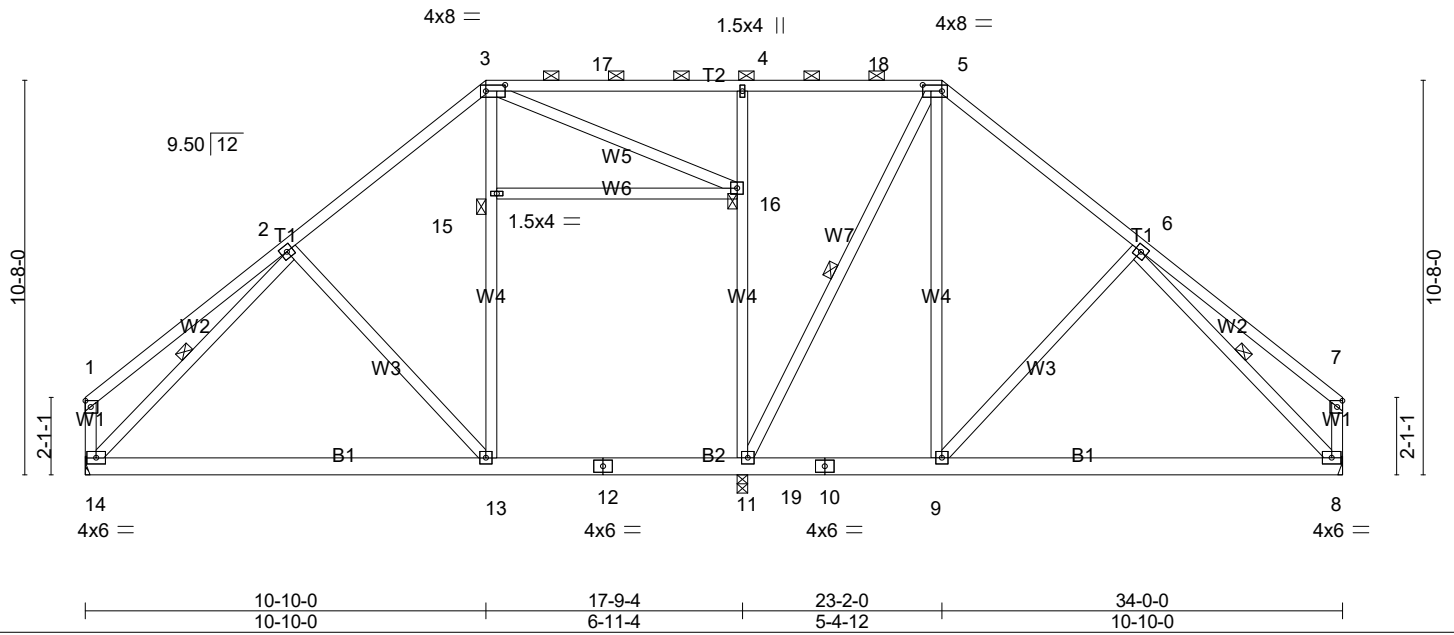


Plate Offsets (X,Y)-- [3:0-6-4,0-2-0], [5:0-6-4,0-2-0]

| LOADING (psf) | SPACING- | CSI. | DEFL. | in (loc) | l/defl | L/d | PLATES | GRIP |
|---------------|----------------------|-----------|----------|-------------|--------|-----|----------------|----------|
| TCLL 20.0 | 2-0-0 | TC 0.72 | Vert(LL) | -0.09 13-14 | >999 | 360 | MT20 | 244/190 |
| TCDL 10.0 | Plate Grip DOL 1.15 | BC 0.33 | Vert(CT) | -0.20 13-14 | >999 | 240 | | |
| BCLL 0.0 * | Lumber DOL 1.15 | WB 0.38 | Horz(CT) | 0.02 8 | n/a | n/a | | |
| BCDL 10.0 | Rep Stress Incr YES | Matrix-AS | Wind(LL) | 0.03 13-14 | >999 | 240 | | |
| | Code IRC2018/TPI2014 | | | | | | Weight: 270 lb | FT = 20% |

| LUMBER- | BRACING- |
|-----------------------------|---|
| TOP CHORD 2x4 SP 2400F 2.0E | TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 3-5. |
| BOT CHORD 2x6 SP No.1 | BOT CHORD Rigid ceiling directly applied. |
| WEBS 2x4 SP No.3 | WEBS 1 Row at midpt 5-11, 2-14, 6-8 |
| | JOINTS 1 Brace at Jt(s): 15, 16 |

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

REACTIONS. (lb/size) 11=517/0-3-8 (min. 0-1-8), 14=1102/Mechanical, 8=1078/Mechanical
 Max Horz 14=-275(LC 6)
 Max Uplift 11=-127(LC 4), 14=-66(LC 8), 8=-63(LC 8)
 Max Grav 11=762(LC 14), 14=1163(LC 13), 8=1078(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-297/111, 2-3=-1133/175, 3-17=-821/181, 4-17=-821/181, 4-18=-831/182, 5-18=-831/182, 5-6=-1053/172, 6-7=-283/108, 1-14=-286/96, 7-8=-276/94
 BOT CHORD 13-14=-101/1000, 12-13=-18/912, 11-12=-18/912, 11-19=0/818, 10-19=0/818, 9-10=0/818, 8-9=0/803
 WEBS 13-15=0/378, 3-15=0/379, 11-16=-442/116, 4-16=-428/116, 5-9=0/367, 2-14=-1026/37, 6-8=-1035/37

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=111mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=34ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) Provide adequate drainage to prevent water ponding.
 - 4) All plates are 4x4 MT20 unless otherwise indicated.
 - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members, with BCDL = 10.0psf.
 - 7) Refer to girder(s) for truss to truss connections.
 - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 14, 8 except (it=lb) 11=127.

Continued on page 2

| | | | | | |
|-------|-------|----------------|-----|-----|-------------------------------|
| Job | Truss | Truss Type | Qty | Ply | Freedpm Const\Wellons Realty\ |
| 27453 | T7 | Piggyback Base | 1 | 1 | Job Reference (optional) |

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8.430 s Jan 20 2021 MiTek Industries, Inc. Wed Jul 12 14:07:12 2023 Page 2
 ID:wFt46ioPgwNXurZgnFdDKky93cZ-vaocdwWE2Ri9dPV7hy3Q3L2Sb?tzzOq0jWZj_6yyoaj

NOTES-

- 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

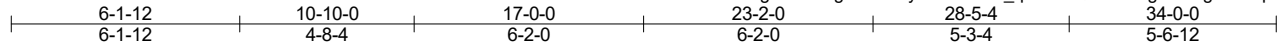
LOAD CASE(S) Standard

| | | | | | |
|--------------|-------------|------------------------------|----------|----------|-------------------------------|
| Job 27453 | Truss T8 | Truss Type Piggyback Base | Qty 1 | Ply 1 | Freedpm Const(Wellons Realty) |
|--------------|-------------|------------------------------|----------|----------|-------------------------------|

C&R Building Supply, Autryville NC

8.430 s Jan 20 2021 MiTek Industries, Inc. Wed Jul 12 14:07:13 2023 Page 1

ID:wFt46ioPgwnXurZgnFdDKKy93cZ-NmM_qGXsolQ0EZ4JFgafbzagePAPipVAyAlHXyYyoai



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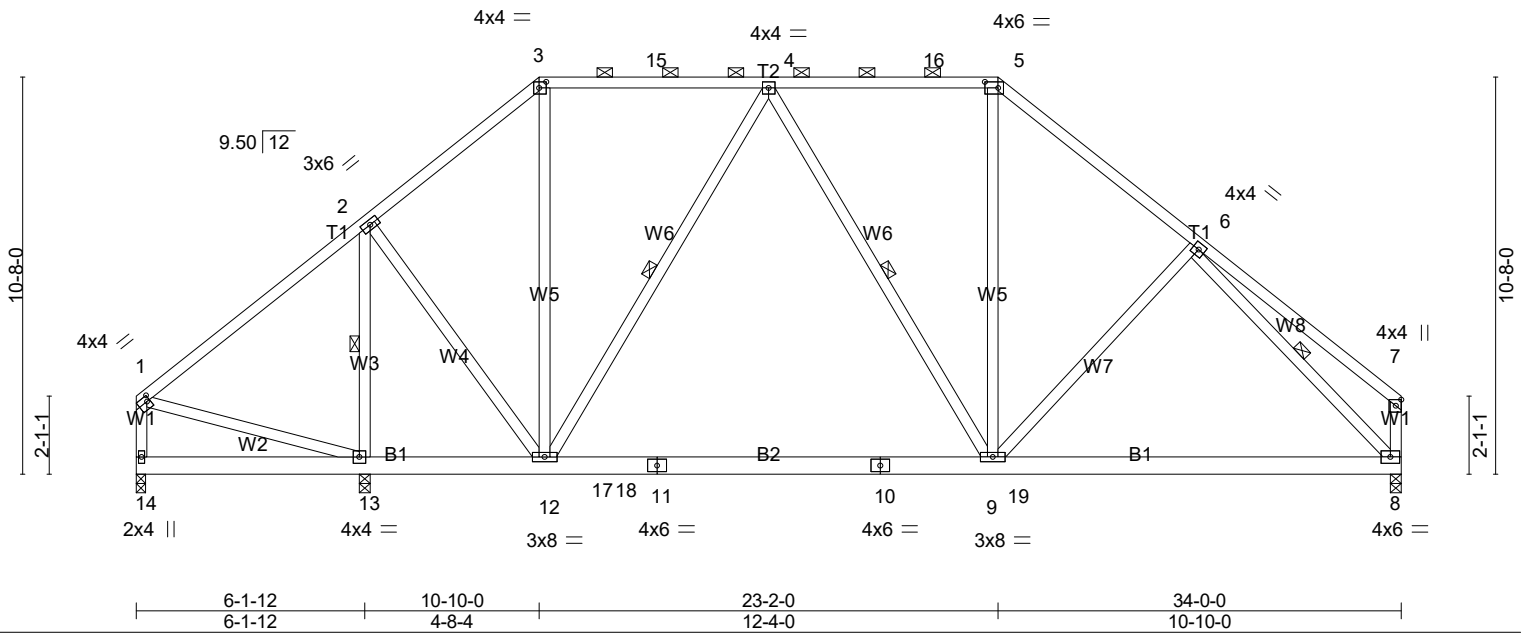


Plate Offsets (X,Y)-- [1:0-1-0,0-1-12], [3:0-2-4,0-2-0], [5:0-4-4,0-2-0]

| | | | | | |
|----------------------|----------------------|-------------|------------------------------|----------------|-------------|
| LOADING (psf) | SPACING- | CSI. | DEFL. | PLATES | GRIP |
| TCLL 20.0 | 2-0-0 | TC 0.57 | in (loc) l/defl L/d | MT20 | 244/190 |
| TCDL 10.0 | Plate Grip DOL 1.15 | BC 0.51 | Vert(LL) -0.25 9-12 >999 360 | | |
| BCLL 0.0 * | Lumber DOL 1.15 | WB 0.41 | Vert(CT) -0.35 9-12 >941 240 | | |
| BCDL 10.0 | Rep Stress Incr YES | Matrix-AS | Horz(CT) 0.02 8 n/a n/a | | |
| | Code IRC2018/TPI2014 | | Wind(LL) 0.02 9-12 >999 240 | Weight: 260 lb | FT = 20% |

LUMBER-
 TOP CHORD 2x4 SP 2400F 2.0E
 BOT CHORD 2x6 SP No.1
 WEBS 2x4 SP No.3

BRACING-
 TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 3-5.
 Rigid ceiling directly applied.
 BOT CHORD
 WEBS 1 Row at midpt 2-13, 4-12, 4-9, 6-8

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

REACTIONS. (lb/size) 14=343/0-3-0 (min. 0-1-8), 13=1224/0-3-8 (min. 0-1-9), 8=1131/0-3-8 (min. 0-1-8)
 Max Horz 14=-275(LC 6)
 Max Uplift 14=-8(LC 8), 13=-118(LC 8), 8=-83(LC 8)
 Max Grav 14=351(LC 19), 13=1332(LC 13), 8=1195(LC 14)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-288/55, 2-3=-841/179, 3-15=-606/175, 4-15=-606/175, 4-16=-908/195,
 5-16=-908/195, 5-6=-1217/193, 1-14=-293/42, 7-8=-255/100
 BOT CHORD 13-14=-244/306, 13-17=-142/250, 12-17=-142/250, 12-18=-20/886,
 11-18=-20/886, 10-11=-20/886, 10-19=-20/886, 9-19=-20/886, 8-9=-9/869
 WEBS 2-13=-1324/138, 2-12=0/801, 3-12=-15/253, 4-12=-530/88, 5-9=-11/403,
 6-8=-1168/49

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=111mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=34ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) Provide adequate drainage to prevent water ponding.
 - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members, with BCDL = 10.0psf.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 14, 8 except (jt=lb) 13=118.
 - 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

Continued on page 2

| | | | | | |
|-------|-------|----------------|-----|-----|-------------------------------|
| Job | Truss | Truss Type | Qty | Ply | Freedpm Const\Wellons Realty\ |
| 27453 | T8 | Piggyback Base | 1 | 1 | Job Reference (optional) |

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8.430 s Jan 20 2021 MiTek Industries, Inc. Wed Jul 12 14:07:13 2023 Page 2
 ID:wFt46ioPgwNXurZgnFdDKKy93cZ-NmM_qGXsolQ0EZ4JFgafbZagePAPipVAyAlHXYyoi

NOTES-

- 8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

| | | | | | |
|--------------|-------------|------------------------------|----------|----------|-------------------------------|
| Job 27453 | Truss T9 | Truss Type Piggyback Base | Qty 8 | Ply 1 | Freedpm Const\Wellons Realty\ |
|--------------|-------------|------------------------------|----------|----------|-------------------------------|

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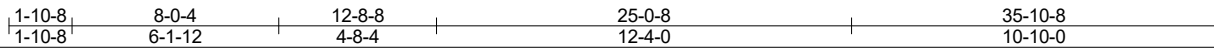
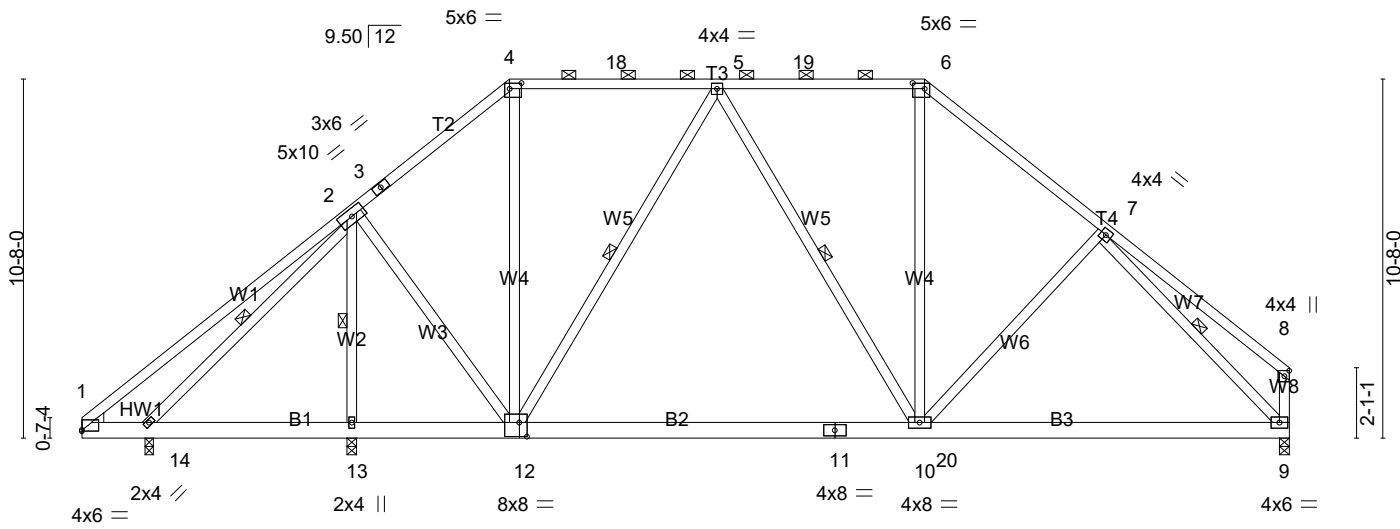


Plate Offsets (X,Y)-- [1:0-0-0,0-0-6], [4:0-4-4,0-2-0], [6:0-4-4,0-2-0], [12:0-2-12,0-5-0]

| | | | | | | | | | |
|----------------------|----------------------|-------|-------------|--------------|-------------|--------|-----|----------------|-------------|
| 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 0.58 | Vert(LL) | -0.24 10-12 | >999 | 360 | MT20 | 244/190 |
| TCDL 10.0 | Lumber DOL | 1.15 | BC 0.50 | Vert(CT) | -0.34 10-12 | >980 | 240 | | |
| BCLL 0.0 * | Rep Stress Incr | YES | WB 0.42 | Horz(CT) | 0.02 9 | n/a | n/a | | |
| BCDL 10.0 | Code IRC2018/TPI2014 | | Matrix-AS | Wind(LL) | 0.02 10-12 | >999 | 240 | Weight: 270 lb | FT = 20% |

LUMBER-
 TOP CHORD 2x4 SP 2400F 2.0E
 BOT CHORD 2x6 SP No.1
 WEBS 2x4 SP No.3
 WEDGE
 Left: 2x4 SP No.3

BRACING-
 TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 4-6.
 Rigid ceiling directly applied.
 BOT CHORD
 WEBS 1 Row at midpt 2-13, 5-12, 5-10, 2-14, 7-9

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

REACTIONS. (lb/size) 13=1201/0-3-8 (min. 0-1-8), 9=1133/0-3-8 (min. 0-1-8), 14=524/0-3-0 (min. 0-1-8)
 Max Horz 14=279(LC 7)
 Max Uplift 13=-90(LC 8), 9=-87(LC 8), 14=-82(LC 8)
 Max Grav 13=1295(LC 13), 9=1204(LC 14), 14=529(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-874/161, 3-4=-847/194, 4-18=-629/184, 5-18=-629/184, 5-19=-916/200,
 6-19=-916/200, 6-7=-1226/199, 8-9=-257/100
 BOT CHORD 13-14=-128/286, 12-13=-130/279, 11-12=-25/899, 11-20=-25/899,
 10-20=-25/899, 9-10=-12/875
 WEBS 2-13=-1305/142, 2-12=0/775, 4-12=-30/273, 5-12=-521/85, 6-10=-15/409,
 2-14=-272/33, 7-9=-1176/55

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=111mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=36ft; eave=5ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) Provide adequate drainage to prevent water ponding.
 - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members, with BCDL = 10.0psf.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 13, 9, 14.
 - 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

Continued on page 2

| | | | | | |
|-------|-------|----------------|-----|-----|-------------------------------|
| Job | Truss | Truss Type | Qty | Ply | Freedpm Const\Wellons Realty\ |
| 27453 | T9 | Piggyback Base | 8 | 1 | Job Reference (optional) |

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8.430 s Jan 20 2021 MiTek Industries, Inc. Wed Jul 12 14:07:14 2023 Page 2
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NOTES-

- 8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

| Job | Truss | Truss Type | Qty | Ply | Freedpm Const\Wellons Realty\ |
|-------|-------|----------------|-----|-----|-------------------------------|
| 27453 | T10 | Piggyback Base | 1 | 1 | Job Reference (optional) |

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8.430 s Jan 20 2021 MiTek Industries, Inc. Wed Jul 12 14:07:15 2023 Page 2
ID:wFt46ioPgwNXurZgnFdDKky93cZ-J9UkFyY7KMgkUsEiN4c7h_g01Cs1AjzTPUnNbRyyoag

NOTES-

- 8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

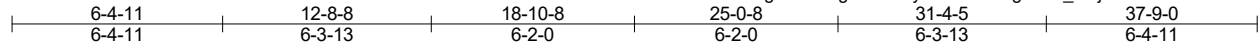
LOAD CASE(S) Standard

| | | | | | |
|--------------|--------------|------------------------------|----------|----------|-------------------------------|
| Job 27453 | Truss T11 | Truss Type Piggyback Base | Qty 6 | Ply 1 | Freedpm Const(Wellons Realty) |
|--------------|--------------|------------------------------|----------|----------|-------------------------------|

C&R Building Supply, Autryville NC

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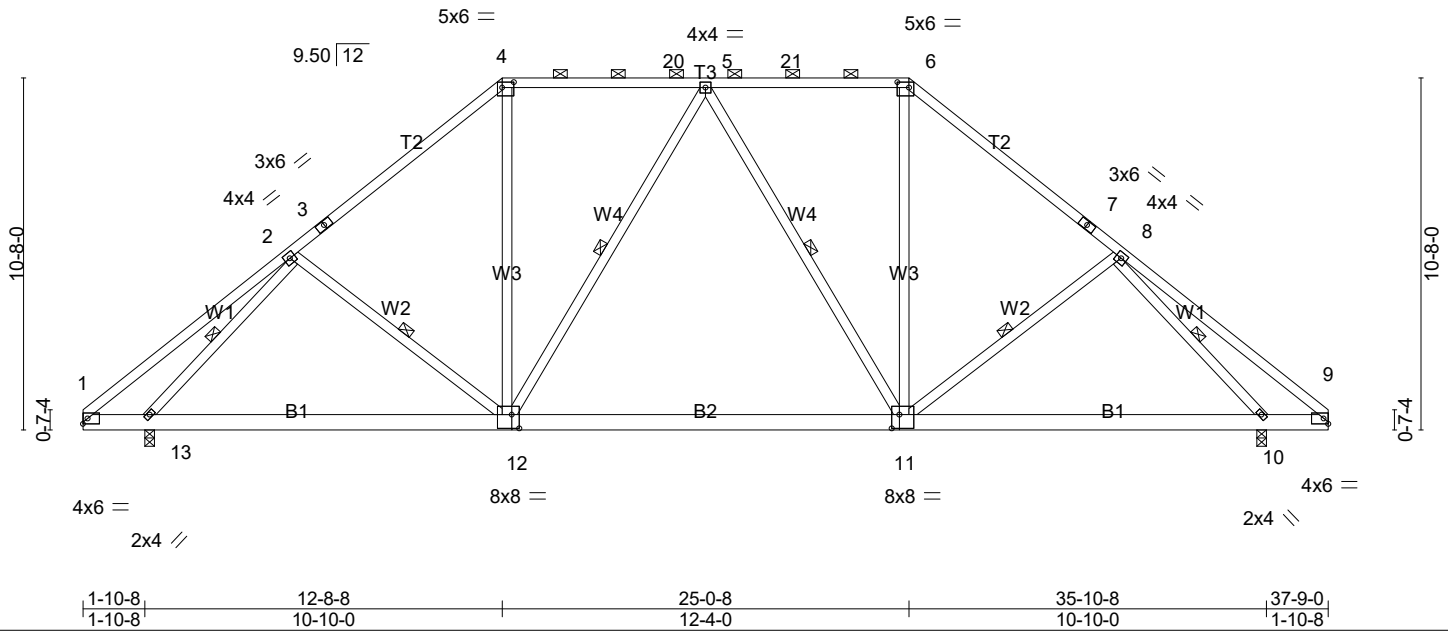


Plate Offsets (X,Y)-- [4:0-4-4,0-2-0], [6:0-4-4,0-2-0], [11:0-2-12,0-5-0], [12:0-2-12,0-5-0]

| | | | | | | | | |
|----------------------|----------------------|-------------|--------------|-------------|--------|-----|----------------|-------------|
| LOADING (psf) | SPACING- | CSI. | DEFL. | in (loc) | l/defl | L/d | PLATES | GRIP |
| TCLL 20.0 | 2-0-0 | TC 0.22 | Vert(LL) | -0.27 11-12 | >999 | 360 | MT20 | 244/190 |
| TCDL 10.0 | Plate Grip DOL 1.15 | BC 0.53 | Vert(CT) | -0.37 11-12 | >999 | 240 | | |
| BCLL 0.0 * | Lumber DOL 1.15 | WB 0.46 | Horz(CT) | 0.03 10 | n/a | n/a | | |
| BCDL 10.0 | Rep Stress Incr YES | Matrix-AS | Wind(LL) | 0.04 11-12 | >999 | 240 | Weight: 262 lb | FT = 20% |
| | Code IRC2018/TPI2014 | | | | | | | |

LUMBER-
 TOP CHORD 2x4 SP 2400F 2.0E
 BOT CHORD 2x6 SP No.1
 WEBS 2x4 SP No.3

BRACING-
 TOP CHORD Structural wood sheathing directly applied, except 2-0-0 oc purlins (6-0-0 max.): 4-6.
 Rigid ceiling directly applied.
 BOT CHORD
 WEBS 1 Row at midpt 2-12, 5-12, 5-11, 8-11, 2-13, 8-10

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

REACTIONS. (lb/size) 13=1510/0-3-8 (min. 0-1-13), 10=1510/0-3-8 (min. 0-1-13)
 Max Horz 13=-254(LC 6)
 Max Uplift 13=-157(LC 8), 10=-116(LC 8)
 Max Grav 13=1549(LC 13), 10=1549(LC 14)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-263/67, 2-3=-1538/169, 3-4=-1432/213, 4-20=-1161/220,
 5-20=-1161/220, 5-21=-1161/221, 6-21=-1161/221, 6-7=-1432/215,
 7-8=-1538/171, 8-9=-263/67
 BOT CHORD 12-13=-61/1263, 11-12=0/1297, 10-11=-46/1072
 WEBS 4-12=-6/588, 5-12=-311/92, 5-11=-311/92, 6-11=-8/587, 2-13=-1618/234,
 8-10=-1618/212

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=111mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=38ft; eave=5ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) Provide adequate drainage to prevent water ponding.
 - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members, with BCDL = 10.0psf.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 13=157, 10=116.
 - 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

Continued on page 2

| | | | | | |
|-------|-------|----------------|-----|-----|-------------------------------|
| Job | Truss | Truss Type | Qty | Ply | Freedpm Const\Wellons Realty\ |
| 27453 | T11 | Piggyback Base | 6 | 1 | Job Reference (optional) |

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8.430 s Jan 20 2021 MiTek Industries, Inc. Wed Jul 12 14:07:17 2023 Page 2
ID:wFt46ioPgwNXurZgnFdDKKy93cZ-GYcVgdaNs_wSjAN4UVebmPIR40X2ecrtoGUgJyyoae

NOTES-

- 8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

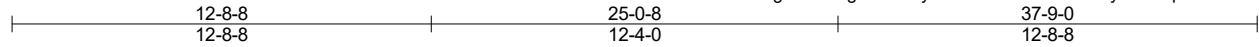
LOAD CASE(S) Standard

| | | | | | |
|--------------|--------------|---------------------|----------|----------|-------------------------------|
| Job 27453 | Truss T12 | Truss Type GABLE | Qty 1 | Ply 1 | Freedpm Const(Wellons Realty) |
|--------------|--------------|---------------------|----------|----------|-------------------------------|

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8.430 s Jan 20 2021 MiTek Industries, Inc. Wed Jul 12 14:07:18 2023 Page 1

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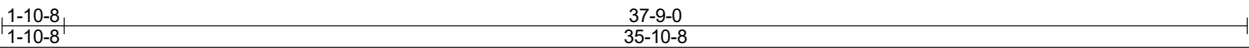
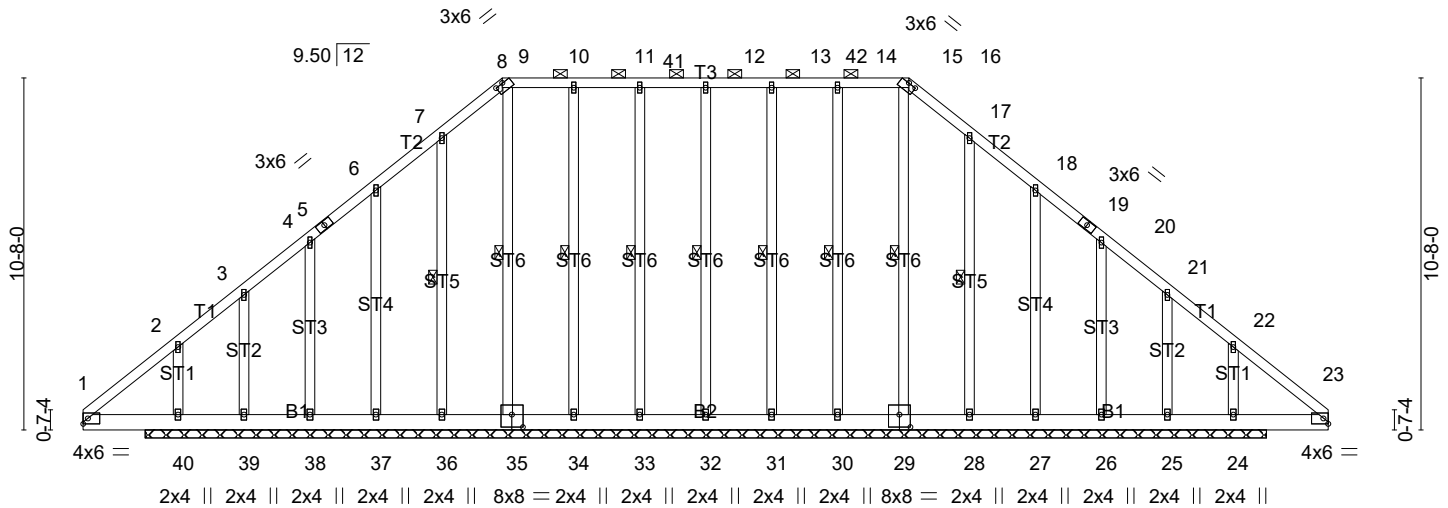


Plate Offsets (X,Y)-- [8:0-3-0,0-0-2], [16:0-3-0,0-0-2], [29:0-4-0,0-4-8], [35:0-4-0,0-4-8]

| | | | | | | | | |
|----------------------|----------------------|-------------|--------------|----------|--------|-----|----------------|-------------|
| LOADING (psf) | SPACING- | CSI. | DEFL. | in (loc) | l/defl | L/d | PLATES | GRIP |
| TCLL 20.0 | 2-0-0 | TC 0.07 | Vert(LL) | n/a | - | n/a | MT20 | 244/190 |
| TCDL 10.0 | Plate Grip DOL 1.15 | BC 0.15 | Vert(CT) | n/a | - | n/a | | |
| BCLL 0.0 * | Lumber DOL 1.15 | WB 0.13 | Horz(CT) | -0.00 | 24 | n/a | | |
| BCDL 10.0 | Rep Stress Incr YES | Matrix-S | | | | | Weight: 338 lb | FT = 20% |
| | Code IRC2018/TPI2014 | | | | | | | |

LUMBER-
 TOP CHORD 2x4 SP 2400F 2.0E
 BOT CHORD 2x6 SP No.1
 OTHERS 2x4 SP No.3

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 10-0-0 oc purlins, except 2-0-0 oc purlins (10-0-0 max.): 8-16.
 BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
 WEBS 1 Row at midpt 12-32, 11-33, 10-34, 9-35, 7-36, 13-31, 14-30, 15-29, 17-28

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

REACTIONS. All bearings 34-0-0.
 (lb) - Max Horz 40=259(LC 7)
 Max Uplift All uplift 100 lb or less at joint(s) 32, 33, 34, 36, 37, 38, 31, 30, 28, 27, 26 except 39=-207(LC 7), 40=-159(LC 4), 25=-190(LC 6), 24=-149(LC 5)
 Max Grav All reactions 250 lb or less at joint(s) 32, 33, 34, 36, 37, 38, 31, 30, 28, 27, 26 except 35=261(LC 13), 39=337(LC 6), 40=419(LC 14), 29=256(LC 14), 25=321(LC 7), 24=405(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 7-8=-6/282, 16-17=0/281

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=111mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=38ft; eave=2ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; 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) Provide adequate drainage to prevent water ponding.
 - 5) All plates are 1.5x4 MT20 unless otherwise indicated.
 - 6) Gable studs spaced at 2-0-0 oc.
 - 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members, with BCDL = 10.0psf.

Continued on page 2

| | | | | | |
|-------|-------|------------|-----|-----|-------------------------------|
| Job | Truss | Truss Type | Qty | Ply | Freedpm Const\Wellons Realty\ |
| 27453 | T12 | GABLE | 1 | 1 | Job Reference (optional) |

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8.430 s Jan 20 2021 MiTek Industries, Inc. Wed Jul 12 14:07:18 2023 Page 2
 ID:wFt46ioPgwNXurZgnFdDKky93cZ-kkAtuzb?dH2JLKyH2DAqlcleCQzFN8Bv6S01Clyoad

NOTES-

- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 32, 33, 34, 36, 37, 38, 31, 30, 28, 27, 26 except (jt=lb) 39=207, 40=159, 25=190, 24=149.
- 10) Non Standard bearing condition. Review required.
- 11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

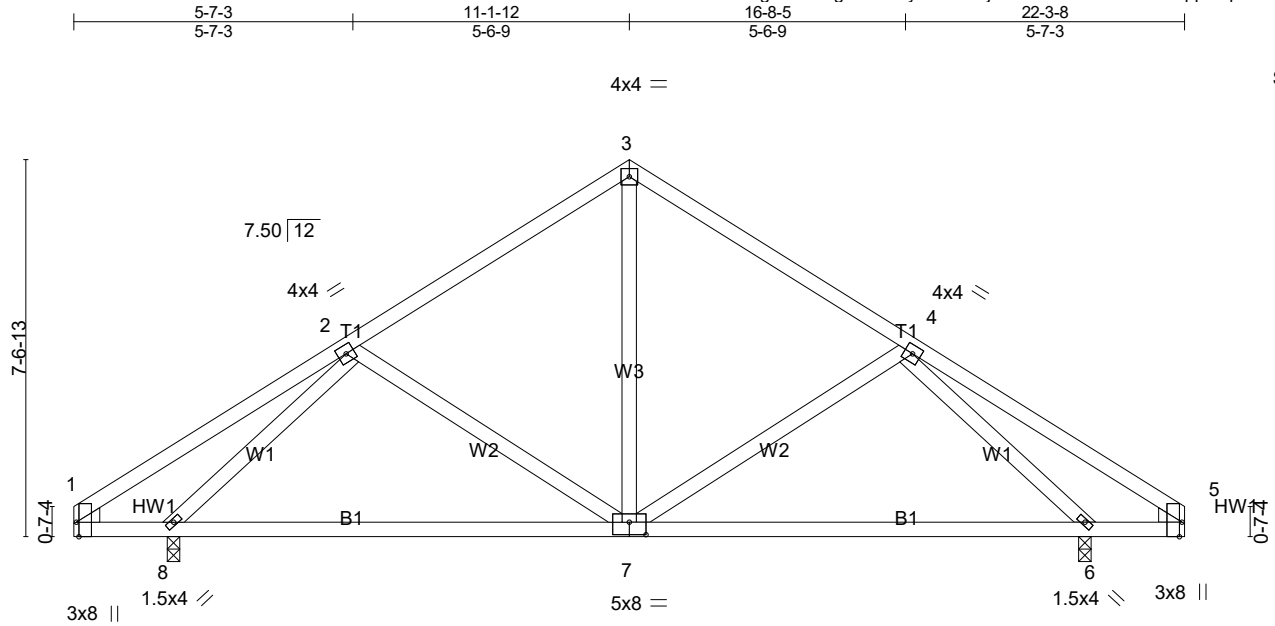
LOAD CASE(S) Standard

| | | | | | |
|--------------|--------------|----------------------|----------|----------|-------------------------------|
| Job 27453 | Truss T13 | Truss Type Common | Qty 1 | Ply 1 | Freedpm Const\Wellons Realty\ |
|--------------|--------------|----------------------|----------|----------|-------------------------------|

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8.430 s Jan 20 2021 MiTek Industries, Inc. Wed Jul 12 14:07:19 2023 Page 1

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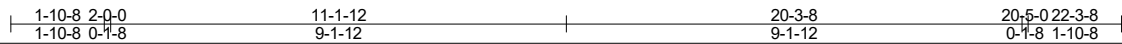


Plate Offsets (X,Y)-- [1:0-3-8,Edge], [5:0-3-8,Edge], [7:0-4-0,0-3-0]

| | | | | | | | | | | |
|----------------------|----------------------|-------|-------------|--------------|-------|-------|--------|-----|----------------|-------------|
| 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 0.31 | Vert(LL) | -0.08 | 7-8 | >999 | 360 | MT20 | 244/190 |
| TCDL 10.0 | Lumber DOL | 1.15 | BC 0.32 | Vert(CT) | -0.16 | 7-8 | >999 | 240 | | |
| BCLL 0.0 * | Rep Stress Incr | YES | WB 0.44 | Horz(CT) | 0.01 | 6 | n/a | n/a | | |
| BCDL 10.0 | Code IRC2018/TPI2014 | | Matrix-AS | Wind(LL) | 0.01 | 7 | >999 | 240 | Weight: 119 lb | FT = 20% |

LUMBER-

TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP 2400F 2.0E
 WEBS 2x4 SP No.3
 WEDGE
 Left: 2x4 SP No.3 , Right: 2x4 SP No.3

BRACING-

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

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

REACTIONS. (lb/size) 8=892/0-3-0 (min. 0-1-8), 6=892/0-3-0 (min. 0-1-8)
 Max Horz 8=-154(LC 6)
 Max Uplift 8=-111(LC 8), 6=-67(LC 8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-675/118, 3-4=-675/118
 BOT CHORD 7-8=-23/616, 6-7=-29/575
 WEBS 3-7=-9/376, 2-8=-832/177, 4-6=-832/150

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=111mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; 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 with a clearance greater than 6-0-0 between the bottom chord and any other members.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6 except (jt=lb) 8=111.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard

| | | | | | |
|--------------|--------------|----------------------|----------|----------|-------------------------------|
| Job 27453 | Truss T14 | Truss Type Common | Qty 1 | Ply 1 | Freedpm Const\Wellons Realty\ |
|--------------|--------------|----------------------|----------|----------|-------------------------------|

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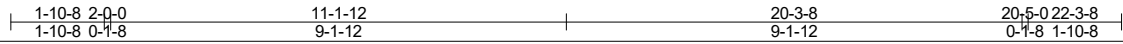
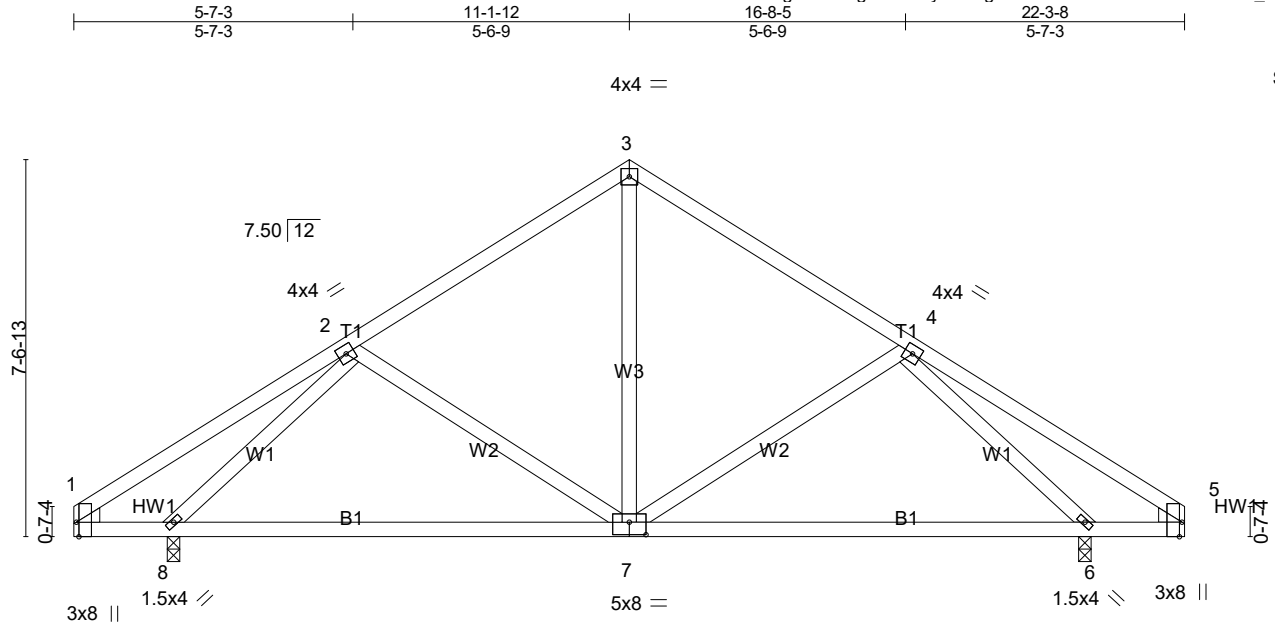


Plate Offsets (X,Y)-- [1:0-3-8,Edge], [5:0-3-8,Edge], [7:0-4-0,0-3-0]

| | | | | | | | | | | |
|----------------------|----------------------|-------|-------------|--------------|-------|-------|--------|-----|----------------|-------------|
| 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 0.31 | Vert(LL) | -0.08 | 7-8 | >999 | 360 | MT20 | 244/190 |
| TCDL 10.0 | Lumber DOL | 1.15 | BC 0.32 | Vert(CT) | -0.16 | 7-8 | >999 | 240 | | |
| BCLL 0.0 * | Rep Stress Incr | YES | WB 0.44 | Horz(CT) | 0.01 | 6 | n/a | n/a | | |
| BCDL 10.0 | Code IRC2018/TPI2014 | | Matrix-AS | Wind(LL) | 0.01 | 7 | >999 | 240 | Weight: 119 lb | FT = 20% |

LUMBER-
 TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP 2400F 2.0E
 WEBS 2x4 SP No.3
 WEDGE
 Left: 2x4 SP No.3 , Right: 2x4 SP No.3

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

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

REACTIONS. (lb/size) 8=892/0-3-0 (min. 0-1-8), 6=892/0-3-0 (min. 0-1-8)
 Max Horz 8=-154(LC 6)
 Max Uplift 8=-111(LC 8), 6=-67(LC 8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-675/118, 3-4=-675/118
 BOT CHORD 7-8=-23/616, 6-7=-29/575
 WEBS 3-7=-9/376, 2-8=-832/177, 4-6=-832/150

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=111mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; 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 with a clearance greater than 6-0-0 between the bottom chord and any other members.
 - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6 except (jt=lb) 8=111.
 - 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard

| | | | | | |
|--------------|-------------|----------------------|----------|----------|-------------------------------|
| Job 27453 | Truss V1 | Truss Type Valley | Qty 1 | Ply 1 | Freedpm Const\Wellons Realty\ |
|--------------|-------------|----------------------|----------|----------|-------------------------------|

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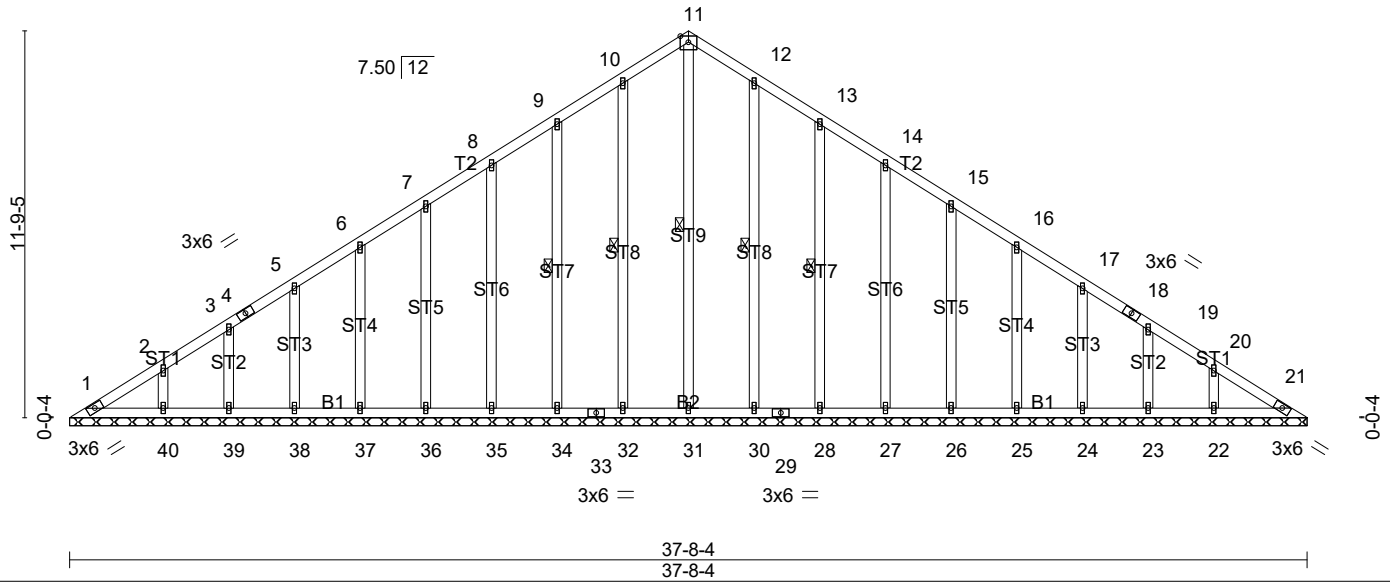
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18-10-2
18-10-2

37-8-4
18-10-2

5x6 =

Scale = 1:70.2



| LOADING (psf) | SPACING- | CSI. | DEFL. | PLATES | GRIP |
|---------------|----------------------|----------|--------------------------|----------------|----------|
| TCLL 20.0 | 2-0-0 | TC 0.03 | in (loc) l/defl L/d | MT20 | 244/190 |
| TCDL 10.0 | Plate Grip DOL 1.15 | BC 0.04 | Vert(LL) n/a - n/a 999 | | |
| BCLL 0.0 * | Lumber DOL 1.15 | WB 0.14 | Vert(CT) n/a - n/a 999 | | |
| BCDL 10.0 | Rep Stress Incr YES | Matrix-S | Horz(CT) 0.01 21 n/a n/a | | |
| | Code IRC2018/TPI2014 | | | Weight: 270 lb | FT = 20% |

LUMBER-
 TOP CHORD 2x4 SP 2400F 2.0E
 BOT CHORD 2x4 SP No.2
 OTHERS 2x4 SP No.3

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
 WEBS 1 Row at midpt 11-31, 10-32, 9-34, 12-30, 13-28

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

REACTIONS. All bearings 37-8-4.
 (lb) - Max Horz 1=260(LC 7)
 Max Uplift All uplift 100 lb or less at joint(s) 1, 32, 34, 35, 36, 37, 38,
 39, 40, 30, 28, 27, 26, 25, 24, 23, 22
 Max Grav All reactions 250 lb or less at joint(s) 1, 31, 32, 34, 35, 36,
 37, 38, 39, 40, 30, 28, 27, 26, 25, 24, 23, 22, 21

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

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=111mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=38ft; eave=5ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - All plates are 1.5x4 MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - 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 with a clearance greater than 6-0-0 between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 32, 34, 35, 36, 37, 38, 39, 40, 30, 28, 27, 26, 25, 24, 23, 22.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

| | | | | | |
|--------------|-------------|----------------------|----------|----------|-------------------------------|
| Job 27453 | Truss V2 | Truss Type Valley | Qty 1 | Ply 1 | Freedpm Const\Wellons Realty\ |
|--------------|-------------|----------------------|----------|----------|-------------------------------|

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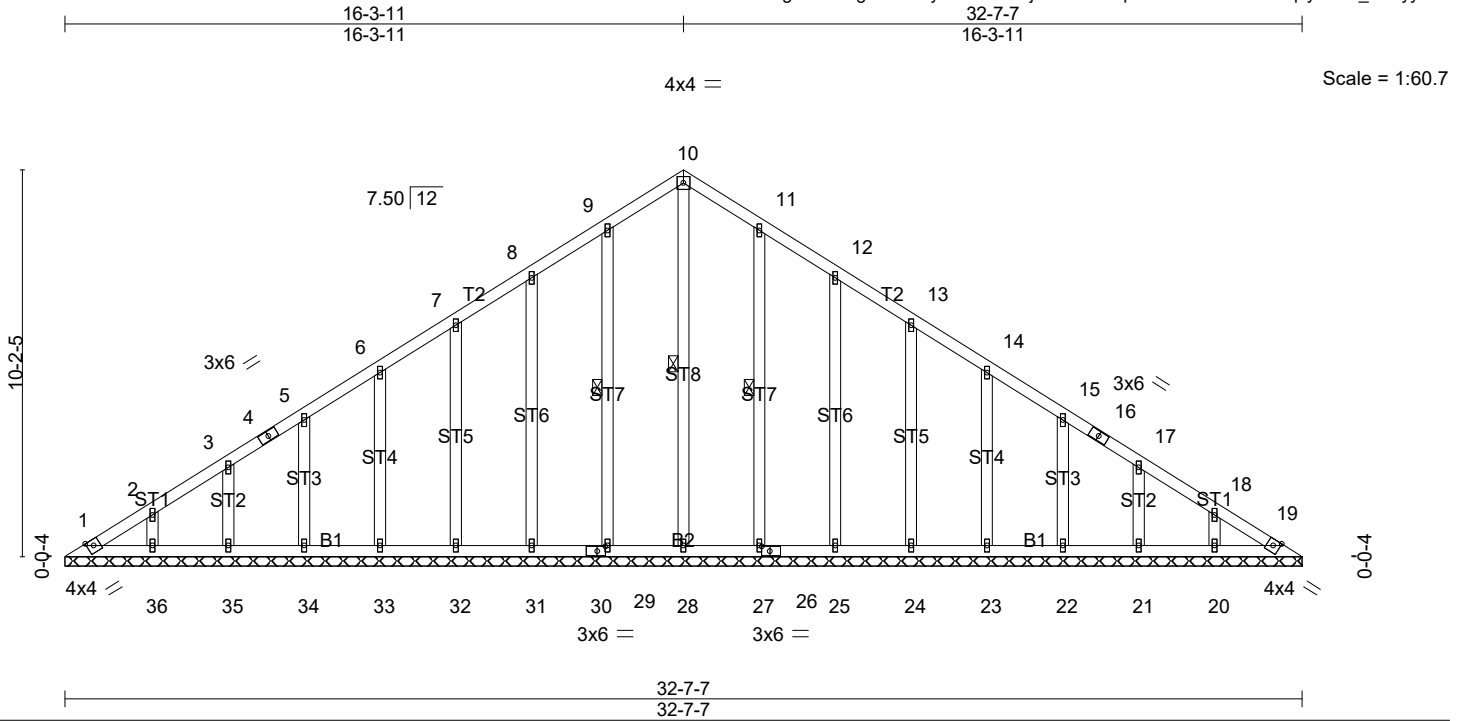


Plate Offsets (X,Y)-- [26:0-2-9,0-1-8], [30:0-2-9,0-1-8]

| LOADING (psf) | SPACING- | CSI. | DEFL. | in (loc) | l/defl | L/d | PLATES | GRIP |
|---------------|----------------------|----------|----------|----------|--------|-----|----------------|----------|
| TCLL 20.0 | 2-0-0 | TC 0.02 | Vert(LL) | n/a | - | n/a | MT20 | 244/190 |
| TCDL 10.0 | Plate Grip DOL 1.15 | BC 0.04 | Vert(CT) | n/a | - | n/a | | |
| BCLL 0.0 * | Lumber DOL 1.15 | WB 0.13 | Horz(CT) | 0.01 | 19 | n/a | | |
| BCDL 10.0 | Rep Stress Incr YES | Matrix-S | | | | | | |
| | Code IRC2018/TPI2014 | | | | | | Weight: 215 lb | FT = 20% |

LUMBER-
 TOP CHORD 2x4 SP 2400F 2.0E
 BOT CHORD 2x4 SP No.2
 OTHERS 2x4 SP No.3

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
 WEBS 1 Row at midpt 10-28, 9-29, 11-27

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

REACTIONS. All bearings 32-7-7.
 (lb) - Max Horz 1=223(LC 7)
 Max Uplift All uplift 100 lb or less at joint(s) 1, 29, 31, 32, 33, 34, 35, 36, 27, 25, 24, 23, 22, 21, 20, 19
 Max Grav All reactions 250 lb or less at joint(s) 1, 28, 29, 31, 32, 33, 34, 35, 36, 27, 25, 24, 23, 22, 21, 20, 19

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

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=111mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=33ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) All plates are 1.5x4 MT20 unless otherwise indicated.
 - 4) Gable requires continuous bottom chord bearing.
 - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members, with BCDL = 10.0psf.
 - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 29, 31, 32, 33, 34, 35, 36, 27, 25, 24, 23, 22, 21, 20, 19.
 - 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

| | | | | | |
|--------------|-------------|----------------------|----------|----------|-------------------------------|
| Job 27453 | Truss V3 | Truss Type Valley | Qty 1 | Ply 1 | Freedpm Const\Wellons Realty\ |
|--------------|-------------|----------------------|----------|----------|-------------------------------|

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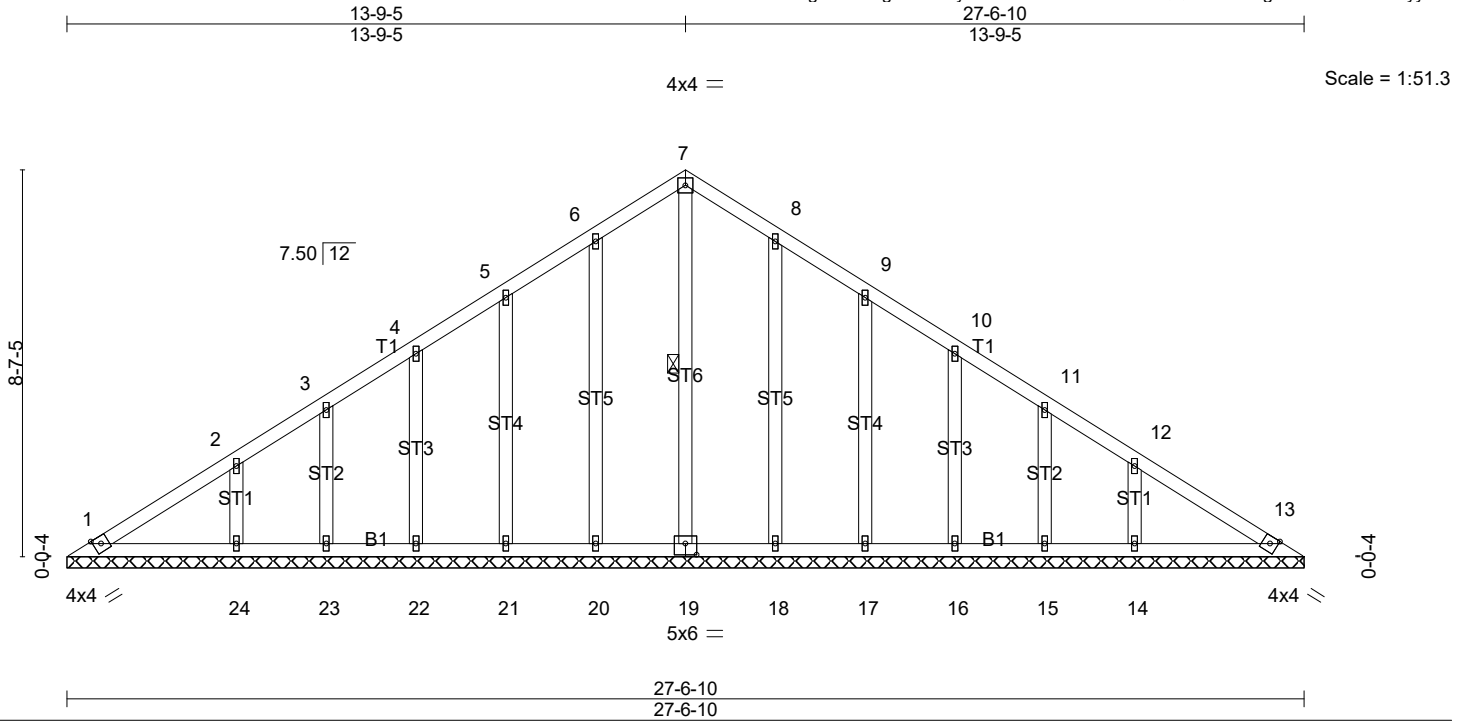


Plate Offsets (X,Y)-- [19:0-3-0,0-3-0]

| LOADING (psf) | SPACING- | CSI. | DEFL. | in (loc) | l/defl | L/d | PLATES | GRIP |
|---------------|------------------------------|----------|----------|----------|--------|-----|----------------|----------|
| TCLL 20.0 | 2-0-0 Plate Grip DOL 1.15 | TC 0.06 | Vert(LL) | n/a | - | n/a | MT20 | 244/190 |
| TCDL 10.0 | Lumber DOL 1.15 | BC 0.08 | Vert(CT) | n/a | - | n/a | | |
| BCLL 0.0 * | Rep Stress Incr YES | WB 0.13 | Horz(CT) | 0.00 | 13 | n/a | | |
| BCDL 10.0 | Code IRC2018/TPI2014 | Matrix-S | | | | | Weight: 163 lb | FT = 20% |

LUMBER-
 TOP CHORD 2x4 SP 2400F 2.0E
 BOT CHORD 2x4 SP No.2
 OTHERS 2x4 SP No.3

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
 WEBS 1 Row at midpt 7-19

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

REACTIONS. All bearings 27-6-10.
 (lb) - Max Horz 1=-185(LC 6)
 Max Uplift All uplift 100 lb or less at joint(s) 1, 20, 21, 22, 23, 24, 18, 17, 16, 15, 14
 Max Grav All reactions 250 lb or less at joint(s) 1, 13, 19, 20, 21, 22, 23, 18, 17, 16, 15 except 24=273(LC 13), 14=273(LC 14)

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

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=111mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=27ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) All plates are 1.5x4 MT20 unless otherwise indicated.
 - 4) Gable requires continuous bottom chord bearing.
 - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members, with BCDL = 10.0psf.
 - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 20, 21, 22, 23, 24, 18, 17, 16, 15, 14.
 - 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

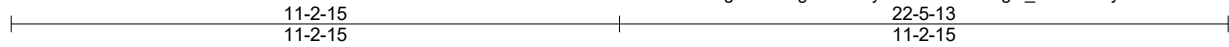
LOAD CASE(S) Standard

| | | | | | |
|--------------|-------------|----------------------|----------|----------|---|
| Job 27453 | Truss V4 | Truss Type Valley | Qty 1 | Ply 1 | Freedpm Const\Wellons Realty\ Job Reference (optional) |
|--------------|-------------|----------------------|----------|----------|---|

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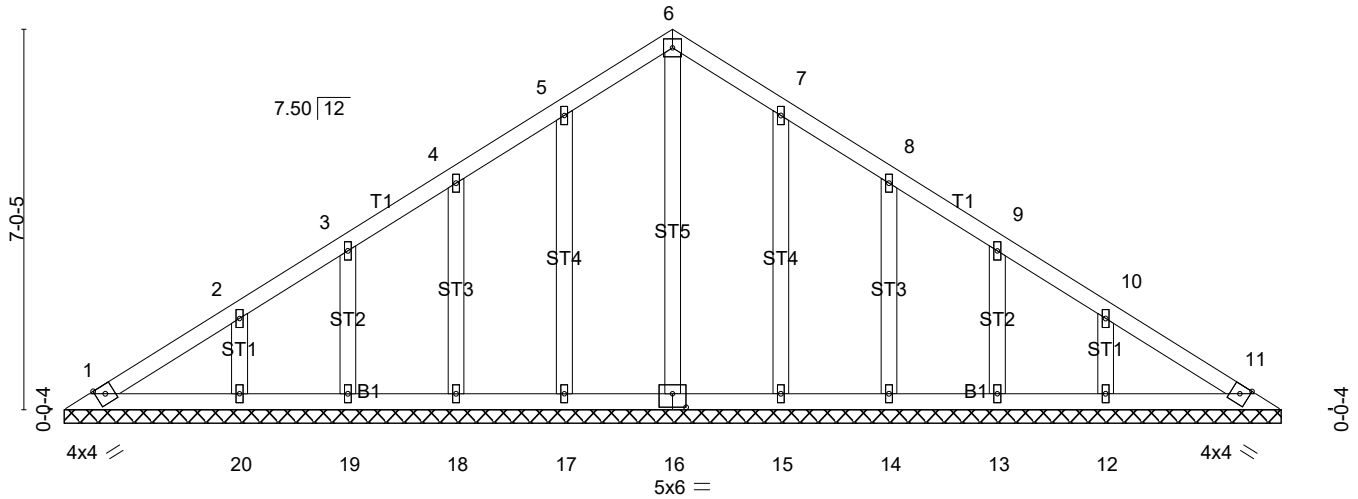
8.430 s Jan 20 2021 MiTek Industries, Inc. Wed Jul 12 14:07:25 2023 Page 1

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4x4 =

Scale = 1:42.6



22-5-13
22-5-13

Plate Offsets (X,Y)-- [16:0-3-0,0-3-0]

| 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 0.04 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| TCDL 10.0 | Lumber DOL | 1.15 | BC 0.05 | Vert(CT) | n/a | - | n/a | 999 | | |
| BCLL 0.0 * | Rep Stress Incr | YES | WB 0.08 | Horz(CT) | 0.00 | 11 | n/a | n/a | | |
| BCDL 10.0 | Code IRC2018/TPI2014 | | Matrix-S | | | | | | Weight: 120 lb | FT = 20% |

LUMBER-

TOP CHORD 2x4 SP 2400F 2.0E
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
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.

All bearings 22-5-13.
(lb) - Max Horz 1=148(LC 7)
Max Uplift All uplift 100 lb or less at joint(s) 17, 18, 19, 20, 15, 14, 13, 12
Max Grav All reactions 250 lb or less at joint(s) 1, 11, 16, 17, 18, 19, 20, 15, 14, 13, 12

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

NOTES-

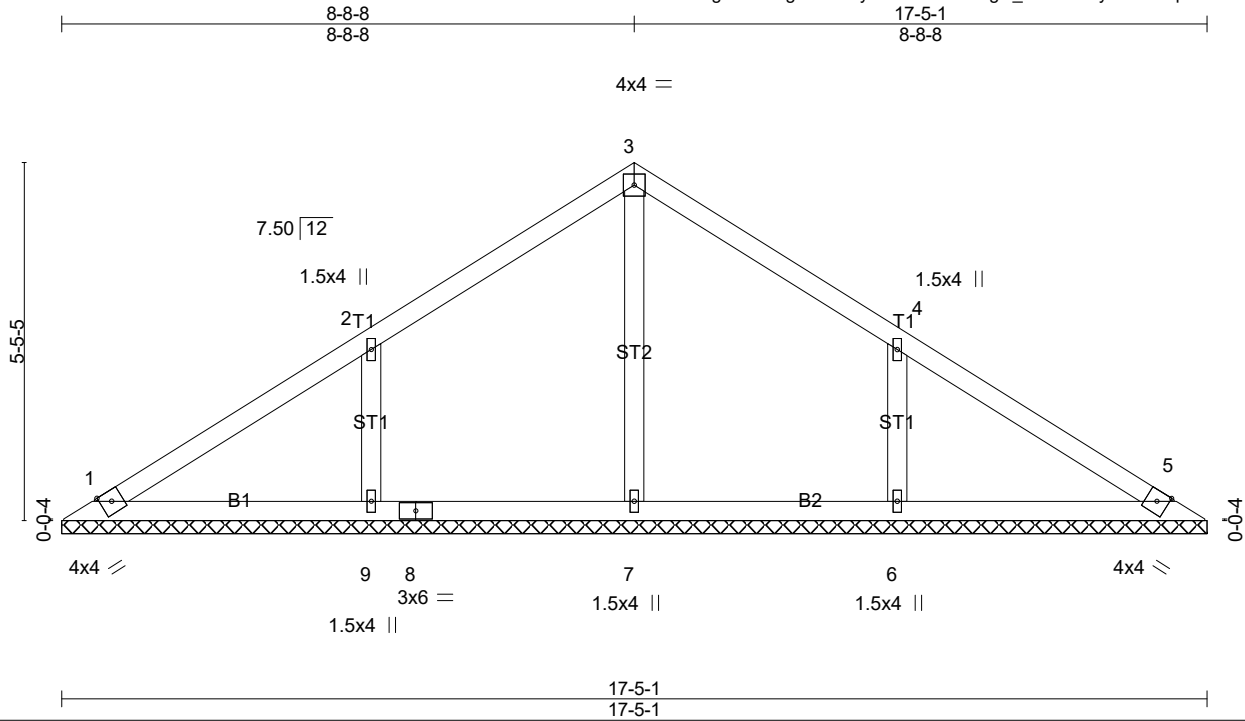
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=111mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- All plates are 1.5x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- 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 with a clearance greater than 6-0-0 between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 17, 18, 19, 20, 15, 14, 13, 12.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

| | | | | | |
|--------------|-------------|----------------------|----------|----------|-------------------------------|
| Job 27453 | Truss V5 | Truss Type Valley | Qty 1 | Ply 1 | Freedpm Const\Wellons Realty\ |
|--------------|-------------|----------------------|----------|----------|-------------------------------|

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8.430 s Jan 20 2021 MiTek Industries, Inc. Wed Jul 12 14:07:25 2023 Page 1
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| LOADING (psf) | SPACING- | CSI. | DEFL. | PLATES | GRIP |
|---------------|----------------------|----------|-------------------------|---------------|----------|
| TCLL 20.0 | 2-0-0 | TC 0.11 | in (loc) l/defl L/d | MT20 | 244/190 |
| TCDL 10.0 | Plate Grip DOL 1.15 | BC 0.14 | Vert(LL) n/a - n/a 999 | | |
| BCLL 0.0 * | Lumber DOL 1.15 | WB 0.08 | Vert(CT) n/a - n/a 999 | | |
| BCDL 10.0 | Rep Stress Incr YES | Matrix-S | Horz(CT) 0.00 5 n/a n/a | | |
| | Code IRC2018/TPI2014 | | | Weight: 69 lb | FT = 20% |

LUMBER-
TOP CHORD 2x4 SP 2400F 2.0E
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
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. All bearings 17-5-1.
(lb) - Max Horz 1=-113(LC 6)
Max Uplift All uplift 100 lb or less at joint(s) 9, 6
Max Grav All reactions 250 lb or less at joint(s) 1, 5, 7 except
9=402(LC 13), 6=402(LC 14)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-9=-302/140, 4-6=-302/140

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=111mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) Gable requires continuous bottom chord bearing.
 - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 9, 6.
 - 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

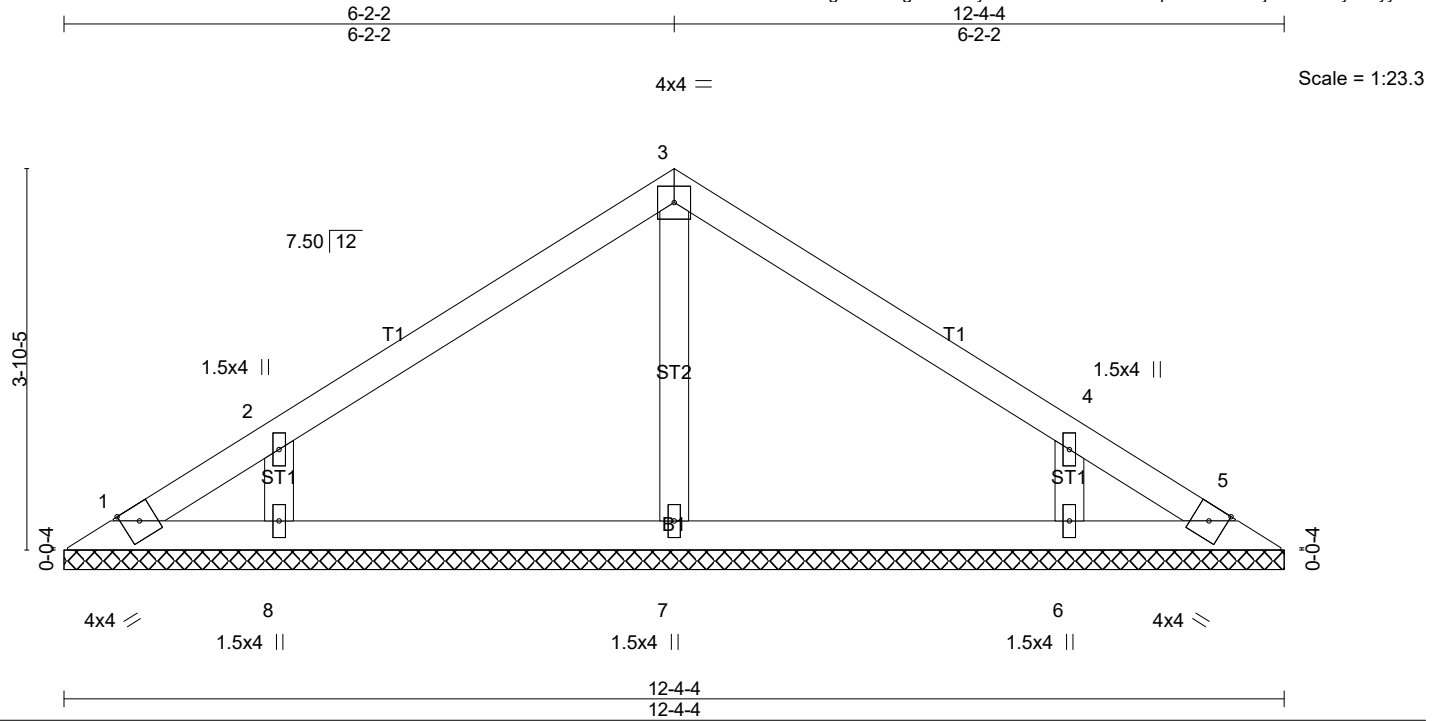
LOAD CASE(S) Standard

| | | | | | |
|--------------|-------------|----------------------|----------|----------|-------------------------------|
| Job 27453 | Truss V6 | Truss Type Valley | Qty 1 | Ply 1 | Freedpm Const\Wellons Realty\ |
|--------------|-------------|----------------------|----------|----------|-------------------------------|

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| LOADING (psf) | SPACING- | CSI. | DEFL. | PLATES | GRIP |
|---------------|----------------------|----------|-------------------------|---------------|----------|
| TCLL 20.0 | 2-0-0 | TC 0.08 | in (loc) l/defl L/d | MT20 | 244/190 |
| TCDL 10.0 | Plate Grip DOL 1.15 | BC 0.12 | Vert(LL) n/a - n/a 999 | | |
| BCLL 0.0 * | Lumber DOL 1.15 | WB 0.05 | Vert(CT) n/a - n/a 999 | | |
| BCDL 10.0 | Rep Stress Incr YES | Matrix-S | Horz(CT) 0.00 5 n/a n/a | | |
| | Code IRC2018/TPI2014 | | | Weight: 45 lb | FT = 20% |

LUMBER-
 TOP CHORD 2x4 SP 2400F 2.0E
 BOT CHORD 2x4 SP No.2
 OTHERS 2x4 SP No.3

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
 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. All bearings 12-4-4.
 (lb) - Max Horz 1=-78(LC 6)
 Max Uplift All uplift 100 lb or less at joint(s) 1, 5, 8, 6
 Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 7=265(LC 1),
 8=299(LC 13), 6=299(LC 14)

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

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=111mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) Gable requires continuous bottom chord bearing.
 - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5, 8, 6.
 - 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

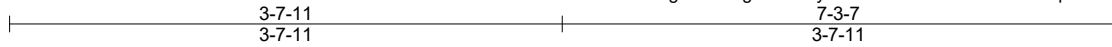
LOAD CASE(S) Standard

| | | | | | |
|--------------|-------------|----------------------|----------|----------|-------------------------------|
| Job 27453 | Truss V7 | Truss Type Valley | Qty 1 | Ply 1 | Freedpm Const\Wellons Realty\ |
|--------------|-------------|----------------------|----------|----------|-------------------------------|

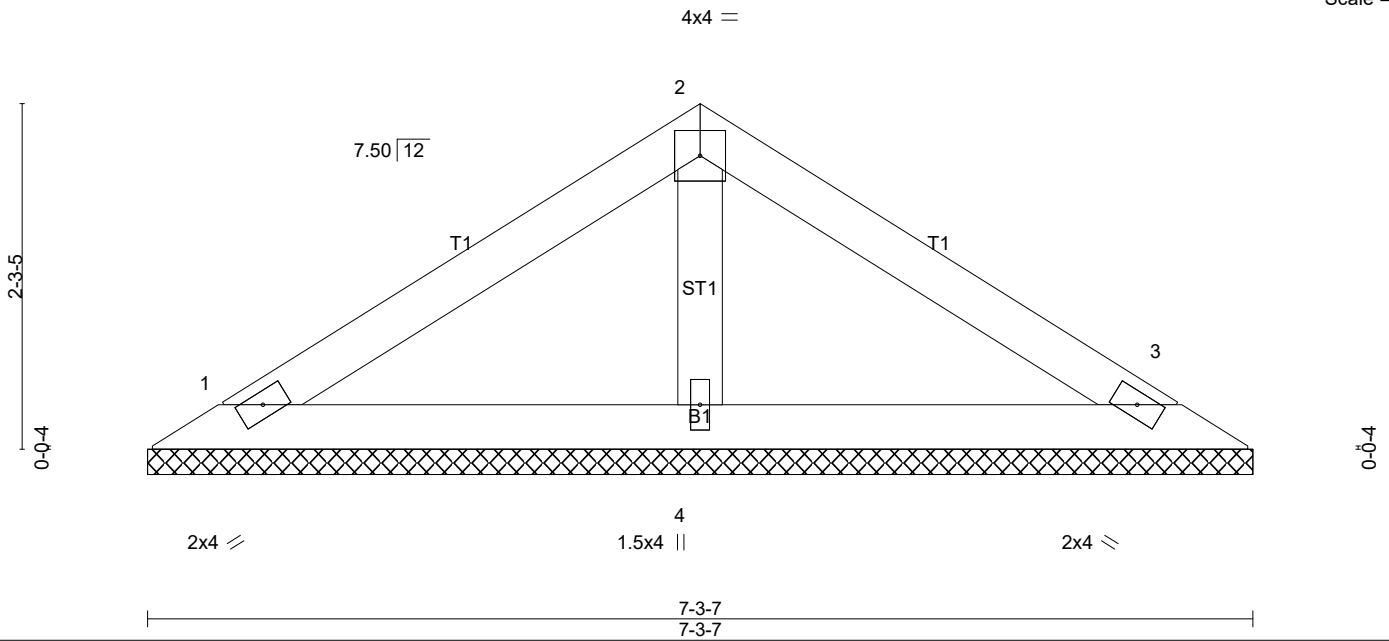
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Scale = 1:15.2



| LOADING (psf) | SPACING- | CSI. | DEFL. | PLATES | GRIP |
|---------------|----------------------|----------|-------------------------|---------------|----------|
| TCLL 20.0 | 2-0-0 | TC 0.08 | in (loc) l/defl L/d | MT20 | 244/190 |
| TCDL 10.0 | Plate Grip DOL 1.15 | BC 0.10 | Vert(LL) n/a - n/a 999 | | |
| BCLL 0.0 * | Lumber DOL 1.15 | WB 0.03 | Vert(CT) n/a - n/a 999 | | |
| BCDL 10.0 | Rep Stress Incr YES | Matrix-P | Horz(CT) 0.00 3 n/a n/a | | |
| | Code IRC2018/TPI2014 | | | Weight: 24 lb | FT = 20% |

LUMBER-

TOP CHORD 2x4 SP 2400F 2.0E
 BOT CHORD 2x4 SP No.2
 OTHERS 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
 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) 1=136/7-3-7 (min. 0-1-8), 3=136/7-3-7 (min. 0-1-8), 4=229/7-3-7 (min. 0-1-8)
 Max Horz 1=-43(LC 6)
 Max Uplift 1=-27(LC 8), 3=-27(LC 8)

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

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=111mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Gable requires continuous bottom chord bearing.
- 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 with a clearance greater than 6-0-0 between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

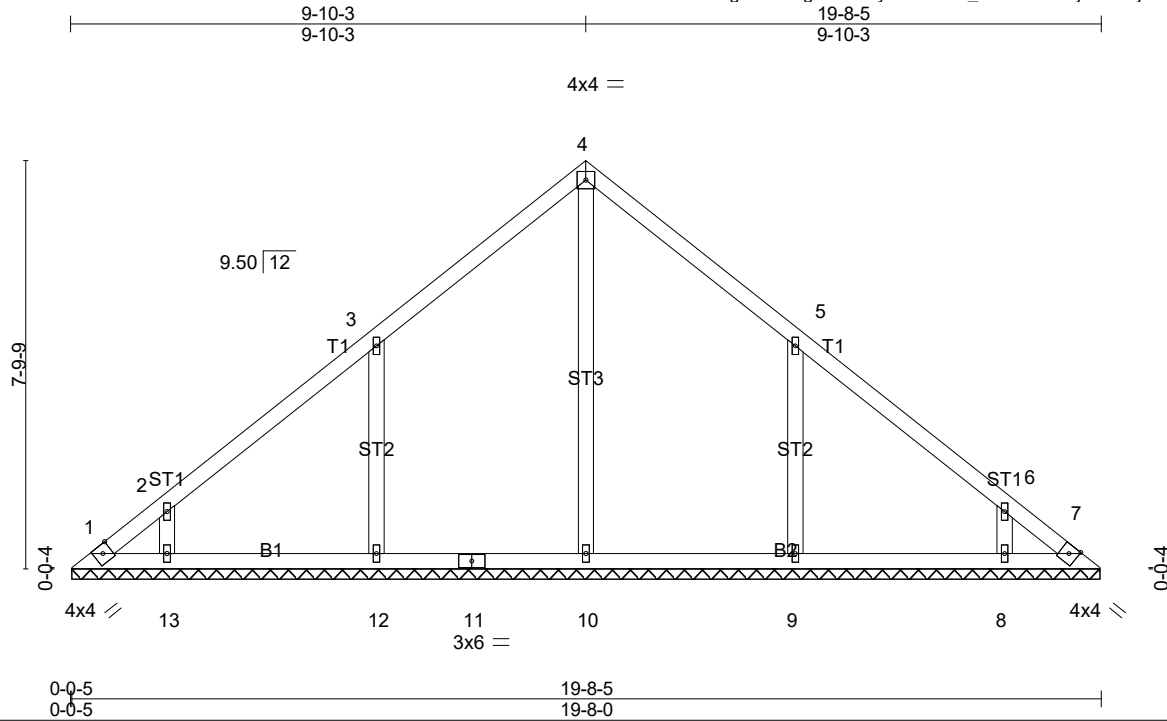
LOAD CASE(S) Standard

| | | | | | |
|--------------|-------------|----------------------|----------|----------|-------------------------------|
| Job 27453 | Truss V8 | Truss Type Valley | Qty 1 | Ply 1 | Freedpm Const\Wellons Realty\ |
|--------------|-------------|----------------------|----------|----------|-------------------------------|

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| LOADING (psf) | SPACING- | CSI. | DEFL. | PLATES | GRIP |
|---------------|----------------------|----------|-------------------------|---------------|----------|
| TCLL 20.0 | 2-0-0 | TC 0.09 | in (loc) l/defl L/d | MT20 | 244/190 |
| TCDL 10.0 | Plate Grip DOL 1.15 | BC 0.19 | Vert(LL) n/a - n/a 999 | | |
| BCLL 0.0 * | Lumber DOL 1.15 | WB 0.16 | Vert(CT) n/a - n/a 999 | | |
| BCDL 10.0 | Rep Stress Incr YES | Matrix-S | Horz(CT) 0.00 7 n/a n/a | | |
| | Code IRC2018/TPI2014 | | | Weight: 91 lb | FT = 20% |

LUMBER-

TOP CHORD 2x4 SP 2400F 2.0E
 BOT CHORD 2x4 SP No.2
 OTHERS 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
 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.

All bearings 19-7-11.
 (lb) - Max Horz 1=-176(LC 6)
 Max Uplift All uplift 100 lb or less at joint(s) 1, 7, 13, 8 except
 12=-111(LC 8), 9=-111(LC 8)
 Max Grav All reactions 250 lb or less at joint(s) 1, 7 except 10=365(LC
 13), 12=433(LC 13), 13=267(LC 13), 9=433(LC 14), 8=267(LC 14)

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

WEBS 3-12=-292/160, 5-9=-291/160

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=111mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- All plates are 1.5x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- 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 with a clearance greater than 6-0-0 between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 7, 13, 8 except (jt=lb) 12=111, 9=111.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

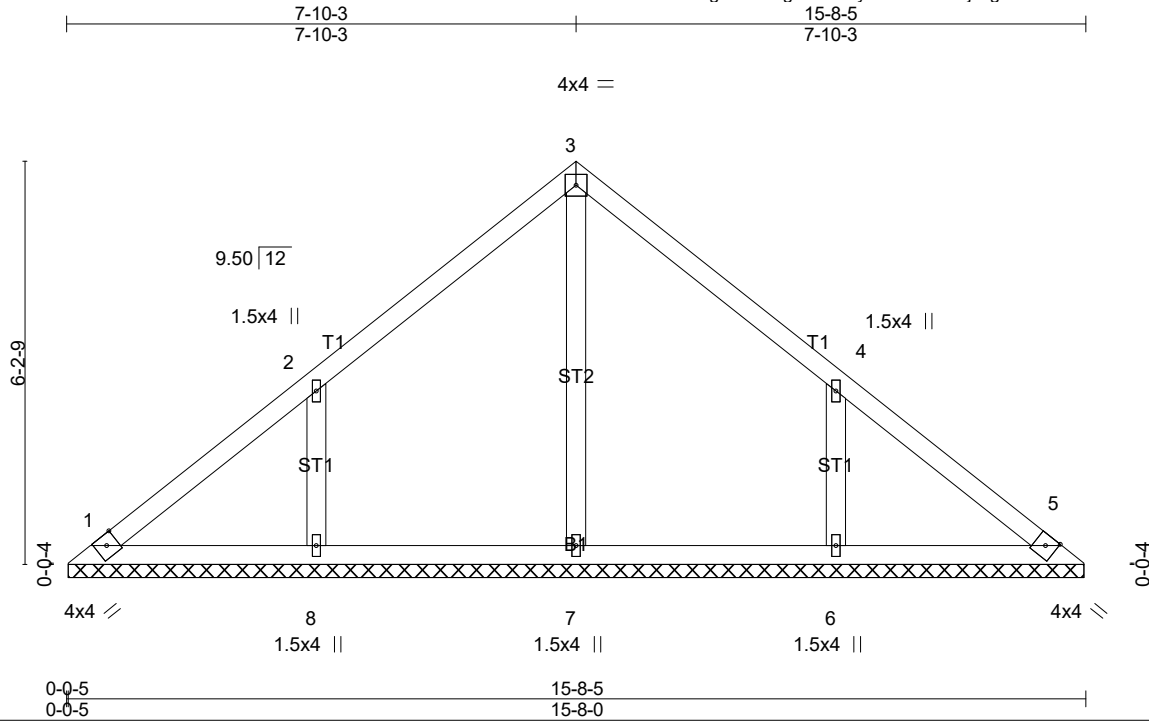
LOAD CASE(S) Standard

| | | | | | |
|--------------|-------------|----------------------|----------|----------|-------------------------------|
| Job 27453 | Truss V9 | Truss Type Valley | Qty 1 | Ply 1 | Freedpm Const\Wellons Realty\ |
|--------------|-------------|----------------------|----------|----------|-------------------------------|

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| LOADING (psf) | SPACING- | CSI. | DEFL. | PLATES | GRIP |
|---------------|----------------------|----------|-------------------------|---------------|----------|
| TCLL 20.0 | 2-0-0 | TC 0.09 | in (loc) l/defl L/d | MT20 | 244/190 |
| TCDL 10.0 | Plate Grip DOL 1.15 | BC 0.11 | Vert(LL) n/a - n/a 999 | | |
| BCLL 0.0 * | Lumber DOL 1.15 | WB 0.10 | Vert(CT) n/a - n/a 999 | | |
| BCDL 10.0 | Rep Stress Incr YES | Matrix-S | Horz(CT) 0.00 5 n/a n/a | | |
| | Code IRC2018/TPI2014 | | | Weight: 67 lb | FT = 20% |

LUMBER-
 TOP CHORD 2x4 SP 2400F 2.0E
 BOT CHORD 2x4 SP No.2
 OTHERS 2x4 SP No.3

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
 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. All bearings 15-7-11.
 (lb) - Max Horz 1=138(LC 7)
 Max Uplift All uplift 100 lb or less at joint(s) except 8=-112(LC 8),
 6=-112(LC 8)
 Max Grav All reactions 250 lb or less at joint(s) 1, 5, 7 except
 8=376(LC 13), 6=375(LC 14)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 WEBS 2-8=-289/157, 4-6=-289/157

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=111mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - Gable requires continuous bottom chord bearing.
 - 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 with a clearance greater than 6-0-0 between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 112 lb uplift at joint 8 and 112 lb uplift at joint 6.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

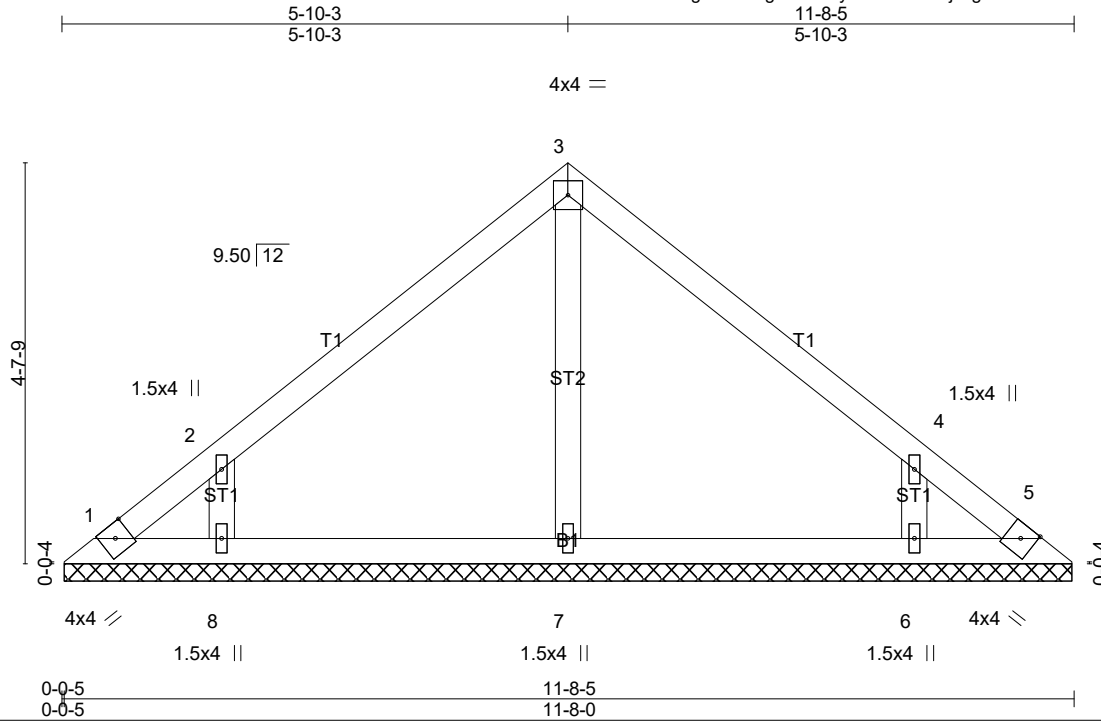
LOAD CASE(S) Standard

| | | | | | |
|--------------|--------------|----------------------|----------|----------|-------------------------------|
| Job 27453 | Truss V10 | Truss Type Valley | Qty 1 | Ply 1 | Freedpm Const\Wellons Realty\ |
|--------------|--------------|----------------------|----------|----------|-------------------------------|

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Scale = 1:26.6

| | | | | | | | | | |
|----------------------|----------------------|-------|-------------|--------------|----------|--------|-----|---------------|-------------|
| 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 0.08 | Vert(LL) | n/a | - | n/a | MT20 | 244/190 |
| TCDL 10.0 | Lumber DOL | 1.15 | BC 0.12 | Vert(CT) | n/a | - | n/a | | |
| BCLL 0.0 * | Rep Stress Incr | YES | WB 0.06 | Horz(CT) | 0.00 | 5 | n/a | | |
| BCDL 10.0 | Code IRC2018/TPI2014 | | Matrix-S | | | | | | |
| | | | | | | | | Weight: 47 lb | FT = 20% |

LUMBER-
 TOP CHORD 2x4 SP 2400F 2.0E
 BOT CHORD 2x4 SP No.2
 OTHERS 2x4 SP No.3

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
 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. All bearings 11-7-11.
 (lb) - Max Horz 1=-101(LC 6)
 Max Uplift All uplift 100 lb or less at joint(s) 1, 5, 8, 6
 Max Grav All reactions 250 lb or less at joint(s) 1, 5, 7 except
 8=316(LC 13), 6=315(LC 14)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 WEBS 2-8=-254/140, 4-6=-254/140

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=111mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) Gable requires continuous bottom chord bearing.
 - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5, 8, 6.
 - 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

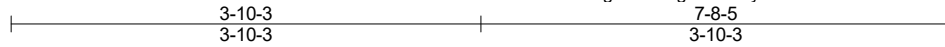
LOAD CASE(S) Standard

| | | | | | |
|--------------|--------------|----------------------|----------|----------|-------------------------------|
| Job 27453 | Truss V11 | Truss Type Valley | Qty 1 | Ply 1 | Freedpm Const\Wellons Realty\ |
|--------------|--------------|----------------------|----------|----------|-------------------------------|

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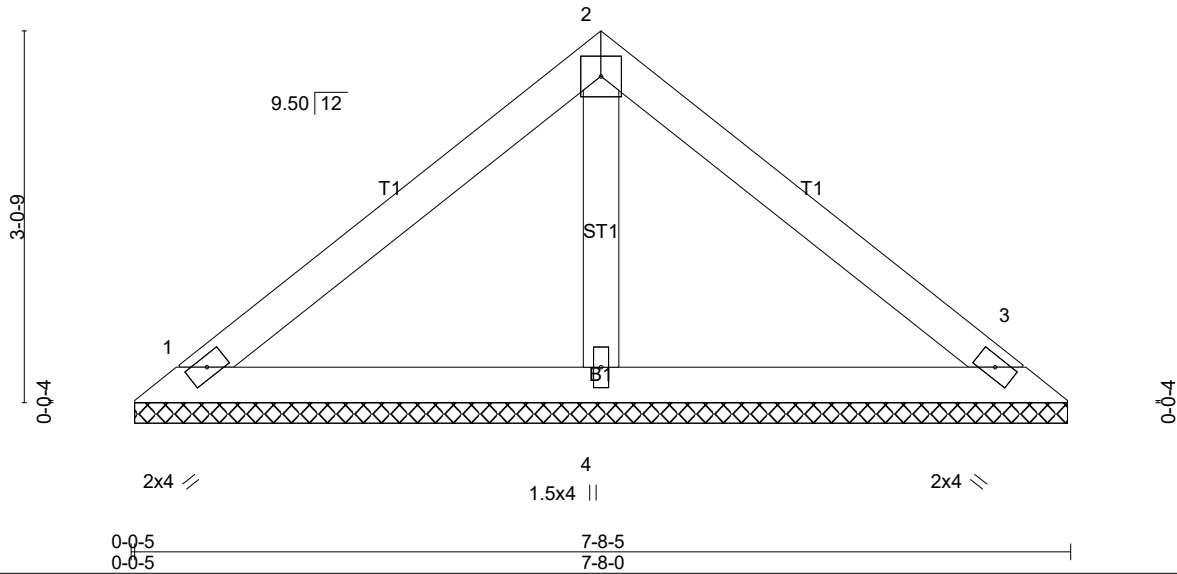
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4x4 =

Scale = 1:18.9



| LOADING (psf) | SPACING- | CSI. | DEFL. | PLATES | GRIP |
|---------------|----------------------|----------|-------------------------|---------------|----------|
| TCLL 20.0 | 2-0-0 | TC 0.10 | in (loc) l/defl L/d | MT20 | 244/190 |
| TCDL 10.0 | Plate Grip DOL 1.15 | BC 0.12 | Vert(LL) n/a - n/a 999 | | |
| BCLL 0.0 * | Lumber DOL 1.15 | WB 0.03 | Vert(CT) n/a - n/a 999 | | |
| BCDL 10.0 | Rep Stress Incr YES | Matrix-P | Horz(CT) 0.00 3 n/a n/a | | |
| | Code IRC2018/TPI2014 | | | Weight: 28 lb | FT = 20% |

LUMBER-

TOP CHORD 2x4 SP 2400F 2.0E
 BOT CHORD 2x4 SP No.2
 OTHERS 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
 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) 1=160/7-7-11 (min. 0-1-8), 3=160/7-7-11 (min. 0-1-8), 4=229/7-7-11 (min. 0-1-8)
 Max Horz 1=64(LC 7)
 Max Uplift 1=-34(LC 8), 3=-34(LC 8)

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

NOTES-

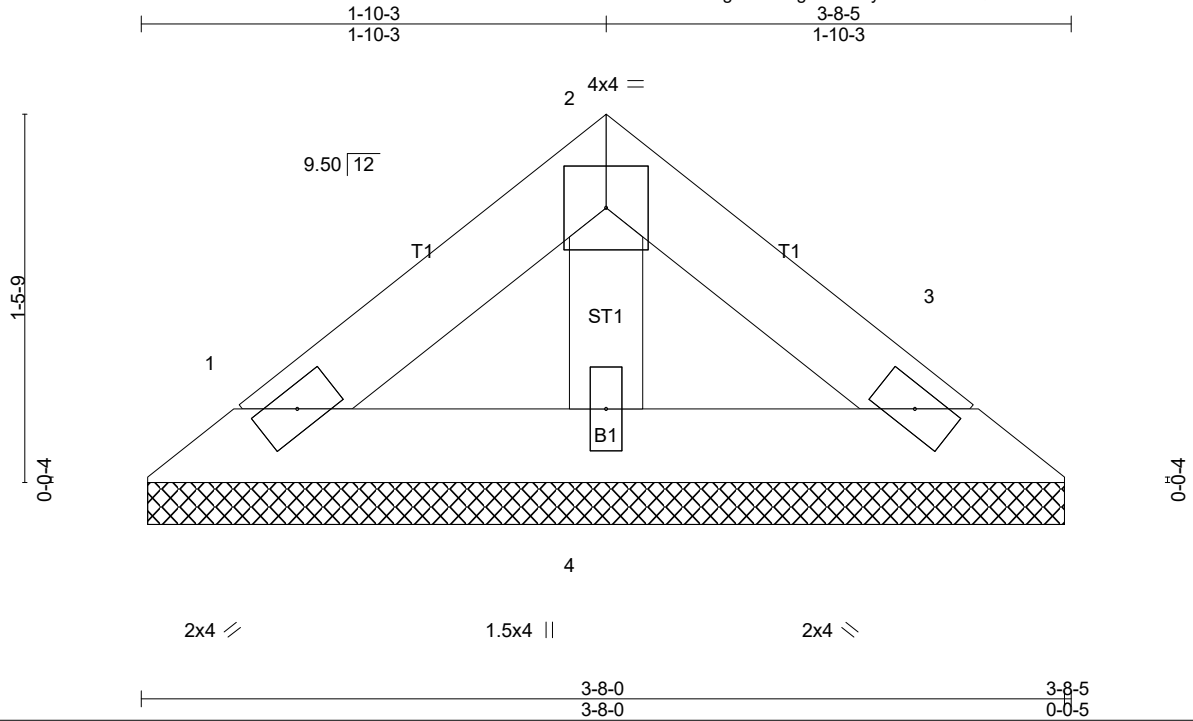
- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=111mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

| | | | | | |
|--------------|--------------|----------------------|----------|----------|-------------------------------|
| Job 27453 | Truss V12 | Truss Type Valley | Qty 1 | Ply 1 | Freedpm Const\Wellons Realty\ |
|--------------|--------------|----------------------|----------|----------|-------------------------------|

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| LOADING (psf) | SPACING- | CSI. | DEFL. | PLATES | GRIP |
|---------------|----------------------|----------|-------------------------|---------------|----------|
| TCLL 20.0 | 2-0-0 | TC 0.02 | in (loc) l/defl L/d | MT20 | 244/190 |
| TCDL 10.0 | Plate Grip DOL 1.15 | BC 0.02 | Vert(LL) n/a - n/a 999 | | |
| BCLL 0.0 * | Lumber DOL 1.15 | WB 0.01 | Vert(CT) n/a - n/a 999 | | |
| BCDL 10.0 | Rep Stress Incr YES | Matrix-P | Horz(CT) 0.00 3 n/a n/a | | |
| | Code IRC2018/TPI2014 | | | Weight: 12 lb | FT = 20% |

LUMBER-

TOP CHORD 2x4 SP 2400F 2.0E
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-8-5 oc purlins.
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) 1=67/3-7-11 (min. 0-1-8), 3=67/3-7-11 (min. 0-1-8), 4=95/3-7-11 (min. 0-1-8)
Max Horz 1=27(LC 7)
Max Uplift 1=-14(LC 8), 3=-14(LC 8)

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

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=111mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard