

Mark Morris, P.E.

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The truss drawing(s) listed below have been prepared by **Atlantic Building Components** under my direct supervision based on the parameters provided by the truss designers.

AST #: 44198

JOB: 24-0269-R01

JOB NAME: LOT 61 PROVIDENCE CREEK

Wind Code: 37

Wind Speed: Vult= 120mph

Exposure Category: B

Mean Roof Height (feet): 35

These truss designs comply with IRC 2015 as well as IRC 2018.

20 Truss Design(s)

Trusses:

J01, J03, J04, J05, J06, R01, R02, R02A, R03, R04, R05, R06, R07, R08, R09, SP01, SP02, V01, V02, V03

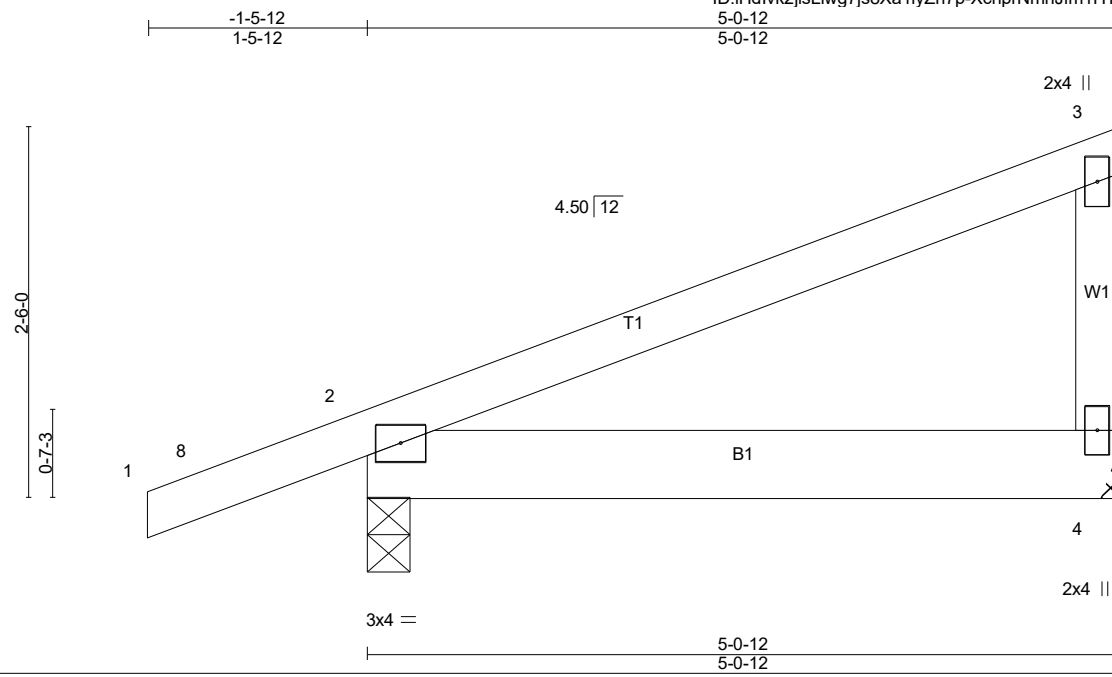


1/15/2024

Mark Morris

Warning !—Verify design parameters and read notes before use.

This design is based only upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of building designer – not truss designer or truss engineer. Bracing shown is for lateral support of individual web members only. Additional temporary bracing to ensure stability during construction is the responsibility of the erector. Additional permanent bracing of the overall structure is the responsibility of the building designer. For general guidance regarding fabrication, quality control, storage, delivery, erection and bracing, consult ANSI/TPI 1 *National Design Standard for Metal Plate Connected Wood Truss Construction* and BCSI 1-03 Guide to



Scale = 1:15.5

| | | | | | | | | | |
|----------------------|-------|----------------------|------|-------------|------|--------------|--------------------|---------------|-------------|
| LOADING (psf) | | SPACING- | | CSI. | | DEFL. | | PLATES | GRIP |
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.36 | Vert(LL) | 0.03 4-7 >999 240 | MT20 | 244/190 |
| Snow (Pf) | 20.0 | Lumber DOL | 1.15 | BC | 0.20 | Vert(CT) | -0.02 4-7 >999 180 | | |
| TCDL | 10.0 | Rep Stress Incr | YES | WB | 0.00 | Horz(CT) | 0.00 2 n/a n/a | | |
| BCLL | 0.0 * | Code IRC2021/TPI2014 | | Matrix-AS | | | | | |
| BCDL | 10.0 | | | | | | | Weight: 25 lb | FT = 20% |

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

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

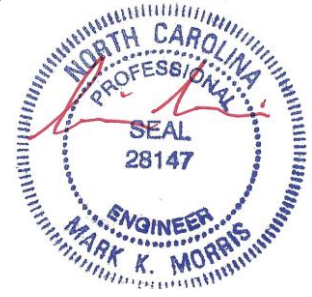
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 4=183/Mechanical, 2=299/0-3-8 (min. 0-1-8)
 Max Horz 2=85(LC 13)
 Max Uplift 4=-69(LC 10), 2=-123(LC 10)
 Max Grav 4=251(LC 21), 2=402(LC 21)

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

- NOTES-** (10)
- 1) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TC DL=5.0psf; BC DL=5.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
 - 3) Unbalanced snow loads have been considered for this design.
 - 4) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
 - 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 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members.
 - 7) Refer to girder(s) for truss to truss connections.
 - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb) 2=123.
 - 9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard



1/15/2024

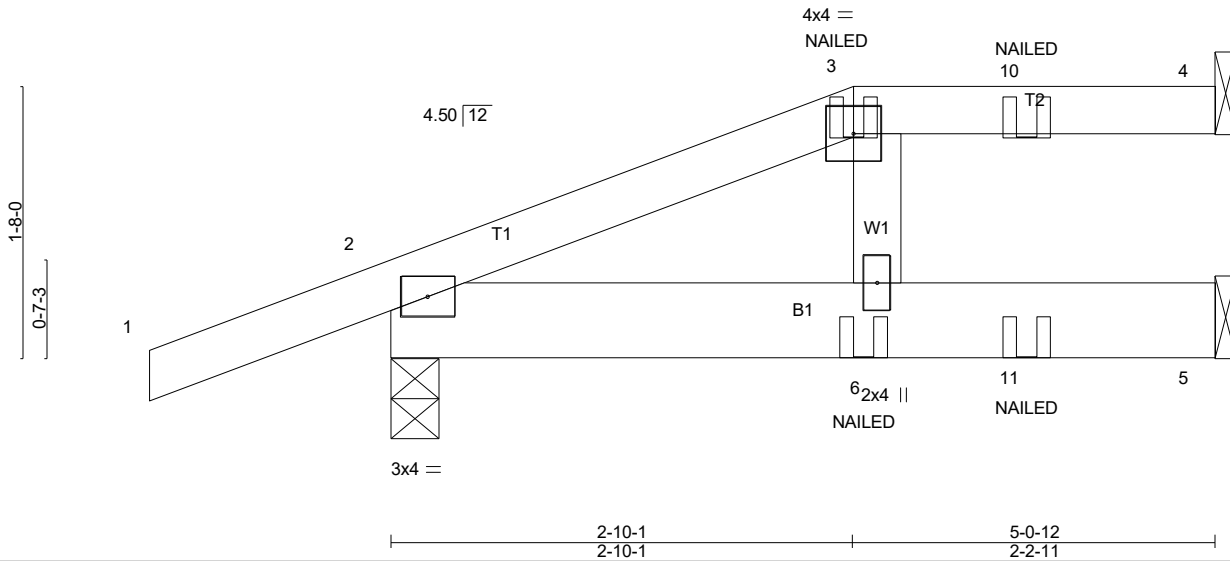
Warning !—Verify design parameters and read notes before use. This design is based only upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of building designer – not truss designer or truss engineer. Bracing shown is for lateral support of individual web members only. Additional temporary bracing to ensure stability during construction is the responsibility of the erector. Additional permanent bracing of the overall structure is the responsibility of the building designer. For general guidance regarding fabrication, quality control, storage, delivery, erection and bracing, consult ANSI/TPI 1 *National Design Standard for Metal Plate Connected Wood Truss Construction* and BCSI 1-03 *Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses* from Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719.

| | | | | | | |
|--------------------|--------------|--------------------------------|----------|----------|--|--|
| Job 24-0269-R01 | Truss J03 | Truss Type Jack-Open Girder | Qty 1 | Ply 1 | LOT 61 PROVIDENCE CREEK 43 WINDSWEEP WAY FUGUAY-VARINA, NC | Job Reference (optional) # 44198 |
|--------------------|--------------|--------------------------------|----------|----------|--|--|

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| | | | | | |
|----------------------|----------------------|-------------|---------------------------|---------------|-------------|
| LOADING (psf) | SPACING- | CSI. | DEFL. | PLATES | GRIP |
| TCLL (roof) 20.0 | 2-0-0 | TC 0.28 | in (loc) l/defl L/d | MT20 | 244/190 |
| Snow (Pf) 20.0 | Plate Grip DOL 1.15 | BC 0.27 | Vert(LL) -0.02 6 >999 240 | | |
| TCDL 10.0 | Lumber DOL 1.15 | WB 0.03 | Vert(CT) -0.03 6 >999 180 | | |
| BCLL 0.0 * | Rep Stress Incr NO | Matrix-MP | Horz(CT) 0.01 4 n/a n/a | | |
| BCDL 10.0 | Code IRC2021/TPI2014 | | | Weight: 24 lb | FT = 20% |

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

BRACING-
TOP CHORD
BOT CHORD

Structural wood sheathing directly applied or 5-0-12 oc purlins.
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) 4=71/Mechanical, 2=309/0-3-8 (min. 0-1-8), 5=132/Mechanical
Max Horz 2=59(LC 8)
Max Uplift 4=-26(LC 8), 2=-128(LC 8), 5=-53(LC 8)
Max Grav 4=103(LC 33), 2=435(LC 34), 5=143(LC 34)

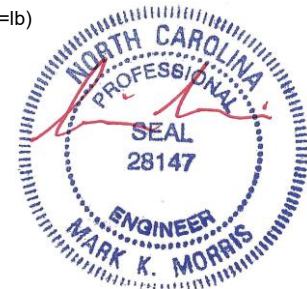
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES- (13)

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=5.0psf; BCCL=5.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; porch left exposed; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 5 except (jt=lb) 2=128.
- "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidelines.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

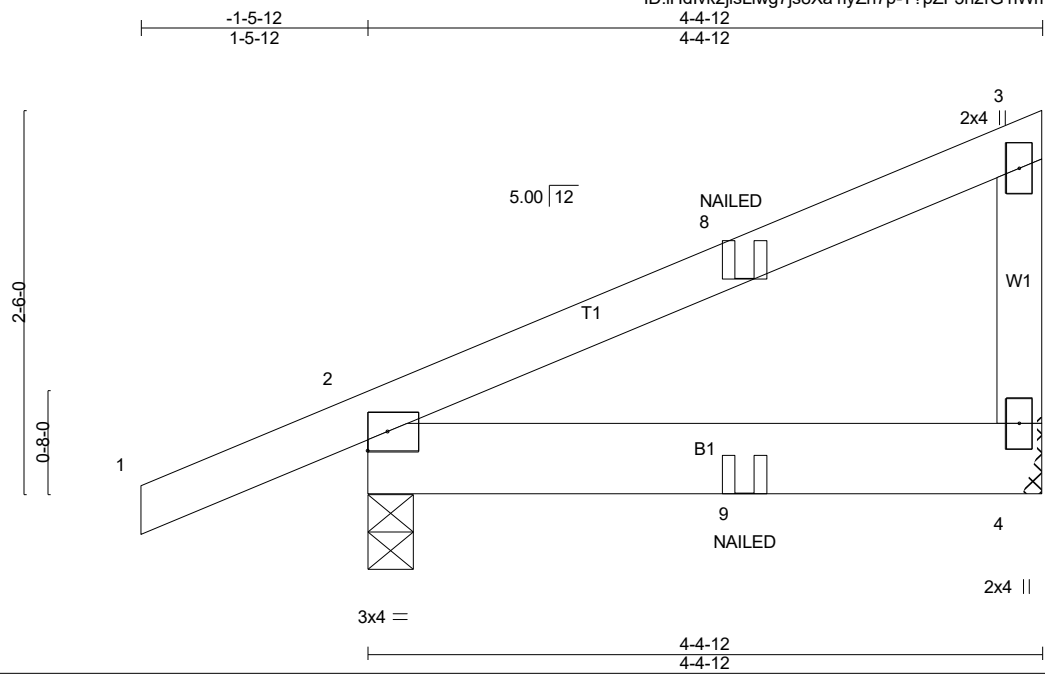
LOAD CASE(S) Standard

- Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-60, 3-4=-60, 5-7=-20
Concentrated Loads (lb)
Vert: 3=-12(B) 6=0(B) 10=-12(B) 11=0(B)



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Scale = 1:15.0

| | | | | | | | | | |
|----------------------|-------|----------------------|------|-------------|------|--------------|--------------------|---------------|-------------|
| LOADING (psf) | | SPACING- | | CSI. | | DEFL. | | PLATES | GRIP |
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.39 | Vert(LL) | -0.01 4-7 >999 240 | MT20 | 244/190 |
| Snow (Pf) | 20.0 | Lumber DOL | 1.15 | BC | 0.25 | Vert(CT) | -0.02 4-7 >999 180 | | |
| TCDL | 10.0 | Rep Stress Incr | NO | WB | 0.00 | Horz(CT) | 0.00 2 n/a n/a | | |
| BCLL | 0.0 * | Code IRC2021/TPI2014 | | Matrix-MP | | | | | |
| BCDL | 10.0 | | | | | | | Weight: 22 lb | FT = 20% |

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

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 4-4-12 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

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

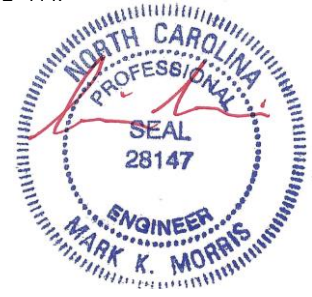
REACTIONS. (lb/size) 4=251/Mechanical, 2=344/0-3-8 (min. 0-1-8)
 Max Horz 2=83(LC 11)
 Max Uplift 4=-77(LC 8), 2=-114(LC 8)
 Max Grav 4=290(LC 19), 2=449(LC 19)

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

- NOTES-** (11)
- 1) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCCL=5.0psf; BCCL=5.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; porch left exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
 - 3) Unbalanced snow loads have been considered for this design.
 - 4) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
 - 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 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members.
 - 7) Refer to girder(s) for truss to truss connections.
 - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb) 2=114.
 - 9) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidelines.
 - 10) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

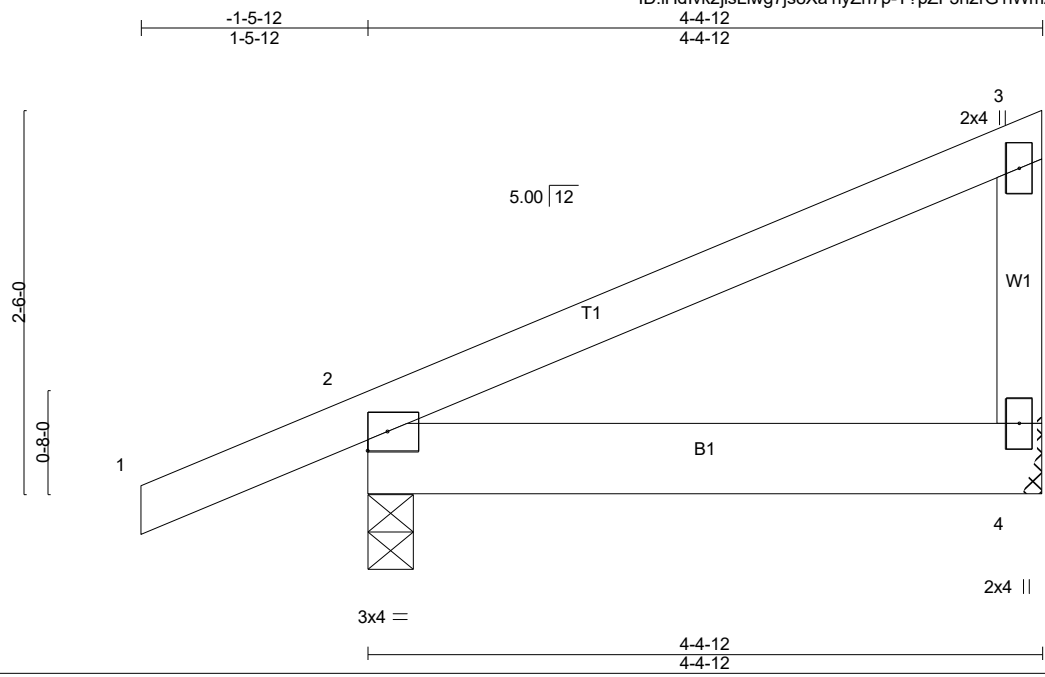
LOAD CASE(S) Standard

- 1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 1-3=-60, 4-5=-20
 Concentrated Loads (lb)
 Vert: 8=-43(F) 9=-123(F)



1/15/2024

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Scale = 1:15.0

| | | | | | | | | | |
|----------------------|-------|----------------------|------|-------------|------|--------------|--------------------|---------------|-------------|
| LOADING (psf) | | SPACING- | | CSI. | | DEFL. | | PLATES | GRIP |
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.27 | Vert(LL) | -0.01 4-7 >999 240 | MT20 | 244/190 |
| Snow (Pf) | 20.0 | Lumber DOL | 1.15 | BC | 0.13 | Vert(CT) | -0.01 4-7 >999 180 | | |
| TCDL | 10.0 | Rep Stress Incr | YES | WB | 0.00 | Horz(CT) | -0.00 2 n/a n/a | | |
| BCLL | 0.0 * | Code IRC2021/TPI2014 | | Matrix-AS | | | | Weight: 22 lb | FT = 20% |
| BCDL | 10.0 | | | | | | | | |

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

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

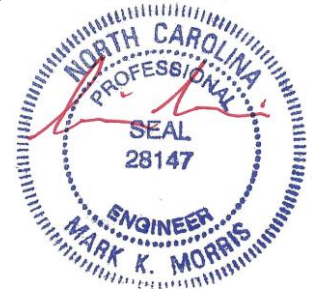
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 4=155/Mechanical, 2=274/0-3-8 (min. 0-1-8)
 Max Horz 2=83(LC 13)
 Max Uplift 4=-41(LC 10), 2=-88(LC 10)
 Max Grav 4=211(LC 21), 2=392(LC 21)

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

- NOTES-** (10)
- 1) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TC DL=5.0psf; BCDL=5.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; cantilever left and right exposed ; end vertical left and right exposed; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
 - 3) Unbalanced snow loads have been considered for this design.
 - 4) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
 - 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 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members.
 - 7) Refer to girder(s) for truss to truss connections.
 - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 2.
 - 9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard



1/15/2024

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|--------------------------|-------|------------|-----|-----|--|
| Job | Truss | Truss Type | Qty | Ply | LOT 61 PROVIDENCE CREEK 43 WINDSWEEP WAY FUGUAY-VARINA, NC |
| 24-0269-R01 | R01 | GABLE | 2 | 1 | |
| Job Reference (optional) | | | | | # 44198 |

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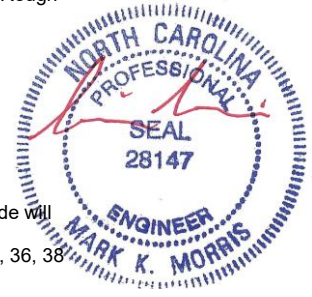
| | | | | | |
|----------------------|----------------------|-------------|--------------------------|----------------|-------------|
| LOADING (psf) | SPACING- | CSI. | DEFL. | PLATES | GRIP |
| TCLL (roof) 20.0 | 2-0-0 | TC 0.12 | in (loc) l/defl L/d | MT20 | 244/190 |
| Snow (Pf) 20.0 | Plate Grip DOL 1.15 | BC 0.06 | Vert(LL) -0.00 1 n/r 180 | | |
| TCDL 10.0 | Lumber DOL 1.15 | WB 0.23 | Vert(CT) -0.00 1 n/r 80 | | |
| BCDL 0.0 * | Rep Stress Incr YES | Matrix-R | Horz(CT) 0.00 23 n/a n/a | | |
| BCDL 10.0 | Code IRC2021/TPI2014 | | | Weight: 243 lb | FT = 20% |

| | |
|-----------------------|--|
| LUMBER- | BRACING- |
| TOP CHORD 2x4 SP No.2 | TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals. |
| BOT CHORD 2x4 SP No.2 | BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing. |
| WEBS 2x4 SP No.3 | WEBS 1 Row at midpt 12-33 |
| OTHERS 2x4 SP No.3 | MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide. |

REACTIONS. All bearings 37-8-8.
 (lb) - Max Horz 43=108(LC 14)
 Max Uplift All uplift 100 lb or less at joint(s) 43, 23, 34, 35, 36, 38, 39, 40, 41, 32, 31, 30, 28, 27, 26, 25, 24 except 42=-101(LC 14)
 Max Grav All reactions 250 lb or less at joint(s) 43, 23, 36, 38, 39, 40, 41, 42, 30, 28, 27, 26, 25, 24 except 33=260(LC 27), 34=285(LC 5), 35=276(LC 5), 32=285(LC 6), 31=276(LC 6)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 10-45=-101/253, 10-11=-123/289, 11-12=-137/320, 12-13=-137/320, 13-14=-123/289, 14-46=-101/253

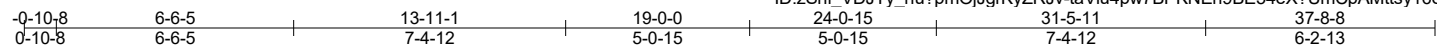
- NOTES-** (14)
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=5.0psf; BCDL=5.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3E) -0-10-8 to 3-11-2, Exterior(2N) 3-11-2 to 14-2-6, Corner(3R) 14-2-6 to 23-9-10, Exterior(2N) 23-9-10 to 32-9-2, Corner(3E) 32-9-2 to 37-6-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
 - Unbalanced snow loads have been considered for this design.
 - This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
 - Gable studs spaced at 2-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit 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) 43, 23, 34, 35, 36, 38, 39, 40, 41, 32, 31, 30, 28, 27, 26, 25, 24 except (jt=lb) 42=101.



1/15/2024

LOAD CASE(S) Standard

Warning!—Verify design parameters and read notes before use. This design is based only upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of building designer – not truss designer or truss engineer. Bracing shown is for lateral support of individual web members only. Additional temporary bracing to ensure stability during construction is the responsibility of the erector. Additional permanent bracing of the overall structure is the responsibility of the building designer. For general guidance regarding fabrication, quality control, storage, delivery, erection and bracing, consult ANSI/TPI 1 *National Design Standard for Metal Plate Connected Wood Truss Construction* and BCSI 1-03 *Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses* from Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719.



Scale = 1:63.1

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

| LOADING (psf) | SPACING- | CSI. | DEFL. | PLATES | GRIP |
|------------------|----------------------|-----------|-------------------------------|----------------|----------|
| TCLL (roof) 20.0 | 2-0-0 | TC 0.77 | in (loc) l/defl L/d | MT20 | 244/190 |
| Snow (Pf) 20.0 | Plate Grip DOL 1.15 | BC 0.96 | Vert(LL) -0.37 14-16 >999 240 | | |
| TCDL 10.0 | Lumber DOL 1.15 | WB 0.71 | Vert(CT) -0.59 14-16 >755 180 | | |
| BCLL 0.0 * | Rep Stress Incr YES | Matrix-AS | Horz(CT) 0.13 11 n/a n/a | | |
| BCDL 10.0 | Code IRC2021/TPI2014 | | | Weight: 212 lb | FT = 20% |

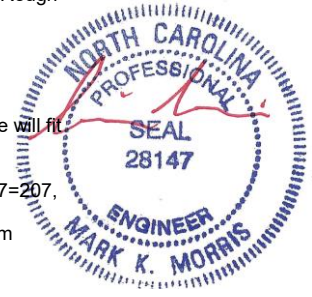
| LUMBER- | BRACING- |
|---|---|
| TOP CHORD 2x4 SP No.2 | TOP CHORD Structural wood sheathing directly applied, except end verticals. |
| BOT CHORD 2x4 SP No.2 *Except* B2: 2x4 SP No.1 | BOT CHORD Rigid ceiling directly applied. |
| WEBS 2x4 SP No.3 | WEBS 1 Row at midpt 5-14, 7-14, 3-17, 9-11 |

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

REACTIONS. (lb/size) 17=1559/0-3-8 (min. 0-1-13), 11=1496/Mechanical
 Max Horz 17=108(LC 14)
 Max Uplift 17=-207(LC 14), 11=-185(LC 15)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-18=-571/93, 3-18=-457/105, 3-4=-2592/388, 4-19=-2521/402, 5-19=-2448/404,
 5-6=-1954/390, 6-7=-1954/390, 7-20=-2402/404, 8-20=-2474/402, 8-9=-2546/388,
 9-21=-334/82, 10-21=-415/70, 2-17=-446/148, 10-11=-305/88
 BOT CHORD 16-17=-377/2390, 15-16=-225/2098, 15-22=-225/2098, 14-22=-225/2098, 14-23=-222/2080,
 13-23=-222/2080, 12-13=-222/2080, 11-12=-298/2312
 WEBS 5-16=-45/441, 5-14=-712/225, 6-14=-165/1257, 7-14=-684/222, 7-12=-39/399,
 3-17=-2256/314, 9-11=-2339/337

- NOTES-** (11)
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCCL=5.0psf; BCDL=5.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-10-8 to 3-11-2, Interior(1) 3-11-2 to 13-11-1, Exterior(2R) 13-11-1 to 24-0-15, Interior(1) 24-0-15 to 32-9-2, Exterior(2E) 32-9-2 to 37-6-12 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
 - 4) Unbalanced snow loads have been considered for this design.
 - 5) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
 - 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 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - 8) Refer to girder(s) for truss to truss connections.
 - 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 17=207, 11=185.
 - 10) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



LOAD CASE(S) Standard

1/15/2024

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Scale: 3/16"=1'

| LOADING (psf) | | SPACING- | | CSI. | | DEFL. | | | | PLATES | | GRIP | |
|---------------|-------|----------------------|------|-----------|------|----------|-------|----------|----|--------|------|----------------|----------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.57 | Vert(LL) | -0.61 | in (loc) | 17 | l/defl | >730 | L/d | 240 |
| Snow (Pf) | 20.0 | Lumber DOL | 1.15 | BC | 0.90 | Vert(CT) | -1.00 | | 17 | >445 | 180 | | |
| TCDL | 10.0 | Rep Stress Incr | YES | WB | 0.91 | Horz(CT) | 0.09 | | 11 | n/a | n/a | | |
| BCLL | 0.0 * | Code IRC2021/TPI2014 | | Matrix-AS | | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | | | |
| | | | | | | | | | | | | Weight: 234 lb | FT = 20% |

LUMBER-
 TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2 *Except*
 B3: 2x4 SP No.1, B2: 2x4 SP SS
 WEBS 2x4 SP No.3 *Except*
 W1,W9: 2x6 SP No.2

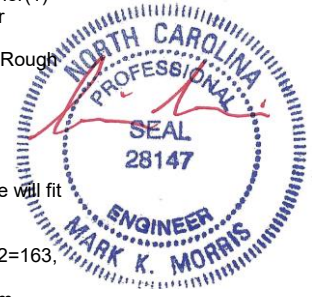
BRACING-
 TOP CHORD Structural wood sheathing directly applied, except end verticals.
 BOT CHORD Rigid ceiling directly applied. Except:
 6-0-0 oc bracing: 16-18

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

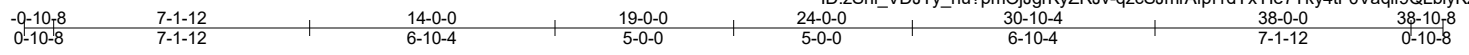
REACTIONS. (lb/size) 22=1647/0-3-8 (min. 0-1-15), 11=1580/Mechanical
 Max Horz 22=107(LC 14)
 Max Uplift 22=-163(LC 14), 11=-138(LC 15)
 Max Grav 22=1648(LC 3), 11=1596(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-23=-2858/276, 3-23=-2786/289, 3-4=-2689/261, 4-24=-2622/282, 5-24=-2557/284,
 5-6=-2676/367, 6-7=-2656/367, 7-25=-2538/285, 8-25=-2603/282, 8-9=-2670/261,
 9-26=-2656/290, 10-26=-2770/277, 2-22=-1564/245, 10-11=-1505/197
 BOT CHORD 21-22=-190/481, 20-21=-260/2571, 19-20=-260/2571, 19-27=-30/1881, 15-27=-30/1881,
 15-28=-30/1881, 28-29=-30/1881, 14-29=-30/1881, 13-14=-189/2499, 12-13=-189/2499,
 11-12=-55/329
 WEBS 6-16=-152/1106, 14-16=-195/990, 7-14=-478/189, 9-14=-322/171, 9-12=-251/80,
 18-19=-200/1026, 6-18=-156/1141, 5-19=-481/190, 3-19=-374/176, 2-21=-119/2113,
 10-12=-151/2191

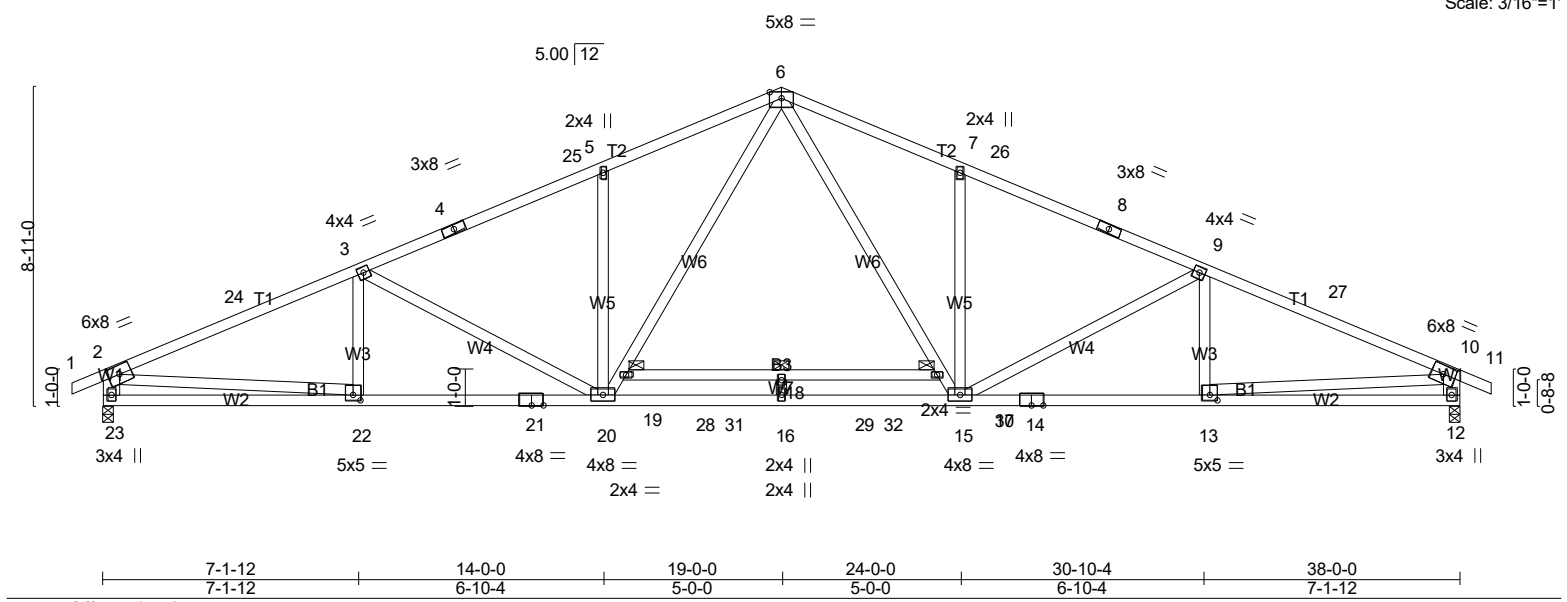
- NOTES-** (11)
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TC DL=5.0psf; BCDL=5.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 3-11-2, Interior(1) 3-11-2 to 14-0-0, Exterior(2R) 14-0-0 to 24-0-0, Interior(1) 24-0-0 to 32-8-2, Exterior(2E) 32-8-2 to 37-5-12 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
 - Unbalanced snow loads have been considered for this design.
 - This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
 - 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 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 22=163, 11=138.
 - This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



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Scale: 3/16"=1'



| LOADING (psf) | SPACING- | CSI. | DEFL. | PLATES | GRIP |
|------------------|----------------------|-----------|----------------------------|----------------|----------|
| TCLL (roof) 20.0 | 2-0-0 | TC 0.58 | in (loc) l/defl L/d | MT20 | 244/190 |
| Snow (Pf) 20.0 | Plate Grip DOL 1.15 | BC 0.90 | Vert(LL) -0.61 18 >733 240 | | |
| TCDL 10.0 | Lumber DOL 1.15 | WB 0.88 | Vert(CT) -1.01 18 >445 180 | | |
| BCLL 0.0 * | Rep Stress Incr YES | Matrix-AS | Horz(CT) 0.09 12 n/a n/a | | |
| BCDL 10.0 | Code IRC2021/TPI2014 | | | Weight: 236 lb | FT = 20% |

LUMBER-
 TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2 *Except*
 B3: 2x4 SP No.1, B2: 2x4 SP SS
 WEBS 2x4 SP No.3 *Except*
 W1: 2x6 SP No.2

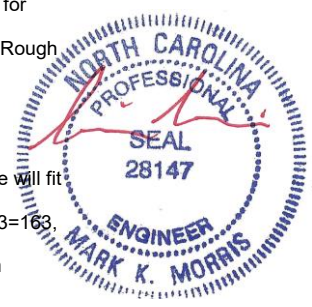
BRACING-
 TOP CHORD Structural wood sheathing directly applied, except end verticals.
 BOT CHORD Rigid ceiling directly applied. Except:
 6-0-0 oc bracing: 17-19

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

REACTIONS. (lb/size) 23=1658/0-3-8 (min. 0-1-15), 12=1658/0-3-8 (min. 0-1-15)
 Max Horz 23=100(LC 14)
 Max Uplift 23=-163(LC 14), 12=-163(LC 15)
 Max Grav 23=1660(LC 3), 12=1660(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-24=-2882/276, 3-24=-2809/289, 3-4=-2716/260, 4-25=-2649/282, 5-25=-2584/284,
 5-6=-2703/367, 6-7=-2703/367, 7-26=-2584/284, 8-26=-2649/282, 8-9=-2716/260,
 9-27=-2809/289, 10-27=-2882/276, 2-23=-1575/245, 10-12=-1575/245
 BOT CHORD 22-23=-183/495, 21-22=-253/2593, 20-21=-253/2593, 20-28=-7/1904, 16-28=-7/1904,
 16-29=-7/1904, 29-30=-7/1904, 15-30=-7/1904, 14-15=-162/2593, 13-14=-162/2593,
 12-13=-89/482
 WEBS 6-17=-156/1140, 15-17=-199/1025, 7-15=-482/190, 9-15=-371/175, 19-20=-200/1025,
 6-19=-156/1140, 5-20=-482/190, 3-20=-371/175, 2-22=-117/2133, 10-13=-117/2133

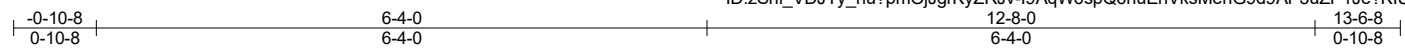
- NOTES-** (10)
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TC DL=5.0psf; BCDL=5.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 3-11-2, Interior(1) 3-11-2 to 14-0-0, Exterior(2R) 14-0-0 to 24-0-0, Interior(1) 24-0-0 to 34-0-14, Exterior(2E) 34-0-14 to 38-10-8 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
 - Unbalanced snow loads have been considered for this design.
 - This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
 - 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 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit 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) except (jt=lb) 23=163, 12=163.
 - This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



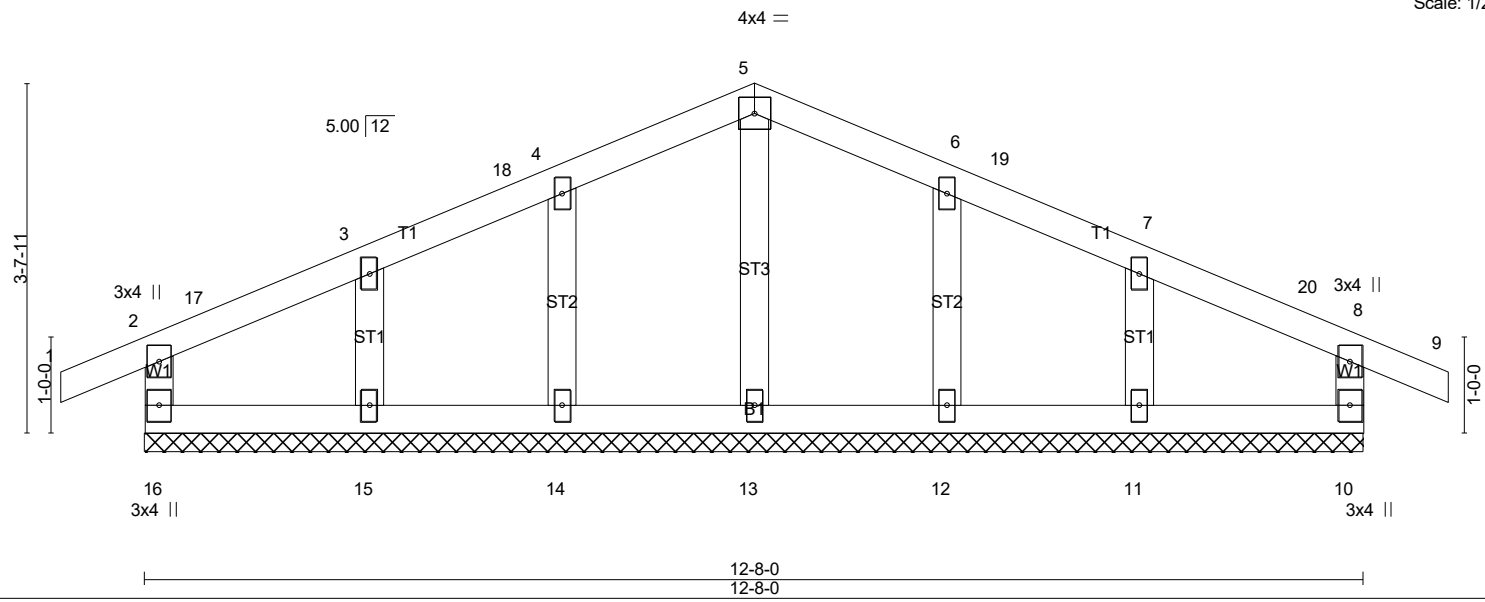
LOAD CASE(S) Standard

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1/15/2024



Scale: 1/2"=1'



| | | | | | |
|----------------------|----------------------|-------------|---------------------------|---------------|-------------|
| LOADING (psf) | SPACING- | CSI. | DEFL. | PLATES | GRIP |
| TCLL (roof) 20.0 | 2-0-0 | TC 0.12 | in (loc) l/defl L/d | MT20 | 244/190 |
| Snow (Pf) 20.0 | Plate Grip DOL 1.15 | BC 0.06 | Vert(LL) -0.00 9 n/r 180 | | |
| TCDL 10.0 | Lumber DOL 1.15 | WB 0.04 | Vert(CT) -0.00 9 n/r 80 | | |
| BCLL 0.0 * | Rep Stress Incr YES | Matrix-R | Horz(CT) -0.00 10 n/a n/a | | |
| BCDL 10.0 | Code IRC2021/TPI2014 | | | Weight: 59 lb | FT = 20% |

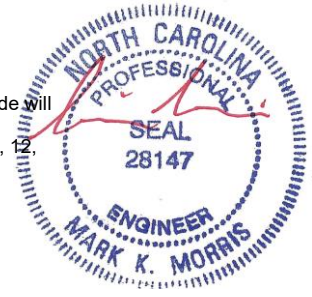
LUMBER-
 TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.3
 WEBS 2x4 SP No.3
 OTHERS 2x4 SP No.3

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
 MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. All bearings 12-8-0.
 (lb) - Max Horz 16=-23(LC 15)
 Max Uplift All uplift 100 lb or less at joint(s) 16, 10, 14, 15, 12, 11
 Max Grav All reactions 250 lb or less at joint(s) 16, 10, 13, 14, 15, 12, 11

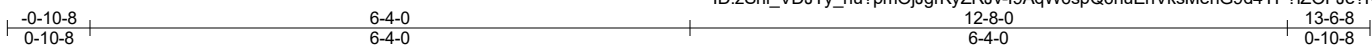
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

- NOTES-** (14)
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=5.0psf; BCDL=5.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3E) -0-10-8 to 3-11-2, Corner(3R) 3-11-2 to 8-8-14, Corner(3E) 8-8-14 to 13-6-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
 - Unbalanced snow loads have been considered for this design.
 - This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
 - Gable studs spaced at 2-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit 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) 16, 10, 14, 15, 12, 11.

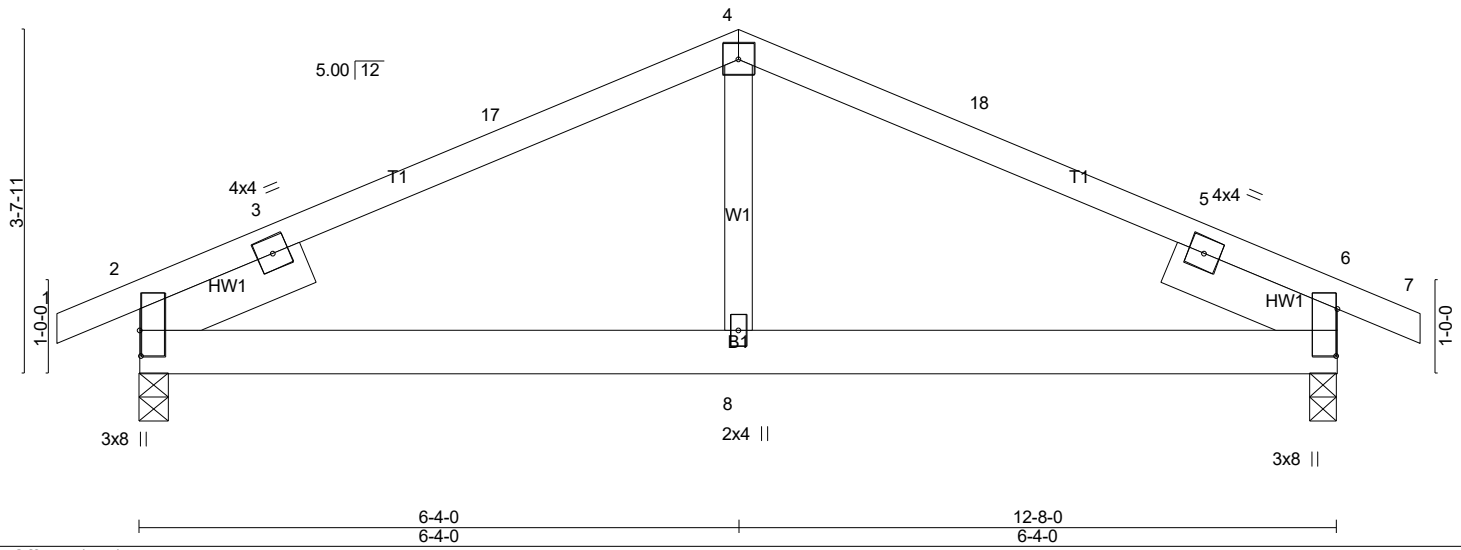


1/15/2024

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Scale = 1:24.4



| LOADING (psf) | | SPACING- | | CSI. | | DEFL. | | | | PLATES | GRIP |
|---------------|-------|----------------------|----------------|-----------|------|----------|------------|--------|-----|---------------|----------|
| TCLL (roof) | 20.0 | 2-0-0 | Plate Grip DOL | 1.15 | TC | 0.41 | in (loc) | l/defl | L/d | MT20 | 244/190 |
| Snow (Pf) | 20.0 | Lumber DOL | 1.15 | BC | 0.27 | Vert(LL) | -0.03 8-11 | >999 | 240 | | |
| TCDL | 10.0 | Rep Stress Incr | YES | WB | 0.09 | Vert(CT) | -0.04 8-11 | >999 | 180 | | |
| BCLL | 0.0 * | Code IRC2021/TPI2014 | | Matrix-AS | | Horz(CT) | 0.01 2 | n/a | n/a | | |
| BCDL | 10.0 | | | | | | | | | Weight: 66 lb | FT = 20% |

LUMBER-
 TOP CHORD 2x4 SP No.2
 BOT CHORD 2x6 SP No.2
 WEBS 2x4 SP No.3
 SLIDER Left 2x6 SP No.2 -° 1-11-0, Right 2x6 SP No.2 -° 1-11-0

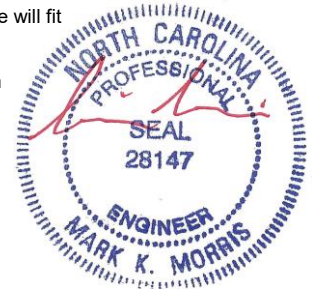
BRACING-
 TOP CHORD Structural wood sheathing directly applied.
 BOT CHORD Rigid ceiling directly applied.
 MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 2=559/0-3-8 (min. 0-1-8), 6=559/0-3-8 (min. 0-1-8)
 Max Horz 2=-45(LC 15)
 Max Uplift 2=-79(LC 14), 6=-79(LC 15)
 Max Grav 2=641(LC 21), 6=641(LC 22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 3-17=-625/249, 4-17=-597/258, 4-18=-597/258, 5-18=-625/249
 BOT CHORD 2-8=-136/552, 6-8=-136/552

- NOTES-** (10)
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCCL=5.0psf; BCDL=5.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 3-11-2, Exterior(2R) 3-11-2 to 8-8-14, Exterior(2E) 8-8-14 to 13-6-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - TCCL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
 - Unbalanced snow loads have been considered for this design.
 - This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
 - 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 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit 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) 2, 6.
 - This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard

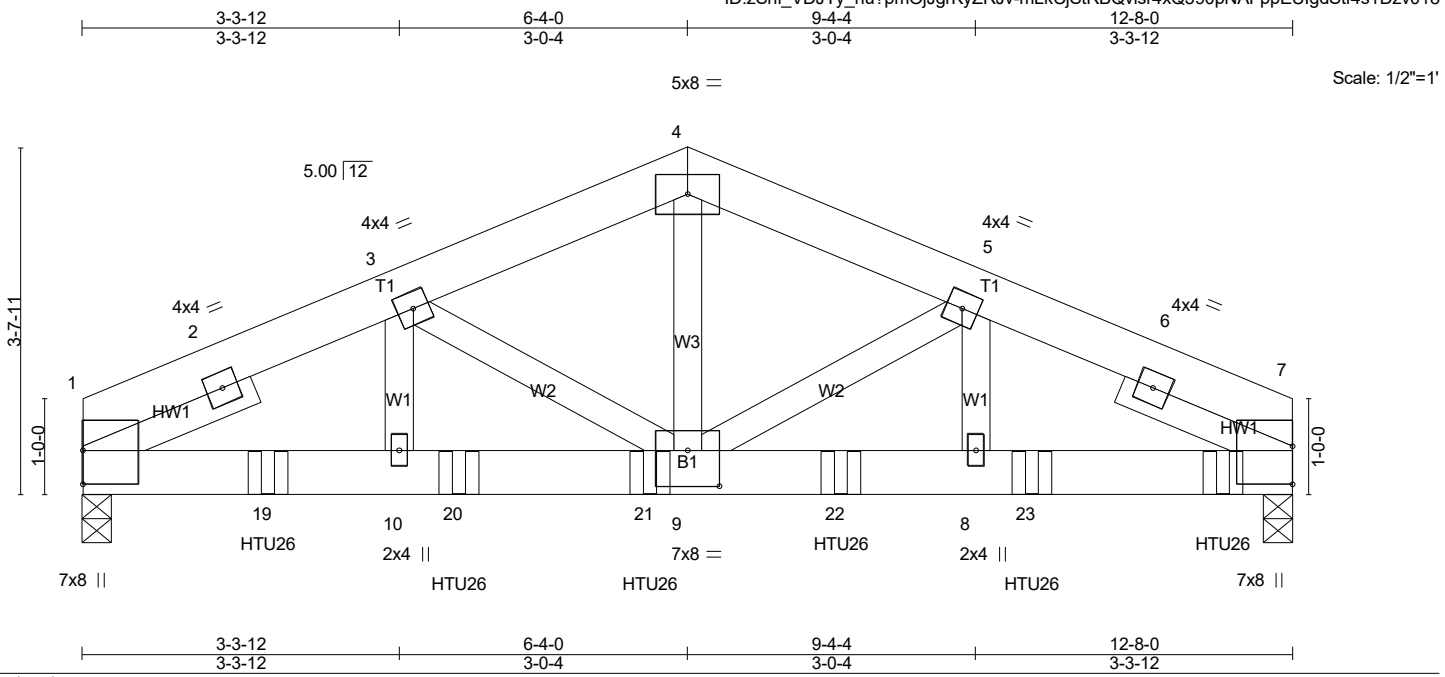


1/15/2024

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| | | | | | |
|-------------|-------|---------------|-----|-----|--|
| Job | Truss | Truss Type | Qty | Ply | LOT 61 PROVIDENCE CREEK 43 WINDSWEEP WAY FUGUAY-VARINA, NC |
| 24-0269-R01 | R07 | Common Girder | 1 | 2 | |
| | | | | | Job Reference (optional) # 44198 |

Run: 8.430 s Feb 12 2021 Print: 8.430 s Feb 12 2021 MiTek Industries, Inc. Mon Jan 15 20:45:25 2024 Page 1
 ID:zSnl_VDJTy_hu?pmOjJgrKyZRJv-mLkCjStfRBQvlsr4xQ390pNAFppEUlgdStf4s1Dzv018



Scale: 1/2"=1'

| | | | | | |
|---------------------------------------|----------------------|-------------|-----------------------------|----------------|-------------|
| Plate Offsets (X,Y)-- [9:0-4-0,0-4-8] | | | | | |
| LOADING (psf) | SPACING- | CSI. | DEFL. | PLATES | GRIP |
| TCLL (roof) 20.0 | 2-0-0 | TC 0.44 | in (loc) l/defl L/d | MT20 | 244/190 |
| Snow (Pf) 20.0 | Plate Grip DOL 1.15 | BC 0.74 | Vert(LL) -0.05 8-9 >999 240 | | |
| TCDL 10.0 | Lumber DOL 1.15 | WB 0.79 | Vert(CT) -0.11 8-9 >999 180 | | |
| BCLL 0.0 * | Rep Stress Incr NO | Matrix-MSH | Horz(CT) 0.03 7 n/a n/a | | |
| BCDL 10.0 | Code IRC2021/TPI2014 | | | Weight: 172 lb | FT = 20% |

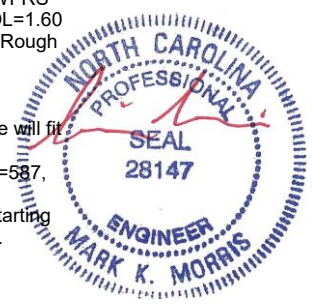
LUMBER-
 TOP CHORD 2x6 SP No.2
 BOT CHORD 2x6 SP No.1
 WEBS 2x4 SP No.3
 SLIDER Left 2x4 SP No.3 -° 1-11-0, Right 2x4 SP No.3 -° 1-11-0

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 5-6-11 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 1=4507/0-3-8 (min. 0-2-11), 7=5449/0-3-8 (min. 0-3-4)
 Max Horz 1=-39(LC 13)
 Max Uplift1=-587(LC 12), 7=-658(LC 13)
 Max Grav 1=4588(LC 18), 7=5530(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-4032/522, 2-3=-6984/910, 3-4=-5903/775, 4-5=-5908/776, 5-6=-7056/908, 6-7=-4238/527
 BOT CHORD 1-19=-819/6252, 10-19=-819/6252, 10-20=-819/6252, 20-21=-819/6252, 9-21=-819/6252, 9-22=-779/6341, 8-22=-779/6341, 8-23=-779/6341, 7-23=-779/6341
 WEBS 4-9=-477/3814, 5-9=-988/159, 5-8=-166/1508, 3-9=-884/159, 3-10=-171/1490

- NOTES-** (12)
- 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 0-6-0 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=120mph (3-second gust) Vasd=95mph; TCDL=5.0psf; BCDL=5.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
 - Unbalanced snow loads have been considered for this design.
 - 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 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit 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) except (jt=lb) 1=587, 7=658.
 - Use Simpson Strong-Tie HTU26 (20-10d Girder, 11-10dx1 1/2 Truss, Single Ply Girder) or equivalent spaced at 2-0-0 oc max. starting at 1-11-4 from the left end to 11-11-4 to connect truss(es) R02 (1 ply 2x4 SP), R02A (1 ply 2x4 SP) to back face of bottom chord.
 - Fill all nail holes where hanger is in contact with lumber.



1/15/2024

LOAD CASE(S) Standard

Continued on Page 2 Design parameters and read notes before use. This design is based only upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of building designer – not truss designer or truss engineer. Bracing shown is for lateral support of individual web members only. Additional temporary bracing to ensure stability during construction is the responsibility of the erector. Additional permanent bracing of the overall structure is the responsibility of the building designer. For general guidance regarding fabrication, quality control, storage, delivery, erection and bracing, consult ANSI/TPI 1 National Design Standard for Metal Plate Connected Wood Truss Construction and BCSI 1-03 Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses from Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719.

| | | | | | |
|--------------------|--------------|-----------------------------|----------|----------|---|
| Job 24-0269-R01 | Truss R07 | Truss Type Common Girder | Qty 1 | Ply 2 | LOT 61 PROVIDENCE CREEK 43 WINDSWEPT WAY FUQUAY-VARINA, NC Job Reference (optional) # 44198 |
|--------------------|--------------|-----------------------------|----------|----------|---|

Run: 8.430 s Feb 12 2021 Print: 8.430 s Feb 12 2021 MiTek Industries, Inc. Mon Jan 15 20:45:25 2024 Page 2
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LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-4=-60, 4-7=-60, 11-15=-20

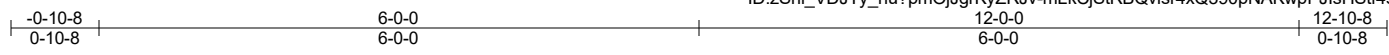
Concentrated Loads (lb)

Vert: 17=-1563(B) 19=-1476(B) 20=-1476(B) 21=-1476(B) 22=-1476(B) 23=-1476(B)

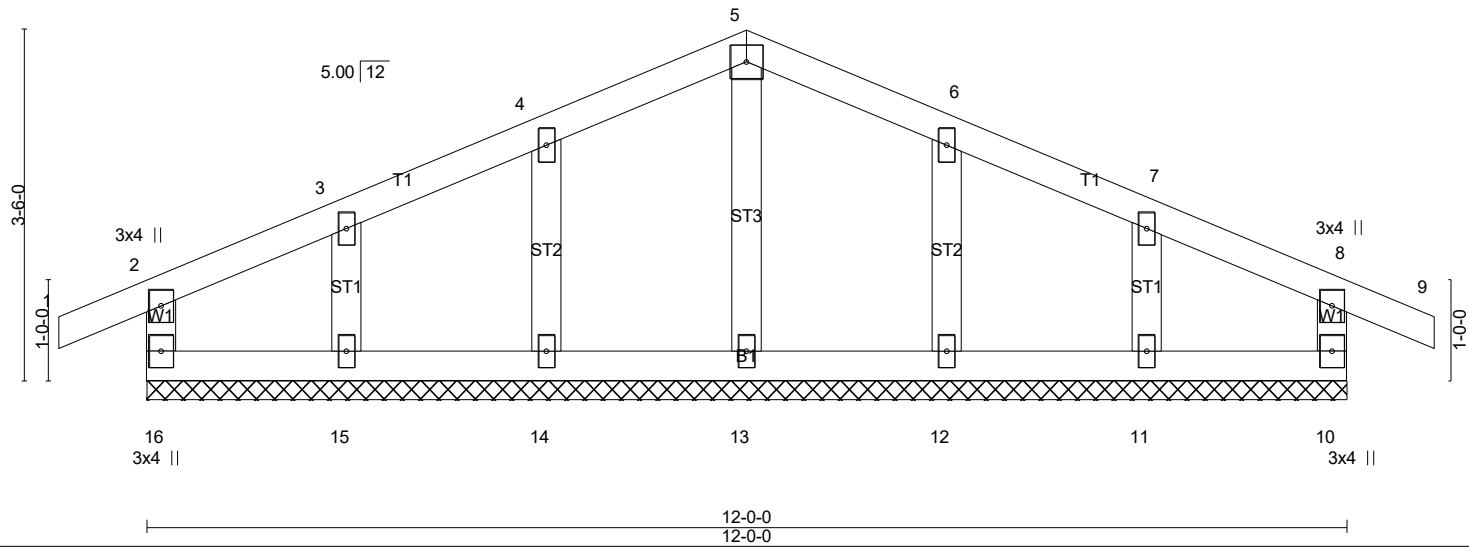


1/15/2024

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4x4 = Scale = 1:23.0



| | | | | | | | | | |
|----------------------|-------|----------------------|------------|-------------|------|--------------|-----------------|---------------|-------------|
| LOADING (psf) | | SPACING- | | CSI. | | DEFL. | | PLATES | GRIP |
| TCLL (roof) | 20.0 | Plate Grip DOL | 2-0-0 1.15 | TC | 0.12 | Vert(LL) | -0.00 9 n/r 180 | MT20 | 244/190 |
| Snow (Pf) | 20.0 | Lumber DOL | 1.15 | BC | 0.05 | Vert(CT) | -0.00 9 n/r 80 | | |
| TCDL | 10.0 | Rep Stress Incr | YES | WB | 0.04 | Horz(CT) | 0.00 10 n/a n/a | | |
| BCLL | 0.0 * | Code IRC2021/TPI2014 | | Matrix-R | | | | | |
| BCDL | 10.0 | | | | | | | Weight: 56 lb | FT = 20% |

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

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

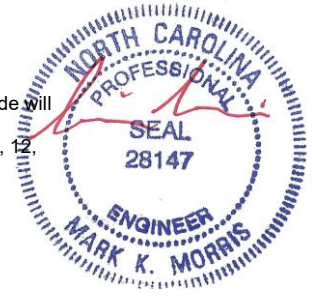
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. All bearings 12-0-0.
 (lb) - Max Horz 16=-21(LC 15)
 Max Uplift All uplift 100 lb or less at joint(s) 16, 10, 14, 15, 12, 11
 Max Grav All reactions 250 lb or less at joint(s) 16, 10, 13, 14, 15, 12, 11

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

- NOTES-** (14)
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=5.0psf; BCDL=5.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3E) -0-10-8 to 4-0-0, Corner(3R) 4-0-0 to 8-0-0, Corner(3E) 8-0-0 to 12-10-8 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - 4) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
 - 5) Unbalanced snow loads have been considered for this design.
 - 6) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
 - 7) All plates are 2x4 MT20 unless otherwise indicated.
 - 8) Gable requires continuous bottom chord bearing.
 - 9) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
 - 10) Gable studs spaced at 2-0-0 oc.
 - 11) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 12) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members.
 - 13) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 16, 10, 14, 15, 12, 11.

LOAD CASE(S) Standard

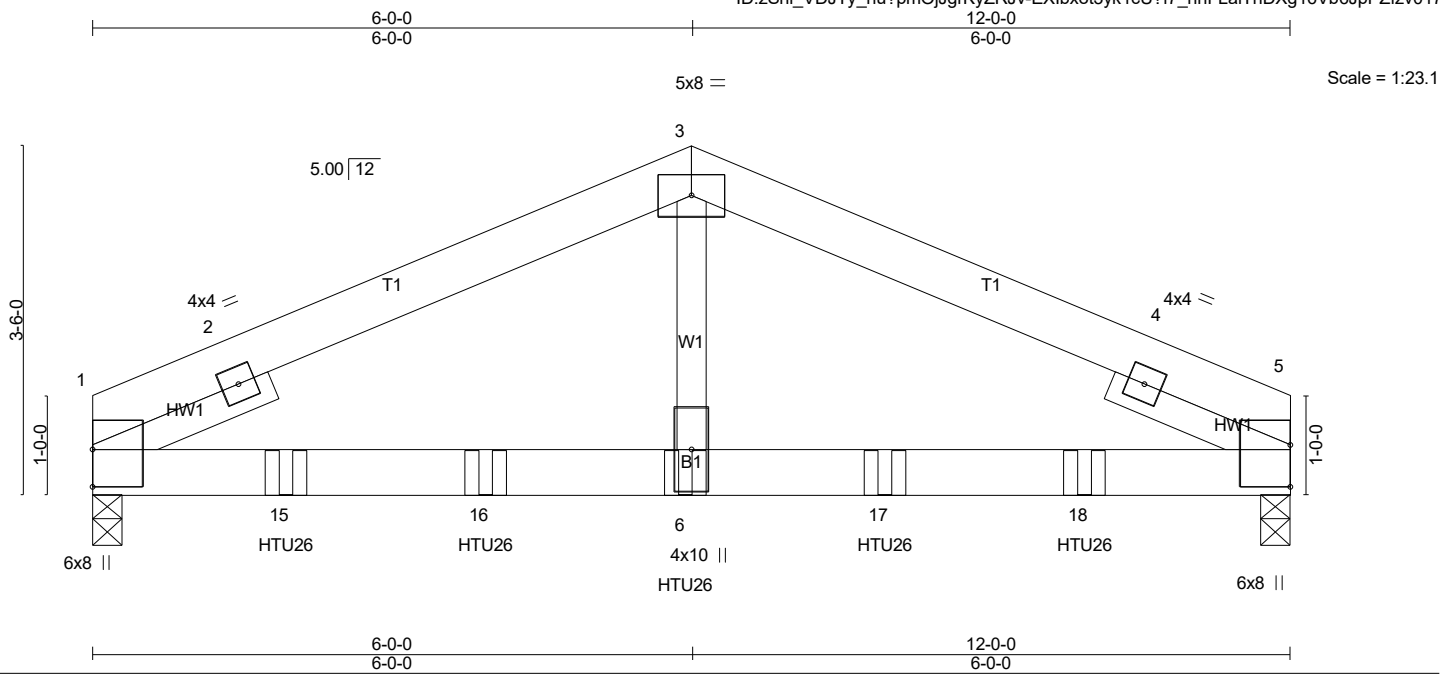


1/15/2024

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| | | | | | |
|-------------|-------|---------------|-----|-----|--|
| Job | Truss | Truss Type | Qty | Ply | LOT 61 PROVIDENCE CREEK 43 WINDSWEEP WAY FUGUAY-VARINA, NC |
| 24-0269-R01 | R09 | Common Girder | 1 | 2 | # 44198 |

Run: 8.430 s Feb 12 2021 Print: 8.430 s Feb 12 2021 MiTek Industries, Inc. Mon Jan 15 20:45:26 2024 Page 1
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| | | | | | |
|----------------------|----------------------|-------------|------------------------------|----------------|-------------|
| LOADING (psf) | SPACING- | CSI. | DEFL. | PLATES | GRIP |
| TCLL (roof) 20.0 | Plate Grip DOL 1.15 | TC 0.24 | in (loc) l/defl L/d | MT20 | 244/190 |
| Snow (Pf) 20.0 | Lumber DOL 1.15 | BC 0.94 | Vert(LL) -0.06 6-13 >999 240 | | |
| TCDL 10.0 | Rep Stress Incr NO | WB 0.88 | Vert(CT) -0.12 6-13 >999 180 | | |
| BCLL 0.0 * | Code IRC2021/TPI2014 | Matrix-MSH | Horz(CT) 0.02 5 n/a n/a | | |
| BCDL 10.0 | | | | Weight: 138 lb | FT = 20% |

LUMBER-
 TOP CHORD 2x6 SP No.2
 BOT CHORD 2x6 SP No.1
 WEBS 2x4 SP No.3
 SLIDER Left 2x4 SP No.3 -° 1-11-0, Right 2x4 SP No.3 -° 1-11-0

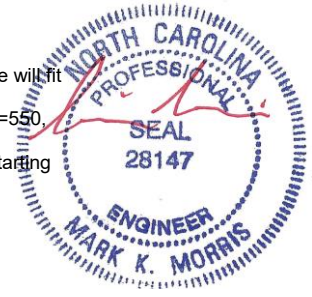
BRACING-
 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 1=4200/0-3-8 (min. 0-2-8), 5=4139/0-3-8 (min. 0-2-8)
 Max Horz 1=37(LC 12)
 Max Uplift 1=-550(LC 12), 5=-542(LC 13)
 Max Grav 1=4276(LC 18), 5=4215(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-4228/525, 2-3=-5873/780, 3-4=-5874/780, 4-5=-4210/523
 BOT CHORD 1-15=-682/5389, 15-16=-682/5389, 6-16=-682/5389, 6-17=-682/5389, 17-18=-682/5389, 5-18=-682/5389
 WEBS 3-6=-502/4236

- NOTES-** (12)
- 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 0-6-0 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=120mph (3-second gust) Vasd=95mph; TC DL=5.0psf; BC DL=5.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.0; Ct=1.10
 - Unbalanced snow loads have been considered for this design.
 - 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 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit 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) except (jt=lb) 1=550, 5=542.
 - Use Simpson Strong-Tie HTU26 (20-10d Girder, 11-10dx1 1/2 Truss, Single Ply Girder) or equivalent spaced at 2-0-0 oc max. starting at 1-11-4 from the left end to 9-11-4 to connect truss(es) R02 (1 ply 2x4 SP) to back face of bottom chord.
 - Fill all nail holes where hanger is in contact with lumber.

LOAD CASE(S) Standard
 1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15



1/15/2024

Continued on page 2
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| | | | | | |
|-------------|-------|---------------|-----|-----|--|
| Job | Truss | Truss Type | Qty | Ply | LOT 61 PROVIDENCE CREEK 43 WINDSWEPT WAY FUQUAY-VARINA, NC |
| 24-0269-R01 | R09 | Common Girder | 1 | 2 | Job Reference (optional) # 44198 |

Run: 8.430 s Feb 12 2021 Print: 8.430 s Feb 12 2021 MiTek Industries, Inc. Mon Jan 15 20:45:26 2024 Page 2
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LOAD CASE(S) Standard

Uniform Loads (plf)

Vert: 1-3=-60, 3-5=-60, 7-11=-20

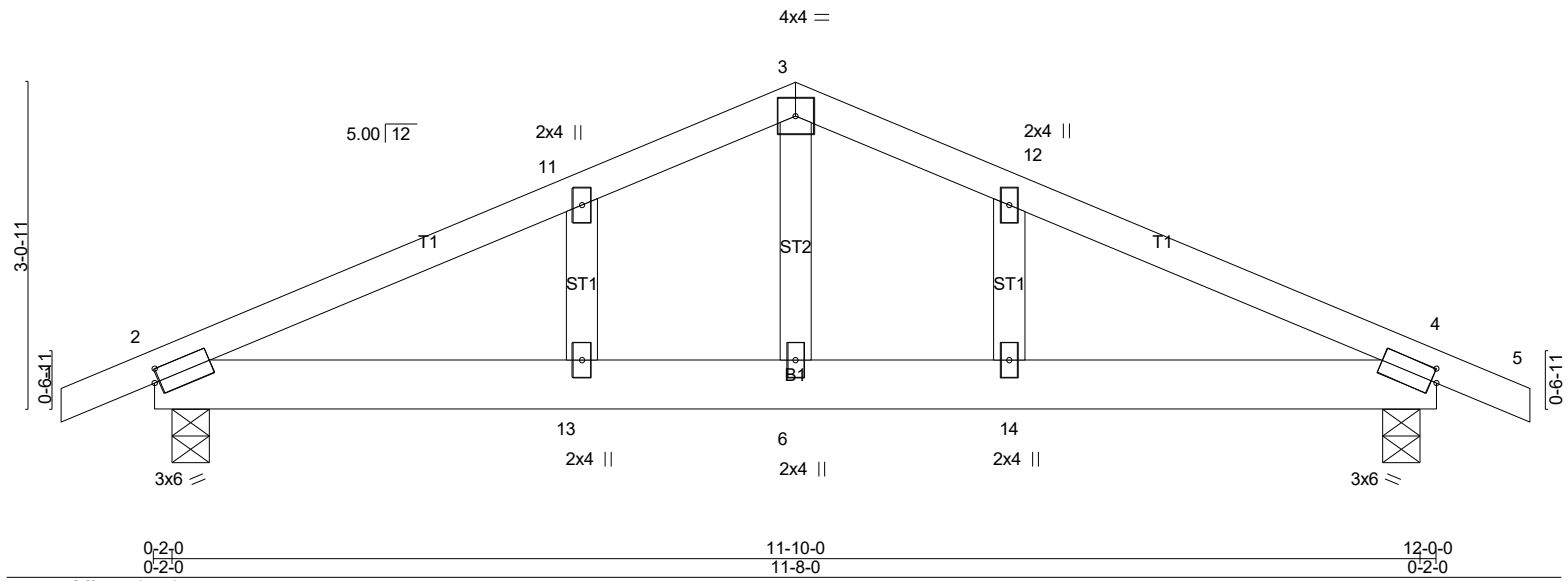
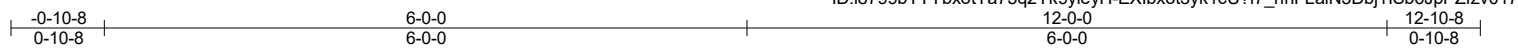
Concentrated Loads (lb)

Vert: 6=-1476(B) 15=-1476(B) 16=-1476(B) 17=-1476(B) 18=-1476(B)



1/15/2024

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| | | | | | | | | | | | | | |
|--|--|-------------|--------|----------------|----------|------------|----------|-----------------|-----------|----------------------|----------|--------|---------|
| Plate Offsets (X,Y)-- [2:0-0-10,0-1-8], [4:0-0-10,0-1-8] | | | | | | | | | | | | | |
| LOADING (psf) | <table style="width:100%; border-collapse: collapse;"> <tr><td>TCLL (roof)</td><td>20.0</td></tr> <tr><td>Snow (Pf)</td><td>20.0</td></tr> <tr><td>TCDL</td><td>10.0</td></tr> <tr><td>BCLL</td><td>0.0 *</td></tr> <tr><td>BCDL</td><td>10.0</td></tr> </table> | TCLL (roof) | 20.0 | Snow (Pf) | 20.0 | TCDL | 10.0 | BCLL | 0.0 * | BCDL | 10.0 | | |
| TCLL (roof) | 20.0 | | | | | | | | | | | | |
| Snow (Pf) | 20.0 | | | | | | | | | | | | |
| TCDL | 10.0 | | | | | | | | | | | | |
| BCLL | 0.0 * | | | | | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | | | |
| SPACING- | <table style="width:100%; border-collapse: collapse;"> <tr><td>2-0-0</td><td></td></tr> <tr><td>Plate Grip DOL</td><td>1.15</td></tr> <tr><td>Lumber DOL</td><td>1.15</td></tr> <tr><td>Rep Stress Incr</td><td>YES</td></tr> <tr><td>Code IRC2021/TPI2014</td><td></td></tr> </table> | 2-0-0 | | Plate Grip DOL | 1.15 | Lumber DOL | 1.15 | Rep Stress Incr | YES | Code IRC2021/TPI2014 | | | |
| 2-0-0 | | | | | | | | | | | | | |
| Plate Grip DOL | 1.15 | | | | | | | | | | | | |
| Lumber DOL | 1.15 | | | | | | | | | | | | |
| Rep Stress Incr | YES | | | | | | | | | | | | |
| Code IRC2021/TPI2014 | | | | | | | | | | | | | |
| CSI. | <table style="width:100%; border-collapse: collapse;"> <tr><td>TC</td><td>0.60</td></tr> <tr><td>BC</td><td>0.68</td></tr> <tr><td>WB</td><td>0.11</td></tr> <tr><td>Matrix-SH</td><td></td></tr> </table> | TC | 0.60 | BC | 0.68 | WB | 0.11 | Matrix-SH | | | | | |
| TC | 0.60 | | | | | | | | | | | | |
| BC | 0.68 | | | | | | | | | | | | |
| WB | 0.11 | | | | | | | | | | | | |
| Matrix-SH | | | | | | | | | | | | | |
| DEFL. | <table style="width:100%; border-collapse: collapse;"> <tr><td>in (loc)</td><td>l/defl</td><td>L/d</td></tr> <tr><td>Vert(LL)</td><td>0.04 4-6</td><td>>999 240</td></tr> <tr><td>Vert(CT)</td><td>-0.05 4-6</td><td>>999 180</td></tr> <tr><td>Horz(CT)</td><td>0.01 4</td><td>n/a n/a</td></tr> </table> | in (loc) | l/defl | L/d | Vert(LL) | 0.04 4-6 | >999 240 | Vert(CT) | -0.05 4-6 | >999 180 | Horz(CT) | 0.01 4 | n/a n/a |
| in (loc) | l/defl | L/d | | | | | | | | | | | |
| Vert(LL) | 0.04 4-6 | >999 240 | | | | | | | | | | | |
| Vert(CT) | -0.05 4-6 | >999 180 | | | | | | | | | | | |
| Horz(CT) | 0.01 4 | n/a n/a | | | | | | | | | | | |
| PLATES | MT20 | | | | | | | | | | | | |
| GRIP | 244/190 | | | | | | | | | | | | |
| Weight: 58 lb FT = 20% | | | | | | | | | | | | | |

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

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 5-5-5 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 9-3-9 oc bracing.

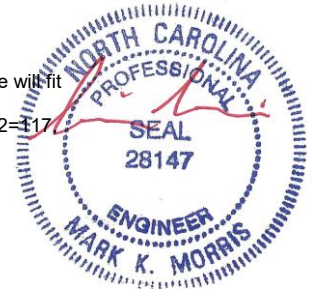
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 2=529/0-4-0 (min. 0-1-8), 4=529/0-4-0 (min. 0-1-8)
 Max Horz 2=-38(LC 15)
 Max Uplift 2=-117(LC 10), 4=-117(LC 11)
 Max Grav 2=623(LC 21), 4=623(LC 22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-11=-770/724, 3-11=-629/735, 3-12=-629/735, 4-12=-770/724
 BOT CHORD 2-13=-578/589, 6-13=-578/589, 6-14=-578/589, 4-14=-578/589
 WEBS 3-6=-393/296

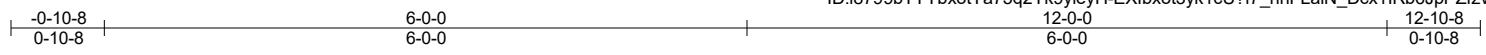
- NOTES-** (11)
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TC DL=5.0psf; BC DL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3E) -0-10-8 to 3-11-2, Corner(3R) 3-11-2 to 8-0-14, Corner(3E) 8-0-14 to 12-10-8 zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 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) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
 - 5) Unbalanced snow loads have been considered for this design.
 - 6) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
 - 7) Gable studs spaced at 2-0-0 oc.
 - 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 9) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members.
 - 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=-117 4=117.

LOAD CASE(S) Standard

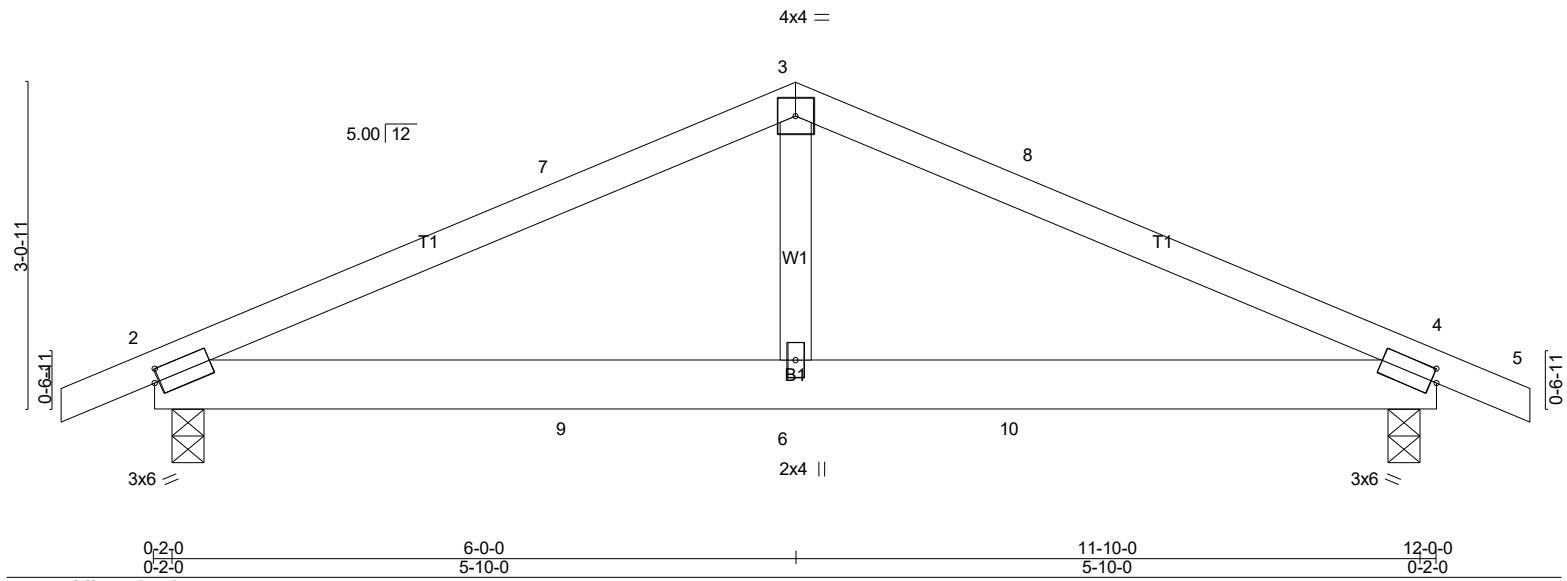


1/15/2024

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Scale = 1:21.6



| Plate Offsets (X,Y)-- [2:0-0-10,0-1-8], [4:0-0-10,0-1-8] | | LOADING (psf) | | SPACING- | | CSI. | | DEFL. | | | | PLATES | | GRIP | |
|--|--------|---------------|-------|----------------------|----------------------|-----------|-------|-------|--------|-----|------|---------|--|------|--|
| 0-2-0 | 0-2-0 | 20.0 | 20.0 | 2-0-0 | 2-0-0 | TC 0.61 | in | (loc) | l/defl | L/d | MT20 | 244/190 | | | |
| 6-0-0 | 5-10-0 | 10.0 | 10.0 | 1.15 | 1.15 | BC 0.60 | -0.03 | 4-6 | >999 | 240 | | | | | |
| | | 0.0 * | 0.0 * | YES | YES | WB 0.11 | -0.05 | 4-6 | >999 | 180 | | | | | |
| | | 10.0 | 10.0 | Code IRC2021/TPI2014 | Code IRC2021/TPI2014 | Matrix-SH | 0.01 | 4 | n/a | n/a | | | | | |
| Weight: 54 lb FT = 20% | | | | | | | | | | | | | | | |

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

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 5-4-14 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 9-6-0 oc bracing.

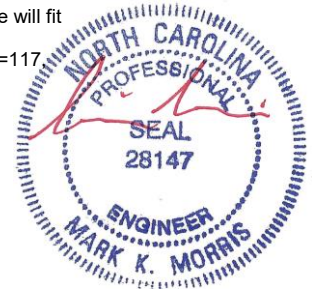
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 2=530/0-3-8 (min. 0-1-8), 4=530/0-3-8 (min. 0-1-8)
 Max Horz 2=-38(LC 15)
 Max Uplift 2=-117(LC 10), 4=-117(LC 11)
 Max Grav 2=624(LC 21), 4=624(LC 22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-7=-775/690, 3-7=-633/701, 3-8=-633/701, 4-8=-775/690
 BOT CHORD 2-9=-559/594, 6-9=-559/594, 6-10=-559/594, 4-10=-559/594
 WEBS 3-6=-379/297

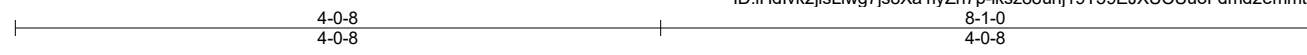
- NOTES-** (9)
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TC DL=5.0psf; BC DL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 3-11-2, Exterior(2R) 3-11-2 to 8-0-14, Exterior(2E) 8-0-14 to 12-10-8 zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
 - Unbalanced snow loads have been considered for this design.
 - This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
 - 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 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit 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) except (jt=lb) 2=117 4=117.

LOAD CASE(S) Standard

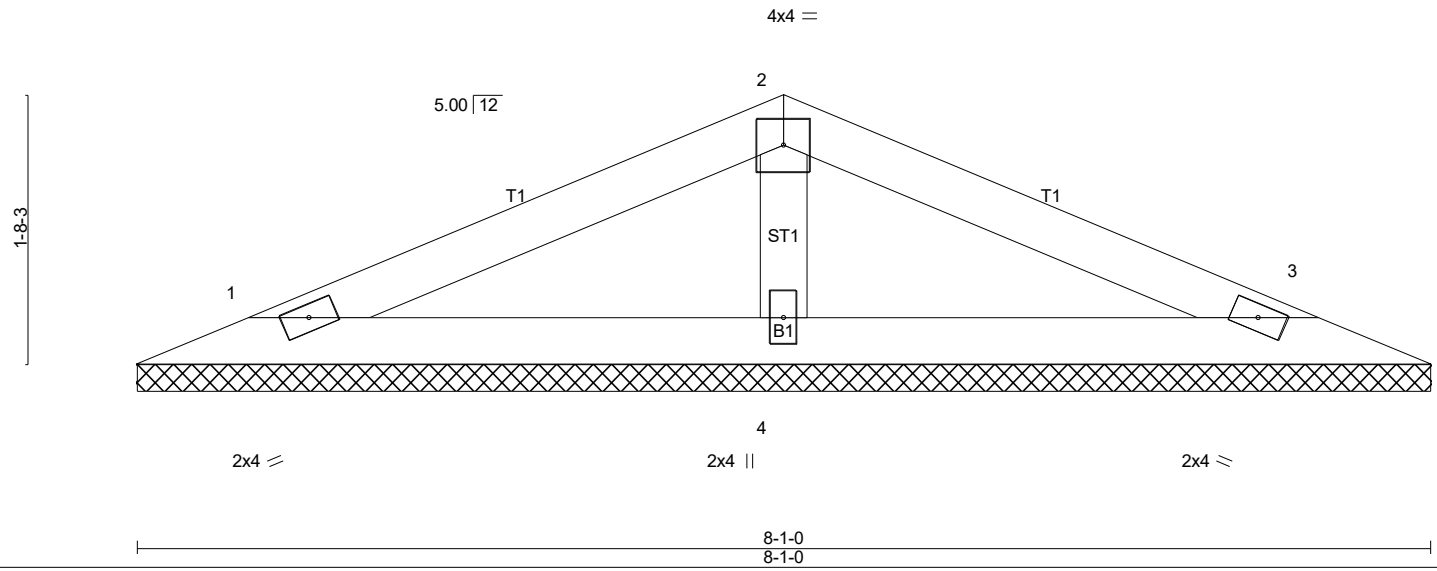


1/15/2024

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Scale = 1:14.4



| LOADING (psf) | SPACING- | CSI. | DEFL. | PLATES | GRIP |
|------------------|----------------------|----------|-------------------------|---------------|----------|
| TCLL (roof) 20.0 | 2-0-0 | TC 0.29 | in (loc) l/defl L/d | MT20 | 244/190 |
| Snow (Pf) 20.0 | Plate Grip DOL 1.15 | BC 0.19 | Vert(LL) n/a - n/a 999 | | |
| TCDL 10.0 | Lumber DOL 1.15 | WB 0.04 | Vert(CT) n/a - n/a 999 | | |
| BCLL 0.0 * | Rep Stress Incr YES | Matrix-P | Horz(CT) 0.00 3 n/a n/a | | |
| BCDL 10.0 | Code IRC2021/TPI2014 | | | Weight: 24 lb | FT = 20% |

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

BRACING-
 TOP CHORD
 BOT CHORD

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

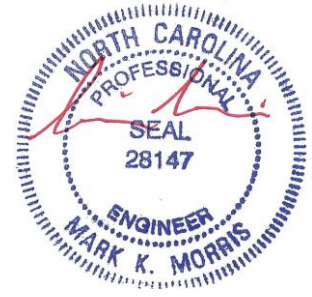
REACTIONS. (lb/size) 1=130/8-1-0 (min. 0-1-8), 3=130/8-1-0 (min. 0-1-8), 4=269/8-1-0 (min. 0-1-8)
 Max Horz 1=-21(LC 19)
 Max Uplift 1=-29(LC 14), 3=-33(LC 15), 4=-8(LC 14)
 Max Grav 1=172(LC 20), 3=172(LC 21), 4=269(LC 1)

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

NOTES- (9)

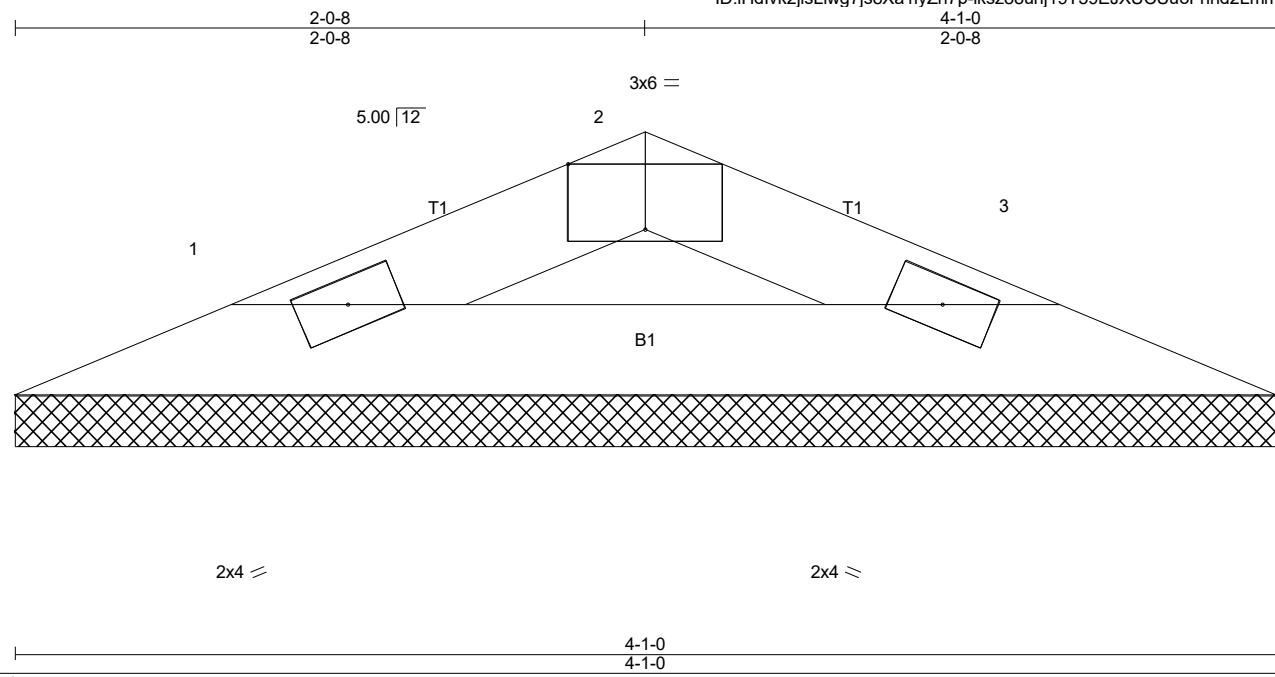
- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=5.0psf; BCDL=5.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 4) Unbalanced snow loads have been considered for this design.
- 5) Gable requires continuous bottom chord bearing.
- 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 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3, 4.

LOAD CASE(S) Standard



1/15/2024

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| LOADING (psf) | | SPACING- | | CSI. | | DEFL. | | | | PLATES | GRIP | |
|---------------|-------|----------------------|------|----------|------|----------|------|---|-----|--------|------|------------------------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.03 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| Snow (Pf) | 20.0 | Lumber DOL | 1.15 | BC | 0.14 | Vert(CT) | n/a | - | n/a | 999 | | |
| TCDL | 10.0 | Rep Stress Incr | YES | WB | 0.00 | Horz(CT) | 0.00 | 3 | n/a | n/a | | |
| BCLL | 0.0 * | Code IRC2021/TPI2014 | | Matrix-P | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | | Weight: 10 lb FT = 20% |

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-1-0 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=105/4-1-0 (min. 0-1-8), 3=105/4-1-0 (min. 0-1-8)
Max Horz 1=-8(LC 15)
Max Uplift 1=-13(LC 14), 3=-13(LC 15)
Max Grav 1=111(LC 20), 3=111(LC 21)

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

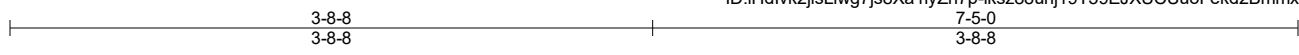
- NOTES-** (9)
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=5.0psf; BCDL=5.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
 - Unbalanced snow loads have been considered for this design.
 - 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 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit 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.

LOAD CASE(S) Standard

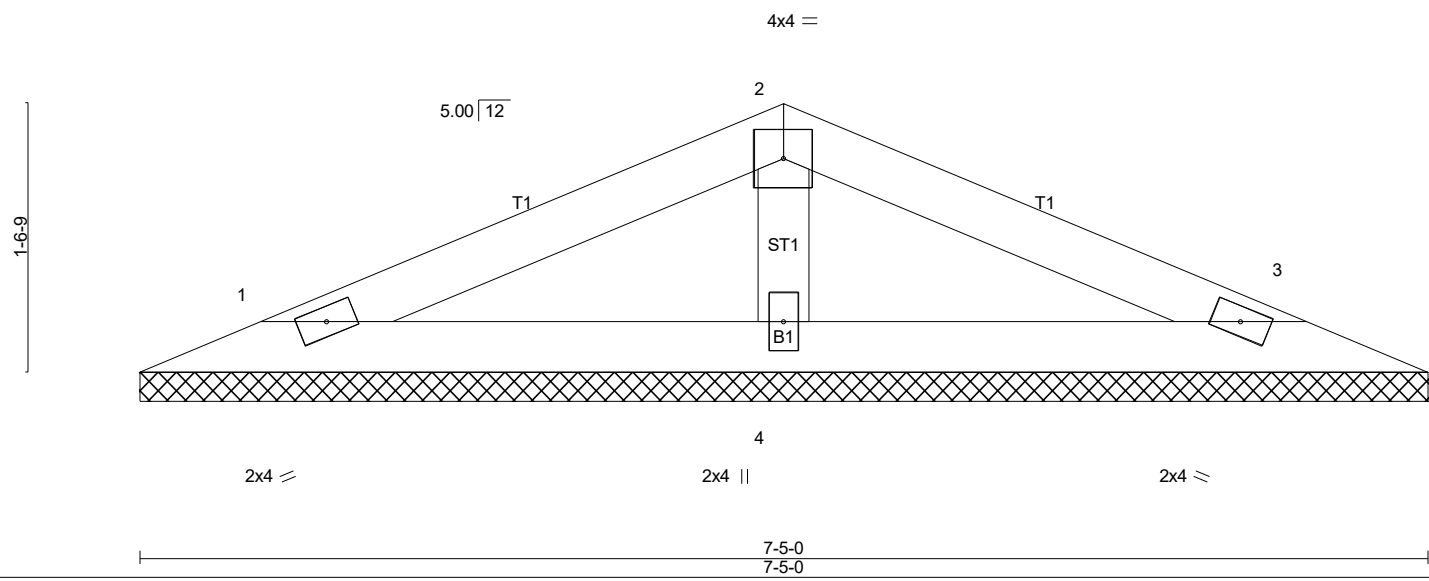


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Scale = 1:13.3



| LOADING (psf) | SPACING- | CSI. | DEFL. | PLATES | GRIP |
|------------------|----------------------|----------|-------------------------|---------------|----------|
| TCLL (roof) 20.0 | 2-0-0 | TC 0.22 | in (loc) l/defl L/d | MT20 | 244/190 |
| Snow (Pf) 20.0 | Plate Grip DOL 1.15 | BC 0.15 | Vert(LL) n/a - n/a 999 | | |
| TCDL 10.0 | Lumber DOL 1.15 | WB 0.03 | Vert(CT) n/a - n/a 999 | | |
| BCLL 0.0 * | Rep Stress Incr YES | Matrix-P | Horz(CT) 0.00 3 n/a n/a | | |
| BCDL 10.0 | Code IRC2021/TPI2014 | | | Weight: 22 lb | FT = 20% |

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

BRACING-
 TOP CHORD
 BOT CHORD

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

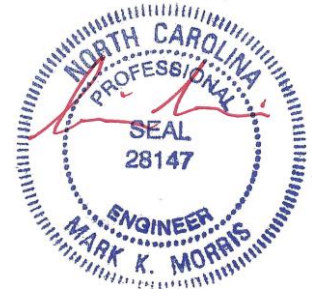
REACTIONS. (lb/size) 1=117/7-5-0 (min. 0-1-8), 3=117/7-5-0 (min. 0-1-8), 4=242/7-5-0 (min. 0-1-8)
 Max Horz 1=-18(LC 15)
 Max Uplift 1=-26(LC 14), 3=-29(LC 15), 4=-8(LC 14)
 Max Grav 1=152(LC 20), 3=152(LC 21), 4=242(LC 1)

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

NOTES- (9)

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=5.0psf; BCDL=5.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 4) Unbalanced snow loads have been considered for this design.
- 5) Gable requires continuous bottom chord bearing.
- 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 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3, 4.

LOAD CASE(S) Standard



1/15/2024

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