

Trenco
818 Soundside Rd
Edenton, NC 27932

Re: 150_1910_C_10x10CP
150.1910 C_10x10CP

The truss drawing(s) referenced below have been prepared by Truss Engineering Co. under my direct supervision based on the parameters provided by 84 Components - #2383.

Pages or sheets covered by this seal: I57773963 thru I57774002

My license renewal date for the state of North Carolina is December 31, 2023.

North Carolina COA: C-0844



April 14, 2023

Gilbert, Eric

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

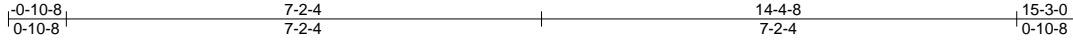
| | | | | | | |
|--------------------|-------|------------|-----|-----|--------------------|-----------|
| Job | Truss | Truss Type | Qty | Ply | 150.1910 C_10x10CP | 157773963 |
| 150_1910_C_10X10CP | A1 | Common | 1 | 1 | | |

84 Components (Dunn, NC),

Dunn, NC - 28334,

8.630 s Nov 19 2022 MiTek Industries, Inc. Thu Apr 13 16:05:43 2023 Page 1

ID:VMD62rz1yiHD_OqRtbnrlFztQ8K-DGJg898777PIf2d05sOoswXf5VLqF5nz0Wn7HzR4bM



4x6 ==

Scale = 1:34.8

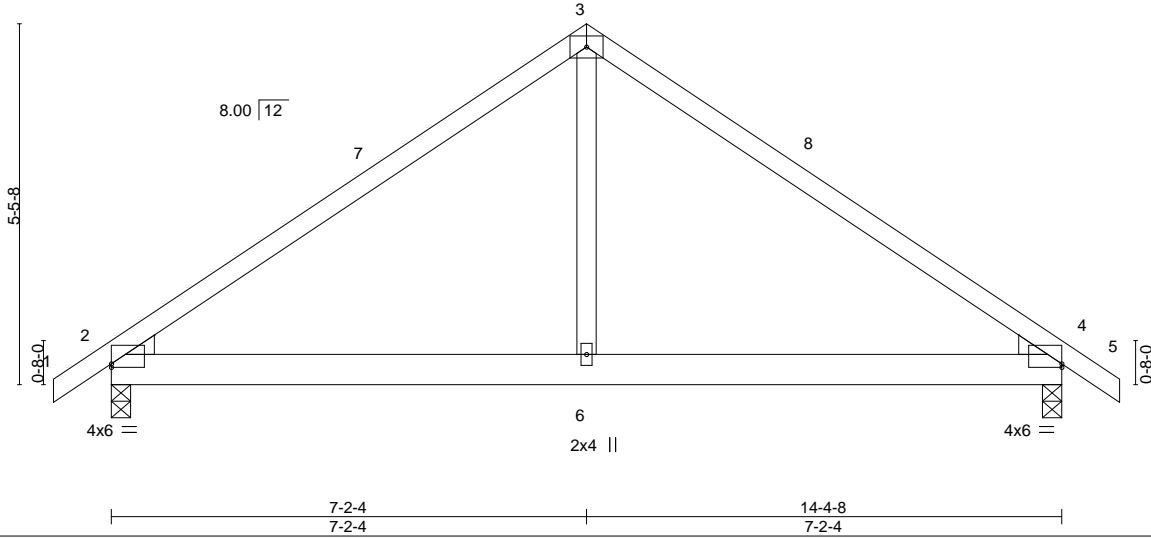


Plate Offsets (X,Y)-- [2:0-0-0,0-0-10], [4:Edge,0-0-10]

| LOADING (psf) | SPACING- | CSI. | DEFL. | PLATES | GRIP |
|------------------------|----------------------|----------|-----------------------------|---------------|----------|
| TCLL (roof) 20.0 | 2-0-0 | TC 0.59 | in (loc) l/defl L/d | MT20 | 244/190 |
| Snow (Pf/Pg) 11.6/15.0 | Plate Grip DOL 1.15 | BC 0.31 | Vert(LL) -0.03 4-6 >999 240 | | |
| TCDL 10.0 | Lumber DOL 1.15 | WB 0.14 | Vert(CT) -0.05 4-6 >999 180 | | |
| BCLL 0.0 * | Rep Stress Incr YES | Matrix-S | Horz(CT) 0.01 4 n/a n/a | | |
| BCDL 10.0 | Code IRC2018/TPI2014 | | | Weight: 71 lb | FT = 20% |

LUMBER-

TOP CHORD 2x4 SP No.2
 BOT CHORD 2x6 SP No.2
 WEBS 2x4 SP No.3
 WEDGE
 Left: 2x4 SP No.3 , Right: 2x4 SP No.3

BRACING-

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

REACTIONS.

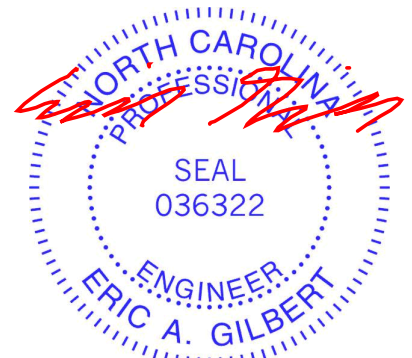
(size) 2=0-3-8, 4=0-3-8
 Max Horz 2=-126(LC 12)
 Max Uplift 2=-67(LC 14), 4=-67(LC 15)
 Max Grav 2=625(LC 2), 4=625(LC 2)

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

TOP CHORD 2-3=-689/118, 3-4=-689/118
 BOT CHORD 2-6=0/455, 4-6=0/455
 WEBS 3-6=0/366

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 7-2-4, Exterior(2R) 7-2-4 to 10-2-4, Interior(1) 10-2-4 to 15-3-0 zone; 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); Pg=15.0 psf; Pf=11.6 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
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.6 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 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 4. This connection is for uplift only and does not consider lateral forces.
- 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.



April 14, 2023

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



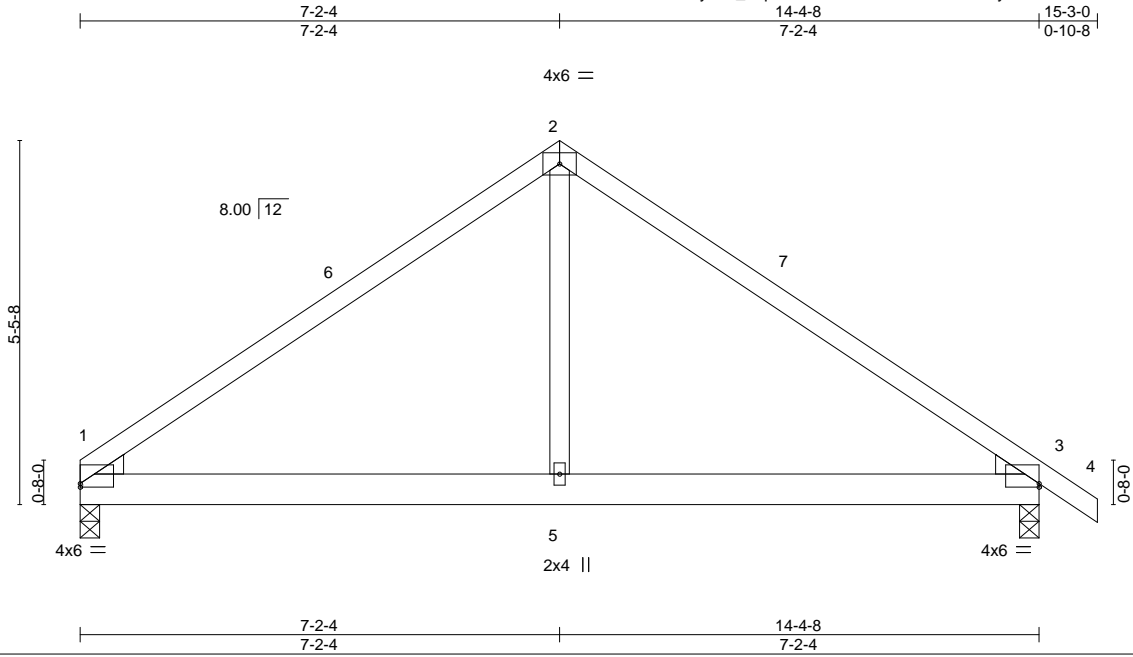
818 Soundside Road
 Edenton, NC 27932

| | | | | | | |
|--------------------|-------|------------|-----|-----|--------------------|-----------|
| Job | Truss | Truss Type | Qty | Ply | 150.1910 C_10x10CP | 157773964 |
| 150_1910_C_10X10CP | A2 | Common | 3 | 1 | | |

84 Components (Dunn, NC),

Dunn, NC - 28334,

8.630 s Nov 19 2022 MiTek Industries, Inc. Thu Apr 13 16:05:45 2023 Page 1
ID:VMD62rz1yiHD_OqRtbnrIFztQ8K-9eQQZrANfkf?UyB?8WustH?rXvBhI9b4QK?iCAzR4bK



Scale = 1:34.5

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

| LOADING (psf) | SPACING- | CSI. | DEFL. | PLATES | GRIP |
|------------------------|----------------------|----------|-----------------------------|---------------|----------|
| TCLL (roof) 20.0 | 2-0-0 | TC 0.76 | in (loc) l/defl L/d | MT20 | 244/190 |
| Snow (Pf/Pg) 11.6/15.0 | Plate Grip DOL 1.15 | BC 0.32 | Vert(LL) -0.03 3-5 >999 240 | | |
| TCDL 10.0 | Lumber DOL 1.15 | WB 0.14 | Vert(CT) -0.05 3-5 >999 180 | | |
| BCLL 0.0 * | Rep Stress Incr YES | Matrix-S | Horz(CT) 0.01 3 n/a n/a | | |
| BCDL 10.0 | Code IRC2018/TPI2014 | | | Weight: 70 lb | FT = 20% |

LUMBER-

TOP CHORD 2x4 SP No.2
 BOT CHORD 2x6 SP No.2
 WEBS 2x4 SP No.3
 WEDGE
 Left: 2x4 SP No.3 , Right: 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-11-6 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

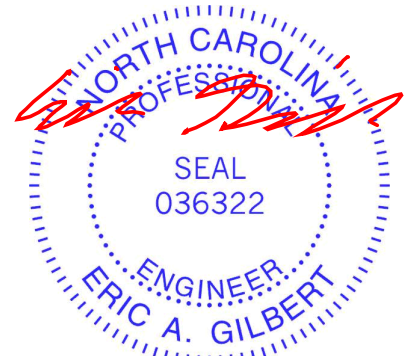
(size) 1=0-3-8, 3=0-3-8
 Max Horz 1=-124(LC 10)
 Max Uplift 1=-47(LC 14), 3=-68(LC 15)
 Max Grav 1=561(LC 2), 3=627(LC 2)

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

TOP CHORD 1-2=-684/114, 2-3=-691/117
 BOT CHORD 1-5=0/457, 3-5=0/457
 WEBS 2-5=0/363

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 7-2-4, Exterior(2R) 7-2-4 to 10-2-4, Interior(1) 10-2-4 to 15-3-0 zone; 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); Pg=15.0 psf; Pf=11.6 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
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.6 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 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 1 and 3. This connection is for uplift only and does not consider lateral forces.
- 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.



April 14, 2023

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

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



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 Edenton, NC 27932

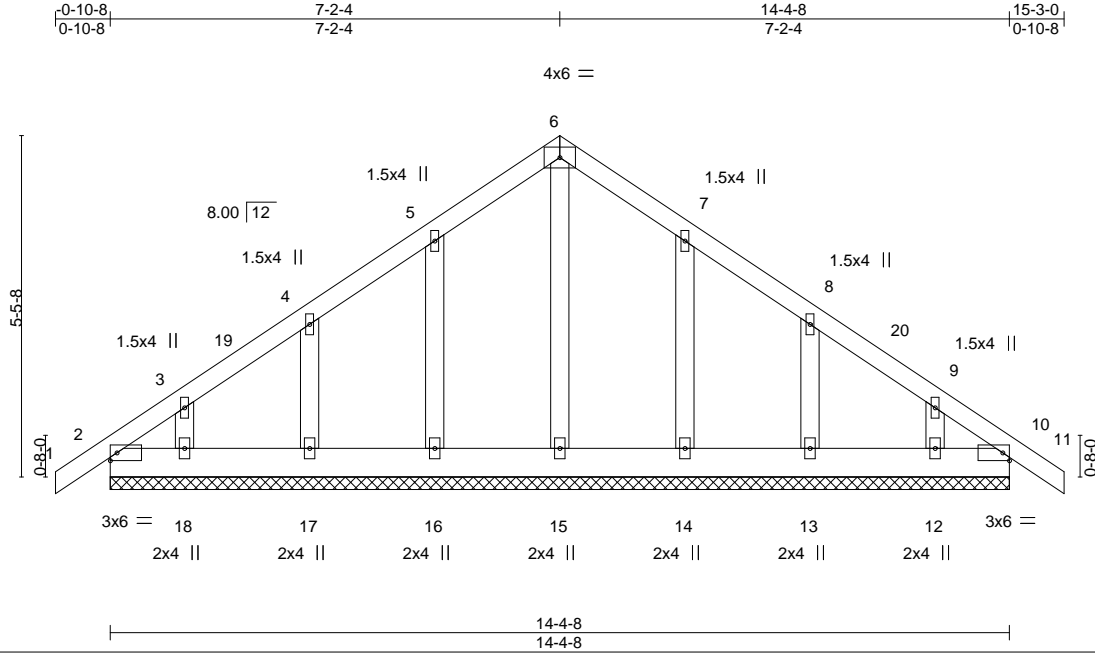
| | | | | | | |
|--------------------|-------|------------------------|-----|-----|--------------------|-----------|
| Job | Truss | Truss Type | Qty | Ply | 150.1910 C_10x10CP | 157773965 |
| 150_1910_C_10X10CP | AE | Common Supported Gable | 1 | 1 | | |

84 Components (Dunn, NC),

Dunn, NC - 28334,

8.630 s Nov 19 2022 MiTek Industries, Inc. Thu Apr 13 16:05:47 2023 Page 1

ID:VMD62rz1yiHD_OqRtbnrlFztQ8K-51YB_WBdBLwjGLOFwwKyil5L6ixmm5YMtdU_G3zR4bl



Scale = 1:36.8

| LOADING (psf) | SPACING- | CSI. | DEFL. | PLATES | GRIP |
|------------------------|----------------------|----------|---------------------------|---------------|----------|
| TCLL (roof) 20.0 | 2-0-0 | TC 0.05 | in (loc) l/defl L/d | MT20 | 244/190 |
| Snow (Pf/Pg) 11.6/15.0 | Plate Grip DOL 1.15 | BC 0.02 | Vert(LL) -0.00 10 n/r 120 | | |
| TCDL 10.0 | Lumber DOL 1.15 | WB 0.05 | Vert(CT) -0.00 11 n/r 120 | | |
| BCLL 0.0 * | Rep Stress Incr YES | Matrix-S | Horz(CT) 0.00 10 n/a n/a | | |
| BCDL 10.0 | Code IRC2018/TPI2014 | | | Weight: 88 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 6-0-0 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

All bearings 14-4-8.
 (lb) - Max Horz 2=-126(LC 12)
 Max Uplift All uplift 100 lb or less at joint(s) 2, 10, 16, 17, 18, 14, 13, 12
 Max Grav All reactions 250 lb or less at joint(s) 2, 10, 15, 16, 17, 18, 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=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3E) -0-10-8 to 2-1-8, Exterior(2N) 2-1-8 to 7-2-4, Corner(3R) 7-2-4 to 10-2-4, Exterior(2N) 10-2-4 to 15-3-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=15.0 psf; Pf=11.6 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
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.6 psf on overhangs non-concurrent with other live loads.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- N/A
- 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.



April 14, 2023

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

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

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

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



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 Edenton, NC 27932

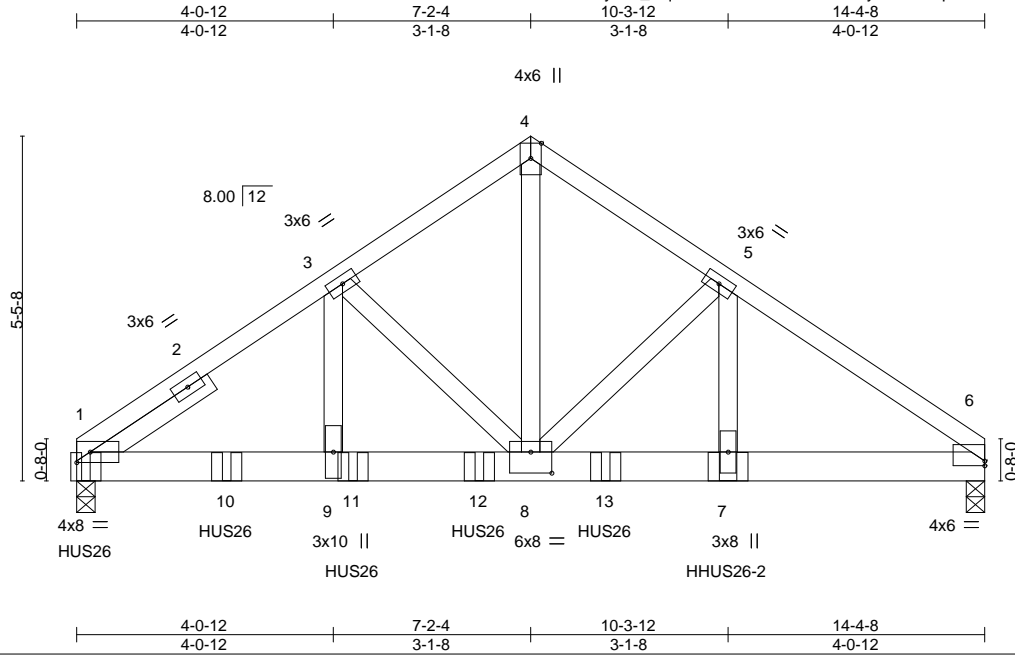
| | | | | | | |
|--------------------|-------|---------------|-----|----------|--------------------------|-----------|
| Job | Truss | Truss Type | Qty | Ply | 150.1910 C_10x10CP | 157773966 |
| 150_1910_C_10X10CP | AG | Common Girder | 1 | 3 | Job Reference (optional) | |

84 Components (Dunn, NC),

Dunn, NC - 28334,

8.630 s Nov 19 2022 MiTek Industries, Inc. Thu Apr 13 16:05:48 2023 Page 1

ID:VMD62rz1yiHD_OqRtbnrIFztQ8K-ZD6ZCsCGyf2aLQwapeSZVvdLh63CVMFW6HDYpVzR4bH



Scale = 1:36.5

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

| 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/Pg) 11.6/15.0 | Plate Grip DOL 1.15 | BC 0.84 | Vert(LL) -0.05 7-8 >999 240 | | |
| TCDL 10.0 | Lumber DOL 1.15 | WB 0.78 | Vert(CT) -0.09 7-8 >999 180 | | |
| BCLL 0.0 * | Rep Stress Incr NO | Matrix-S | Horz(CT) 0.03 6 n/a n/a | | |
| BCDL 10.0 | Code IRC2018/TPI2014 | | | Weight: 269 lb | FT = 20% |

LUMBER-

TOP CHORD 2x4 SP No.2
 BOT CHORD 2x6 SP No.2
 WEBS 2x4 SP No.3
 SLIDER Left 2x4 SP No.3 2-2-11

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.

(size) 1=0-3-8 (req. 0-3-14), 6=0-3-8
 Max Horz 1=119(LC 34)
 Max Uplift 1=710(LC 10), 6=873(LC 11)
 Max Grav 1=7371(LC 3), 6=4703(LC 2)

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

TOP CHORD 1-3=-7662/917, 3-4=-5430/859, 4-5=-5469/864, 5-6=-7517/1402
 BOT CHORD 1-9=-746/6107, 8-9=-746/6107, 7-8=-1070/5926, 6-7=-1070/5926
 WEBS 4-8=-878/5684, 5-8=-1930/696, 5-7=-759/2641, 3-8=-2286/161, 3-9=-105/3112

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 - 3 rows staggered at 0-5-0 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=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; 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); Pg=15.0 psf; Pf=11.6 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
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- WARNING: Required bearing size at joint(s) 1 greater than input bearing size.
- Two H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 1 and 6. This connection is for uplift only and does not consider lateral forces.
- 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.
- Use Simpson Strong-Tie HUS26 (14-10d Girder, 4-10d Truss) or equivalent spaced at 2-2-12 oc max. starting at 0-1-12 from the left end to 8-4-8 to connect truss(es) to back face of bottom chord.
- Use Simpson Strong-Tie HHUS26-2 (14-10d Girder, 4-10d Truss) or equivalent at 10-3-12 from the left end to connect truss(es) to back face of bottom chord.
- Fill all nail holes where hanger is in contact with lumber.



April 14, 2023

Continued on page 2

LOAD CASE(S) Standard

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

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818 Soundside Road
 Edenton, NC 27932

| | | | | | | |
|--------------------|-------|---------------|-----|----------|--------------------------|-----------|
| Job | Truss | Truss Type | Qty | Ply | 150.1910 C_10x10CP | 157773966 |
| 150_1910_C_10X10CP | AG | Common Girder | 1 | 3 | Job Reference (optional) | |

84 Components (Dunn, NC), Dunn, NC - 28334,

8.630 s Nov 19 2022 MiTek Industries, Inc. Thu Apr 13 16:05:49 2023 Page 2
 ID:VMD62rz1yiHD_OqRtbnrIFztQ8K-1QgxPCDujzARzaVmNLzo27AWRWPREpVfLxz5LxzR4bG

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-4=-43, 4-6=-43, 1-6=-20

Concentrated Loads (lb)

Vert: 1=-1619(B) 7=-2120(B) 10=-1544(B) 11=-1541(B) 12=-1608(B) 13=-1657(B)

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818 Soundside Road
 Edenton, NC 27932

| | | | | | | |
|--------------------|-------|------------|-----|-----|--------------------|-----------|
| Job | Truss | Truss Type | Qty | Ply | 150.1910 C_10x10CP | 157773967 |
| 150_1910_C_10X10CP | B1 | Common | 2 | 1 | | |

84 Components (Dunn, NC),

Dunn, NC - 28334,

8.630 s Nov 19 2022 MiTek Industries, Inc. Thu Apr 13 16:05:50 2023 Page 1

ID:VMD62rz1yiHD_OqRtbnrIFztQ8K-WcEJcYDWUGllak4zw3U1aKihnwuCzK7pabietNzR4bF



Scale = 1:62.6

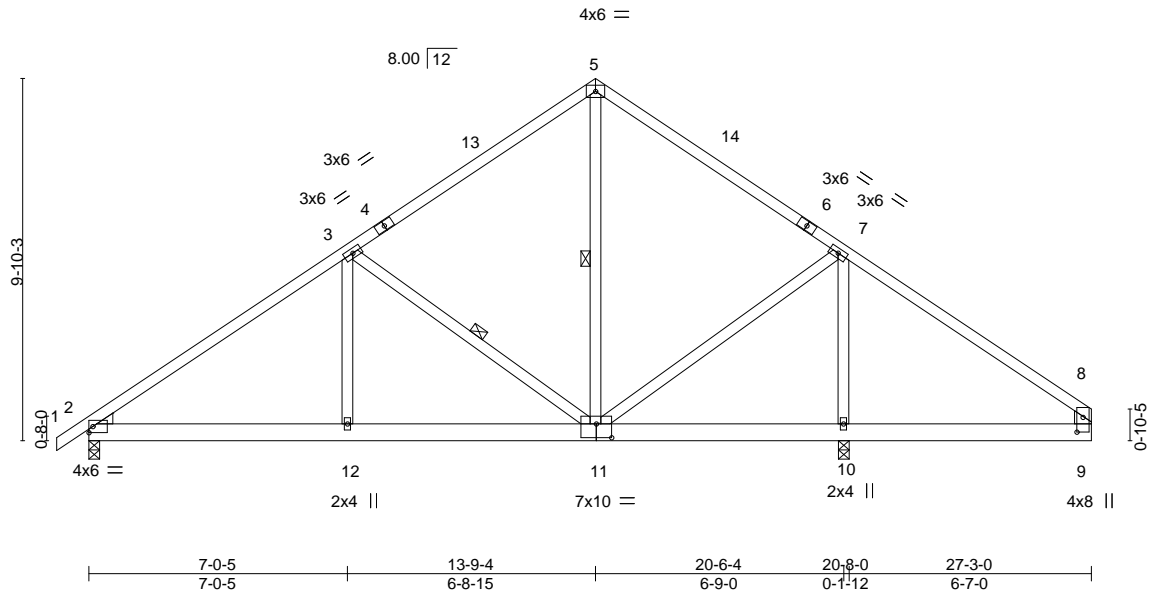


Plate Offsets (X,Y)-- [9:0-4-13,0-2-0], [11:0-5-0,0-4-8]

| LOADING (psf) | SPACING- | CSI. | DEFL. | PLATES | GRIP |
|------------------------|----------------------|----------|------------------------------|----------------|----------|
| TCLL (roof) 20.0 | 2-0-0 | TC 0.73 | in (loc) l/defl L/d | MT20 | 244/190 |
| Snow (Pf/Pg) 11.6/15.0 | Plate Grip DOL 1.15 | BC 0.30 | Vert(LL) 0.03 2-12 >999 240 | | |
| TCDL 10.0 | Lumber DOL 1.15 | WB 0.57 | Vert(CT) -0.06 2-12 >999 180 | | |
| BCLL 0.0 * | Rep Stress Incr YES | Matrix-S | Horz(CT) 0.01 10 n/a n/a | | |
| BCDL 10.0 | Code IRC2018/TPI2014 | | | Weight: 167 lb | FT = 20% |

LUMBER-

TOP CHORD 2x4 SP No.2
 BOT CHORD 2x6 SP No.2
 WEBS 2x4 SP No.2 *Except*
 3-12,7-10: 2x4 SP No.3, 8-9: 2x6 SP No.2
 WEDGE
 Left: 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-3-4 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
 WEBS 1 Row at midpt 3-11, 5-11

REACTIONS.

(size) 2=0-3-8, 10=0-3-8
 Max Horz 2=225(LC 11)
 Max Uplift 2=-100(LC 14), 10=-118(LC 15)
 Max Grav 2=794(LC 2), 10=1417(LC 2)

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

TOP CHORD 2-3=-984/119, 3-5=-464/149, 5-7=-466/165, 7-8=-44/420
 BOT CHORD 2-12=-154/796, 11-12=-154/796, 10-11=-255/87, 9-10=-255/87
 WEBS 3-12=0/315, 3-11=-568/216, 7-11=0/650, 7-10=-1197/179

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 13-9-4, Exterior(2R) 13-9-4 to 16-9-4, Interior(1) 16-9-4 to 27-0-4 zone;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); Pg=15.0 psf; Pf=11.6 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
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.6 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 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 10. This connection is for uplift only and does not consider lateral forces.
- 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.



April 14, 2023

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

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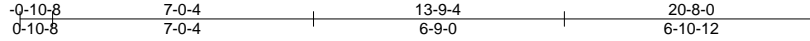
| | | | | | | |
|--------------------|-------|------------|-----|-----|--------------------|-----------|
| Job | Truss | Truss Type | Qty | Ply | 150.1910 C_10x10CP | 157773968 |
| 150_1910_C_10X10CP | B2 | COMMON | 3 | 1 | | |

84 Components (Dunn, NC),

Dunn, NC - 28334,

8.630 s Nov 19 2022 MiTek Industries, Inc. Thu Apr 13 16:05:51 2023 Page 1

ID:VMD62rz1yihD_OqRtbnrIFztQ8K-_oohquE8FaQ9Ctf9Um?G7YFsfKE4is9yoFSCPqzR4bE



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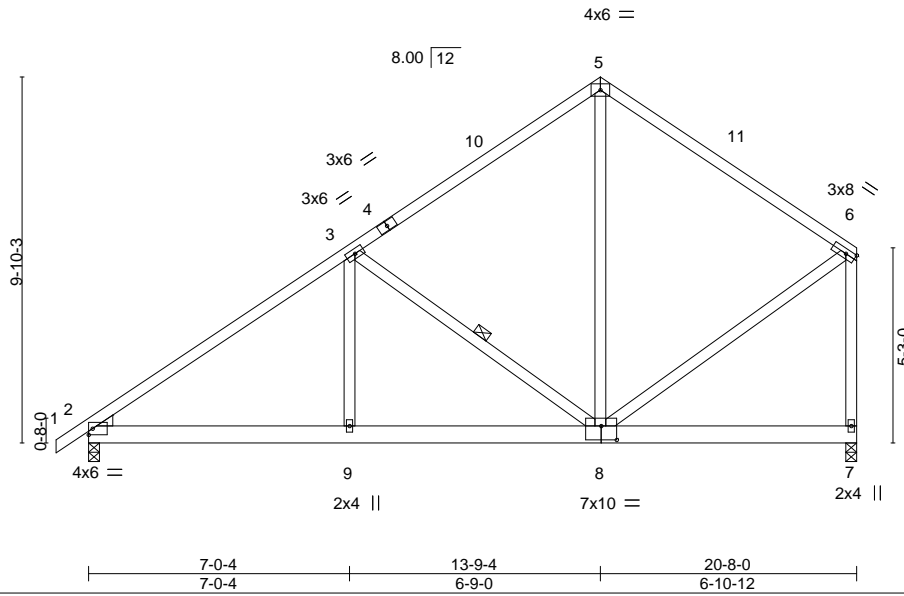


Plate Offsets (X,Y)-- [8:0-5-0,0-4-8]

| LOADING (psf) | SPACING- | CSI. | DEFL. | PLATES | GRIP |
|------------------------|----------------------|----------|-----------------------------|----------------|----------|
| TCLL (roof) 20.0 | 2-0-0 | TC 0.72 | in (loc) l/defl L/d | MT20 | 244/190 |
| Snow (Pf/Pg) 11.6/15.0 | Plate Grip DOL 1.15 | BC 0.32 | Vert(LL) 0.03 2-9 >999 240 | | |
| TCDL 10.0 | Lumber DOL 1.15 | WB 0.20 | Vert(CT) -0.06 2-9 >999 180 | | |
| BCLL 0.0 * | Rep Stress Incr YES | Matrix-S | Horz(CT) 0.01 7 n/a n/a | | |
| BCDL 10.0 | Code IRC2018/TPI2014 | | | Weight: 139 lb | FT = 20% |

LUMBER-

TOP CHORD 2x4 SP No.2
 BOT CHORD 2x6 SP No.2
 WEBS 2x4 SP No.3 *Except*
 3-8,5-8: 2x4 SP No.2

WEDGE
 Left: 2x4 SP No.3

REACTIONS. (size) 2=0-3-8, 7=0-3-8
 Max Horz 2=263(LC 14)
 Max Uplift 2=-85(LC 14), 7=-87(LC 14)
 Max Grav 2=878(LC 2), 7=813(LC 2)

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

TOP CHORD 2-3=-1123/93, 3-5=-616/128, 5-6=-602/132, 6-7=-751/118
 BOT CHORD 2-9=-223/857, 8-9=-223/857
 WEBS 3-9=0/302, 3-8=-552/217, 5-8=-2/289, 6-8=-52/489

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 13-9-4, Exterior(2R) 13-9-4 to 16-9-4, Interior(1) 16-9-4 to 20-6-4 zone; cantilever left exposed; end vertical left 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); Pg=15.0 psf; Pf=11.6 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
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.6 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 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 7. This connection is for uplift only and does not consider lateral forces.
- 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.



April 14, 2023

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| | | | | | | |
|--------------------|-------|------------------------|-----|-----|--------------------|-----------|
| Job | Truss | Truss Type | Qty | Ply | 150.1910 C_10x10CP | 157773969 |
| 150_1910_C_10X10CP | BE | Common Supported Gable | 1 | 1 | | |

84 Components (Dunn, NC),

Dunn, NC - 28334,

8.630 s Nov 19 2022 MiTek Industries, Inc. Thu Apr 13 16:05:53 2023 Page 1

ID:VMD62rz1yihD_OqRtbnrlFztQ8K-wBvSFaGOnBgtRBpYcB1kCzKCG7ptAmrFGZxliUizR4bC



Scale = 1:62.0

Plate Offsets (X,Y)-- [2:0-3-13,Edge], [19:0-2-14,0-1-8], [27:0-3-0,0-3-0]

| LOADING (psf) | SPACING- | CSI. | DEFL. | in (loc) | l/defl | L/d | PLATES | GRIP |
|------------------------|----------------------|----------|----------------|----------|--------|-----|----------------|----------|
| TCLL (roof) 20.0 | 2-0-0 | TC 0.71 | Vert(LL) 0.00 | 1 | n/r | 120 | MT20 | 244/190 |
| Snow (Pf/Pg) 11.6/15.0 | Plate Grip DOL 1.15 | BC 0.75 | Vert(CT) 0.00 | 1 | n/r | 120 | | |
| TCDL 10.0 | Lumber DOL 1.15 | WB 0.25 | Horz(CT) -0.01 | 24 | n/a | n/a | | |
| BCLL 0.0 * | Rep Stress Incr YES | Matrix-S | | | | | Weight: 191 lb | FT = 20% |
| BCDL 10.0 | Code IRC2018/TPI2014 | | | | | | | |

| LUMBER- | BRACING- |
|---|--|
| TOP CHORD 2x4 SP No.2 | TOP CHORD Structural wood sheathing directly applied or 10-0-0 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 11-27, 10-28, 12-26 |
| OTHERS 2x4 SP No.3 *Except* 11-27,10-28,9-29,12-26,13-25: 2x4 SP No.2 | |
| SLIDER Left 2x4 SP No.3 1-6-5 | |

REACTIONS. All bearings 20-8-0.
 (lb) - Max Horz 2=226(LC 11)
 Max Uplift All uplift 100 lb or less at joint(s) 28, 29, 30, 31, 32, 33, 26 except 2=226(LC 33), 25=-290(LC 27), 24=-291(LC 15)
 Max Grav All reactions 250 lb or less at joint(s) 2, 28, 29, 30, 31, 32, 25 except 27=520(LC 2), 33=250(LC 26), 26=300(LC 27), 24=869(LC 27)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-4=-213/531, 4-5=-132/474, 5-6=-74/461, 6-7=-20/444, 7-9=0/428, 9-10=0/422, 10-11=0/415, 11-12=0/407, 12-13=0/434, 13-15=0/329, 15-16=0/489, 16-17=-24/448, 17-18=-67/405, 18-19=-109/380
 BOT CHORD 2-33=-332/117, 32-33=-332/117, 31-32=-332/117, 30-31=-332/117, 29-30=-332/117, 28-29=-332/117, 27-28=-332/117, 26-27=-333/116, 25-26=-333/116, 24-25=-333/116, 23-24=-333/116, 22-23=-333/116, 21-22=-333/116, 20-21=-333/116
 WEBS 11-27=-498/0, 15-24=-430/181

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3E) -0-10-8 to 2-1-8, Exterior(2N) 2-1-8 to 13-9-4, Corner(3R) 13-9-4 to 16-9-4, Exterior(2N) 16-9-4 to 27-4-12 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=15.0 psf; Pf=11.6 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
 - This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.6 psf on overhangs non-concurrent with other live loads.
 - 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 where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.



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Continued on page 2

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

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

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ENGINEERING BY
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| | | | | | | |
|--------------------|-------|------------------------|-----|-----|--------------------------|-----------|
| Job | Truss | Truss Type | Qty | Ply | 150.1910 C_10x10CP | 157773969 |
| 150_1910_C_10X10CP | BE | Common Supported Gable | 1 | 1 | Job Reference (optional) | |

84 Components (Dunn, NC), Dunn, NC - 28334,

8.630 s Nov 19 2022 MiTek Industries, Inc. Thu Apr 13 16:05:54 2023 Page 2
 ID:VMD62rz1yilHD_OqRtbnrIFztQ8K-ONTqSwH1YVok3LNk9vYzIAtN0X96vD5OUDgs09zR4bB

NOTES-
 10) N/A

- 11) N/A
 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.

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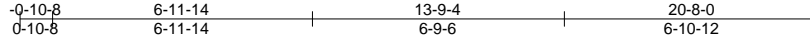
| | | | | | | |
|--------------------|-------|---------------|-----|----------|--------------------------|-----------|
| Job | Truss | Truss Type | Qty | Ply | 150.1910 C_10x10CP | 157773970 |
| 150_1910_C_10X10CP | BG | Common Girder | 1 | 3 | Job Reference (optional) | |

84 Components (Dunn, NC),

Dunn, NC - 28334,

8.630 s Nov 19 2022 MiTek Industries, Inc. Thu Apr 13 16:05:56 2023 Page 1

ID:VMD62rz1yiHD_QqRtbnrlFztQ8K-KmbatblH462RlfX7HJbRqbyq6L?UN9KhyX9z51zR4b9



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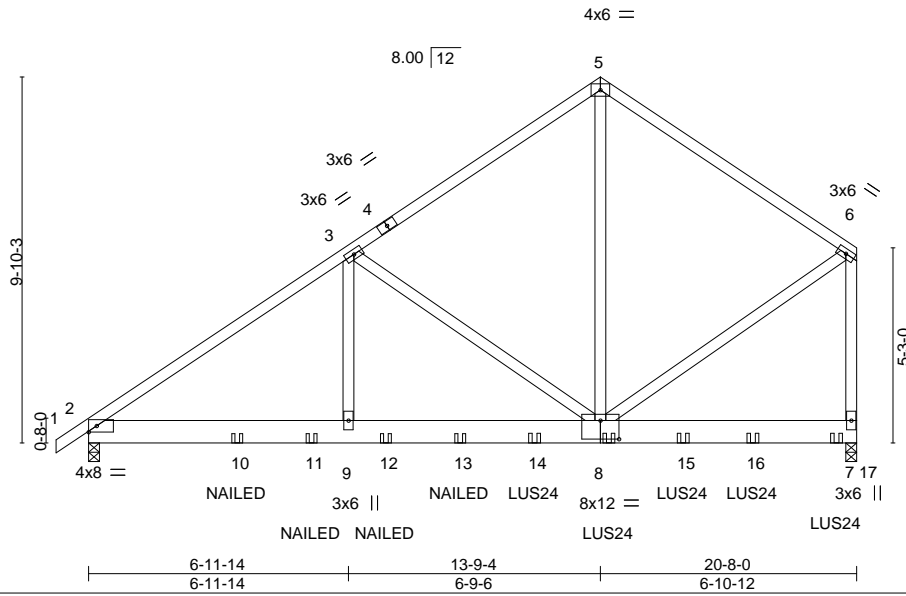


Plate Offsets (X,Y)-- [8:0-6-0,0-6-0]

| LOADING (psf) | | SPACING- | | CSI. | | DEFL. | | | | PLATES | GRIP |
|---------------|-----------|----------------------|-------|----------|------|----------|-------|--------|------|----------------|----------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 2-0-0 | TC | 0.29 | in | (loc) | l/defl | L/d | MT20 | 244/190 |
| Snow (Pf/Pg) | 11.6/15.0 | Lumber DOL | 1.15 | BC | 0.05 | Vert(LL) | 0.01 | 7-8 | >999 | | |
| TCDL | 10.0 | Rep Stress Incr | NO | WB | 0.07 | Vert(CT) | 0.01 | 7-8 | >999 | | |
| BCLL | 0.0 * | Code IRC2018/TPI2014 | | Matrix-S | | Horz(CT) | 0.00 | 7 | n/a | | |
| BCDL | 10.0 | | | | | | | | | Weight: 458 lb | FT = 20% |

LUMBER-

TOP CHORD 2x4 SP No.2
 BOT CHORD 2x8 SP DSS
 WEBS 2x4 SP No.2 *Except*
 3-9,6-7: 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.

REACTIONS.

(size) 2=0-3-8, 7=0-3-8
 Max Horz 2=262(LC 10)
 Max Uplift 2=-449(LC 10), 7=-693(LC 37)
 Max Grav 2=860(LC 55), 7=1109(LC 2)

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

TOP CHORD 2-3=-1088/655, 3-5=-708/451, 5-6=-694/523, 6-7=-851/445
 BOT CHORD 2-9=-671/916, 8-9=-671/916
 WEBS 3-9=-398/207, 3-8=-533/475, 5-8=-731/377, 6-8=-448/572

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: 2x8 - 2 rows staggered at 0-9-0 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=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; 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); Pg=15.0 psf; Pf=11.6 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
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.6 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 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2. This connection is for uplift only and does not consider lateral forces.
- Two H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 7. This connection is for uplift only and does not consider lateral forces.
- 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.
- Use Simpson Strong-Tie LUS24 (4-10d Girder, 2-10d Truss, Single Ply Girder) or equivalent spaced at 2-3-0 oc max. starting at 12-0-0 from the left end to 20-1-8 to connect truss(es) to back face of bottom chord.

Continued on pages where hanger is in contact with lumber.



April 14, 2023

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| | | | | | | |
|--------------------|-------|---------------|-----|----------|--------------------------|-----------|
| Job | Truss | Truss Type | Qty | Ply | 150.1910 C_10x10CP | 157773970 |
| 150_1910_C_10X10CP | BG | Common Girder | 1 | 3 | Job Reference (optional) | |

84 Components (Dunn, NC), Dunn, NC - 28334,

8.630 s Nov 19 2022 MiTek Industries, Inc. Thu Apr 13 16:05:56 2023 Page 2
 ID:VMD62rz1yiHD_QqRtbnrlFztQ8K-KmbatbIH462RlfX7HJbRqbyq6L?UN9KhyX9z51zR4b9

NOTES-

14) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidelines.

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-5=-43, 5-6=-43, 2-7=-20

Concentrated Loads (lb)

Vert: 8=-106(B) 10=96(B) 11=88(B) 12=90(B) 13=-8(B) 14=-19(B) 15=-117(B) 16=-117(B) 17=-123(B)

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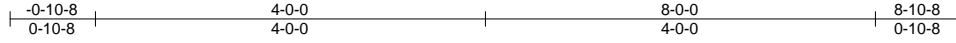
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| | | | | | | |
|--------------------|-------|----------------------|-----|-----|--------------------|-----------|
| Job | Truss | Truss Type | Qty | Ply | 150.1910 C_10x10CP | 157773971 |
| 150_1910_C_10X10CP | CE | COMMON SUPPORTED GAB | 1 | 1 | | |

84 Components (Dunn, NC),

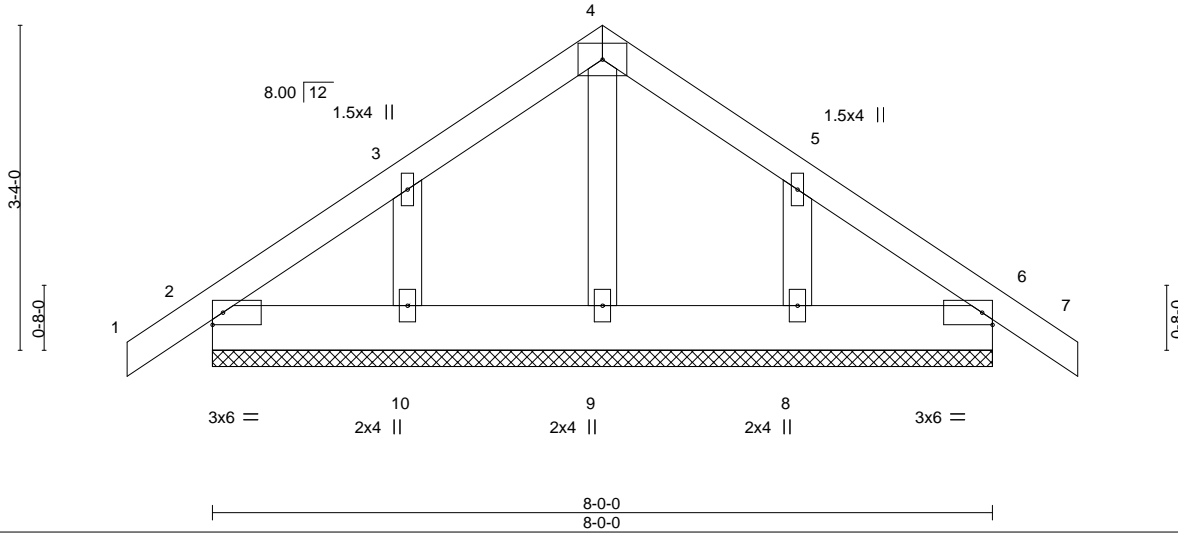
Dunn, NC - 28334,

8.630 s Nov 19 2022 MiTek Industries, Inc. Thu Apr 13 16:05:58 2023 Page 1
ID:VMD62rz1yiHD_OqRtbnrIFztQ8K-H8jLIHKXbkI9YyhVOKdvv02E98hRr47_Pre39wzR4b7



4x6 =

Scale = 1:23.6



| LOADING (psf) | SPACING- | CSI. | DEFL. | PLATES | GRIP |
|------------------------|----------------------|----------|--------------------------|---------------|----------|
| TCLL (roof) 20.0 | 2-0-0 | TC 0.06 | in (loc) l/defl L/d | MT20 | 244/190 |
| Snow (Pf/Pg) 11.6/15.0 | Plate Grip DOL 1.15 | BC 0.02 | Vert(LL) -0.00 6 n/r 120 | | |
| TCDL 10.0 | Lumber DOL 1.15 | WB 0.05 | Vert(CT) -0.00 7 n/r 120 | | |
| BCLL 0.0 * | Rep Stress Incr YES | Matrix-P | Horz(CT) 0.00 6 n/a n/a | | |
| BCDL 10.0 | Code IRC2018/TPI2014 | | | Weight: 44 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 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

All bearings 8-0-0.
(lb) - Max Horz 2=76(LC 13)
Max Uplift All uplift 100 lb or less at joint(s) 2, 6, 10, 8
Max Grav All reactions 250 lb or less at joint(s) 2, 6, 9, 10, 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=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3E) -0-10-8 to 2-0-0, Exterior(2N) 2-0-0 to 4-0-0, Corner(3R) 4-0-0 to 7-0-0, Exterior(2N) 7-0-0 to 8-10-8 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
- 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); Pg=15.0 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
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.6 psf on overhangs non-concurrent with other live loads.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- N/A
- Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 2.
- 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.



April 14, 2023

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



818 Soundside Road
Edenton, NC 27932

| | | | | | | |
|--------------------|-------|------------|-----|-----|--------------------|-----------|
| Job | Truss | Truss Type | Qty | Ply | 150.1910 C_10x10CP | 157773972 |
| 150_1910_C_10X10CP | H1 | Hip | 1 | 1 | | |

84 Components (Dunn, NC), Dunn, NC - 28334, 8.630 s Nov 19 2022 MiTek Industries, Inc. Thu Apr 13 16:06:00 2023 Page 1
 ID:VMD62rz1yiHD_OqRtbnrIFztQ8K-DXq5jzLn7LYtnGruW9fN_R7SwyBVJlHt97AEozR4b5

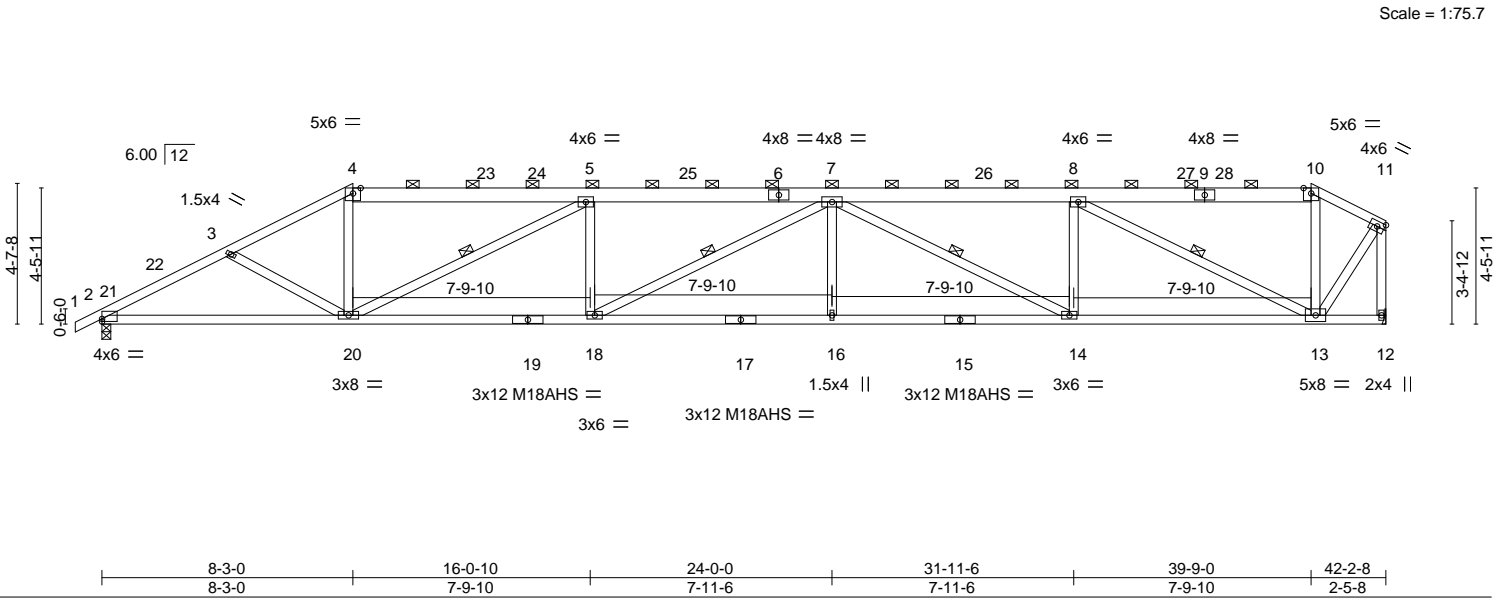


Plate Offsets (X,Y)-- [2:0-0-0-1-1]

| LOADING (psf) | SPACING- | CSI. | DEFL. | PLATES | GRIP |
|------------------------|----------------------|----------|-------------------------------|----------------|----------|
| TCLL (roof) 20.0 | 2-0-0 | TC 0.56 | in (loc) l/defl L/d | MT20 | 244/190 |
| Snow (Pf/Pg) 16.5/15.0 | Plate Grip DOL 1.15 | BC 0.81 | Vert(LL) -0.34 16-18 >999 240 | M18AHS | 186/179 |
| TCDL 10.0 | Lumber DOL 1.15 | WB 1.00 | Vert(CT) -0.72 16-18 >696 180 | | |
| BCLL 0.0 * | Rep Stress Incr YES | Matrix-S | Horz(CT) 0.21 12 n/a n/a | | |
| BCDL 10.0 | Code IRC2018/TPI2014 | | | Weight: 251 lb | FT = 20% |

| LUMBER- | BRACING- |
|---|---|
| TOP CHORD 2x6 SP No.2 *Except* 1-4,10-11: 2x4 SP No.2 | TOP CHORD Structural wood sheathing directly applied or 3-0-5 oc purlins, except end verticals, and 2-0-0 oc purlins (3-3-14 max.): 4-10. |
| BOT CHORD 2x4 SP No.1 | BOT CHORD Rigid ceiling directly applied or 7-10-9 oc bracing. |
| WEBS 2x4 SP No.3 *Except* 5-20,7-18,7-14,8-13: 2x4 SP No.2 | WEBS 1 Row at midpt 5-20, 7-18, 7-14, 8-13 |

REACTIONS. (size) 2=0-3-8, 12=Mechanical
 Max Horz 2=140(LC 16)
 Max Uplift 2=-162(LC 13), 12=-214(LC 12)
 Max Grav 2=1739(LC 2), 12=1677(LC 40)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-3089/364, 3-4=-2985/370, 4-5=-2623/346, 5-7=-4150/612, 7-8=-3308/492,
 8-10=-895/128, 10-11=-977/128, 11-12=-1692/201
 BOT CHORD 2-20=-362/2652, 18-20=-604/4150, 16-18=-633/4275, 14-16=-633/4275, 13-14=-484/3308
 WEBS 4-20=-51/953, 5-20=-1795/332, 5-18=0/373, 7-16=0/317, 7-14=-1169/168, 8-14=0/728,
 8-13=-2715/424, 11-13=-186/1585

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 8-3-0, Exterior(2R) 8-3-0 to 12-5-15, Interior(1) 12-5-15 to 39-9-0, Exterior(2E) 39-9-0 to 42-0-12 zone;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); Pg=15.0 psf; Pf=16.5 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, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
 - 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 1.00 times flat roof load of 11.6 psf on overhangs non-concurrent with other live loads.
 - Provide adequate drainage to prevent water ponding.
 - 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 where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 12=214.
 - One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2. This connection is for uplift only and does not consider lateral forces.



April 14, 2023

Continued on page 2

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

ENGINEERING BY
TRENCO
 A MiTek Affiliate
 818 Soundside Road
 Edenton, NC 27932

| Job | Truss | Truss Type | Qty | Ply | 150.1910 C_10x10CP | 157773972 |
|--------------------|-------|------------|-----|-----|--------------------------|-----------|
| 150_1910_C_10X10CP | H1 | Hip | 1 | 1 | Job Reference (optional) | |

84 Components (Dunn, NC), Dunn, NC - 28334,

8.630 s Nov 19 2022 MiTek Industries, Inc. Thu Apr 13 16:06:00 2023 Page 2
 ID:VMD62rz1yiHD_OqRtbnrlFztQ8K-DXq5jzLn7LYtnGruW9fN_R7SwyBVJltHt97AEozR4b5

- NOTES-**
- 13) 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.
 - 14) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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

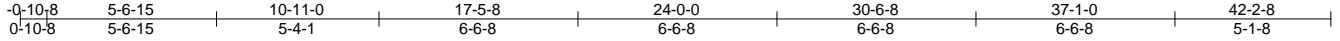
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



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 Edenton, NC 27932

| | | | | | | |
|--------------------|-------|------------|-----|-----|--------------------|-----------|
| Job | Truss | Truss Type | Qty | Ply | 150.1910 C_10x10CP | 157773973 |
| 150_1910_C_10X10CP | H2 | Hip | 1 | 1 | | |

84 Components (Dunn, NC), Dunn, NC - 28334, 8.630 s Nov 19 2022 MiTek Industries, Inc. Thu Apr 13 16:06:04 2023 Page 1
 ID:VMD62rz1yiHD_OqRtbnrIFztQ8K-5I4cYKOIBa3JGt8fi?k9HIOVZW3Fcqton5ONazR4b1



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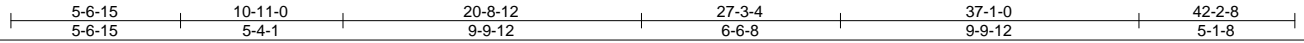
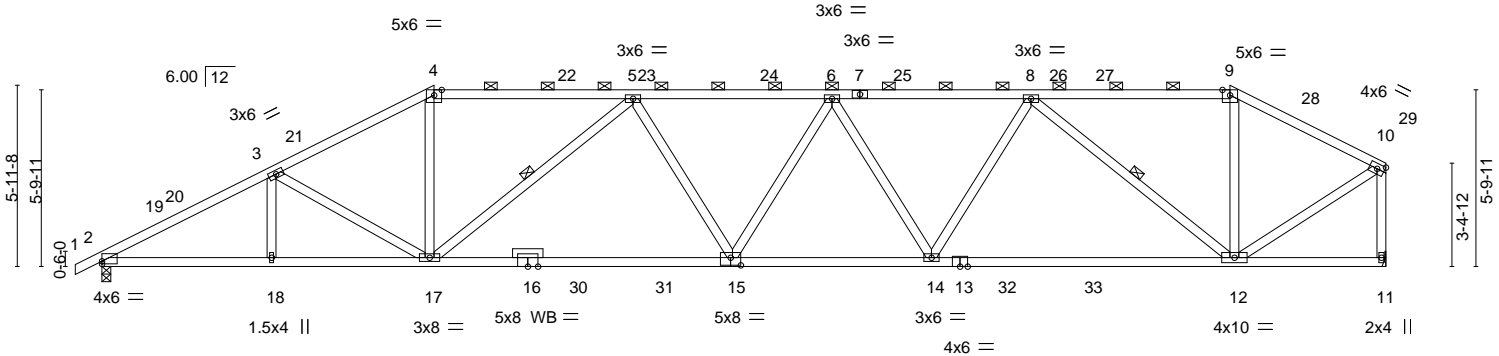


Plate Offsets (X,Y)-- [2:0-0-0,0-1-1], [15:0-4-0,0-3-0]

| LOADING (psf) | SPACING- | CSI. | DEFL. | PLATES | GRIP |
|------------------------|----------------------|----------|-------------------------------|----------------|----------|
| TCLL (roof) 20.0 | Plate Grip DOL 1.15 | TC 0.97 | in (loc) l/defl L/d | MT20 | 244/190 |
| Snow (Pf/Pg) 16.5/15.0 | Lumber DOL 1.15 | BC 0.90 | Vert(LL) -0.43 15-17 >999 240 | | |
| TCDL 10.0 | Rep Stress Incr YES | WB 0.74 | Vert(CT) -0.79 15-17 >640 180 | | |
| BCLL 0.0 * | Code IRC2018/TPI2014 | Matrix-S | Horz(CT) 0.14 11 n/a n/a | | |
| BCDL 10.0 | | | | Weight: 234 lb | FT = 20% |

LUMBER-

TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP DSS *Except*
 13-15: 2x4 SP No.1
 WEBS 2x4 SP No.2 *Except*
 3-18,3-17,4-17,9-12,10-11,10-12: 2x4 SP No.3
 OTHERS 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied or 2-8-1 oc purlins, except end verticals, and 2-0-0 oc purlins (2-2-0 max.): 4-9.
 BOT CHORD Rigid ceiling directly applied or 9-6-8 oc bracing.
 WEBS 1 Row at midpt 5-17, 8-12

REACTIONS.

(size) 2=0-3-8, 11=Mechanical
 Max Horz 2=162(LC 16)
 Max Uplift 2=-124(LC 13), 11=-162(LC 12)
 Max Grav 2=1870(LC 3), 11=1829(LC 3)

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

TOP CHORD 2-3=-3400/279, 3-4=-3058/314, 4-5=-2667/296, 5-6=-3571/419, 6-8=-3287/384,
 8-9=-1499/177, 9-10=-1705/178, 10-11=-1803/171
 BOT CHORD 2-18=-297/2931, 17-18=-297/2931, 15-17=-425/3444, 14-15=-423/3514, 12-14=-354/2878
 WEBS 3-17=-453/169, 4-17=-37/1070, 5-17=-1060/243, 5-15=0/298, 6-14=-501/124,
 8-14=-11/843, 8-12=-1791/296, 9-12=0/505, 10-12=-150/1797

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 10-11-0, Exterior(2R) 10-11-0 to 15-1-15, Interior(1) 15-1-15 to 37-1-0, Exterior(2R) 37-1-0 to 41-3-15, Interior(1) 41-3-15 to 42-0-12 zone; 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); Pg=15.0 psf; Pf=16.5 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, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 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 1.00 times flat roof load of 11.6 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 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 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) 11=162.
- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2. This connection is for uplift only and does not consider lateral forces.



April 14, 2023

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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818 Soundside Road
 Edenton, NC 27932

| | | | | | | |
|--------------------|-------|------------|-----|-----|--------------------------|-----------|
| Job | Truss | Truss Type | Qty | Ply | 150.1910 C_10x10CP | 157773973 |
| 150_1910_C_10X10CP | H2 | Hip | 1 | 1 | Job Reference (optional) | |

84 Components (Dunn, NC), Dunn, NC - 28334,

8.630 s Nov 19 2022 MiTek Industries, Inc. Thu Apr 13 16:06:05 2023 Page 2
 ID:VMD62rz1yiHD_OqRtbnrIFztQ8K-ZVe_mgPwytBAu1jrJiFYhUqBFzsl_3400Rrxv0zR4b0

NOTES-

- 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.

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

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| | | | | | | |
|--------------------|-------|------------|-----|-----|--------------------|-----------|
| Job | Truss | Truss Type | Qty | Ply | 150.1910 C_10x10CP | 157773974 |
| 150_1910_C_10x10CP | H3 | Hip | 1 | 1 | | |

84 Components (Dunn, NC), Dunn, NC - 28334, 8.630 s Nov 19 2022 MiTek Industries, Inc. Thu Apr 13 16:06:07 2023 Page 1
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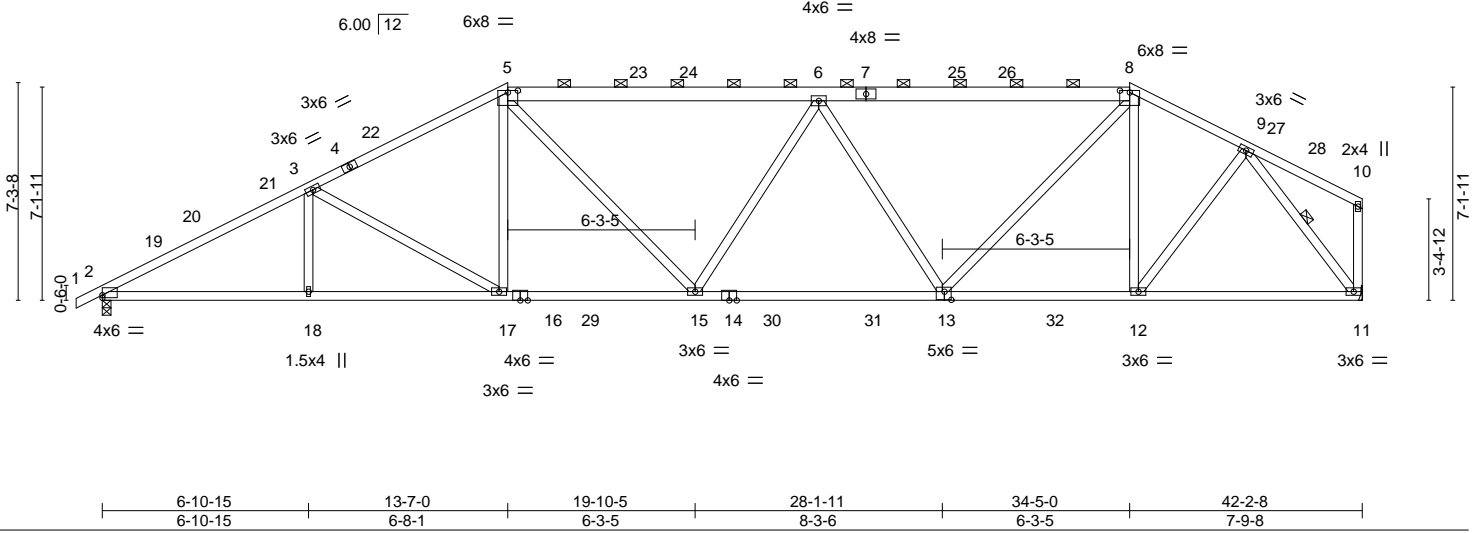


Plate Offsets (X,Y)-- [2:0-0-0,0-1-1], [5:0-4-0,0-0-12], [8:0-4-0,0-0-12], [13:0-2-12,0-3-4]

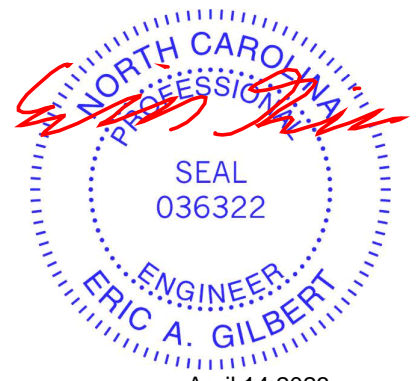
| LOADING (psf) | SPACING- | CSI. | DEFL. | PLATES | GRIP |
|------------------------|----------------------|----------|-------------------------------|----------------|----------|
| TCLL (roof) 20.0 | Plate Grip DOL 1.15 | TC 0.95 | in (loc) l/defl L/d | MT20 | 244/190 |
| Snow (Pf/Pg) 16.5/15.0 | Lumber DOL 1.15 | BC 0.85 | Vert(LL) -0.28 13-15 >999 240 | | |
| TCDL 10.0 | Rep Stress Incr YES | WB 0.91 | Vert(CT) -0.50 13-15 >999 180 | | |
| BCLL 0.0 * | Code IRC2018/TPI2014 | Matrix-S | Horz(CT) 0.14 11 n/a n/a | | |
| BCDL 10.0 | | | | Weight: 256 lb | FT = 20% |

| LUMBER- | BRACING- |
|--|---|
| TOP CHORD 2x4 SP No.2 *Except* 5-7,7-8: 2x6 SP No.2, 1-4: 2x4 SP No.1 | TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals, and 2-0-0 oc purlins (2-2-0 max.): 5-8. |
| BOT CHORD 2x4 SP No.1 | BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. |
| WEBS 2x4 SP No.2 *Except* 3-18,10-11,9-12,9-11: 2x4 SP No.3 | WEBS 1 Row at midpt 9-11 |

REACTIONS. (size) 2=0-3-8, 11=Mechanical
 Max Horz 2=183(LC 16)
 Max Uplift 2=-121(LC 16), 11=-107(LC 12)
 Max Grav 2=1891(LC 3), 11=1857(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-3421/254, 3-5=-2875/268, 5-6=-2906/284, 6-8=-2615/246, 8-9=-1951/209
 BOT CHORD 2-18=-253/2964, 17-18=-253/2964, 15-17=-215/2506, 13-15=-321/3011, 12-13=-115/1752,
 11-12=-99/1247
 WEBS 3-18=0/294, 3-17=-650/187, 5-17=-19/553, 5-15=-106/670, 6-15=-344/203,
 6-13=-824/220, 8-13=-136/1278, 8-12=-494/144, 9-12=-70/894, 9-11=-2028/172

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 13-7-0, Exterior(2R) 13-7-0 to 17-9-15, Interior(1) 17-9-15 to 34-5-0, Exterior(2R) 34-5-0 to 38-7-15, Interior(1) 38-7-15 to 42-0-12 zone;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); Pg=15.0 psf; Pf=16.5 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, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
 - 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 1.00 times flat roof load of 11.6 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 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - 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) 11=107.
 - One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2. This connection is for uplift only and does not consider lateral forces.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and conform to standard ANSI/TPI 1.



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

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| Job | Truss | Truss Type | Qty | Ply | 150.1910 C_10x10CP | 157773974 |
|--------------------|-------|------------|-----|-----|--------------------------|-----------|
| 150_1910_C_10X10CP | H3 | Hip | 1 | 1 | Job Reference (optional) | |

84 Components (Dunn, NC), Dunn, NC - 28334,

8.630 s Nov 19 2022 MiTek Industries, Inc. Thu Apr 13 16:06:07 2023 Page 2
 ID:\VMD62rz1yiHD_OqRtbnr\FztQ8K-WtkBMRAUVRu7LtEQ7H0mvwYymYYSw?JUIK2_uzR4b_

NOTES-

13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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| | | | | | | |
|--------------------|-------|------------|-----|-----|--------------------|-----------|
| Job | Truss | Truss Type | Qty | Ply | 150.1910 C_10x10CP | 157773976 |
| 150_1910_C_10X10CP | H5 | Hip | 1 | 1 | | |

84 Components (Dunn, NC), Dunn, NC - 28334, 8.630 s Nov 19 2022 MiTek Industries, Inc. Thu Apr 13 16:06:12 2023 Page 1
 ID:VMD62rz1yiHD_OqRtbnrlFztQ8K-srZdE3UJl13AD6lBDgtBTzdSRnGq7JS2d01pe6zR4av

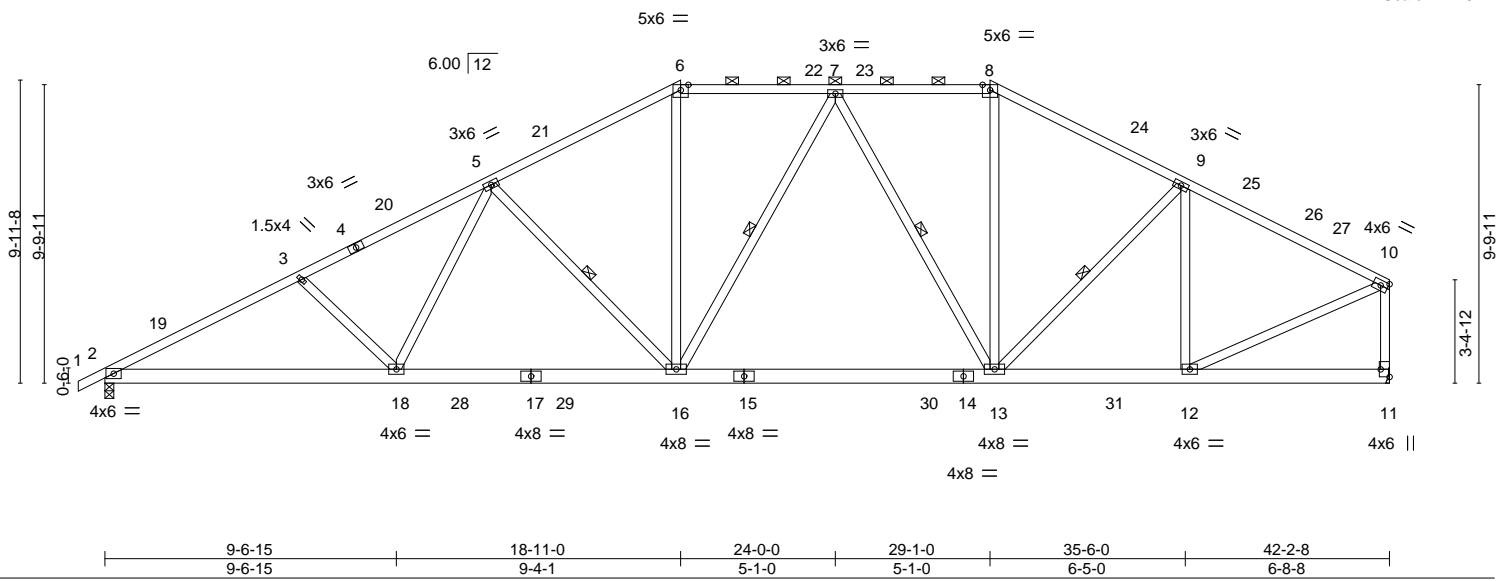


Plate Offsets (X,Y)-- [11:Edge,0-3-8]

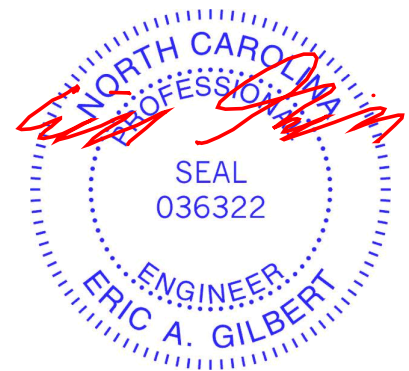
| LOADING (psf) | SPACING- | CSI. | DEFL. | PLATES | GRIP |
|------------------------|----------------------|----------|-------------------------------|----------------|----------|
| TCLL (roof) 20.0 | 2-0-0 | TC 0.71 | in (loc) l/defl L/d | MT20 | 244/190 |
| Snow (Pf/Pg) 16.5/15.0 | Plate Grip DOL 1.15 | BC 0.84 | Vert(LL) -0.23 13-16 >999 240 | | |
| TCDL 10.0 | Lumber DOL 1.15 | WB 0.45 | Vert(CT) -0.41 13-16 >999 180 | | |
| BCLL 0.0 * | Rep Stress Incr YES | Matrix-S | Horz(CT) 0.09 11 n/a n/a | | |
| BCDL 10.0 | Code IRC2018/TPI2014 | | | Weight: 292 lb | FT = 20% |

| LUMBER- | BRACING- |
|--|---|
| TOP CHORD 2x4 SP No.2 | TOP CHORD Structural wood sheathing directly applied or 2-5-10 oc purlins, except end verticals, and 2-0-0 oc purlins (3-10-0 max.): 6-8. |
| BOT CHORD 2x6 SP No.2 | BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. |
| WEBS 2x4 SP No.2 *Except* 3-18,10-11: 2x4 SP No.3 | WEBS 1 Row at midpt 5-16, 7-16, 7-13, 9-13 |

REACTIONS. (size) 2=0-3-8, 11=Mechanical
 Max Horz 2=225(LC 16)
 Max Uplift 2=-165(LC 16), 11=-95(LC 17)
 Max Grav 2=1914(LC 3), 11=1878(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-3465/288, 3-5=-3253/272, 5-6=-2447/278, 6-7=-2120/282, 7-8=-1825/259,
 8-9=-2122/260, 9-10=-1959/190, 10-11=-1764/180
 BOT CHORD 2-18=-395/3005, 16-18=-245/2589, 13-16=-106/2059, 12-13=-107/1695
 WEBS 3-18=-294/194, 5-18=-30/599, 5-16=-730/232, 6-16=-17/810, 7-16=-143/285,
 7-13=-575/132, 8-13=-11/663, 9-13=-46/339, 9-12=-577/123, 10-12=-109/1825

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 18-11-0, Exterior(2R) 18-11-0 to 23-1-15, Interior(1) 23-1-15 to 29-1-0, Exterior(2R) 29-1-0 to 33-3-15, Interior(1) 33-3-15 to 42-0-12 zone; 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); Pg=15.0 psf; Pf=16.5 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, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
 - 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 1.00 times flat roof load of 11.6 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 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - 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) 11.
 - One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2. This connection is for uplift only and does not consider lateral forces.
 - 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.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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| | | | | | | |
|--------------------|-------|------------|-----|-----|--------------------|-----------|
| Job | Truss | Truss Type | Qty | Ply | 150.1910 C_10x10CP | 157773977 |
| 150_1910_C_10X10CP | H6 | Hip | 1 | 1 | | |

84 Components (Dunn, NC), Dunn, NC - 28334,

8.630 s Nov 19 2022 MiTek Industries, Inc. Thu Apr 13 16:06:14 2023 Page 1

ID:VMD62rz1yiHD_OqRtbnrFztQ8K-pDgOfIWZqeJuTQvaK5vfZoiqYbx6b9gL5KWWi_zR4at



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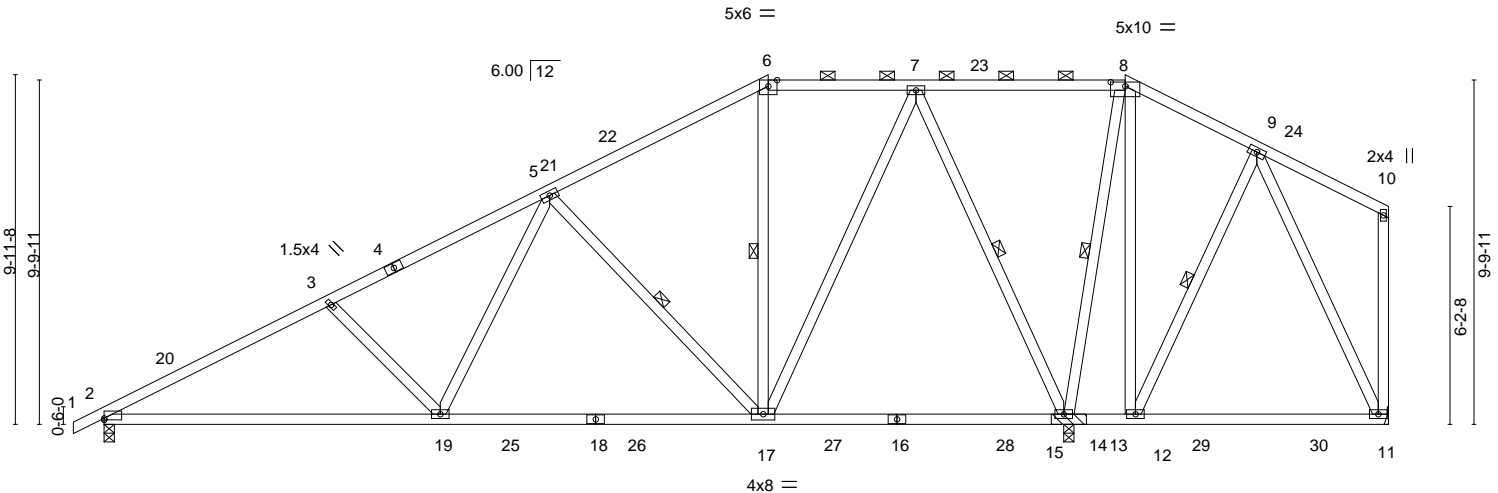


Plate Offsets (X,Y)-- [2:0-0-0,0-0-9], [8:0-5-0,0-1-7]

| LOADING (psf) | SPACING- | CSI. | DEFL. | PLATES | GRIP |
|------------------------|----------------------|----------|------------------------------|----------------|----------|
| TCLL (roof) 20.0 | 2-0-0 | TC 0.61 | in (loc) l/defl L/d | MT20 | 244/190 |
| Snow (Pf/Pg) 16.5/15.0 | Plate Grip DOL 1.15 | BC 0.85 | Vert(LL) -0.18 2-19 >999 240 | | |
| TCDL 10.0 | Lumber DOL 1.15 | WB 0.66 | Vert(CT) -0.39 2-19 >847 180 | | |
| BCLL 0.0 * | Rep Stress Incr YES | Matrix-S | Horz(CT) 0.03 14 n/a n/a | | |
| BCDL 10.0 | Code IRC2018/TPI2014 | | | Weight: 251 lb | FT = 20% |

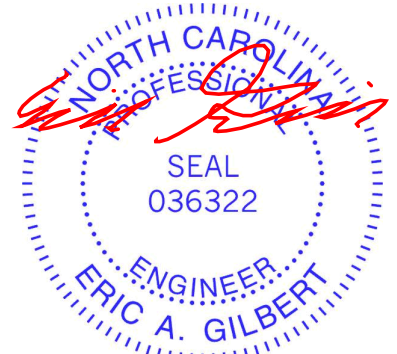
LUMBER-
 TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2 *Except*
 2-18,11-16: 2x4 SP No.1
 WEBS 2x4 SP No.2 *Except*
 3-19,10-11: 2x4 SP No.3

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 3-8-4 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 6-8.
 BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
 WEBS 1 Row at midpt 5-17, 6-17, 7-14, 8-14, 9-12

REACTIONS. (size) 2=0-3-8, 14=(0-3-8 + bearing block) (req. 0-3-11), 11=Mechanical
 Max Horz 2=284(LC 16)
 Max Uplift 2=105(LC 16), 14=194(LC 16), 11=277(LC 56)
 Max Grav 2=1079(LC 3), 14=2335(LC 3), 11=126(LC 45)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-1662/158, 3-5=-1454/136, 5-6=-593/106, 6-7=-466/127, 7-8=-25/478, 8-9=-38/394
 BOT CHORD 2-19=-340/1423, 17-19=-188/974, 12-14=-335/83
 WEBS 3-19=-329/201, 5-19=-32/653, 5-17=-776/232, 7-14=-1298/180, 8-14=-904/119,
 8-12=-44/544, 9-12=-436/115, 9-11=-84/458, 7-17=-133/1027

- NOTES-**
- 1) 2x4 SP No.2 bearing block 12" long at jt. 14 attached to front face with 2 rows of 10d (0.131"x3") nails spaced 3" o.c. 8 Total fasteners. User Defined Bearing crushing capacity= 425psi.
 - 2) Unbalanced roof live loads have been considered for this design.
 - 3) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 18-11-0, Exterior(2R) 18-11-0 to 23-1-8, Interior(1) 23-1-8 to 29-1-0, Exterior(2R) 29-1-0 to 33-3-15, Interior(1) 33-3-15 to 36-5-4 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 4) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=15.0 psf; Pf=16.5 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, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
 - 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 1.00 times flat roof load of 11.6 psf on overhangs non-concurrent with other live loads.
 - 7) Provide adequate drainage to prevent water ponding.
 - 8) All plates are 3x6 MT20 unless otherwise indicated.
 - 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 where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - 11) Refer to girder(s) for truss to truss connections.
 - 12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 11=277.
 - 13) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 14. This



April 14, 2023

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| | | | | | | |
|--------------------|-------|------------|-----|-----|--------------------------|-----------|
| Job | Truss | Truss Type | Qty | Ply | 150.1910 C_10x10CP | 157773977 |
| 150_1910_C_10X10CP | H6 | Hip | 1 | 1 | Job Reference (optional) | |

84 Components (Dunn, NC), Dunn, NC - 28334,

8.630 s Nov 19 2022 MiTek Industries, Inc. Thu Apr 13 16:06:14 2023 Page 2
 ID:VMD62rz1yiHD_OqRtbnrIFztQ8K-pDgOfIWZqeJuTQvaK5vfZOiqYbx6b9gL5KWwi_zR4at

NOTES-

- 14) 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.
- 15) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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

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| | | | | | | |
|--------------------|-------|------------|-----|-----|--------------------|-----------|
| Job | Truss | Truss Type | Qty | Ply | 150.1910 C_10x10CP | 157773978 |
| 150_1910_C_10X10CP | H7 | Hip | 1 | 1 | | |

84 Components (Dunn, NC),

Dunn, NC - 28334,

8.630 s Nov 19 2022 MiTek Industries, Inc. Thu Apr 13 16:06:16 2023 Page 1

ID:VMD62rz1yiHD_OqRtbnrIFztQ8K-lco84RYqMGZcij3zSWy7epnATPdy33geYe?0ntzR4ar



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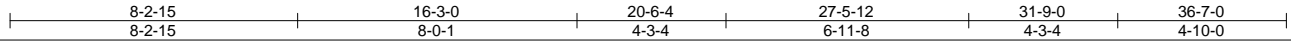
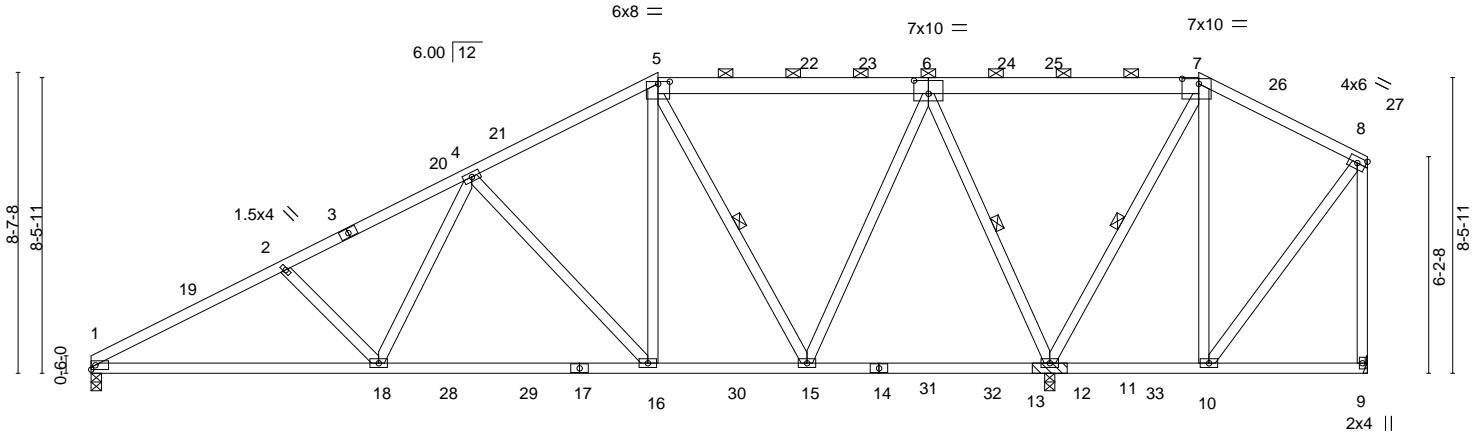


Plate Offsets (X,Y)-- [5:0-4-0,0-12], [6:0-5-0,0-4-8], [7:0-5-12,0-1-12]

| LOADING (psf) | SPACING- | CSI. | DEFL. | PLATES | GRIP |
|------------------------|----------------------|----------|-------------------------------|----------------|----------|
| TCLL (roof) 20.0 | Plate Grip DOL 1.15 | TC 0.58 | in (loc) l/defl L/d | MT20 | 244/190 |
| Snow (Pf/Pg) 16.5/15.0 | Lumber DOL 1.15 | BC 0.89 | Vert(LL) -0.14 16-18 >999 240 | | |
| TCDL 10.0 | Rep Stress Incr YES | WB 0.69 | Vert(CT) -0.26 1-18 >999 180 | | |
| BCLL 0.0 * | Code IRC2018/TPI2014 | Matrix-S | Horz(CT) 0.04 12 n/a n/a | | |
| BCDL 10.0 | | | | Weight: 247 lb | FT = 20% |

LUMBER-

| | |
|-----------|--|
| TOP CHORD | 2x4 SP No.2 *Except* 6-7,5-6: 2x6 SP No.2 |
| BOT CHORD | 2x4 SP No.2 |
| WEBS | 2x4 SP No.2 *Except* 2-18,4-18,8-9: 2x4 SP No.3 |

BRACING-

| | |
|-----------|--|
| TOP CHORD | Structural wood sheathing directly applied or 3-10-3 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 5-7. |
| BOT CHORD | Rigid ceiling directly applied or 6-0-0 oc bracing. |
| WEBS | 1 Row at midpt 5-15, 6-12, 7-12 |

REACTIONS. (size) 1=0-3-9, 12=(0-3-8 + bearing block) (req. 0-3-12), 9=Mechanical
 Max Horz 1=255(LC 16)
 Max Uplift 1=-79(LC 16), 12=-188(LC 13), 9=-281(LC 55)
 Max Grav 1=1018(LC 57), 12=2403(LC 3), 9=89(LC 16)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-1701/150, 2-4=-1527/131, 4-5=-803/104, 5-6=-350/70, 6-7=-51/626, 7-8=-45/285, 8-9=-65/343
 BOT CHORD 1-18=-323/1459, 16-18=-191/1074, 15-16=-59/657
 WEBS 2-18=-271/177, 4-18=-25/554, 4-16=-673/192, 5-16=-72/734, 5-15=-751/148, 6-15=-70/974, 6-12=-1439/226, 7-12=-918/129, 7-10=-16/442, 8-10=-352/86

- NOTES-**
- 2x4 SP No.2 bearing block 12" long at jt. 12 attached to front face with 2 rows of 10d (0.131"x3") nails spaced 3" o.c. 8 Total fasteners. User Defined Bearing crushing capacity= 425psi.
 - Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-1-13 to 3-1-13, Interior(1) 3-1-13 to 16-3-0, Exterior(2R) 16-3-0 to 20-5-15, Interior(1) 20-5-15 to 31-9-0, Exterior(2R) 31-9-0 to 35-11-15, Interior(1) 35-11-15 to 36-5-4 zone;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); Pg=15.0 psf; Pf=16.5 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, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
 - Unbalanced snow loads have been considered for this design.
 - Provide adequate drainage to prevent water ponding.
 - All plates are 3x6 MT20 unless otherwise indicated.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - 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) 9=281.
 - One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 1 and 12. This connection is for uplift only and does not consider lateral forces.



April 14, 2023

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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818 Soundside Road
Edenton, NC 27932

| | | | | | | |
|--------------------|-------|------------|-----|-----|--------------------------|-----------|
| Job | Truss | Truss Type | Qty | Ply | 150.1910 C_10x10CP | 157773978 |
| 150_1910_C_10X10CP | H7 | Hip | 1 | 1 | Job Reference (optional) | |

84 Components (Dunn, NC), Dunn, NC - 28334,

8.630 s Nov 19 2022 MiTek Industries, Inc. Thu Apr 13 16:06:17 2023 Page 2
 ID:VMD62rz1yiHD_OqRtbnrlFztQ8K-DoMWHnYS7ZITKte90ETMA0KLDzBoWvnnllaJzR4aq

NOTES-

- 13) 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.
- 14) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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

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

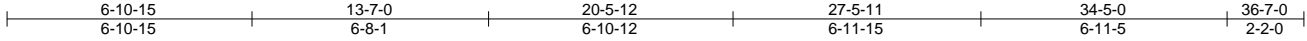


818 Soundside Road
 Edenton, NC 27932

| | | | | | | |
|--------------------|-------|------------|-----|-----|--------------------|-----------|
| Job | Truss | Truss Type | Qty | Ply | 150.1910 C_10x10CP | 157773979 |
| 150_1910_C_10X10CP | H8 | Hip | 1 | 1 | | |

84 Components (Dunn, NC), Dunn, NC - 28334,

8.630 s Nov 19 2022 MiTek Industries, Inc. Thu Apr 13 16:06:18 2023 Page 1
 ID:VMD62rz1yiHD_OqRtbnrlFztQ8K-h?wvU7Z4utqKx1DLZx_bjEtSqCLsXxRw0yU7rmzR4ap



Scale = 1:65.0

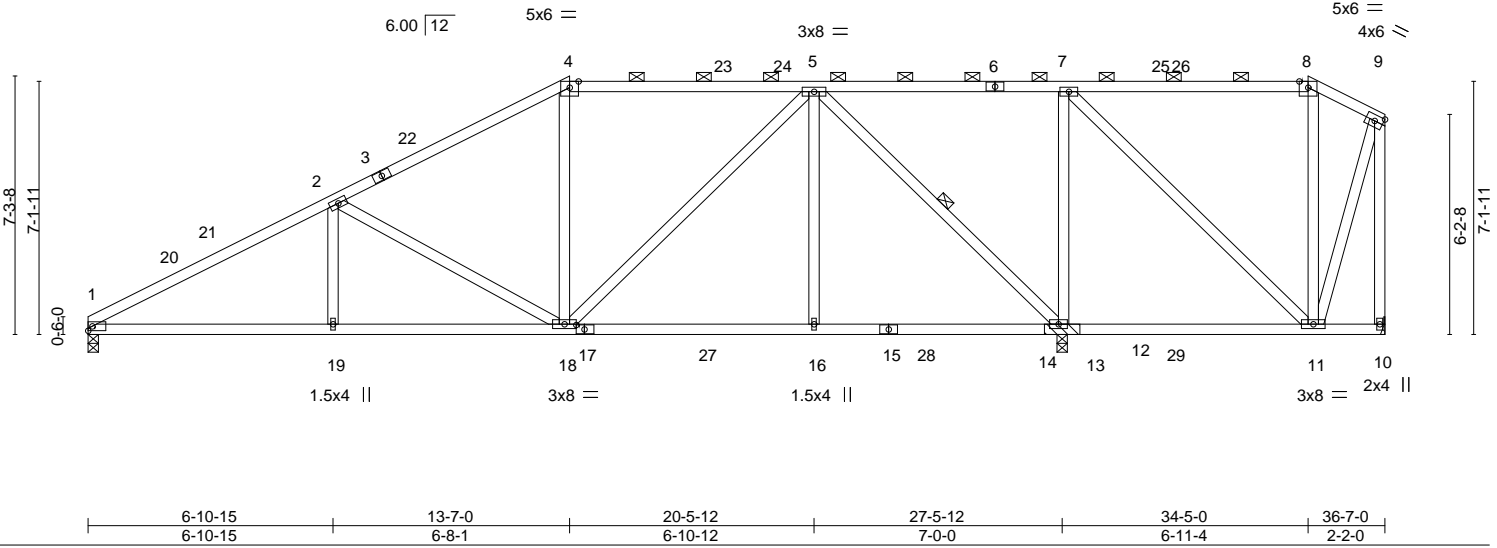


Plate Offsets (X,Y)-- [17:0-2-12,0-1-8]

| LOADING (psf) | SPACING- | CSI. | DEFL. | PLATES | GRIP |
|------------------------|----------------------|----------|------------------------------|----------------|----------|
| TCLL (roof) 20.0 | 2-0-0 | TC 0.85 | in (loc) l/defl L/d | MT20 | 244/190 |
| Snow (Pf/Pg) 16.5/15.0 | Plate Grip DOL 1.15 | BC 0.74 | Vert(LL) -0.10 1-19 >999 240 | | |
| TCDL 10.0 | Lumber DOL 1.15 | WB 0.80 | Vert(CT) -0.19 1-19 >999 180 | | |
| BCLL 0.0 * | Rep Stress Incr YES | Matrix-S | Horz(CT) 0.04 13 n/a n/a | | |
| BCDL 10.0 | Code IRC2018/TPI2014 | | | Weight: 228 lb | FT = 20% |

LUMBER-

TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2
 WEBS 2x4 SP No.2 *Except*
 2-19,9-10,9-11: 2x4 SP No.3

BRACING-

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

REACTIONS.

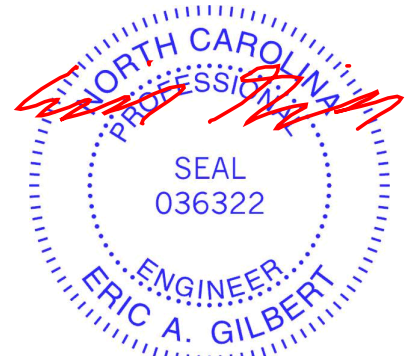
(size) 1=0-3-8, 13=(0-3-8 + bearing block) (req. 0-3-10), 10=Mechanical
 Max Horz 1=234(LC 16)
 Max Uplift 1=80(LC 16), 13=223(LC 13), 10=141(LC 57)
 Max Grav 1=1033(LC 57), 13=2310(LC 45), 10=46(LC 16)

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

TOP CHORD 1-2=-1738/127, 2-4=-1130/116, 4-5=-937/136, 5-7=-26/559
 BOT CHORD 1-19=-270/1487, 18-19=-270/1487, 16-18=-89/593, 13-16=-89/593, 11-13=-559/45
 WEBS 2-19=0/291, 2-18=-728/198, 5-18=-116/609, 5-16=0/383, 5-13=-1538/152, 7-11=-57/760,
 8-11=-313/102, 7-13=-968/203

NOTES-

- 2x4 SP No.2 bearing block 12" long at jt. 13 attached to front face with 2 rows of 10d (0.131"x3") nails spaced 3" o.c. 8 Total fasteners. User Defined Bearing crushing capacity= 425psi.
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 13-7-0, Exterior(2R) 13-7-0 to 17-9-15, Interior(1) 17-9-15 to 34-5-0, Exterior(2E) 34-5-0 to 36-5-4 zone;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); Pg=15.0 psf; Pf=16.5 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, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- Unbalanced snow loads have been considered for this design.
- Provide adequate drainage to prevent water ponding.
- All plates are 3x6 MT20 unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 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) 10=141.
- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 1 and 13. This connection is for uplift only and does not consider lateral forces.
- 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.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



April 14, 2023

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

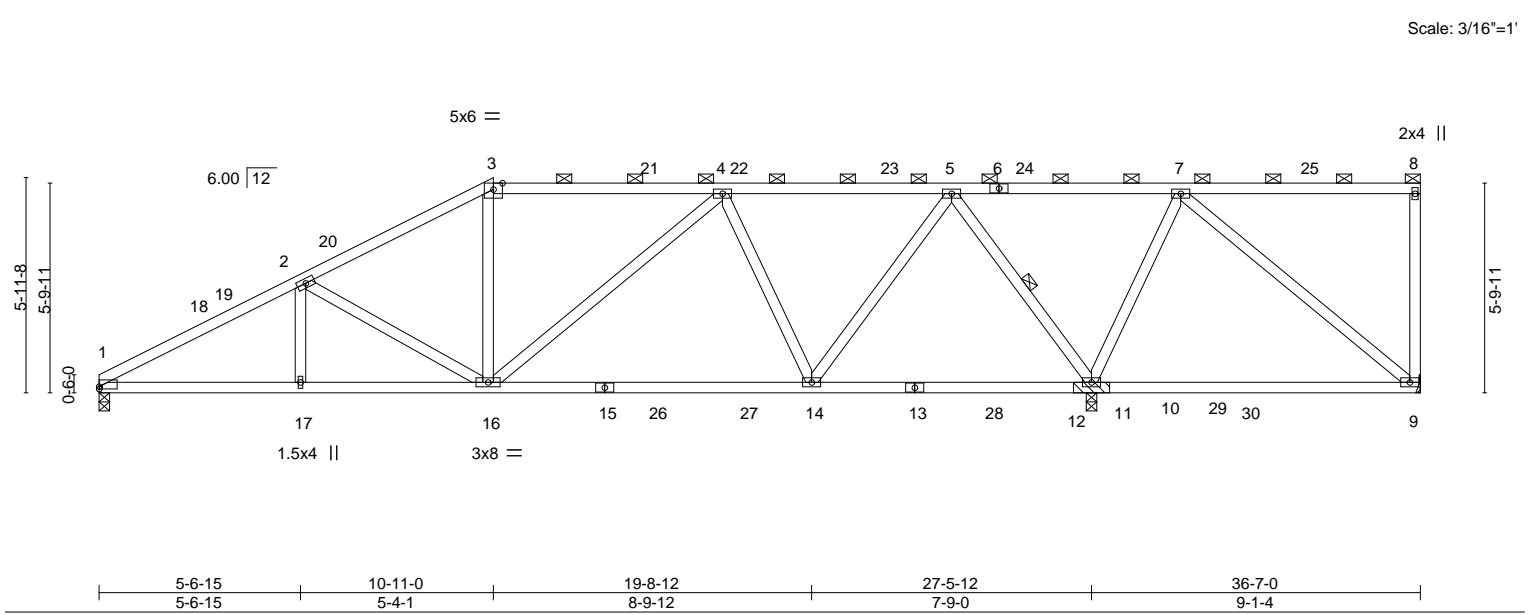
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



818 Soundside Road
 Edenton, NC 27932

| | | | | | | |
|--------------------|-------|------------|-----|-----|--------------------|-----------|
| Job | Truss | Truss Type | Qty | Ply | 150.1910 C_10x10CP | 157773980 |
| 150_1910_C_10X10CP | H9 | Half Hip | 1 | 1 | | |

84 Components (Dunn, NC), Dunn, NC - 28334, 8.630 s Nov 19 2022 MiTek Industries, Inc. Thu Apr 13 16:06:21 2023 Page 1
 ID:VMD62rz1yiHD_OqRtbnrlFzQ8K-5ac178byBoCuoUywF3XILsVy8QLokJ3NiwjnS4zR4am



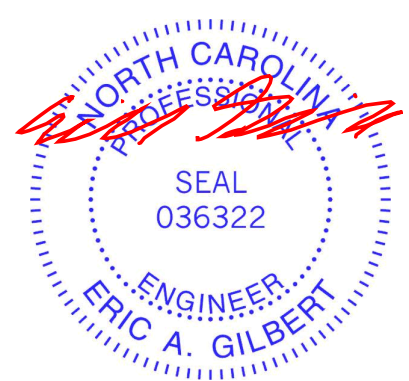
| LOADING (psf) | | SPACING- | | CSI. | | DEFL. | | | | PLATES | | GRIP | |
|---------------|-----------|-----------------|-----------------|----------|------|----------|-------|------|------|--------|------|---------|-------------------------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 2-0-0 | TC | 0.84 | Vert(LL) | -0.24 | 9-11 | >452 | 240 | MT20 | 244/190 | |
| Snow (Pf/Pg) | 16.5/15.0 | Lumber DOL | 1.15 | BC | 0.79 | Vert(CT) | -0.41 | 9-11 | >264 | 180 | | | |
| TCDL | 10.0 | Rep Stress Incr | YES | WB | 0.68 | Horz(CT) | 0.04 | 11 | n/a | n/a | | | |
| BCLL | 0.0 * | Code | IRC2018/TPI2014 | Matrix-S | | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | | | Weight: 202 lb FT = 20% |

| LUMBER- | | BRACING- | |
|-----------|---|-----------|---|
| TOP CHORD | 2x4 SP No.2 | TOP CHORD | Structural wood sheathing directly applied or 3-11-6 oc purlins, except end verticals, and 2-0-0 oc purlins (4-11-5 max.): 3-8. |
| BOT CHORD | 2x4 SP No.2 | BOT CHORD | Rigid ceiling directly applied or 6-0-0 oc bracing. |
| WEBS | 2x4 SP No.3 *Except* 4-16,5-14,5-11,7-9: 2x4 SP No.2 | WEBS | 1 Row at midpt 5-11 |

REACTIONS. (size) 1=0-3-8, 9=Mechanical, 11=(0-3-8 + bearing block) (req. 0-3-12)
 Max Horz 1=203(LC 16)
 Max Uplift 1=66(LC 16), 9=200(LC 41), 11=280(LC 13)
 Max Grav 1=1003(LC 39), 9=38(LC 16), 11=2372(LC 38)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-1719/113, 2-3=-1298/111, 3-4=-1103/123, 4-5=-643/71, 5-7=-103/844
 BOT CHORD 1-17=-235/1472, 16-17=-235/1472, 14-16=-138/895, 9-11=-489/27
 WEBS 2-16=-543/167, 3-16=0/299, 4-16=-71/441, 4-14=-661/164, 5-14=-61/1090,
 5-11=-1452/242, 7-11=-938/209, 7-9=-32/678

- NOTES-**
- 2x4 SP No.2 bearing block 12" long at jt. 11 attached to front face with 2 rows of 10d (0.131"x3") nails spaced 3" o.c. 8 Total fasteners. User Defined Bearing crushing capacity= 425psi.
 - Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 10-11-0, Exterior(2R) 10-11-0 to 15-1-15, Interior(1) 15-1-15 to 36-5-4 zone;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); Pg=15.0 psf; Pf=16.5 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, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
 - Unbalanced snow loads have been considered for this design.
 - Provide adequate drainage to prevent water ponding.
 - All plates are 3x6 MT20 unless otherwise indicated.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - 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) 9=200.
 - One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 1 and 11. This connection is for uplift only and does not consider lateral forces.
 - 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.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

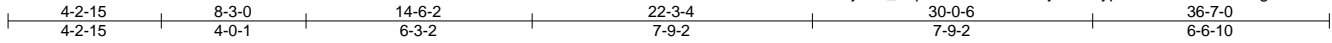


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ENGINEERING BY
TRENCO
 A MiTek Affiliate
 818 Soundside Road
 Edenton, NC 27932

| | | | | | | |
|--------------------|-------|------------|-----|-----|--------------------|-----------|
| Job | Truss | Truss Type | Qty | Ply | 150.1910 C_10x10CP | 157773981 |
| 150_1910_C_10X10CP | H10 | Half Hip | 1 | 1 | | |

84 Components (Dunn, NC), Dunn, NC - 28334, 8.630 s Nov 19 2022 MiTek Industries, Inc. Thu Apr 13 16:06:02 2023 Page 1
 ID:VMD62rz1yiHD_OqRtbnrlFztQ8K-9wyr8fN2fypb0a?Gdair3sChYlsgntakTcHlhZr4b3



Scale: 3/16"=1'

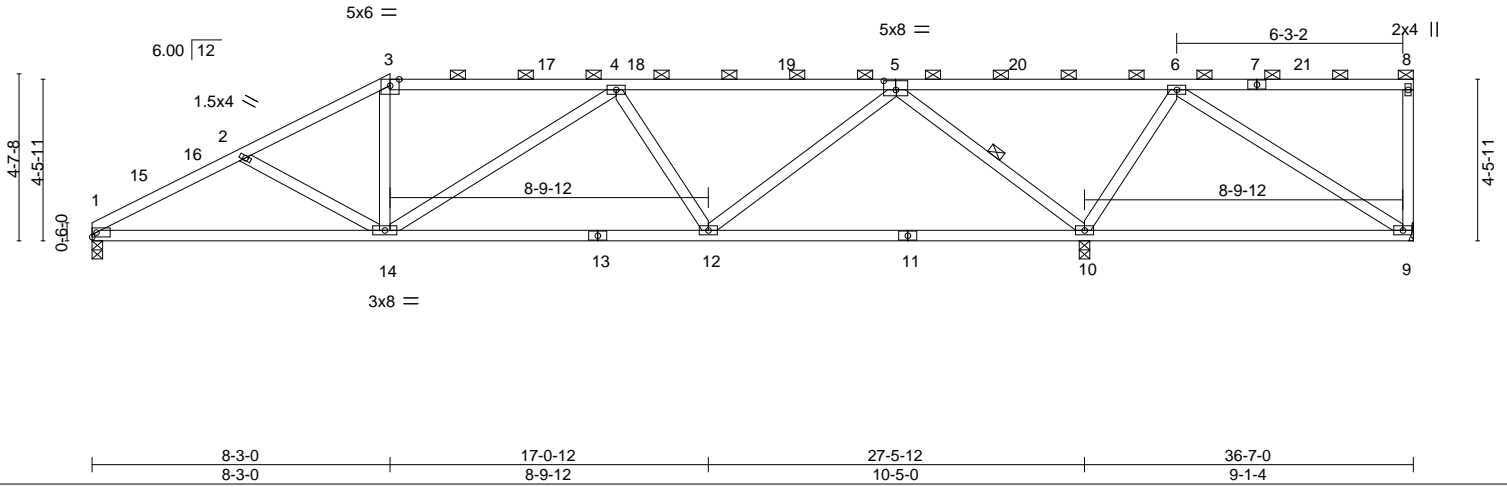


Plate Offsets (X,Y)-- [5:0-4-0,0-3-0]

| LOADING (psf) | SPACING- | CSI. | DEFL. | PLATES | GRIP |
|------------------------|----------------------|----------|-------------------------------|----------------|----------|
| TCLL (roof) 20.0 | Plate Grip DOL 1.15 | TC 1.00 | in (loc) l/defl L/d | MT20 | 244/190 |
| Snow (Pf/Pg) 16.5/15.0 | Lumber DOL 1.15 | BC 0.83 | Vert(LL) -0.18 10-12 >999 240 | | |
| TCDL 10.0 | Rep Stress Incr YES | WB 0.52 | Vert(CT) -0.38 10-12 >865 180 | | |
| BCLL 0.0 * | Code IRC2018/TPI2014 | Matrix-S | Horz(CT) 0.04 10 n/a n/a | | |
| BCDL 10.0 | | | | Weight: 184 lb | FT = 20% |

LUMBER-

TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2
 WEBS 2x4 SP No.3 *Except*
 4-14,5-12,5-10,6-9: 2x4 SP No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-4-6 oc purlins, except end verticals, and 2-0-0 oc purlins (2-2-0 max.): 3-8.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 9-10.
 WEBS 1 Row at midpt 5-10

REACTIONS.

(size) 1=0-3-8, 9=Mechanical, 10=0-3-8
 Max Horz 1=155(LC 16)
 Max Uplift 1=52(LC 16), 9=135(LC 37), 10=307(LC 13)
 Max Grav 1=932(LC 2), 9=20(LC 16), 10=2156(LC 36)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-1604/160, 2-3=-1402/135, 3-4=-1203/136, 4-5=-1069/121, 5-6=-177/1031
 BOT CHORD 1-14=-228/1366, 12-14=-206/1340, 10-12=-98/318, 9-10=-530/44
 WEBS 2-14=-288/161, 3-14=0/375, 4-12=-520/164, 5-12=-36/1016, 5-10=-1705/346,
 6-10=-1049/256, 6-9=-51/661

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-1-12 to 3-1-12. Interior(1) 3-1-12 to 8-3-0, Exterior(2R) 8-3-0 to 12-5-15, Interior(1) 12-5-15 to 36-5-4 zone;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); Pg=15.0 psf; Pf=16.5 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, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- Unbalanced snow loads have been considered for this design.
- Provide adequate drainage to prevent water ponding.
- All plates are 3x6 MT20 unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 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) 9=135.
- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 1 and 10. This connection is for uplift only and does not consider lateral forces.
- 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.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



April 14, 2023

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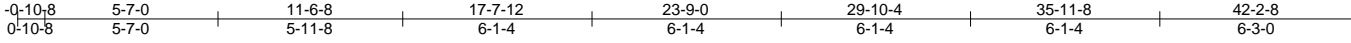
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818 Soundside Road
 Edenton, NC 27932

| | | | | | | |
|--------------------|-------|-----------------|-----|-----|--------------------------|-----------|
| Job | Truss | Truss Type | Qty | Ply | 150.1910 C_10x10CP | 157773982 |
| 150_1910_C_10X10CP | HG1 | Half Hip Girder | 1 | 2 | Job Reference (optional) | |

84 Components (Dunn, NC), Dunn, NC - 28334, 8.630 s Nov 19 2022 MiTek Industries, Inc. Thu Apr 13 16:06:34 2023 Page 1
 ID:VMD62rz1yiHD_OgRtbnrFztQ8K-D4uyrbm67or2sURQVIGLMcXJHfmzHdHhRMzQzR4aZ



Scale = 1:74.3

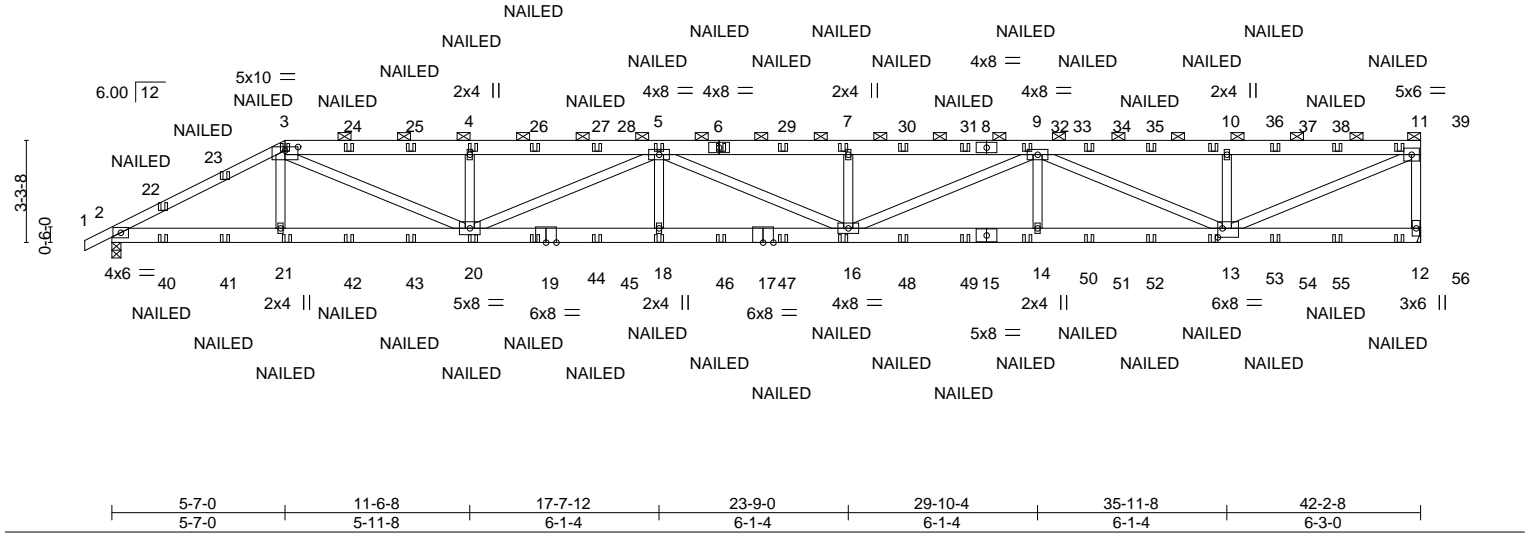


Plate Offsets (X,Y)-- [3:0-5-0-0-1-7], [13:0-1-12,0-3-8]

| LOADING (psf) | SPACING- | CSI. | DEFL. | PLATES | GRIP |
|------------------------|----------------------|----------|-------------------------------|----------------|----------|
| TCLL (roof) 20.0 | Plate Grip DOL 1.15 | TC 0.37 | in (loc) l/defl L/d | MT20 | 244/190 |
| Snow (Pf/Pg) 16.5/15.0 | Lumber DOL 1.15 | BC 0.84 | Vert(LL) 0.45 16-18 >999 240 | | |
| TCDL 10.0 | Rep Stress Incr NO | WB 0.58 | Vert(CT) -0.71 16-18 >707 180 | | |
| BCLL 0.0 * | Code IRC2018/TPI2014 | Matrix-S | Horz(CT) 0.12 12 n/a n/a | | |
| BCDL 10.0 | | | | Weight: 552 lb | FT = 20% |

| LUMBER- | BRACING- |
|--|--|
| TOP CHORD 2x6 SP No.2 *Except* 1-3: 2x4 SP No.2 | TOP CHORD Structural wood sheathing directly applied or 5-7-5 oc purlins, except end verticals, and 2-0-0 oc purlins (5-2-3 max.): 3-11. |
| BOT CHORD 2x6 SP No.2 | BOT CHORD Rigid ceiling directly applied or 9-9-4 oc bracing. |
| WEBS 2x4 SP No.3 *Except* 3-20,5-20,5-16,9-16,9-13,11-13: 2x4 SP No.2 | |

REACTIONS. (size) 12=Mechanical, 2=0-3-8
 Max Horz 2=115(LC 12)
 Max Uplift 12=-776(LC 9), 2=-647(LC 9)
 Max Grav 12=2348(LC 2), 2=2377(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-4502/1343, 3-4=-6833/2215, 4-5=-6832/2214, 5-7=-8469/2774, 7-9=-8469/2774, 9-10=-4342/1426, 10-11=-4342/1426, 11-12=-2240/814
 BOT CHORD 2-21=-1209/3906, 20-21=-1213/3892, 18-20=-2732/8372, 16-18=-2732/8372, 14-16=-2341/7123, 13-14=-2341/7123
 WEBS 3-21=0/383, 3-20=-1126/3294, 4-20=-562/359, 5-20=-1711/576, 5-18=0/345, 7-16=-498/331, 9-16=-478/1484, 9-14=0/342, 9-13=-3066/1008, 10-13=-540/355, 11-13=-1549/4715

- 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, 2x6 - 2 rows staggered at 0-9-0 oc.
 Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 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=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; 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); Pg=15.0 psf; Pf=16.5 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, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
 - 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 1.00 times flat roof load of 11.6 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 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.



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Continued on page (2) for truss to truss connections.

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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 Edenton, NC 27932

| | | | | | | |
|--------------------|-------|-----------------|-----|-----|--------------------------|-----------|
| Job | Truss | Truss Type | Qty | Ply | 150.1910 C_10x10CP | 157773982 |
| 150_1910_C_10X10CP | HG1 | Half Hip Girder | 1 | 2 | Job Reference (optional) | |

84 Components (Dunn, NC), Dunn, NC - 28334,

8.630 s Nov 19 2022 MiTek Industries, Inc. Thu Apr 13 16:06:35 2023 Page 2
ID:VMD62rz1yiHD_OqRtbnrlFztQ8K-hGSK3xmku5zvUe0c30oavp4T136C0g6Rw56XyHzR4aY

NOTES-

- 12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 12=776.
- 13) Two H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2. This connection is for uplift only and does not consider lateral forces.
- 14) 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.
- 15) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 16) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidelines.

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-3=-43, 3-11=-53, 2-12=-20

Concentrated Loads (lb)

Vert: 3=-26(B) 6=-21(B) 21=-17(B) 20=-17(B) 4=-21(B) 5=-21(B) 18=-17(B) 7=-21(B) 16=-17(B) 22=-34(B) 23=-1(B) 24=-21(B) 25=-21(B) 26=-21(B) 27=-21(B) 29=-21(B) 30=-21(B) 31=-21(B) 32=-21(B) 34=-21(B) 35=-21(B) 36=-21(B) 37=-21(B) 38=-21(B) 39=-33(B) 40=-32(B) 41=-65(B) 42=-17(B) 43=-17(B) 44=-17(B) 45=-17(B) 46=-17(B) 47=-17(B) 48=-17(B) 49=-17(B) 50=-17(B) 51=-17(B) 52=-17(B) 53=-17(B) 54=-17(B) 55=-17(B) 56=-22(B)

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

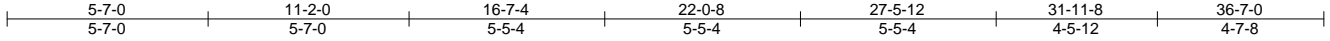


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| | | | | | | |
|--------------------|-------|-----------------|-----|-----|--------------------------|-----------|
| Job | Truss | Truss Type | Qty | Ply | 150.1910 C_10x10CP | 157773983 |
| 150_1910_C_10X10CP | HG10 | HALF HIP GIRDER | 1 | 1 | Job Reference (optional) | |

84 Components (Dunn, NC), Dunn, NC - 28334, 8.630 s Nov 19 2022 MiTek Industries, Inc. Thu Apr 13 16:06:38 2023 Page 1

ID:VMD62r2y1yIH_DqRtbnrlFztQ8K-6r7ShypdA0LUL6IBk8LHXsithGDPD_gtc3KBZbzR4Av



Scale: 3/16"=1'

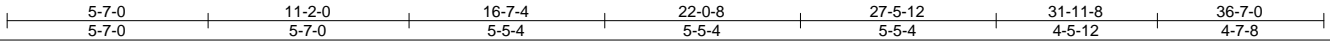
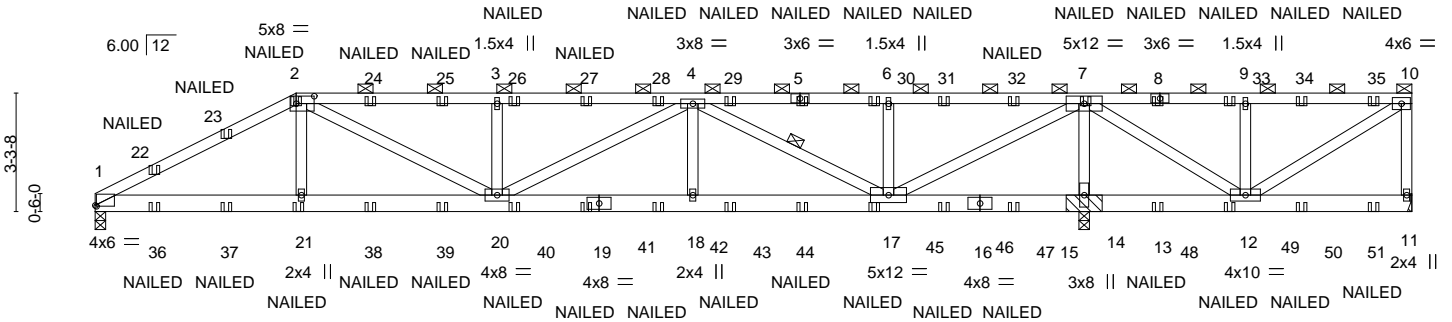


Plate Offsets (X,Y)-- [1:0-0-7,0-0-5], [2:0-6-0,0-2-8]

| LOADING (psf) | SPACING- | CSI. | DEFL. | PLATES | GRIP |
|------------------------|----------------------|----------|-------------------------------|----------------|----------|
| TCLL (roof) 20.0 | Plate Grip DOL 1.15 | TC 0.79 | in (loc) l/defl L/d | MT20 | 244/190 |
| Snow (Pf/Pg) 16.5/15.0 | Lumber DOL 1.15 | BC 0.55 | Vert(LL) 0.17 18-20 >999 240 | | |
| TCDL 10.0 | Rep Stress Incr NO | WB 0.72 | Vert(CT) -0.28 18-20 >999 180 | | |
| BCLL 0.0 * | Code IRC2018/TPI2014 | Matrix-S | Horz(CT) 0.04 14 n/a n/a | | |
| BCDL 10.0 | | | | Weight: 219 lb | FT = 20% |

LUMBER-

TOP CHORD 2x4 SP No.2
 BOT CHORD 2x6 SP No.2
 WEBS 2x4 SP No.3 *Except*
 2-20,4-20,4-17,7-17: 2x4 SP No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-0-5 oc purlins, except end verticals, and 2-0-0 oc purlins (2-10-3 max.); 2-10.
 BOT CHORD Rigid ceiling directly applied or 5-0-13 oc bracing.
 WEBS 1 Row at midpt 4-17

REACTIONS.

(size) 1=0-3-8, 11=Mechanical, 14=(0-3-8 + bearing block) (req. 0-4-8)
 Max Horz 1=107(LC 12)
 Max Uplift 1=307(LC 9), 11=174(LC 2), 14=954(LC 9)
 Max Grav 1=1287(LC 2), 11=49(LC 9), 14=2886(LC 2)

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

TOP CHORD 1-2=-2278/626, 2-3=-2643/848, 3-4=-2643/848, 4-6=-664/227, 6-7=-664/227, 7-9=-190/608, 9-10=-190/608, 10-11=-23/255
 BOT CHORD 1-21=-578/1936, 20-21=-575/1949, 18-20=-728/2236, 17-18=-728/2236, 14-17=-1911/607, 12-14=-1911/607
 WEBS 2-21=0/382, 2-20=-327/835, 3-20=-490/316, 4-20=-136/509, 4-18=0/330, 4-17=-1783/569, 6-17=-445/298, 7-17=-946/2923, 7-14=-2653/989, 7-12=-498/1556, 9-12=-386/251, 10-12=-751/240

NOTES-

- 1) 2x6 SP No.2 bearing block 12" long at jt. 14 attached to front face with 3 rows of 10d (0.131"x3") nails spaced 3" o.c. 12 Total fasteners. User Defined Bearing crushing capacity= 425psi.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; 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); Pg=15.0 psf; Pf=16.5 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, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 4) Unbalanced snow loads have been considered for this design.
- 5) Provide adequate drainage to prevent water ponding.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 8) Refer to girder(s) for truss to truss connections.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 11=174.
- 10) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 1. This connection is for uplift only and does not consider lateral forces.
- 11) Two H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 14. This connection is for uplift only and does not consider lateral forces.
- 12) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and



April 14, 2023

Continued on page 2 standard ANSI/TPI 1.

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

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

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



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 Edenton, NC 27932

| Job | Truss | Truss Type | Qty | Ply | 150.1910 C_10x10CP | 157773983 |
|--------------------|-------|-----------------|-----|-----|--------------------------|-----------|
| 150_1910_C_10X10CP | HG10 | HALF HIP GIRDER | 1 | 1 | Job Reference (optional) | |

84 Components (Dunn, NC), Dunn, NC - 28334,

8.630 s Nov 19 2022 MiTek Industries, Inc. Thu Apr 13 16:06:39 2023 Page 2
ID:VMD62rz1yiHD_OqRtbnrlFztQ8K-a1hrvlpFxFKTLzFKNIrsW3fE2RgYeyRw0rj4k52zR4aU

NOTES-

- 13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 14) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidelines.
- 15) 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: 1-2=-43, 2-10=-53, 1-11=-20

Concentrated Loads (lb)

Vert: 2=-26(F) 5=-21(F) 21=-17(F) 7=-21(F) 8=-21(F) 22=-34(F) 23=-1(F) 24=-21(F) 25=-21(F) 26=-21(F) 27=-21(F) 28=-21(F) 29=-21(F) 30=-21(F) 31=-21(F) 32=-21(F) 33=-21(F) 34=-21(F) 35=-23(F) 36=-32(F) 37=-65(F) 38=-17(F) 39=-17(F) 40=-17(F) 41=-17(F) 42=-17(F) 43=-17(F) 44=-17(F) 45=-17(F) 46=-17(F) 47=-17(F) 48=-17(F) 49=-17(F) 50=-17(F) 51=-18(F)

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

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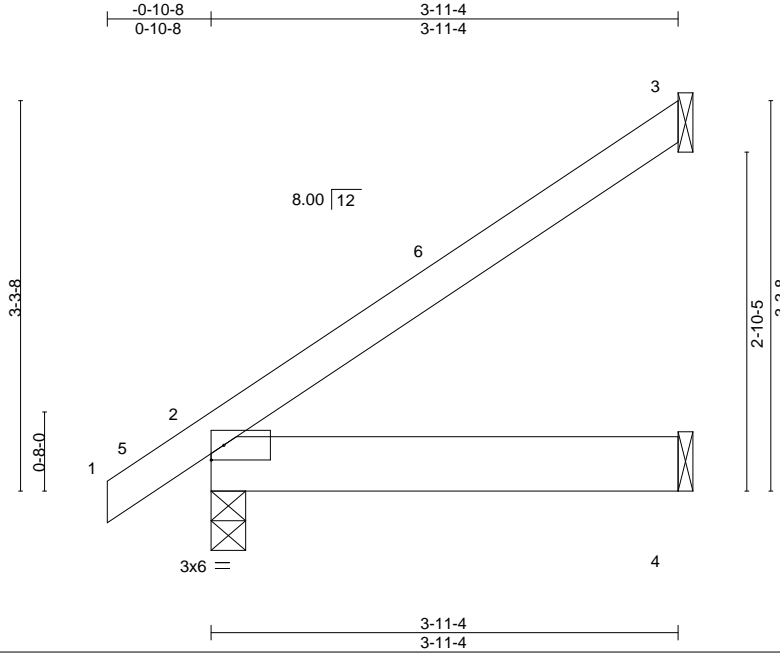
| | | | | | | |
|--------------------|-------|------------|-----|-----|--------------------|-----------|
| Job | Truss | Truss Type | Qty | Ply | 150.1910 C_10x10CP | 157773984 |
| 150_1910_C_10X10CP | J1 | Jack-Open | 35 | 1 | | |

84 Components (Dunn, NC),

Dunn, NC - 28334,

8.630 s Nov 19 2022 MiTek Industries, Inc. Thu Apr 13 16:06:40 2023 Page 1

ID:VMD62rz1yiHD_OqRtbnrFztQ8K-2EFD6eqtiebCaPuasZNIctnMz4?Sh3NA3NpidUzR4aT



Scale = 1:19.4

| LOADING (psf) | SPACING- | CSI. | DEFL. | PLATES | GRIP |
|------------------------|----------------------|----------|-----------------------------|---------------|----------|
| TCLL (roof) 20.0 | 2-0-0 | TC 0.23 | in (loc) l/defl L/d | MT20 | 244/190 |
| Snow (Pf/Pg) 11.6/15.0 | Plate Grip DOL 1.15 | BC 0.07 | Vert(LL) -0.00 2-4 >999 240 | | |
| TCDL 10.0 | Lumber DOL 1.15 | WB 0.00 | Vert(CT) -0.01 2-4 >999 180 | | |
| BCLL 0.0 * | Rep Stress Incr YES | Matrix-P | Horz(CT) -0.00 3 n/a n/a | | |
| BCDL 10.0 | Code IRC2018/TPI2014 | | | Weight: 18 lb | FT = 20% |

| LUMBER- | BRACING- |
|-----------------------|--|
| TOP CHORD 2x4 SP No.2 | TOP CHORD Structural wood sheathing directly applied or 3-11-4 oc purlins. |
| BOT CHORD 2x6 SP No.2 | BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. |

REACTIONS. (size) 3=Mechanical, 2=0-3-8, 4=Mechanical
 Max Horz 2=114(LC 14)
 Max Uplift 3=83(LC 14), 2=7(LC 14)
 Max Grav 3=115(LC 26), 2=219(LC 2), 4=75(LC 5)

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

- NOTES-**
- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 3-10-8 zone; 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); Pg=15.0 psf; Pf=11.6 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) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.6 psf on overhangs non-concurrent with other live loads.
 - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 6) Refer to girder(s) for truss to truss connections.
 - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3.
 - 8) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2. This connection is for uplift only and does not consider lateral forces.
 - 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.



April 14, 2023

| | | | | | | |
|--------------------|-------|------------|-----|-----|--------------------|-----------|
| Job | Truss | Truss Type | Qty | Ply | 150.1910 C_10x10CP | 157773985 |
| 150_1910_C_10X10CP | J2 | Jack-Open | 2 | 1 | | |

84 Components (Dunn, NC),

Dunn, NC - 28334,

8.630 s Nov 19 2022 MiTek Industries, Inc. Thu Apr 13 16:06:41 2023 Page 1

ID:VMD62rz1yiHD_OqRtbnrIFztQ8K-WQpbJ_rVTxj3CZTmQGu_94KZ2UL2QW8J11Zr9wzR4aS

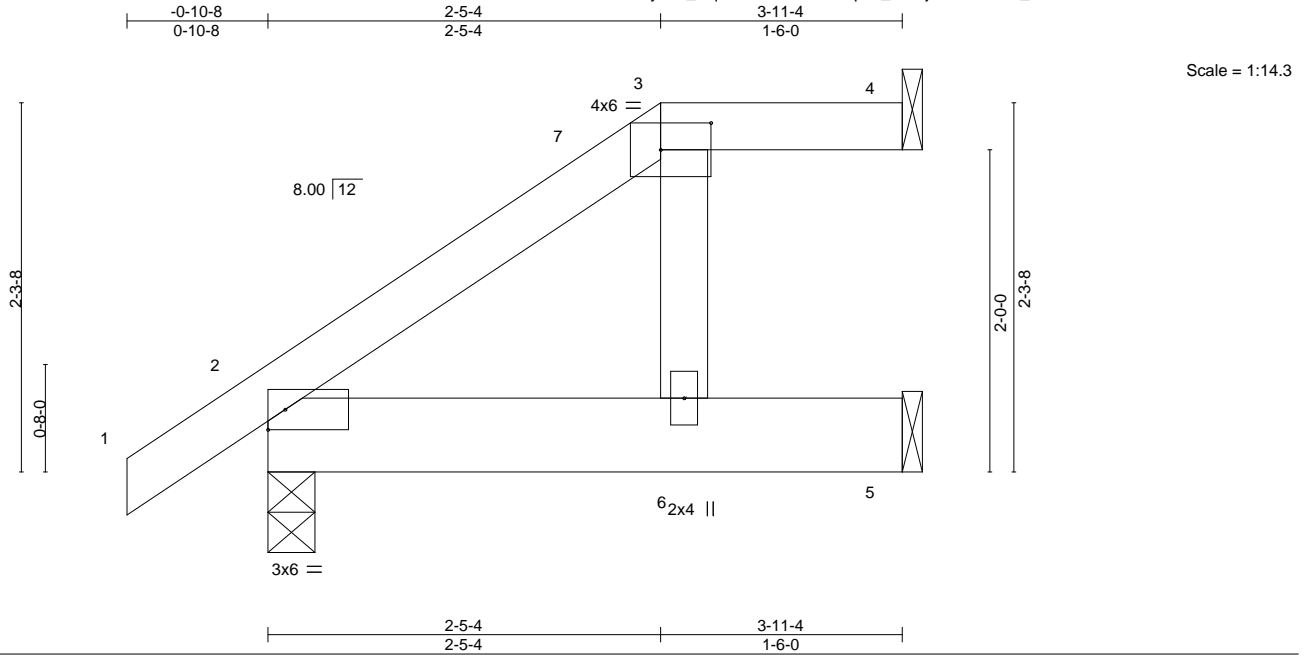


Plate Offsets (X,Y)-- [3:0-3-12,0-2-0]

| LOADING (psf) | SPACING- | CSI. | DEFL. | in (loc) | l/defl | L/d | PLATES | GRIP |
|------------------------|----------------------|----------|----------------|----------|--------|-----|---------------|----------|
| TCLL (roof) 20.0 | 2-0-0 | TC 0.08 | Vert(LL) -0.00 | 6 | >999 | 240 | MT20 | 244/190 |
| Snow (Pf/Pg) 16.5/15.0 | Plate Grip DOL 1.15 | BC 0.11 | Vert(CT) -0.01 | 6 | >999 | 180 | | |
| TCDL 10.0 | Lumber DOL 1.15 | WB 0.03 | Horz(CT) 0.01 | 4 | n/a | n/a | | |
| BCLL 0.0 * | Rep Stress Incr YES | Matrix-P | | | | | | |
| BCDL 10.0 | Code IRC2018/TPI2014 | | | | | | Weight: 20 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 3-11-4 oc purlins, except
 2-0-0 oc purlins: 3-4.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 4=Mechanical, 2=0-3-8, 5=Mechanical
 Max Horz 2=80(LC 14)
 Max Uplift 4=-18(LC 10), 2=-24(LC 14), 5=-14(LC 14)
 Max Grav 4=43(LC 2), 2=219(LC 2), 5=98(LC 2)

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=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 2-5-4, Exterior(2E) 2-5-4 to 3-10-8 zone; 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); Pg=15.0 psf; Pf=16.5 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, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.6 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 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 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) 4.
- N/A
- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2. This connection is for uplift only and does not consider lateral forces.
- 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.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



April 14, 2023

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

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component**Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

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Edenton, NC 27932

| | | | | | | |
|--------------------|-------|------------------|-----|-----|--------------------|-----------|
| Job | Truss | Truss Type | Qty | Ply | 150.1910 C_10x10CP | 157773986 |
| 150_1910_C_10X10CP | J3 | Jack-Open Girder | 2 | 1 | | |

84 Components (Dunn, NC),

Dunn, NC - 28334,

8.630 s Nov 19 2022 MiTek Industries, Inc. Thu Apr 13 16:06:42 2023 Page 1

ID:VMD62rz1yiHD_OqRtbnrIFztQ8K-_cNzXKs7EFrwqj2yz_QDhlsjRthy9ztSXhIOiNzR4aR

Job Reference (optional)

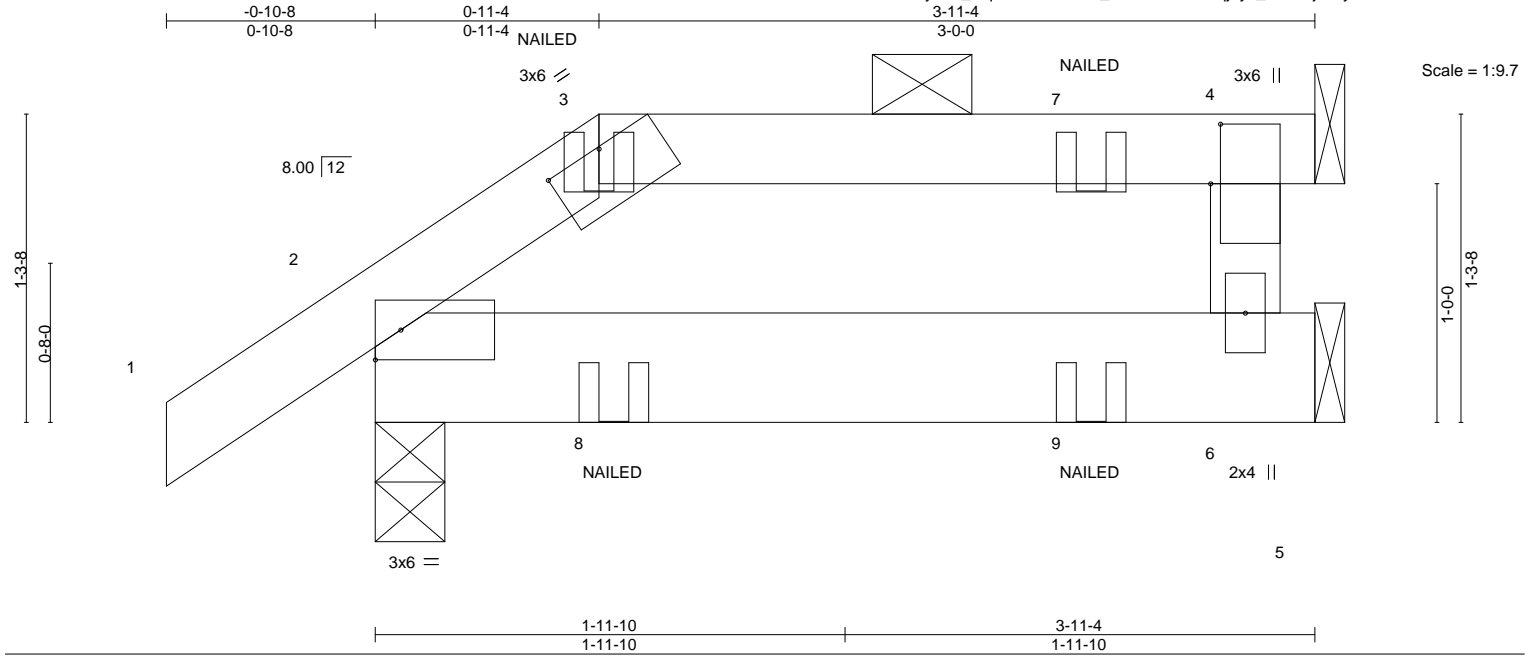


Plate Offsets (X,Y)-- [3:0-3-0,0-0-2], [4:0-3-0,0-0-8]

| LOADING (psf) | SPACING- | CSI. | DEFL. | PLATES | GRIP |
|------------------------|----------------------|----------|-----------------------------|---------------|----------|
| TCLL (roof) 20.0 | 2-0-0 | TC 0.17 | in (loc) l/defl L/d | MT20 | 244/190 |
| Snow (Pf/Pg) 16.5/15.0 | Plate Grip DOL 1.15 | BC 0.07 | Vert(LL) -0.00 2-6 >999 240 | | |
| TCDL 10.0 | Lumber DOL 1.15 | WB 0.00 | Vert(CT) -0.00 2-6 >999 180 | | |
| BCLL 0.0 * | Rep Stress Incr NO | Matrix-P | Horz(CT) 0.01 4 n/a n/a | | |
| BCDL 10.0 | Code IRC2018/TPI2014 | | | Weight: 18 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 3-11-4 oc purlins, except
 2-0-0 oc purlins: 3-4.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 2=0-3-8, 4=Mechanical, 6=Mechanical
 Max Horz 2=44(LC 10)
 Max Uplift 2=-31(LC 10), 4=-42(LC 7)
 Max Grav 2=210(LC 2), 4=86(LC 2), 6=83(LC 5)

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=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; 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); Pg=15.0 psf; Pf=16.5 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, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.6 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 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 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) 4.
- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2. This connection is for uplift only and does not consider lateral forces.
- N/A
- 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.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.
- "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



April 14, 2023

Continued on page 2

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

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

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

ENGINEERING BY
TRENCO
 A MiTek Affiliate

818 Soundside Road
 Edenton, NC 27932

| | | | | | | |
|--------------------|-------|------------------|-----|-----|--------------------------|-----------|
| Job | Truss | Truss Type | Qty | Ply | 150.1910 C_10x10CP | 157773986 |
| 150_1910_C_10X10CP | J3 | Jack-Open Girder | 2 | 1 | Job Reference (optional) | |

84 Components (Dunn, NC),

Dunn, NC - 28334,

8.630 s Nov 19 2022 MiTek Industries, Inc. Thu Apr 13 16:06:42 2023 Page 2
 ID:VMD62rz1yiHD_OqRtbnrIFztQ8K_-cNzXKs7EFrwqj2yz_QDhlsjRthy9ztSXhIOiNzR4aR

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-3=-43, 3-4=-53, 2-5=-20

Concentrated Loads (lb)

Vert: 7=-1(B)

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| | | | | | | |
|--------------------|-------|------------|-----|-----|--------------------------|-----------|
| Job | Truss | Truss Type | Qty | Ply | 150.1910 C_10x10CP | 157773987 |
| 150_1910_C_10X10CP | JA | Jack-Open | 3 | 1 | Job Reference (optional) | |

84 Components (Dunn, NC),

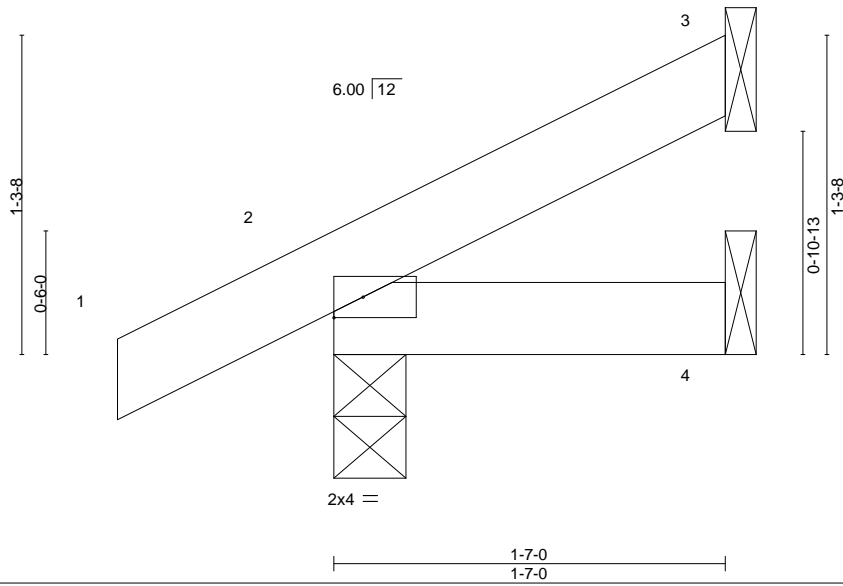
Dunn, NC - 28334,

8.630 s Nov 19 2022 MiTek Industries, Inc. Thu Apr 13 16:06:43 2023 Page 1

ID:VMD62rz1yiHD_OqRtbnrlFztQ8K-SpxLkgsm?ZznRtd9XhxSEVPwxH2ruQ6cmL2yEpzR4aQ



Scale = 1:9.3



| | | | | | | | | |
|------------------------|----------------------|-------------|----------------|----------|--------|-----|---------------|-------------|
| LOADING (psf) | SPACING- | CSI. | DEFL. | in (loc) | l/defl | L/d | PLATES | GRIP |
| TCLL (roof) 20.0 | 2-0-0 | TC 0.05 | Vert(LL) -0.00 | 2 | >999 | 240 | MT20 | 244/190 |
| Snow (Pf/Pg) 11.6/15.0 | Plate Grip DOL 1.15 | BC 0.02 | Vert(CT) -0.00 | 2 | >999 | 180 | | |
| TCDL 10.0 | Lumber DOL 1.15 | WB 0.00 | Horz(CT) -0.00 | 3 | n/a | n/a | | |
| BCLL 0.0 * | Rep Stress Incr YES | Matrix-P | | | | | Weight: 7 lb | FT = 20% |
| BCDL 10.0 | Code IRC2018/TPI2014 | | | | | | | |

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 1-7-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 3=Mechanical, 2=0-3-8, 4=Mechanical
Max Horz 2=44(LC 16)
Max Uplift 3=25(LC 16), 2=22(LC 16)
Max Grav 3=30(LC 23), 2=132(LC 23), 4=31(LC 7)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone;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); Pg=15.0 psf; Pf=11.6 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 1.00 times flat roof load of 11.6 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 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 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) 3.
- 9) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2. This connection is for uplift only and does not consider lateral forces.
- 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.



April 14, 2023

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

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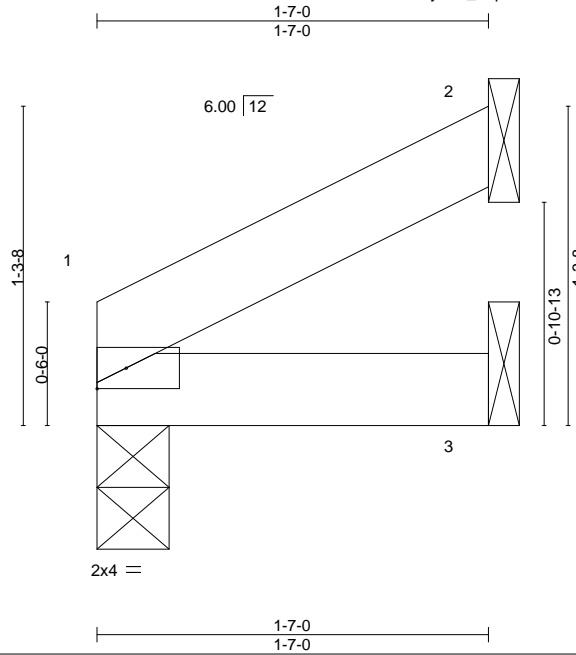
| | | | | | | |
|--------------------|-------|------------|-----|-----|--------------------------|-----------|
| Job | Truss | Truss Type | Qty | Ply | 150.1910 C_10x10CP | 157773988 |
| 150_1910_C_10X10CP | JB | Jack-Open | 1 | 1 | Job Reference (optional) | |

84 Components (Dunn, NC),

Dunn, NC - 28334,

8.630 s Nov 19 2022 MiTek Industries, Inc. Thu Apr 13 16:06:44 2023 Page 1

ID:VMD62rz1yiHD_OqRtbnrIFzTQ8K-w?Uky0tOms5e31CL5PShmjy5vhO4dtML_?nVmFzR4aP



Scale = 1:9.3

| LOADING (psf) | SPACING- | CSI. | DEFL. | in (loc) | l/defl | L/d | PLATES | GRIP |
|------------------------|----------------------|----------|----------------|----------|--------|-----|--------------|----------|
| TCLL (roof) 20.0 | 2-0-0 | TC 0.04 | Vert(LL) -0.00 | 1 | >999 | 240 | MT20 | 244/190 |
| Snow (Pf/Pg) 11.6/15.0 | Plate Grip DOL 1.15 | BC 0.02 | Vert(CT) -0.00 | 1 | >999 | 180 | | |
| TCDL 10.0 | Lumber DOL 1.15 | WB 0.00 | Horz(CT) -0.00 | 2 | n/a | n/a | | |
| BCLL 0.0 * | Rep Stress Incr YES | Matrix-P | | | | | | |
| BCDL 10.0 | Code IRC2018/TPI2014 | | | | | | Weight: 5 lb | FT = 20% |

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 1-7-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 1=0-3-8, 2=Mechanical, 3=Mechanical
Max Horz 1=36(LC 16)
Max Uplift 2=-30(LC 16)
Max Grav 1=62(LC 2), 2=46(LC 2), 3=31(LC 7)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone;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); Pg=15.0 psf; Pf=11.6 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 a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2.
- 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.



April 14, 2023

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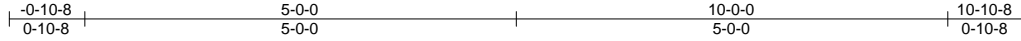
| | | | | | | |
|--------------------|-------|------------|-----|-----|--------------------------|-----------|
| Job | Truss | Truss Type | Qty | Ply | 150.1910 C_10x10CP | 157773989 |
| 150_1910_C_10X10CP | P10 | Common | 4 | 1 | Job Reference (optional) | |

84 Components (Dunn, NC),

Dunn, NC - 28334,

8.630 s Nov 19 2022 MiTek Industries, Inc. Thu Apr 13 16:06:45 2023 Page 1

ID:VMD62rz1yiHD_OqRtbnrIFztQ8K-OB269Mu0XADVhAnXF6zwJwUC35hdMJ8vDFX3JhzR4aO



4x6 =

Scale = 1:26.7

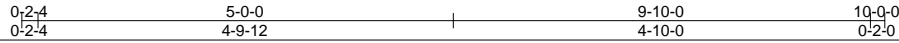
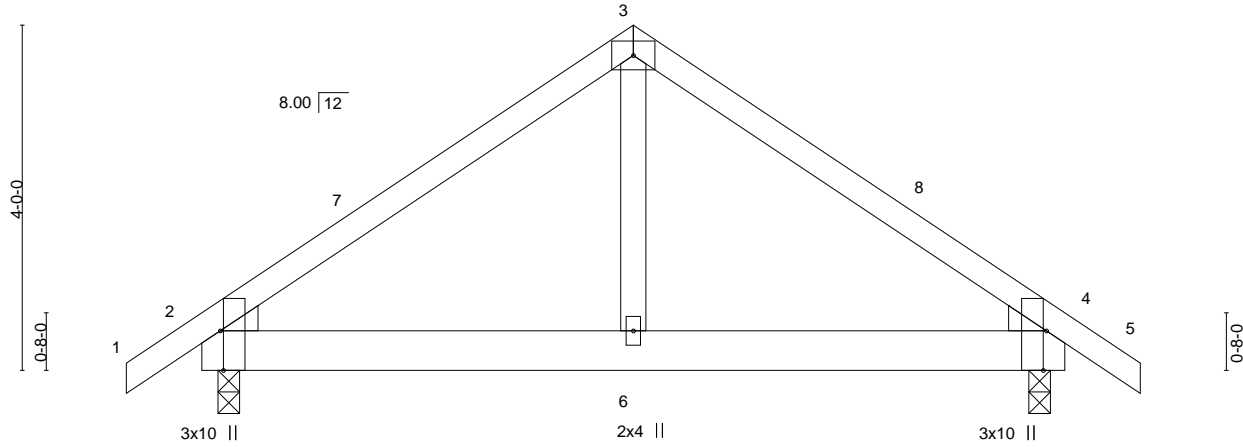


Plate Offsets (X,Y)-- [2:0-5-8,Edge], [4:0-5-8,Edge]

| LOADING (psf) | SPACING- | CSI. | DEFL. | PLATES | GRIP |
|------------------------|----------------------|----------|-----------------------------|---------------|----------|
| TCLL (roof) 20.0 | 2-0-0 | TC 0.27 | in (loc) l/defl L/d | MT20 | 244/190 |
| Snow (Pf/Pg) 11.6/15.0 | Plate Grip DOL 1.15 | BC 0.20 | Vert(LL) -0.01 2-6 >999 240 | | |
| TCDL 10.0 | Lumber DOL 1.15 | WB 0.09 | Vert(CT) -0.01 2-6 >999 180 | | |
| BCLL 0.0 * | Rep Stress Incr YES | Matrix-S | Horz(CT) 0.00 4 n/a n/a | | |
| BCDL 10.0 | Code IRC2018/TPI2014 | | | Weight: 51 lb | FT = 20% |

LUMBER-

TOP CHORD 2x4 SP No.2
 BOT CHORD 2x6 SP No.2
 WEBS 2x4 SP No.3
 WEDGE
 Left: 2x4 SP No.3 , Right: 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.

(size) 2=0-3-0, 4=0-3-0
 Max Horz 2=-92(LC 12)
 Max Uplift 2=-52(LC 14), 4=-52(LC 15)
 Max Grav 2=450(LC 2), 4=450(LC 2)

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

TOP CHORD 2-3=-461/116, 3-4=-461/116
 BOT CHORD 2-6=0/300, 4-6=0/300

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 5-0-0, Exterior(2R) 5-0-0 to 8-0-0, Interior(1) 8-0-0 to 10-10-8 zone;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); Pg=15.0 psf; Pf=11.6 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
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.6 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 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 4. This connection is for uplift only and does not consider lateral forces.
- 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.



April 14, 2023

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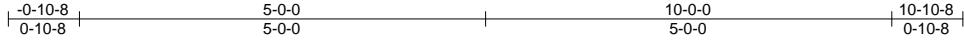
| | | | | | | |
|--------------------|-------|------------|-----|-----|--------------------|-----------|
| Job | Truss | Truss Type | Qty | Ply | 150.1910 C_10x10CP | 157773990 |
| 150_1910_C_10X10CP | P10E | GABLE | 1 | 1 | | |

84 Components (Dunn, NC),

Dunn, NC - 28334,

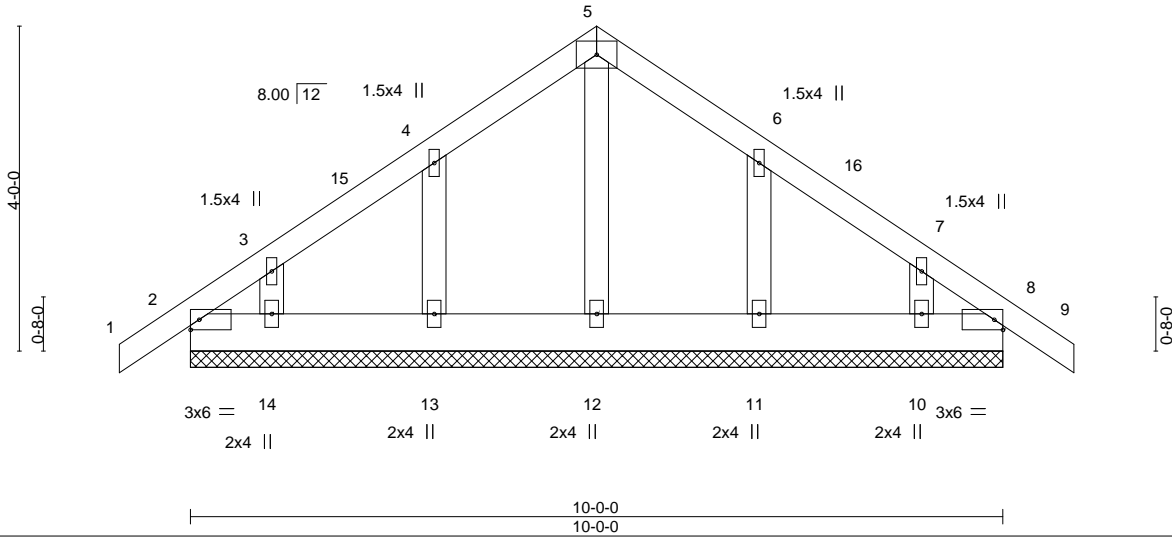
8.630 s Nov 19 2022 MiTek Industries, Inc. Thu Apr 13 16:06:47 2023 Page 1

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4x6 =

Scale = 1:28.4



| LOADING (psf) | SPACING- | CSI. | DEFL. | PLATES | GRIP |
|------------------------|----------------------|----------|--------------------------|---------------|----------|
| TCLL (roof) 20.0 | 2-0-0 | TC 0.05 | in (loc) l/defl L/d | MT20 | 244/190 |
| Snow (Pf/Pg) 11.6/15.0 | Plate Grip DOL 1.15 | BC 0.02 | Vert(LL) -0.00 8 n/r 120 | | |
| TCDL 10.0 | Lumber DOL 1.15 | WB 0.04 | Vert(CT) -0.00 9 n/r 120 | | |
| BCLL 0.0 * | Rep Stress Incr YES | Matrix-S | Horz(CT) 0.00 8 n/a n/a | | |
| BCDL 10.0 | Code IRC2018/TPI2014 | | | Weight: 57 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 6-0-0 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

All bearings 10-0-0.
 (lb) - Max Horz 2=-92(LC 12)
 Max Uplift All uplift 100 lb or less at joint(s) 2, 8, 13, 14, 11, 10
 Max Grav All reactions 250 lb or less at joint(s) 2, 8, 12, 13, 14, 11, 10

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=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3E) -0-10-8 to 2-1-8, Exterior(2N) 2-1-8 to 5-0-0, Corner(3R) 5-0-0 to 8-0-0, Exterior(2N) 8-0-0 to 10-10-8 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=15.0 psf; Pf=11.6 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
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.6 psf on overhangs non-concurrent with other live loads.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- N/A
- 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.



April 14, 2023

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

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

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

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



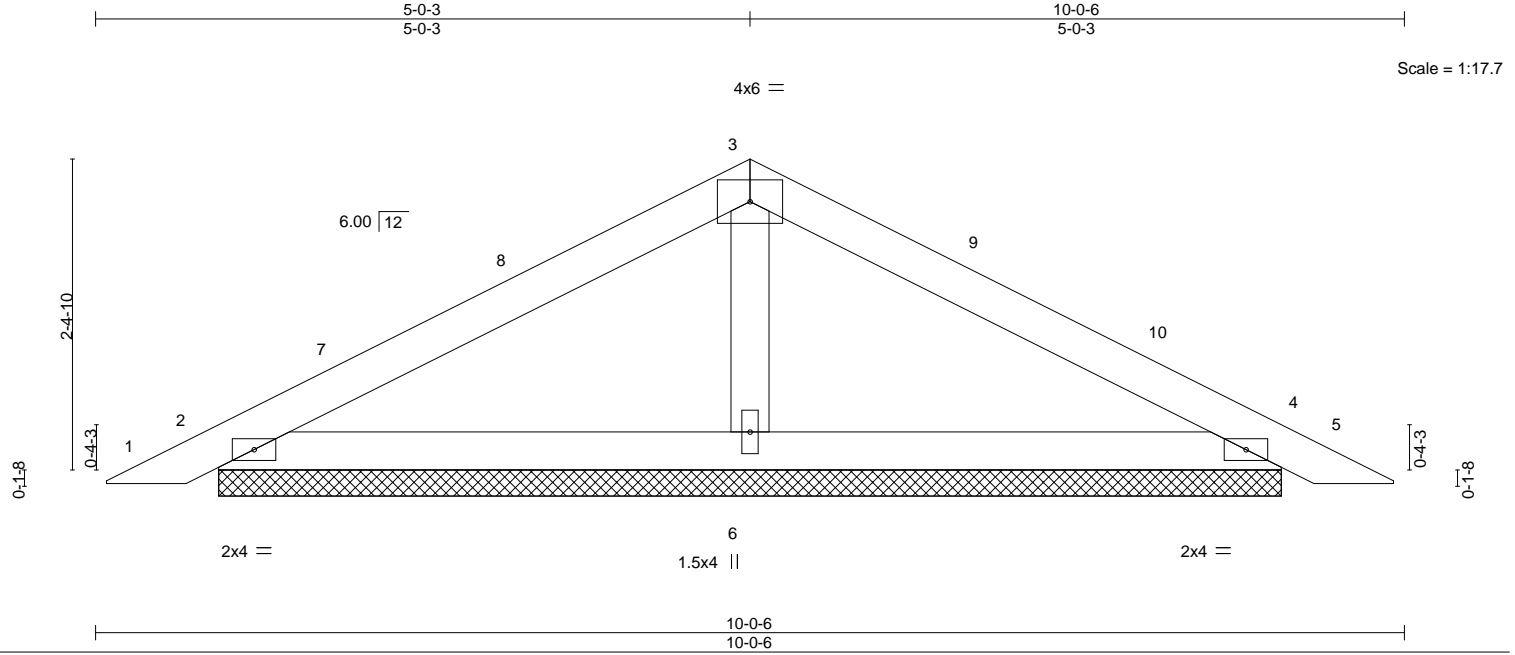
818 Soundside Road
 Edenton, NC 27932

| | | | | | | |
|--------------------|-------|------------|-----|-----|--------------------------|-----------|
| Job | Truss | Truss Type | Qty | Ply | 150.1910 C_10x10CP | 157773991 |
| 150_1910_C_10X10CP | PB1 | Piggyback | 8 | 1 | Job Reference (optional) | |

84 Components (Dunn, NC),

Dunn, NC - 28334,

8.630 s Nov 19 2022 MiTek Industries, Inc. Thu Apr 13 16:06:48 2023 Page 1
ID:VMD62rz1yiHD_OqRtbnrFztQ8K-pmkEnNwuq5b3YeW6KEWdxZ6i8JnZhfLvdJv0zR4aL



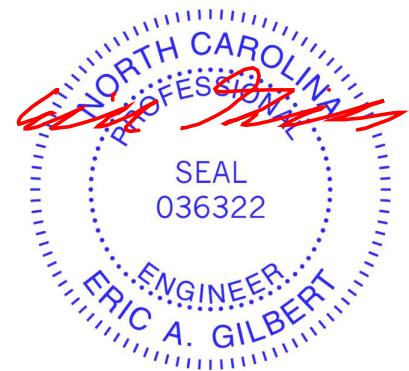
| LOADING (psf) | SPACING- | CSI. | DEFL. | PLATES | GRIP |
|------------------------|----------------------|----------|-------------------------|---------------|----------|
| TCLL (roof) 20.0 | 2-0-0 | TC 0.34 | in (loc) l/defl L/d | MT20 | 244/190 |
| Snow (Pf/Pg) 11.6/15.0 | Plate Grip DOL 1.15 | BC 0.17 | Vert(LL) 0.01 5 n/r 120 | | |
| TCDL 10.0 | Lumber DOL 1.15 | WB 0.05 | Vert(CT) 0.02 5 n/r 120 | | |
| BCLL 0.0 * | Rep Stress Incr YES | Matrix-P | Horz(CT) 0.00 4 n/a n/a | | |
| BCDL 10.0 | Code IRC2018/TPI2014 | | | Weight: 31 lb | FT = 20% |

| LUMBER- | BRACING- |
|-----------------------|---|
| TOP CHORD 2x4 SP No.2 | TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins. |
| BOT CHORD 2x4 SP No.2 | BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. |
| OTHERS 2x4 SP No.3 | |

REACTIONS. (size) 2=8-1-12, 4=8-1-12, 6=8-1-12
 Max Horz 2=-37(LC 21)
 Max Uplift 2=-46(LC 16), 4=-53(LC 17)
 Max Grav 2=202(LC 23), 4=202(LC 24), 6=317(LC 2)

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=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-4-11 to 3-4-11, Interior(1) 3-4-11 to 5-0-3, Exterior(2R) 5-0-3 to 8-0-3, Interior(1) 8-0-3 to 9-7-12 zone; 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); Pg=15.0 psf; Pf=11.6 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 1.00 times flat roof load of 11.6 psf on overhangs non-concurrent with other live loads.
 - 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 where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - N/A
 - 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.



April 14, 2023

| | | | | | | |
|--------------------|-------|------------|-----|-----|--------------------------|-----------|
| Job | Truss | Truss Type | Qty | Ply | 150.1910 C_10x10CP | 157773992 |
| 150_1910_C_10X10CP | PB2 | Piggyback | 2 | 1 | Job Reference (optional) | |

84 Components (Dunn, NC), Dunn, NC - 28334,

8.630 s Nov 19 2022 MiTek Industries, Inc. Thu Apr 13 16:06:50 2023 Page 1
ID:VMD62rz1yiHD_OqRtbnrIFztQ8K-9s?C3y9MisnyfVRfZ50_C5o6PH1b6eNxEq_vzR4aJ

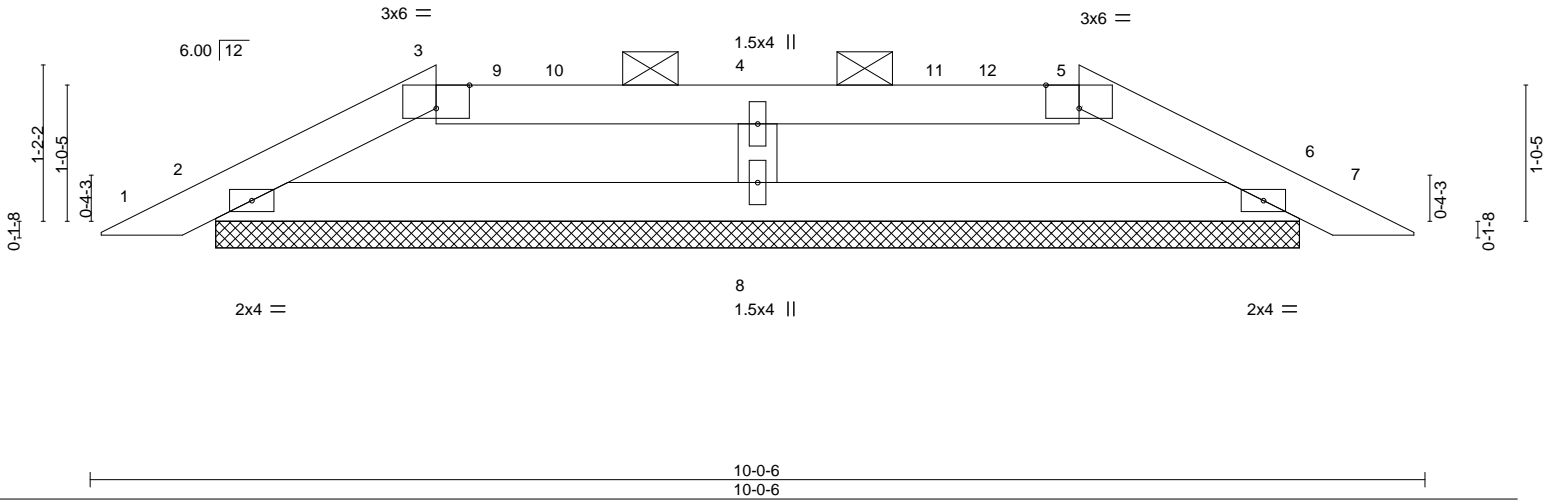
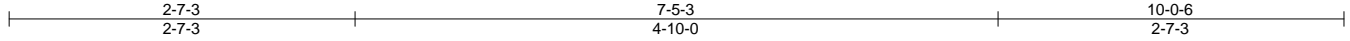


Plate Offsets (X,Y)-- [3:0-3-0,Edge], [5:0-3-0,Edge]

| LOADING (psf) | | SPACING- | | CSI. | | DEFL. | | | | PLATES | GRIP |
|---------------|-----------|-----------------|-----------------|----------|------|----------|-------|--------|-----|---------------|----------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 2-0-0 | TC | 0.14 | in | (loc) | l/defl | L/d | MT20 | 244/190 |
| Snow (Pf/Pg) | 16.5/15.0 | Lumber DOL | 1.15 | BC | 0.16 | Vert(LL) | 0.00 | 7 | n/r | | |
| TCDL | 10.0 | Rep Stress Incr | YES | WB | 0.05 | Vert(CT) | 0.00 | 7 | n/r | | |
| BCLL | 0.0 * | Code | IRC2018/TPI2014 | Matrix-S | | Horz(CT) | 0.00 | 6 | n/a | | |
| BCDL | 10.0 | | | | | | | | | Weight: 28 lb | FT = 20% |

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max.); 3-5.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 2=8-1-12, 6=8-1-12, 8=8-1-12
Max Horz 2=-16(LC 17)
Max Uplift 2=-34(LC 16), 6=-34(LC 17), 8=-23(LC 13)
Max Grav 2=215(LC 41), 6=215(LC 41), 8=342(LC 40)

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=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-4-11 to 2-7-3, Exterior(2R) 2-7-3 to 6-10-2, Interior(1) 6-10-2 to 7-5-3, Exterior(2E) 7-5-3 to 9-7-12 zone;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); Pg=15.0 psf; Pf=16.5 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, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
 - 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 1.00 times flat roof load of 11.6 psf on overhangs non-concurrent with other live loads.
 - Provide adequate drainage to prevent water ponding.
 - 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 where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - N/A
 - 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.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



April 14, 2023

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

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

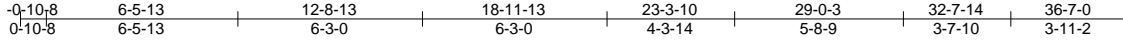


818 Soundside Road
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| | | | | | | |
|--------------------|-------|------------|-----|-----|--------------------|-----------|
| Job | Truss | Truss Type | Qty | Ply | 150.1910 C_10x10CP | 157773993 |
| 150_1910_C_10X10CP | T1 | ROOF TRUSS | 3 | 1 | | |

84 Components (Dunn, NC), Dunn, NC - 28334, 8.630 s Nov 19 2022 MiTek Industries, Inc. Thu Apr 13 16:06:52 2023 Page 1

ID:VMD62rz1yiHD_OqRtbnrIFztQ8K-hXzldlzPtK6V0FptZ4bZ5PHGyvXuVMhxqFjw2nzR4aH



5x6 = 7x12 M18AHS = Scale = 1:78.0

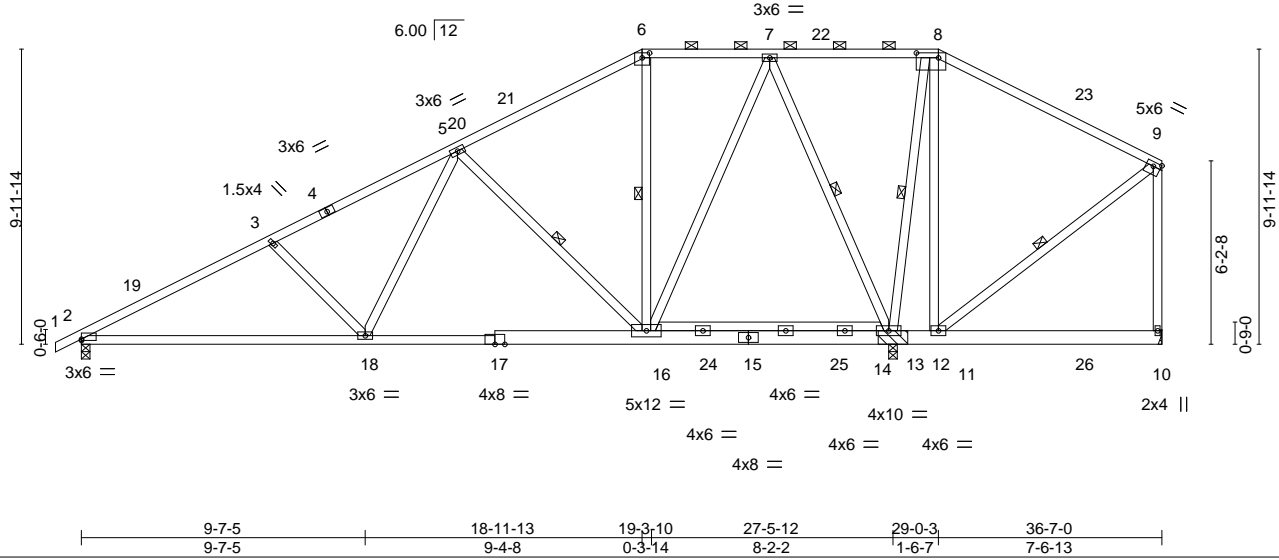


Plate Offsets (X,Y)-- [2:0-0-0,0-0-9], [6:0-3-0,0-2-0], [8:0-9-0,0-2-0], [9:Edge,0-1-12]

| LOADING (psf) | SPACING- | CSI. | DEFL. | PLATES | GRIP |
|------------------------|----------------------|----------|------------------------------|----------------|----------|
| TCLL (roof) 20.0 | Plate Grip DOL 1.15 | TC 0.80 | in (loc) l/defl L/d | MT20 | 244/190 |
| Snow (Pf/Pg) 16.5/15.0 | Lumber DOL 1.15 | BC 0.73 | Vert(LL) -0.19 2-18 >999 240 | M18AHS | 186/179 |
| TCDL 10.0 | Rep Stress Incr YES | WB 0.62 | Vert(CT) -0.41 2-18 >796 180 | | |
| BCLL 0.0 * | Code IRC2018/TPI2014 | Matrix-S | Horz(CT) 0.03 13 n/a n/a | | |
| BCDL 10.0 | | | | Weight: 272 lb | FT = 20% |

LUMBER-

TOP CHORD 2x4 SP No.2 *Except*
8-9: 2x4 SP No.1
BOT CHORD 2x6 SP No.2 *Except*
2-17: 2x4 SP No.1, 13-16: 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
3-18,9-10: 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-8-11 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 6-8.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 5-16, 6-16, 7-13, 8-13, 9-11

REACTIONS.

(size) 2=0-3-8, 13=0-3-8, 10=Mechanical
Max Horz 2=286(LC 16)
Max Uplift 2=-95(LC 16), 13=-224(LC 16), 10=-246(LC 57)
Max Grav 2=1048(LC 59), 13=2233(LC 3), 10=137(LC 46)

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

TOP CHORD 2-3=-1586/138, 3-5=-1375/115, 5-6=-503/78, 6-7=-378/96, 7-8=-37/439, 8-9=-89/429, 9-10=-80/318
BOT CHORD 2-18=-324/1357, 16-18=-173/922, 11-13=-291/100
WEBS 3-18=-333/202, 5-18=-27/611, 5-16=-774/237, 7-16=-129/993, 7-13=-1235/165, 8-13=-827/108, 8-11=0/357, 9-11=-386/131

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 18-11-13, Exterior(2R) 18-11-13 to 23-3-10, Interior(1) 23-3-10 to 29-0-3, Exterior(2R) 29-0-3 to 33-3-2, Interior(1) 33-3-2 to 36-5-4 zone; 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); Pg=15.0 psf; Pf=16.5 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, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 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 1.00 times flat roof load of 11.6 psf on overhangs non-concurrent with other live loads.
- Provide adequate drainage to prevent water ponding.
- 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 where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 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) 10=246.
- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 13. This connection is for uplift only and does not consider lateral forces.



April 14, 2023

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818 Soundside Road
Edenton, NC 27932

| | | | | | | |
|--------------------|-------|------------|-----|-----|--------------------------|-----------|
| Job | Truss | Truss Type | Qty | Ply | 150.1910 C_10x10CP | 157773993 |
| 150_1910_C_10X10CP | T1 | ROOF TRUSS | 3 | 1 | Job Reference (optional) | |

84 Components (Dunn, NC), Dunn, NC - 28334,

8.630 s Nov 19 2022 MiTek Industries, Inc. Thu Apr 13 16:06:52 2023 Page 2
 ID:VMD62rz1yihD_OqRtbnrIFztQ8K-hXzldlzPtK6V0FptZ4bZ5PHGyvXuVMhxqFjw2nzR4aH

NOTES-

- 13) 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.
- 14) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 15) ATTIC SPACE SHOWN IS DESIGNED AS UNINHABITABLE.

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

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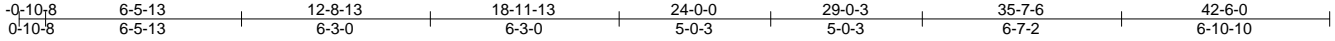


818 Soundside Road
 Edenton, NC 27932

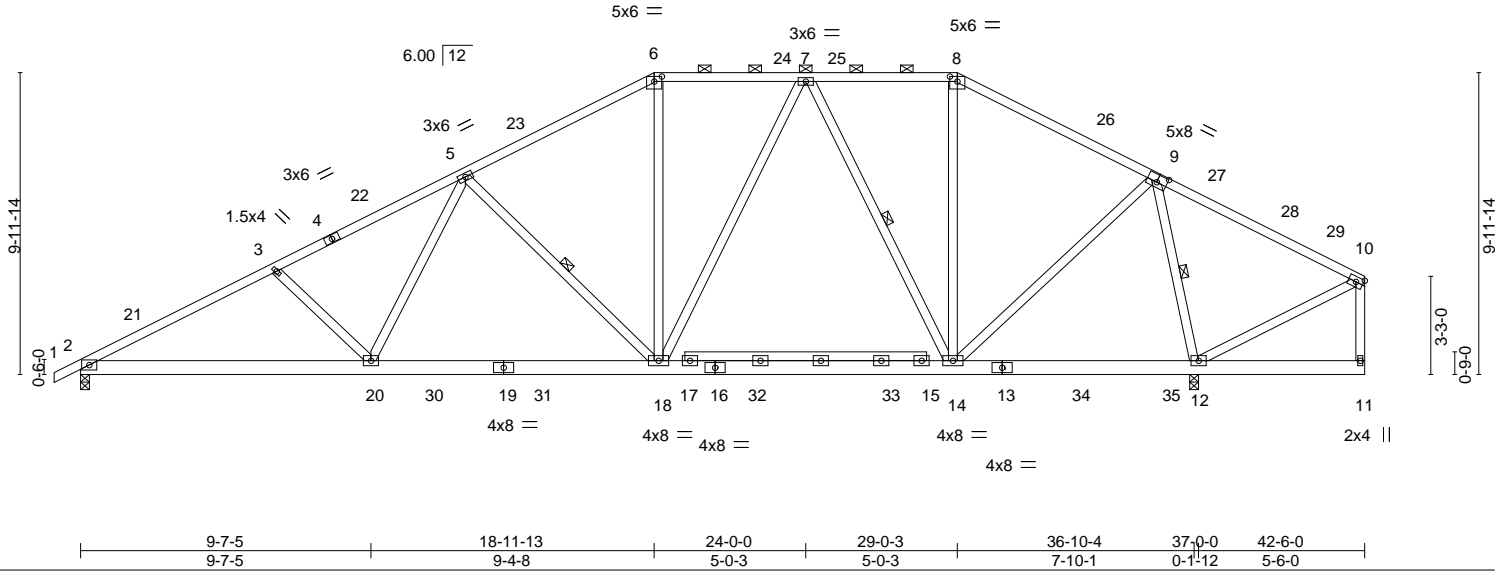
| | | | | | | |
|--------------------|-------|------------|-----|-----|--------------------|-----------|
| Job | Truss | Truss Type | Qty | Ply | 150.1910 C_10x10CP | 157773994 |
| 150_1910_C_10X10CP | T2A | ROOF TRUSS | 3 | 1 | | |

84 Components (Dunn, NC), Dunn, NC - 28334, 8.630 s Nov 19 2022 MiTek Industries, Inc. Thu Apr 13 16:06:54 2023 Page 1

ID:VMD62rz1yIHd_OqRtbnrlFztQ8K-ew5W2R?fPxMDGZzGgVd1AqMcRjdBzJaEHZC17gzR4aF



Scale = 1:76.3



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

| LOADING (psf) | SPACING- | CSI. | DEFL. | PLATES | GRIP |
|------------------------|----------------------|----------|-------------------------------|----------------|----------|
| TCLL (roof) 20.0 | 2-0-0 | TC 0.80 | in (loc) l/defl L/d | MT20 | 244/190 |
| Snow (Pf/Pg) 16.5/15.0 | Plate Grip DOL 1.15 | BC 0.74 | Vert(LL) -0.15 18-20 >999 240 | | |
| TCDL 10.0 | Lumber DOL 1.15 | WB 0.40 | Vert(CT) -0.27 18-20 >999 180 | | |
| BCLL 0.0 * | Rep Stress Incr YES | Matrix-S | Horz(CT) 0.06 12 n/a n/a | | |
| BCDL 10.0 | Code IRC2018/TPI2014 | | | Weight: 305 lb | FT = 20% |

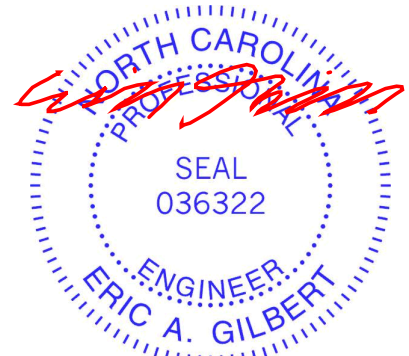
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP No.2 *Except*
15-17: 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
3-20,10-11,10-12: 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-10-11 oc purlins, except end verticals, and 2-0-0 oc purlins (4-6-6 max.): 6-8.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 5-18, 7-14, 9-12

REACTIONS. (size) 2=0-3-8, 12=0-3-8
Max Horz 2=224(LC 16)
Max Uplift 2=163(LC 16), 12=112(LC 17)
Max Grav 2=1645(LC 3), 12=2173(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2901/281, 3-5=-2684/257, 5-6=-1813/237, 6-7=-1559/243, 7-8=-1017/207, 8-9=-1219/192, 9-10=-26/305
BOT CHORD 2-20=-387/2506, 18-20=-240/2061, 14-18=-79/1354
WEBS 3-20=-305/195, 5-20=-24/639, 5-18=-783/233, 6-18=0/518, 7-18=-69/570, 7-14=-770/117, 8-14=-3/315, 9-14=-9/1151, 9-12=-1795/226

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 18-11-13, Exterior(2R) 18-11-13 to 23-2-11, Interior(1) 23-2-11 to 29-0-3, Exterior(2R) 29-0-3 to 33-3-2, Interior(1) 33-3-2 to 42-4-4 zone; 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); Pg=15.0 psf; Pf=16.5 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, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
 - 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 1.00 times flat roof load of 11.6 psf on overhangs non-concurrent with other live loads.
 - Provide adequate drainage to prevent water ponding.
 - All plates are 4x6 MT20 unless otherwise indicated.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 12. This connection is for uplift only and does not consider lateral forces.
 - 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.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - ATTIC SPACE SHOWN IS DESIGNED AS UNINHABITABLE.



April 14, 2023

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

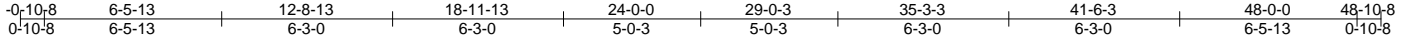


818 Soundside Road
Edenton, NC 27932

| | | | | | | |
|--------------------|-------|------------|-----|-----|--------------------|-----------|
| Job | Truss | Truss Type | Qty | Ply | 150.1910 C_10x10CP | 157773995 |
| 150_1910_C_10X10CP | T3A | ROOF TRUSS | 2 | 1 | | |

84 Components (Dunn, NC), Dunn, NC - 28334, 8.630 s Nov 19 2022 MiTek Industries, Inc. Thu Apr 13 16:06:57 2023 Page 1

ID:VMD62rz1yHD_OqRtbnrlFzQ8K-2VnegS1Yisko71irMdBkoS_8twd?Aabg_WRhk?zR4aC



Scale = 1:84.2

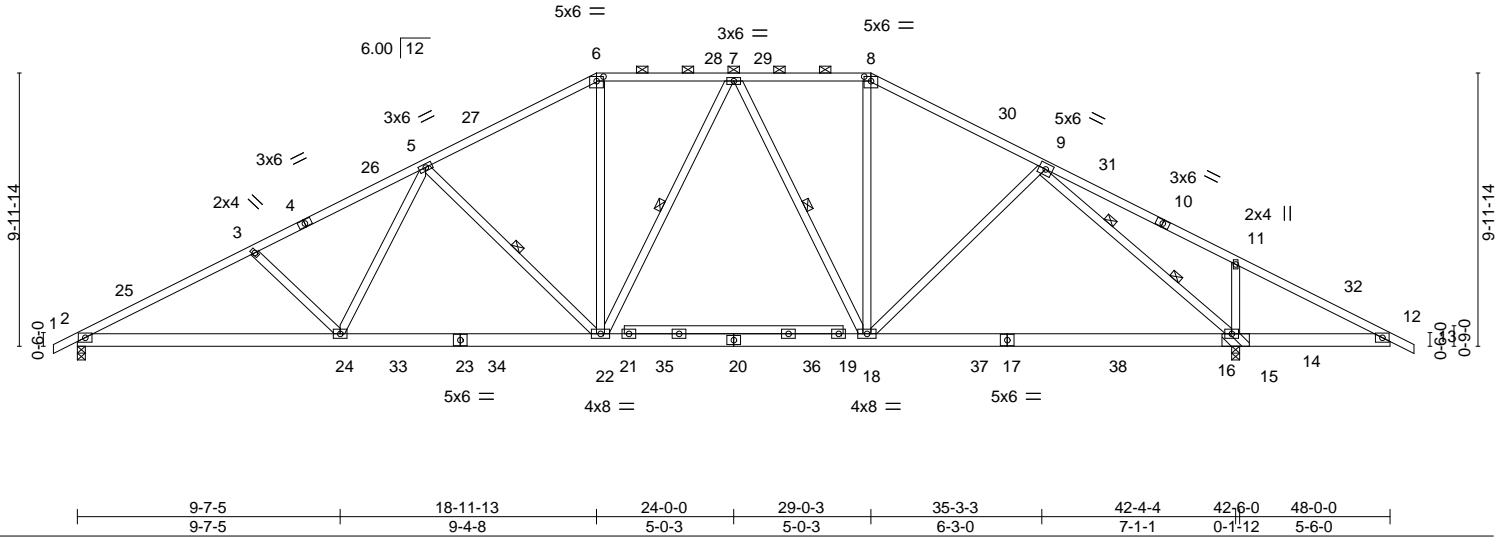


Plate Offsets (X,Y)-- [6:0-3-0,0-2-0], [8:0-3-0,0-2-0]

| LOADING (psf) | SPACING- | CSI. | DEFL. | PLATES | GRIP |
|------------------------|----------------------|----------|-------------------------------|----------------|----------|
| TCLL (roof) 20.0 | 2-0-0 | TC 0.73 | in (loc) l/defl L/d | MT20 | 244/190 |
| Snow (Pf/Pg) 16.5/15.0 | Plate Grip DOL 1.15 | BC 0.86 | Vert(LL) -0.29 15-18 >999 240 | | |
| TCDL 10.0 | Lumber DOL 1.15 | WB 0.77 | Vert(CT) -0.49 15-18 >999 180 | | |
| BCLL 0.0 * | Rep Stress Incr YES | Matrix-S | Horz(CT) 0.09 15 n/a n/a | | |
| BCDL 10.0 | Code IRC2018/TPI2014 | | | Weight: 326 lb | FT = 20% |

| LUMBER- | BRACING- |
|--|---|
| TOP CHORD 2x4 SP No.2 | TOP CHORD Structural wood sheathing directly applied or 2-6-3 oc purlins, except 2-0-0 oc purlins (3-11-2 max.): 6-8. |
| BOT CHORD 2x6 SP No.2 *Except* 19-21: 2x4 SP No.2 | BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 12-15. |
| WEBS 2x4 SP No.2 *Except* 3-24,11-15: 2x4 SP No.3 | WEBS 1 Row at midpt 5-22, 7-22, 7-18 2 Rows at 1/3 pts 9-15 |

REACTIONS. (size) 2=0-3-8, 15=(0-3-8 + bearing block) (req. 0-3-14)
Max Horz 2=157(LC 20)
Max Uplift 2=-169(LC 16), 15=-190(LC 17)
Max Grav 2=1892(LC 3), 15=2481(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-3427/293, 3-5=-3214/269, 5-6=-2348/281, 6-7=-2041/278, 7-8=-1787/254,
8-9=-2068/245, 9-11=-78/493, 11-12=-183/490
BOT CHORD 2-24=-331/2971, 22-24=-185/2538, 18-22=-22/1979, 15-18=-39/1520, 12-15=-357/212
WEBS 3-24=-295/195, 5-24=-22/636, 5-22=-781/232, 6-22=-17/756, 8-18=-8/644, 9-18=0/473,
11-15=-408/226, 7-22=-101/281, 7-18=-532/135, 9-15=-2438/272

NOTES-

- 2x6 SP No.2 bearing block 12" long at jt. 15 attached to front face with 3 rows of 10d (0.131"x3") nails spaced 3" o.c. 12 Total fasteners. User Defined Bearing crushing capacity= 425psi.
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 18-11-13, Exterior(2R) 18-11-13 to 23-2-11, Interior(1) 23-2-11 to 29-0-3, Exterior(2R) 29-0-3 to 33-3-2, Interior(1) 33-3-2 to 48-10-8 zone;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); Pg=15.0 psf; Pf=16.5 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, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 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 1.00 times flat roof load of 11.6 psf on overhangs non-concurrent with other live loads.
- Provide adequate drainage to prevent water ponding.
- All plates are 4x6 MT20 unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 15. This connection is for uplift only and does not consider lateral forces.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and

Continued on page 2 per standard ANSI/TPI 1.



April 14, 2023

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

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



818 Soundside Road
Edenton, NC 27932

| | | | | | | |
|--------------------|-------|------------|-----|-----|--------------------------|-----------|
| Job | Truss | Truss Type | Qty | Ply | 150.1910 C_10x10CP | 157773995 |
| 150_1910_C_10X10CP | T3A | ROOF TRUSS | 2 | 1 | Job Reference (optional) | |

84 Components (Dunn, NC), Dunn, NC - 28334,

8.630 s Nov 19 2022 MiTek Industries, Inc. Thu Apr 13 16:06:57 2023 Page 2
 ID:VMD62rz1yHD_OqRtbnrlFztQ8K-2VnegS1Yisko71irMdBkoS_8twd?Aabg_WRhk?zR4aC

NOTES-

- 13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 14) ATTIC SPACE SHOWN IS DESIGNED AS UNINHABITABLE.

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



818 Soundside Road
 Edenton, NC 27932

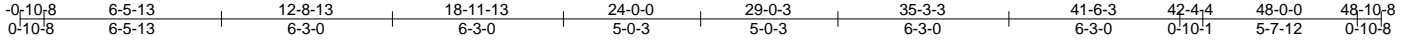
| | | | | | | |
|--------------------|-------|------------|-----|-----|--------------------|-----------|
| Job | Truss | Truss Type | Qty | Ply | 150.1910 C_10x10CP | 157773996 |
| 150_1910_C_10X10CP | T4 | ROOF TRUSS | 2 | 1 | | |

84 Components (Dunn, NC),

Dunn, NC - 28334,

8.630 s Nov 19 2022 MiTek Industries, Inc. Thu Apr 13 16:06:59 2023 Page 1

ID:VMD62rz1yiHD_OqRtbnrIFztQ8K_uuP583oET_VMKrDT2DCtt3UNkIPeU5zRqwootzR4aA



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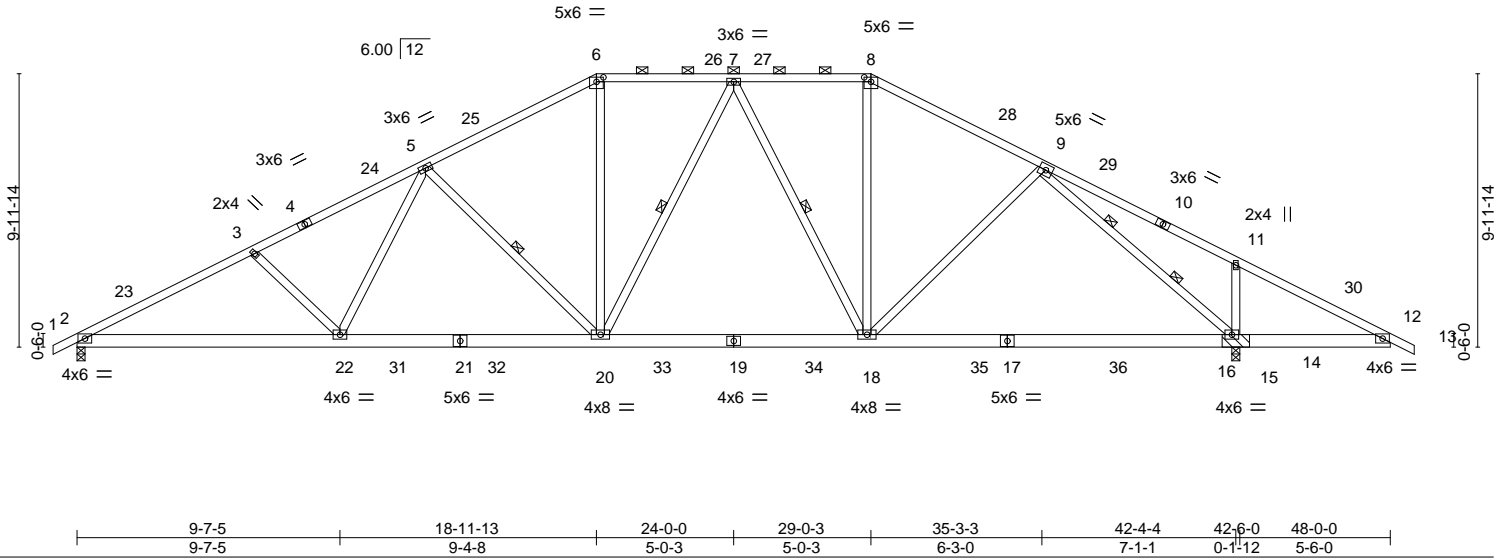


Plate Offsets (X,Y)-- [6:0-3-0,0-2-0], [8:0-3-0,0-2-0]

| LOADING (psf) | SPACING- | CSI. | DEFL. | PLATES | GRIP |
|------------------------|----------------------|----------|-------------------------------|----------------|----------|
| TCLL (roof) 20.0 | Plate Grip DOL 1.15 | TC 0.73 | in (loc) l/defl L/d | MT20 | 244/190 |
| Snow (Pf/Pg) 16.5/15.0 | Lumber DOL 1.15 | BC 0.87 | Vert(LL) -0.30 15-18 >999 240 | | |
| TCDL 10.0 | Rep Stress Incr YES | WB 0.77 | Vert(CT) -0.50 15-18 >999 180 | | |
| BCLL 0.0 * | Code IRC2018/TPI2014 | Matrix-S | Horz(CT) 0.10 15 n/a n/a | | |
| BCDL 10.0 | | | | Weight: 314 lb | FT = 20% |

| LUMBER- | BRACING- |
|---|---|
| TOP CHORD 2x4 SP No.2 | TOP CHORD Structural wood sheathing directly applied or 2-6-2 oc purlins, except 2-0-0 oc purlins (3-11-0 max.): 6-8. |
| BOT CHORD 2x6 SP No.2 | BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 12-15. |
| WEBS 2x4 SP No.2 *Except* 3-22,11-15: 2x4 SP No.3 | WEBS 1 Row at midpt 5-20, 7-20, 7-18 2 Rows at 1/3 pts 9-15 |

REACTIONS. (size) 2=0-3-8, 15=(0-3-8 + bearing block) (req. 0-3-14)
Max Horz 2=157(LC 16)
Max Uplift 2=-169(LC 16), 15=-190(LC 17)
Max Grav 2=1893(LC 3), 15=2483(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-3428/293, 3-5=-3215/269, 5-6=-2353/281, 6-7=-2046/278, 7-8=-1788/255, 8-9=-2069/246, 9-11=-79/493, 11-12=-184/490
BOT CHORD 2-22=-331/2972, 20-22=-185/2541, 18-20=-22/1982, 15-18=-39/1520, 12-15=-356/213
WEBS 3-22=-295/195, 5-22=-22/631, 5-20=-778/232, 6-20=-17/758, 7-20=-99/286, 7-18=-534/134, 8-18=-9/644, 9-18=0/473, 9-15=-2438/274, 11-15=-408/226

- NOTES-**
- 2x6 SP No.2 bearing block 12" long at jt. 15 attached to front face with 3 rows of 10d (0.131"x3") nails spaced 3" o.c. 12 Total fasteners. User Defined Bearing crushing capacity= 425psi.
 - Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 18-11-13, Exterior(2R) 18-11-13 to 23-2-11, Interior(1) 23-2-11 to 29-0-3, Exterior(2R) 29-0-3 to 33-3-2, Interior(1) 33-3-2 to 48-10-8 zone;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); Pg=15.0 psf; Pf=16.5 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, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
 - 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 1.00 times flat roof load of 11.6 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 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 15. This connection is for uplift only and does not consider lateral forces.
 - 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.



April 14, 2023

Confirmation of packaging representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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



818 Soundside Road
Edenton, NC 27932

| | | | | | | |
|--------------------|-------|------------|-----|-----|--------------------------|-----------|
| Job | Truss | Truss Type | Qty | Ply | 150.1910 C_10x10CP | 157773996 |
| 150_1910_C_10X10CP | T4 | ROOF TRUSS | 2 | 1 | Job Reference (optional) | |

84 Components (Dunn, NC), Dunn, NC - 28334,

8.630 s Nov 19 2022 MiTek Industries, Inc. Thu Apr 13 16:07:00 2023 Page 2
 ID:VMD62rz1yiHD_OqRtbnrIFztQ8K-S4SnJU4Q?n6M_UQQ1mkRQ5cf78eeNxL6gUfLKKzR4a9

NOTES-

13) ATTIC SPACE SHOWN IS DESIGNED AS UNINHABITABLE.

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

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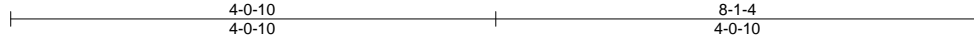
818 Soundside Road
 Edenton, NC 27932

| | | | | | | |
|--------------------|-------|------------|-----|-----|--------------------------|-----------|
| Job | Truss | Truss Type | Qty | Ply | 150.1910 C_10x10CP | 157773997 |
| 150_1910_C_10X10CP | V1A | Valley | 1 | 1 | Job Reference (optional) | |

84 Components (Dunn, NC),

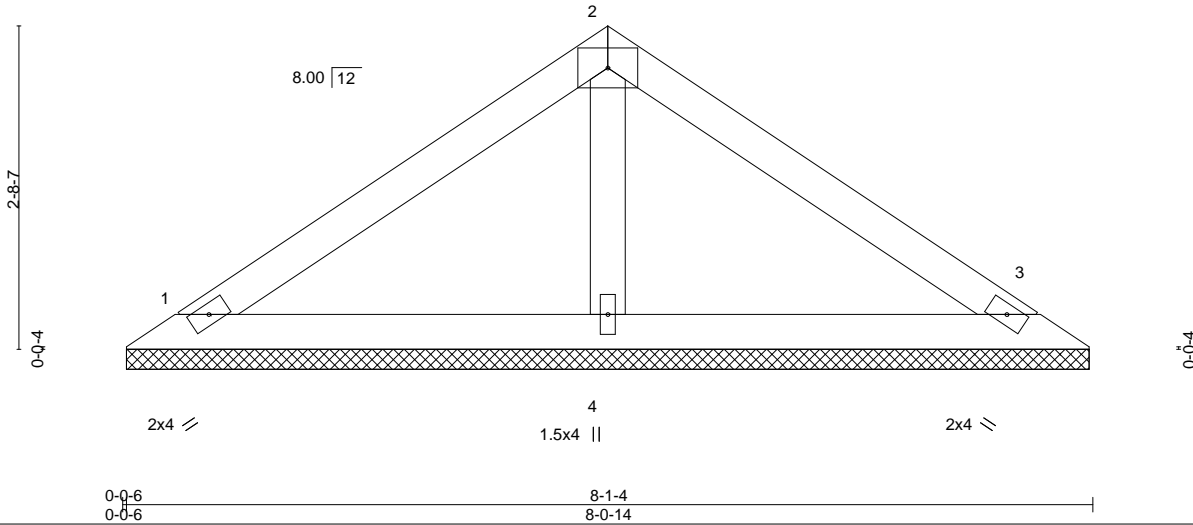
Dunn, NC - 28334,

8.630 s Nov 19 2022 MiTek Industries, Inc. Thu Apr 13 16:07:01 2023 Page 1
ID:VMD62rz1yiHD_OqRtbnrlFztQ8K-wG09Wq42m5EDbe?cbTFgyI9yTY9P6Z_Fu8PvtmzR4a8



4x6 =

Scale = 1:19.2



| LOADING (psf) | SPACING- | CSI. | DEFL. | PLATES | GRIP |
|------------------------|----------------------|----------|-------------------------|---------------|----------|
| TCLL (roof) 20.0 | 2'-0" | TC 0.24 | in (loc) l/defl L/d | MT20 | 244/190 |
| Snow (Pf/Pg) 11.6/15.0 | Plate Grip DOL 1.15 | BC 0.13 | 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 IRC2018/TPI2014 | | | Weight: 28 lb | FT = 20% |

LUMBER-

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

BRACING-

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

REACTIONS.

(size) 1=8'-0"-8, 3=8'-0"-8, 4=8'-0"-8
Max Horz 1=56(LC 10)
Max Uplift 1=30(LC 14), 3=38(LC 15)
Max Grav 1=154(LC 2), 3=154(LC 2), 4=263(LC 2)

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=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-5-12 to 3-5-12, Interior(1) 3-5-12 to 4-0-10, Exterior(2R) 4-0-10 to 7-0-10, Interior(1) 7-0-10 to 7-7-7 zone; 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); Pg=15.0 psf; Pf=11.6 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
- 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 where a rectangle 3'-6" tall by 2'-0" wide will fit between the bottom chord and any other members.
- N/A
- 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.



April 14, 2023

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818 Soundside Road
Edenton, NC 27932

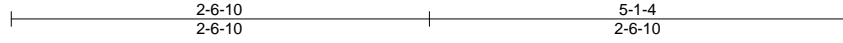
| | | | | | | |
|--------------------|-------|------------|-----|-----|--------------------------|-----------|
| Job | Truss | Truss Type | Qty | Ply | 150.1910 C_10x10CP | 157773998 |
| 150.1910_C_10X10CP | V1B | Valley | 1 | 1 | Job Reference (optional) | |

84 Components (Dunn, NC),

Dunn, NC - 28334,

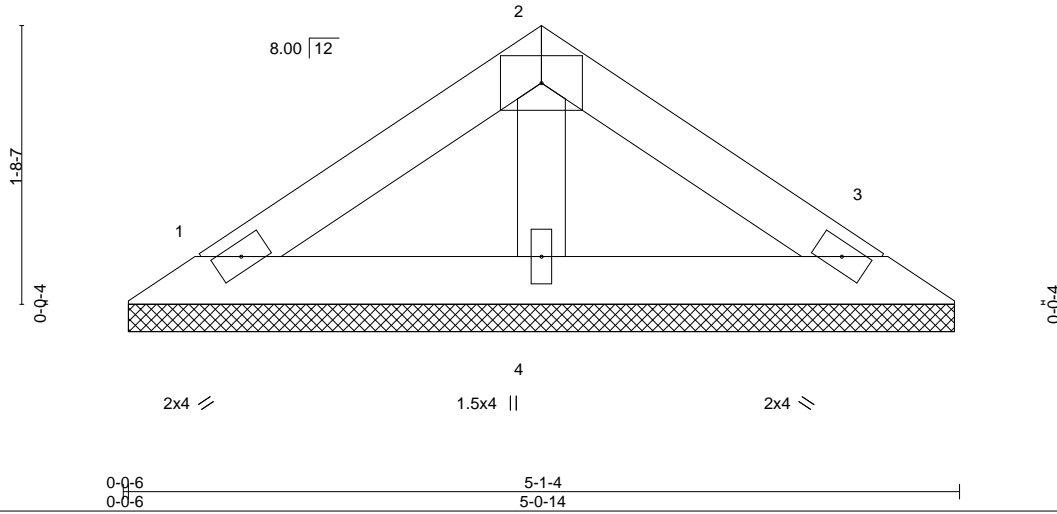
8.630 s Nov 19 2022 MiTek Industries, Inc. Thu Apr 13 16:07:02 2023 Page 1

ID:VMD62rz1yiHD_OqRtbnrIFztQ8K-PSaXjA5gXOM4Doac8BnvVWh9qxX_r0VP7o8SPCzR4a7



4x6 =

Scale = 1:14.1



| LOADING (psf) | SPACING- | CSI. | DEFL. | PLATES | GRIP |
|------------------------|----------------------|----------|-------------------------|---------------|----------|
| TCLL (roof) 20.0 | 2-0-0 | TC 0.07 | in (loc) l/defl L/d | MT20 | 244/190 |
| Snow (Pf/Pg) 11.6/15.0 | Plate Grip DOL 1.15 | BC 0.04 | Vert(LL) n/a - n/a 999 | | |
| TCDL 10.0 | Lumber DOL 1.15 | WB 0.02 | 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 IRC2018/TPI2014 | | | Weight: 17 lb | FT = 20% |

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-1-4 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 1=5-0-8, 3=5-0-8, 4=5-0-8
 Max Horz 1=-32(LC 10)
 Max Uplift 1=-18(LC 14), 3=-22(LC 15)
 Max Grav 1=89(LC 2), 3=89(LC 2), 4=152(LC 2)

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=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; 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); Pg=15.0 psf; Pf=11.6 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
- 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 where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- N/A
- 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.



April 14, 2023

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

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

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

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



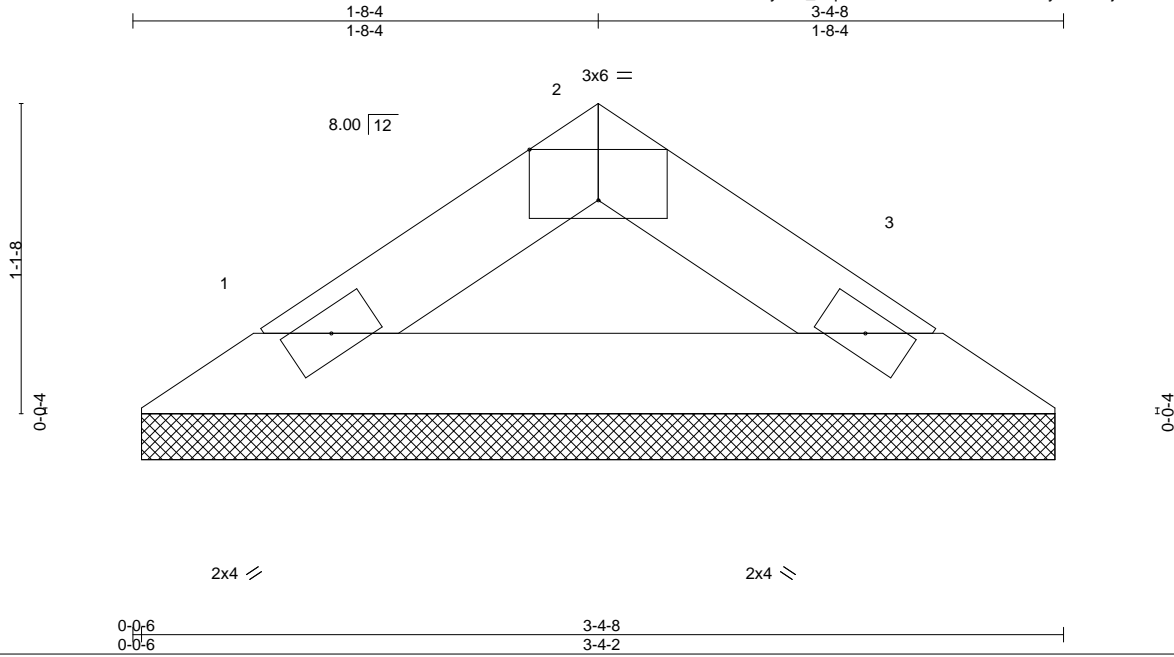
818 Soundside Road
 Edenton, NC 27932

| | | | | | | |
|--------------------|-------|------------|-----|-----|--------------------|-----------|
| Job | Truss | Truss Type | Qty | Ply | 150.1910 C_10x10CP | 157773999 |
| 150_1910_C_10X10CP | V2A | Valley | 1 | 1 | | |

84 Components (Dunn, NC),

Dunn, NC - 28334,

8.630 s Nov 19 2022 MiTek Industries, Inc. Thu Apr 13 16:07:03 2023 Page 1
ID:VMD62rz1yiHD_OqRtbnrlFztQ8K-tf8vxW6JliUxry9?iul82jELJLsraT3YMSu0xfzR4a6



Scale = 1:8.4

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

| LOADING (psf) | SPACING- | CSI. | DEFL. | in (loc) | l/defl | L/d | PLATES | GRIP |
|------------------------|----------------------|----------|----------|----------|--------|-----|--------------|----------|
| TCLL (roof) 20.0 | 2-0-0 | TC 0.03 | Vert(LL) | n/a | - | n/a | MT20 | 244/190 |
| Snow (Pf/Pg) 11.6/15.0 | Plate Grip DOL 1.15 | BC 0.07 | Vert(CT) | n/a | - | n/a | | |
| TCDL 10.0 | Lumber DOL 1.15 | WB 0.00 | Horz(CT) | 0.00 | 3 | n/a | | |
| BCLL 0.0 * | Rep Stress Incr YES | Matrix-P | | | | | Weight: 9 lb | FT = 20% |
| BCDL 10.0 | Code IRC2018/TPI2014 | | | | | | | |

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-4-8 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

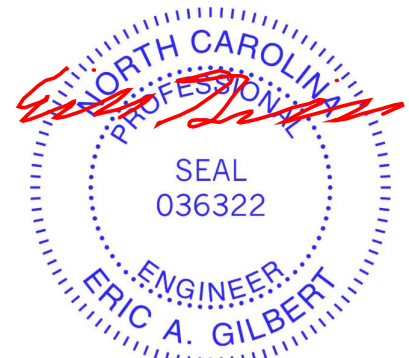
REACTIONS.

(size) 1=3-3-12, 3=3-3-12
Max Horz 1=19(LC 10)
Max Uplift 1=8(LC 14), 3=8(LC 15)
Max Grav 1=96(LC 2), 3=96(LC 2)

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=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone;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); Pg=15.0 psf; Pf=11.6 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
- 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 where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- N/A
- 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.



April 14, 2023

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

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

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

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



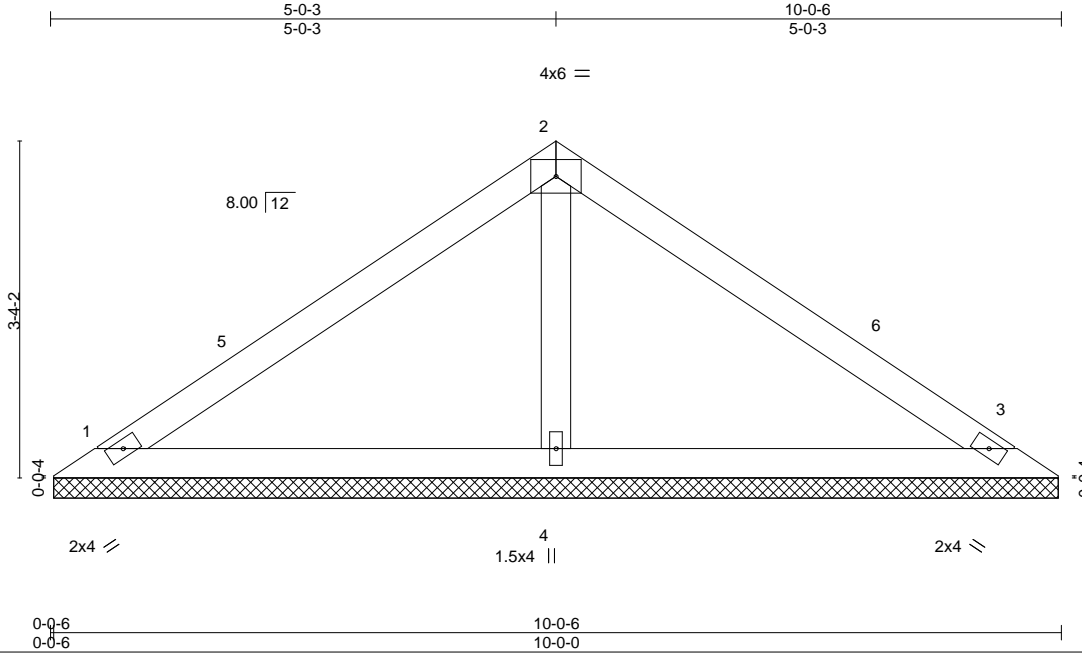
818 Soundside Road
Edenton, NC 27932

| | | | | | | |
|--------------------|-------|------------|-----|-----|--------------------------|-----------|
| Job | Truss | Truss Type | Qty | Ply | 150.1910 C_10x10CP | 157774000 |
| 150_1910_C_10X10CP | V3A | Valley | 1 | 1 | Job Reference (optional) | |

84 Components (Dunn, NC),

Dunn, NC - 28334,

8.630 s Nov 19 2022 MiTek Industries, Inc. Thu Apr 13 16:07:04 2023 Page 1
ID:VMD62rz1yiHD_OqRtbnrIFztQ8K-Lril8r7x30coT5kBGbpNaxnSxlAvJwPib6dZT5zR4a5



Scale = 1:22.9

| 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/Pg) 11.6/15.0 | Plate Grip DOL 1.15 | BC 0.21 | Vert(LL) n/a - n/a 999 | | |
| TCDL 10.0 | Lumber DOL 1.15 | WB 0.06 | Vert(CT) n/a - n/a 999 | | |
| BCLL 0.0 * | Rep Stress Incr YES | Matrix-S | Horz(CT) 0.00 3 n/a n/a | | |
| BCDL 10.0 | Code IRC2018/TPI2014 | | | Weight: 35 lb | FT = 20% |

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

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

REACTIONS. (size) 1=9-11-10, 3=9-11-10, 4=9-11-10
Max Horz 1=71(LC 11)
Max Uplift 1=-29(LC 14), 3=-38(LC 15), 4=-5(LC 14)
Max Grav 1=179(LC 2), 3=179(LC 2), 4=368(LC 2)

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=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-5-12 to 3-5-12, Interior(1) 3-5-12 to 5-0-3, Exterior(2R) 5-0-3 to 8-0-3, Interior(1) 8-0-3 to 9-6-10 zone; 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); Pg=15.0 psf; Pf=11.6 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
 - 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 where a rectangle 3-6-0 tall by 2-0-0 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) 4.
 - N/A
 - 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.



April 14, 2023

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Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



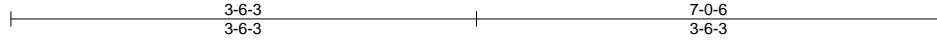
818 Soundside Road
Edenton, NC 27932

| | | | | | | |
|--------------------|-------|------------|-----|-----|--------------------|-----------|
| Job | Truss | Truss Type | Qty | Ply | 150.1910 C_10x10CP | 157774001 |
| 150_1910_C_10X10CP | V3B | Valley | 1 | 1 | | |

84 Components (Dunn, NC),

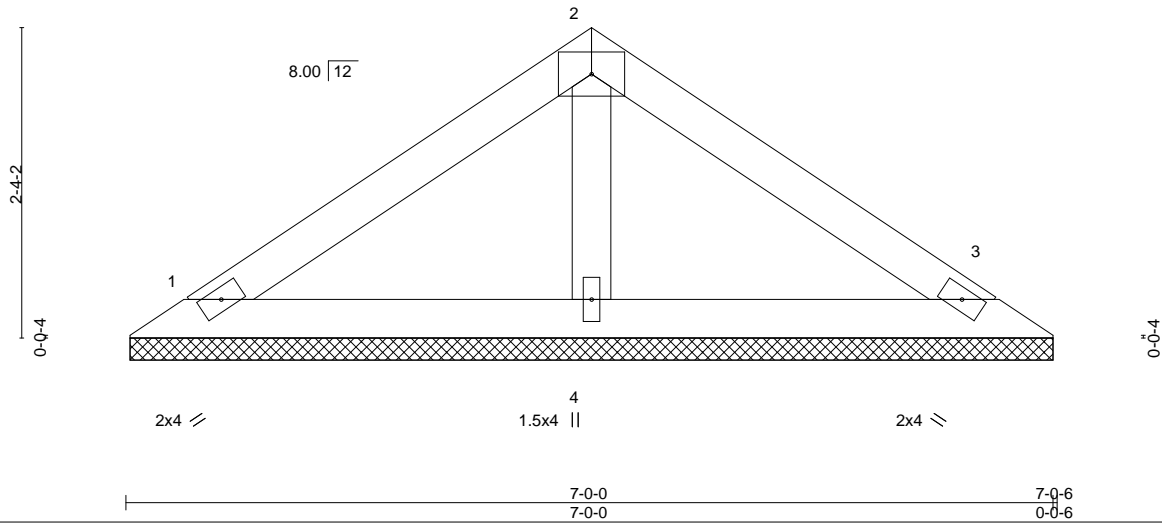
Dunn, NC - 28334,

8.630 s Nov 19 2022 MiTek Industries, Inc. Thu Apr 13 16:07:05 2023 Page 1
ID:VMD62rz1yiHD_OqRtbnrlFztQ8K-p1GgMB8ZqJlf4FJNqJKc78Jfa9Xv2N5rpmN60XzR4a4



4x6 =

Scale = 1:17.4



| LOADING (psf) | SPACING- | CSI. | DEFL. | PLATES | GRIP |
|------------------------|----------------------|----------|-------------------------|---------------|----------|
| TCLL (roof) 20.0 | 2-0-0 | TC 0.17 | in (loc) l/defl L/d | MT20 | 244/190 |
| Snow (Pf/Pg) 11.6/15.0 | Plate Grip DOL 1.15 | BC 0.09 | 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 IRC2018/TPI2014 | | | Weight: 24 lb | FT = 20% |

LUMBER-

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

BRACING-

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

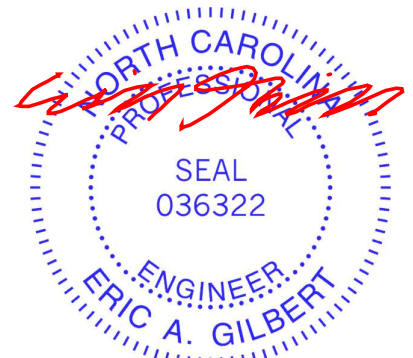
REACTIONS.

(size) 1=6-11-10, 3=6-11-10, 4=6-11-10
Max Horz 1=47(LC 13)
Max Uplift 1=-26(LC 14), 3=-32(LC 15)
Max Grav 1=131(LC 2), 3=131(LC 2), 4=223(LC 2)

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=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; 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); Pg=15.0 psf; Pf=11.6 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
- 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 where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- N/A
- 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.



April 14, 2023

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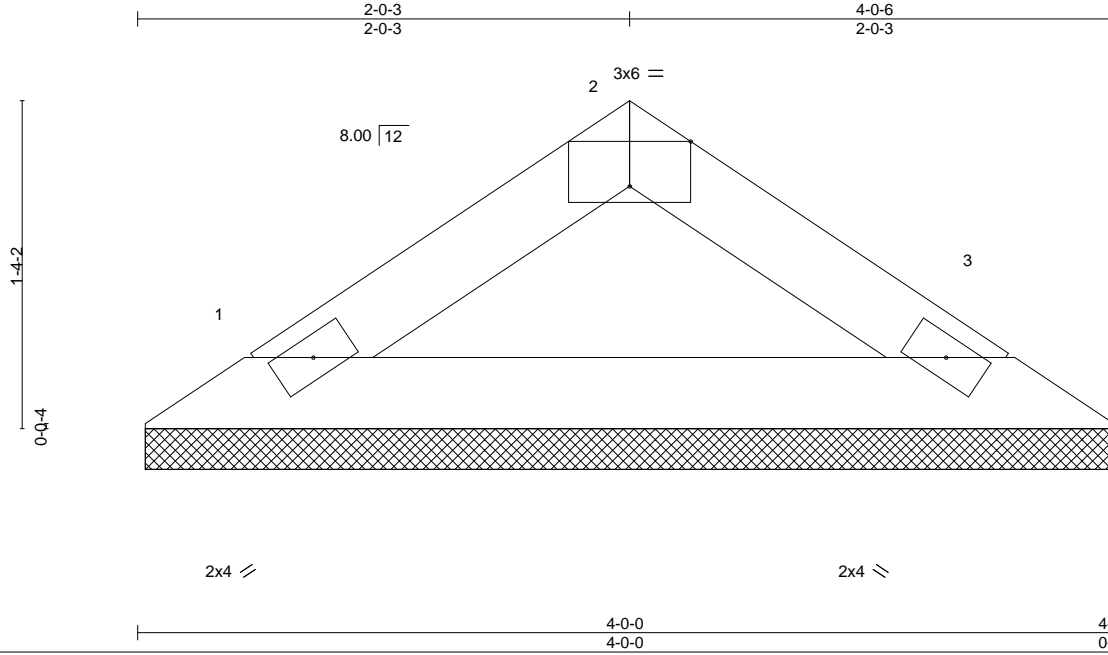
818 Soundside Road
Edenton, NC 27932

| | | | | | | |
|--------------------|-------|------------|-----|-----|--------------------|-----------|
| Job | Truss | Truss Type | Qty | Ply | 150.1910 C_10x10CP | 157774002 |
| 150_1910_C_10X10CP | V3C | Valley | 1 | 1 | | |

84 Components (Dunn, NC),

Dunn, NC - 28334,

8.630 s Nov 19 2022 MiTek Industries, Inc. Thu Apr 13 16:07:06 2023 Page 1
 ID:VMD62rz1yiHD_OqRtbnrlFztQ8K-HEq2ZX8BadtWiPuaN0rrfMsslZtrnqp?2QG6Y_zR4a3



Scale = 1:9.4

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

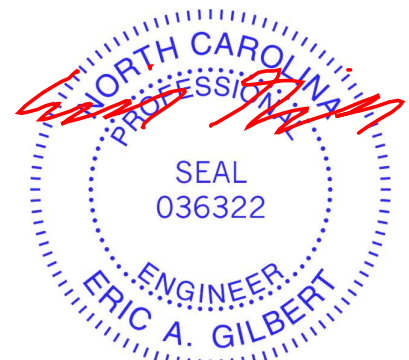
| LOADING (psf) | SPACING- | CSI. | DEFL. | PLATES | GRIP |
|------------------------|----------------------|----------|-------------------------|---------------|----------|
| TCLL (roof) 20.0 | 2-0-0 | TC 0.04 | in (loc) l/defl L/d | MT20 | 244/190 |
| Snow (Pf/Pg) 11.6/15.0 | Plate Grip DOL 1.15 | BC 0.11 | Vert(LL) n/a - n/a 999 | | |
| TCDL 10.0 | Lumber DOL 1.15 | WB 0.00 | 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 IRC2018/TPI2014 | | | Weight: 11 lb | FT = 20% |

| LUMBER- | BRACING- |
|-----------------------|---|
| TOP CHORD 2x4 SP No.2 | TOP CHORD Structural wood sheathing directly applied or 4-0-6 oc purlins. |
| BOT CHORD 2x4 SP No.2 | BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. |

REACTIONS. (size) 1=3-11-10, 3=3-11-10
 Max Horz 1=24(LC 11)
 Max Uplift 1=11(LC 14), 3=-11(LC 15)
 Max Grav 1=123(LC 2), 3=123(LC 2)

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=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone;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); Pg=15.0 psf; Pf=11.6 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
 - 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 where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - N/A
 - 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.



April 14, 2023

Symbols

PLATE LOCATION AND ORIENTATION



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



For 4 x 2 orientation, locate plates 0- 1/16" from outside edge of truss.



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

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

PLATE SIZE

4 X 4

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

LATERAL BRACING LOCATION



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

BEARING



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

Industry Standards:

ANSI/TFP 1: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-89: Design Standard for Bracing, Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

Numbering System

6-4-8
dimensions shown in ft-in-sixteenths
(Drawings not to scale)



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

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

PRODUCT CODE APPROVALS

ICC-ES Reports:

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

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

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

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MITek Engineering Reference Sheet: MII-7473 rev. 5/19/2020



General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

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