

RE: Callaway Rev 98-Elev 1-Roof

Site Information:

Project Customer: DRB Raleigh Project Name: DRB Raleigh Model Track

Lot/Block: Subdivision:

Model: Callaway

Address:

State: NC City:

General Truss Engineering Criteria & Design Loads (Individual Truss Design

Drawings Show Special Loading Conditions):

Design Code: IRC2021/TPI2014

Wind Code: ASCE 7-16 Wind Speed: 120 mph Roof Load: 40.0 psf

Mean Roof Height (feet): 25

Design Program: MiTek 20/20 8.8

Design Method: MWFRS (Envelope)/C-C hybrid Wind ASCE 7-16

Trenco

818 Soundside Rd

Edenton, NC 27932

Floor Load: N/A psf

Exposure Category: B

| No. | Seal# | Truss Name | Date |
|---------------------------------|---|--------------------------------|--|
| 1 2 3 4 5 6 7 | 171226774 171226775 171226776 171226777 171226769 171226770 171226763 | A1 A1A A1G A2SG A2 | 2/6/25 2/6/25 2/6/25 2/6/25 2/6/25 2/6/25 2/6/25 |

The truss drawing(s) referenced above have been prepared by Truss Engineering Co. under my direct supervision based on the parameters

Truss Engineering Co. under my direct supervision based on the parameters provided by Structural, LLC.

Truss Design Engineer's Name: Gilbert, Eric

My license renewal date for the state of North Carolina is December 31, 2025

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's has not independently verified the 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.



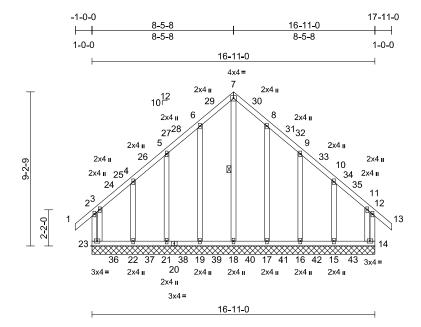
February 6,2025

Gilbert, Eric

| Job | Truss | Truss Type | Qty | Ply | Callaway Rev 98-Elev 1-Roof | |
|-----|-------|------------------------|-----|-----|-----------------------------|-----------|
| | A2G | Common Supported Gable | 3 | 1 | Joh Reference (ontional) | l71226763 |

Run: 8.83 S Feb 1 2025 Print: 8.830 S Feb 1 2025 MiTek Industries, Inc. Wed Feb 05 09:38:16 ID:9jXY5fBZeXEhGhos4ShjapyFazw-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



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|-----|---|---|---|---|----|
| | | | | | |

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|--------------|-----------|-----------------|-----------------|-----------|------|----------|------|-------|--------|-----|----------------|----------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.21 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| Snow (Pf/Pg) | 15.4/20.0 | Lumber DOL | 1.15 | BC | 0.25 | Vert(CT) | n/a | - | n/a | 999 | | |
| TCDL | 10.0 | Rep Stress Incr | YES | WB | 0.28 | Horz(CT) | 0.00 | 14 | n/a | n/a | | |
| BCLL | 0.0* | Code | IRC2021/TPI2014 | Matrix-AS | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 134 lb | FT = 20% |

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied,

except end verticals.

BOT CHORD Rigid ceiling directly applied. **WEBS** 1 Row at midpt

REACTIONS (size)

14=16-11-0, 15=16-11-0, 16=16-11-0, 17=16-11-0, 18=16-11-0, 19=16-11-0

21=16-11-0, 22=16-11-0, 23=16-11-0

Max Horiz 23=-172 (LC 14)

14=-87 (LC 13), 15=-102 (LC 12), Max Uplift

16=-18 (LC 17), 17=-19 (LC 17), 19=-19 (LC 16), 21=-18 (LC 16), 22=-108 (LC 13), 23=-95 (LC 12)

Max Grav 14=327 (LC 55), 15=340 (LC 80), 16=331 (LC 79), 17=335 (LC 78),

18=326 (LC 77), 19=335 (LC 76), 21=331 (LC 75), 22=340 (LC 74),

23=327 (LC 44)

FORCES (lb) - Maximum Compression/Maximum

TOP CHORD

2-23=-245/167, 1-2=0/60, 2-3=-89/129, 3-4=-122/119, 4-5=-92/182, 5-6=-119/262,

6-7=-151/327, 7-8=-152/327, 8-9=-118/261, 9-10=-92/184, 10-11=-114/112,

11-12=-86/128, 12-13=0/60, 12-14=-245/164 22-23=-87/85, 21-22=-87/85, 19-21=-87/85,

18-19=-87/85, 17-18=-87/85, 16-17=-87/85, 15-16=-87/85, 14-15=-87/85

WFBS

7-18=-345/103, 6-19=-278/77, 5-21=-280/105, 4-22=-284/126, 3-23=-247/213, 8-17=-278/77 9-16=-280/105, 10-15=-284/124, 11-14=-233/199

NOTES

- Unbalanced roof live loads have been considered for 1) this design
- Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner (3E) -1-0-0 to 2-0-0, Exterior(2N) 2-0-0 to 8-5-8, Corner (3R) 8-5-8 to 11-5-8, Exterior(2N) 11-5-8 to 17-11-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 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 desian.
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads
- Plates checked for a plus or minus 5 degree rotation about its center.
- Gable requires continuous bottom chord bearing.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 10) Gable studs spaced at 2-0-0 oc.
- 11) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- 12) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 13) All bearings are assumed to be SP No.2.
- 14) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 95 lb uplift at joint 23, 87 lb uplift at joint 14, 19 lb uplift at joint 19, 18 lb uplift at joint 21, 108 lb uplift at joint 22, 19 lb uplift at joint 17, 18 lb uplift at joint 16 and 102 lb uplift at joint
- 15) This truss has been designed for a moving concentrated load of 250.0lb live and 3.0lb dead located at all mid panels and at all panel points along the Top Chord and Bottom Chord, nonconcurrent with any other live loads.
- 16) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord

LOAD CASE(S) Standard



February 6,2025



BOT CHORD

👠 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 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/TPH Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)

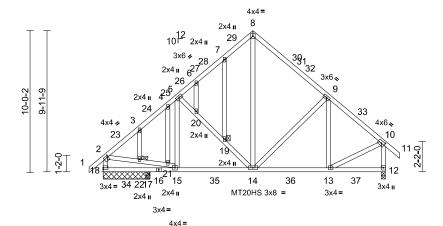


Qty Job Truss Truss Type Ply Callaway Rev 98-Elev 1-Roof I71226769 A2SG 3 1 Common Supported Gable Job Reference (optional)

Structural, LLC, Thurmont, MD - 21788.

Run: 8.82 E Oct 10 2024 Print: 8.820 E Oct 10 2024 MiTek Industries, Inc. Thu Feb 06 16:39:41 ID:udx0R0a8E32kPzMj7Kjw3LyFawr-qliJCZLP2SDvYgoWeSr4yRhBNGL8Zpakyft3mUzo 6W





3-1-12 10-6-11 15-10-15 19-11-0 3-1-12 2-0-12 5-4-3 4-0-1 5-4-3 Scale = 1:74.2

Plate Offsets (X, Y): [2:0-0-12,0-1-8], [10:0-2-14,0-2-0]

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|--------------|-----------|-----------------|-----------------|-----------|------|----------|-------|-------|--------|-----|----------------|----------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.59 | Vert(LL) | -0.10 | 13-14 | >999 | 360 | MT20 | 244/190 |
| Snow (Pf/Pg) | 15.4/20.0 | Lumber DOL | 1.15 | BC | 0.73 | Vert(CT) | -0.13 | 14-15 | >999 | 240 | MT20HS | 187/143 |
| TCDL | 10.0 | Rep Stress Incr | YES | WB | 0.55 | Horz(CT) | 0.01 | 12 | n/a | n/a | | |
| BCLL | 0.0* | Code | IRC2021/TPI2014 | Matrix-AS | | Wind(LL) | 0.01 | 14-15 | >999 | 240 | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 160 lb | FT = 20% |

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied,

except end verticals.

BOT CHORD Rigid ceiling directly applied.

JOINTS 1 Brace at Jt(s): 19,

REACTIONS (lb/size) 12=741/0-3-8. 17=79/0-3-8.

18=686/3-3-8 Max Horiz 18=185 (LC 15) 17=-21 (LC 63) Max Uplift

Max Grav 12=841 (LC 2), 17=315 (LC 67),

18=783 (LC 2)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250

(lb) or less except when shown.

TOP CHORD 2-18=-790/87, 2-23=-832/27, 3-23=-763/41,

3-24=-780/63, 4-24=-754/74, 4-25=-630/70, 5-25=-613/72, 5-26=-664/85, 6-26=-642/94,

6-27=-617/101, 27-28=-591/106, 7-28=-583/112, 7-29=-581/123,

8-29=-523/137, 8-30=-584/126, 30-31=-586/105, 31-32=-597/103,

9-32=-672/98, 9-33=-611/67, 10-33=-722/48,

10-12=-833/72

15-35=-19/592, 14-35=-19/592, 14-36=0/514, BOT CHORD

13-36=0/514

2-22=0/452 21-22=0/446 15-21=0/491

5-20=-257/91, 19-20=-263/93

14-19=-282/108, 8-14=-67/445, 10-13=0/538

NOTES

WEBS

Unbalanced roof live loads have been considered for this design.

- 2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II: Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -1-0-0 to 2-0-0, Interior (1) 2-0-0 to 10-6-11, Exterior(2R) 10-6-11 to 13-6-11, Interior (1) 13-6-11 to 20-11-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable or consult qualified building designer as per ANSI/TPI 1.
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- All plates are MT20 plates unless otherwise indicated.
- Plates checked for a plus or minus 5 degree rotation about its center.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 10) Gable studs spaced at 2-0-0 oc.
- 11) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 12) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 13) N/A

14) This truss has been designed for a moving concentrated load of 250.0lb live and 3.0lb dead located at all mid panels and at all panel points along the Top Chord and Bottom Chord, nonconcurrent with any other live loads.

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15) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard



February 6,2025

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BFFORF USF Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not

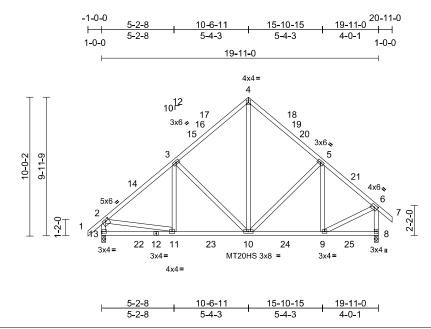
a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing 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/TPH Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



| Job | Truss | Truss Type | Qty | Ply | Callaway Rev 98-Elev 1-Roof | |
|-----|-------|------------|-----|-----|-----------------------------|-----------|
| | A2 | Common | 6 | 1 | Job Reference (optional) | l71226770 |

Run; 8.83 S Feb 1 2025 Print; 8.830 S Feb 1 2025 MiTek Industries, Inc. Wed Feb 05 09:38:16 ID:djgC0RqBOVnJVgmr7NdwhmyFaz6-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

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Scale = 1:83.1

Plate Offsets (X, Y): [2:0-2-12,0-1-8], [6:0-2-14,0-2-0]

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|--------------|-----------|-----------------|-----------------|-----------|------|----------|-------|-------|--------|-----|----------------|----------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.61 | Vert(LL) | -0.11 | 10-11 | >999 | 360 | MT20 | 244/190 |
| Snow (Pf/Pg) | 15.4/20.0 | Lumber DOL | 1.15 | BC | 0.73 | Vert(CT) | -0.13 | 10-11 | >999 | 240 | MT20HS | 187/143 |
| TCDL | 10.0 | Rep Stress Incr | YES | WB | 0.33 | Horz(CT) | 0.01 | 8 | n/a | n/a | | |
| BCLL | 0.0* | Code | IRC2021/TPI2014 | Matrix-AS | | Wind(LL) | 0.01 | 10-11 | >999 | 240 | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 139 lb | FT = 20% |

LUMBER

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

2x4 SP No.3 *Except* 13-2,8-6:2x4 SP No.2 WEBS

BRACING

TOP CHORD Structural wood sheathing directly applied,

except end verticals. **BOT CHORD** Rigid ceiling directly applied.

REACTIONS 8=0-3-8, 13=0-3-8 (size)

Max Horiz 13=185 (LC 15)

Max Grav 8=854 (LC 2), 13=854 (LC 2)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/60, 2-3=-894/60, 3-4=-690/129,

4-5=-687/123, 5-6=-735/63, 6-7=0/60, 2-13=-830/79, 6-8=-848/70

BOT CHORD 11-13=-151/241, 10-11=-14/639, 9-10=0/525,

8-9=-12/66

WEBS 2-11=0/488, 6-9=0/549, 3-11=0/278,

3-10=-314/94, 4-10=-57/452, 5-10=-191/95,

5-9=-156/151

NOTES

- Unbalanced roof live loads have been considered for
- Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -1-0-0 to 2-0-0, Interior (1) 2-0-0 to 10-6-11, Exterior(2R) 10-6-11 to 13-6-11, Interior (1) 13-6-11 to 20-11-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10

- 4) Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- All plates are MT20 plates unless otherwise indicated.
- Plates checked for a plus or minus 5 degree rotation about its center.
- 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 10) All bearings are assumed to be SP No.2.
- 11) This truss has been designed for a moving concentrated load of 250.0lb live and 3.0lb dead located at all mid panels and at all panel points along the Top Chord and Bottom Chord, nonconcurrent with any other live loads.
- 12) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard



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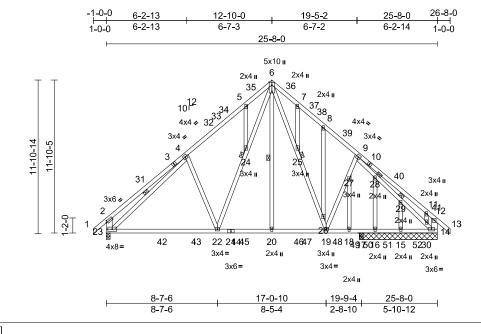
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Job Truss Truss Type Qty Ply Callaway Rev 98-Elev 1-Roof I71226774 A1SG 3 1 Common Supported Gable Job Reference (optional)

Structural, LLC, Thurmont, MD - 21788.

Run: 8.82 E Oct 10 2024 Print: 8.820 E Oct 10 2024 MiTek Industries, Inc. Thu Feb 06 16:40:52 ID:dUDC6qIYHS5ytiSS9bKCwhyFamI-nmwmuVBJZz1 xR8zI95UnCa9xUHFzS013YqmDQzo 5C Page: 1



Scale = 1:81.8

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

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|--------------|-----------|-----------------|-----------------|-----------|------|----------|-------|-------|--------|-----|----------------|----------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.58 | Vert(LL) | -0.24 | 22-23 | >979 | 360 | MT20 | 244/190 |
| Snow (Pf/Pg) | 15.4/20.0 | Lumber DOL | 1.15 | BC | 0.55 | Vert(CT) | -0.33 | 22-23 | >702 | 240 | | |
| TCDL | 10.0 | Rep Stress Incr | YES | WB | 0.60 | Horz(CT) | 0.02 | 14 | n/a | n/a | | |
| BCLL | 0.0* | Code | IRC2021/TPI2014 | Matrix-AS | | Wind(LL) | 0.01 | 19-20 | >999 | 240 | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 229 lb | FT = 20% |

LUMBER

TOP CHORD 2x4 SP No.2

BOT CHORD 2x4 SP SS *Except* 21-14:2x4 SP No.2 2x4 SP No.3 *Except* 23-2,14-12:2x6 SP WEBS

No.2

2x4 SP No.3 **OTHERS**

BRACING

TOP CHORD

TOP CHORD Structural wood sheathing directly applied,

except end verticals.

BOT CHORD Rigid ceiling directly applied

WEBS 1 Row at midpt 4-23, 6-20

JOINTS 1 Brace at Jt(s): 24,

25, 28, 29

REACTIONS All bearings 6-0-8. except 23=0-3-8, 17=0-3-8

(lb) - Max Horiz 23=-206 (LC 14)

Max Uplift All uplift 100 (lb) or less at joint(s)

15, 16

All reactions 250 (lb) or less at joint Max Grav (s) except 14=757 (LC 35), 15=317

(LC 76), 16=313 (LC 75), 17=422

(LC 65), 23=1127 (LC 34)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250

(lb) or less except when shown. 2-23=-575/118, 2-31=-617/103, 3-31=-523/105, 3-4=-448/127,

4-32=-1220/137, 32-33=-1125/156, 33-34=-1122/158, 5-34=-1106/166, 5-35=-1135/190, 6-35=-1083/203, 6-36=-856/218, 7-36=-906/204,

7-37=-956/210, 37-38=-958/206, 8-38=-995/201, 8-39=-932/154, 9-39=-997/135, 11-40=-289/129,

12-14=-335/55

BOT CHORD 23-42=0/907, 42-43=0/907, 22-43=0/907, 21-22=0/613, 21-44=0/613, 44-45=0/613, 20-45=0/613, 20-46=0/616, 46-47=0/616, 19-47=0/616, 19-48=0/622, 18-48=0/622, 18-49=0/622, 17-49=0/622, 17-50=0/622. 16-50=0/622, 16-51=0/622, 15-51=0/622,

15-52=0/622, 14-52=0/622

22-24=-63/582, 6-24=-99/681, 4-22=-275/158, 9-28=-859/0, 28-29=-683/0,

29-30=-660/0, 14-30=-752/18, 4-23=-742/0, 6-20=-4/317, 8-26=-291/74

NOTES

WFBS

Unbalanced roof live loads have been considered for

Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -1-0-0 to 2-0-0, Interior (1) 2-0-0 to 12-7-10, Exterior(2R) 12-7-10 to 15-7-10, Interior (1) 15-7-10 to 26-8-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

Truss designed for wind loads in the plane of the truss only. For stude 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=20.0 psf; Pf=15.4 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- Plates checked for a plus or minus 5 degree rotation about its center.

- 8) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 2-0-0 oc.
- 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint (s) 16.
- 13) N/A

14) This truss has been designed for a moving concentrated load of 250.0lb live and 3.0lb dead located at all midpanels and at all panel points along the Top Chord and Bottom Chord, nonconcurrent with any other live loads.



Continued on page 2

sign parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 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/TPH Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



| Job | Truss | Truss Type | Qty | Ply | Callaway Rev 98-Elev 1-Roof | |
|-----|-------|------------------------|-----|-----|--------------------------------------|------|
| | A1SG | Common Supported Gable | 3 | 1 | I71226 Job Reference (optional) | 5774 |

Run: 8.82 E Oct 10 2024 Print: 8.820 E Oct 10 2024 MiTek Industries, Inc. Thu Feb 06 16:40:52 Page: 2

15) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard

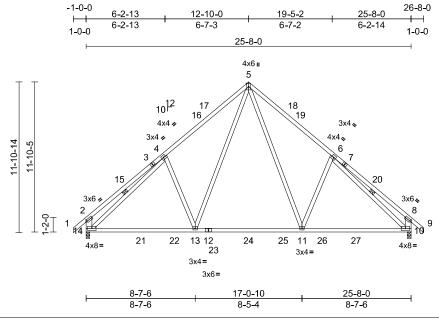


818 Soundside Road Edenton, NC 27932

| Job | Truss | Truss Type | Qty | Ply | Callaway Rev 98-Elev 1-Roof | |
|-----|-------|------------|-----|-----|-----------------------------|--|
| | A1 | Common | 78 | 1 | Job Reference (optional) | |

Run; 8.83 S Feb 1 2025 Print; 8.830 S Feb 1 2025 MiTek Industries, Inc. Wed Feb 05 09:38:12 ID:qETv|zbuCmgDXLsEkC8Ti9yFap4-RfC?PsB70Hq3NSgPqnL8w3u|TXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:91.1

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

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|--------------|-----------|-----------------|-----------------|-----------|------|----------|-------|-------|--------|-----|----------------|----------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.84 | Vert(LL) | -0.31 | 11-13 | >987 | 360 | MT20 | 244/190 |
| Snow (Pf/Pg) | 15.4/20.0 | Lumber DOL | 1.15 | BC | 0.56 | Vert(CT) | -0.38 | 11-13 | >795 | 240 | | |
| TCDL | 10.0 | Rep Stress Incr | YES | WB | 0.35 | Horz(CT) | 0.03 | 10 | n/a | n/a | | |
| BCLL | 0.0* | Code | IRC2021/TPI2014 | Matrix-AS | | Wind(LL) | 0.02 | 11-13 | >999 | 240 | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 174 lb | FT = 20% |

LUMBER

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

2x4 SP No.3 *Except* 14-2,10-8:2x6 SP No.2 WEBS

BRACING

TOP CHORD Structural wood sheathing directly applied,

except end verticals. **BOT CHORD** Rigid ceiling directly applied.

WEBS 1 Row at midpt 4-14, 6-10

REACTIONS (size) 10=0-3-8, 14=0-3-8

Max Horiz 14=-208 (LC 14)

Max Grav 10=1241 (LC 35), 14=1241 (LC 34)

FORCES (lb) - Maximum Compression/Maximum

Tension

1-2=0/64, 2-4=-578/122, 4-5=-1415/176,

5-6=-1415/176, 6-8=-578/122, 8-9=0/64,

2-14=-546/114, 8-10=-546/114

BOT CHORD 13-14=0/1037, 11-13=0/719, 10-11=0/1019 **WEBS** 5-11=-58/670, 6-11=-279/172, 5-13=-58/670, 4-13=-279/172, 4-14=-974/0, 6-10=-974/0

NOTES

TOP CHORD

- 1) Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -1-0-0 to 2-0-0, Interior (1) 2-0-0 to 12-10-0, Exterior(2R) 12-10-0 to 15-10-0, Interior (1) 15-10-0 to 26-8-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10

- 4) Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- Plates checked for a plus or minus 5 degree rotation about its center.
- 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 9) All bearings are assumed to be SP SS 10) This truss has been designed for a moving concentrated load of 250.0lb live and 3.0lb dead located at all mid panels and at all panel points along the Top Chord and
- Bottom Chord, nonconcurrent with any other live loads. 11) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard



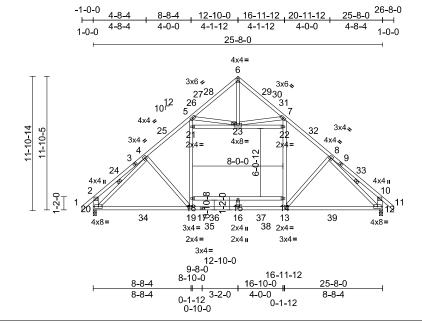
MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not

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| Job | Truss | Truss Type | Qty | Ply | Callaway Rev 98-Elev 1-Roof | |
|-----|-------|------------|-----|-----|-----------------------------|-----------|
| | A1A | Attic | 36 | 1 | Job Reference (optional) | l71226776 |

Run: 8.83 S Feb 1 2025 Print: 8.830 S Feb 1 2025 MiTek Industries, Inc. Wed Feb 05 09:38:13 ID:d3OLw0N1r19ycTW69LM5w3yFatE-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:102.3

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

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|--------------|-----------|-----------------|-----------------|-----------|------|----------|-------|-------|--------|-----|----------------|----------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.54 | Vert(LL) | -0.38 | 12-13 | >798 | 360 | MT20 | 244/190 |
| Snow (Pf/Pg) | 15.4/20.0 | Lumber DOL | 1.15 | BC | 0.55 | Vert(CT) | -0.48 | 16 | >633 | 240 | | |
| TCDL | 10.0 | Rep Stress Incr | YES | WB | 0.56 | Horz(CT) | 0.03 | 12 | n/a | n/a | | |
| BCLL | 0.0* | Code | IRC2021/TPI2014 | Matrix-AS | | Wind(LL) | 0.18 | 19-20 | >999 | 240 | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 197 lb | FT = 20% |

LUMBER

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

WEBS 2x4 SP No.3 *Except* 7-13,5-19,21-22:2x4 SP No.2, 20-2,12-10:2x6 SP No.2

BRACING

TOP CHORD Structural wood sheathing directly applied,

except end verticals.

BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 4-20, 8-12

JOINTS 1 Brace at Jt(s): 23

REACTIONS (size) 12=0-3-8, 20=0-3-8

Max Horiz 20=-208 (LC 14) Max Grav 12=1362 (LC 36), 20=1362 (LC 35)

FORCES (Ib) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/64, 2-4=-445/107, 4-5=-1643/0,

5-6=-452/49, 6-7=-452/49, 7-8=-1643/0,

8-10=-445/107, 10-11=0/64, 2-20=-426/93,

10-12=-426/93

BOT CHORD 19-20=0/1190, 16-19=0/1131, 13-16=0/1131,

12-13=0/1170

13-14=0/583, 14-22=0/640, 7-22=0/630,

8-13=-129/153, 18-19=0/583, 18-21=0/640, 5-21=0/630, 4-19=-129/153, 15-18=0/32,

14-15=0/32, 21-23=-200/152,

22-23=-200/152, 6-23=0/245, 4-20=-1473/0, 8-12=-1473/0, 15-16=0/201, 5-23=-952/0,

7-23=-952/0

NOTES

WEBS

 Unbalanced roof live loads have been considered for this design.

- 2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -1-0-0 to 2-0-0, Interior (1) 2-0-0 to 12-10-0, Exterior(2R) 12-10-0 to 15-10-0, Interior (1) 15-10-0 to 26-8-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 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.
- 5) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 200.0lb AC unit load placed on the bottom chord, 12-10-0 from left end, supported at two points, 5-0-0 apart.
- Plates checked for a plus or minus 5 degree rotation about its center.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Bottom chord live load (20.0 psf) and additional bottom chord dead load (20.0 psf) applied only to room. 16-19, 13-16
- 11) All bearings are assumed to be SP SS.
- 12) This truss has been designed for a moving concentrated load of 250.0lb live and 3.0lb dead located at all mid panels and at all panel points along the Top Chord and Bottom Chord, nonconcurrent with any other live loads.

- 13) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 14) Attic room checked for L/360 deflection.

LOAD CASE(S) Standard



February 6,2025

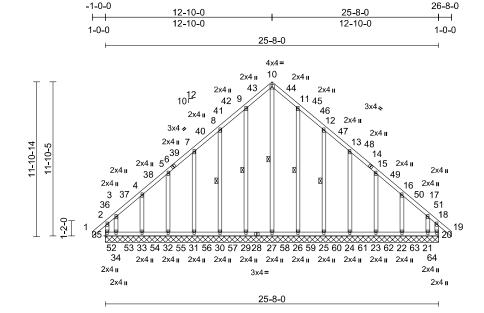


a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing 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 ANSITPH Quality Criteria and DSS-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



| Job | Truss | Truss Type | Qty | Ply | Callaway Rev 98-Elev 1-Roof | |
|-----|-------|------------|-----|-----|-----------------------------|-----------|
| | A1G | Common | 6 | 1 | .lob Reference (optional) | l71226777 |

Run; 8.83 S Feb 1 2025 Print; 8.830 S Feb 1 2025 MiTek Industries, Inc. Wed Feb 05 09;38;14 ID:1DEdMD1PiXbXChIMpDygY3yFb 7-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



| Scale | _ | .0 | 0.0 |
|-------|---|----|-----|
| | | | |

| Loading | (psf) | Spacing | 2-0-0 | csi | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|--------------|-----------|-----------------|-----------------|-----------|------|----------|------|-------|--------|-----|----------------|----------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.21 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| Snow (Pf/Pg) | 15.4/20.0 | Lumber DOL | 1.15 | BC | 0.19 | Vert(CT) | n/a | - | n/a | 999 | | |
| TCDL | 10.0 | Rep Stress Incr | YES | WB | 0.23 | Horz(CT) | 0.00 | 20 | n/a | n/a | | |
| BCLL | 0.0* | Code | IRC2021/TPI2014 | Matrix-AS | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 209 lb | FT = 20% |

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

BRACING

LUMBER

TOP CHORD Structural wood sheathing directly applied,

except end verticals.

BOT CHORD Rigid ceiling directly applied. **WEBS** 10-27, 9-29, 8-30, 11-26, 1 Row at midpt

12-25 REACTIONS (size) 20=25-8-0, 21=25-8-0, 22=25-8-0,

23=25-8-0, 24=25-8-0, 25=25-8-0, 26=25-8-0, 27=25-8-0, 29=25-8-0,

30=25-8-0, 31=25-8-0, 32=25-8-0, 33=25-8-0, 34=25-8-0, 35=25-8-0

Max Horiz 35=-207 (LC 14)

Max Uplift 20=-139 (LC 15), 21=-167 (LC 12), 22=-20 (LC 17), 23=-27 (LC 17),

24=-24 (LC 17), 25=-32 (LC 17), 26=-13 (LC 17), 29=-14 (LC 16), 30=-31 (LC 16), 31=-24 (LC 16), 32=-28 (LC 16), 33=-19 (LC 16),

34=-207 (LC 13), 35=-203 (LC 14) Max Grav 20=297 (LC 101), 21=297 (LC

100), 22=336 (LC 99), 23=332 (LC 98), 24=333 (LC 97), 25=333 (LC 96), 26=334 (LC 95), 27=330 (LC

94), 29=334 (LC 93), 30=333 (LC 92), 31=333 (LC 91), 32=332 (LC 90), 33=336 (LC 89), 34=297 (LC

88), 35=297 (LC 87) (lb) - Maximum Compression/Maximum

Tension

1-2=0/60, 2-3=-206/176, 3-4=-129/127, 4-5=-112/108, 5-7=-98/106, 7-8=-96/161, 8-9=-134/229, 9-10=-164/280, 10-11=-164/280, 11-12=-134/229,

12-13=-96/161, 13-15=-95/98, 15-16=-96/92, 16-17=-97/105, 17-18=-162/129, 18-19=0/60,

2-35=-284/118, 18-20=-284/80 BOT CHORD 34-35=-97/132, 33-34=-97/132, 32-33=-97/132, 31-32=-97/132

> 30-31=-97/132, 29-30=-97/132 27-29=-97/132, 26-27=-97/132 25-26=-97/132, 24-25=-97/132 23-24=-97/132, 22-23=-97/132

21-22=-97/132, 20-21=-97/132 10-27=-295/117, 9-29=-273/53 8-30=-274/85, 7-31=-277/74, 5-32=-280/76,

4-33=-286/80, 3-34=-251/119, 11-26=-273/53, 12-25=-274/86, 13-24=-277/74, 15-23=-280/76, 16-22=-286/80,

17-21=-251/116

NOTES

WEBS

Unbalanced roof live loads have been considered for 1) this design

Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner (3E) -1-0-0 to 2-0-0. Exterior(2N) 2-0-0 to 12-10-0. Corner(3R) 12-10-0 to 15-10-0, Exterior(2N) 15-10-0 to 26-8-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable or consult qualified building designer as per ANSI/TPI 1.

- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- Plates checked for a plus or minus 5 degree rotation about its center.
- Gable requires continuous bottom chord bearing.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 10) Gable studs spaced at 2-0-0 oc.
- 11) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 13) All bearings are assumed to be SP No.2



Continued on page 2

FORCES

Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 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

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| Job | Truss | Truss Type | Qty | Ply | Callaway Rev 98-Elev 1-Roof |
|-----|-------|------------|-----|-----|-----------------------------|
| | A1G | Common | 6 | 1 | Job Reference (optional) |

Run: 8.83 S Feb 1 2025 Print: 8.830 S Feb 1 2025 MiTek Industries, Inc. Wed Feb 05 09:38:14 $ID: 1DEdMD1PiXbXChIMpDygY3yFb_7-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?ff$

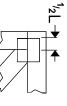
Page: 2

- 14) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 203 lb uplift at joint 35, 139 lb uplift at joint 20, 14 lb uplift at joint 29, 31 lb uplift at joint 30, 24 lb uplift at joint 31, 28 lb uplift at joint 32, 19 lb uplift at joint 33, 207 lb uplift at joint 34, 13 lb uplift at joint 26, 32 lb uplift at joint 25, 24 lb uplift at joint 24, 27 lb uplift at joint 23, 20 lb uplift at joint 22 and 167 lb uplift at joint 21.
- 15) This truss has been designed for a moving concentrated load of 250.0lb live and 3.0lb dead located at all mid panels and at all panel points along the Top Chord and Bottom Chord, nonconcurrent with any other live loads.
- 16) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard

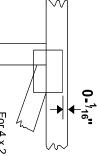
Symbols

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.

ω

6

5

ი თ

3

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

* Plate location details available in MiTek software or upon request.

PLATE SIZE

4 × 4

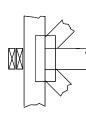
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

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



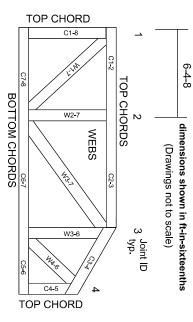
Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number/letter where bearings occur Min size shown is for crushing only.

Industry Standards:

National Design Specification for Metal Plate Connected Wood Truss Construction. Design Standard for Bracing. Building Component Safety Information, Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate Connected Wood Trusses.

ANSI/TPI1: DSB-22:

Numbering System



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-1988, ESR-2362, ESR-2685, ESR-3282 ESR-4722, ESL-1388

Design General Notes

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

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

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ENGINEERING BY

MiTek Engineering Reference Sheet: MII-7473 rev. 1/2/2023

▲ General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

- Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI
- 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.

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Never exceed the design loading shown and never stack materials on inadequately braced trusses.

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- Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
- Cut members to bear tightly against each other.
- Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI 1.
- Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
- Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
- Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
- Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
- Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
- Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
- Top chords must be sheathed or purlins provided at spacing indicated on design.
- 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.
- Do not cut or alter truss member or plate without prior approval of an engineer.
- 17. Install and load vertically unless indicated otherwise.
- Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
- Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
- Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.
- The design does not take into account any dynamic or other loads other than those expressly stated.