19-267500/510-DFS-01-RS



City of Portland, Oregon - Bureau of Development Services

1900 SW Fourth Avenue • Portland, Oregon 97201 | 503-823-7300 | www.portlandoregon.gov/bds



Deferred Submittal Requirements and Application

Minimum Submittal Requirements (check all boxes and sign below):

For a full list of deferred submittal guidelines, please visit: www.portlandoregon.gov/bds/article/754963

| A copy | of this | application |
|--------|---------|-------------|
| | | |

- Plans stamped and signed by a Design Engineer or Architect registered in Oregon. One PDF copy of plans for electronic submittals or three copies for paper submittals.
- Calculations and product information. One PDF copy for electronic submittals or two copies for paper submittals.
- Prior to submitting the deferred submittal, the Engineer of Record and/or Architect of Record responsible for the building shall review the deferred submittal plans and supporting materials and add a notation indicating that the deferred submittal documents have been reviewed and found to be in general conformance with the design of the building. The notation shall be made on the deferred submittal drawings. Review stamps on letters of transmission are not acceptable. Exception: the notation is not required on deferred submittals for roof trusses in residential construction when an Engineer or Architect of Record is not involved with the design of the building.
- Plan views and elevations identifying the location(s) as approved by the Engineer and/or Architect of Record must be submitted as appropriate but are required when the deferred submittal items include exterior elements.

I certify this deferred submittal application meets the minimum submittal requirements as outlined above.

| | | Date |
|--|--|---|
| Applicant Submittal Information: | | |
| Applicant name: | | |
| Address: | | |
| City: | State: | Zip Code: |
| Phone: | Email: | |
| Value of deferred submittal: \$ | Issued main buildi | ing permit #: |
| Job Site Address: | | |
| Description/Scope of work: | | |
| Contractor Name: | CCB: | |
| Engineer/Architect of Record for the I construction when an Engineer or Archit | building information (Not require tect of Record is not involved with | ed for roof trusses in residential the design of the building) |
| Name: | Phone: | |
| Design Engineer for the deferred item | IS | |
| Name: | Phone: | |

DEFERRED SUBMITTAL REQUIREMENTS AND APPLICATION

continued on reverse

Fees

An invoice with permit fees will be sent to the applicant once minimum submittal requirements have been verified. Deferred submittal (DFS) fees are collected in addition to the standard building review fee paid on the main building permit. DFS fees cover the cost of the additional processing and review time associated with the design build element. The DFS fee for processing and reviewing deferred plan submittals is 10 percent of the building permit fee calculated using the value of the deferred portion of the project with a minimum fee of \$195 for 1 & 2 family dwelling projects or \$510 for commercial and all other projects.

The Bureau of Development Services (BDS) fee schedule is also available on the BDS web site at www.portlandoregon.gov/bds/article/102792

Helpful Information

Bureau of Development Services 1900 SW 4th Avenue, Portland, OR 97201

Submit your plans to:

Development Services Center (DSC), First Floor, For Hours Call 503-823-7310 | Select option 1 or visit www.portlandoregon.gov/bds

Important Telephone Numbers

| BDS main number | 503-823-7300 |
|-------------------------------------|--------------|
| DSC automated information line | 503-823-7310 |
| Building code information | 503-823-1456 |
| BDS 24 hour inspection request line | 503-823-7000 |
| Residential information for | |
| one and two family dwellings | 503-823-7388 |
| City of Portland TTY | 503-823-6868 |

Information is subject to change.

DEFERRED SUBMITTAL REQUIREMENTS AND APPLICATION

City of Portland

19-267500/510-DFS-01-RS

Reviewed for code compliance Date: 02/23/22 Project #: 19-267500-DFS-01-RS



19-267500/510-DFS-01-RS



City of Portland Reviewed for code compliance Date: 02/23/22 Project #: 19-267500-DFS-01-RS

MiTek USA, Inc.

250 Klug Circle Corona, CA 92880 951-245-9525

Re: 213448-A Little Tacoma Construction

The truss drawing(s) referenced below have been prepared by MiTek USA, Inc. under my direct supervision based on the parameters provided by Trus-way Inc.

Pages or sheets covered by this seal: K10945303 thru K10945329

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



January 5,2022

Baxter, David

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.



ANXING- verify design parameters and READ NOTES ON THIS AND INCLUDED MITER REFERENCE PAGE MIT-74/3 rev. 5/19/2020 BEFORE USE. Design valid for use only with MITER® connectors. This design is based only upon 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

250 Klug Circle Corona, CA 92880

MiTek

| | | | | | | City of Portland |
|----------------------|-------------|-------------------|-----------|------------|------------------------------|---|
| Job | Truss | Truss Type | Qty | Ply | Little Tacoma Construction | Reviewed for code compliance |
| 213448-A | A01 | California Girder | 1 | 2 | Job Reference (optional) | Date: 02/23/22 |
| Trus-Way, Vancouver, | WA - 98661, | | | 8.530 s De | c 6 2021 MiTek Industries, I | 1c.Pitoject/am 149-1276:7052004D21032-201PFa6ge 2 |
| NOTES. | | ID:qq. | IKgy2cCIE | cKfeCJhM | g_xy54WG-mJcGpnvjuMS6j | 'jBeio4i82oDy7?4zaG?uBKZQzygSH |

15) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 416 lb down and 349 lb up at 5-11-4, 179 lb down and 157 lb up at 8-0-0, 215 lb down and 199 lb up at 10-0-0, and 179 lb down and 157 lb up at 12-0-0, and 416 lb down and 349 lb up at 14-0-12 on top chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

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

Uniform Loads (plf) Vert: 1-3=-56, 3-5=-56, 5-7=-56, 11-14=-20

Concentrated Loads (Ib)

Vert: 9=-57(F) 4=-139 17=-371 18=-91 21=-91 22=-371 23=-46(F) 24=-35(F) 25=-54(F) 26=-57(F) 27=-57(F) 28=-54(F) 29=-35(F) 30=-46(F)





| | L | 5-5-4 | 10-0-0 | | 14-6-12 | | | 20-0-0 | | | |
|---|---|---|--|--|--|--|---|--|---|--|-----------------------------------|
| | 1 | 5-5-4 | 4-6-12 | Ι | 4-6-1 | 2 | | | | 5-5-4 | |
| Plate Offsets (X | (,Y) [2:0-3-7,0 | 0-1-8], [8:0-3-7,0-1-8], [11:0- | 4-0,0-3-0] | | | | | | | | |
| LOADING (psf) TCLL (roof) Snow (Pf/Pg) 2 TCDL BCLL BCDL |) 25.0 20.8/30.0 7.0 0.0 * 10.0 | SPACING- 22 Plate Grip DOL Lumber DOL Rep Stress Incr Code IRC2015/TPI2 | 2-0-0 CSI. 1.15 TC 1.15 BC YES WB 014 Matri | 0.51 0.24 0.17 x-MS | DEFL. Vert(LL) Vert(CT) Horz(CT) Wind(LL) | in -0.03 -0.08 1 0.04 0.04 | (loc) 11 10-15 8 11 | l/defl >999 >999 n/a >999 | L/d 240 180 n/a 360 | PLATES MT20 Weight: 105 lb | GRIP 220/195 FT = 8% |
| LUMBER- | | | | BRA | CING- | | | | | | |
| TOP CHORD BOT CHORD WEBS REACTIONS. | 2x4 DF No.1&Bt 3-6: 2x6 DF SS 2x4 DF No.1&Bt 2x4 DF Stud/Std (size) 8=0-1 | r G *Except* G r G I G 5-8, 2=0-5-8 | | TOP BOT JOIN | CHORD S CHORD F TS 1 | Structura 2-0-0 oc Rigid ceil Brace a | l wood purlins ling dire at Jt(s): | sheathing (6-0-0 ma ectly appli 5 | g directly ap ax.): 3-6. ied or 8-6-1 | oplied or 5-7-0 oc purlins. 0 oc bracing. | , except |
| | Max Horz 2=13 Max Uplift 8=-20 Max Grav 8=93 | 97(LC 11) 68(LC 12), 2=-268(LC 12) 97(LC 1), 2=937(LC 1) | | | | | | | | | |
| FORCES. (lb) TOP CHORD BOT CHORD WEBS | - Max. Comp./M 2-3=-1364/873 2-12=-618/109 3-11=-258/379 | ax. Ten All forces 250 (lb) 3, 3-5=-1310/1231, 5-6=-131 9, 11-12=-620/1094, 10-11= 9, 5-11=-274/377, 6-11=-258 | or less except when sh 0/1231, 6-8=-1364/873 =-620/1094, 8-10=-618/1 /379 | own. 1099 | | | | | | | |
| NOTES- 1) Unbalanced 2) Wind: ASCE Enclosed; My for members | roof live loads ha 7-10; Vult=140m WFRS (directiona and forces & MV | ive been considered for this hph Vasd=111mph; TCDL=4 al) and C-C Exterior(2) zone VERS for reactions shown: 1 | design. .2psf; BCDL=6.0psf; h=: ; cantilever left and right umber DOI =1 60 plate | 25ft; B=45ft; L=2 t exposed ; end grip DOI =1.60 | 4ft; eave=4ft; C vertical left and | Cat. II; Ex right exp | xp B; posed;(| c-c | | | |

- 3) TCLL: ASCE 7-10; Pr=25.0 psf (roof live load: Lumber DOL=1.15); Pg=30.0 psf (ground snow); Pf=20.8 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10, Lu=50-0-0
- 4) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.8 psf on overhangs non-concurrent with other live loads.
- 5) Provide adequate drainage to prevent water ponding.
- 6) Plates checked for a plus or minus 4 degree rotation about its center.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 9) A plate rating reduction of 20% has been applied for the green lumber members.
 10) One RT7 MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 8 and 2. This connection is for uplift only and does not consider lateral forces.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



RENEWAL DATE: 12-31-2023 January 5,2022

MiTek° 250 Klug Circle Corona, CA 92880



RENEWAL DATE: 12-31-2023 January 5,2022

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

250 Klug Circle Corona, CA 92880



| | | 5-5-4 10-0-0 | | 10-0-0 | 14-6-12 | | | 20-0-0 | | |
|--|--|---|--|---|---|---|--|--|----------------------------------|-----------------------------------|
| | | 5-5-4 | | 4-6-12 | 4-6 | -12 | | 5. | -5-4 | |
| Plate Offsets (X | (,Y) [2:0-3-7,0 | 0-1-8], [8:0-3-7,0-1-8], [11:0 | 0-4-0,0-3-0] | | | | | | | |
| LOADING (psf) TCLL (roof) Snow (Pf/Pg) 2 TCDL BCLL BCDL |) 25.0 20.8/30.0 7.0 0.0 * 10.0 | SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code IRC2015/TPl2 | 2-0-0 1.15 1.15 YES 2014 | CSI. TC 0.51 BC 0.24 WB 0.17 Matrix-MS | DEFL. Vert(LL) Vert(CT) Horz(CT) Wind(LL) | in (lo -0.03 -0.08 10- 0.04 0.04 | oc) l/defl 11 >999 15 >999 8 n/a 11 >999 | L/d 240 180 n/a 360 | PLATES MT20 Weight: 105 lb | GRIP 220/195 FT = 8% |
| LUMBER- TOP CHORD BOT CHORD WEBS REACTIONS. | 2x4 DF No.1&Bf 3-6: 2x6 DF SS 2x4 DF No.1&Bf 2x4 DF Stud/Stud (size) 8=0- Max Horz 2=13 Max Uplift 8=-2 Max Grav 8=93 | tr G *Except* G Fr G I G 5-8, 2=0-5-8 17(LC 11) 68(LC 12), 2=-268(LC 12) 17(LC 1), 2=937(LC 1) | | | BRACING- TOP CHORD BOT CHORD JOINTS | Structural w 2-0-0 oc pur Rigid ceiling 1 Brace at J | ood sheathin rlins (6-0-0 m ı directly appl t(s): 5 | g directly app ax.): 3-6. lied or 8-6-10 | oc bracing. | except |
| FORCES. (lb) TOP CHORD BOT CHORD WEBS | - Max. Comp./M 2-3=-1364/873 2-12=-618/109 3-11=-258/379 | lax. Ten All forces 250 (lb 3, 3-5=-1310/1231, 5-6=-13 99, 11-12=-620/1094, 10-11 9, 5-11=-274/377, 6-11=-25 | o) or less exce 10/1231, 6-8= =-620/1094, 8 8/379 | pt when shown. -1364/873 3-10=-618/1099 | | | | | | |
| NOTES- | | | | | | | | | | |

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

2) Wind: ASCE 7-10; Vult=140mph Vasd=111mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

3) TCLL: ASCE 7-10; Pr=25.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=30.0 psf (ground snow); Pf=20.8 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10, Lu=50-0-0

4) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.8 psf on overhangs non-concurrent with other live loads.

5) Provide adequate drainage to prevent water ponding.

6) Plates checked for a plus or minus 4 degree rotation about its center.

7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

9) A plate rating reduction of 20% has been applied for the green lumber members.

 One RT7 MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 8 and 2. This connection is for uplift only and does not consider lateral forces.

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



RENEWAL DATE: 12-31-2023 January 5,2022





ANARNING - Venity design parameters and READ NOTES ON THIS AND INCLUDED MITER REFERENCE PAGE MIT-7473 ev. 5/19/2020 BEFORE USE. Design valid for use only with MITeR 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 <u>ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component</u> **Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

250 Klug Circle Corona, CA 92880

| | | | | | | City of Portland |
|----------------------|-------------|-------------------|----------|------------|------------------------------|--|
| Job | Truss | Truss Type | Qty | Ply | Little Tacoma Construction | Reviewed for code compliance |
| 213448-A | B02 | California Girder | 1 | 2 | Job Reference (optional) | Date: 02/23/22 |
| Trus-Way, Vancouver, | WA - 98661, | | | 8.530 s De | c 6 2021 MiTek Industries, I | c.Project/a/n 149-1276:7052009D27052-201PFa6ge 2 |
| NOTES- | | ID:qqJKg | y2cClEcK | feCJhMg_> | y54WG-aT_X4r_UUCCFRU | AK?yvUyPIpiNAPUh49Nqeen3zygSB |

15) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 416 lb down and 349 lb up at 5-11-4, 179 lb down and 157 lb up at 8-0-0, 215 lb down and 199 lb up at 10-0-0, and 179 lb down and 157 lb up at 12-0-0, and 416 lb down and 349 lb up at 14-0-12 on top chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-3=-56, 3-5=-56, 5-7=-56, 11-14=-20

Concentrated Loads (lb)

Vert: 9=-57(F) 4=-139 17=-371 18=-91 21=-91 22=-371 23=-46(F) 24=-35(F) 25=-54(F) 26=-57(F) 27=-57(F) 28=-54(F) 29=-35(F) 30=-46(F) 24=-35(F) 25=-54(F) 26=-57(F) 27=-57(F) 28=-54(F) 29=-35(F) 20=-46(F) 24=-35(F) 25=-54(F) 25=-55(F) 25=-54(F) 25=-55(F) 25=-





- 5) TCLL: ASCE 7-10; Pr=25.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=30.0 psf (ground snow); Pf=20.8 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10, Lu=50-0-0
- 6) Unbalanced snow loads have been considered for this design.
- 7) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.8 psf on overhangs non-concurrent with other live loads.
- 8) Provide adequate drainage to prevent water ponding.
- 9) Plates checked for a plus or minus 4 degree rotation about its center.
- 10) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads
- 11) * 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.
- 12) A plate rating reduction of 20% has been applied for the green lumber members.
- 13) One RT7 MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 5. This connection is for uplift only and does not consider lateral forces.
- 14) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 15) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidlines.

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 | Little Tacoma Construction | Reviewed for code compliance |
| 213448-A | G01 | California Girder | 2 | 2 | Job Reference (optional) | Date: 02/23/22 |
| Trus-Way, Vancouver | , WA - 98661, | | | 8.530 s De | c 6 2021 MiTek Industries, I | ic.Pi Tojiectia /n 149-226:7052003D27052-201PFa6ge 2 |
| NOTES- | | ID:c | lqJKgy2cC | IEcKfeCJhl | Mg_xy54WG-?2ffis0Nm7aql | vvg5TBZ1wJBbBdh27b3ntlOOzygS8 |

16) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 385 lb down and 247 lb up at 5-11-4, and 178 lb down and 134 lb up at 8-0-0, and 385 lb down and 246 lb up at 10-0-12 on top chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-3=-56, 3-4=-56, 4-6=-56, 10-13=-20

Concentrated Loads (lb)

Vert: 8=-58(F) 16=-303 17=-124 18=-303 19=-47(F) 20=-35(F) 21=-55(F) 22=-55(F) 23=-35(F) 24=-47(F)





REACTIONS. (size) 2=0-5-8, 6=0-5-8 Max Horz 2=86(LC 13) Max Uplift 2=-146(LC 14), 6=-146(LC 14) Max Grav 2=736(LC 2), 6=736(LC 2)

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

- TOP CHORD 2-3=-1119/436, 3-4=-843/320, 4-5=-843/320, 5-6=-1119/436
- BOT CHORD 2-8=-285/981, 6-8=-285/981

WEBS 3-8=-333/228, 4-8=-123/480, 5-8=-333/228

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=140mph Vasd=111mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2) 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 7-10; Pr=25.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=30.0 psf (ground snow); Pf=20.8 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10

4) Unbalanced snow loads have been considered for this design.

- 5) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.8 psf on overhangs non-concurrent with other live loads.
- 6) Plates checked for a plus or minus 4 degree rotation about its center.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 9) A plate rating reduction of 20% has been applied for the green lumber members.
- 10) One RT7 MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 6. This connection is for uplift only and does not consider lateral forces.

ASSTERED PROFESSION ENGINEER 89200PE PLID MAY 14, 2014 MERRILL BAT

RENEWAL DATE: 12-31-2023 January 5,2022

250 Klug Circle Corona, CA 92880



| | | | <u>5-11-4</u> 5-11-4 | | | | | | | |
|---|---|--|--|--|--|--|--|--|--|--|
| Plate Offsets (X,Y) [2:0-6-0,0-0-7] | | | | | | | | | | |
| LOADING (psf) TCLL (roof) 25.0 Snow (Pf/Pg) 20.8/30.0 TCDL 7.0 BCLL 0.0 BCDL 10.0 | SPACING-2-0-0Plate Grip DOL1.15Lumber DOL1.15Rep Stress IncrYESCode IRC2015/TPI2014 | CSI. TC 0.16 BC 0.16 WB 0.00 Matrix-MP | DEFL. in (loc) l/defl L/d Vert(LL) -0.02 4-7 >999 240 Vert(CT) -0.08 4-7 >886 180 Horz(CT) 0.00 3 n/a n/a Wind(LL) 0.01 4-7 >999 360 | PLATES GRIP MT20 220/195 Weight: 13 lb FT = 8% | | | | | | |

TOP CHORD 2x4 DF No.1&Btr G BOT CHORD 2x4 DF No.1&Btr G BRACING-TOP CHORD

 TOP CHORD
 Structural wood sheathing directly applied or 1-10-3 oc purlins.

 BOT CHORD
 Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 3=Mechanical, 2=0-5-8, 4=Mechanical

Max Horz 2=75(LC 12) Max Uplift 3=-6(LC 12), 2=-51(LC 12)

Max Grav 3=108(LC 40), 2=170(LC 2), 4=93(LC 5)

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

NOTES-

- Wind: ASCE 7-10; Vult=140mph Vasd=111mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2) 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 7-10; Pr=25.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=30.0 psf (ground snow); Pf=20.8 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10
- 3) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.8 psf on overhangs non-concurrent with other live loads.
- 4) Plates checked for a plus or minus 4 degree rotation about its center.
- 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) A plate rating reduction of 20% has been applied for the green lumber members.
- 8) Refer to girder(s) for truss to truss connections.
- 9) One RT7 MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 3 and 2. This connection is for uplift only and does not consider lateral forces.
- 10) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidlines.
- 11) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- 1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)
- Vert: 1-3=-56, 4-5=-20 Concentrated Loads (lb) Vert: 8=-2(B) 9=-37(B)



RENEWAL DATE: 12-31-2023 January 5,2022





| Plate Offsets (X,Y) | [2:0-4-1,0 | -0-5] | | | | | | | | | | |
|---|---------------------|--|------------------------------|------------------------|----------------------|--------------------------------------|--|--------------------------|-------------------------------|--------------------------|----------------|------------------------|
| LOADING (psf) TCLL (roof) Snow (Pf/Pg) 20.8/3 TCDL | 25.0 30.0 7.0 | SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr | 2-0-0 1.15 1.15 YES | CSI. TC BC WB | 0.16 0.19 0.00 | DEFL. Vert(Ll Vert(C Horz(C | in) -0.03 ⁻) -0.11 T) 0.00 | (loc) 4-7 4-7 3 | l/defl >999 >664 n/a | L/d 240 180 n/a | PLATES MT20 | GRIP 220/195 |
| BCDL | 10.0 | Code IRC2015/TF | 912014 | Matri | x-MP | Wind(L | L) -0.02 | 4-7 | >999 | 360 | Weight: 16 lb | FT = 8% |

TOP CHORD 2x4 DF No.1&Btr G BOT CHORD 2x4 DF No.1&Btr G BRACING-TOP CHORD

 TOP CHORD
 Structural wood sheathing directly applied or 3-10-3 oc purlins.

 BOT CHORD
 Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 3=Mechanical, 2=0-5-8, 4=Mechanical

Max Horz 2=118(LC 12) Max Uplift 3=-52(LC 12), 2=-39(LC 12)

Max Grav 3=117(LC 22), 2=251(LC 2), 4=99(LC 5)

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

NOTES-

- Wind: ASCE 7-10; Vult=140mph Vasd=111mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2) 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
- 2) TCLL: ASCE 7-10; Pr=25.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=30.0 psf (ground snow); Pf=20.8 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10
- 3) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.8 psf on overhangs non-concurrent with other live loads.
- 4) Plates checked for a plus or minus 4 degree rotation about its center.
- 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) A plate rating reduction of 20% has been applied for the green lumber members.
- 8) Refer to girder(s) for truss to truss connections.
- One RT7 MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 3 and 2. This connection is for uplift only and does not consider lateral forces.



RENEWAL DATE: 12-31-2023 January 5,2022





| Plate Offsets (X,Y) [2:0-3-7, | ,0-1-8] | | | | | | | |
|--|---|--|---|--|--|---------------------------------|---------------------------------|-----------------------------------|
| LOADING (psf) TCLL (roof) 25.0 Snow (Pf/Pg) 20.8/30.0 TCDL 7.0 BCLL 0.0 * BCDL 10.0 | SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2015/TPI2014 | CSI. TC 0.33 BC 0.25 WB 0.00 Matrix-MP | DEFL. Vert(LL) Vert(CT) Horz(CT) Wind(LL) | in (loc -0.05 4- -0.15 4- 0.00 0.05 4- | i) l/defl 7 >999 7 >478 2 n/a 7 >999 | L/d 240 180 n/a 360 | PLATES MT20 Weight: 20 lb | GRIP 220/195 FT = 8% |

TOP CHORD 2x4 DF No.1&Btr G BOT CHORD 2x4 DF No.1&Btr G BRACING-TOP CHORD

 TOP CHORD
 Structural wood sheathing directly applied or 5-10-3 oc purlins.

 BOT CHORD
 Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 3=Mechanical, 2=0-5-8, 4=Mechanical

Max Horz 2=163(LC 12) Max Uplift 3=-90(LC 12), 2=-41(LC 12)

Max Grav 3=162(LC 22), 2=314(LC 2), 4=107(LC 5)

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

NOTES-

- Wind: ASCE 7-10; Vult=140mph Vasd=111mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2) 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 7-10; Pr=25.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=30.0 psf (ground snow); Pf=20.8 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10
- 3) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.8 psf on overhangs non-concurrent with other live loads.
- 4) Plates checked for a plus or minus 4 degree rotation about its center.
- 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) A plate rating reduction of 20% has been applied for the green lumber members.
- 8) Refer to girder(s) for truss to truss connections.
- One RT7 MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 3 and 2. This connection is for uplift only and does not consider lateral forces.



RENEWAL DATE: 12-31-2023 January 5,2022





| Plate Offsets (X,Y) [2:0-3-7,0-1-8] | | | | | | | | | | |
|---|---|--|---|--|---|---------------------------------|---------------------------------|-----------------------------------|--|--|
| LOADING (psf) TCLL (roof) 25.0 Snow (Pf/Pg) 20.8/30.0 TCDL 7.0 BCLL 0.0 BCDL 10.0 | SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2015/TPI2014 | CSI. TC 0.36 BC 0.27 WB 0.00 Matrix-MP | DEFL. Vert(LL) Vert(CT) Horz(CT) Wind(LL) | in (loc -0.05 5- -0.16 5- 0.00 0.05 5- |) l/defl 3 >999 3 >446 2 n/a 3 >999 | L/d 240 180 n/a 360 | PLATES MT20 Weight: 23 lb | GRIP 220/195 FT = 8% | | |

TOP CHORD 2x4 DF No.1&Btr G BOT CHORD 2x4 DF No.1&Btr G BRACING-TOP CHORD

 TOP CHORD
 Structural wood sheathing directly applied or 5-11-4 oc purlins.

 BOT CHORD
 Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings Mechanical except (jt=length) 2=0-5-8, 3=0-3-3.

(lb) - Max Horz 2=207(LC 12)

Max Uplift All uplift 100 lb or less at joint(s) 4, 2 except 3=-129(LC 12)

Max Grav All reactions 250 lb or less at joint(s) 4, 5, 3 except 2=322(LC 2)

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

NOTES-

- Wind: ASCE 7-10; Vult=140mph Vasd=111mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2) 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
- 2) TCLL: ASCE 7-10; Pr=25.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=30.0 psf (ground snow); Pf=20.8 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10
- 3) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.8 psf on overhangs non-concurrent with other live loads.
- 4) Plates checked for a plus or minus 4 degree rotation about its center.
- 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) A plate rating reduction of 20% has been applied for the green lumber members.
- 8) Refer to girder(s) for truss to truss connections.
- 9) One RT7 MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 4, 2, and 3. This connection is for uplift only and does not consider lateral forces.
- 10) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 3.



RENEWAL DATE: 12-31-2023 January 5,2022

ig Component 250 Klug Circle Corona, CA 92880



| Plate Offsets (X,Y) [2:0-3-7 | ,0-1-8] | | | |
|---|---|--|--|----|
| LOADING (psf) TCLL (roof) 25.0 Snow (Pf/Pg) 20.8/30.0 TCDL 7.0 BCLL 0.0 * BCDL 10.0 * | SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2015/TPI2014 | CSI. TC 0.36 BC 0.27 WB 0.00 Matrix-MP | DEFL. in (loc) l/defl L/d PLATES GRIP Vert(LL) -0.05 5-8 >999 240 MT20 220/195 Vert(CT) -0.16 5-8 >446 180 MT20 220/195 Horz(CT) 0.00 4 n/a n/a Mindulate Weight: 26 lb FT = | 8% |
| | | | | |

TOP CHORD 2x4 DF No.1&Btr G BOT CHORD 2x4 DF No.1&Btr G BRACING-TOP CHORD

 TOP CHORD
 Structural wood sheathing directly applied or 5-11-4 oc purlins.

 BOT CHORD
 Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings Mechanical except (jt=length) 2=0-5-8, 3=0-3-3.

(lb) - Max Horz 2=252(LC 12)

Max Uplift All uplift 100 lb or less at joint(s) 4 except 3=-169(LC 12)

Max Grav All reactions 250 lb or less at joint(s) 4, 5 except 2=322(LC 2), 3=289(LC 22)

FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown. TOP CHORD 2-3=-256/213

NOTES-

- Wind: ASCE 7-10; Vult=140mph Vasd=111mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2) 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
- 2) TCLL: ASCE 7-10; Pr=25.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=30.0 psf (ground snow); Pf=20.8 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10
- 3) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.8 psf on overhangs non-concurrent with other live loads.
- 4) Plates checked for a plus or minus 4 degree rotation about its center.
- 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) A plate rating reduction of 20% has been applied for the green lumber members.
- 8) Refer to girder(s) for truss to truss connections.
- 9) One RT7 MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 4 and 3. This connection is for uplift only and does not consider lateral forces.
- 10) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 3.



RENEWAL DATE: 12-31-2023 January 5,2022

250 Klug Circle Corona, CA 92880



| | | | | | | 5-11-4 | | | | | | |
|--|------------------------------------|--|--|---|------------------------------|---|--------------------------------------|---------------------------------|---------------------------------------|---------------------------------|---------------------------------|-----------------------------------|
| | | I | | | | 5-11-4 | | | | | ļ | |
| LOADING (psf) TCLL (roof) 2 Snow (Pf/Pg) 20.8/30 TCDL BCLL BCDL 1 | 5.0 F 0.0 F 7.0 L 0.0 * C | PACING- Plate Grip DOL umber DOL Rep Stress Incr Code IRC2015/TF | 2-0-0 1.15 1.15 YES Pl2014 | CSI . TC BC WB Matri | 0.16 0.16 0.00 x-MP | DEFL. Vert(LL) Vert(CT) Horz(CT) Wind(LL) | in -0.02 -0.07 0.00 0.01 | (loc) 4-7 4-7 3 4-7 | l/defl >999 >993 n/a >999 | L/d 240 180 n/a 360 | PLATES MT20 Weight: 13 lb | GRIP 220/195 FT = 8% |
| LUMBER- | | | | | В | RACING- | | | | | | |

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 DF No.1&Btr G BOT CHORD 2x4 DF No.1&Btr G

REACTIONS. (size) 3=Mechanical, 2=0-5-8, 4=Mechanical

Max Horz 2=56(LC 14)

Max Uplift 2=-56(LC 14)

Max Grav 3=117(LC 2), 2=165(LC 2), 4=91(LC 7)

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

NOTES-

- 1) Wind: ASCE 7-10; Vult=140mph Vasd=111mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2) 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
- 2) TCLL: ASCE 7-10; Pr=25.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=30.0 psf (ground snow); Pf=20.8 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.8 psf on overhangs non-concurrent with other live loads.
- 5) Plates checked for a plus or minus 4 degree rotation about its center.
- 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) A plate rating reduction of 20% has been applied for the green lumber members.
- 9) Refer to girder(s) for truss to truss connections.
- 10) One RT7 MiTek 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.
- 11) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidlines.
- 12) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- 1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)
- Vert: 1-3=-56, 4-5=-20 Concentrated Loads (lb) Vert: 8=-3(F) 9=-44(F)



Structural wood sheathing directly applied or 1-10-3 oc purlins.

Rigid ceiling directly applied or 10-0-0 oc bracing.

RENEWAL DATE: 12-31-2023 January 5,2022

MiTek 250 Klug Circle Corona, CA 92880



| | | | 5-11-4 | | |
|---|---|--|--|---|--|
| | I | | 5-11-4 | | l |
| Plate Offsets (X,Y) [2:0-0-6, | .0-0-1] | | | | |
| LOADING (psf) TCLL (roof) 25.0 Snow (Pf/Pg) 20.8/30.0 TCDL 7.0 BCLL 0.0 * BCDL 10.0 * | SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2015/TPI2014 | CSI. TC 0.16 BC 0.18 WB 0.00 Matrix-MP | DEFL. in (loc) Vert(LL) -0.03 4-7 Vert(CT) -0.10 4-7 Horz(CT) 0.00 2 Wind(LL) 0.02 4-7 | l/defl L/d >999 240 >708 180 n/a n/a >999 360 | PLATES GRIP MT20 220/195 Weight: 16 lb FT = 8% |

TOP CHORD 2x4 DF No.1&Btr G BOT CHORD 2x4 DF No.1&Btr G BRACING-TOP CHORD

 TOP CHORD
 Structural wood sheathing directly applied or 3-10-3 oc purlins.

 BOT CHORD
 Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 3=Mechanical, 2=0-5-8, 4=Mechanical

Max Horz 2=89(LC 14) Max Uplift 3=-40(LC 14), 2=-51(LC 14)

Max Grav 3=118(LC 2), 2=251(LC 2), 4=97(LC 7)

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

NOTES-

- Wind: ASCE 7-10; Vult=140mph Vasd=111mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2) 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
- 2) TCLL: ASCE 7-10; Pr=25.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=30.0 psf (ground snow); Pf=20.8 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.8 psf on overhangs non-concurrent with other live loads.
- 5) Plates checked for a plus or minus 4 degree rotation about its center.
- 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) A plate rating reduction of 20% has been applied for the green lumber members.
- 9) Refer to girder(s) for truss to truss connections.
- 10) One RT7 MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 3 and 2. This connection is for uplift only and does not consider lateral forces.



RENEWAL DATE: 12-31-2023 January 5,2022





| F | n | R | c | F | 2 |
|---|---|---|---|---|---|

TCDI

BCLL

BCDL

LUMBER-

TOP CHORD

BOT CHORD

REACTIONS.

Max Grav 3=163(LC 19), 2=314(LC 2), 4=106(LC 7)

Max Uplift 3=-73(LC 14), 2=-59(LC 14)

Max Horz 2=122(LC 14)

70

0.0

2x4 DF No.1&Btr G

2x4 DF No.1&Btr G

10.0

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

(size) 3=Mechanical, 2=0-5-8, 4=Mechanical

Lumber DOL

Rep Stress Incr

Code IRC2015/TPI2014

NOTES-

1) Wind: ASCE 7-10; Vult=140mph Vasd=111mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2) 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

1.15

YES

BC

WB

Matrix-MP

0.25

0.00

Vert(CT)

Horz(CT)

Wind(LL)

BRACING-

TOP CHORD

BOT CHORD

-0.15

0.00

0.06

4-7

4-7

2

>486

>999

n/a

Rigid ceiling directly applied or 10-0-0 oc bracing.

180

n/a

360

Structural wood sheathing directly applied or 5-10-3 oc purlins.

- 2) TCLL: ASCE 7-10; Pr=25.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=30.0 psf (ground snow); Pf=20.8 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.8 psf on overhangs non-concurrent with other live loads.
- 5) Plates checked for a plus or minus 4 degree rotation about its center.
- 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) A plate rating reduction of 20% has been applied for the green lumber members.
- 9) Refer to girder(s) for truss to truss connections.
- 10) One RT7 MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 3 and 2. This connection is for uplift only and does not consider lateral forces.



Weight: 19 lb

FT = 8%

RENEWAL DATE: 12-31-2023 January 5,2022





| | | 5-11-4 | | 1 | | | | |
|---|---|--|---|--|---------------------------------------|---------------------------------|---------------------------------|-----------------------------------|
| LOADING (psf) TCLL (roof) 25.0 Snow (Pf/Pg) 20.8/30.0 TCDL 7.0 BCLL 0.0 BCDL 10.0 | SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2015/TPI2014 | CSI. TC 0.36 BC 0.27 WB 0.00 Matrix-MP | DEFL. Vert(LL) -(Vert(CT) -(Horz(CT) (Wind(LL) (| in (loc) 0.05 5-8 0.16 5-8 0.00 2 0.06 5-8 | l/defl >999 >452 n/a >999 | L/d 240 180 n/a 360 | PLATES MT20 Weight: 22 lb | GRIP 220/195 FT = 8% |

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 DF No.1&Btr G BOT CHORD 2x4 DF No.1&Btr G

REACTIONS. All bearings Mechanical except (jt=length) 2=0-5-8, 3=0-3-3.

(lb) - Max Horz 2=155(LC 14)

Max Uplift All uplift 100 lb or less at joint(s) 4, 2 except 3=-106(LC 14)

Max Grav All reactions 250 lb or less at joint(s) 4, 5, 3 except 2=322(LC 2)

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

NOTES-

- Wind: ASCE 7-10; Vult=140mph Vasd=111mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2) 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
- 2) TCLL: ASCE 7-10; Pr=25.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=30.0 psf (ground snow); Pf=20.8 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.8 psf on overhangs non-concurrent with other live loads.
- 5) Plates checked for a plus or minus 4 degree rotation about its center.
- 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) A plate rating reduction of 20% has been applied for the green lumber members.
- 9) Refer to girder(s) for truss to truss connections.
- 10) One RT7 MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 4, 2, and 3. This connection is for uplift only and does not consider lateral forces.
- 11) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 3.



Structural wood sheathing directly applied or 5-11-4 oc purlins.

Rigid ceiling directly applied or 10-0-0 oc bracing.

RENEWAL DATE: 12-31-2023 January 5,2022





| Plate Offsets (X.Y | [2:0-0-6.0-0-10], [3:0-3-0.0-0-1] | |
|--------------------|-----------------------------------|--|

| Tiale Olisels (X, T) [2.0-0- | 0,0-0-10], [0.0-0-0,0-0-1] | | | | | | | |
|---|--|-----------------------------------|--|----------------------------------|------------------------|-------------------|----------------|------------------------|
| LOADING (psf) TCLL (roof) 25.0 Snow (Pf/Pg) 20.8/30.0 TCDI 7.0 | SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 | CSI. TC 0.59 BC 0.00 | DEFL. Vert(LL) -0 Vert(CT) -0 | in (loc) 0.16 3-4 0.26 2-3 | l/defl >402 >392 | L/d 240 180 | PLATES MT20 | GRIP 220/195 |
| BCLL 0.0 * BCDL 10.0 | Rep Stress Incr NO Code IRC2015/TPI2014 | WB 0.00 Matrix-MP | Horz(CT) -0 Wind(LL) 0 |).00 4).13 2-3 | n/a >798 | n/a 360 | Weight: 37 lb | FT = 8% |

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LUMBER-
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TOP CHORD 2x4 DF No.1&Btr G

BRACING-TOP CHORD BOT CHORD

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

REACTIONS. (Ib/size) 4=153/Mechanical, 2=353/0-7-4, 3=477/0-4-8 Max Horz 2=254(LC 12) Max Uplift 4=-90(LC 12), 2=-95(LC 12), 3=-295(LC 12) Max Grav 4=232(LC 16), 2=401(LC 2), 3=544(LC 2)

FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown. TOP CHORD 2-5=-258/67

NOTES-

- Wind: ASCE 7-10; Vult=140mph Vasd=111mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-10; Pr=25.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=30.0 psf (ground snow); Pf=20.8 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10

3) Unbalanced snow loads have been considered for this design.

- 4) Plates checked for a plus or minus 4 degree rotation about its center.
- 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) A plate rating reduction of 20% has been applied for the green lumber members.
- 8) Refer to girder(s) for truss to truss connections.
- 9) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 10) One RT7 MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 4, 2, and 3. This connection is for uplift only and does not consider lateral forces.
- 11) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 3.
- 12) "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidlines.
- 13) 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: 1-4=-56

Concentrated Loads (lb)

Vert: 3=-62(B) 5=-37(B) 6=-25(F=-1, B=-24)



RENEWAL DATE: 12-31-2023 January 5,2022

250 Klug Circle Corona, CA 92880



| LOADING (psf) TCLL (roof) Snow (Pf/Pg) 20 | 25.0).8/30.0 | SPACING- Plate Grip DOL | 2-0-0 1.15 | CSI. TC | 0.59 | DEFL. Vert(LL) | in -0.16 | (loc) 3-4 | I/defl >402 | L/d 240 | PLATES MT20 | GRIP 220/195 |
|---|----------------------|------------------------------------|---------------|-------------|----------------------|--------------------|----------------------------|-----------------|---------------------|------------|----------------|------------------------|
| TCDL BCLL BCDL | 7.0 0.0 * 10.0 | Rep Stress Incr Code IRC2015/TP | NO 12014 | WB Matri | 0.00 0.00 x-MP | Horz(CT Wind(LL | -0.26) -0.00) 0.13 | 2-3 4 2-3 | >392 n/a >798 | n/a 360 | Weight: 37 lb | FT = 8% |

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 DF No.1&Btr G

REACTIONS. (lb/size) 4=217/Mechanical, 2=353/0-7-4, 3=477/0-4-8 Max Horz 2=254(LC 12) Max Uplift 4=-146(LC 12), 2=-95(LC 12), 3=-295(LC 12) Max Grav 4=275(LC 16), 2=401(LC 2), 3=544(LC 2)

FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown. TOP CHORD 2-5=-258/67

NOTES-

- Wind: ASCE 7-10; Vult=140mph Vasd=111mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-10; Pr=25.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=30.0 psf (ground snow); Pf=20.8 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10

3) Unbalanced snow loads have been considered for this design.

4) Plates checked for a plus or minus 4 degree rotation about its center.

- 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) A plate rating reduction of 20% has been applied for the green lumber members.
- 8) Refer to girder(s) for truss to truss connections.
- 9) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 10) One RT7 MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 4, 2, and 3. This connection is for uplift only and does not consider lateral forces.
- 11) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 3.
- 12) "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidlines.
- 13) 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: 1-4=-56 Concentrated Loads (lb)

Vert: 4=-64(B) 3=-62(B) 5=-37(B) 6=-25(F=-1, B=-24)



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

Rigid ceiling directly applied or 10-0-0 oc bracing.

RENEWAL DATE: 12-31-2023 January 5,2022

250 Klug Circle Corona, CA 92880



| ~ | • | | - |
|----|----|---|---|
| 8- | 4- | 1 | 2 |

| | | 0=4=12 | | | | | | |
|--|--|--|---|---|---------------------------------------|---------------------------------|---------------------------------|-----------------------------------|
| Plate Offsets (X,Y) [2:0-1-11 | [,0-0-8], [3:0-3-0,0-0-5] | | | | | | | |
| LOADING (psf) TCLL (roof) 25.0 Snow (Pf/Pg) 20.8/30.0 TCDL 7.0 BCLL 0.0 * BCDL 10.0 | SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr NO Code IRC2015/TPI2014 | CSI. TC 0.41 BC 0.00 WB 0.00 Matrix-MP | DEFL. Vert(LL) Vert(CT) Horz(CT) Wind(LL) | in (loc) -0.13 2-3 -0.25 2-3 -0.00 4 0.10 2-3 | l/defl >790 >403 n/a >992 | L/d 240 180 n/a 360 | PLATES MT20 Weight: 31 lb | GRIP 220/195 FT = 8% |

TOP CHORD

BOT CHORD

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LUMBER-
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TOP CHORD 2x4 DF No.1&Btr G

REACTIONS. (lb/size) 4=75/Mechanical, 2=362/0-7-6, 3=430/0-4-8 Max Horz 2=157(LC 12) Max Uplift 4=-39(LC 12), 2=-127(LC 12), 3=-198(LC 12) Max Grav 4=104(LC 16), 2=406(LC 2), 3=460(LC 16)

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

NOTES-

- 1) Wind: ASCE 7-10; Vult=140mph Vasd=111mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-10; Pr=25.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=30.0 psf (ground snow); Pf=20.8 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) Plates checked for a plus or minus 4 degree rotation about its center.
- 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) A plate rating reduction of 20% has been applied for the green lumber members.
- 8) Refer to girder(s) for truss to truss connections.
- 9) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 10) One RT7 MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 4, 2, and 3. This connection is for uplift only and does not consider lateral forces.
- 11) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 3.
- 12) "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidlines.
- 13) 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: 1-4=-56 Concentrated Loads (lb)





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

Rigid ceiling directly applied or 10-0-0 oc bracing.

RENEWAL DATE: 12-31-2023 January 5,2022

MiTek 250 Klug Circle Corona, CA 92880



| | | | 1-11-4 | | | -1 | | | |
|---|---|---------------------------------------|---|-----------------------------|----------------------|-------------------------------|--------------------------|----------------|------------------------|
| LOADING (psf) TCLL (roof) 25.0 Snow (Pf/Pg) 20.8/30.0 TCDL 7.0 BCLL 0.0 * | SPACING-2-0-0Plate Grip DOL1.15Lumber DOL1.15Rep Stress IncrYES | CSI. TC 0.07 BC 0.03 WB 0.00 | DEFL. Vert(LL) Vert(CT) Horz(CT) | in 0.00 -0.00 0.00 | (loc) 7 7 3 | l/defl >999 >999 n/a | L/d 240 180 n/a | PLATES MT20 | GRIP 220/195 |
| BCDL 10.0 | Code IRC2015/TPI2014 | Matrix-MP | Wind(LL) | -0.00 | 7 | >999 | 360 | Weight: 8 lb | FT = 8% |
| LUMBER- | | BR | ACING- | | | | | | |

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 DF No.1&Btr G BOT CHORD 2x4 DF No.1&Btr G

REACTIONS. (size) 3=Mechanical, 2=0-5-8, 4=Mechanical

Max Horz 2=75(LC 12)

Max Uplift 3=-19(LC 12), 2=-56(LC 12)

Max Grav 3=43(LC 22), 2=159(LC 2), 4=32(LC 5)

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

NOTES-

- 1) Wind: ASCE 7-10; Vult=140mph Vasd=111mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2) 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
- 2) TCLL: ASCE 7-10; Pr=25.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=30.0 psf (ground snow); Pf=20.8 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10
- 3) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.8 psf on overhangs non-concurrent with other live loads.
- 4) Plates checked for a plus or minus 4 degree rotation about its center.
- 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) A plate rating reduction of 20% has been applied for the green lumber members.
- 8) Refer to girder(s) for truss to truss connections.
- 9) One RT7 MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 3 and 2. This connection is for uplift only and does not consider lateral forces.



Structural wood sheathing directly applied or 1-10-3 oc purlins.

Rigid ceiling directly applied or 10-0-0 oc bracing.

RENEWAL DATE: 12-31-2023 January 5,2022





| | | 1-11-4 | | | | | | |
|---|---|---------------------------------------|---|--------------------------|-------------------------------|--------------------------|----------------|---------------------|
| LOADING (psf) TCLL (roof) 25.0 Snow (Pf/Pg) 20.8/30.0 TCDL 7.0 BCLL 0.0 * | SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES | CSI. TC 0.10 BC 0.11 WB 0.00 | DEFL. ir Vert(LL) -0.00 Vert(CT) -0.00 Horz(CT) 0.00 | n (loc) 7 4-7 3 | l/defl >999 >999 n/a | L/d 240 180 n/a | PLATES MT20 | GRIP 220/195 |
| BCDL 10.0 | Code IRC2015/TPI2014 | Matrix-MP | vvind(LL) -0.00 | / | >999 | 360 | vveight: 11 lb | FT = 8% |

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 DF No.1&Btr G BOT CHORD 2x4 DF No.1&Btr G

REACTIONS. (size) 3=Mechanical, 2=0-5-8, 4=Mechanical Max Horz 2=118(LC 12) Max Uplift 3=-55(LC 12), 2=-44(LC 12), 4=-15(LC 12)

Max Grav 3=91(LC 22), 2=191(LC 2), 4=66(LC 22)

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

NOTES-

- 1) Wind: ASCE 7-10; Vult=140mph Vasd=111mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2) 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
- 2) TCLL: ASCE 7-10; Pr=25.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=30.0 psf (ground snow); Pf=20.8 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10
- 3) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.8 psf on overhangs non-concurrent with other live loads.
- 4) Plates checked for a plus or minus 4 degree rotation about its center.
- 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) A plate rating reduction of 20% has been applied for the green lumber members.
- 8) Refer to girder(s) for truss to truss connections.
- 9) One RT7 MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 3, 2, and 4. This connection is for uplift only and does not consider lateral forces.



Structural wood sheathing directly applied or 1-11-4 oc purlins.

Rigid ceiling directly applied or 10-0-0 oc bracing.

RENEWAL DATE: 12-31-2023 January 5,2022





| | | | 1-11-4 | 1 | |
|---|---|--|--|--|---|
| LOADING (psf) TCLL (roof) 25.0 Snow (Pf/Pg) 20.8/30.0 TCDL 7.0 BCLL 0.0 * BCDL 10.0 | SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2015/TPI2014 | CSI. TC 0.07 BC 0.02 WB 0.00 Matrix-MP | DEFL. in (l Vert(LL) 0.00 Vert(CT) -0.00 Horz(CT) -0.00 Wind(LL) -0.00 | loc) l/defl L/d 7 >999 240 7 >999 180 2 n/a n/a 7 >999 360 | PLATES GRIP MT20 220/195 Weight: 7 lb FT = 8% |

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 DF No.1&Btr G BOT CHORD 2x4 DF No.1&Btr G

REACTIONS. (size) 3=Mechanical, 2=0-5-8, 4=Mechanical

Max Horz 2=56(LC 14)

Max Uplift 3=-14(LC 14), 2=-60(LC 14) Max Grav 3=41(LC 2), 2=159(LC 2), 4=31(LC 7)

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

NOTES-

- Wind: ASCE 7-10; Vult=140mph Vasd=111mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2) 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
- 2) TCLL: ASCE 7-10; Pr=25.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=30.0 psf (ground snow); Pf=20.8 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.8 psf on overhangs non-concurrent with other live loads.
- 5) Plates checked for a plus or minus 4 degree rotation about its center.
- 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) A plate rating reduction of 20% has been applied for the green lumber members.
- 9) Refer to girder(s) for truss to truss connections.
- One RT7 MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 3 and 2. This connection is for uplift only and does not consider lateral forces.



Structural wood sheathing directly applied or 1-10-3 oc purlins.

Rigid ceiling directly applied or 10-0-0 oc bracing.

RENEWAL DATE: 12-31-2023 January 5,2022





| | | 1-11-4 | | | | | | |
|--|---|--|---|---|---|---------------------------------|---------------------------------|-----------------------------------|
| LOADING (psf) TCLL (roof) 25.0 Snow (Pf/Pg) 20.8/30.0 TCDL 7.0 BCLL 0.0 * BCDL 10.0 | SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2015/TPI2014 | CSI. TC 0.09 BC 0.10 WB 0.00 Matrix-MP | DEFL. Vert(LL) Vert(CT) Horz(CT) Wind(LL) | in (lo -0.00 -0.00 4 -0.00 0.00 | c) I/defl 7 >999 -7 >999 3 n/a 7 >999 | L/d 240 180 n/a 360 | PLATES MT20 Weight: 10 lb | GRIP 220/195 FT = 8% |

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 DF No.1&Btr G BOT CHORD 2x4 DF No.1&Btr G

REACTIONS. (size) 3=Mechanical, 2=0-5-8, 4=Mechanical Max Horz 2=89(LC 14) Max Uplift 3=-44(LC 14), 2=-56(LC 14), 4=-13(LC 14)

Max Grav 3=87(LC 2), 2=188(LC 2), 4=69(LC 2)

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

NOTES-

- Wind: ASCE 7-10; Vult=140mph Vasd=111mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2) 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 7-10; Pr=25.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=30.0 psf (ground snow); Pf=20.8 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.8 psf on overhangs non-concurrent with other live loads.
- 5) Plates checked for a plus or minus 4 degree rotation about its center.
- 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) A plate rating reduction of 20% has been applied for the green lumber members.
- 9) Refer to girder(s) for truss to truss connections.
- One RT7 MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 3, 2, and 4. This connection is for uplift only and does not consider lateral forces.



Structural wood sheathing directly applied or 1-11-4 oc purlins.

Rigid ceiling directly applied or 10-0-0 oc bracing.

RENEWAL DATE: 12-31-2023 January 5,2022



