

Trenco 818 Soundside Rd Edenton, NC 27932

Re: 2000367-2000367A 2307- JRT -DAKOTA II

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

Pages or sheets covered by this seal: I41377982 thru I41378003

My license renewal date for the state of North Carolina is December 31, 2020.

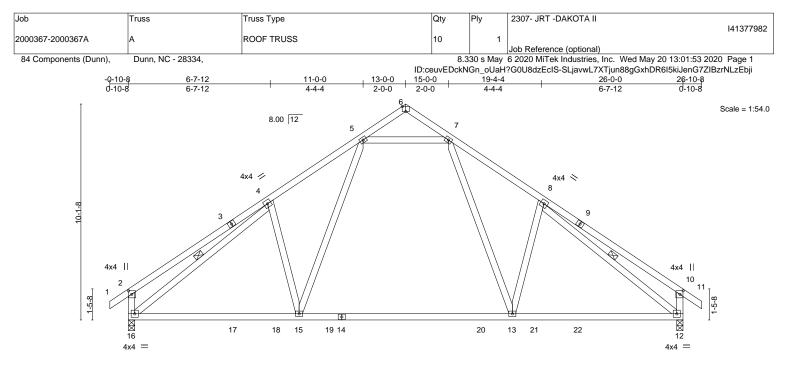
North Carolina COA: C-0844



May 21,2020

Sevier, Scott

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.



| | <u>8-0-0</u> 8-0-0 | | <u>18-0-0</u> 10-0-0 | | | 26-0-0 8-0-0 | 4 |
|--|---|--|--|----------------------|--|---|------------------------------------|
| Plate Offsets (X,Y) [2 | 2:0-2-0,0-1-12], [6:0-2-0,Edge], [10:0-2- | 0,0-1-12] | | | | | |
| LOADING (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0 | SPACING-2-0-0Plate Grip DOL1.15Lumber DOL1.15Rep Stress IncrYESCodeIRC2015/TPI2014 | CSI. TC 0.64 BC 0.76 WB 0.44 Matrix-S | Vert(LL) -0.39 | 13-15 >7 13-15 >5 | defl L/d 98 240 551 180 n/a n/a | PLATES MT20 Weight: 164 lb | GRIP 244/190 FT = 20% |
| Max Upl | No.1 No.3 | | BRACING- TOP CHORD BOT CHORD WEBS | except end | l verticals. g directly applied | rectly applied or 4-9-12 or 10-0-0 oc bracing. 4-16, 8-12 | oc purlins, |
| TOP CHORD 2-4=-3 10-12= BOT CHORD 15-16= WEBS 7-13=- | omp./Max. Ten All forces 250 (lb) or 81/239, 4-5=-1323/338, 7-8=-1323/338 -402/228 -130/1191, 13-15=-11/927, 12-13=-82/ 152/617, 8-13=-265/281, 5-15=-151/61 1196/24, 5-7=-791/286 | 8-10=-381/239, 2-16=-40 1056 | | | | | |

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

2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone 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) All plates are 3x4 MT20 unless otherwise indicated.

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

5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide

will fit between the bottom chord and any other members, with BCDL = 10.0psf.

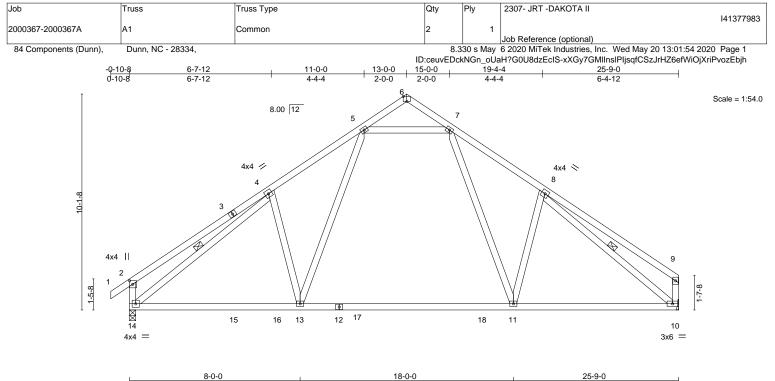
6) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 16 and 12. This connection is for uplift only and does not consider lateral forces.

7) ATTIC SPACE SHOWN IS DESIGNED AS UNINHABITABLE.



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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 sand truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.





| late Offsets (X,Y) [2:0-2-0,0-1-12], [6:0-2-0,Edge] | | | | | | |
|---|-----------|------------------|-------------|---|---|-------------|
| OADING (psf) SPACING- 2-0-0 | CSI. | DEFL. | in (loc) | l/defl L/d | PLATES | GRIP |
| CLL 20.0 Plate Grip DOL 1.15 | TC 0.63 | Vert(LL) | -0.42 11-13 | >728 240 | MT20 | 244/190 |
| CDL 10.0 Lumber DOL 1.15 | BC 0.77 | Vert(CT) | -0.59 11-13 | >514 180 | | |
| BCLL 0.0 * Rep Stress Incr YES | WB 0.44 | Horz(CT) | 0.03 10 | n/a n/a | L | |
| 3CDL 10.0 Code IRC2015/TPI2014 | Matrix-MS | | | | Weight: 161 | lb FT = 20% |
| 3OT CHORD2x4 SP No.1WEBS2x4 SP No.3 | | BOT CHOR WEBS | D Rigid ce | end verticals. eiling directly a at midpt | pplied or 10-0-0 oc bracing 4-14, 8-10 | |
| REACTIONS. (size) 14=0-3-8, 10=Mechanical | | | | | | |
| Max Horz 14=270(LC 11) | | | | | | |
| Max Uplift 14=-125(LC 12), 10=-103(LC 13) | | | | | | |
| Max Grav 14=1142(LC 19), 10=1049(LC 20) | | | | | | |

| FUNCES. (ID) - | Max. Comp./Max. Ten All forces 250 (b) of less except when shown. |
|----------------|--|
| TOP CHORD | 2-4=-369/232, 4-5=-1291/330, 7-8=-1237/329, 8-9=-255/166, 2-14=-392/223, |
| | 9-10=-267/148 |
| BOT CHORD | 13-14=-144/1158, 11-13=-43/883, 10-11=-123/975 |
| WEBS | 4-13=-262/277, 5-13=-144/626, 7-11=-140/526, 8-11=-236/271, 4-14=-1174/29, |
| | 8-10=-1218/107, 5-7=-762/287 |

NOTES-

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

2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone 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) All plates are 3x4 MT20 unless otherwise indicated.

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

5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.

6) Refer to girder(s) for truss to truss connections.

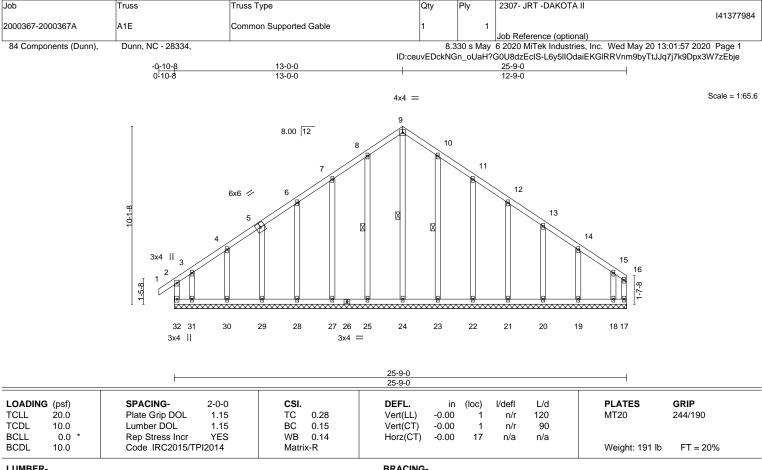
 Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 10=103.

One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 14. This
connection is for uplift only and does not consider lateral forces.



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LUMBER-

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

WEBS

Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals. Rigid ceiling directly applied or 6-0-0 oc bracing, Except: 10-0-0 oc bracing: 31-32,30-31,29-30. 9-24, 8-25, 10-23 1 Row at midpt

REACTIONS. All bearings 25-9-0.

(lb) · Max Horz 32=270(LC 9)

Max Uplift All uplift 100 lb or less at joint(s) 25, 27, 28, 29, 30, 23, 22, 21, 20, 19 except 32=-281(LC 8), 17=-302(LC 11), 31=-282(LC 9), 18=-268(LC 8)

Max Grav All reactions 250 lb or less at joint(s) 25, 27, 28, 29, 30, 23, 22, 21, 20, 19 except 32=335(LC 9), 17=306(LC 8), 24=270(LC 13), 31=332(LC 10), 18=349(LC 11)

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

TOP CHORD 7-8=-221/274, 8-9=-265/324, 9-10=-265/324, 10-11=-222/274

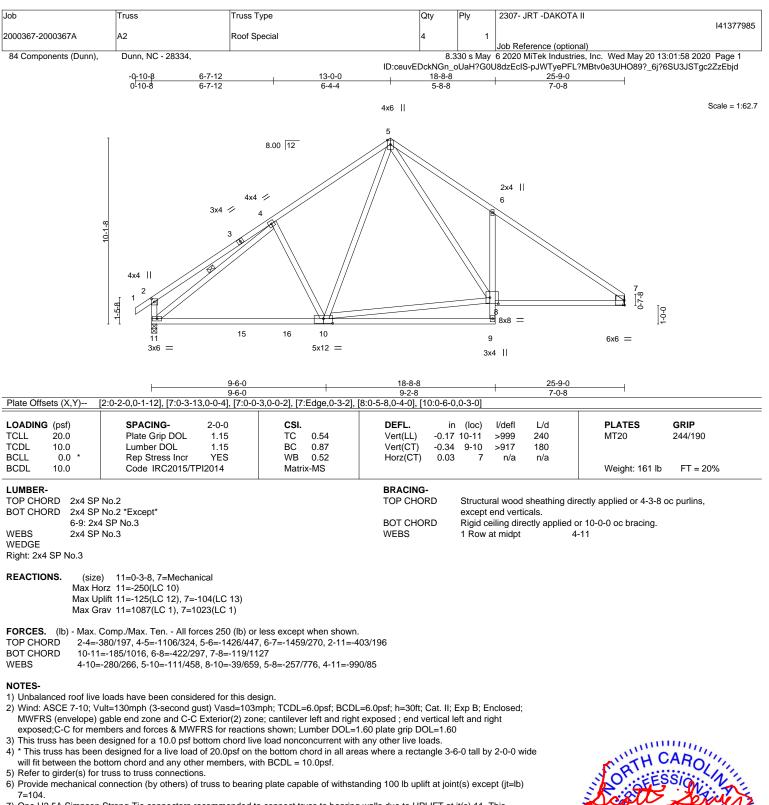
WEBS 9-24=-291/175

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone 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) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) All plates are 2x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 6) 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. 7)
- 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 10) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 32, 17, 25, 27, 28, 29, 30, 31, 23, 22, 21, 20, 19, and 18. This connection is for uplift only and does not consider lateral forces.



🙏 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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 **ANSUTPIT Quality Criteria**, **DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

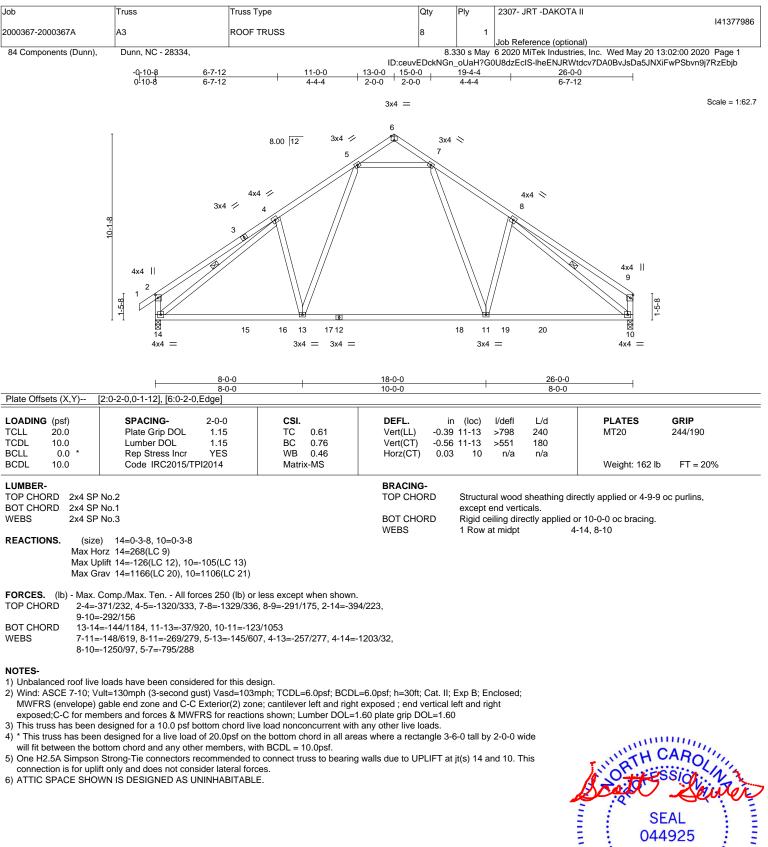


One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 11. This
connection is for uplift only and does not consider lateral forces.



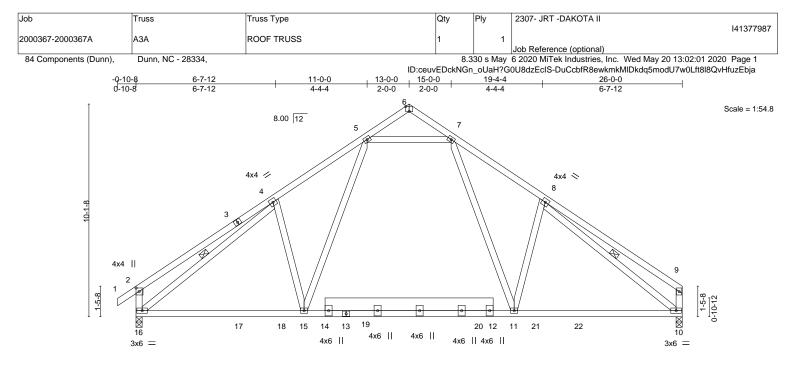
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| | 8-0-0 | | <u>18-0-0</u> 10-0-0 | | <u>26-0-0</u> 8-0-0 | -1 |
|--|---|--|-------------------------|--|----------------------------------|------------------------------------|
| Plate Offsets (X,Y) | [2:0-2-0,0-1-12], [6:0-2-0,Edge] | | 1000 | | 000 | |
| LOADING (psf) TCLL 20.0 TCDL 10.0 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 0.61 BC 0.84 WB 0.44 Matrix-MS | Vert(LL) -0.1 | n (loc) l/defl L/d 7 15-16 >999 240 4 15-16 >999 180 3 10 n/a n/a | PLATES MT20 Weight: 187 lb | GRIP 244/190 FT = 20% |
| BCDL 10.0 Code IRC2015/TP12014 Matrix-MS LUMBER- TOP CHORD 2x4 SP No.2 BRACING- TOP CHORD TOP CHORD Structural wood sheathing directly applied or 4-10-6 oc purlins, except end verticals. BOT CHORD 2x4 SP No.2 *Except* 12-14: 2x8 SP No.3 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. WEBS 2x4 SP No.3 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. WEBS 1 Row at midpt 4-16, 8-10 | | | | | | |
| TOP CHORD 2-4= 9-10 BOT CHORD 15-7 WEBS 7-12 | . Comp./Max. Ten All forces 250 (lb) or 384/226, 4-5=-1282/338, 7-8=-1291/341)=-307/152 6=-147/1155, 11-15=-40/897, 10-11=-12(=-149/596, 8-11=-271/278, 5-15=-146/58)=-1179/109, 5-7=-772/291 | , 8-9=-319/169, 2-16=-412 6/1025 | · · · / | | | |

NOTES-

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

2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone 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) All plates are 3x4 MT20 unless otherwise indicated.

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

5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.

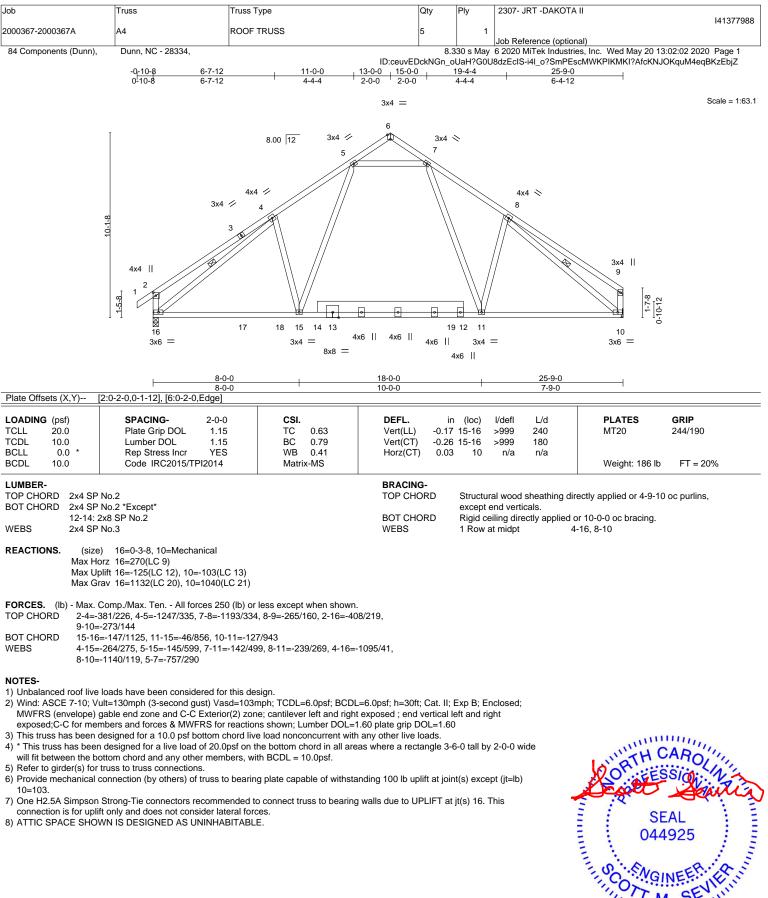
6) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 16 and 10. This connection is for uplift only and does not consider lateral forces.

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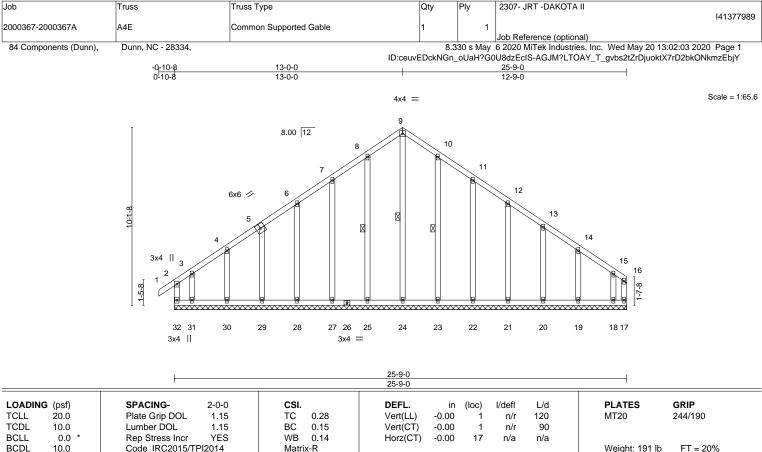




S mm May 21,2020

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| BCDL 1 | 0.0 | Code IRC2015/TPI2014 | Matrix-R | | | Weight: 191 lb | FI = 20 |
|------------------------|----------------------|----------------------|----------|-----------|--|---|-------------|
| LUMBER- | | | | BRACING- | | | |
| TOP CHORE BOT CHORE | | | | TOP CHORD | Structural wood shear except end verticals. | thing directly applied or 6-0-0 o | oc purlins, |
| WEBS OTHERS | 2x4 SP N 2x4 SP N | | | BOT CHORD | Rigid ceiling directly a 10-0-0 oc bracing: 31 | applied or 6-0-0 oc bracing, Ex -32,30-31,29-30. | xcept: |
| | | | | WEBS | 1 Row at midpt | 9-24, 8-25, 10-23 | |

REACTIONS. All bearings 25-9-0.

(lb) - Max Horz 32=270(LC 9)

Max Uplift All uplift 100 lb or less at joint(s) 25, 27, 28, 29, 30, 23, 22, 21, 20, 19 except 32=-281(LC 8), 17=-302(LC 11), 31=-282(LC 9), 18=-268(LC 8)

Max Grav All reactions 250 lb or less at joint(s) 25, 27, 28, 29, 30, 23, 22, 21, 20, 19 except 32=335(LC 9), 17=306(LC 8), 24=270(LC 13), 31=332(LC 10), 18=349(LC 11)

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

TOP CHORD 7-8=-221/274, 8-9=-265/324, 9-10=-265/324, 10-11=-222/274

WEBS 9-24=-291/175

NOTES-

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

2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone 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) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.

4) All plates are 2x4 MT20 unless otherwise indicated.

5) Gable requires continuous bottom chord bearing.

6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).

7) Gable studs spaced at 2-0-0 oc.

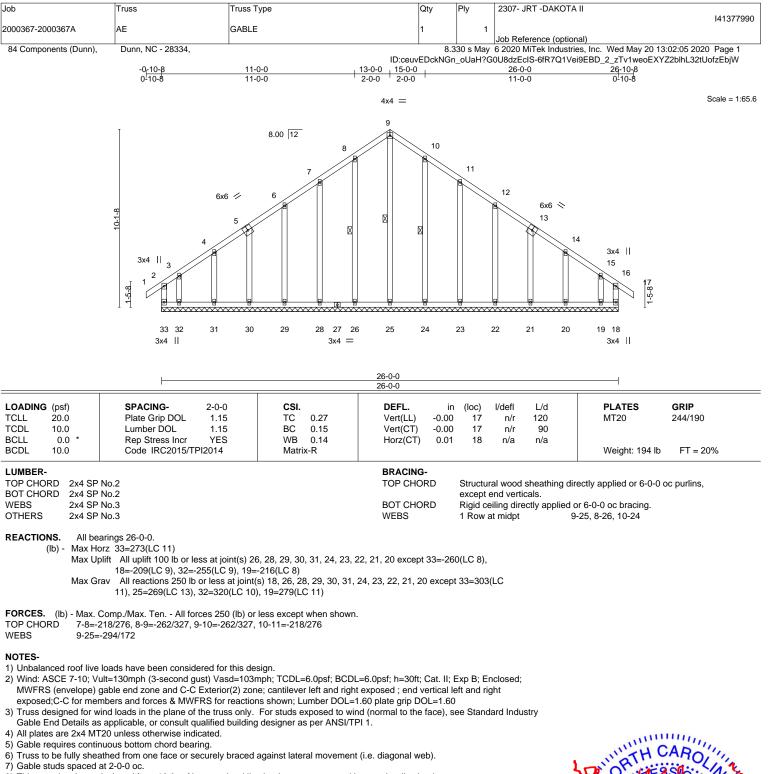
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

9) * This truss has been designed for a live load of 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.

SEAL 044925 MGINEER, HERLIN May 21,2020

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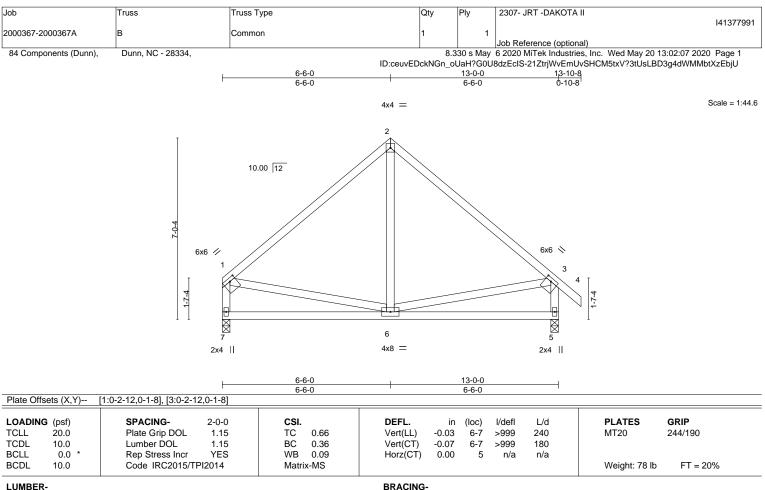
10) N/A

11) ATTIC SPACE SHOWN IS DESIGNED AS UNINHABITABLE.



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A MiTek Affiliate B18 Soundside Road Edenton, NC 27932



TOP CHORD

BOT CHORD

| UMBER- | |
|----------|-------------|
| OP CHORD | 2x4 SP No.2 |

2x4 SP No.2 BOT CHORD WEBS

2x4 SP No.3

REACTIONS. (size) 7=0-3-8, 5=0-3-8 Max Horz 7=-195(LC 10) Max Uplift 7=-42(LC 12), 5=-61(LC 13) Max Grav 7=506(LC 1), 5=572(LC 1)

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

TOP CHORD 1-2=-473/120, 2-3=-480/127, 1-7=-449/126, 3-5=-515/169

BOT CHORD 6-7=-187/265

NOTES-

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5) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 7 and 5. This connection is for uplift only and does not consider lateral forces.

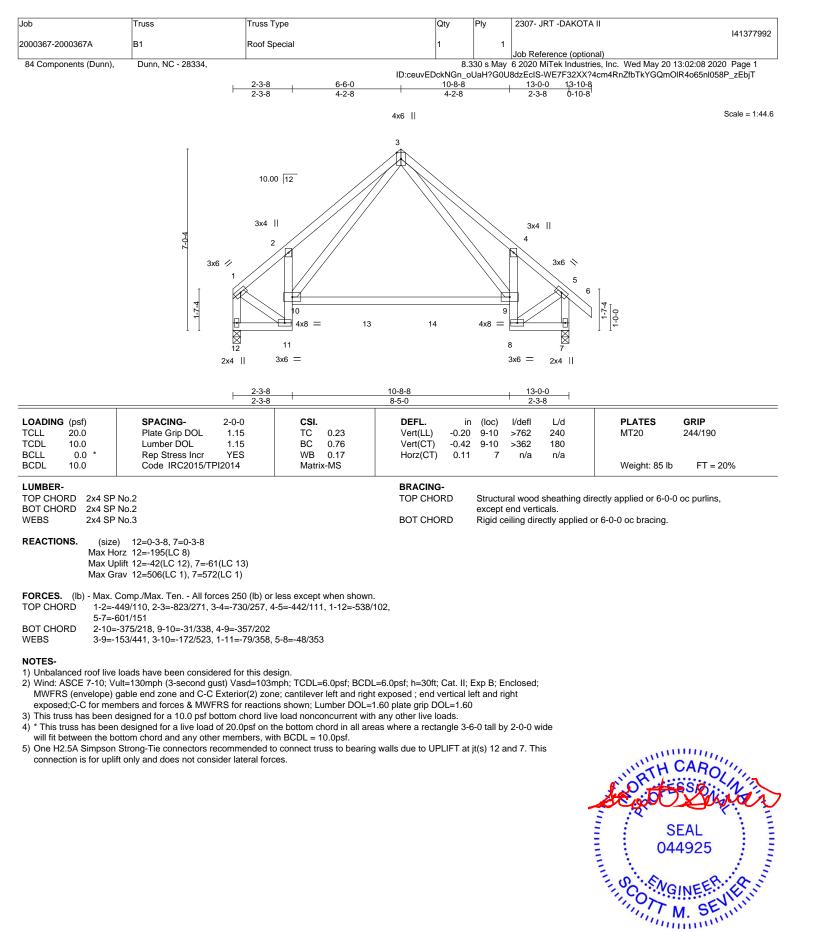


Structural wood sheathing directly applied or 6-0-0 oc purlins,

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

except end verticals.

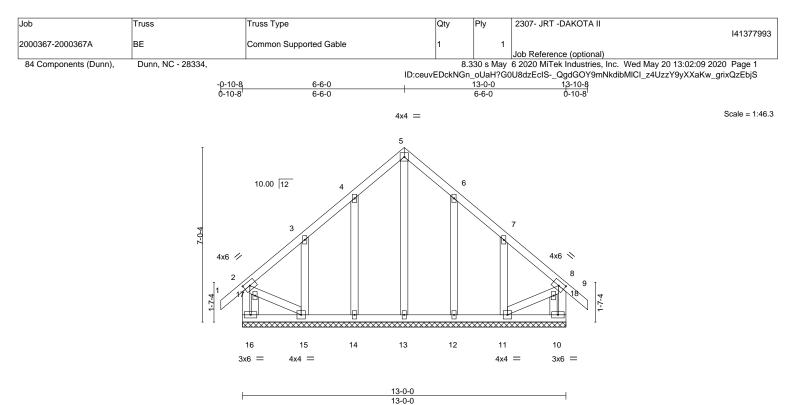
🙏 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before 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 **ANSUTPIT Quality Criteria**, **DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



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May 21,2020



| Plate Offs | ets (X,Y) | [2:0-2-14,0-2-0], [8:0-2-14 | 4,0-2-0] | | | | | | | | | |
|------------|-----------|-----------------------------|----------|-------|------|----------|-------|--------|--------|-----|---------------|----------|
| LOADING | (psf) | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
| TCLL | 20.0 | Plate Grip DOL | 1.15 | тс | 0.07 | Vert(LL) | -0.00 |) 9 | n/r | 120 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.05 | Vert(CT) | -0.00 | 9 | n/r | 90 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.10 | Horz(CT) | 0.00 | 11 | n/a | n/a | | |
| BCDL | 10.0 | Code IRC2015/TF | PI2014 | Matri | x-S | | | | | | Weight: 95 lb | FT = 20% |

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

REACTIONS. All bearings 13-0-0.

Max Horz 16=-202(LC 10) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 16, 10, 14, 12 except 15=-169(LC 12), 11=-165(LC 13) Max Grav All reactions 250 lb or less at joint(s) 16, 10, 13, 14, 15, 12, 11

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

NOTES-

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

2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone 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) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.

- 4) All plates are 2x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).

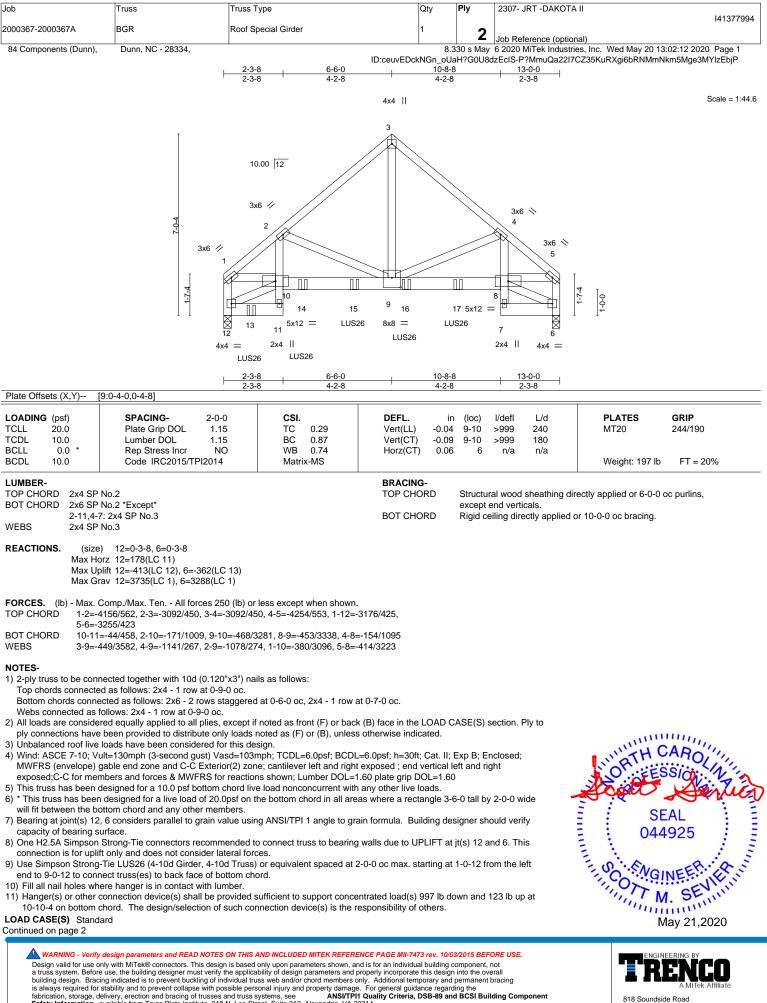
7) Gable studs spaced at 2-0-0 oc.

- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.



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fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Qua Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

| Job | Truss | Truss Type | Qty | Ply | 2307- JRT -DAKOTA II |
|-----------------------|-------------------|---------------------|---------|-----------|---|
| 2000367-2000367A | BGR | Roof Special Girder | 1 | • | 141377994 |
| | | | - | 2 | Job Reference (optional) |
| 84 Components (Dunn), | Dunn, NC - 28334, | | 8. | 330 s May | 6 2020 MiTek Industries, Inc. Wed May 20 13:02:12 2020 Page 2 |
| | | ID:ceuvEDo | kNGn_oU | aH?G0U8d | zEcIS-P?MmuQa22I7CZ35KuRXgi6bRNMmNkm5Mge3MYIzEbjP |

LOAD CASE(S) Standard

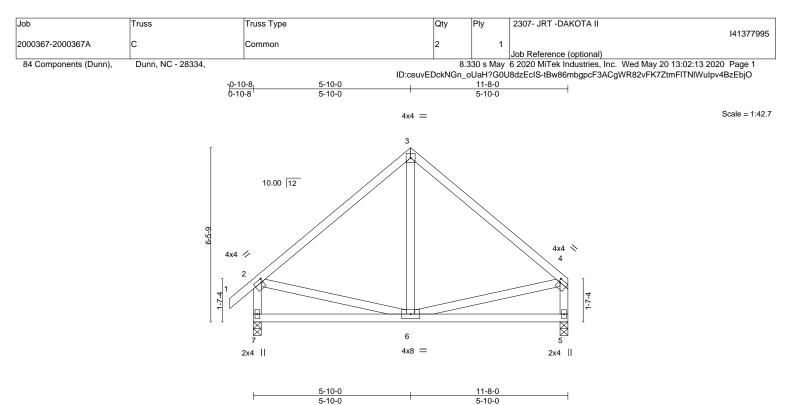
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-3=-60, 3-5=-60, 11-12=-20, 8-10=-20, 6-7=-20 Concentrated Loads (lb)

Vert: 8=-997(B) 13=-998(B) 14=-1003(B) 15=-1003(B) 16=-1003(B) 17=-1003(B)

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| Plate Off | sets (X,Y) | [2:0-0-12,0-1-8], [4:0-0-12,0-1-8] | | | | | | |
|-----------|------------|------------------------------------|-----------|----------------|-----|--------|-----|------------------------|
| LOADIN | u / | SPACING- 2-0-0 | CSI. | DEFL. ir | (/ | l/defl | L/d | PLATES GRIP |
| TCLL | 20.0 | Plate Grip DOL 1.15 | TC 0.50 | Vert(LL) -0.02 | | >999 | 240 | MT20 244/190 |
| TCDL | 10.0 | Lumber DOL 1.15 | BC 0.28 | Vert(CT) -0.05 | 5-6 | >999 | 180 | |
| BCLL | 0.0 * | Rep Stress Incr YES | WB 0.08 | Horz(CT) 0.00 | 5 | n/a | n/a | |
| BCDL | 10.0 | Code IRC2015/TPI2014 | Matrix-MS | | | | | Weight: 71 lb FT = 20% |

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD2x4 SP No.2BOT CHORD2x4 SP No.2WEBS2x4 SP No.3

REACTIONS. (size) 7=0-3-8, 5=0-3-8 Max Horz 7=181(LC 9)

Max Uplift 7=-56(LC 12), 5=-37(LC 13)

Max Grav 7=519(LC 1), 5=452(LC 1)

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

TOP CHORD 2-3=-422/118, 3-4=-415/112, 2-7=-468/160, 4-5=-401/117

NOTES-

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

2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone 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) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

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

5) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 7 and 5. This connection is for uplift only and does not consider lateral forces.



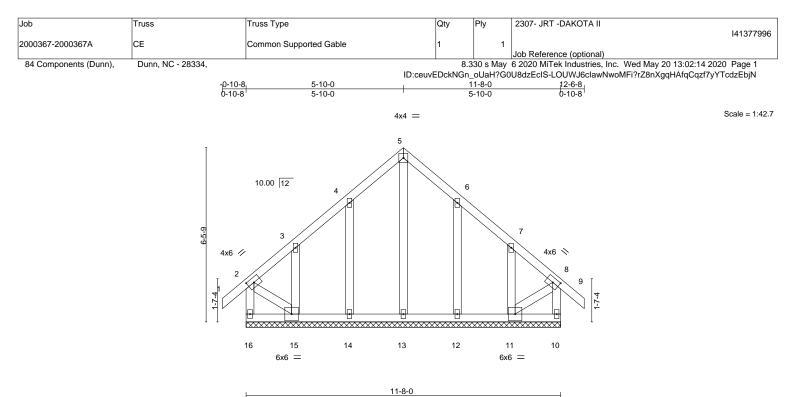
Structural wood sheathing directly applied or 6-0-0 oc purlins,

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

except end verticals.

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| Plate Offsets (X,Y) | [2:0-2-14,0-2-0], [8:0-2-14,0-2-0] | | 11-8-0 | | | | | |
|---------------------|------------------------------------|----------|----------------|-------|--------|-----|---------------|----------|
| LOADING (psf) | SPACING- 2-0-0 | CSI. | DEFL. ir | (loc) | l/defl | L/d | PLATES | GRIP |
| TCLL 20.0 | Plate Grip DOL 1.15 | TC 0.07 | Vert(LL) -0.00 | 9 | n/r | 120 | MT20 | 244/190 |
| FCDL 10.0 | Lumber DOL 1.15 | BC 0.04 | Vert(CT) -0.00 | 9 | n/r | 90 | | |
| BCLL 0.0 * | Rep Stress Incr YES | WB 0.08 | Horz(CT) 0.00 | 10 | n/a | n/a | | |
| BCDL 10.0 | Code IRC2015/TPI2014 | Matrix-S | | | | | Weight: 82 lb | FT = 20% |
| UMBER- | | 1 | BRACING- | | | | | |

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

REACTIONS. All bearings 11-8-0.

(lb) - Max Horz 16=188(LC 11)

Max Uplift All uplift 100 lb or less at joint(s) 16, 10, 14, 12 except 15=-159(LC 12), 11=-154(LC 13) Max Grav All reactions 250 lb or less at joint(s) 16, 10, 13, 14, 15, 12, 11

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

NOTES-

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

2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone 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

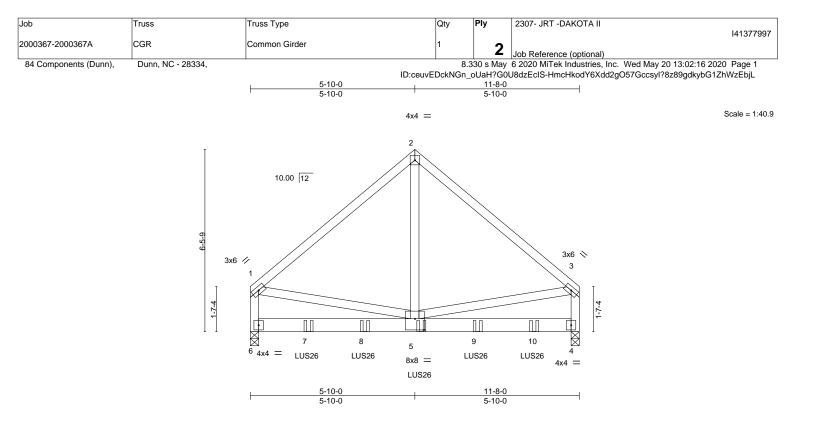
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.

- 4) All plates are 2x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 7) Gable studs spaced at 2-0-0 oc.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.



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| Plate Offsets (X,Y) | [5:0-4-0,0-4-12] | | | | | - | |
|---|--|---|---|-----------------------------------|---|---|------------------------------------|
| LOADING (psf) TCLL 20.0 TCDL 10.0 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 0.82 BC 0.88 WB 0.57 Matrix-MS | DEFL. ir Vert(LL) -0.05 Vert(CT) -0.10 Horz(CT) 0.00 | 5-6 5-6 | l/defl L/d >999 240 >999 180 n/a n/a | PLATES MT20 Weight: 156 lb | GRIP 244/190 FT = 20% |
| Max H Max U | No.2 | , | BRACING- TOP CHORD BOT CHORD | except e | nd verticals. | rectly applied or 6-0-0 or 10-0-0 oc bracing. | oc purlins, |
| TOP CHORD 1-2=- BOT CHORD 5-6=- | Comp./Max. Ten All forces 250 2517/350, 2-3=-2518/350, 1-6=-2 211/468, 4-5=-110/387 265/2762, 1-5=-198/1516, 3-5=-2 | 2052/302, 3-4=-2050/302 | n. | | | | |
| Top chords connecte Bottom chords conn- Webs connected as 2) All loads are conside ply connections have 3) Unbalanced roof live | nected together with 10d (0.120" ed as follows: 2x4 - 1 row at 0-9- ected as follows: 2x6 - 2 rows sta follows: 2x4 - 1 row at 0-9-0 oc. red equally applied to all plies, e been provided to distribute only loads have been considered for |) oc. ggered at 0-7-0 oc. xccept if noted as front (F) or ba loads noted as (F) or (B), unles this design. | ss otherwise indicated. | () | | NUNUTH C | SAROLINA SSION NOT |
| MWFRS (envelope) exposed;C-C for me 5) This truss has been 6) * This truss has been will fit between the b 7) Bearing at joint(s) 6, | ult=130mph (3-second gust) Vas gable end zone and C-C Exterio mbers and forces & MWFRS for designed for a 10.0 psf bottom c n designed for a live load of 20.0 ottom chord and any other memil 4 considers parallel to grain valu | (2) zone; cantilever left and rigl reactions shown; Lumber DOL= nord live load nonconcurrent will osf on the bottom chord in all ar ners. | ht exposed ; end vertical l =1.60 plate grip DOL=1.60 th any other live loads. reas where a rectangle 3- | eft and rig) 6-0 tall by 2 | ht | | AL 1925 |
| connection is for upl 9) Use Simpson Strong end to 10-0-12 to co | surface. Strong-Tie connectors recomme ft only and does not consider lat I-Tie LUS26 (4-10d Girder, 4-10d nnect truss(es) to back face of bu here hanger is in contact with lum | eral forces. Truss) or equivalent spaced at ottom chord. | • | | | Min N | NEER. IRT |

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| Job | Truss | Truss Type | Qty | Ply | 2307- JRT -DAKOTA II |
|-----------------------|-------------------|---------------|----------|----------|---|
| 2000367-2000367A | CGR | Common Girder | 1 | _ | 141377997 |
| 2000367-2000387A | CGR | | 1 | 2 | Job Reference (optional) |
| 84 Components (Dunn), | Dunn, NC - 28334, | 1 | 8.3 | | 6 2020 MiTek Industries, Inc. Wed May 20 13:02:16 2020 Page 2 |
| | | ID:ceuv | EDckNGn_ | oUaH?G0l | J8dzEcIS-HmcHkodY6Xdd2gO57Gccsyl?8z89gdkybG1ZhWzEbjL |

LOAD CASE(S) Standard

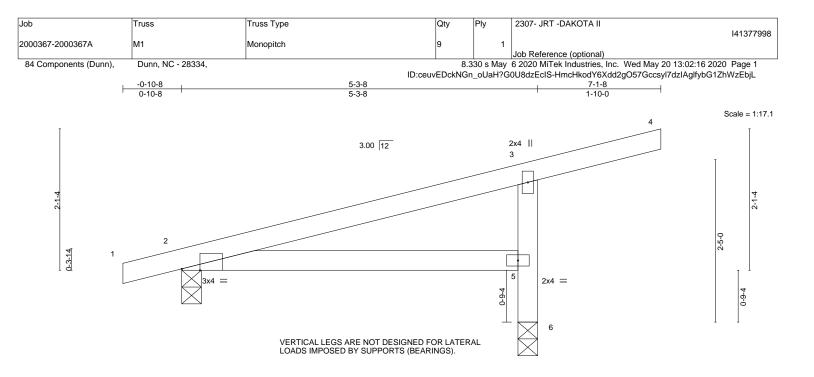
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-2=-60, 2-3=-60, 4-6=-20 Concentrated Loads (lb)

Vert: 5=-997(B) 7=-997(B) 8=-997(B) 9=-997(B) 10=-997(B)

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| OADING | (psf) | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|--------|-------|-----------------|--------|--------|------|----------|-------|-------|--------|-----|---------------|----------|
| CLL | 20.0 | Plate Grip DOL | 1.15 | TC | 0.28 | Vert(LL) | 0.03 | 5-9 | >999 | 240 | MT20 | 244/190 |
| CDL | 10.0 | Lumber DOL | 1.15 | BC | 0.24 | Vert(CT) | -0.06 | 5-9 | >999 | 180 | | |
| CLL | 0.0 * | Rep Stress Incr | YES | WB | 0.00 | Horz(CT) | 0.00 | 6 | n/a | n/a | | |
| CDL | 10.0 | Code IRC2015/TI | PI2014 | Matrix | x-MP | | | | | | Weight: 23 lb | FT = 20% |

| LUMBER- | BRACING- |
|-----------------------|---|
| TOP CHORD 2x4 SP No.2 | TOP CHORD Structural wood sheathing directly applied or 5-3-8 oc purlins, |
| BOT CHORD 2x4 SP No.2 | except end verticals. |
| WEBS 2x4 SP No.3 | BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. |
| | |

REACTIONS. (size) 2=0-3-8, 6=0-3-8 Max Horz 2=92(LC 11) Max Uplift 2=-58(LC 8), 6=-96(LC 12)

Max Grav 2=240(LC 1), 6=343(LC 1)

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

 TOP CHORD
 5-6=-343/231, 3-5=-283/242

NOTES-

 Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone 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) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

3) * 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.

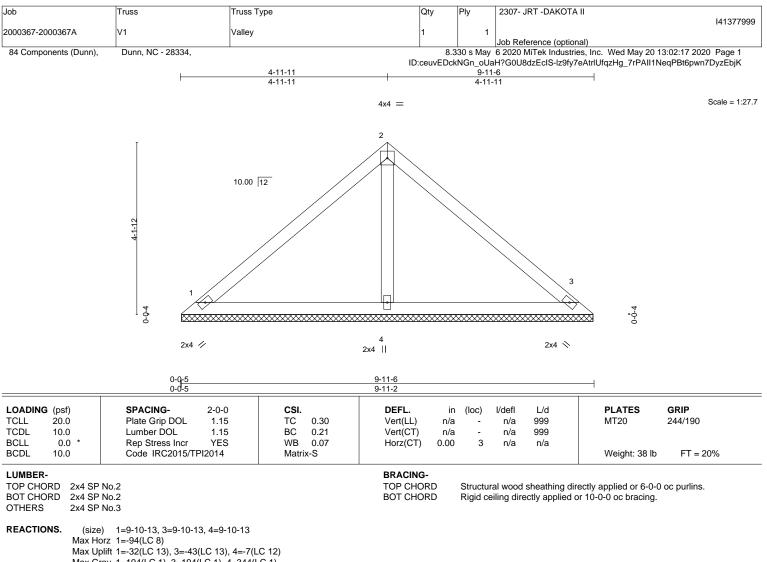
4) Bearing at joint(s) 6 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.

5) One H2.5A Simpson Strong-Tie 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.



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Max Grav 1=194(LC 1), 3=194(LC 1), 4=344(LC 1)

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

NOTES-

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

2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone 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) Gable requires continuous bottom chord bearing.

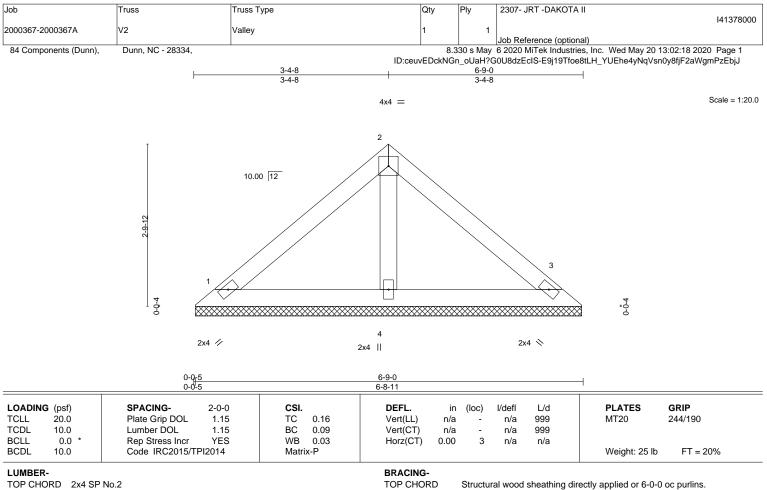
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

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

WWWWWWWW SEAL 044925 mm May 21,2020

🙏 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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 **ANSUTPIT Quality Criteria**, **DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.





BOT CHORD

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

TOP CHORD2x4 SP No.2BOT CHORD2x4 SP No.2OTHERS2x4 SP No.3

REACTIONS. (size) 1=6-8-6, 3=6-8-6, 4=6-8-6

Max Horz 1=-61(LC 8)

Max Uplift 1=-29(LC 13), 3=-36(LC 13)

Max Grav 1=136(LC 1), 3=136(LC 1), 4=203(LC 1)

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

NOTES-

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

2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone 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) Gable requires continuous bottom chord bearing.

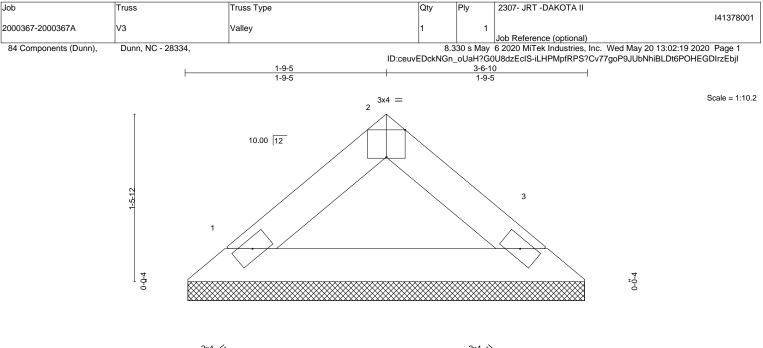
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

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



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2x4 //

2x4

Structural wood sheathing directly applied or 3-6-10 oc purlins.

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

| | | ⊢ | | | | 3-6-5 3-6-5 | | | | | <u>3-6</u> 10 0-0-5 |
|-------------|------------------------------------|-----------------|--------|-------|------|----------------|------|-------|--------|-----|------------------------|
| Plate Offse | Plate Offsets (X,Y) [2:0-2-0,Edge] | | | | | | | | | | |
| LOADING | (psf) | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES GRIP |
| TCLL | 20.0 | Plate Grip DOL | 1.15 | TC | 0.03 | Vert(LL) | n/a | - | n/a | 999 | MT20 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.09 | Vert(CT) | n/a | - | n/a | 999 | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.00 | Horz(CT) | 0.00 | 3 | n/a | n/a | |
| BCDL | 10.0 | Code IRC2015/TF | PI2014 | Matri | x-P | | | | | | Weight: 11 lb FT = 20% |

BRACING-TOP CHORD

BOT CHORD

LUMBER-

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

REACTIONS. (size) 1=3-6-0, 3=3-6-0 Max Horz 1=-28(LC 8) Max Uplift 1=-10(LC 12), 3=-10(LC 13) Max Grav 1=110(LC 1), 3=110(LC 1)

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

NOTES-

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

2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone 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) Gable requires continuous bottom chord bearing.

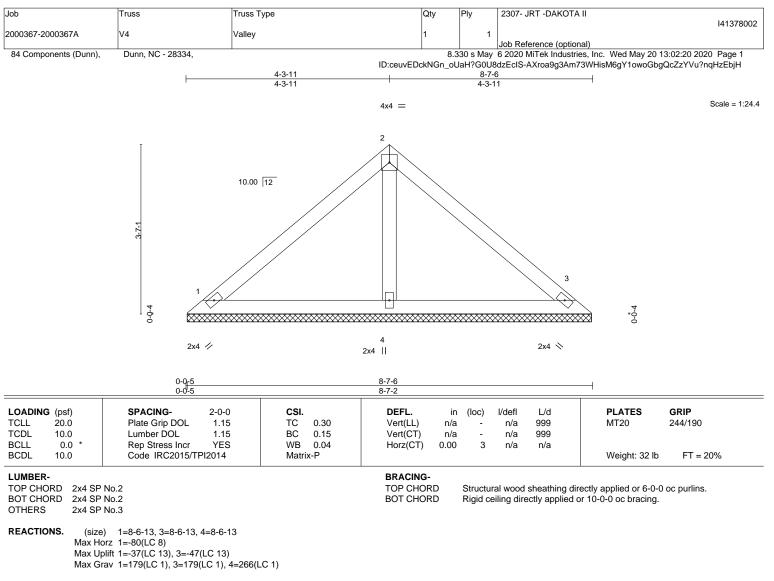
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

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

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

NOTES-

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

2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone 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) Gable requires continuous bottom chord bearing.

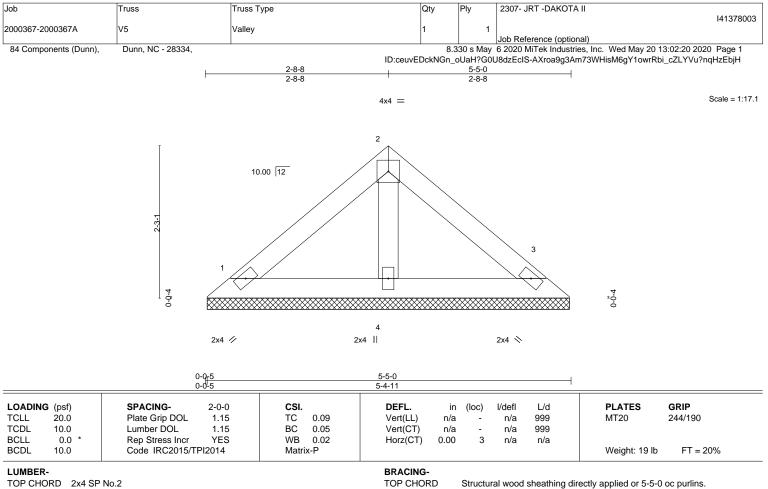
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

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



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BOT CHORD

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

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

REACTIONS. (size) 1=5-4-6, 3=5-4-6, 4=5-4-6

Max Horz 1=-48(LC 8)

Max Uplift 1=-22(LC 13), 3=-28(LC 13)

Max Grav 1=106(LC 1), 3=106(LC 1), 4=157(LC 1)

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

NOTES-

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

2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone 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) Gable requires continuous bottom chord bearing.

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

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



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