



PO Box 3850 Sumter SC 29151

Project Information:

Builders FirstSource Job #: 812025_Master

Building Code: IRC2009/TPI2007

Lot: C

Subdivision: ALL

County: Fayetteville
Computer Program Used: MiTek 20/20 7.6

Truss Design Information : Gravity Loads Wind Loads

Roof (psf): 40.0 Wind Standard: ASCE 7-05 Floor (psf): N/A Wind Speed (mph): 130

Mean Roof Height (ft.): 25 Exposure: C

| Truss # | Truss Label | Drawing # | Seal Date |
|------------|----------------|--------------|--------------|
| 1 | A01 | I11432554 | 11/3/016 |
| 2 | A02 | I11432555 | 11/3/016 |
| 3 | A03 | I11432556 | 11/3/016 |
| 4 | A04 | I11432557 | 11/3/016 |
| 5 | A05 | I11432558 | 11/3/016 |
| 6 | A06 | I11432559 | 11/3/016 |
| 7 | A07 | I11432560 | 11/3/016 |
| 8 | A08 | I11432561 | 11/3/016 |
| 9 | A09 | I11432562 | 11/3/016 |
| 10 | A10 | I11432563 | 11/3/016 |
| 11 | A11 | I11432564 | 11/3/016 |
| 12 | A12 | I11432565 | 11/3/016 |
| 13 | A13 | I11432566 | 11/3/016 |
| 14 | A14 | I11432567 | 11/3/016 |
| 15 | A15 | I11432568 | 11/3/016 |
| 16 | A16 | I11432569 | 11/3/016 |
| 17 | A17 | I11432570 | 11/3/016 |
| 18 | A18 | I11432571 | 11/3/016 |
| 19 | A19 | I11432572 | 11/3/016 |
| 20 | A20 | I11432573 | 11/3/016 |
| 21 | A21 | I11432574 | 11/3/016 |
| 22 | A22 | I11432575 | 11/3/016 |
| 23 | A23 | I11432576 | 11/3/016 |

| Truss # | Truss Label | Drawing # | Seal Date |
|------------|----------------|--------------|--------------|
| 24 | A24 | I11432577 | 11/3/016 |
| 25 | A25 | I11432578 | 11/3/016 |
| 26 | A26 | I11432579 | 11/3/016 |
| 27 | A27 | I11432580 | 11/3/016 |
| 28 | A28 | I11432581 | 11/3/016 |
| 29 | B01 | I11432582 | 11/3/016 |
| 30 | B02 | I11432583 | 11/3/016 |
| 31 | B03 | I11432584 | 11/3/016 |
| 32 | B04 | I11432585 | 11/3/016 |
| 33 | B05 | I11432586 | 11/3/016 |
| 34 | B06 | I11432587 | 11/3/016 |
| 35 | B10 | I11432588 | 11/3/016 |
| 36 | B11 | I11432589 | 11/3/016 |
| 37 | C01 | I11432590 | 11/3/016 |
| 38 | C02 | I11432591 | 11/3/016 |
| 39 | C03 | I11432592 | 11/3/016 |
| 40 | C04 | I11432593 | 11/3/016 |
| 41 | C05 | I11432594 | 11/3/016 |
| 42 | C11 | I11432595 | 11/3/016 |
| 43 | C12 | I11432596 | 11/3/016 |
| 44 | C13 | I11432597 | 11/3/016 |
| 45 | C14 | I11432598 | 11/3/016 |
| 46 | C15 | I11432599 | 11/3/016 |

| Truss # | Truss Label | Drawing # | Seal Date |
|------------|----------------|--------------|--------------|
| 47 | C21 | I11432600 | 11/3/016 |
| 48 | C22 | I11432601 | 11/3/016 |
| 49 | C23 | I11432602 | 11/3/016 |
| 50 | C24 | I11432603 | 11/3/016 |
| 51 | C25 | I11432604 | 11/3/016 |
| 52 | CP01 | I11432605 | 11/3/016 |
| 53 | CP02 | I11432606 | 11/3/016 |
| 54 | CP03 | I11432607 | 11/3/016 |
| 55 | D01 | I11432608 | 11/3/016 |
| 56 | D11 | I11432609 | 11/3/016 |
| 57 | D21 | I11432610 | 11/3/016 |
| 58 | E01 | I11432611 | 11/3/016 |
| 59 | E02 | I11432612 | 11/3/016 |
| 60 | J01 | I11432613 | 11/3/016 |
| 61 | J02 | I11432614 | 11/3/016 |
| 62 | J03 | I11432615 | 11/3/016 |
| 63 | J04 | I11432616 | 11/3/016 |
| 64 | J05 | I11432617 | 11/3/016 |
| 65 | J06 | I11432618 | 11/3/016 |
| 66 | J07 | I11432619 | 11/3/016 |
| 67 | J08 | I11432620 | 11/3/016 |
| 68 | J09 | I11432621 | 11/3/016 |
| 69 | J10 | I11432622 | 11/3/016 |

Notes:

- This truss specification package consists of this index sheet and 102 truss design drawings identified by I11432554 thru I11432655. This signed and sealed index sheet indicates acceptance of my professional engineering responsibility solely for listed truss design drawings.
- Each manufactured truss is designed as an individual building component based on the parameters summarized on each drawing. The suitability and use of each truss component for any particular building is the responsibility of the building designer per ANSI / TPI 1 as referenced by the building code.
- 3. The seal date shown on the individual truss design drawing must match the seal date on this index sheet.
- 4. My license renewal date for the state of North Carolina is December 31, 2016.



November 3,2016





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County: Fayetteville
Computer Program Used: MiTek 20/20 7.6

| Truss # | Truss Label | Drawing # | Seal Date |
|------------|----------------|--------------|--------------|
| 70 | J201 | I11432623 | 11/3/016 |
| 71 | J202 | I11432624 | 11/3/016 |
| 72 | J203 | I11432625 | 11/3/016 |
| 73 | J204 | I11432626 | 11/3/016 |
| 74 | J205 | I11432627 | 11/3/016 |
| 75 | J206 | I11432628 | 11/3/016 |
| 76 | J207 | I11432629 | 11/3/016 |
| 77 | J208 | I11432630 | 11/3/016 |
| 78 | J209 | I11432631 | 11/3/016 |
| 79 | J211 | I11432632 | 11/3/016 |
| 80 | J212 | I11432633 | 11/3/016 |
| 81 | J214 | I11432634 | 11/3/016 |
| 82 | J215 | I11432635 | 11/3/016 |
| 83 | J216 | I11432636 | 11/3/016 |
| 84 | J217 | I11432637 | 11/3/016 |
| 85 | J220 | I11432638 | 11/3/016 |
| 86 | J221 | I11432639 | 11/3/016 |
| 87 | J222 | I11432640 | 11/3/016 |
| 88 | J223 | I11432641 | 11/3/016 |
| 89 | J224 | I11432642 | 11/3/016 |
| 90 | J225 | I11432643 | 11/3/016 |
| 91 | J226 | I11432644 | 11/3/016 |
| 92 | J227 | I11432645 | 11/3/016 |
| 93 | J228 | I11432646 | 11/3/016 |
| 94 | J229 | I11432647 | 11/3/016 |
| 95 | J230 | I11432648 | 11/3/016 |
| 96 | J231 | I11432649 | 11/3/016 |
| 97 | J232 | I11432650 | 11/3/016 |
| 98 | J233 | I11432651 | 11/3/016 |

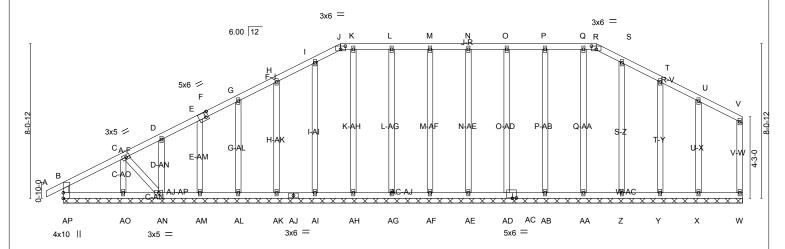
| Truss | Truss | Drawing | Seal |
|-------|-------|-----------|----------|
| # | Label | # | Date |
| 99 | J234 | I11432652 | 11/3/016 |
| 100 | J235 | I11432653 | 11/3/016 |
| 101 | J236 | I11432654 | 11/3/016 |
| 102 | J237 | I11432655 | 11/3/016 |

Notes:

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- 3. The seal date shown on the individual truss design drawing must match the seal date on this index sheet.
- 4. My license renewal date for the state of North Carolina is December 31, 2016.

Job Truss Truss Type Qty H&H-NC/Jessamine/Master Ply 812025 MASTER A01 GABLE 3 Job Reference (optional)
7.640 s Oct 7 2015 MiTek Industries, Inc. Thu Nov 03 11:26:34 2016 Page 1 Builders FirstSource, Piney Flats, TN 37686 ID:iAmMffg3tW0ghNx_OkVH7Bz_9Ds-CpOpnjUpqY2NYRT2X8ik5xwHhq3TKFaf9lTxq6yMx9J 14-5-8 14-5-8 27-9-8 13-4-0 35-5-0

Scale = 1:60.1



35-5-0 0-10-8 35-5-0 Plate Offsets (X,Y)--[F:0-1-12,0-3-4], [J:0-3-0,0-2-0], [R:0-3-0,0-2-0], [AC:0-2-8,0-0-4]

| LOADIN TCLL | IG (psf) 20.0 | SPACING- 2-0-0 Plate Grip DOL 1.15 | CSI. TC 0.18 | DEFL. Vert(LL) | in -0.00 | (loc) A | l/defl n/r | L/d 120 | PLATES MT20 | GRIP 244/190 |
|----------------|------------------|---------------------------------------|------------------------|-------------------|-------------|------------|---------------|------------|----------------|---------------------|
| TCDL | 10.0 | Lumber DOL 1.15 | BC 0.06 | Vert(TL) | -0.00 | Α | n/r | 120 | | |
| BCLL | 0.0 * | Rep Stress Incr YES | WB 0.15 | Horz(TL) | -0.00 | W | n/a | n/a | | |
| BCDL | 10.0 | Code IRC2009/TPI2007 | (Matrix) | | | | | | Weight: 264 lb | FT = 20% |

LUMBER-**BRACING-**

TOP CHORD 2x4 SP No.2 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except **BOT CHORD** 2x4 SP No.2 end verticals, and 2-0-0 oc purlins (6-0-0 max.): J-R. 2x4 SP No.3 WFBS BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 35-5-0.

2x4 SP No.3

(lb) - Max Horz AP=484(LC 8)

Max Uplift All uplift 100 lb or less at joint(s) W, AH, AO, AA except AP=-181(LC 8), AE=-126(LC 6), AF=-125(LC

7), AG=-143(LC 6), AI=-125(LC 8), AK=-182(LC 8), AL=-165(LC 8), AM=-180(LC 8), AN=-482(LC 8), AD=-124(LC

7), AB=-140(LC 6), Z=-109(LC 9), Y=-179(LC 9), X=-197(LC 9)

All reactions 250 lb or less at joint(s) AP, W, AE, AF, AG, AH, AI, AK, AL, AM, AN, AD, AB, AA, Z, Y, Max Grav X except AO=252(LC 8)

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

TOP CHORD B-AP=-169/271, H-I=-29/295, I-J=-29/362, J-K=-2/361, K-L=-2/361, L-M=-2/361,

M-N=-2/361, N-O=-2/361, O-P=-2/361, P-Q=-2/361, Q-R=-2/361, R-S=-29/363,

S-T=-29/288

BOT CHORD AO-AP=-338/32, AN-AO=-338/32

WEBS C-AN=-44/488

NOTES-

OTHERS

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) zone; end vertical left 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) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
- 5) Provide adequate drainage to prevent water ponding
- 6) All plates are 2x4 MT20 unless otherwise indicated.
- 7) Gable requires continuous bottom chord bearing.
- 8) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web)
- 9) Gable studs spaced at 2-0-0 oc.
- 10) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) W, AH, AO, AA except (jt=lb) AP=181, AE=126, AF=125, AG=143, AI=125, AK=182, AL=165, AM=180, AN=482, AD=124, AB=140, Z=109, Y=179, X=197
- 13) This truss is designed in accordance with the 2009 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



November 3,2016

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 BEFORE USE



| 12025_MASTER | A01 | GABLE | 3 | 1 | Lib Defenses (collected) | | | | | |
|--|----------|---|---|---|--|--|--|--|--|--|
| Builders FirstSource, Piney Flats, | TN 37686 | | | 7 | Job Reference (optional) 7.640 s Oct 7 2015 MiTek Industries, Inc. Thu Nov 03 11:26:35 2016 Page 2 | | | | | |
| ID::AmMffg3tW0ghNx_OkVH7Bz_9Ds-g?yB?3VRbsAEAa2F5sEze8SRQEOi3hqoOPDUNYyMx9I 15) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord. 16) This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code. | | | | | | | | | | |
| LOAD CASE(S) Standard | | | | | | | | | | |
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| | | ON THIS AND INCLUDED MITEK REFERENCE PA | | | MCD MOTLEY | | | | | |

Qty

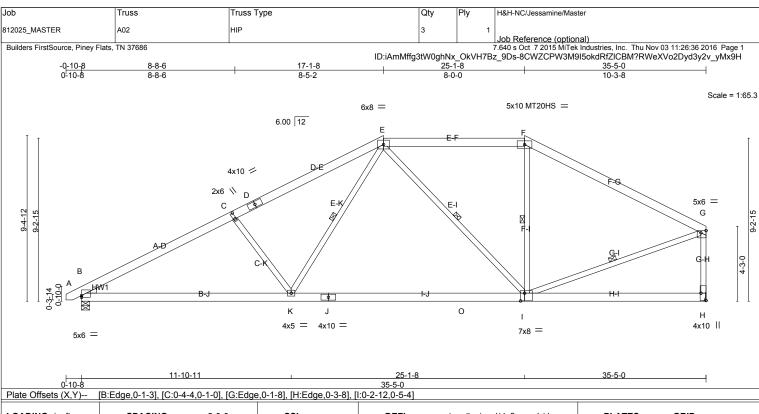
Ply

H&H-NC/Jessamine/Master

Job

Truss

Truss Type



| LOADING | (psf) | SPACING- 2-0-0 | CSI. | DEFL. | in | (loc) | I/defl | L/d | PLATES | GRIP |
|---------|-------|----------------------|------------|----------|-------|-------|--------|-----|----------------|----------|
| TCLL | 20.0 | Plate Grip DOL 1.15 | TC 0.87 | Vert(LL) | -0.39 | I-K | >999 | 360 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL 1.15 | BC 0.86 | Vert(TL) | -0.68 | I-K | >626 | 240 | MT20HS | 187/143 |
| BCLL | 0.0 * | Rep Stress Incr YES | WB 0.52 | Horz(TL) | 0.06 | Н | n/a | n/a | | |
| BCDL | 10.0 | Code IRC2009/TPI2007 | (Matrix-S) | Wind(LL) | 0.15 | I-K | >999 | 240 | Weight: 250 lb | FT = 20% |

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

TOP CHORD 2x6 SP No.2

BOT CHORD 2x6 SP No.2 2x4 SP No.3 *Except* WFBS

G-H: 2x4 SP No.2

WEDGE Left: 2x4 SP No.3

REACTIONS. (lb/size) B=1452/0-5-8 (min. 0-1-11), H=1410/Mechanical

Max Horz B=477(LC 8)

Max Uplift B=-1020(LC 8), H=-862(LC 9)

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

TOP CHORD B-C=-2386/2099, C-D=-2104/1968, D-E=-2007/2006, E-F=-1231/1416, F-G=-1493/1325,

G-H=-1325/1291

BOT CHORD B-K=-1984/2031, J-K=-1173/1414, J-O=-1173/1414, I-O=-1173/1414 C-K=-442/849, E-K=-618/785, E-I=-394/403, F-I=-84/296, G-I=-894/1257 **WEBS**

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) zone; end vertical left 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 basic load combinations, which include cases with reductions for multiple concurrent live loads.
- 4) Provide adequate drainage to prevent water ponding.
- 5) All plates are MT20 plates unless otherwise indicated.
- 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, with BCDL = 10.0psf.
- 8) Refer to girder(s) for truss to truss connections.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) B=1020, H=862,
- 10) This truss is designed in accordance with the 2009 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 11) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and ½" gypsum sheetrock be applied directly to the bottom chord.
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 13) This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

LOAD CASE(S) Standard



Structural wood sheathing directly applied, except end verticals, and

E-K, E-I, F-I, G-I

2-0-0 oc purlins (6-0-0 max.): E-F.

Rigid ceiling directly applied.

1 Row at midpt

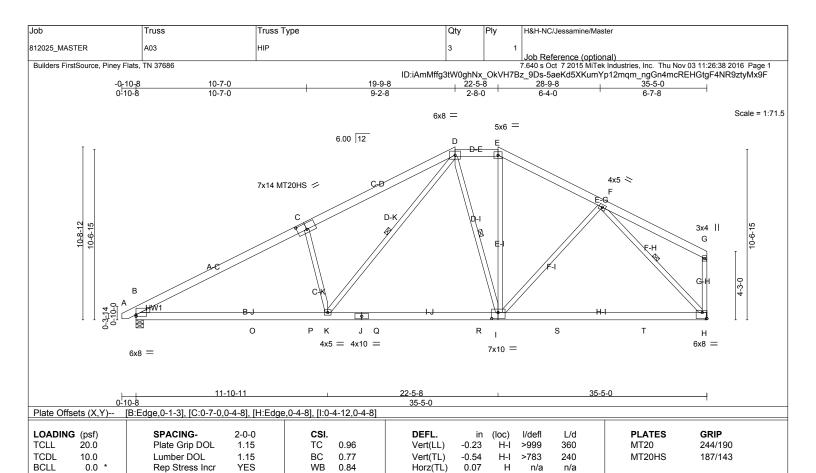
November 3,2016



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

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITTER REFERENCE FACE MINES OF THIS AND INCLUDED MITTER REFERENCE FACE MINES OF THE DESIGN VALID FOR THE PROPERTY OF TH Applicability of design paramenters and proper incorporation of component is responsibility of building designer - not truss engineer/designer. Bracing shown replacements of the state of th





Wind(LL)

BRACING-TOP CHORD

BOT CHORD

WEBS

0.17

K-N

>999

1 Row at midpt

240

2-0-0 oc purlins (6-0-0 max.): D-E.

Rigid ceiling directly applied.

Weight: 266 lb

Structural wood sheathing directly applied, except end verticals, and

D-K. D-I. F-H

FT = 20%

LUMBER-

BCDL

TOP CHORD 2x6 SP No.2 BOT CHORD 2x6 SP No.2

10.0

2x4 SP No.3 *Except* WFBS D-K: 2x4 SP No.2

WEDGE Left: 2x4 SP No.3

REACTIONS. (lb/size) B=1452/0-5-8 (min. 0-1-12), H=1410/Mechanical

Max Horz B=512(LC 8)

Max Uplift B=-1044(LC 8), H=-900(LC 9) Max Grav B=1472(LC 2), H=1495(LC 2)

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

Code IRC2009/TPI2007

TOP CHORD B-C=-2415/2035, C-D=-2284/2304, D-E=-1281/1446, E-F=-1502/1476, G-H=-195/286 **BOT CHORD**

B-O=-1882/2060, O-P=-1882/2060, K-P=-1882/2060, J-K=-944/1322, J-Q=-944/1322,

 $Q-R = -944/1322, \ I-R = -944/1322, \ I-S = -964/1096, \ S-T = -964/1096, \ H-T = -964/1096$

C-K=-568/1029, D-K=-1123/1031, D-I=-358/482, E-I=-375/466, F-I=-46/357,

F-H=-1519/1422

NOTES-(13)

WEBS

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) zone; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

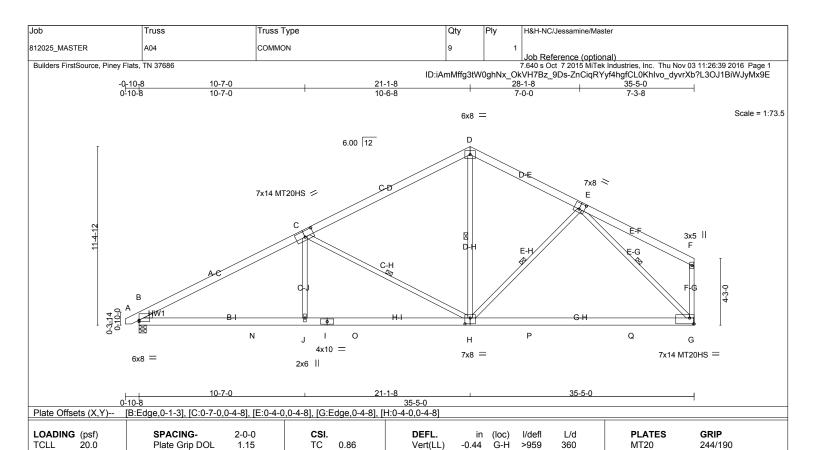
(Matrix-S)

- 3) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
- 4) Provide adequate drainage to prevent water ponding.
- 5) All plates are MT20 plates unless otherwise indicated.
- 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, with BCDL = 10.0psf.
- 8) Refer to girder(s) for truss to truss connections.
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- 10) This truss is designed in accordance with the 2009 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
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LOAD CASE(S) Standard



November 3,2016



Vert(TL)

Horz(TL)

Wind(LL)

BRACING-TOP CHORD

WFBS

BOT CHORD

-0.89

0.07

0.15

G-H

G

>477

>999

1 Row at midpt

n/a

Rigid ceiling directly applied.

240

n/a

240

MT20HS

Structural wood sheathing directly applied, except end verticals.

C-H, D-H, E-H, E-G

Weight: 254 lb

187/143

FT = 20%

LUMBER-

TCDL

BCLL

BCDL

TOP CHORD 2x6 SP No.2 BOT CHORD 2x6 SP No.2

10.0

10.0

0.0

2x4 SP No.3 *Except* WFBS F-G: 2x4 SP No.2

WEDGE

Left: 2x4 SP No.3

REACTIONS. (lb/size) B=1452/0-5-8 (min. 0-1-11), G=1410/Mechanical

Max Horz B=532(LC 8)

Max Uplift B=-1053(LC 8), G=-916(LC 9) Max Grav B=1452(LC 1), G=1448(LC 2)

Lumber DOL

Rep Stress Incr

Code IRC2009/TPI2007

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD B-C=-2382/2063, C-D=-1456/1444, D-E=-1402/1502, F-G=-233/341

B-N=-1915/2032, J-N=-1915/2032, I-J=-1913/2037, I-O=-1913/2037, H-O=-1913/2037, **BOT CHORD**

1.15

YES

H-P=-997/1078, P-Q=-997/1078, G-Q=-997/1078

WFBS C-J=0/372, C-H=-973/1233, D-H=-583/749, E-H=-42/362, E-G=-1453/1413

NOTES-(11)

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) zone; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

ВС

WB

(Matrix-S)

0.96

0.77

- 3) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
 4) All plates are MT20 plates unless otherwise indicated.
- 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, with BCDL = 10.0psf.
- 7) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) B=1053, G=916.
- 9) This truss is designed in accordance with the 2009 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and ½" gypsum sheetrock be applied directly to the bottom chord.
- 11) This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

LOAD CASE(S) Standard



November 3,2016

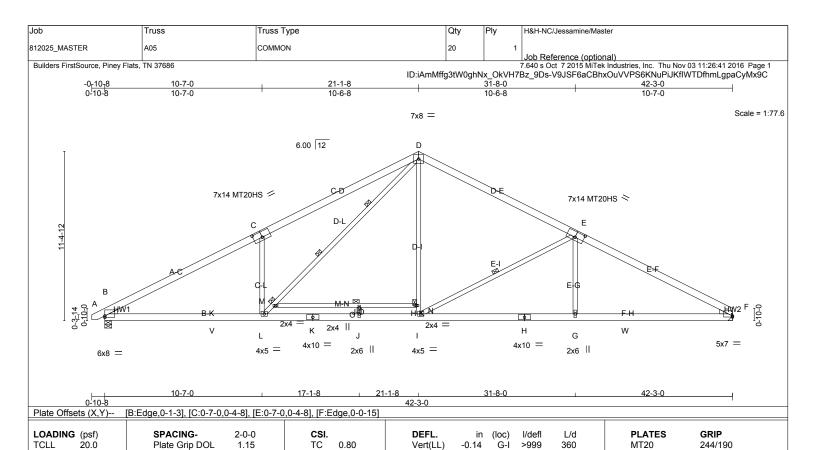


WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 BEFORE USE.

Design valid for use only with MiTek connectors. This design is based only upon parameters shown, and is for an individual building component Design Value for use only with rex commercials. This design is based only upon parameters shown, and is for an involved building Component of Applicability of design parameters and proper incorporation of component is responsibility of building designer - not truss engineer/designer. Bracing shown is for lateral support of individual web members only. Additional temporary bracing to insure stability during construction is the responsibility of the erector. Additional permanent bracing of the overall structure is the responsibility of the building designer. For general guidance regarding fabrication, quality control, storage, delivery, erection and bracing, consult

ANSI/TPI1 Quality Criteria, DSB-89 and BCSI1 Building Component Safety Information available from Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719.





Vert(TL)

Horz(TL)

Wind(LL)

BRACING-TOP CHORD

BOT CHORD

WFBS

JOINTS

-0.38

0.12

0.23

G-I

>999

>999

1 Row at midpt

2 Rows at 1/3 pts

1 Brace at Jt(s): M, N, O

n/a

240

n/a

240

Rigid ceiling directly applied or 5-1-1 oc bracing.

Structural wood sheathing directly applied or 3-8-4 oc purlins.

F-I

D-M

MT20HS

Weight: 299 lb

187/143

FT = 20%

| ı | JIV | IR | FF | ₹- |
|---|-----|----|----|----|

TCDL

BCLL

BCDL

TOP CHORD 2x6 SP No.1 BOT CHORD 2x6 SP No.2

10.0

10.0

0.0

WEBS 2x4 SP No.3 *Except* D-L: 2x4 SP SS, M-N: 2x4 SP No.2

WEDGE Left: 2x4 SP No.3, Right: 2x4 SP No.3

REACTIONS. (lb/size) B=1731/0-5-8 (min. 0-2-1), F=1690/Mechanical

Lumber DOL

Rep Stress Incr

Code IRC2009/TPI2007

Max Horz B=321(LC 8)

Max Uplift B=-1228(LC 8), F=-1152(LC 9)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD B-C=-2924/2618, C-D=-2928/3192, D-E=-2037/2045, E-F=-2929/2622

BOT CHORD B-V=-2071/2494, L-V=-2071/2494, K-L=-1055/1703, J-K=-1055/1703, I-J=-1055/1703,

1.15

YES

ВС

WB

(Matrix-M)

0.68

0.96

H-I=-2074/2502, G-H=-2074/2502, G-W=-2077/2499, F-W=-2077/2499
WEBS I-N=-442/743, D-N=-439/752, E-I=-1028/1186, E-G=0/439, L-M=-1458/1182,

D-M=-1479/1201, C-L=-669/1194

NOTES- (11)

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) zone; 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 basic load combinations, which include cases with reductions for multiple concurrent live loads.
- 4) All plates are MT20 plates unless otherwise indicated.
- 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, with BCDL = 10.0psf.
- 7) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) B=1228, F=1152.
- This truss is designed in accordance with the 2009 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
- 11) This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

LOAD CASE(S) Standard



November 3,2016

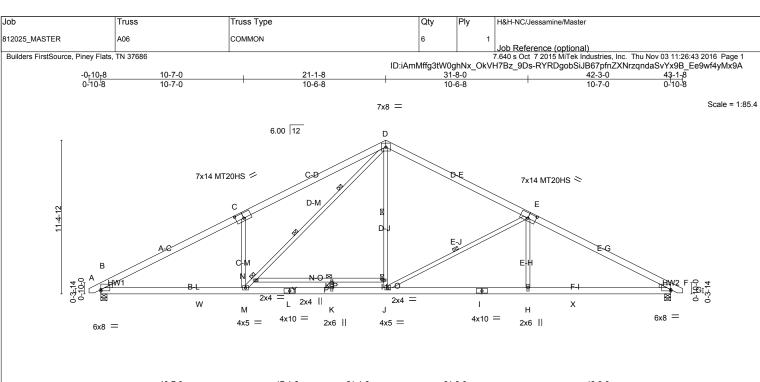


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ANSITPH Quality Criteria, DSB-89 and BCSI1 Building Component Safety Information available from Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719.





31-8-0 42-3-0 0-10-8 0-10-8 42-3-0

| Flate Oil | Fiate Offsets (A, r) [B.Lage, 0-1-0], [C.0-7-0, 0-4-0], [L.0-7-0, 0-4-0], [r.Lage, 0-1-0] | | | | | | | |
|----------------|---|--|------------------------|--|--|--|--|--|
| LOADIN TCLL | G (psf) 20.0 | SPACING- 2-1-0 Plate Grip DOL 1.15 | CSI. TC 0.94 | DEFL. in (loc) l/defl L/d PLATES GRIP Vert(LL) -0.25 K-M >999 360 MT20 244/190 | | | | |
| TCDL | 10.0 | Lumber DOL 1.15 | BC 0.90 | Vert(TL) -0.50 K-M >999 240 MT20HS 187/143 | | | | |
| BCLL BCDL | 0.0 * 10.0 | Rep Stress Incr NO Code IRC2009/TPI2007 | WB 0.83 (Matrix-M) | Horz(TL) 0.13 F n/a n/a Wind(LL) 0.24 K-M >999 240 Weight: 301 lb FT = 20% | | | | |

BRACING-

TOP CHORD

BOT CHORD

WEBS

JOINTS

2-0-0 oc purlins (3-6-3 max.)

1 Brace at Jt(s): D, N, O, P

1 Row at midpt 2 Rows at 1/3 pts

(Switched from sheeted: Spacing > 2-0-0). Rigid ceiling directly applied or 5-0-4 oc bracing.

D-O, E-J

D-N

LUMBER-

TOP CHORD 2x6 SP No.1

BOT CHORD 2x6 SP No.2 2x4 SP No.3 *Except* WFBS

D-M: 2x4 SP SS, N-O: 2x4 SP No.2

WEDGE Left: 2x4 SP No.3, Right: 2x4 SP No.3

REACTIONS. (lb/size) B=1803/0-5-8 (min. 0-2-3), F=1803/0-5-8 (min. 0-2-3)

Max Horz B=317(LC 8)

Max Uplift B=-1279(LC 8), F=-1279(LC 9) Max Grav B=1828(LC 2), F=1840(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD B-C=-3171/2725, C-D=-3168/3323, D-E=-2209/2128, E-F=-3190/2729

BOT CHORD

B-W=-2125/2727, M-W=-2125/2727, L-M=-1069/1883, K-L=-1069/1883, J-K=-1069/1883,

 $I-J=-2128/2750,\ H-I=-2128/2750,\ H-X=-2131/2744,\ F-X=-2131/2744$

J-O=-459/889, D-O=-456/973, E-J=-1040/1234, E-H=0/457, M-N=-1518/1244, D-N=-1541/1279, C-M=-697/1244

NOTES-(11)

WFBS

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) zone; 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 basic load combinations, which include cases with reductions for multiple concurrent live loads.
- 4) All plates are MT20 plates unless otherwise indicated.
- 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, with BCDL = 10.0psf.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) B=1279, F=1279.
- 8) This truss is designed in accordance with the 2009 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 9) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord. 11) This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

LOAD CASE(S) Standard

November 3,2016

Continued on page 2

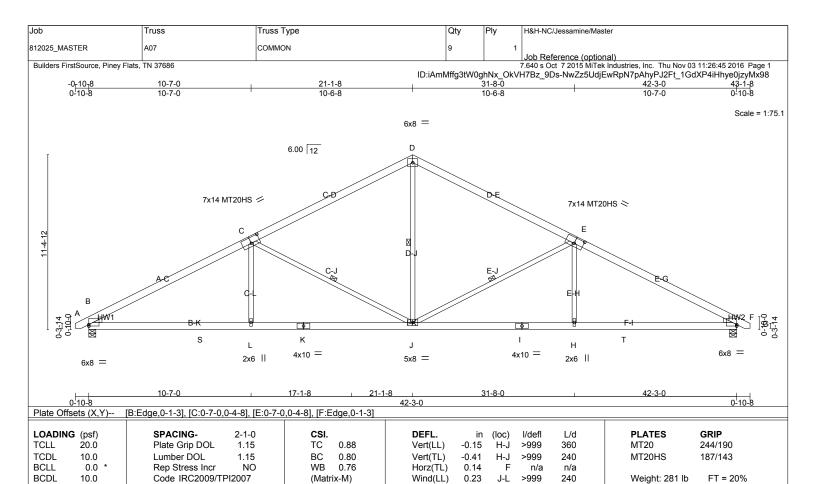


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| 2006 1.50 | b | Truss | Truss Type | Qty | Ply | H&H-NC/Jessamine/Master |
|---|--|-------------------------|----------------------------|------------------|------------|---|
| LOAD CASE(S) Standard 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) | 2025_MASTER | A06 | COMMON | 6 | 1 | I leb Defenses (astisme) |
| LOAD CASE(S) Standard 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) | uilders FirstSource, Piney Fla | its, TN 37686 | | | MahNv ON | JUD RETERENCE (OPTIONAL) 7.640 s Oct 7 2015 MiTek Industries, Inc. Thu Nov 03 11:26:43 2016 Page 2 VHTR2 ODS. RYRD (ADS): IR67 nfn ZYNtzanda SVVVOR Eagurida MACA |
| |) Dead + Roof Live (bal Uniform Loads (plf) | anced): Lumber Increase | =1.15, Plate Increase=1.15 | i Piriliyiliyəti | oginva_OK\ | ····· DZ_DDSTVTYDGGDDGGPIIIZATYIZQIIDAGVTX9D_E69WI4YWX9A |
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LUMBER-

TOP CHORD 2x6 SP No.1

2x6 SP No.2 **BOT CHORD** 2x4 SP No.3 WFBS

WEDGE

Left: 2x4 SP No.3, Right: 2x4 SP No.3

BRACING-

TOP CHORD 2-0-0 oc purlins (4-2-1 max.)

(Switched from sheeted: Spacing > 2-0-0). Rigid ceiling directly applied or 5-0-4 oc bracing.

BOT CHORD WEBS

D-J, E-J, C-J 1 Row at midpt

REACTIONS. (lb/size) B=1803/0-5-8 (min. 0-2-2), F=1803/0-5-8 (min. 0-2-2)

Max Horz B=317(LC 8)

Max Uplift B=-1279(LC 8), F=-1279(LC 9)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. B-C=-3083/2730, C-D=-2121/2126, D-E=-2121/2126, E-F=-3083/2730 TOP CHORD

BOT CHORD B-S=-2129/2649, L-S=-2129/2649, K-L=-2127/2655, J-K=-2127/2655, I-J=-2129/2655,

H-I=-2129/2655, H-T=-2131/2649, F-T=-2131/2649

WEBS D-J=-1028/1222, E-J=-1059/1237, E-H=0/448, C-L=0/448, C-J=-1059/1237

NOTES-(11)

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) zone; 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 basic load combinations, which include cases with reductions for multiple concurrent live loads.
- 4) All plates are MT20 plates unless otherwise indicated.
- 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, with BCDL = 10.0psf.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) B=1279, F=1279.
- 8) This truss is designed in accordance with the 2009 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 9) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 11) This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

LOAD CASE(S) Standard



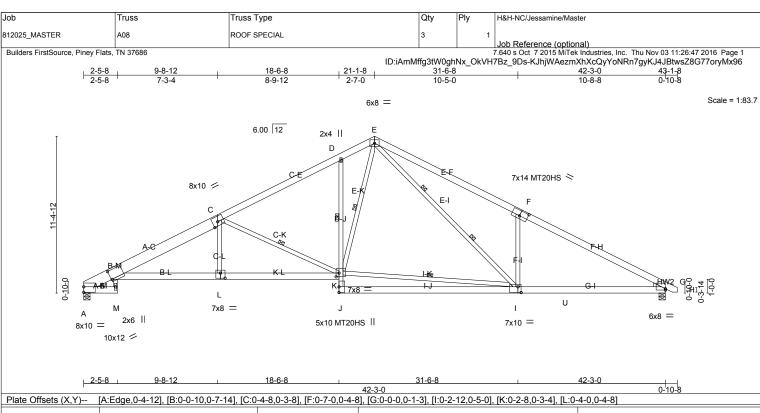
November 3,2016



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| LOADING (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 * | SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES | CSI. TC 0.89 BC 0.79 WB 0.97 | DEFL. in (loc) l/defl L/d Vert(LL) -0.24 I-J >999 360 Vert(TL) -0.73 I-J >691 240 Horz(TL) 0.31 G n/a n/a | PLATES GRIP MT20 244/190 MT20HS 187/143 |
|--|--|---------------------------------------|---|---|
| BCDL 10.0 | Code IRC2009/TPI2007 | (Matrix-S) | Wind(LL) 0.42 B-L >999 240 | Weight: 329 lb FT = 20% |

TOP CHORD

BOT CHORD

WEBS

Structural wood sheathing directly applied. Rigid ceiling directly applied. Except:

D-K

E-I

C-K, I-K, E-K

1 Row at midnt

1 Row at midpt

2 Rows at 1/3 pts

LUMBER-**BRACING-**

TOP CHORD 2x6 SP No.2 *Except*

A-C: 2x10 SP DSS 2x6 SP No.2 *Except* BOT CHORD

B-L: 2x6 SP No.1, D-J: 2x4 SP No.2

2x4 SP No.3 *Except* WEBS

I-K,E-I: 2x4 SP No.2 WEDGE

Right: 2x4 SP No.3

REACTIONS. (lb/size) A=1685/0-5-8 (min. 0-2-0), G=1722/0-5-8 (min. 0-2-1)

Max Horz A=-317(LC 9)

Max Uplift A=-1141(LC 8), G=-1223(LC 9)

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

B-P=-833/840, B-C=-3409/3044, C-D=-2391/2317, D-E=-2209/2496, E-F=-2897/3126, TOP CHORD

F-G=-2914/2584

BOT CHORD B-L=-2555/3123, K-L=-2547/3128, D-K=-281/448, I-J=-128/393, I-U=-2012/2482,

G-U=-2012/2482

C-L=0/336, C-K=-1232/1360, I-K=-946/1379, E-K=-959/1083, E-I=-1298/1095,

F-I=-636/1176, B-M=-216/264

NOTES-(10)

WEBS

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) zone; 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 basic load combinations, which include cases with reductions for multiple concurrent live loads.
- 4) All plates are MT20 plates unless otherwise indicated.
- 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, with BCDL = 10.0psf.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) A=1141, G=1223.
- 8) This truss is designed in accordance with the 2009 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and ½" gypsum sheetrock be applied directly to the bottom chord.
- 10) This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

LOAD CASE(S) Standard



November 3,2016



MOTLEY STRUCTURAL DESIGN

Job Truss Truss Type Qty H&H-NC/Jessamine/Master 812025 MASTER A09 HIP 3 | Job Reference (optional)
7.640 s Oct 7 2015 MiTek Industries, Inc. Thu Nov 03 11:26:50 2016 Page 1
ID:iAmMffg3tW0ghNx_OkVH7Bz_9Ds-kuMs8Bhr3S36Tuh7TV?UIJar7HLL4N30rELnOAyMx93 Builders FirstSource, Piney Flats, TN 37686 32-2-8 9-9-0 8-9-12 2-8-0 10-0-8 Scale = 1:89.0 6x8 = 5x10 MT20HS = 6.00 12 2x6 || D F 5x8 ≥ 8x10 / G 2x6 // Н C 10-8-12 0-10-0 Ν Κ W Х 7x8 = 6x8 = 8x14 MT18H = 5x10 MT20HS II 8x10 2x6 || 10x12 / 42-3-0 0-10-8 [A:0-1-0,0-1-12], [B:0-0-10,0-7-14], [C:0-4-12,0-3-8], [D:0-4-10,0-0-4], [F:0-5-8,0-2-0], [H:0-3-8,0-1-0], [I:Edge,0-1-3], [K:0-3-12,0-4-8], [M:0-2-8,0-3-8], Plate Offsets (X,Y)--[N:0-4-0,0-4-8] LOADING (psf) SPACING-2-0-0 CSI. DEFL. I/d PLATES GRIP in (loc) I/defl 1.15 **TCLL** 20.0 Plate Grip DOL TC 0.86 Vert(LL) -0.20 B-N >999 360 MT20 244/190 **TCDL** 10.0 Lumber DOL вс 0.76 Vert(TL) -0.55 >917 240 MT20HS 187/143 1.15 K-L **BCLL** 0.0 Rep Stress Incr YES WB 0.62 Horz(TL) 0.32 n/a n/a MT18H 244/190 **BCDL** 10.0 Code IRC2009/TPI2007 (Matrix-S) Wind(LL) 0.42 B-N >999 240 Weight: 340 lb FT = 20% LUMBER-**BRACING-**Structural wood sheathing directly applied, except 2-0-0 oc purlins (3-10-0 max.): E-F. TOP CHORD 2x6 SP No.2 *Except* TOP CHORD E-F: 2x4 SP No.2, A-C: 2x10 SP DSS 2x6 SP No.2 *Except* Rigid ceiling directly applied. Except: BOT CHORD BOT CHORD B-N: 2x6 SP No.1, D-L: 2x4 SP No.2 1 Row at midpt D-M WFBS 2x4 SP No.3 *Except* WFBS C-M, K-M, E-M, E-K, F-K 1 Row at midpt E-K,F-K: 2x4 SP No.2 WEDGE Right: 2x4 SP No.3 REACTIONS. (lb/size) A=1685/0-5-8 (min. 0-2-0), I=1722/0-5-8 (min. 0-2-1) Max Horz A=-298(LC 9) Max Uplift A=-1128(LC 8), I=-1209(LC 9)

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

B-R=-833/835, B-C=-3411/3016, C-D=-2390/2295, D-E=-2257/2573, E-F=-1751/2176, TOP CHORD

F-G=-2554/2764, G-H=-2699/2718, H-I=-2906/2613

BOT CHORD $B-N=-2528/3124,\ M-N=-2525/3124,\ D-M=-280/667,\ K-L=-176/360,\ K-W=-2049/2481,\ M-N=-2528/3124,\ M-N=-2525/3124,\ M-N=-280/667,\ K-L=-176/360,\ K-W=-2049/2481,\ M-N=-2528/3124,\ M-N=-2525/3124,\ M-N=-280/667,\ K-L=-176/360,\ K-W=-2049/2481,\ M-N=-280/667,\ K-L=-176/360,\ K-W=-2049/2481,\ M-N=-280/667,\ M-N=-280/667,\$

W-X=-2049/2481, I-X=-2049/2481

C-N=0/339, C-M=-1228/1355, K-M=-962/1509, E-M=-1216/1108, E-K=-443/208, WFBS

F-K=-799/901, B-O=-214/264, H-K=-554/1016

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) zone; 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 basic load combinations, which include cases with reductions for multiple concurrent live loads.
- 4) Provide adequate drainage to prevent water ponding.
- 5) All plates are MT20 plates unless otherwise indicated.
- 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, with BCDL = 10.0psf.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) A=1128, I=1209.
- 9) This truss is designed in accordance with the 2009 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and ½" gypsum sheetrock be applied directly to the bottom chord.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 12) This manufactured truss is designed as an individual building component. The suitability and use of this component for any

Contractigular bailding is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.



November 3,2016

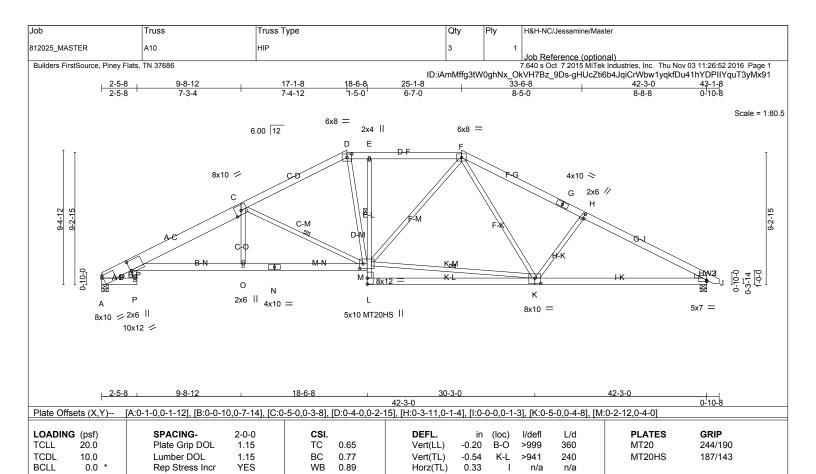


WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 BEFORE USE.

Design valid for use only with MiTek connectors. This design is based only upon parameters shown, and is for an individual building component Applicability of design paramenters and proper incorporation of component is responsibility of building designer - not truss engineer/designer. Bracing shown replacements of the state of th



| Job | Truss | Truss Type | Qty | Ply | H&H-NC/Jessamine/Master | |
|------------------------------------|--------------------------------|---|------------|---------|---|--|
| 812025_MASTER | A09 | HIP | 3 | 1 | | |
| Builders FirstSource, Piney Flats, | | | | | Job Reference (optional) | es, Inc. Thu Nov 03 11:26:50 2016 Page 2 7TV?UIJar7HLL4N30rELnOAyMx93 |
| Builders FirstSource, Piney Flats, | , IN 37080 | ID:iAm | Mffg3tW0g | hNx OkV | 7.640 s Oct 7 2015 Millek industrie H7Bz 9Ds-kuMs8Bhr3S36Tuh | i7TV?UIJar7HLL4N30rELnOAyMx93 |
| | | | 0 0 | _ | _ | , |
| LOAD CASE(S) Standard | j | | | | | |
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| WARNING - Verify des | sign parameters and READ NOTES | ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7 | 473 BEFORE | USE. | | MOTERY |



Wind(LL)

BRACING-

TOP CHORD

BOT CHORD

WEBS

0.40

B-O

>999

1 Row at midpt

1 Row at midpt

240

2-0-0 oc purlins (4-8-12 max.): D-F.

Rigid ceiling directly applied. Except:

Structural wood sheathing directly applied, except

E-M

C-M. K-M

Weight: 327 lb

FT = 20%

LUMBER-

BCDL

TOP CHORD 2x6 SP No.2 *Except* A-C: 2x10 SP DSS

2x6 SP No.2 *Except* **BOT CHORD**

B-N: 2x6 SP No.1, E-L: 2x4 SP No.2

WEBS 2x4 SP No.3

10.0

WEDGE

Right: 2x4 SP No.3

REACTIONS. (lb/size) A=1685/0-5-8 (min. 0-2-0), I=1722/0-5-8 (min. 0-2-1)

Code IRC2009/TPI2007

Max Horz A=-262(LC 9)

Max Uplift A=-1096(LC 8), I=-1178(LC 9)

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

TOP CHORD B-S=-833/825, B-C=-3383/2928, C-D=-2423/2282, D-E=-2229/2299, E-F=-2223/2302,

F-G=-2520/2526, G-H=-2637/2488, H-I=-2933/2625

BOT CHORD B-O=-2433/3089, N-O=-2428/3093, M-N=-2428/3093, E-M=-275/372, K-L=-189/368,

I-K=-2084/2514

C-O=0/345, C-M=-1124/1198, D-M=-604/785, K-M=-1189/1664, F-M=-277/471, WEBS

F-K=-447/564, H-K=-434/823, B-P=-211/264

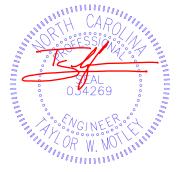
NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) zone; 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

(Matrix-S)

- 3) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
- 4) Provide adequate drainage to prevent water ponding
- 5) All plates are MT20 plates unless otherwise indicated.
- 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) A=1096, I=1178.
- 9) This truss is designed in accordance with the 2009 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1. 10) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and ½" gypsum
- sheetrock be applied directly to the bottom chord. 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord
- 12) This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code

LOAD CASE(S) Standard



November 3,2016

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 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 Design Value for use only with rex commercials. This design is based only upon parameters shown, and is for an involved building Component of Applicability of design parameters and proper incorporation of component is responsibility of building designer - not truss engineer/designer. Bracing shown is for lateral support of individual web members only. Additional temporary bracing to insure stability during construction is the responsibility of the erector. Additional permanent bracing of the overall structure is the responsibility of the building designer. For general guidance regarding fabrication, quality control, storage, delivery, erection and bracing, consult

ANSI/TPI1 Quality Criteria, DSB-89 and BCSI1 Building Component Safety Information available from Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719.



Truss Job Truss Type Qty H&H-NC/Jessamine/Master 812025 MASTER A11 GABLE 3 Job Reference (optional)
7.640 s Oct 7 2015 MiTek Industries, Inc. Thu Nov 03 11:41:21 2016 Page 1
ID:iAmMffg3tW0ghNx_OkVH7Bz_9Ds-kSU7x0DCx4oXTlnX?w7kY_9kZObhfGKD7FrNTByMwxS Builders FirstSource, Piney Flats, TN 37686 -0₇10₇8 2-5-8 0-10-8 2-5-8 27-9-8 42-3-0 34-10-8

9-3-0

7-1-0

Structural wood sheathing directly applied, except

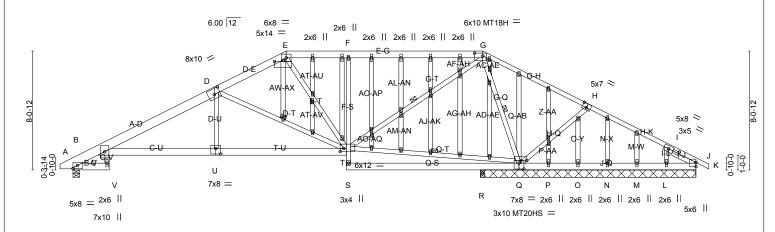
D-T, Q-T, G-T, G-Q

2-0-0 oc purlins (6-0-0 max.): E-G.

Rigid ceiling directly applied.

1 Row at midpt

Scale = 1:78.1



0-10-8 42-3-0 0-10-8 Plate Offsets (X,Y)- $\begin{array}{l} [D:0-5-0,0-4-8], \\ [G:0-6-12,0-2-4], \\ [H:0-3-8,0-3-4], \\ [J:1-3-14,0-1-8], \\ [Q:0-5-0,0-0-7], \\ [Q:0-4-0,0-4-12], \\ [T:0-2-15,0-2-8], \\ [U:0-4-0,0-4-8], \\ [AW:0-7-0,0-1-1], \\ [A$

| LOADING (psf) TCLL 20.0 | SPACING- 2-0-0 Plate Grip DOL 1.15 | CSI. TC 0.65 | DEFL. in (loc) I/defl L/d Vert(LL) -0.17 C-U >999 360 | PLATES GRIP MT20 244/190 |
|-------------------------|---------------------------------------|-----------------|--|-----------------------------|
| TCDL 10.0 | Lumber DOL 1.15 | BC 0.79 | Vert(TL) -0.43 C-U >784 240 | MT20HS 187/143 |
| BCLL 0.0 * | Rep Stress Incr YES | WB 0.71 | Horz(TL) 0.21 R n/a n/a | MT18H 244/190 |
| BCDL 10.0 | Code IRC2009/TPI2007 | (Matrix-S) | Wind(LL) 0.37 C-U >912 240 | Weight: 404 lb FT = 20% |

TOP CHORD

BOT CHORD

WEBS

LUMBER-**BRACING-**

4-8-12

4-1-0

TOP CHORD 2x6 SP No.2 *Except*

G-H,H-K: 2x4 SP No.2, A-D: 2x8 SP DSS 2x6 SP No.2 *Except*

BOT CHORD F-S: 2x4 SP No.2

2x4 SP No.3 **WEBS** 2x4 SP No.3 OTHERS

SLIDER Right 2x4 SP No.3 2-1-2

REACTIONS. All bearings 14-7-8 except (jt=length) B=0-5-8, R=0-3-8.

Max Horz B=-221(LC 9)

Max Uplift All uplift 100 lb or less at joint(s) M, N except B=-726(LC 8),

Q=-1476(LC 8), J=-549(LC 13), L=-420(LC 9), J=-368(LC 1)

Max Grav All reactions 250 lb or less at joint(s) M, N, O, P except B=1031(LC 13),

Q=1946(LC 1), J=365(LC 8), L=475(LC 1), R=445(LC 3)

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

TOP CHORD B-C=-448/496, C-D=-1747/1487, D-E=-804/893, E-F=-758/987, F-G=-767/1005,

G-H=-687/1151, H-I=-481/928, I-J=-1123/867

C-U=-1081/1558, T-U=-1080/1563, F-T=-517/651, P-Q=-799/613, O-P=-799/613, **BOT CHORD**

N-O=-799/613, M-N=-799/613, L-M=-799/613, J-L=-799/613

WEBS D-U=0/391, D-T=-1027/1040, E-T=-258/264, Q-T=-338/570, G-T=-1145/1426,

G-Q=-1853/1673, H-Q=-421/756

NOTES-(15)

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) zone; 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) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads
- 5) Provide adequate drainage to prevent water ponding.
- 6) All plates are MT20 plates unless otherwise indicated.
- 7) All plates are 2x4 MT20 unless otherwise indicated.
- 8) Gable studs spaced at 2-0-0 oc.
- 9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 10) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) M, N except (jt=lb) B=726, Q=1476, J=549, L=420, J=549.
- 12) This truss is designed in accordance with the 2009 International Residential Code sections R502.11.1 and R802.10.2 and Contretee അല്ലാള് anguard ANSI/TPI 1.



November 3,2016



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 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 Applicability of design paramenters and proper incorporation of component is responsibility of building designer - not truss engineer/designer. Bracing shown is for lateral support of individual web members only. Additional temporary bracing to insure stability during construction is the responsibility of the erector. Additional permanent bracing of the overall structure is the responsibility of the building designer. For general guidance regarding fabrication, quality control, storage, delivery, erection and bracing, consult

ANSI/TPH Quality Criteria, DSB-89 and BCSI1 Building Component fabrication, quality control, storage, delivery, erection and bracing, consult

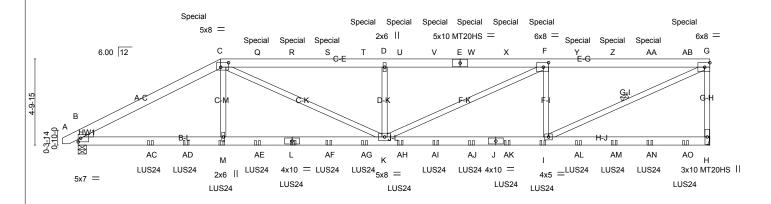
Safety Information available from Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719.



| bb | Truss | Truss Type | Qty | Ply | H&H-NC/Jessamine/Master |
|--|------------------------------|---|---------------------|------------|--|
| 2025_MASTER | A11 | GABLE | 3 | 1 | |
| Builders FirstSource, Piney Flats, | TN 37686 | I | | I . | Job Reference (optional) 7.640 s Oct 7 2015 MiTek Industries, Inc. Thu Nov 03 11:41:21 2016 Page 2 |
| | | II | D:iAmMffg3tW0gh | Nx_OkVH7 | 7Bz_9Ds-kSU7x0DCx4oXTlnX?w7kY_9kZObhfGKD7FrNTByMwxS |
| NOTES- (15) I3) This truss design regui | res that a minimum of 7/16" | structural wood sheathing be applied dire | ectly to the top ch | nord and 1 | ½" gypsum sheetrock be applied directly to the |
| bottom chord. | | | | | |
| (4) Graphical purlin repres(5) This manufactured true | entation does not depict the | size or the orientation of the purlin along | the top and/or b | ottom cho | ord. or any particular building is the responsibility of the |
| building designer per A | NSI TPI 1 as referenced by | the building code. | d use of this con | пропени | or any particular building is the responsibility of the |
| | | - | | | |
| OAD CASE(S) Standard | 1 | | | | |
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Scale: 3/16"=1



7-11-15 17-2-3 35-5-0 0-10-8 35-5-0 Plate Offsets (X Y)--[C:0-5-4 0-3-0] [F:0-3-8 0-3-0]

| i late of | 10010 (71, 1) | [0.0 0 1,0 0 0], [1 .0 0 0,0 0 0] | | _ | |
|-----------|----------------|-----------------------------------|------------|--|--|
| LOADIN | IG (psf) | SPACING- 2-0-0 | CSI. | DEFL. in (loc) I/defl L/d PLATES GRIP | |
| TCLL | 20.0 | Plate Grip DOL 1.15 | TC 0.94 | Vert(LL) -0.11 I-K >999 360 MT20 244/190 | |
| TCDL | 10.0 | Lumber DOL 1.15 | BC 0.55 | Vert(TL) -0.28 I-K >999 240 MT20HS 187/143 | |
| BCLL | 0.0 * | Rep Stress Incr NO | WB 0.90 | Horz(TL) -0.08 H n/a n/a | |
| BCDL | 10.0 | Code IRC2009/TPI2007 | (Matrix-M) | Wind(LL) 0.42 I-K >999 240 Weight: 474 lb FT = 20% | |

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

2x6 SP No.2 *Except* TOP CHORD

C-E: 2x6 SP No.1

BOT CHORD 2x6 SP No 2 2x4 SP No.2 *Except*

WEBS C-K,F-K,G-I: 2x4 SP No.1

WEDGE

Left: 2x4 SP No.3

REACTIONS. (lb/size) H=2105/Mechanical, B=2065/0-5-8 (min. 0-1-8)

Max Horz B=391(LC 6)

Max Uplift H=-3398(LC 7), B=-2829(LC 6)

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

B-C=-3544/5161, C-Q=-4431/7104, Q-R=-4431/7104, R-S=-4431/7104, S-T=-4431/7104, TOP CHORD D-T=-4431/7104, D-U=-4431/7104, U-V=-4431/7104, E-V=-4431/7104, E-W=-4431/7104,

W-X=-4431/7104, F-X=-4431/7104, F-Y=-3441/5555, Y-Z=-3441/5555, Z-AA=-3441/5555,

AA-AB=-3441/5555, G-AB=-3441/5555, G-H=-1969/3318

BOT CHORD B-AC=-4689/3057, AC-AD=-4689/3057, M-AD=-4689/3057, M-AE=-4695/3068,

L-AE=-4695/3068, L-AF=-4695/3068, AF-AG=-4695/3068, K-AG=-4695/3068, K-AH=-5555/3441, AH-AI=-5555/3441, AI-AJ=-5555/3441, J-AJ=-5555/3441,

J-AK=-5555/3441, I-AK=-5555/3441

WEBS C-M=-209/512, C-K=-2792/1615, D-K=-839/1755, F-K=-1721/1100, F-I=-1315/2501,

G-I=-6068/3761

NOTES-

1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:

Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc.

Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.

Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.

- 2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- 3) Unbalanced roof live loads have been considered for this design.
- 4) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone; end vertical left exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 5) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
- 6) Provide adequate drainage to prevent water ponding.
- 7) All plates are MT20 plates unless otherwise indicated.
- 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) Refer to girder(s) for truss to truss connections.

Continued on page 2



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

end verticals, and 2-0-0 oc purlins (6-0-0 max.): C-G.

G-I

Rigid ceiling directly applied or 6-8-12 oc bracing.

1 Row at midpt

November 3,2016

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 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

Applicability of design paramenters and proper incorporation of component is responsibility of building designer - not truss engineer/designer. Bracing shown replacements of the state of th



| Job | Truss | Truss Type | Qty | Ply | H&H-NC/Jessamine/Master | | |
|---------------|-------|-----------------|-----|-----|--------------------------|--|--|
| 812025_MASTER | A12 | HALF HIP GIRDER | 1 | 2 | Job Reference (optional) | | |
| | | | | | | | |

Builders FirstSource, Piney Flats, TN 37686

7 640 s Oct. 7 2015 MiTek Industries. Inc. Thu Nov 03 11:27:00 2016. Page 2 ID:iAmMffg3tW0ghNx_OkVH7Bz_9Ds-RpzeEco7iXKhgQS23cAq9Q?XFJpyQpGU8omJkbyMx8v

- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) H=3398, B=2829.
- 12) This truss is designed in accordance with the 2009 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 13) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
- 14) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 15) Use Simpson Strong-Tie LUS24 (4-10d Girder, 2-10d Truss, Single Ply Girder) or equivalent spaced at 2-0-0 oc max. starting at 4-0-11 from the left end to 34-0-11 to connect truss(es) J203 (1 ply 2x4 SP), J202 (1 ply 2x4 SP), J201 (1 ply 2x4 SP) to front face of bottom chord.
- 16) Fill all nail holes where hanger is in contact with lumber.
- 17) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 116 lb down and 254 lb up at 7-11-15, 129 lb down and 260 lb up at 10-0-11, 129 lb down and 260 lb up at 12-0-11, 129 lb down and 260 lb up at 14-0-11, 129 lb down and 260 lb up at 18-0-11, 129 lb down and 260 lb lb down and 260 lb up at 20-0-11, 129 lb down and 260 lb up at 22-0-11, 129 lb down and 260 lb up at 24-0-11, 129 lb down and 260 lb up at 26-0-11, 129 lb down and 260 lb up at 28-0-11, 129 lb down and 260 lb up at 30-0-11, and 129 lb down and 260 lb up at 32-0-11, and 129 lb down and 260 lb up at 34-0-11 on top chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

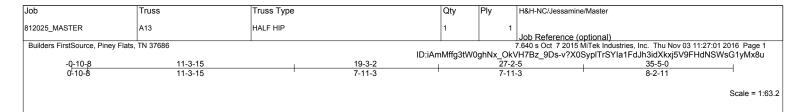
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

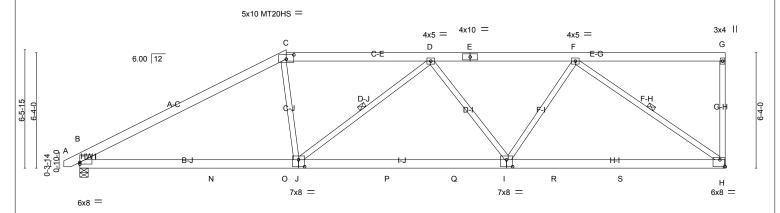
Vert: A-C=-60, C-G=-60, H-N=-20

Concentrated Loads (lb)

Vert: C=-53(F) L=-27(F) M=-27(F) F=-53(F) I=-27(F) Q=-53(F) R=-53(F) S=-53(F) U=-53(F) U=-53(F) V=-53(F) W=-53(F) X=-53(F) Y=-53(F) Z=-53(F) AA=-53(F) AB=-53(F) AC=-112(F) AD=-75(F) AE=-27(F) AF=-27(F) AG=-27(F) AH=-27(F) AI=-27(F) AJ=-27(F) AK=-27(F) AK=-27(F) AM=-27(F) AO=-27(F) AO=-27(F) AD=-27(F) AD=-2

PO Box 3850 Sumter SC 29151





11-10-11 23-6-2 0-10-8 35-5-0 Plate Offsets (X Y)--[B:Edge,0-1-3], [C:0-5-0,0-2-14], [H:Edge,0-4-8], [I:0-4-0,0-4-8], [J:0-4-0,0-4-8]

| 1 late on | 0010 (71, 17 | [D.Lago,o 1 o], [O.o o o,o L 11], [1 | 1.Lago,o 1 oj, [1.0 1 o,o 1 oj, | [0.0 1 0,0 1 0] | _ |
|-----------|--------------|--------------------------------------|---------------------------------|--|---|
| LOADIN | G (psf) | SPACING- 2-0-0 | CSI. | DEFL. in (loc) I/defl L/d PLATES GRIP | |
| TCLL | 20.0 | Plate Grip DOL 1.15 | TC 0.82 | Vert(LL) -0.16 H-I >999 360 MT20 244/190 | |
| TCDL | 10.0 | Lumber DOL 1.15 | BC 0.72 | Vert(TL) -0.42 H-I >999 240 MT20HS 187/143 | |
| BCLL | 0.0 * | Rep Stress Incr YES | WB 0.98 | Horz(TL) 0.09 H n/a n/a | |
| BCDL | 10.0 | Code IRC2009/TPI2007 | (Matrix-S) | Wind(LL) 0.23 J-M >999 240 Weight: 236 lb FT = 20% | |

LUMBER-

TOP CHORD 2x6 SP No.2

BOT CHORD 2x6 SP No.2 WFBS 2x4 SP No 3

WEDGE

Left: 2x4 SP No.3

BRACING-

TOP CHORD

Structural wood sheathing directly applied, except end verticals, and

D-J, F-H

2-0-0 oc purlins (4-11-10 max.): C-G. Rigid ceiling directly applied.

BOT CHORD WEBS 1 Row at midpt

REACTIONS. (lb/size) H=1410/Mechanical, B=1452/0-5-8 (min. 0-1-11)

Max Horz B=523(LC 8)

Max Uplift H=-1090(LC 9), B=-928(LC 8) Max Grav H=1411(LC 2), B=1452(LC 1)

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

TOP CHORD B-C=-2309/1792, C-D=-2016/1833, D-E=-1975/1583, E-F=-1975/1583, G-H=-210/259 BOT CHORD

B-N=-1832/1958, N-O=-1832/1958, J-O=-1832/1958, J-P=-1922/2164, P-Q=-1922/2164,

I-Q=-1922/2164, I-R=-1387/1548, R-S=-1387/1548, H-S=-1387/1548

C-J=-161/565, D-J=-392/494, D-I=-396/587, F-I=-363/789, F-H=-1872/1699 **WEBS**

NOTES-

- 1) Unbalanced roof live loads have been considered for this design
- 2) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) zone; end vertical left 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 basic load combinations, which include cases with reductions for multiple concurrent live loads.
- 4) Provide adequate drainage to prevent water ponding.
- 5) All plates are MT20 plates unless otherwise indicated.
- 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, with BCDL = 10.0psf.
- 8) Refer to girder(s) for truss to truss connections.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) H=1090, B=928.
- 10) This truss is designed in accordance with the 2009 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 11) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and ½" gypsum sheetrock be applied directly to the bottom chord.
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



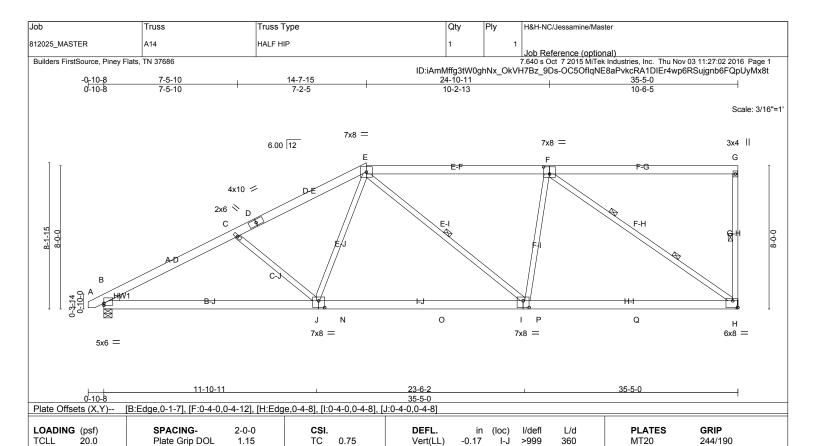
November 3,2016



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 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 Applicability of design parameters and proper incorporation of component is responsibility of building designer - not truss engineer/designer. Bracing shown replacements of the state of th





Vert(TL)

Horz(TL)

Wind(LL)

BRACING-

TOP CHORD

BOT CHORD

WEBS

-0.41

0.08

0.17

H-I >999

Н

n/a

>999

1 Row at midpt

2 Rows at 1/3 pts

240

n/a

240

2-0-0 oc purlins (5-2-1 max.): E-G.

Rigid ceiling directly applied.

Weight: 250 lb

Structural wood sheathing directly applied, except end verticals, and

G-H. E-I

F-H

FT = 20%

LUMBER-

TCDL

BCLL

BCDL

TOP CHORD 2x6 SP No.2

10.0

10.0

0.0

BOT CHORD 2x6 SP No.2 WEBS 2x4 SP No.3 *Except*

F-H: 2x4 SP No.1 WEDGE

Left: 2x4 SP No.3

REACTIONS. (lb/size) H=1410/Mechanical, B=1452/0-5-8 (min. 0-1-11)

Max Horz B=668(LC 8)

Max Uplift H=-1077(LC 9), B=-956(LC 8)

Max Grav H=1436(LC 2), B=1452(LC 1)

Lumber DOL

Rep Stress Incr

Code IRC2009/TPI2007

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

TOP CHORD B-C=-2399/1989, C-D=-2097/1711, D-E=-2022/1744, E-F=-1618/1368, G-H=-257/327 BOT CHORD B-J=-2263/2051, J-N=-1608/1646, N-O=-1608/1646, I-O=-1608/1646, I-P=-1355/1521,

1.15

YES

B-J=-2203/2001, J-N=-1006/1040, N-O=-1006/1040, I-O=-1006/1040, I-P=-1303/1021,

P-Q=-1355/1521, H-Q=-1355/1521

WEBS C-J=-356/712, E-J=-333/564, E-I=-117/345, F-I=-72/539, F-H=-1845/1653

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) zone; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

BC

WB

(Matrix-S)

0.74

0.90

- 3) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
- 4) Provide adequate drainage to prevent water ponding.
- 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, with BCDL = 10.0psf.
- 7) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) H=1077, B=956.
- This truss is designed in accordance with the 2009 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and ½" gypsum sheetrock be applied directly to the bottom chord.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



November 3,2016

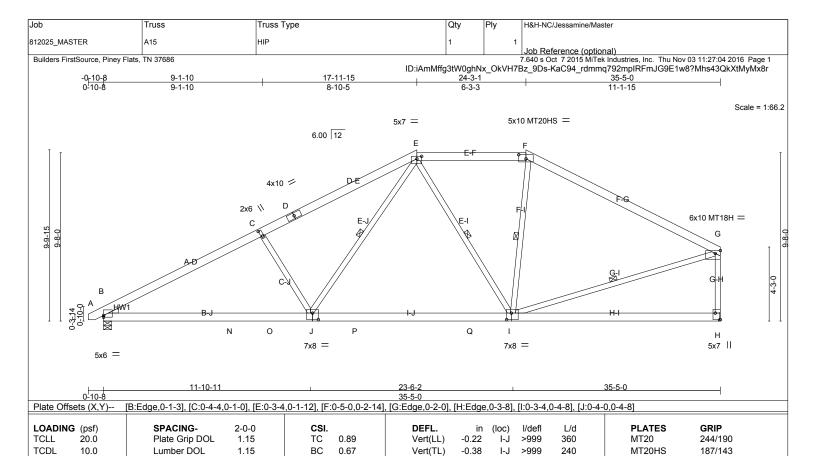


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ANSITPH Quality Criteria, DSB-89 and BCSI1 Building Component Safety Information available from Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719.





Horz(TL)

Wind(LL)

BRACING-TOP CHORD

BOT CHORD

WEBS

0.05

0.15

Н

n/a

>999

1 Row at midpt

n/a

240

2-0-0 oc purlins (6-0-0 max.): E-F.

Rigid ceiling directly applied.

LUMBER-

BCLL

BCDL

TOP CHORD 2x6 SP No.2

0.0

10.0

BOT CHORD 2x6 SP No.2 2x4 SP No.3 *Except* WFBS G-H: 2x4 SP No.1

WEDGE

Left: 2x4 SP No.3

REACTIONS. (lb/size) B=1452/0-5-8 (min. 0-1-11), H=1410/Mechanical

Rep Stress Incr

Code IRC2009/TPI2007

Max Horz B=488(LC 8)

Max Uplift B=-1029(LC 8), H=-875(LC 9)

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

TOP CHORD B-C=-2367/2098, C-D=-2135/2024, D-E=-2026/2064, E-F=-1259/1468, F-G=-1529/1384,

YES

G-H=-1300/1313

BOT CHORD B-N=-1975/2024, N-O=-1975/2024, J-O=-1975/2024, J-P=-1091/1356, P-Q=-1091/1356,

I-Q=-1091/1356

WFBS C-J=-483/904, E-J=-754/857, E-I=-329/364, F-I=-81/284, G-I=-883/1217

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) zone; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

WB

(Matrix-S)

0.67

- 3) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
- 4) Provide adequate drainage to prevent water ponding.
- 5) All plates are MT20 plates unless otherwise indicated.
- 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, with BCDL = 10.0psf.
- 8) Refer to girder(s) for truss to truss connections.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) B=1029, H=875.
- 10) This truss is designed in accordance with the 2009 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 11) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and ½" gypsum sheetrock be applied directly to the bottom chord.
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



MT18H

Structural wood sheathing directly applied, except end verticals, and

E-J. E-I. F-I. G-I

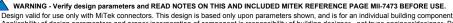
Weight: 253 lb

244/190

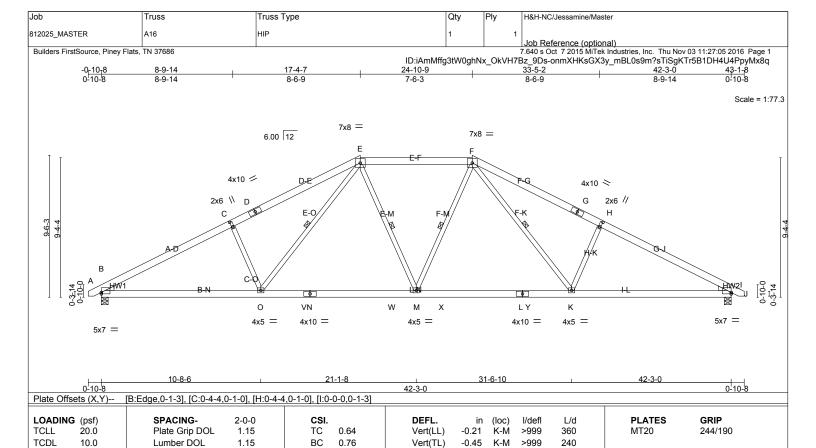
FT = 20%

November 3,2016

MOTLEY STRUCTURAL DESIGN







LUMBER-

BCLL

BCDL

TOP CHORD 2x6 SP No.2

0.0

10.0

2x6 SP No.2 **BOT CHORD** 2x4 SP No.3 WFBS

WEDGE

BOT CHORD

Left: 2x4 SP No.3, Right: 2x4 SP No.3

Wind(LL) BRACING-

Horz(TL)

TOP CHORD Structural wood sheathing directly applied, except

M-O

0.12

0.23

2-0-0 oc purlins (4-11-0 max.): E-F.

n/a

240

Weight: 288 lb

FT = 20%

BOT CHORD Rigid ceiling directly applied. WEBS

1 Row at midpt E-O, E-M, F-M, F-K

n/a

>999

REACTIONS. (lb/size) B=1731/0-5-8 (min. 0-2-1), I=1731/0-5-8 (min. 0-2-1)

Max Horz B=-253(LC 9)

Max Uplift B=-1186(LC 8), I=-1186(LC 9)

Rep Stress Incr

Code IRC2009/TPI2007

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

B-C=-2954/2626, C-D=-2781/2686, D-E=-2684/2725, E-F=-2104/2138, F-G=-2684/2725, TOP CHORD G-H=-2781/2686, H-I=-2954/2626

YES

B-O=-2080/2537, O-V=-1305/2007, N-V=-1305/2007, N-W=-1305/2007, M-W=-1305/2007,

 $M-X = -1306/2007, \ L-X = -1306/2007, \ L-Y = -1306/2007, \ K-Y = -1306/2007, \ I-K = -2082/2537$ **WEBS**

C-O=-427/827, E-O=-766/722, E-M=-84/376, F-M=-84/376, F-K=-765/722, H-K=-427/827

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

2) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) zone; 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

WB

(Matrix-S)

0.48

3) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.

4) Provide adequate drainage to prevent water ponding.

- 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, with BCDL = 10.0psf.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) B=1186, I=1186.
- 8) This truss is designed in accordance with the 2009 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and ½" gypsum sheetrock be applied directly to the bottom chord.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



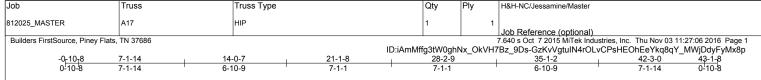
November 3,2016



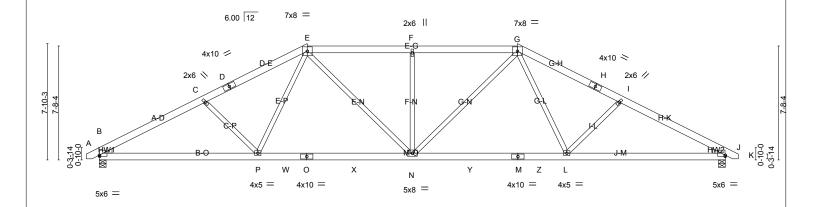
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Scale = 1:77.7



| LOADIN | NG (psf) | SPACING- 2-0-0 | CSI. | DEFL. in (loc) I/def | fl L/d | PLATES GRIP |
|--------|----------|----------------------|------------|-------------------------|--------|-------------------------|
| TCLL | 20.0 | Plate Grip DOL 1.15 | TC 0.64 | Vert(LL) -0.20 N-P >999 | 9 360 | MT20 244/190 |
| TCDL | 10.0 | Lumber DOL 1.15 | BC 0.69 | Vert(TL) -0.45 N-P >999 | 9 240 | |
| BCLL | 0.0 * | Rep Stress Incr YES | WB 0.88 | Horz(TL) 0.13 J n/ | a n/a | |
| BCDL | 10.0 | Code IRC2009/TPI2007 | (Matrix-S) | Wind(LL) 0.24 N-P >999 | 9 240 | Weight: 289 lb FT = 20% |

BRACING-

TOP CHORD

BOT CHORD

Structural wood sheathing directly applied, except

2-0-0 oc purlins (4-5-4 max.): E-G.

Rigid ceiling directly applied.

LUMBER-

TOP CHORD 2x6 SP No.2

BOT CHORD 2x6 SP No.2 WEBS 2x4 SP No.3

WEBS 2x4 SP No

WEDGE

Left: 2x4 SP No.3, Right: 2x4 SP No.3

REACTIONS. (lb/size) B=1731/0-5-8 (min. 0-2-1), J=1731/0-5-8 (min. 0-2-1)

Max Horz B=208(LC 8)

Max Uplift B=-1139(LC 8), J=-1139(LC 9)

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

TOP CHORD B-C=-2983/2640, C-D=-2716/2461, D-E=-2626/2487, E-F=-2530/2476, F-G=-2530/2476,

G-H=-2626/2487, H-I=-2716/2461, I-J=-2983/2640 BOT CHORD B-P=-2121/2563, P-W=-1552/2187, O-W=-1552/2187, O-X=-1552/2187, N-X=-1552/2187, N-X=-

N-Y=-1553/2187, M-Y=-1553/2187, M-Z=-1553/2187, L-Z=-1553/2187, J-L=-2124/2563

C-P = -300/627, E-P = -324/501, E-N = -457/630, F-N = -483/600, G-N = -457/630, G-L = -324/501, G-N = -457/630, G-N = -457/6

I-L=-300/627

NOTES-

WEBS

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) zone; 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 basic load combinations, which include cases with reductions for multiple concurrent live loads.
- 4) Provide adequate drainage to prevent water ponding.
- 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, with BCDL = 10.0psf.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) B=1139, J=1139.
- 8) This truss is designed in accordance with the 2009 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and ½" gypsum sheetrock be applied directly to the bottom chord.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



November 3,2016



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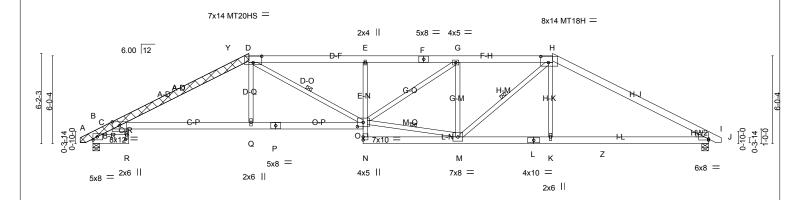
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| Truss | Trus

Scale = 1:79.1



25-8 1 10-8-7 18-6-8 25-0-9 31-6-9 42-3-0 10-10-8
Plate Offsets (X Y)- [C:0-6-0 0-3-2] [D:0-7-0 0-5-4] [H:0-6-4 0-5-0] [I:Edge 0-0-15] [O:0-4-12 0-3-8] [R:0-3-12 0-1-0]

TOP CHORD

BOT CHORD

WEBS

Structural wood sheathing directly applied, except

D-O, M-O, H-M

2-0-0 oc purlins (3-5-5 max.): D-H.

Rigid ceiling directly applied.

1 Row at midpt

| | 3010 (71, 17 | [0.0 0 0,0 0 2], [2.0 . 0,0 0 .], [0 0 | ito o oli liimagoto o ioli l | 0.02,0 0 0]; [0 .2,0 . 0] | - |
|---------|--------------|--|------------------------------|-----------------------------|-------------------------|
| LOADING | G (psf) | SPACING- 2-0-0 | CSI. | DEFL. in (loc) I/defl L/d | PLATES GRIP |
| TCLL | 20.0 | Plate Grip DOL 1.15 | TC 0.94 | Vert(LL) -0.30 C-Q >999 360 | MT20 244/190 |
| TCDL | 10.0 | Lumber DOL 1.15 | BC 0.67 | Vert(TL) -0.78 C-Q >650 240 | MT20HS 187/143 |
| BCLL | 0.0 * | Rep Stress Incr YES | WB 0.75 | Horz(TL) 0.40 l n/a n/a | MT18H 244/190 |
| BCDL | 10.0 | Code IRC2009/TPI2007 | (Matrix-S) | Wind(LL) 0.58 C-Q >877 240 | Weight: 349 lb FT = 20% |

LUMBER- BRACING-

TOP CHORD 2x6 SP No.2
BOT CHORD 2x6 SP No.2 *Except*

B-R: 2x8 SP DSS, C-P: 2x6 SP DSS, E-N: 2x4 SP No.2

WEBS 2x4 SP No.3 *Except*

C-R,M-O: 2x4 SP No.2

OTHERS 2x6 SP No.2

LBR SCAB A-D 2x6 SP No.2 both sides

WEDGE

Right: 2x4 SP No.3

REACTIONS. (lb/size) B=1743/0-5-8 (min. 0-2-1), I=1732/0-5-8 (min. 0-2-1)

Max Horz B=164(LC 8)

Max Uplift B=-1077(LC 8), I=-1083(LC 9)

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

TOP CHORD B-C=-711/704, C-Y=-3454/2832, D-Y=-3227/2836, D-E=-3861/3441, E-F=-3835/3424,

F-G=-3835/3424, G-H=-3115/2853, H-I=-2908/2424

BOT CHORD C-Q=-2273/3100, P-Q=-2276/3111, O-P=-2276/3111, E-O=-452/579, M-N=-381/467,

L-M=-1848/2479, K-L=-1848/2479, K-Z=-1849/2474, I-Z=-1849/2474 C-R=-367/483, D-Q=-42/478, D-O=-913/1026, M-O=-1981/2696, G-O=-685/880,

G-M=-949/886, H-M=-837/999, H-K=0/357

NOTES:

WEBS

- 1) Attached 13-1-1 scab A to D, both face(s) 2x6 SP No.2 with 2 row(s) of 10d (0.131"x3") nails spaced 9" o.c.except: starting at 0-0-4 from end at joint A, nail 3 row(s) at 7" o.c. for 3-11-0.
- 2) Unbalanced roof live loads have been considered for this design.
- 3) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) zone; 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
- 4) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
- 5) Provide adequate drainage to prevent water ponding.
- 6) All plates are MT20 plates unless otherwise indicated.
- 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, with BCDL = 10.0psf.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) B=1077. I=1083.
- 10) This truss is designed in accordance with the 2009 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 11) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and ½" gyps.
- 11) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and ½" gypsum sheetrock be applied directly to the bottom chord.

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

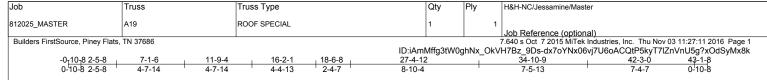


November 3,2016

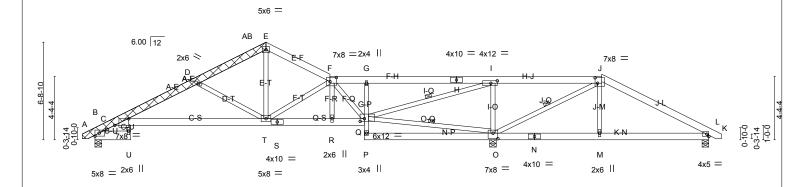
MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 BEFORE USE.



| Job | Truss | Truss Type | Qty | Ply | H&H-NC/Jessamine/Master |
|------------------------------------|--------------------------------------|--|----------------|----------|---|
| 812025_MASTER | A18 | HIP | 1 | 1 | |
| Builders FirstSource, Piney Flats, | | | | | Job Reference (optional) 7.640 s Oct 7.2015 MiTek Industries, Inc., Thu Nov 03.11:27:10.2016, Page 2 |
| | | ID:iAm | Mffg3tW0gh | nNx_OkVF | Job Reference (optional) 7.640 s Oct 7 2015 MiTek Industries, Inc. Thu Nov 03 11:27:10 2016 Page 2 47Bz_9Ds-9kaQL1wOLcaGtzDzeiMAZXPEiLBPmO6yRLBr50yMx8I |
| LOAD CASE(S) Standard | | | | | |
| LOAD OAGE(G) Glandald | | | | | |
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| WARNING - Verify dee | ign parameters and RFAD NOTES | ON THIS AND INCLUDED MITEK REFERENCE PAGE MIL- | 473 BEFORE | USE. | |
| Design valid for use only w | ith MiTek connectors. This design is | based only upon parameters shown, and is for an individu | l huilding cor | nnonent | MCD MOTIFY |



Scale = 1:79.3



16-2-1 0-10-8 0-10-8 42-3-0 Plate Offsets (X,Y)--[C:0-11-8,0-5-6], [F:0-5-4,0-3-8], [I:0-5-4,0-2-0], [J:0-2-0,0-4-8], [O:0-4-0,0-4-8], [Q:0-3-8,0-2-4]

| LOADING TCLL TCDL | (psf) 20.0 10.0 | SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 | CSI. TC 0.65 BC 0.53 | DEFL . i Vert(LL) -0.13 Vert(TL) -0.39 | | I/defl >999 >842 | L/d 360 240 | PLATES MT20 | GRIP 244/190 |
|-------------------------|-----------------------|--|----------------------------|---|---|------------------------|-------------------|----------------|---------------------|
| BCLL BCDL | 0.0 * 10.0 | Rep Stress Incr YES Code IRC2009/TPI2007 | WB 0.99 (Matrix-S) | Horz(TL) 0.18 Wind(LL) 0.26 | 0 | n/a >999 | n/a 240 | Weight: 365 lb | FT = 20% |

LUMBER-**BRACING-**

TOP CHORD 2x6 SP No.2 TOP CHORD Structural wood sheathing directly applied, except

2x6 SP No.2 *Except* 2-0-0 oc purlins (6-0-0 max.): F-J. **BOT CHORD** B-U: 2x8 SP DSS, G-P: 2x4 SP No.2 **BOT CHORD** Rigid ceiling directly applied.

2x4 SP No.3 *Except* WEBS WEBS J-O. O-Q. I-Q

1 Row at midpt C-U: 2x4 SP No.2

2x6 SP No 2 OTHERS A-E 2x6 SP No.2 both sides LBR SCAB

REACTIONS. (lb/size) B=943/0-5-8 (min. 0-1-8), O=2299/0-5-8 (min. 0-2-11), K=232/0-5-8 (min. 0-1-8)

Max Horz B=181(LC 8)

Max Uplift B=-671(LC 8), O=-1591(LC 9), K=-311(LC 9) Max Grav B=943(LC 1), O=2299(LC 1), K=312(LC 14)

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

B-C=-359/425, C-D=-1735/1595, D-AB=-1206/1122, E-AB=-1087/1146, E-F=-1169/1136, TOP CHORD

 $F-G=-999/1068,\ G-H=-1005/1087,\ H-I=-1005/1087,\ I-J=-915/1332,\ J-K=-176/271$

C-T=-1267/1614, S-T=-943/1309, R-S=-943/1309, Q-R=-938/1307, G-Q=-398/523,

N-O=-203/268, M-N=-203/268, K-M=-209/266

WEBS C-U=-186/258, D-T=-702/856, E-T=-640/766, F-T=-453/552, F-Q=-480/389, I-O=-1303/1322, J-O=-1376/1181, J-M=0/286, O-Q=-1227/1083, I-Q=-2045/2403

BOT CHORD

- 1) Attached 14-3-6 scab A to E, both face(s) 2x6 SP No.2 with 2 row(s) of 10d (0.131"x3") nails spaced 9" o.c.except: starting at 0-0-4 from end at joint A, nail 2 row(s) at 7" o.c. for 3-11-0.
- 2) Unbalanced roof live loads have been considered for this design.
- 3) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) zone; 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
- 4) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
- 5) Provide adequate drainage to prevent water ponding.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads
- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) B=671, O=1591, K=311.
- 9) This truss is designed in accordance with the 2009 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and ½" gypsum sheetrock be applied directly to the bottom chord.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

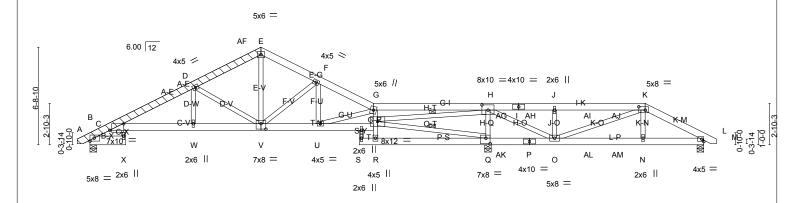


November 3,2016

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

Job Truss Truss Type Qty H&H-NC/Jessamine/Master 812025 MASTER A20 ROOF SPECIAL GIRDER Job Reference (optional)
7.640 s Oct 7 2015 MiTek Industries, Inc. Thu Nov 03 11:27:14 2016 Page 1
ID:iAmMffg3tW0ghNx_OkVH7Bz_9Ds-1WpxAPzvPq5iLaXktYQ6jNazwyUQi92YMz93EnyMx8h Builders FirstSource, Piney Flats, TN 37686 -0₁10₁8 2-5-8 0-10-8 2-5-8 31-11-12 42-3-0 7-10-11 4-7-0 4-0-7

Scale = 1:79.3



0-10-8 42-3-0 0-10-8

| 1 late Off | 3Ct3 (X, 1) | [0.0 11 0,0 0 0], [11.0 0 0, | 0,0 0 0], [11.0 0 0,0 4 4], [10.0 0 4,0 2 12], [0.0 0 0,0 4 0], [10.0 4 0,0 4 0] | | | | | | | | | | _ |
|------------|-------------|------------------------------|--|-------|-------|----------|-------|-------|--------|-----|----------------|----------|---|
| LOADIN | G (psf) | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP | |
| TCLL | 20.0 | Plate Grip DOL | 1.15 | TC | 0.74 | Vert(LL) | -0.19 | S | >999 | 360 | MT20 | 244/190 | |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.92 | Vert(TL) | -0.48 | S | >678 | 240 | | | |
| BCLL | 0.0 * | Rep Stress Incr | NO | WB | 0.88 | Horz(TL) | 0.19 | Q | n/a | n/a | | | |
| BCDL | 10.0 | Code IRC2009/TPI | 12007 | (Matr | ix-M) | Wind(LL) | 0.38 | S | >855 | 240 | Weight: 336 lb | FT = 20% | |

LUMBER-**BRACING-**

Structural wood sheathing directly applied or 6-0-0 oc purlins, except TOP CHORD 2x6 SP No.2 TOP CHORD

2x6 SP No.2 *Except* 2-0-0 oc purlins (6-0-0 max.): G-K. **BOT CHORD** B-X: 2x8 SP DSS, G-R,S-Y: 2x4 SP No.2 BOT CHORD

Rigid ceiling directly applied or 4-6-12 oc bracing. Except: WEBS 2x4 SP No.2 10-0-0 oc bracing: R-T

2x6 SP No.2 **OTHERS** WEBS 1 Row at midpt

Q-T, H-T LBR SCAB A-E 2x6 SP No.2 one side

REACTIONS. (lb/size) B=926/0-5-8 (min. 0-1-8), Q=2355/0-5-8 (min. 0-2-12), L=211/0-5-8 (min. 0-1-8) Max Horz B=181(LC 17)

Max Uplift B=-671(LC 17), Q=-2132(LC 7), L=-557(LC 7)

Max Grav B=926(LC 1), Q=2355(LC 1), L=273(LC 12)

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

TOP CHORD B-C=-349/416, C-D=-1756/1172, D-AF=-1109/776, E-AF=-1008/798, E-F=-1078/804,

F-G=-1370/971, G-H=-1177/1062, H-AG=-954/982, I-AG=-954/982, I-AH=-954/982,

J-AH=-954/982, J-AI=-954/982, AI-AJ=-954/982, K-AJ=-954/982, K-L=-410/913 C-W=-1048/1591, V-W=-1050/1592, U-V=-580/1204, T-U=-843/1230, G-T=-845/712,

Q-AK=-2212/1538, P-AK=-2212/1538, O-P=-2212/1538, O-AL=-732/434, AL-AM=-732/434,

N-AM=-732/434, L-N=-728/432

WFBS C-X=-220/318, D-W=-15/273, D-V=-800/773, E-V=-490/720, Q-T=-2339/1572,

H-T=-2353/3578, H-Q=-1816/1864, H-O=-1688/1400, J-O=-241/517, K-O=-1123/785,

F-V=-416/474, G-U=-175/286

NOTES-

BOT CHORD

- 1) Attached 14-3-6 scab A to E, front face(s) 2x6 SP No.2 with 2 row(s) of 10d (0.131"x3") nails spaced 9" o.c.except: starting at 0-0-4 from end at joint A, nail 2 row(s) at 4" o.c. for 3-11-0.
- 2) Unbalanced roof live loads have been considered for this design.
- 3) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 4) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
- 5) Provide adequate drainage to prevent water ponding.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) B=671, Q=2132, L=557,
- 9) This truss is designed in accordance with the 2009 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

Continued on page 2



November 3,2016



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 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 Applicability of design paramenters and proper incorporation of component is responsibility of building designer - not truss engineer/designer. Bracing shown is for lateral support of individual web members only. Additional temporary bracing to insure stability during construction is the responsibility of the erector. Additional permanent bracing of the overall structure is the responsibility of the building designer. For general guidance regarding fabrication, quality control, storage, delivery, erection and bracing, consult

ANSI/TPH Quality Criteria, DSB-89 and BCSI1 Building Component fabrication, quality control, storage, delivery, erection and bracing, consult

ANSI/TPI1 (
Safety Information available from Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719.



| Job | Truss | Truss Type | Qty | Ply | H&H-NC/Jessamine/Master |
|----------------------------------|----------|---------------------|-----|-----|---|
| 812025_MASTER | A20 | ROOF SPECIAL GIRDER | 1 | 1 | |
| | | | | | Job Reference (optional) |
| Builders FirstSource Piney Flats | TN 37686 | | | - | 7 640 s Oct 7 2015 MiTek Industries Inc. Thu Nov 03 11:27:14 2016 Page 2 |

ID:iAmMffg3tW0ghNx_OkVH7Bz_9Ds-1WpxAPzvPq5iLaXktYQ6jNazwyUQi92YMz93EnyMx8h

12) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 108 lb down and 106 lb up at 28-1-13, 108 lb down and 106 lb up at 30-1-13, 108 lb down and 106 lb up at 32-1-13, 108 lb down and 106 lb up at 34-1-13, and 108 lb down and 106 lb up at 38-2-9 on top chord, and 8 lb down and 65 lb up at 28-1-13, 8 lb down and 65 lb up at 34-1-13, 8 lb down and and 8 lb down and 65 lb up at 36-1-13, and 89 lb up at 38-1-13 on bottom chord. The design/selection of such connection device(s) is the responsibility of others. 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 + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

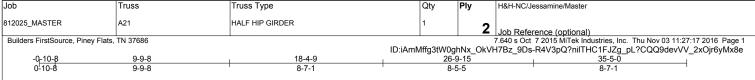
Vert: A-E=-60, E-G=-60, G-K=-60, K-M=-60, X-Z=-20, C-T=-20, R-S=-20, R-AC=-20

Concentrated Loads (lb)

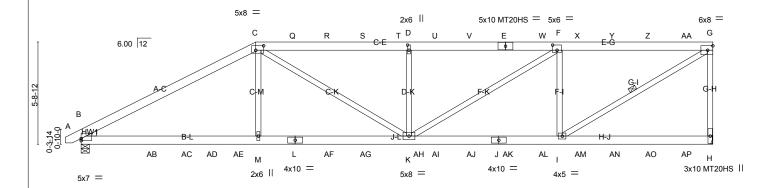
Vert: P=1(B) O=1(B) N=1(B) AK=1(B) AL=1(B) AM=1(B)



PO Box 3850 Sumter SC 29151



Scale: 3/16"=1



26-9<u>-15</u> 18-4-9 35-5-0 0-10-8 35-5-0 [B:Edge 0-1-7] [C:0-5-4 0-3-0] [D:0-3-8 0-1-0] [E:0-3-0 0-3-8]

| I late Olis | iate Offices (X, 1) [B.Euge,0-1-7], [O.0-0-4,0-0-0], [D.0-0-0,0-1-0], [1.0-0-0,0-0-0] | | | | | | | | | | | | |
|-----------------|---|----------------------------|---------------|-------|-------|-------------------|-------------|-------|----------------|------------|----------------|---------------------|--|
| LOADING TCLL | G (psf) 20.0 | SPACING- Plate Grip DOL | 2-0-0 1.15 | CSI. | 0.98 | DEFL. Vert(LL) | in -0.08 | (loc) | l/defl >999 | L/d 360 | PLATES MT20 | GRIP 244/190 | |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.50 | Vert(TL) | -0.00 | I-K | >999 | 240 | MT20HS | 187/143 | |
| BCLL | 0.0 * | Rep Stress Incr | NO | WB | 0.90 | Horz(TL) | -0.20 | H | n/a | n/a | WITZUNS | 107/143 | |
| BCDL | 10.0 | Code IRC2009/TP | 12007 | (Matr | ix-M) | Wind(LL) | 0.37 | K-M | >999 | 240 | Weight: 485 lb | FT = 20% | |

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

TOP CHORD 2x6 SP No.2 *Except*

C-E: 2x6 SP No.1

2x6 SP No.2 BOT CHORD

2x4 SP No.2 *Except* **WEBS**

C-K,F-K,G-I: 2x4 SP No.1

WEDGE

Left: 2x4 SP No.3

REACTIONS. (lb/size) H=2051/Mechanical, B=1991/0-5-8 (min. 0-1-8)

Max Horz B=470(LC 6)

Max Uplift H=-4120(LC 7), B=-3257(LC 6)

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

B-C=-3321/5871, C-Q=-3561/7114, Q-R=-3561/7114, R-S=-3561/7114, S-T=-3561/7114, TOP CHORD D-T=-3561/7114, D-U=-3561/7114, U-V=-3561/7114, E-V=-3561/7114, E-W=-3561/7114,

 $F-W=-3561/7114,\ F-X=-2658/5362,\ X-Y=-2658/5362,\ Y-Z=-2658/5362,\ Z-AA=-2658/5362,\ Z-AA=-2658/536$

G-AA=-2658/5362, G-H=-1931/3997

B-AB=-5355/2841, AB-AC=-5355/2841, AC-AD=-5355/2841, AD-AE=-5355/2841, BOT CHORD

M-AE=-5355/2841, L-M=-5368/2852, L-AF=-5368/2852, AF-AG=-5368/2852,

AG-AH=-5368/2852, K-AH=-5368/2852, K-AI=-5362/2658, AI-AJ=-5362/2658,

J-AJ=-5362/2658, J-AK=-5362/2658, AK-AL=-5362/2658, I-AL=-5362/2658

C-M=-470/536, C-K=-2225/974, D-K=-762/1910, F-K=-2065/1064, F-I=-1330/2993,

G-I=-6241/3096

NOTES-

WEBS

1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:

Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc.

Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.

Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.

- 2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- 3) Unbalanced roof live loads have been considered for this design.
- 4) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone; end vertical left exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 5) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
- 6) Provide adequate drainage to prevent water ponding.
- 7) All plates are MT20 plates unless otherwise indicated.
- 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, with BCDL = 10.0psf.
- 10) Refer to girder(s) for truss to truss connections.

Continued on page 2



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

end verticals, and 2-0-0 oc purlins (6-0-0 max.): C-G.

G-I

Rigid ceiling directly applied or 6-5-13 oc bracing.

1 Row at midpt

November 3,2016

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

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ANSI/TPI1 (
Safety Information available from Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719.



| Job | Truss | Truss Type | Qty | Ply | H&H-NC/Jessamine/Master |
|---------------|-------|-----------------|-----|-----|--------------------------|
| 312025_MASTER | A21 | HALF HIP GIRDER | 1 | 2 | Job Reference (optional) |
| | | | | | |

Builders FirstSource, Piney Flats, TN 37686

7 640 s Oct 7 2015 MiTek Industries, Inc. Thu Nov 03 11:27:17 2016, Page 2 ID:iAmMffg3tW0ghNx_OkVH7Bz_9Ds-R4V3pQ?nilTHC1FJZg_pL?CQQ9devVV_2xOjr6yMx8e

- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) H=4120, B=3257.
- 12) This truss is designed in accordance with the 2009 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 13) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
- 14) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 15) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 120 lb down and 311 lb up at 9-9-8, 132 lb down and 316 lb up at 11-10-4, 132 lb down and 316 lb up at 13-10-4, 132 lb down and 316 lb up at 15-10-4, 132 lb down and 316 lb up at 17-10-4, 132 lb down and 316 lb up at 19-10-4, 132 lb down and 316 lb up at 21-10-4, 132 lb down and 316 lb up at 23-10-4, 132 lb down and 316 lb up at 25-10-4, 132 lb down and 316 lb up at 27-10-4, 132 lb down and 316 lb up at 29-10-4, and 132 lb down and 316 lb up at 31-10-4, and 132 lb down and 316 lb up at 33-10-4 on top chord, and 69 lb down and 119 lb up at 3-10-4, 52 lb down and 122 lb up at 5-10-4, 85 lb down and 290 lb up at 7-10-4, 37 lb down and 95 lb up at 9-10-4, 37 lb down and 95 lb up at 11-10-4, 37 lb down and 95 lb up at 13-10-4, 37 lb down and 95 lb up at 15-10-4, 37 lb down and 95 lb up at 17-10-4, 37 lb down and 95 lb up at 21-10-4, 37 lb down and 95 lb and 95 lb up at 23-10-4, 37 lb down and 95 lb up at 25-10-4, 37 lb down and 95 lb up at 27-10-4, 37 lb down and 95 lb up at 29-10-4, and 37 lb down and 95 lb up at 31-10-4, and 37 lb down and 95 lb up at 33-10-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

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

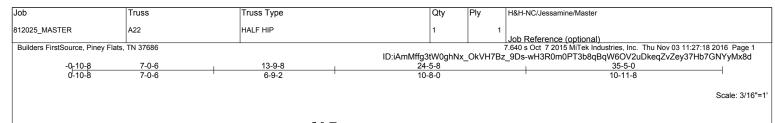
Uniform Loads (plf)

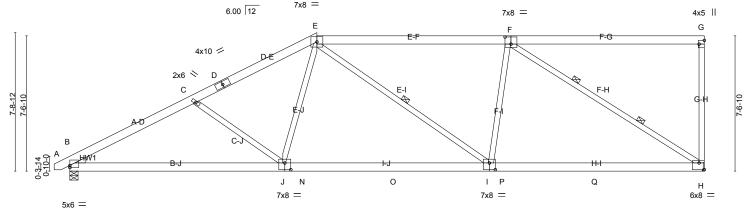
Vert: A-C=-60, C-G=-60, H-N=-20

Concentrated Loads (lb)

Vert: C=-48(F) E=-48(F) L=-27(F) M=-27(F) Q=-48(F) R=-48(F) S=-48(F) T=-48(F) U=-48(F) V=-48(F) W=-48(F) X=-48(F) Y=-48(F) Z=-48(F) AA=-48(F) AB=-64(F) AB=-

AC=-52(F) AE=-85(F) AF=-27(F) AG=-27(F) AH=-27(F) AI=-27(F) AJ=-27(F) AK=-27(F) AM=-27(F) AM=-27(F) AO=-27(F) AO=-27(F) AP=-27(F) AD=-27(F) AD=-27





11-10-11 23-6-2 35-5-0
0-10-8 35-5-0
Plate Offsets (X,Y)-- [B:Edge,0-1-7], [F:0-4-0.0-4-12], [G:Edge,0-3-8], [H:Edge,0-4-8], [I:0-4-0.0-4-8], [J:0-4-0.0-4-8]

| 1 late Offsets (X,1) [B.Euge,0-1-7], [1:0-4-0,0-4-12], [O.Euge,0-0-0], [1:1.Euge,0-4-0], [1:0-4-0,0-4-0] | | | | | | | | | | | | |
|--|---------|------------------|-------|-------|-------|----------|-------|-------|--------|-----|----------------|----------|
| LOADIN | G (psf) | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
| TCLL | 20.0 | Plate Grip DOL | 1.15 | TC | 0.81 | Vert(LL) | -0.16 | I-J | >999 | 360 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.72 | Vert(TL) | -0.41 | H-I | >999 | 240 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.94 | Horz(TL) | 0.08 | Н | n/a | n/a | | |
| BCDL | 10.0 | Code IRC2009/TPI | 12007 | (Matr | ix-S) | Wind(LL) | 0.18 | I-J | >999 | 240 | Weight: 248 lb | FT = 20% |

LUMBER- BRACING-

TOP CHORD 2x6 SP No.2 TOP CHORD

BOT CHORD 2x6 SP No.2 2x4 SP No.3 *Except* 2-0-0 oc purlins (4-10-14 max.): E-G. Rigid ceiling directly applied.

F-H: 2x4 SP No.1 WEBS 1 Row at midpt E-I
WEDGE 2 Rows at 1/3 pts F-H

Left: 2x4 SP No.3

REACTIONS. (lb/size) H=1410/Mechanical, B=1452/0-5-8 (min. 0-1-11)

Max Horz B=630(LC 8)

Max Uplift H=-1081(LC 9), B=-950(LC 8) Max Grav H=1418(LC 2), B=1452(LC 1)

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

TOP CHORD B-C=-2403/2011, C-D=-2094/1719, D-E=-1956/1744, E-F=-1710/1455, G-H=-263/333 BOT CHORD B-J=-2244/2055, J-N=-1657/1711, N-O=-1657/1711, I-O=-1657/1711, I-P=-1452/1633,

B-J=-2244/2000, J-N=-100//1/11, N-O=-100//1/11, I-O=-100//1/11, I-P=-1402/1000,

P-Q=-1452/1633, H-Q=-1452/1633

WEBS C-J=-314/652, E-J=-244/533, E-I=-152/299, F-I=-23/523, F-H=-1923/1720

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) zone; end vertical left 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 basic load combinations, which include cases with reductions for multiple concurrent live loads.
- 4) Provide adequate drainage to prevent water ponding.
- 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, with BCDL = 10.0psf.
- 7) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) H=1081, B=950.
- This truss is designed in accordance with the 2009 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and ½" gypsum sheetrock be applied directly to the bottom chord.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



Structural wood sheathing directly applied, except end verticals, and

November 3,2016

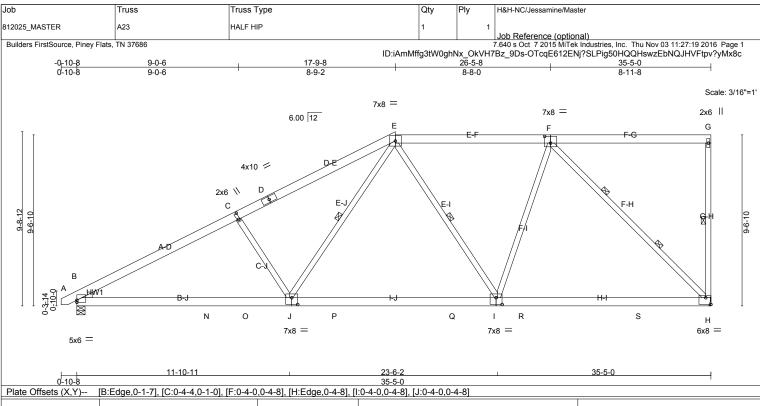


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| LOADING TCLL TCDL BCLL | (psf) 20.0 10.0 0.0 * | SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr | 2-0-0 1.15 1.15 YES | CSI. TC BC WB | 0.59 0.79 0.88 | DEFL. Vert(LL) Vert(TL) Horz(TL) | in -0.20 -0.45 0.07 | (loc) H-l H-l H | l/defl >999 >944 n/a | L/d 360 240 n/a | PLATES MT20 | GRIP 244/190 |
|---------------------------------|--------------------------------|---|------------------------------|------------------------|----------------------|---|------------------------------|--------------------------|-------------------------------|--------------------------|----------------|---------------------|
| BCDL | 10.0 | Code IRC2009/TPI2 | | (Matri | | Wind(LL) | 0.07 | H I-J | n/a >999 | n/a 240 | Weight: 257 lb | FT = 20% |
| | | | | , | - / | , | | | | | | |

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

TOP CHORD 2x6 SP No.2

BOT CHORD 2x6 SP No.2 WEBS 2x4 SP No.3 *Except*

F-H: 2x4 SP No.2 WEDGE

Left: 2x4 SP No.3

REACTIONS. (lb/size) H=1410/Mechanical, B=1452/0-5-8 (min. 0-1-12)

Max Horz B=803(LC 8)

Max Uplift H=-1061(LC 9), B=-968(LC 8) Max Grav H=1506(LC 2), B=1457(LC 2)

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

TOP CHORD B-C=-2435/1879, C-D=-2201/1788, D-E=-2098/1827, E-F=-1374/1146, G-H=-219/278

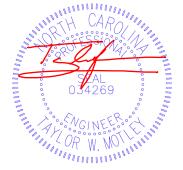
BOT CHORD B-N=-2286/2087, N-O=-2286/2087, J-O=-2286/2087, J-P=-1424/1464, P-Q=-1424/1464,

I-Q=-1424/1464, I-R=-1042/1149, R-S=-1042/1149, H-S=-1042/1149 C-J=-464/883, E-J=-718/790, E-I=-269/538, F-I=-318/702, F-H=-1624/1487

WEBS

- **NOTES-**1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) zone; end vertical left 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 basic load combinations, which include cases with reductions for multiple concurrent live loads.
- 4) Provide adequate drainage to prevent water ponding.
- 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, with BCDL = 10.0psf.
- 7) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) H=1061, B=968.
- This truss is designed in accordance with the 2009 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and ½" gypsum sheetrock be applied directly to the bottom chord.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



Structural wood sheathing directly applied, except end verticals, and

G-H, E-J, E-I

F-H

2-0-0 oc purlins (5-11-3 max.): E-G.

Rigid ceiling directly applied.

1 Row at midpt

2 Rows at 1/3 pts

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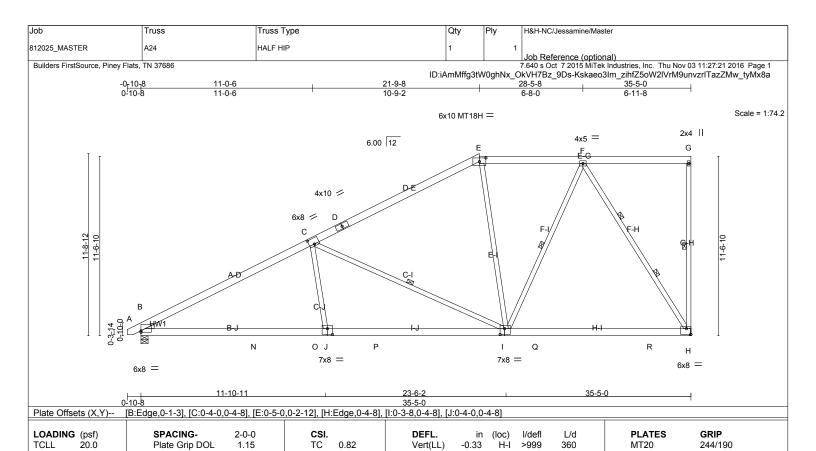


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Vert(TL)

Horz(TL)

Wind(LL)

BRACING-

TOP CHORD

BOT CHORD

WEBS

-0.57

0.07

0.19

H-I >738

Н

J-M

n/a

>999

1 Row at midpt

2 Rows at 1/3 pts

240

n/a

240

2-0-0 oc purlins (6-0-0 max.): E-G.

Rigid ceiling directly applied.

MT18H

Structural wood sheathing directly applied, except end verticals, and

G-H. C-I. F-I

F-H

Weight: 271 lb

244/190

FT = 20%

LUMBER-

WEDGE

TCDL

BCLL

BCDL

TOP CHORD 2x6 SP No.2

10.0

10.0

0.0

BOT CHORD 2x6 SP No.2 2x4 SP No.3 *Except* WFBS

C-I,F-H: 2x4 SP No.2

Left: 2x4 SP No.3

REACTIONS. (lb/size) H=1410/Mechanical, B=1452/0-5-8 (min. 0-1-11)

Max Horz B=977(LC 8)

Max Uplift H=-1036(LC 9), B=-965(LC 8) Max Grav H=1484(LC 2), B=1453(LC 2)

Lumber DOL

Rep Stress Incr

Code IRC2009/TPI2007

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

B-C=-2357/1697, C-D=-1309/925, D-E=-1176/974, E-F=-1074/1035 **BOT CHORD**

B-N=-2275/2008, N-O=-2275/2008, J-O=-2275/2008, J-P=-2255/2073, I-P=-2255/2073,

1.15

YES

ВС

WB

(Matrix-S)

0.80

0.96

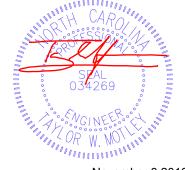
I-Q=-735/716, Q-R=-735/716, H-R=-735/716

WFBS C-J=0/461, C-I=-1124/1310, E-I=0/259, F-I=-718/860, F-H=-1342/1401

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) zone; end vertical left 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 basic load combinations, which include cases with reductions for multiple concurrent live loads.
- 4) Provide adequate drainage to prevent water ponding.
- 5) All plates are MT20 plates unless otherwise indicated.
- 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, with BCDL = 10.0psf.
- 8) Refer to girder(s) for truss to truss connections.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) H=1036, B=965.
- 10) This truss is designed in accordance with the 2009 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 11) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and ½" gypsum sheetrock be applied directly to the bottom chord.
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



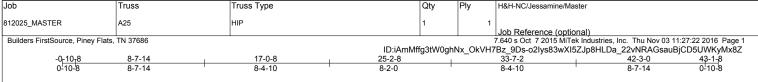
November 3,2016



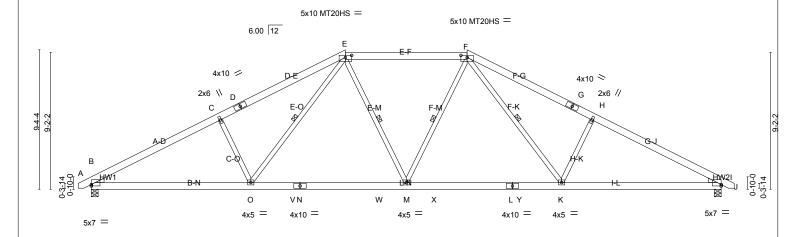
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Scale = 1:77.3



| LOADIN | IG (psf) | SPACING- 2-0-0 | CSI. | DEFL . in | (loc) I/defl | L/d | PLATES GRIF | • |
|--------|----------|----------------------|------------|------------------|--------------|-----|-------------------|-------|
| TCLL | 20.0 | Plate Grip DOL 1.15 | TC 0.64 | Vert(LL) -0.21 | K-M >999 | 360 | MT20 244/1 | 190 |
| TCDL | 10.0 | Lumber DOL 1.15 | BC 0.76 | Vert(TL) -0.45 | K-M >999 | 240 | MT20HS 187/1 | 143 |
| BCLL | 0.0 * | Rep Stress Incr YES | WB 0.42 | Horz(TL) 0.12 | I n/a | n/a | | |
| BCDL | 10.0 | Code IRC2009/TPI2007 | (Matrix-S) | Wind(LL) 0.23 | M-O >999 | 240 | Weight: 286 lb FT | = 20% |

LUMBER-

TOP CHORD 2x6 SP No.2

BOT CHORD 2x6 SP No.2 WEBS 2x4 SP No.3

WEDGE

Left: 2x4 SP No.3, Right: 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied, except

2-0-0 oc purlins (4-9-5 max.): E-F.

BOT CHORD Rigid ceiling directly applied.

WEBS 1 Row at midpt E-O, E-M, F-M, F-K

REACTIONS. (lb/size) B=1731/0-5-8 (min. 0-2-1), I=1731/0-5-8 (min. 0-2-1)

Max Horz B=248(LC 8)

Max Uplift B=-1182(LC 8), I=-1182(LC 9)

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

TOP CHORD B-C=-2957/2627, C-D=-2768/2655, D-E=-2675/2693, E-F=-2131/2149, F-G=-2675/2693,

G-H=-2768/2655, H-I=-2957/2627 BOT CHORD B-O=-2084/2534, O-V=-1336/2025.

B-O=-2084/2534, O-V=-1336/2025, N-V=-1336/2025, M-W=-1336/2025, M-W=-1336/2025

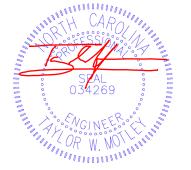
 $M-X = -1336/2025, \ L-X = -1336/2025, \ L-Y = -1336/2025, \ K-Y = -1336/2025, \ I-K = -2086/2534$

WEBS C-O=-407/798, E-O=-708/684, E-M=-79/372, F-M=-79/372, F-K=-708/684, H-K=-407/798

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) zone; 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 basic load combinations, which include cases with reductions for multiple concurrent live loads.
- 4) Provide adequate drainage to prevent water ponding.
- 5) All plates are MT20 plates unless otherwise indicated.
- 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, with BCDL = 10.0psf.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) B=1182, I=1182.
- 9) This truss is designed in accordance with the 2009 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and ½" gypsum sheetrock be applied directly to the bottom chord.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



November 3,2016



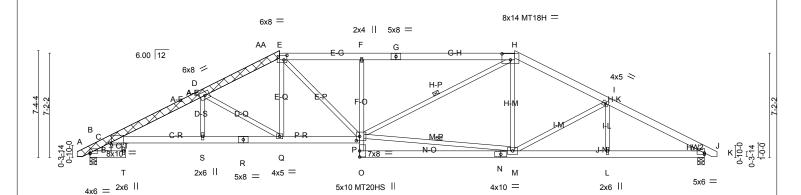
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ANSITPH Quality Criteria, DSB-89 and BCSI1 Building Component Safety Information available from Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719.



Job Truss Truss Type Qty H&H-NC/Jessamine/Master 812025 MASTER A26 HIP Job Reference (optional)
7.640 s Oct 7 2015 MiTek Industries, Inc. Thu Nov 03 11:27:25 2016 Page 1
ID:iAmMffg3tW0ghNx_OkVH7Bz_9Ds-Dd_5U96opDT8AGss1M7hghXpGOImn9A9uBK87eyMx8W Builders FirstSource, Piney Flats, TN 37686 -0₁10₁8 2-5-8 0-10-8 2-5-8 <u>29-2-8</u> 10-8-0 42-3-0 43-1-8 0-10-8 5-6-0



6x8 =

Structural wood sheathing directly applied, except

M-P, H-P

2-0-0 oc purlins (2-10-11 max.): E-H.

Rigid ceiling directly applied.

1 Row at midpt

0-10-8 0-10-8 42-3-0 [B:Edge,0-0-11], [C:0-1-8,0-1-10], [E:0-2-8,0-3-12], [H:0-7-0,0-5-0], [J:Edge,0-1-3], [P:0-2-12,0-3-8] Plate Offsets (X,Y)--

| | (,, | [| ,,, | <u>- 1) [3-1]) [</u> | | | | | |
|--------|---------|----------------------|------------|----------------------|---------|--------|-----|----------------|----------|
| LOADIN | G (psf) | SPACING- 2-0-0 | CSI. | DEFL . ir | ı (loc) | l/defl | L/d | PLATES (| GRIP |
| TCLL | 20.0 | Plate Grip DOL 1.15 | TC 0.86 | Vert(LL) -0.24 | P-Q | >999 | 360 | MT20 2 | 244/190 |
| TCDL | 10.0 | Lumber DOL 1.15 | BC 0.74 | Vert(TL) -0.61 | P-Q | >827 | 240 | MT20HS 1 | 187/143 |
| BCLL | 0.0 * | Rep Stress Incr YES | WB 0.79 | Horz(TL) 0.37 | J | n/a | n/a | MT18H 2 | 244/190 |
| BCDL | 10.0 | Code IRC2009/TPI2007 | (Matrix-S) | Wind(LL) 0.43 | P-Q | >999 | 240 | Weight: 386 lb | FT = 20% |

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

TOP CHORD 2x6 SP No.2

2x6 SP No.2 *Except* **BOT CHORD**

C-R: 2x6 SP DSS, F-O: 2x4 SP No.2

2x4 SP No.3 *Except* **WEBS** C-T: 2x4 SP No.2

2x6 SP No 2 OTHERS

LBR SCAB A-E 2x6 SP No.2 both sides

WEDGE

Left: 2x4 SP No.3, Right: 2x4 SP No.3

REACTIONS. (lb/size) B=1743/0-5-8 (min. 0-2-1), J=1732/0-5-8 (min. 0-2-1)

Max Horz B=195(LC 8)

Max Uplift B=-1116(LC 8), J=-1123(LC 9)

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

TOP CHORD B-C=-729/720, C-D=-3826/3246, D-AA=-3034/2670, E-AA=-2919/2695, E-F=-3126/2937,

F-G=-3121/2942, G-H=-3121/2944, H-I=-2625/2378, I-J=-2971/2565 C-S=-2762/3503, R-S=-2765/3504, Q-R=-2765/3504, P-Q=-1866/2655, F-P=-628/778,

BOT CHORD N-O=-226/466, M-N=-226/466, L-M=-2065/2552, J-L=-2065/2552 **WEBS**

D-S=-2/283, D-Q=-1007/1059, E-Q=-492/659, E-P=-692/781, M-P=-1423/1865,

H-P=-796/1022, H-M=-57/363, I-M=-282/505

- 1) Attached 15-8-7 scab A to E, both face(s) 2x6 SP No.2 with 2 row(s) of 10d (0.131"x3") nails spaced 9" o.c.except: starting at 0-0-4 from end at joint A, nail 2 row(s) at 4" o.c. for 3-11-0.
- 2) Unbalanced roof live loads have been considered for this design.
- 3) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) zone; 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
- 4) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
- 5) Provide adequate drainage to prevent water ponding.
- 6) All plates are MT20 plates unless otherwise indicated.
- 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) B=1116, J=1123. 10) This truss is designed in accordance with the 2009 International Residential Code sections R502.11.1 and R802.10.2 and
- referenced standard ANSI/TPI 1. 11) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and ½" gypsum sheetrock be applied directly to the bottom chord.
- **ில் நடிக்கு** முத்திர் prepresentation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



November 3,2016

Scale = 1:79.2

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

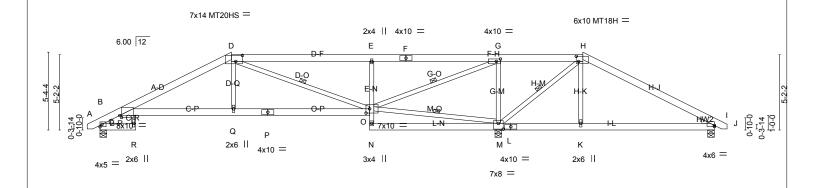
Design valid for use only with MiTek connectors. This design is based only upon parameters shown, and is for an individual building component Applicability of design paramenters and proper incorporation of component is responsibility of building designer - not truss engineer/designer. Bracing shown replacements of the state of th



| | | Truss Type | | | |
|-----------------------------|----------|------------|-----------------|---------|--|
| MASTER | A26 | HIP | 1 | 1 | Lib Before a Coffee D |
| s FirstSource, Piney Flats, | TN 37686 | | | | Job Reference (optional) 7.640 s Oct 7 2015 MiTek Industries, Inc. Thu Nov 03 11:27:25 2016 Page 2 2_9Ds-Dd_5U96opDT8AGss1M7hghXpGOImn9A9uBK87eyMx8W |
| | | ID:iA | AmMffg3tW0ghNx_ | OkVH7Bz | z_9Ds-Dd_5U96opDT8AGss1M7hghXpGOlmn9A9uBK87eyMx8W |
| CASE(S) Standard | l | | | | |
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Job Truss Truss Type Qty H&H-NC/Jessamine/Master 812025 MASTER A27 HIP Job Reference (optional)
7.640 s Oct 7 2015 MiTek Industries, Inc. Thu Nov 03 11:27:28 2016 Page 1 Builders FirstSource, Piney Flats, TN 37686 ID:iAmMffg3tW0ghNx_OkVH7Bz_9Ds-dCfD6B8h68sj1kbRiUgOlJ9JWblk_VQca9YojzyMx8T -0₁10₁8 2-5-8 0-10-8 2-5-8 27-4-12 8-10-4 42-3-0 43-1-8 0-10-8 9-6-0 5-9-12 9-0-8

Scale = 1:79.2



18-6-8 0-10-8 0-10-8 42-3-0 [C:0-1-8,0-1-10], [D:0-5-8,0-5-0], [G:0-3-8,0-2-0], [H:0-2-0,0-4-4], [I:Edge,0-0-15], [M:0-4-0,0-4-12], [O:0-3-0,0-3-8] Plate Offsets (X,Y)--

| | (, - / | [| ,,, [,-, - , -,], | t furradata a valt funa viata vivrrla fava a ata a af | - |
|--------|---------|----------------------|------------------------------|---|---|
| LOADIN | G (psf) | SPACING- 2-0-0 | CSI. | DEFL. in (loc) I/defl L/d PLATES GRIP | |
| TCLL | 20.0 | Plate Grip DOL 1.15 | TC 0.92 | Vert(LL) -0.19 C-Q >999 360 MT20 244/190 | |
| TCDL | 10.0 | Lumber DOL 1.15 | BC 0.79 | Vert(TL) -0.48 C-Q >688 240 MT20HS 187/143 | |
| BCLL | 0.0 * | Rep Stress Incr YES | WB 0.88 | Horz(TL) 0.24 M n/a n/a MT18H 244/190 | |
| BCDL | 10.0 | Code IRC2009/TPI2007 | (Matrix-S) | Wind(LL) 0.40 C-Q >834 240 Weight: 286 lb FT = 20% | |

TOP CHORD

BOT CHORD

WEBS

Structural wood sheathing directly applied, except

D-O, M-O, G-O, H-M

2-0-0 oc purlins (6-0-0 max.): D-H.

Rigid ceiling directly applied.

1 Row at midpt

LUMBER-**BRACING-**

TOP CHORD 2x6 SP No.1 *Except*

D-F.F-H: 2x6 SP No.2

2x6 SP No.2 *Except* BOT CHORD

C-P: 2x6 SP No.1, E-N: 2x4 SP No.2

WEBS 2x4 SP No.3 *Except* C-R: 2x4 SP No.2

WEDGE

Right: 2x4 SP No.3

REACTIONS. B=908/0-5-8 (min. 0-1-8), M=2391/0-5-8 (min. 0-2-13), I=175/0-5-8 (min. 0-1-8)

Max Horz B=142(LC 8)

Max Uplift B=-615(LC 8), M=-1603(LC 7), I=-362(LC 9) Max Grav B=908(LC 1), M=2391(LC 1), I=266(LC 14)

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

B-C=-356/406, C-D=-1526/1270, D-E=-801/865, E-F=-778/852, F-G=-778/852, TOP CHORD

G-H=-848/1367, H-I=-505/652

BOT CHORD C-Q=-881/1355, P-Q=-882/1368, O-P=-882/1368, E-O=-585/747, L-M=-533/514,

K-L=-533/514, I-K=-538/512

WFBS D-Q=0/455, D-O=-756/567, M-O=-1262/1169, G-O=-1738/2134, G-M=-1289/1200,

H-M=-1289/1102, H-K=0/306

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

- 2) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) zone; 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 basic load combinations, which include cases with reductions for multiple concurrent live loads.
- 4) Provide adequate drainage to prevent water ponding.
- 5) All plates are MT20 plates unless otherwise indicated.
- 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) B=615, M=1603, I=362.
- 9) This truss is designed in accordance with the 2009 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and ½" gypsum sheetrock be applied directly to the bottom chord.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



November 3,2016

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

Job Truss Truss Type Qty H&H-NC/Jessamine/Master 812025 MASTER A28 ROOF SPECIAL GIRDER Job Reference (optional) 7.640 s Oct 7 2015 MiTek Industries, Inc. Thu Nov 03 11:27:30 2016 Page 1 Builders FirstSource, Piney Flats, TN 37686 -0₁10₁8 2-5-8 0-10-8 2-5-8 27-4-12 6-8-12 4-5-6 4-10-14 4-10-14 Scale = 1:79.3 5x6 = 6.00 12 4x5 = 4x5 🖊 Special 2x6 || 5x8 = 4x10 = Specia D 5x6 || 5x8 = G н Special Special J Special 6-8-10 D-ΑE AG W U Р AK AL AM 5x8 = s R Q 4x10 = 2x6 || LUS24 LUS24 4x5 = = 2x4 4x5 = 2x6

22-11-6 0-10-8 42-3-0 0-10-8

LUS24 LUS24

LUS24

7x8

LUS24

| I late Oil | 3C(3 (X, 1) | [C.0-3-3,0-0-3], [C.0-1-1 -1 ,0-0-0], [IX.0-3 |)- ,0- <u>2-12], [</u> \(\frac{1}{2}\).0- -1 | 2], [1.0-0-0,0-4-0] | |
|------------|--------------|--|--|--|--|
| LOADING | G (psf) | SPACING- 2-0-0 | CSI. | DEFL. in (loc) I/defl L/d PLATES GRIP | |
| TCLL | 20.0 | Plate Grip DOL 1.15 | TC 0.65 | Vert(LL) -0.13 C-W >999 360 MT20 244/190 | |
| TCDL | 10.0 | Lumber DOL 1.15 | BC 0.81 | Vert(TL) -0.33 C-W >995 240 | |
| BCLL | 0.0 * | Rep Stress Incr NO | WB 0.94 | Horz(TL) 0.21 Q n/a n/a | |
| BCDL | 10.0 | Code IRC2009/TPI2007 | (Matrix-M) | Wind(LL) 0.28 C-W >999 240 Weight: 295 lb FT = 20% | |

LUMBER-**BRACING-**

Structural wood sheathing directly applied or 5-10-5 oc purlins, TOP CHORD 2x6 SP No.2 *Except* TOP CHORD

A-E: 2x6 SP DSS except

2x6 SP No.2 *Except* 2-0-0 oc purlins (5-11-14 max.): F-K. BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

C-V: 2x6 SP No.1, F-S: 2x4 SP No.2 **WEBS** 2x4 SP No.2

WEDGE

Left: 2x4 SP No.3

BOT CHORD

REACTIONS. (lb/size) B=887/0-5-8 (min. 0-1-8), Q=2436/0-5-8 (min. 0-2-14), L=166/0-5-8 (min. 0-1-8)

Max Horz B=181(LC 6)

4x5 =

Max Uplift B=-649(LC 17), Q=-2363(LC 7), L=-682(LC 7) Max Grav B=887(LC 1), Q=2436(LC 1), L=242(LC 12)

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

TOP CHORD B-C=-347/410, C-D=-1673/1142, D-E=-1042/765, E-F=-1035/719, F-G=-1015/943,

G-H=-1424/2340, H-AE=-1424/2340, I-AE=-1424/2340, I-AF=-1424/2340, J-AF=-1424/2340, J-AF=-1

J-AG=-897/945, AG-AH=-897/945, K-AH=-897/945, K-L=-503/1029

C-W=-1005/1496, V-W=-1009/1499, U-V=-1009/1499, T-U=-745/1093, F-T=-682/602, BOT CHORD Q-R=-636/647, P-Q=-945/1068, P-AI=-945/1068, AI-AJ=-945/1068, O-AJ=-945/1068,

O-AK=-823/532, AK-AL=-823/532, N-AL=-823/532, N-AM=-814/532, L-AM=-814/532 D-W=-74/279, D-U=-755/760, E-U=-323/550, F-U=-391/575, R-T=-701/691

G-T=-1131/1767, G-R=-94/300, G-Q=-2034/1403, H-Q=-336/486, J-Q=-1620/2074,

J-O=-440/545, K-O=-989/683

NOTES-

WEBS

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads
- 4) Provide adequate drainage to prevent water ponding.
- 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) B=649, Q=2363, L=682.
- 8) This truss is designed in accordance with the 2009 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 9) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 11) Use Simpson Strong-Tie LUS24 (4-10d Girder, 2-10d Truss, Single Ply Girder) or equivalent spaced at 2-0-0 oc max. starting at 29-1-12 from the left end to 39-1-12 to connect truss(es) J234 (1 ply 2x4 SP), J235 (1 ply 2x4 SP) to back face of bottom chord. பில் மாழ்க்கி மாழ்க்கிக்கி வாழ்க்கி மாழ்க்கி மாழ்கி மாழ்க்கி மாழ்கி மாழ்க்கி மாழ்கி மாழ்க்கி மாழக்கி மாழ்க்கி மாழக்கி மாழக்கி மாழக்கி மாழக்கி மாழக்கி மாழ்க்கி மாழ்க்கி மாழ்க்கி மாழ்க



November 3,2016



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 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 Applicability of design paramenters and proper incorporation of component is responsibility of building designer - not truss engineer/designer. Bracing shown is for lateral support of individual web members only. Additional temporary bracing to insure stability during construction is the responsibility of the erector. Additional permanent bracing of the overall structure is the responsibility of the building designer. For general guidance regarding fabrication, quality control, storage, delivery, erection and bracing, consult

ANSI/TPH Quality Criteria, DSB-89 and BCSI1 Building Component fabrication, quality control, storage, delivery, erection and bracing, consult

ANSI/TPI1 (
Safety Information available from Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719.



| Job | Truss | Truss Type | Qty | Ply | H&H-NC/Jessamine/Master |
|------------------------------------|-------|---------------------|-----------|---|---|
| 812025_MASTER | A28 | ROOF SPECIAL GIRDER | 1 | 1 | Job Reference (optional) |
| Builders FirstSource, Piney Flats, | 10.14 | | 7 | 7.640 s Oct 7 2015 MiTek Industries, Inc. Thu Nov 03 11:27:30 2016 Page 2 | |
| | | ID:iAr | nMtta3tW(|)ahNx ()k\ | VH7Bz 9Ds-Zbn XtAxel6RG1lppvisNkEiEP sSN5u1S1vosvMx8R |

NOTES-

13) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 112 lb down and 144 lb up at 29-1-12, 112 lb down and 144 lb up at 31-1-12, 112 lb down and 144 lb up at 33-1-12, and 112 lb down and 144 lb up at 37-2-8 on top chord. The design/selection of such connection device(s) is the responsibility of others.

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

Vert: A-E=-60, E-F=-60, F-K=-60, K-M=-60, X-Y=-20, C-T=-20, S-AB=-20

Concentrated Loads (lb)

Vert: N=1(B) AI=1(B) AJ=1(B) AK=1(B) AL=1(B) AM=-17(B)

PO Box 3850 Sumter SC 29151

Job Truss Truss Type Qty H&H-NC/Jessamine/Master 812025 MASTER B01 GABLE 3 Job Reference (optional)
7.640 s Oct 7 2015 MiTek Industries, Inc. Thu Nov 03 11:27:31 2016 Page 1 Builders FirstSource, Piney Flats, TN 37686 ID:iAmMffg3tW0ghNx_OkVH7Bz_9Ds-1nLMIDAZP3EIuBK0NcE5vyn0_pUIB2z2G6nSKIyMx8Q 27-7-8 Scale = 1:47.2

8x10 ≥ 2x6 || 3x6 =6.00 12 D E M 3x5 / С 1-0 0-10-0 5x8 = W V U Т S Q Р 3x8 MT20HS || 3x5 = 3x6 =

23-5-13 27-7-8 0-10-8 27-7-8 [E:0-3-0.0-2-0], [L:0-5-0.0-0-9], [Z:0-4-8.0-1-8]

| I late on | 3013 (71, 17 | [L.0 0 0,0 2 0], [L.0 0 0,0 0 0], [2.0 - | 0,0 1 0] | | _ |
|-----------|--------------|--|----------|---|---|
| LOADIN | G (psf) | SPACING- 2-0-0 | CSI. | DEFL. in (loc) I/defl L/d PLATES GRIP | |
| TCLL | 20.0 | Plate Grip DOL 1.15 | TC 0.14 | Vert(LL) 0.00 A n/r 120 MT20 244/190 | |
| TCDL | 10.0 | Lumber DOL 1.15 | BC 0.16 | Vert(TL) -0.00 A n/r 120 MT20HS 187/143 | |
| BCLL | 0.0 * | Rep Stress Incr YES | WB 0.06 | Horz(TL) 0.01 O n/a n/a | |
| BCDL | 10.0 | Code IRC2009/TPI2007 | (Matrix) | Weight: 145 lb FT = 20% | |

LUMBER-**BRACING-**

TOP CHORD 2x4 SP No.2 *Except*

L-O: 2x10 SP No.1

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

WEBS 2x4 SP No.3 **OTHERS**

BOT CHORD

TOP CHORD

Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): E-L.

Rigid ceiling directly applied or 6-0-0 oc bracing, Except: 10-0-0 oc bracing: Y-Z,X-Y.

REACTIONS. All bearings 27-7-8.

(lb) - Max Horz Z=-212(LC 9)

Max Uplift All uplift 100 lb or less at joint(s) O, Y except Z=-241(LC 8), U=-125(LC 7), V=-128(LC 6),

W=-123(LC 7), X=-157(LC 8), T=-126(LC 7), R=-126(LC 6), Q=-129(LC 7), P=-125(LC 9), N=-372(LC 9)

All reactions 250 lb or less at joint(s) Z, O, U, V, W, X, Y, T, R, Q except P=270(LC 1), N=417(LC Max Grav

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

TOP CHORD B-Z=-153/315

NOTES-(17)

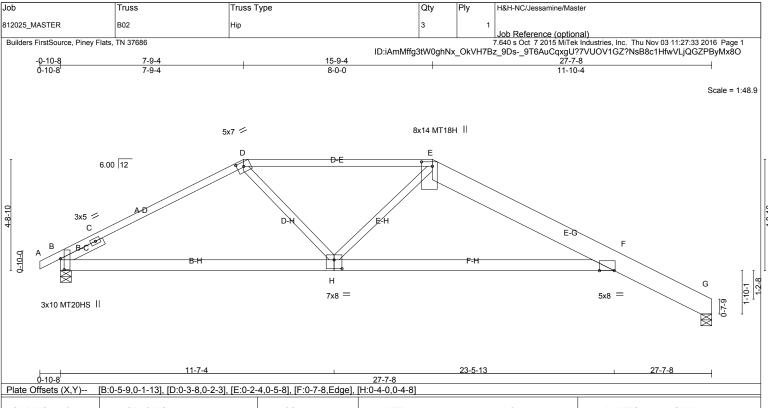
- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions 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) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
- 5) Provide adequate drainage to prevent water ponding.
- 6) All plates are MT20 plates unless otherwise indicated.
- 7) All plates are 2x4 MT20 unless otherwise indicated. 8) Gable requires continuous bottom chord bearing.
- 9) Gable studs spaced at 2-0-0 oc.
- 10) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) O, Y except (jt=lb) Z=241, U=125, V=128, W=123, X=157, T=126, R=126, Q=129, P=125, N=372.
- 13) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) O.
- 14) This truss is designed in accordance with the 2009 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 15) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
- 16) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 17) This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.



November 3,2016

LOAD CASE(S) Standard





| - 1 | 1 late 6 liberto (74,17) [B.6 6 6,6 1 10], [B.6 6 6,6 2 0], [E.6 2 1,6 6 0], [1.6 7 6,2 age], [1.6 7 6,5 10] | | | | | | | | | | | | |
|-----|--|-------|-----------------|-------|-------|-------|----------|-------|-------|--------|-----|----------------|----------|
| | 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 | 0.87 | Vert(LL) | -0.30 | H-O | >999 | 360 | MT20 | 244/190 |
| | TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.70 | Vert(TL) | -0.82 | H-O | >402 | 240 | MT20HS | 187/143 |
| | BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.19 | Horz(TL) | 0.33 | G | n/a | n/a | MT18H | 244/190 |
| | BCDL | 10.0 | Code IRC2009/TP | 12007 | (Matr | ix-S) | Wind(LL) | 0.57 | H-O | >572 | 240 | Weight: 154 lb | FT = 20% |

BRACING-

TOP CHORD

BOT CHORD

Structural wood sheathing directly applied, except

2-0-0 oc purlins (2-10-9 max.): D-E.

6-4-0 oc bracing: F-H

Rigid ceiling directly applied. Except:

LUMBER-

2x4 SP No.2 *Except* TOP CHORD

E-G: 2x10 SP DSS

2x6 SP No.2

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

SLIDER Left 2x4 SP No.3 2-0-0

 $(lb/size) \quad \ \ G=1104/0-5-8 \ \, (min. \ \, 0-1-9), \ B=1150/0-5-8 \ \, (min. \ \, 0-1-8)$ REACTIONS.

Max Horz B=-273(LC 9)

Max Uplift G=-732(LC 9), B=-760(LC 8)

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

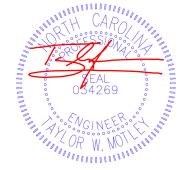
TOP CHORD B-C=-733/125, C-D=-1690/1506, D-E=-1707/1571, E-F=-1824/1591, F-G=-479/474

BOT CHORD B-H=-903/1440, F-H=-1140/1725 D-H=-126/498, E-H=-111/275 **WEBS**

(13)

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) zone; 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 basic load combinations, which include cases with reductions for multiple concurrent live loads.
- 4) Provide adequate drainage to prevent water ponding.
- 5) All plates are MT20 plates unless otherwise indicated.
- 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) Bearing at joint(s) G considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) G=732, B=760.
- 10) This truss is designed in accordance with the 2009 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1. 11) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and ½" gypsum
- sheetrock be applied directly to the bottom chord. 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 13) This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

LOAD CASE(S) Standard

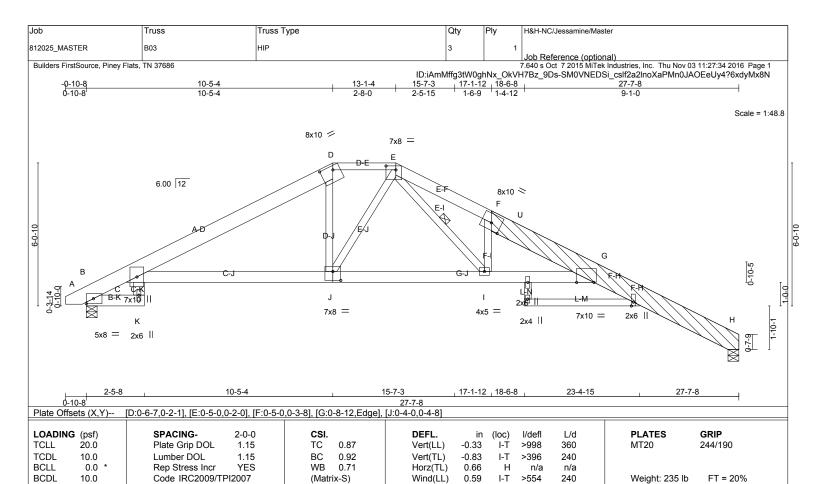


November 3,2016



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 BEFORE USE





BRACING-

TOP CHORD

BOT CHORD

WEBS

Structural wood sheathing directly applied, except

2-0-0 oc purlins (4-0-10 max.): D-E.

Rigid ceiling directly applied.

1 Row at midpt

LUMBER-

2x8 SP DSS *Except* TOP CHORD

D-E: 2x4 SP No.2, E-F: 2x6 SP No.2, F-H: 2x10 SP No.1

2x6 SP No.2 *Except* BOT CHORD L-M: 2x4 SP No.2

2x4 SP No.3 *Except* WEBS

C-K: 2x6 SP No.2 **OTHERS** 2x10 SP No.1 LBR SCAB

F-H 2x10 SP No.1 one side

REACTIONS. (lb/size) B=1133/0-5-8 (min. 0-1-8), H=1108/0-5-8 (min. 0-1-8)

Max Horz B=-306(LC 9)

Max Uplift B=-758(LC 8), H=-760(LC 9)

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

TOP CHORD B-C=-515/668, C-D=-1834/1504, D-E=-1624/1575, E-F=-3133/2845, F-U=-2660/2298,

G-H=-474/503

BOT CHORD C-J=-861/1625, I-J=-887/1621, G-I=-1955/2782 **WEBS** D-J=-113/330, F-I=-1158/1223, E-I=-1560/1711

NOTES-(13)

- 1) Attached 12-0-0 scab F to H, front face(s) 2x10 SP No.1 with 2 row(s) of 10d (0.131"x3") nails spaced 9" o.c.except: starting at 0-0-15 from end at joint F, nail 2 row(s) at 3" o.c. for 2-0-0; starting at 2-9-15 from end at joint F, nail 2 row(s) at 3" o.c. for 3-0-5.
- 2) Unbalanced roof live loads have been considered for this design.
- 3) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) zone; 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
- 4) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
- 5) Provide adequate drainage to prevent water ponding.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 8) Bearing at joint(s) H considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) B=758. H=760.
- 10) This truss is designed in accordance with the 2009 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1. This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and ½" gypsum
- sheetrock be applied directly to the bottom chord. 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 13) This manufactured truss is designed as an individual building component. The suitability and use of this component for any

Contractigular bailding is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.



November 3,2016



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



| Job | Truss | Truss Type | Qty | Ply | H&H-NC/Jessamine/Master | |
|-----------------------------------|--------------------------------|---|------------|----------|--|--|
| 812025_MASTER | B03 | HIP | 3 | 1 | | |
| Builders FirstSource, Piney Flats | | | | | Job Reference (optional) | es, Inc. Thu Nov 03 11:27:35 2016 Page 2 odncSI14oxXXQfP7hueBklgT3yMx8M |
| Builders FirstSource, Piney Flats | , IN 37080 | ID:iAn | nMffg3tW0 | ghNx Ok\ | /.640 s Oct / 2015 Millek industri /H7Bz 9Ds-wYataaD4THkjNc | odncSI14oxXXQfP7hueBklgT3yMx8M |
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| LOAD CASE(S) Standard | d | | | | | |
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| WARNING - Verify des | sign parameters and READ NOTES | ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7 | 473 BEFORE | USE. | | MOTLEY |

Job Truss Truss Type Qty H&H-NC/Jessamine/Master 812025 MASTER B04 ROOF SPECIAL 3 Job Reference (optional)
7.640 s Oct 7 2015 MiTek Industries, Inc. Thu Nov 03 11:27:37 2016 Page 1
ID:iAmMffg3tW0ghNx_OkVH7Bz_9Ds-sxid?GFK?v_Rc6n9ktLW9D1t1DMkbflwe2EmYyyMx8K Builders FirstSource, Piney Flats, TN 37686 18-6-8 1-4-12 27-7-8 17-1-12 4-7-14 5-4-8 Scale = 1:51.7 10x16 MT18H > D 6.00 12 8x10 > Ε K-M 2x6 Н 2x6 II 7x8 = 7x10 = 2x4 || 2x6 || 5x8 =

| Flate Olis | CLS (A, I) | [C.0-0-0,0-3-14], [D.Luge,0-3-0], | .0-0-12,0-0-4], [1.0-4-0,0-4-0 | | |
|-----------------|---------------|---------------------------------------|--------------------------------|---|-----------------------------|
| LOADING TCLL | (psf) 20.0 | SPACING- 2-0-0 Plate Grip DOL 1.15 | CSI. TC 0.87 | DEFL. in (loc) I/defl L/d Vert(LL) -0.33 H-S >992 360 | PLATES GRIP MT20 244/190 |
| TCDL BCLL | 10.0 0.0 * | Lumber DOL 1.15 Rep Stress Incr YES | BC 0.86 WB 0.49 | Vert(TL) -0.83 H-S >394 240 Horz(TL) 0.68 G n/a n/a | MT18H 244/190 |
| BCDL | 10.0 | Code IRC2009/TPI2007 | (Matrix-S) | Wind(LL) 0.60 H-S >547 240 | Weight: 231 lb FT = 20% |

17-1-12

BRACING-

TOP CHORD

BOT CHORD

WFBS

27-7-8

18-6-8

21-5-13

Structural wood sheathing directly applied.

Rigid ceiling directly applied.

1 Row at midpt

23-4-15

27-7-8

11-9-4

LUMBER-

TOP CHORD 2x8 SP DSS *Except*

0-10-8

D-E: 2x4 SP No.2, E-G: 2x10 SP No.1

BOT CHORD 2x6 SP No.2 *Except*

C-I: 2x6 SP No.1, K-L: 2x4 SP No.2

WEBS 2x4 SP No.3 *Except* C-J: 2x6 SP No.2 OTHERS 2x10 SP No.1

LBR SCAB E-G 2x10 SP No.1 one side

REACTIONS. (lb/size) B=1133/0-5-8 (min. 0-1-8), G=1108/0-5-8 (min. 0-1-8)

Max Horz B=-323(LC 9)

Max Uplift B=-776(LC 8), G=-773(LC 9)

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

TOP CHORD B-C=-515/673, C-D=-1775/1451, D-E=-1511/1405, E-T=-2559/2257, F-G=-474/507

10-0-0

[C.O. C. O. D. E. 44]. [D.E.d. c. O. 2. 0]. [E.O. O. 42. O. 0. 4]. [I.O. 4. O. 0. 4. 0]

BOT CHORD C-I=-771/1544, H-I=-1917/2700, F-H=-1919/2692 WEBS E-H=0/250, E-I=-1498/1400, D-I=-569/846

NOTES- (12)

- 1) Attached 12-0-0 scab E to G, front face(s) 2x10 SP No.1 with 2 row(s) of 10d (0.131"x3") nails spaced 9" o.c. except: starting at 0-1-7 from end at joint E, nail 2 row(s) at 3" o.c. for 2-0-0; starting at 2-9-15 from end at joint E, nail 2 row(s) at 3" o.c. for 3-0-5.
- 2) Unbalanced roof live loads have been considered for this design.
- 3) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) zone; 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
- 4) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
- 5) All plates are MT20 plates unless otherwise indicated.
- 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) Bearing at joint(s) G considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) B=776, G=773.
 10) This truss is designed in accordance with the 2009 International Residential Code sections R502.11.1 and R802.10.2 and
- referenced standard ANSI/TPI 1.

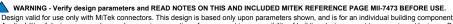
 11) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and ½" gypsum sheetrock be applied directly to the bottom chord.
- 12) This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

LOAD CASE(S) Standard



November 3,2016

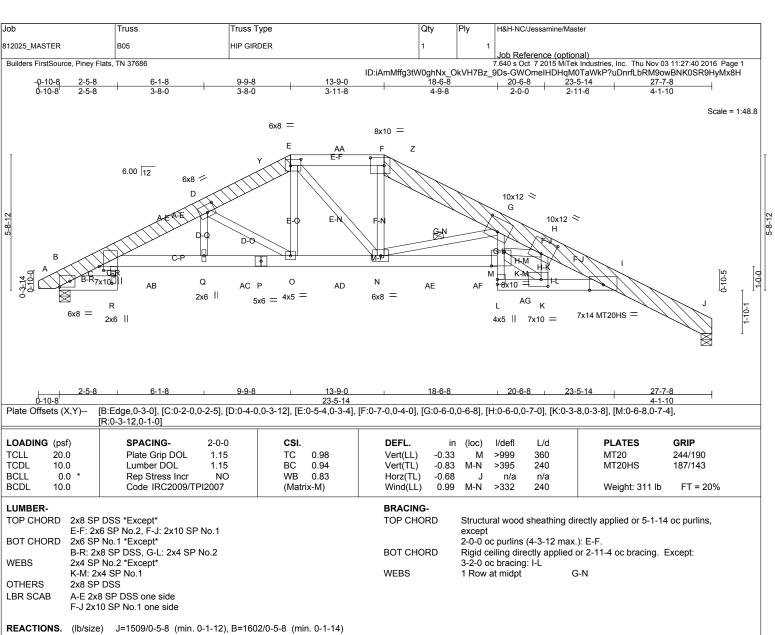
A



Design Value for use only with rex commercials. This uses using its based only upon parameters shown, and its for an involudar building Component of Applicability of design paramenters and proper incorporation of component is responsibility of building designer - not truss engineer/designer. Bracing shown is for lateral support of individual web members only. Additional temporary bracing to insure stability during construction is the responsibility of the erector. Additional permanent bracing of the overall structure is the responsibility of the building designer. For general guidance regarding fabrication, quality control, storage, delivery, erection and bracing, consult

ANSI/TPH1 Quality Criteria, DSB-89 and BCSI1 Building Component Safety Information available from Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719.





Max Horz B=-295(LC 7)

Max Uplift J=-1722(LC 7), B=-2020(LC 6)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD B-C=-750/1231, C-D=-3610/4771, D-Y=-2822/3885, E-Y=-2744/3896, E-AA=-2768/3903,

F-AA=-2768/3903, F-Z=-2767/3919, G-Z=-2882/3893, G-H=-6252/7765, H-I=-4557/5569,

I-J=-660/814

BOT CHORD C-AB=-4403/3434, Q-AB=-4395/3425, Q-AC=-4401/3429, P-AC=-4401/3429, O-P=-4401/3429,

O-AD=-3132/2472, N-AD=-3132/2472, N-AE=-6138/5172, AE-AF=-6153/5181,

M-AF=-6159/5185, G-M=-3827/3321, L-AG=-371/324, K-AG=-371/324, I-K=-5142/4418

C-R=-541/450, D-O=-1148/1523, E-O=-925/686, E-N=-598/528, F-N=-599/481, G-N=-2544/3015, H-K=-2578/3130, K-M=-5860/5028, H-M=-1069/755

NOTES-

WEBS

- 1) Attached 12-0-13 scab A to E, front face(s) 2x8 SP DSS with 2 row(s) of 10d (0.131"x3") nails spaced 9" o.c.except: starting at 0-11-5 from end at joint A, nail 2 row(s) at 3" o.c. for 3-2-15.
- 2) Attached 15-9-9 scab F to J, front face(s) 2x10 SP No.1 with 2 row(s) of 10d (0.131"x3") nails spaced 9" o.c.except: starting at 0-1-1 from end at joint F, nail 2 row(s) at 7" o.c. for 2-0-0; starting at 4-6-4 from end at joint F, nail 2 row(s) at 7" o.c. for 2-0-0; starting at 6-7-2 from end at joint F, nail 2 row(s) at 7" o.c. for 2-0-0; starting at 8-10-5 from end at joint F, nail 2 row(s) at 2" o.c. for 3-0-5.
- 3) Unbalanced roof live loads have been considered for this design.
- 4) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 5) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
- 6) Provide adequate drainage to prevent water ponding.
- 7) All plates are MT20 plates unless otherwise indicated.
- 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) Bearing at joint(s) J considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify Contrapacity of abearing surface.



November 3,2016



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 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 Applicability of design paramenters and proper incorporation of component is responsibility of building designer - not truss engineer/designer. Bracing shown is for lateral support of individual web members only. Additional temporary bracing to insure stability during construction is the responsibility of the erector. Additional permanent bracing of the overall structure is the responsibility of the building designer. For general guidance regarding fabrication, quality control, storage, delivery, erection and bracing, consult

ANSI/TPH Quality Criteria, DSB-89 and BCSI1 Building Component fabrication, quality control, storage, delivery, erection and bracing, consult

Safety Information available from Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719.



| Job | Truss | Truss Type | Qty | Ply | H&H-NC/Jessamine/Master | | |
|---------------|-------|------------|-----|-----|--------------------------|--|--|
| 812025_MASTER | B05 | HIP GIRDER | 1 | 1 | | | |
| | | | | | Job Reference (optional) | | |
| | | | | | | | |

Builders FirstSource, Piney Flats, TN 37686

7.640 s Oct 7 2015 MiTek Industries, Inc. Thu Nov 03 11:27:40 2016 Page 2

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- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) J=1722, B=2020.
- 12) This truss is designed in accordance with the 2009 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

13) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.

- 14) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 15) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 117 lb down and 294 lb up at 9-9-8, and 131 lb down and 294 lb up at 11-10-4, and 117 lb down and 294 lb up at 13-9-0 on top chord, and 99 lb down and 160 lb up at 3-10-4, 49 lb down and 106 lb up at 5-10-4, 101 lb down and 288 lb up at 7-10-4, 58 lb down and 106 lb up at 9-10-4, 58 lb down and 106 lb up at 11-10-4, 58 lb down and 106 lb up at 13-8-4, 101 lb down and 288 lb up at 15-8-4, and 49 lb down and 106 lb up at 17-8-4, and 199 lb down and 169 lb up at 19-8-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 16) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

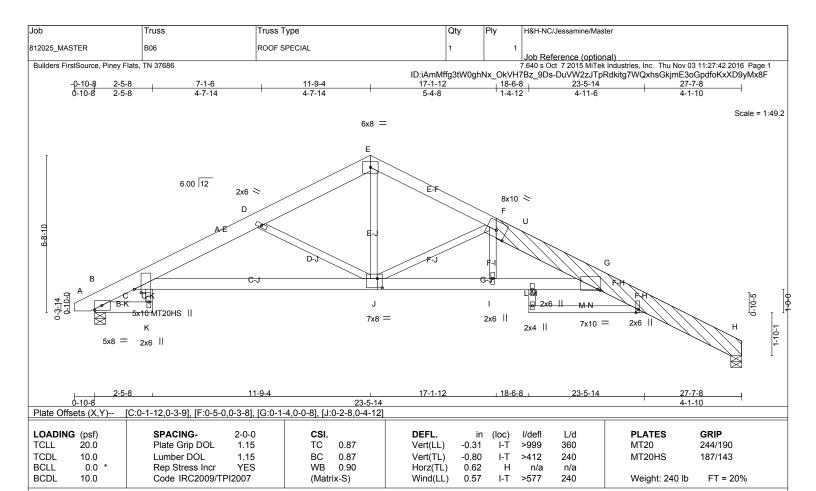
LOAD CASE(S) Standard

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

Vert: A-E=-60, E-F=-60, F-I=-60, I-J=-82, R-S=-20, C-M=-20, L-V=-20

Concentrated Loads (lb)

Vert: E=-52(B) F=-52(B) Q=-49(B) O=-39(B) N=-39(B) AA=-52(B) AB=-99(B) AC=-101(B) AD=-39(B) AE=-101(B) AF=-49(B) AG=-199(B)



BRACING-

TOP CHORD

BOT CHORD

Structural wood sheathing directly applied.

Rigid ceiling directly applied.

LUMBER-

2x8 SP DSS *Except* TOP CHORD

E-F: 2x6 SP No.2, F-H: 2x10 SP No.1

2x6 SP No.2 *Except* BOT CHORD L-M.M-N: 2x4 SP No.2 **WEBS** 2x4 SP No.3 *Except* C-K: 2x4 SP No.2

OTHERS 2x10 SP No.1

F-H 2x10 SP No.1 one side LBR SCAB

REACTIONS. (lb/size) B=1135/0-5-8 (min. 0-1-8), H=1108/0-5-8 (min. 0-1-8)

Max Horz B=-321(LC 9)

Max Uplift B=-775(LC 8), H=-773(LC 9)

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

TOP CHORD $B-C=-499/662,\ C-D=-2377/2090,\ D-E=-1717/1546,\ E-F=-1774/1589,\ F-U=-2692/2408,\ C-D=-2692/2408,\ C-D=-2$

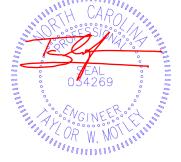
G-H=-474/507

BOT CHORD C-J=-1572/2250, I-J=-2065/2829, G-I=-2063/2821 D-J=-898/967, E-J=-1002/1250, F-J=-1466/1453 **WEBS**

NOTES-

- 1) Attached 12-0-0 scab F to H, front face(s) 2x10 SP No.1 with 2 row(s) of 10d (0.131"x3") nails spaced 9" o.c.except : starting at 0-0-15 from end at joint F, nail 2 row(s) at 3" o.c. for 2-0-0; starting at 2-9-15 from end at joint F, nail 2 row(s) at 3" o.c. for 3-0-5.
- 2) Unbalanced roof live loads have been considered for this design.
- 3) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) zone; 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
- 4) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
- 5) All plates are MT20 plates unless otherwise indicated.
- 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) Bearing at joint(s) H considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) B=775. H=773.
- 10) This truss is designed in accordance with the 2009 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 11) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and ½" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard

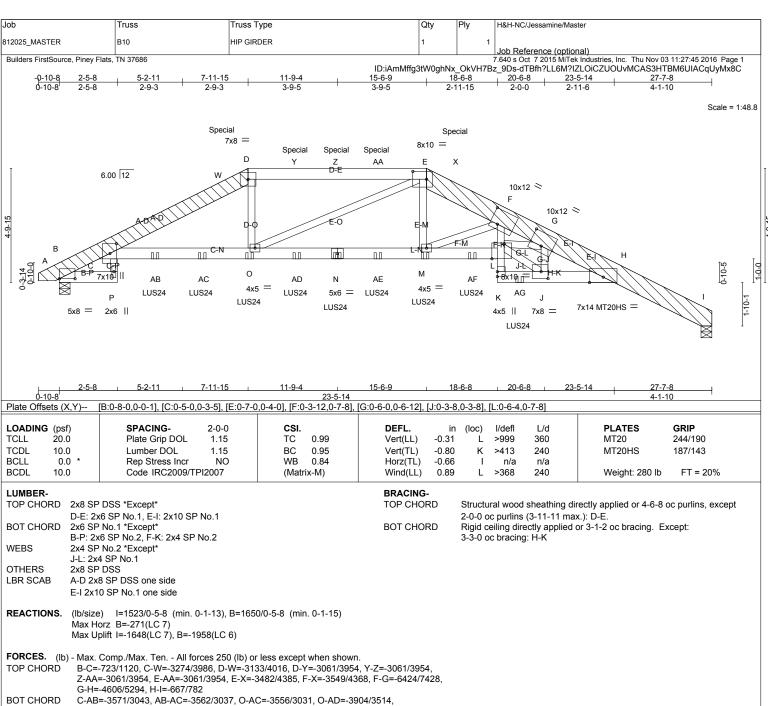


November 3,2016



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED WITER REFERENCE FOR THIS AND INCLUDED Applicability of design paramenters and proper incorporation of component is responsibility of building designer - not truss engineer/designer. Bracing shown replacements of the state of th





N-AD=-3904/3514, N-AE=-3904/3514, M-AE=-3904/3514, M-AF=-5876/5340, L-AF=-5890/5350, F-L=-3738/3441, K-AG=-381/353, J-AG=-381/353, H-J=-4877/4465

D-O=-537/636, E-O=-612/625, E-M=-694/756, F-M=-2053/2224, G-J=-2619/2965,

J-L=-5523/5051, G-L=-1147/887

NOTES-

WEBS

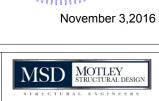
1) Attached 10-0-11 scab A to D, front face(s) 2x8 SP DSS with 2 row(s) of 10d (0.131"x3") nails spaced 9" o.c.except : starting at 0-7-6 from end at joint A, nail 2 row(s) at 4" o.c. for 3-6-14; starting at 7-11-3 from end at joint A, nail 2 row(s) at 7" o.c. for 2-0-0

2) Attached 13-9-7 scab E to I, front face(s) 2x10 SP No.1 with 2 row(s) of 10d (0.131"x3") nails spaced 9" o.c. except : starting at 0-1-1 from end at joint E, nail 2 row(s) at 4" o.c. for 2-0-0; starting at 2-6-2 from end at joint E, nail 2 row(s) at 7" o.c. for 2-0-0; starting at 4-7-0 from end at joint E, nail 2 row(s) at 7" o.c. for 2-0-0; starting at 6-10-3 from end at joint E, nail 2 row(s) at 2" o.c. for 3-0-5.

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

- 4) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 5) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
- 6) Provide adequate drainage to prevent water ponding.
- 7) All plates are MT20 plates unless otherwise indicated.
- 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) Bearing at joint(s) I considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.

Continued on page 2



Sumter SC 29151

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 BEFORE USE

| Job | Truss | Truss Type | Qty | Ply | H&H-NC/Jessamine/Master |
|---|-------|------------|-----|-----|---|
| | | 7,1 | , | 1 | |
| 812025 MASTER | B10 | HIP GIRDER | 1 | 1 | |
| 0.2020 | 2.0 | THE SHIELD | l | | Job Reference (optional) |
| Builders FirstSource, Piney Flats, TN 37686 | | | | | 7.640 s Oct 7 2015 MiTek Industries, Inc. Thu Nov 03 11:27:45 2016 Page 2 |

ID:iAmMffg3tW0ghNx_OkVH7Bz_9Ds-dTBfh?LL6M?IZLOiCZUOUvMCAS3HTBM6UIACqUyMx8C

NOTES-

- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) I=1648, B=1958.
- 12) This truss is designed in accordance with the 2009 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 13) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
- 14) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 15) Use Simpson Strong-Tie LUS24 (4-10d Girder, 2-10d Truss, Single Ply Girder) or equivalent spaced at 2-0-0 oc max. starting at 4-0-11 from the left end to 19-5-13 to connect truss(es) J207 (1 ply 2x4 SP), J208 (1 ply 2x4 SP), J209 (1 ply 2x4 SP), J211 (1 ply 2x4 SP), J212 (1 ply 2x4 SP) to back face of bottom chord.
- 16) Fill all nail holes where hanger is in contact with lumber.
- 17) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 112 lb down and 232 lb up at 7-11-15, 126 lb down and 232 lb up at 10-0-11, 126 lb down and 232 lb up at 11-9-4, and 126 lb down and 232 lb up at 13-5-13, and 112 lb down and 232 lb up at 15-6-9 on top chord. The design/selection of such connection device(s) is the responsibility of others.
- 18) 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

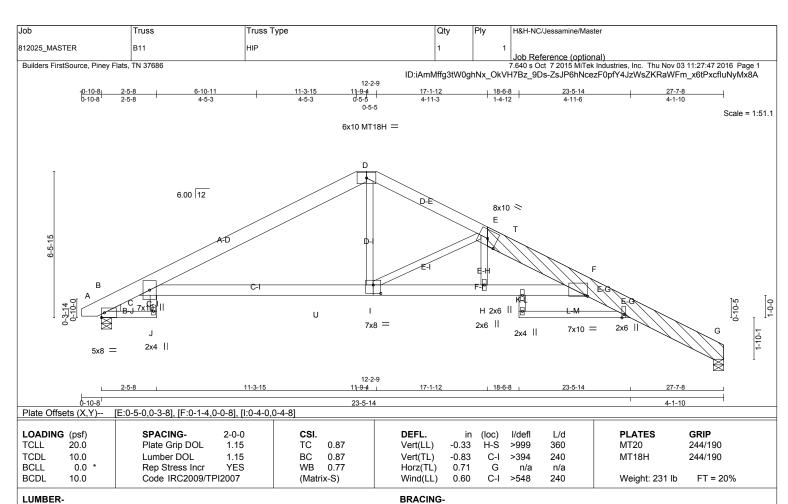
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: A-D=-60, D-E=-60, E-H=-60, H-I=-82, P-Q=-20, C-L=-20, K-T=-20

Concentrated Loads (lb)

Vert: D=-50(B) E=-50(B) N=-41(B) O=-41(B) M=-41(B) Y=-50(B) Z=-50(B) AA=-50(B) AB=-129(B) AC=-80(B) AD=-41(B) AE=-41(B) AF=-80(B) AG=-189(B)



TOP CHORD

BOT CHORD

Structural wood sheathing directly applied.

Rigid ceiling directly applied.

LUMBER-

2x8 SP DSS *Except* TOP CHORD

D-E: 2x6 SP No.2, E-G: 2x10 SP No.1

2x4 SP No.2 *Except* BOT CHORD F-I,C-I: 2x6 SP No.2 2x4 SP No.3 *Except* **WEBS** C-J: 2x4 SP No.2

OTHERS 2x10 SP No.1 E-G 2x10 SP No.1 one side LBR SCAB

WEDGE

Left: 2x4 SP No.3

REACTIONS. (lb/size) B=1135/0-5-8 (min. 0-1-8), G=1108/0-5-8 (min. 0-1-8)

Max Horz B=-318(LC 9)

Max Uplift B=-776(LC 8), G=-773(LC 9)

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

B-C=-476/639, C-D=-1789/1509, D-E=-1837/1667, E-T=-2633/2338, F-G=-474/506 C-U=-858/1592, I-U=-861/1587, H-I=-1989/2762, F-H=-1989/2757

BOT CHORD

WEBS D-I=-554/832, E-I=-1256/1226

NOTES-

- 1) Attached 12-0-0 scab E to G, front face(s) 2x10 SP No.1 with 2 row(s) of 10d (0.131"x3") nails spaced 9" o.c.except : starting at 0-0-15 from end at joint E, nail 2 row(s) at 3" o.c. for 2-0-0; starting at 2-9-15 from end at joint E, nail 2 row(s) at 3" o.c. for 3-0-5.
- 2) Unbalanced roof live loads have been considered for this design.
- 3) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) zone; 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
- 4) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
- 5) All plates are MT20 plates unless otherwise indicated.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 8) Bearing at joint(s) G considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface. 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb)
- B=776, G=773. 10) This truss is designed in accordance with the 2009 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 11) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and ½" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard

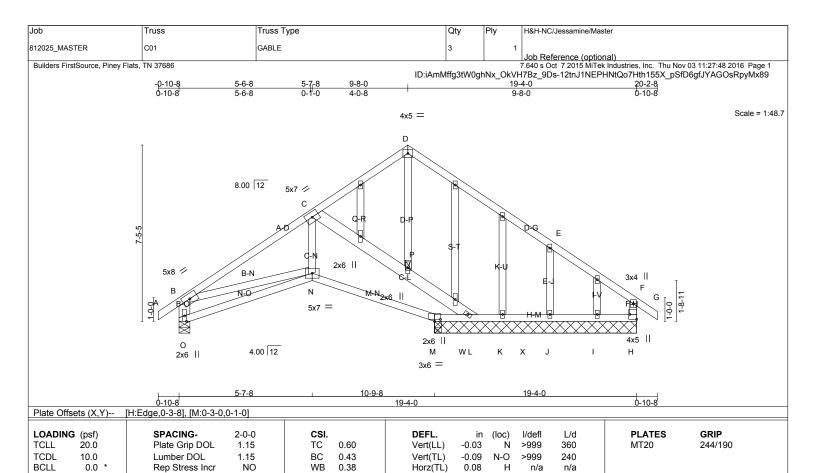


November 3,2016



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 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





LUMBER-

BCDL

BRACING-

Wind(LL)

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

10.0

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

Ν >999 240

Weight: 132 lb

FT = 20%

2x4 SP No.3 *Except* WFBS B-O,C-L: 2x6 SP No.2

1 Brace at Jt(s): P

0.05

OTHERS 2x4 SP No.3

REACTIONS. All bearings 8-6-8 except (jt=length) O=0-5-8.

(lb) - Max Horz O=502(LC 7)

Max Uplift All uplift 100 lb or less at joint(s) I except O=-488(LC 8), M=-248(LC 1), M=-248(LC 1), L=-360(LC 8),

(Matrix-S)

All reactions 250 lb or less at joint(s) M, K, I except O=829(LC 1), H=502(LC 1), L=642(LC 1), Max Grav

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

Code IRC2009/TPI2007

TOP CHORD B-C=-1443/585, C-D=-424/370, D-E=-473/301, E-F=-399/51, B-O=-840/650, F-H=-364/86

 $N-O = -630/607, \ M-N = -560/1171, \ M-W = -523/1101, \ L-W = -523/1101, \ K-L = -27/297, \ M-W = -523/1101, \ M-W = -523/110$ **BOT CHORD**

K-X=-27/297, J-X=-27/297, I-J=-27/297, H-I=-27/297

WEBS C-P=-995/672, L-P=-1038/669, C-N=-294/678, B-N=-7/907, E-J=-388/595

NOTES-(14)

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) zone; 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) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
- 5) All plates are 2x4 MT20 unless otherwise indicated.
- 6) Gable studs spaced at 2-0-0 oc.
- 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, with BCDL = 10.0psf.
- 9) Bearing at joint(s) O considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) I except (jt=lb) O=488, M=248, L=360, J=525.
- 11) This truss is designed in accordance with the 2009 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 12) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and ½" gypsum sheetrock be applied directly to the bottom chord.
- 13) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

Continued on page 2



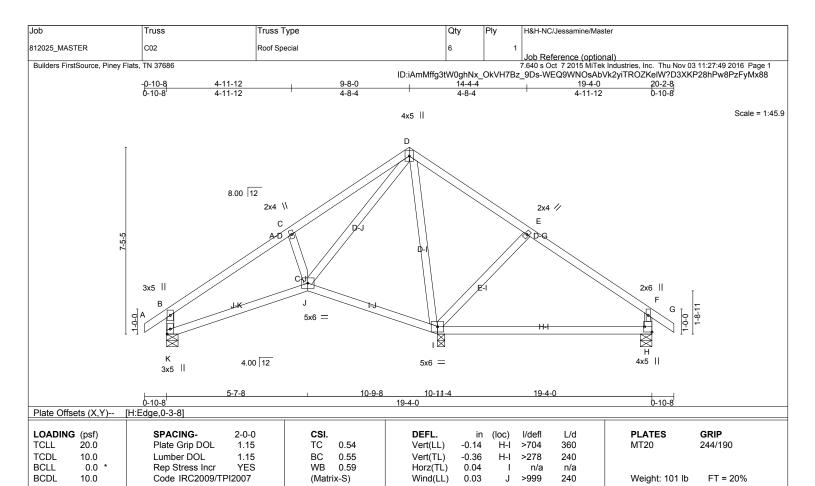
November 3,2016



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 BEFORE USE



| | Truss | Truss Type | Qty | Ply | H&H-NC/Jessamine/Master |
|-------------------------|-------------------------|---|-----------------------------|------------|---|
| _MASTER | C01 | GABLE | 3 | 1 | |
| s FirstSource, Piney FI | | | | | Job Reference (optional) 7.640 s Oct 7 2015 MiTek Industries, Inc. Thu Nov 03 11:27:48 2016 Page 2 H7Bz_9Ds-12tnJ1NEPHNtQo7Hth155X_pSfD6gfJYAGOsRpyMx89 |
| | | individual building component. The suit | ID:iAmMffg3tW0g | hNx_OkV | H7Bz_9Ds-12tnJ1NEPHNtQo7Hth155X_pSfD6gfJYAGOsRpyMx89 |
| ıilding designer pe | er ANSI TPI 1 as refere | nced by the building code. | ability and use of this cor | пропени | or any particular building is the responsibility of the |
| form Loads (plf) | llanced): Lumber Increa | ase=1.15, Plate Increase=1.15 | N.O. 20 M.N. 20 M.N. | | W 20/5 40 0 L 40/5 |
| Vert: A-B=-6 | 0, B-C=-60, C-D=-72(F | =-12), D-F=-72(F=-12), F-G=-72(F=-12), | , N-O=-20, M-N=-20, M-V | V=-20, H-\ | W=-32(F=-12), C-L=-42(F) |
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LUMBER-

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

TOP CHORD BOT CHORD Structural wood sheathing directly applied, except end verticals.

Rigid ceiling directly applied.

REACTIONS. (lb/size) K=375/0-5-8 (min. 0-1-8), I=1015/0-3-8 (min. 0-1-8), H=255/0-5-8 (min. 0-1-8)

Max Horz K=501(LC 7)

Max Uplift K=-355(LC 8), I=-584(LC 8), H=-383(LC 9) Max Grav K=387(LC 13), I=1015(LC 1), H=334(LC 14)

 $\textbf{FORCES.} \quad \text{(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.}$

TOP CHORD B-C=-421/369, C-D=-329/543, D-E=-95/287, E-F=-194/304, B-K=-407/476, F-H=-251/436

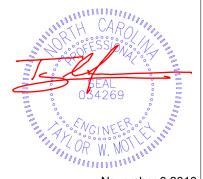
BOT CHORD J-K=-522/623, I-J=-110/365

WEBS C-J=-238/503, D-J=-559/536, D-I=-628/386, E-I=-287/493

NOTES- (10)

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) zone; 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 basic load combinations, which include cases with reductions for multiple concurrent live loads.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Bearing at joint(s) K considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) K=355, I=584, H=383.
- 8) This truss is designed in accordance with the 2009 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and ½" gypsum sheetrock be applied directly to the bottom chord.
- 10) This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

LOAD CASE(S) Standard



November 3,2016





Design valid for use only with MiTek connectors. This design is based only upon parameters shown, and is for an individual building component. Applicability of design paramenters and proper incorporation of component is responsibility of building designer - not truss engineer/designer. Bracing shown is for lateral support of individual web members only. Additional temporary bracing to insure shalling during construction is the responsibility of the erector. Additional permanent bracing of the overall structure is the responsibility of the building designer. For general guidance regarding fabrication, quality control, storage, delivery, erection and bracing, consult

ANSITPH Quality Criteria, DSB-89 and BCSI1 Building Component Safety Information available from Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719.



Job Truss Truss Type Qty H&H-NC/Jessamine/Master 812025 MASTER C03 Scissor ۱9 Job Reference (optional)
7.640 s Oct 7.2015 MiTek Industries, Inc. Thu Nov 03 11:27:51 2016 Page 1 Builders FirstSource, Piney Flats, TN 37686 ID:iAmMffg3tW0ghNx_OkVH7Bz_9Ds-SdYwx2Q6iClSHGssYpbojAcF3tDutzW_sEdW18yMx86

9-8-0 1-5-0

11-1-0

Structural wood sheathing directly applied, except end verticals.

Rigid ceiling directly applied.

Scale: 1/4"=1

6x10 MT18H ◇

2x4 || В 8.00 12 5x6 = × D 4.00 12 5x8 > 4x10 ||

| Plate Offsets (X,Y) | [B:0-7-4,0-2-4], | [D:0-3-0,Edge], [F:0-1-14,Edge] |
|---------------------|------------------|---------------------------------|
| | | |

| LOADING (psf) TCLL 20.0 | SPACING- 2-0-0 Plate Grip DOL 1.15 | CSI. TC 0.90 | DEFL. in (loc) I/defl L/d Vert(LL) -0.04 D-E >999 360 | PLATES GRIP MT20 244/190 |
|----------------------------|------------------------------------|------------------------|---|---------------------------------|
| | | | , | |
| TCDL 10.0 | Lumber DOL 1.15 | BC 0.55 | Vert(TL) -0.08 D-E >999 240 | MT18H 244/190 |
| BCLL 0.0 * | Rep Stress Incr YES | WB 0.54 | Horz(TL) 0.07 D n/a n/a | |
| BCDL 10.0 | Code IRC2009/TPI2007 | (Matrix-S) | Wind(LL) -0.10 D-E >999 240 | Weight: 78 lb FT = 20% |

BRACING-

TOP CHORD

BOT CHORD

11-1-0

LUMBER-

2x6 SP No.2 *Except* TOP CHORD

B-C: 2x4 SP No.2

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

REACTIONS. (lb/size) F=432/0-5-8 (min. 0-1-8), D=432/0-3-8 (min. 0-1-8)

Max Horz F=543(LC 8)

Max Uplift F=-161(LC 8), D=-484(LC 8)

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

TOP CHORD A-B=-511/120, B-C=-254/117, C-D=-446/181, A-F=-482/373

BOT CHORD E-F=-351/358

B-E=-215/423, B-D=-567/1054 **WEBS**

NOTES-(11)

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) zone; end vertical left 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 basic load combinations, which include cases with reductions for multiple concurrent live loads.
- 4) All plates are MT20 plates unless otherwise indicated.
- 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) Bearing at joint(s) F, D considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) F=161, D=484.
- 9) This truss is designed in accordance with the 2009 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and ½" gypsum sheetrock be applied directly to the bottom chord.
- 11) This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

LOAD CASE(S) Standard



November 3,2016



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



Job Truss Truss Type Qty H&H-NC/Jessamine/Master Ply 812025 MASTER C04 Common Girder 3 Job Reference (optional)
7.640 s Oct 7 2015 MiTek Industries, Inc. Thu Nov 03 11:27:52 2016 Page 1 Builders FirstSource, Piney Flats, TN 37686 ID:iAmMffg3tW0ghNx_OkVH7Bz_9Ds-wp6l9ORkSWtJvQR26X61GN8UhGV?cRs85uM3aayMx85 4-11-12 1-5-0 Scale = 1:46.9 4x5 = D 4x6 < 8.00 12 5x6 🥢 4x5 🖊 1-0-0 $_{\mathsf{G}}$ Q 0 Н

> 4-11-12 9-8-0 11-1-0 11-1-0

3x10 MT20HS | |

3x10 MT20HS II

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

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

7x8 =

end verticals.

| Plate Offsets (X,Y) | [A:0-5-8,Edge], | [G:0-1-12,0-4-12] |
|---------------------|-----------------|-------------------|
| | | |

| LOAD TCLL | ING (psf) 20.0 | SPACING- 2-0-0 Plate Grip DOL 1.15 | CSI. TC 0.65 | DEFL. Vert(LL) -0. | in (loc) 06 G-H | l/defl >999 | L/d 360 | PLATES MT20 | GRIP 244/190 |
|--------------|-------------------|--|------------------------|------------------------------|--------------------|----------------|------------|----------------|---------------------|
| TCDL | | Lumber DOL 1.15 | BC 0.75 | Vert(TL) -0. | | >999 >947 | 240 | MT20HS | 187/143 |
| BCLL BCDL | 0.0 * 10.0 | Rep Stress Incr NO Code IRC2009/TPI2007 | WB 0.47 | Horz(TL) 0.0 Wind(LL) 0.1 | | n/a >999 | n/a 240 | Woight: 195 lb | FT = 20% |
| RCDL | 10.0 | Code IRC2009/1PI2007 | (Matrix-M) | Wind(LL) 0. | 10 G-H | >999 | 240 | Weight: 185 lb | F1 = 20% |

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SP No.2

BOT CHORD 2x6 SP No.1 2x4 SP No.2 WFBS

SLIDER Left 2x6 SP No.2 2-0-0

REACTIONS. (lb/size) A=3536/0-5-8 (min. 0-2-1), F=4292/0-3-8 (min. 0-2-9)

Max Horz A=509(LC 6)

Max Uplift A=-2191(LC 6), F=-3031(LC 6) Max Grav A=3536(LC 1), F=4340(LC 2)

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

A-B=-2718/1625, B-C=-3991/2473, C-D=-1009/612, D-E=-961/663, E-F=-4284/2945 TOP CHORD A-M=-2391/3266, M-N=-2391/3266, H-N=-2391/3266, H-O=-2391/3266, O-P=-2391/3266,

4x12 ||

BOT CHORD G-P=-2391/3266

WEBS C-H=-2239/3551, C-G=-3232/2408, D-G=-661/942, E-G=-2634/3807

NOTES-(13)

1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:

Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.

Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-6-0 oc.

Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.

- 2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- 3) Unbalanced roof live loads have been considered for this design.
- 4) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone; end vertical left exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 5) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
- 6) All plates are MT20 plates unless otherwise indicated.
- 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb)
- 10) This truss is designed in accordance with the 2009 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 11) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
- 12) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1390 lb down and 874 lb up at 2-0-12, 1475 lb down and 912 lb up at 4-0-12, 1428 lb down and 928 lb up at 6-0-12, and 1428 lb down and 928 lb up at 8-0-12, and 1429 lb down and 927 lb up at 10-0-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 13) This manufactured truss is designed as an individual building component. The suitability and use of this component for any Contractigular bailding is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.



November 3,2016



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



| Job | Truss | Truss Type | Qty | Ply | H&H-NC/Jessamine/Master | | |
|--|--|---------------|-----|-----|---|--|--|
| 812025_MASTER | C04 | Common Girder | 3 | 2 | | | |
| Builders FirstSource, Piney Flats, | TN 37686 | | | | Job Reference (optional) 7.640 s Oct 7 2015 MiTek Industries, Inc. Thu Nov 03 11:27:52 2016 Page 2 vz_9Ds-wp6l9ORkSWtJvQR26X61GN8UhGV?cRs85uM3aayMx85 | | |
| | ID:iAmMffg3tW0ghNx_OkVH7Bz_9Ds-wp6l9ORkSWtJvQR26X61GN8UhGV?cRs85uM3aayMx85 | | | | | | |
| Uniform Loads (plf) Vert: A-D=-60, [Concentrated Loads (lb) | Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: A-D=-60, D-E=-60, F-I=-20 | | | | | | |
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Job Truss Truss Type Qty H&H-NC/Jessamine/Master Ply 812025 MASTER C05 Roof Special Girder Job Reference (optional)
7.640 s Oct 7 2015 MiTek Industries, Inc. Thu Nov 03 11:27:52 2016 Page 1 Builders FirstSource, Piney Flats, TN 37686 ID:iAmMffg3tW0ghNx_OkVH7Bz_9Ds-wp6l9ORkSWtJvQR26X61GN8ZoGc5cRs85uM3aayMx85 Scale = 1:42.6 2x4 || Α 8.00 12 5x6 > 3x4 ≫ С ПГ ПГ Κ L Μ Е F _{7x8} = HTU26 4x12 || 4x10 || HTU26 HTU26 HTU26 4-3-4 8-6-8 8-6-8 Plate Offsets (X,Y)-- [D:0-6-1,0-0-12], [F:Edge,0-5-4]

TCDL 10.0 **BCLL** 0.0

SPACING-2-0-0 CSI. Plate Grip DOL TC 0.32 1 15 Lumber DOL 1.15 ВС 0.29 Rep Stress Incr WB 0.47 NO Code IRC2009/TPI2007 (Matrix-M)

DEFL. (loc) I/defl -0.02 F-F >999 360 Vert(LL) Vert(TL) -0.05 E-F >999 240 Horz(TL) 0.00 D n/a n/a Wind(LL) 0.04 E-F >999 240

GRIP PLATES 244/190 MT20

Weight: 130 lb FT = 20%

LUMBER-

SLIDER

TCLL

BCDL

LOADING (psf)

TOP CHORD 2x4 SP No.2

20.0

10.0

BOT CHORD 2x8 SP DSS 2x4 SP No.2 WFBS

Right 2x4 SP No.3 2-0-0

BRACING-

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

end verticals.

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

REACTIONS. (lb/size) D=3617/0-5-8 (min. 0-2-2), F=3733/0-3-8 (min. 0-2-3)

Max Horz F=-486(LC 7)

Max Uplift D=-2359(LC 7), F=-2825(LC 7)

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

TOP CHORD B-C=-3324/2121, C-D=-2394/1524

BOT CHORD F-K=-1668/2727, K-L=-1668/2727, E-L=-1668/2727, E-M=-1668/2727, M-N=-1668/2727,

D-N=-1668/2727

WEBS B-F=-3498/2696, B-E=-2617/3809

NOTES-(12)

- 1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
 - Top chords connected as follows: 2x4 1 row at 0-9-0 oc.

Bottom chords connected as follows: 2x8 - 2 rows staggered at 0-6-0 oc.

Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.

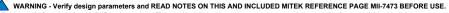
- 2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- 3) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone; end vertical right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 4) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) D=2359, F=2825, 8) This truss is designed in accordance with the 2009 International Residential Code sections R502.11.1 and R802.10.2 and
- referenced standard ANSI/TPI 1. 9) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
- 10) Use Simpson Strong-Tie HTU26 (20-10d Girder, 14-10dx1 1/2 Truss, Single Ply Girder) or equivalent spaced at 2-0-0 oc max. starting at 1-3-4 from the left end to 7-3-4 to connect truss(es) A05 (1 ply 2x6 SP) to back face of bottom chord.
- 11) Fill all nail holes where hanger is in contact with lumber.
- 12) This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

LOAD CASE(S) Standard

November 3,2016



Continued on page 2



Design valid for use only with MiTek connectors. This design is based only upon parameters shown, and is for an individual building component Applicability of design paramenters and proper incorporation of component is responsibility of building designer - not truss engineer/designer. Bracing shown replacements of the state of th



STREET CAROLINA

| bb | Truss | Truss Type | Qty | Ply | H&H-NC/Jessamine/Master |
|----------------------------------|-------------------------|----------------------------|------------------|----------|--|
| 2025_MASTER | C05 | Roof Special Girder | | | |
| | | | | | \frac{2}{Job Reference (optional)} 7.640 s Oct 7 2015 MiTek Industries, Inc. Thu Nov 03 11:27:52 2016 Page: 17Bz_9Ds-wp6l9ORkSWtJvQR26X61GN8ZoGc5cRs85uM3aayMx85 |
| Builders FirstSource, Piney Flat | S, IN 3/000 | | ID:iAmMffg3tW0gl | nNx_OkVH | 7.040 s Oct 7.2015 wittek industries, Inc. Thu Nov 03 11:27:52 2016 Page 2 17Bz_9Ds-wp6l9ORkSWtJvQR26X61GN8ZoGc5cRs85uM3aayMx85 |
| 040 0405/51 0/ | | | | | |
| OAD CASE(S) Standar | rd | -4.45 Dista Insurance 4.45 | | | |
| Uniform Loads (plf) | inced): Lumber Increase | =1.15, Plate Increase=1.15 | | | |
| Vert: A-D=-60, | E C= 20 | | | | |
| Concentrated Loads (It | , r -G=-20 n) | | | | |
| Vert: K=-1670 | (B) L=-1670(B) M=-1670 | 0(B) N=-1670(B) | | | |
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Job Truss Truss Type Qty H&H-NC/Jessamine/Master Ply 812025 MASTER C11 GABLE Job Reference (optional) 7.640 s Oct 7 2015 MiTek Industries, Inc. Thu Nov 03 11:27:54 2016 Page 1 ID:iAmMffg3tW0ghNx_OkVH7Bz_9Ds-sCE2a4S?_7719jaQDx8VLoEtH4JI4JNRYBrAeTyMx83 Builders FirstSource, Piney Flats, TN 37686 -0-10-8 0-10-8 4-8-4 4-0-8 4-11-12 Scale = 1:57.4 4x5 = D 3x5 // 10.00 12 4x5 📏 C Е 6x8 = B-M 2x6 || M-A М 5x7 =5x6 5.00 12 K Л Н

> 10-9-8 19-4-0 0-10-8 0-10-8 19-4-0

6x8 =

| Plate Off | Plate Offsets (X,Y) [B:0-3-8,Edge] | | | | | 10 4 0 | | | | | - 10 0 | |
|-----------|------------------------------------|-----------------|--------|-------|-------|----------|-------|-------|--------|-----|----------------|----------|
| LOADIN | G (psf) | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | I/defl | L/d | PLATES | GRIP |
| TCLL | 20.0 | Plate Grip DOL | 1.15 | TC | 0.45 | Vert(LL) | -0.03 | M-N | >999 | 360 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.22 | Vert(TL) | -0.07 | M-N | >999 | 240 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.59 | Horz(TL) | 0.03 | L | n/a | n/a | | |
| BCDL | 10.0 | Code IRC2009/TF | PI2007 | (Matr | ix-S) | Wind(LL) | 0.02 | M | >999 | 240 | Weight: 158 lb | FT = 20% |

LUMBER-**BRACING-**

3x5

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

Rigid ceiling directly applied. 2x4 SP No.3 *Except* WFBS WFBS 1 Row at midnt B-N,F-H: 2x4 SP No.2

OTHERS 2x4 SP No.3

REACTIONS. All bearings 8-6-8 except (jt=length) N=0-5-8.

(lb) - Max Horz N=625(LC 7)

Max Uplift All uplift 100 lb or less at joint(s) except N=-328(LC 9), L=-716(LC 8), H=-396(LC 9) Max Grav All reactions 250 lb or less at joint(s) K, J, I except N=390(LC 1), L=932(LC 1), L=932(LC 1),

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

TOP CHORD B-C=-388/177, C-D=-194/407, D-E=-126/348, E-F=-160/440, B-N=-391/493, F-H=-239/541

BOT CHORD M-N=-763/730, L-M=-480/708

C-M=-344/603, C-L=-585/624, D-L=-422/212, E-L=-246/562, B-M=-20/377 **WEBS**

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) zone; 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 study 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) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
- 5) All plates are 2x4 MT20 unless otherwise indicated.
- 6) Gable studs spaced at 2-0-0 oc.
- 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.

10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 328 lb uplift at joint N, 716 lb uplift at

- 9) Bearing at joint(s) N considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- joint L and 396 lb uplift at joint H. 11) This truss is designed in accordance with the 2009 International Residential Code sections R502.11.1 and R802.10.2 and
- referenced standard ANSI/TPI 1. 12) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and ½" gypsum

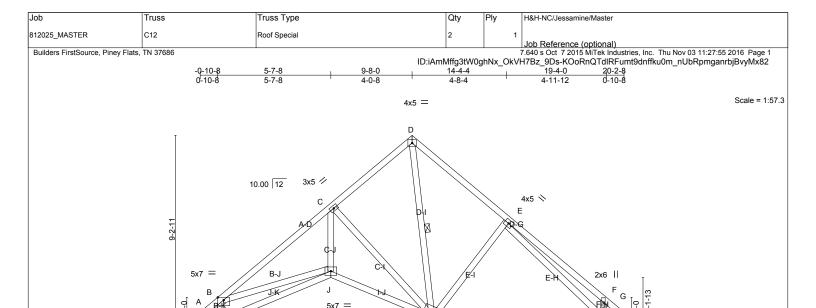
sheetrock be applied directly to the bottom chord.

CAROLINA CAROLINA

Structural wood sheathing directly applied, except end verticals.

November 3,2016





10-9-8 10-11-4 19-4-0 0-10-8 0-10-8 19-4-0

7x10 >

| Plate Off | Plate Offsets (X,Y) [1:0-5-0,0-2-14] | | | | |
|-----------|--------------------------------------|----------------------|------------|-----------------------------|-------------------------|
| LOADIN | G (psf) | SPACING- 2-0-0 | CSI. | DEFL. in (loc) I/defl L/d | PLATES GRIP |
| TCLL | 20.0 | Plate Grip DOL 1.15 | TC 0.66 | Vert(LL) -0.13 H-I >770 360 | MT20 244/190 |
| TCDL | 10.0 | Lumber DOL 1.15 | BC 0.51 | Vert(TL) -0.33 H-I >309 240 | |
| BCLL | 0.0 * | Rep Stress Incr YES | WB 0.59 | Horz(TL) 0.03 I n/a n/a | |
| BCDL | 10.0 | Code IRC2009/TPI2007 | (Matrix-S) | Wind(LL) 0.02 J >999 240 | Weight: 129 lb FT = 20% |

LUMBER-**BRACING-**

TOP CHORD 2x4 SP No.2 TOP CHORD Structural wood sheathing directly applied, except end verticals. 2x4 SP No.2 BOT CHORD BOT CHORD Rigid ceiling directly applied. WFBS 2x4 SP No 3 WFBS 1 Row at midnt

REACTIONS. (lb/size) K=396/0-5-8 (min. 0-1-8), I=967/0-3-8 (min. 0-1-8), H=282/0-5-8 (min. 0-1-8)

Max Horz K=625(LC 7)

Max Uplift K=-325(LC 9), I=-693(LC 8), H=-367(LC 9) Max Grav K=396(LC 1), I=967(LC 1), H=342(LC 14)

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

3x5

TOP CHORD B-C=-399/171, C-D=-204/399, D-E=-139/338, E-F=-283/390, B-K=-396/489, F-H=-310/508

BOT CHORD J-K=-760/731, I-J=-477/711

WEBS C-J=-349/600, C-I=-583/629, D-I=-400/226, E-I=-257/558, B-J=-17/377, E-H=-177/294

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) zone; 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

5.00 12

- 3) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Bearing at joint(s) K considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 325 lb uplift at joint K, 693 lb uplift at joint I and 367 lb uplift at joint H.
- 8) This truss is designed in accordance with the 2009 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and ½" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard



5x6 =

November 3,2016



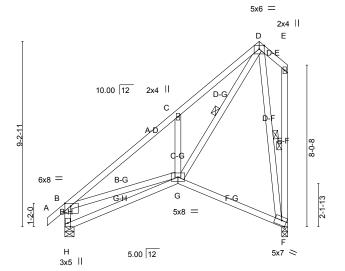
MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 BEFORE USE.



Job Truss Truss Type Qty Ply H&H-NC/Jessamine/Master 812025 MASTER C13 Scissor 3 Job Reference (optional)
7.640 s Oct 7 2015 MiTek Industries, Inc. Thu Nov 03 11:27:56 2016 Page 1 Builders FirstSource, Piney Flats, TN 37686 ID:iAmMffg3tW0ghNx_OkVH7Bz_9Ds-obLp?mUFWkNIO1kpLMBzQDJ8ru?4YHEj0VKHjLyMx81

0-10-8 11-1-0 4-0-8

Scale = 1:57.3



11-1-0 0-10-8 11-1-0

| Flate Oil | SE(S (A, I) | [b.0-3-6,Euge], [r.0-2-13,Euge] | | | |
|-----------|--------------|---------------------------------|-------------|----------------------------------|------------------------|
| LOADING | G (psf) | SPACING- 2-0-0 | CSI. | DEFL. in (loc) I/defl L/d | PLATES GRIP |
| TCLL | 20.0 | Plate Grip DOL 1.15 | TC 0.70 | Vert(LL) -0.03 F-G >999 360 | MT20 244/190 |
| TCDL | 10.0 | Lumber DOL 1.15 | BC 0.23 | Vert(TL) -0.08 F-G >999 240 | |
| BCLL | 0.0 * | Rep Stress Incr YES | WB 0.38 | Horz(TL) -0.05 F n/a n/a | |
| BCDL | 10.0 | Code IRC2009/TPI2007 | (Matrix-S) | Wind(LL) 0.05 G >999 240 | Weight: 91 lb FT = 20% |

BRACING-TOP CHORD

BOT CHORD

WFBS

LUMBER-

REACTIONS.

WFBS

Dieta Officata (V.V.)

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

2x4 SP No 3

(lb/size) H=496/0-5-8 (min. 0-1-8), F=429/0-3-8 (min. 0-1-8)

Max Horz H=776(LC 8)

Max Uplift H=-175(LC 8), F=-583(LC 8)

[D:0 3 9 Edgo] [E:0 2 15 Edgo]

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

TOP CHORD B-C=-613/390, C-D=-596/872, B-H=-499/590

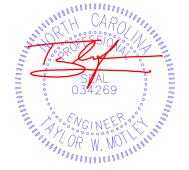
BOT CHORD G-H=-989/227

WEBS C-G=-303/705, D-G=-1157/640, B-G=0/250, D-F=-382/646

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) zone; end vertical left 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 basic load combinations, which include cases with reductions for multiple concurrent live loads.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Bearing at joint(s) H, F considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 175 lb uplift at joint H and 583 lb uplift at ioint F.
- 8) This truss is designed in accordance with the 2009 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and ½" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard



Structural wood sheathing directly applied, except end verticals.

D-G. E-F. D-F

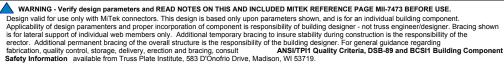
Rigid ceiling directly applied.

1 Row at midpt

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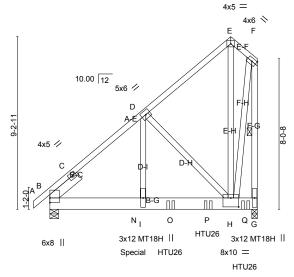








Scale = 1:61.6



4-11-12 9-8-0 11-1-0 0-10-8 11-1-0

| Plate Offsets (X,Y) [H:0-5-0,0-5-12] |
|--------------------------------------|
|--------------------------------------|

| LOADIN | IC (not) | SDACING 200 | CCI | DEEL : | . //aa\ | I/d of | l /d | DIATES | CDID |
|--------|------------------|----------------------|------------|-----------------|---------|--------|------|----------------|----------|
| LOADIN | i G (pst) | SPACING- 2-0-0 | CSI. | DEFL . i | ı (loc) | I/defl | L/d | PLATES | GRIP |
| TCLL | 20.0 | Plate Grip DOL 1.15 | TC 0.52 | Vert(LL) -0.0 | 5 H-I | >999 | 360 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL 1.15 | BC 0.32 | Vert(TL) -0.12 | 2 H-I | >999 | 240 | MT18H | 244/190 |
| BCLL | 0.0 * | Rep Stress Incr NO | WB 0.69 | Horz(TL) -0.0 | G | n/a | n/a | | |
| BCDL | 10.0 | Code IRC2009/TPI2007 | (Matrix-M) | Wind(LL) 0.12 | 2 H-I | >999 | 240 | Weight: 226 lb | FT = 20% |

BRACING-

TOP CHORD

BOT CHORD

WEBS

end verticals.

1 Row at midpt

LUMBER-

REACTIONS.

TOP CHORD 2x4 SP No.2

BOT CHORD 2x8 SP DSS WEBS 2x4 SP No.2

SLIDER Left 2x6 SP No.2 1-11-12

(lb/size) B=2661/0-5-8 (min. 0-1-9), G=4528/0-3-8 (min. 0-2-11)

Max Horz B=725(LC 6)

Max Uplift B=-2924(LC 6), G=-4311(LC 6)

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

TOP CHORD B-C=-1843/2243, C-D=-3223/3462, D-E=-778/653, E-F=-707/684, F-G=-3581/3479 B-N=-3060/2399, I-N=-3060/2399, I-O=-3060/2399, O-P=-3060/2399, H-P=-3060/2399

WEBS D-I=-4139/3274, D-H=-2682/3646, E-H=-818/758, F-H=-3090/3156

NOTES-

- 1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
 - Top chords connected as follows: 2x4 1 row at 0-9-0 oc.
 - Bottom chords connected as follows: 2x8 2 rows staggered at 0-4-0 oc.
- Webs connected as follows: 2x4 1 row at 0-9-0 oc.
- 2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- 3) Unbalanced roof live loads have been considered for this design.
- 4) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone; end vertical left exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 5) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
- 6) All plates are MT20 plates unless otherwise indicated.
- 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 2924 lb uplift at joint B and 4311 lb uplift at joint G.
- 10) This truss is designed in accordance with the 2009 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 11) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss
- 12) Use Simpson Strong-Tie HTU26 (20-10d Girder, 14-10dx1 1/2 Truss, Single Ply Girder) or equivalent spaced at 2-0-0 oc max. starting at 6-5-8 from the left end to 10-5-8 to connect truss(es) A13 (1 ply 2x6 SP), A14 (1 ply 2x6 SP), A15 (1 ply 2x6 SP) to back face of bottom chord.
- 13) Fill all nail holes where hanger is in contact with lumber.
- 14) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 2085 lb down and 3410 lb up at 4-6-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.



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

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

F-G

November 3,2016

COADUGASE(S)geStandard



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 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. Applicability of design paramenters and proper incorporation of component is responsibility of building designer - not truss engineer/designer. Bracing shown is for lateral support of individual web members only. Additional temporary bracing to insure stability during construction is the responsibility of the erector. Additional permanent bracing of the overall structure is the responsibility of the building designer. For general guidance regarding fabrication, quality control, storage, delivery, erection and bracing, consult

ANSI/TPI1 Quality Criteria, DSB-89 and BCSI1 Building Component Safety Information available from Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719.



| Job | Truss | Truss Type | Qty | Ply | H&H-NC/Jessamine/Master |
|------------------------------------|----------|---------------|------------|---------|---|
| 812025_MASTER | C14 | Common Girder | 1 | 2 | Job Reference (optional) |
| Builders FirstSource, Piney Flats, | TN 37686 | | | | 7.640 s Oct 7 2015 MiTek Industries, Inc. Thu Nov 03 11:27:57 2016 Page 2 |
| | | ID:iAmN | lffg3tW0gh | Nx_OkVH | 7Bz_9Ds-HnvBC6UtH2Vc0BJ?v4iCzRsMQHKuHfYtF94qFoyMx80 |

LOAD CASE(S) Standard

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

Job Truss Truss Type Qty H&H-NC/Jessamine/Master Ply 812025 MASTER C15 Roof Special Girder Job Reference (optional)
7.640 s Oct 7 2015 MiTek Industries, Inc. Thu Nov 03 11:27:58 2016 Page 1 Builders FirstSource, Piney Flats, TN 37686

ID:iAmMffg3tW0ghNx_OkVH7Bz_9Ds-IzTZPSVV2MeSdLuCSnDRVeOaAhfW09O0TppOnEyMx8?

2x4 || Α 10.00 12 5x7 🛇 R 4x5 🚿 D \boxtimes

> 8-6-8 8-6-8

Е

4x12 Ш

L

HTU26

M

HTU28

BRACING-

TOP CHORD

BOT CHORD

WEBS

4x12 ||

end verticals.

1 Row at midpt

HTU28

Κ

7x8 = HTU26

| Plate Off | Plate Offsets (X,Y) [F:Edge,0-5-8] | | | |
|-----------|------------------------------------|----------------------|------------|--|
| LOADIN | G (psf) | SPACING- 2-0-0 | CSI. | DEFL. in (loc) I/defl L/d PLATES GRIP |
| TCLL | 20.0 | Plate Grip DOL 1.15 | TC 0.33 | Vert(LL) -0.02 E-F >999 360 MT20 244/190 |
| TCDL | 10.0 | Lumber DOL 1.15 | BC 0.29 | Vert(TL) -0.05 E-F >999 240 |
| BCLL | 0.0 * | Rep Stress Incr NO | WB 0.46 | Horz(TL) 0.00 D n/a n/a |
| BCDL | 10.0 | Code IRC2009/TPI2007 | (Matrix-M) | Wind(LL) 0.04 E-F >999 240 Weight: 145 lb FT = 20% |

LUMBER-

TOP CHORD 2x4 SP No.2

BOT CHORD 2x8 SP DSS 2x4 SP No.2 WFBS

SLIDER Right 2x6 SP No.2 1-11-12

REACTIONS. (lb/size) F=3418/0-3-8 (min. 0-2-0), D=3933/0-5-8 (min. 0-2-5)

Max Horz F=-608(LC 7)

Max Uplift F=-2715(LC 7), D=-2468(LC 7)

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

TOP CHORD B-C=-2876/1747, C-D=-2104/1382

BOT CHORD F-K=-1334/2165, K-L=-1334/2165, E-L=-1334/2165, E-M=-1334/2165, M-N=-1334/2165,

D-N=-1334/2165

WEBS B-F=-3086/2496, B-E=-2648/3782

1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows: Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.

Bottom chords connected as follows: 2x8 - 2 rows staggered at 0-6-0 oc. Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.

- 2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- 3) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone; end vertical right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 4) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 2715 lb uplift at joint F and 2468 lb uplift at joint D.
- 8) This truss is designed in accordance with the 2009 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 9) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
- 10) Use Simpson Strong-Tie HTU26 (20-10d Girder, 14-10dx1 1/2 Truss, Single Ply Girder) or equivalent spaced at 2-0-0 oc max. starting at 1-8-0 from the left end to 3-8-0 to connect truss(es) A05 (1 ply 2x6 SP) to back face of bottom chord.
- 11) Use Simpson Strong-Tie HTU28 (26-10d Girder, 14-10dx1 1/2 Truss, Single Ply Girder) or equivalent spaced at 2-0-0 oc max. starting at 5-8-0 from the left end to 7-8-0 to connect truss(es) A05 (1 ply 2x6 SP) to back face of bottom chord.

12) Fill all nail holes where hanger is in contact with lumber.

LOAD CASE(S) Standard

November 3,2016

Scale = 1:52.8



Continued on page 2

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

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

A-F

| Job | Truss | Truss Type | Qty | Ply | H&H-NC/Jessamine/Master |
|---------------|-------|---------------------|-----|-----|--------------------------|
| 312025_MASTER | C15 | Roof Special Girder | 1 | 2 | Job Reference (optional) |
| | | | | | |

Builders FirstSource, Piney Flats, TN 37686

7.640 s Oct 7 2015 MiTek Industries, Inc. Thu Nov 03 11:27:58 2016 Page 2 ID:iAmMffg3tW0ghNx_OkVH7Bz_9Ds-IzTZPSVV2MeSdLuCSnDRVeOaAhfW09O0TppOnEyMx8?

LOAD CASE(S) Standard

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

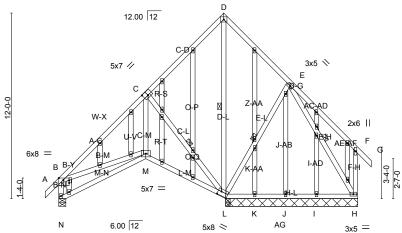
Vert: A-D=-60, F-G=-20 Concentrated Loads (lb)

Vert: K=-1670(B) L=-1670(B) M=-1670(B) N=-1671(B)

Job Truss Truss Type Qty H&H-NC/Jessamine/Master 812025 MASTER C21 GABLE Job Reference (optional)
7.640 s Oct 7 2015 MiTek Industries, Inc. Thu Nov 03 11:28:00 2016 Page 1 Builders FirstSource, Piney Flats, TN 37686 ID:iAmMffg3tW0ghNx_OkVH7Bz_9Ds-hMbKq7XlazuAte2aaCFvb3Ur9VMiU4wJx7IUr7yMx7z

-0<u>-10-8</u> 14-10-4 5-0-8 4-2-4 4-5-12

> Scale = 1:74.5 4x5 =



10-9-8 19-4-0 0-10-8 0-10-8 19-4-0

| Plate Offsets (X,Y) | [B:0-2-0,0-0-0], [B:0-3-8,Edge] | , [C:0-3-8,0-3-4], [L:0-2-8,0-3-0] |
|---------------------|---------------------------------|------------------------------------|
| | | |

| TCDL 10 BCLL 0 | 0.ó 0.0 0.0 * | SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr | 2-0-0 1.15 1.15 YES | CSI. TC BC WB | 0.68 0.25 0.40 | DEFL. Vert(LL) Vert(TL) Horz(TL) | -0.03 -0.09 0.05 | (loc) M-N M-N H | l/defl >999 >999 n/a | L/d 360 240 n/a | PLATES MT20 | GRIP 244/190 |
|-------------------|---------------------|---|------------------------------|------------------------|----------------------|---|------------------------|--------------------------|-------------------------------|--------------------------|----------------|---------------------|
| | 0.0 | Code IRC2009/TP | 12007 | (Matr | ix-M) | Wind(LL) | 0.03 | М | >999 | 240 | Weight: 213 lb | FT = 20% |

LUMBER-**BRACING-**

TOP CHORD 2x4 SP No.2 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except

2x4 SP No.2 BOT CHORD end verticals.

2x4 SP No.3 *Except* **BOT CHORD** WFBS Rigid ceiling directly applied or 5-8-8 oc bracing. WEBS

B-N,F-H: 2x4 SP No.2 1 Row at midpt C-L, D-L, E-L, E-H **OTHERS** 2x4 SP No.3

All bearings 8-6-8 except (jt=length) N=0-5-8. REACTIONS.

(lb) - Max Horz N=883(LC 7)

Max Uplift All uplift 100 lb or less at joint(s) except N=-341(LC 9), L=-871(LC 8), H=-319(LC 9) Max Grav All reactions 250 lb or less at joint(s) K, J, I except N=394(LC 1), L=919(LC 1), L=919(LC 1),

H=279(LC 14)

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

TOP CHORD B-C=-385/129, C-D=-312/541, D-E=-141/436, E-F=-96/549, B-N=-387/483, F-H=-187/633 BOT CHORD M-N=-1073/945, L-M=-697/903, K-L=-42/269, K-AG=-42/269, J-AG=-42/269, I-J=-42/269,

H-I=-42/269

C-M=-624/871, C-L=-738/882, D-L=-597/354, E-L=-203/646, B-M=-29/497, E-H=-341/92

WFBS NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) zone; 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 study 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) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
- 5) All plates are 2x4 MT20 unless otherwise indicated.
- 6) Gable studs spaced at 2-0-0 oc.
- 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, with BCDL = 10.0psf.
- 9) Bearing at joint(s) N considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 341 lb uplift at joint N, 871 lb uplift at joint L and 319 lb uplift at joint H.
- 11) This truss is designed in accordance with the 2009 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 12) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.

LOAD CASE(S) Standard

November 3,2016



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 BEFORE USE

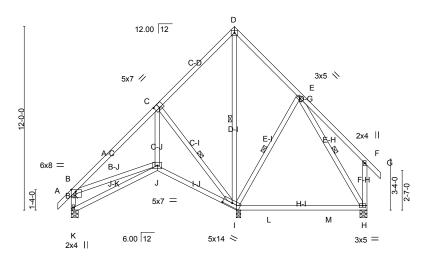


Job Truss Truss Type Qty H&H-NC/Jessamine/Master 812025 MASTER C22 Roof Special 2 Job Reference (optional)
7.640 s Oct 7 2015 MiTek Industries, Inc. Thu Nov 03 11:28:01 2016 Page 1 Builders FirstSource, Piney Flats, TN 37686

ID:iAmMffg3tW0ghNx_OkVH7Bz_9Ds-9Y9i2TYOLH01Uodn8wm87H00uvguDXNSAn22NZyMx7y 14-10-4 5-0-8 4-2-4 4-5-12

> Scale = 1:75.3 4x5 =

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



10-9-8 10-11-4 19-4-0 0-10-8 19<u>-4-0</u> 0-10-8

| Plate Offsets (X,Y) | [B:0-3-8,Edge], [C:0-3-8,0-3-4], [I:0-7-4,0-2-12] | |
|---------------------|---|--|
| | | |

| LOADIN | IG (psf) 20.0 | SPACING- 2-0-0 Plate Grip DOL 1.15 | CSI. TC 0.68 | DEFL. Vert(LL) | in (loc -0.20 H- | , | L/d 360 | PLATES GRIP MT20 244/190 | |
|--------|------------------|---------------------------------------|------------------------|--------------------------|---------------------|--------|------------|-----------------------------|--|
| TCDL | 10.0 | Lumber DOL 1.15 | BC 0.38 | Vert(TL) | -0.41 H- | l >248 | 240 | | |
| BCLL | 0.0 * | Rep Stress Incr YES | WB 0.39 | Horz(TL) | 0.05 H | l n/a | n/a | | |
| BCDL | 10.0 | Code IRC2009/TPI2007 | (Matrix-M) | Wind(LL) | 0.03 | J >999 | 240 | Weight: 149 lb FT = 20% | |

LUMBER-**BRACING-**

TOP CHORD 2x4 SP No.1 TOP CHORD

2x4 SP SS BOT CHORD end verticals. Rigid ceiling directly applied or 6-0-0 oc bracing. **BOT CHORD** WFBS 2x4 SP No 3

WEBS 1 Row at midpt C-I, D-I, E-I, E-H REACTIONS.

(lb/size) K=400/0-5-8 (min. 0-1-8), I=958/0-3-8 (min. 0-1-8), H=287/0-5-8 (min. 0-1-8) Max Horz K=883(LC 7)

Max Uplift K=-337(LC 9), I=-837(LC 8), H=-286(LC 9) Max Grav K=400(LC 1), I=958(LC 1), H=348(LC 16)

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

TOP CHORD B-C=-395/131, C-D=-309/528, D-E=-138/428, E-F=-137/533, B-K=-391/480, F-H=-206/621

BOT CHORD J-K=-1069/942, I-J=-707/913, I-L=-32/274, L-M=-32/274, H-M=-32/274

WEBS C-J=-634/873, C-I=-740/890, D-I=-579/350, E-I=-206/646, B-J=-18/489, E-H=-332/116

NOTES-

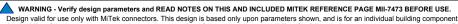
- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Bearing at joint(s) K considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 337 lb uplift at joint K, 837 lb uplift at joint I and 286 lb uplift at joint H.
- 8) This truss is designed in accordance with the 2009 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 9) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.

LOAD CASE(S) Standard



November 3,2016



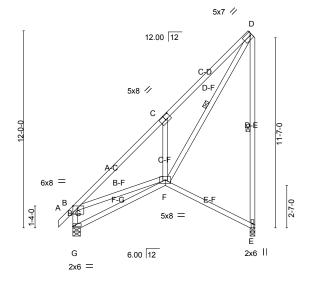




Job Truss Truss Type Qty Ply H&H-NC/Jessamine/Master 812025 MASTER C23 Scissor 3 Job Reference (optional)
7.640 s Oct 7 2015 MiTek Industries, Inc. Thu Nov 03 11:28:02 2016 Page 1 Builders FirstSource, Piney Flats, TN 37686

ID:iAmMffg3tW0ghNx_OkVH7Bz_9Ds-dlj4FpY06a8u6yBzhdHNgUZ8PI27ysVcORnbv?yMx7x 10-8-0 5-0-8

Scale = 1:70.2



11-1-0 0-10-8 11-1-0

| Plate Offsets (X,Y) | [B:0-3-8,Edge], [C:0-4-0,0-3-0] |
|---------------------|---------------------------------|
| | |

| LOADIN | G (psf) | SPACING- 2-0-0 | CSI. | DEFL. | in | (loc) | I/defl | L/d | PLATES | GRIP |
|--------|---------|----------------------|------------|----------|-------|-------|--------|-----|---------------|----------|
| TCLL | 20.0 | Plate Grip DOL 1.15 | TC 0.89 | Vert(LL) | -0.04 | È-É | >999 | 360 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL 1.15 | BC 0.25 | Vert(TL) | -0.10 | E-F | >999 | 240 | | |
| BCLL | 0.0 * | Rep Stress Incr YES | WB 0.91 | Horz(TL) | -0.09 | E | n/a | n/a | | |
| BCDL | 10.0 | Code IRC2009/TPI2007 | (Matrix-M) | Wind(LL) | 0.07 | F | >999 | 240 | Weight: 91 lb | FT = 20% |

BRACING-

TOP CHORD

BOT CHORD

WEBS

end verticals.

1 Row at midpt

LUMBER-

REACTIONS.

TOP CHORD 2x4 SP No.2

2x4 SP No.2 BOT CHORD

WFBS 2x4 SP No 3

> (lb/size) G=496/0-5-8 (min. 0-1-8), E=429/0-3-8 (min. 0-1-8) Max Horz G=1117(LC 8)

Max Uplift E=-925(LC 8)

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

TOP CHORD B-C=-587/163, C-D=-604/883, B-G=-485/494, D-E=-379/959

BOT CHORD F-G=-1368/170

WEBS C-F=-355/978, D-F=-1618/664, B-F=0/399

NOTES-

- 1) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) zone; end vertical left 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 basic load combinations, which include cases with reductions for multiple concurrent live loads.
- 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) Bearing at joint(s) G, E considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 925 lb uplift at joint E.
- 7) This truss is designed in accordance with the 2009 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 8) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.

LOAD CASE(S) Standard



Structural wood sheathing directly applied or 2-2-0 oc purlins, except

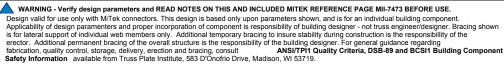
D-F, D-E

Rigid ceiling directly applied or 5-0-12 oc bracing.

November 3,2016









Job Truss Truss Type Qty H&H-NC/Jessamine/Master Ply 812025 MASTER C24 Common Girder 2 Job Reference (optional)
7.640 s Oct 7 2015 MiTek Industries, Inc. Thu Nov 03 11:28:03 2016 Page 1

Builders FirstSource, Piney Flats, TN 37686

ID:iAmMffg3tW0ghNx_OkVH7Bz_9Ds-5xHST9ZetuGlk6m9FKpcCi6M2iLChMVld5X8SRyMx7w

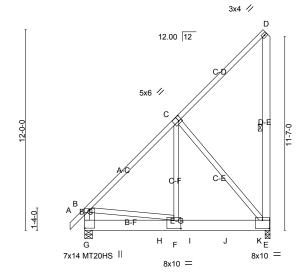
Structural wood sheathing directly applied or 6-0-0 oc purlins, except

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

D-E

-0<u>-10-8</u>

Scale = 1:68.9



11-1-0 0-10-8 11-1-0

BRACING-

TOP CHORD

BOT CHORD

WEBS

end verticals.

1 Row at midpt

| Plate Offsets (X,Y) | [C:0-2-4,0-3-4], | [E:0-5-0,0-6-0], | [F:0-5-0,0-6-0], | [G:Edge,0-3-8] |
|---------------------|------------------|------------------|------------------|----------------|
| | | | | |

| LOA TCLI | DING (psf) L 20.0 | SPACING- 2-0-0 Plate Grip DOL 1.15 | CSI . TC 0.64 | DEFL. in (loc) I/defl L/d Vert(LL) -0.04 E-F >999 360 | PLATES GRIP MT20 244/190 |
|-------------|-----------------------------|------------------------------------|-------------------------|---|---------------------------------|
| _ | | | | , | |
| TCD | L 10.0 | Lumber DOL 1.15 | BC 0.39 | Vert(TL) -0.09 E-F >999 240 | MT20HS 187/143 |
| BCLI | L 0.0 * | Rep Stress Incr NO | WB 0.73 | Horz(TL) -0.01 E n/a n/a | |
| BCD | L 10.0 | Code IRC2009/TPI2007 | (Matrix-M) | Wind(LL) 0.08 F-G >999 240 | Weight: 228 lb FT = 20% |

LUMBER-

TOP CHORD 2x4 SP No.2

2x8 SP DSS BOT CHORD 2x4 SP No.2 *Except* WFBS

D-E: 2x6 SP No.2

REACTIONS. (lb/size) G=2627/0-5-8 (min. 0-1-9), E=4499/0-3-8 (min. 0-2-10)

Max Horz G=1097(LC 6)

Max Uplift G=-3073(LC 4), E=-5060(LC 6)

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

TOP CHORD B-C=-2855/3254, C-D=-290/72, B-G=-2465/2634, D-E=-124/357

BOT CHORD G-H=-1552/259, F-H=-1552/259, F-I=-2770/1914, I-J=-2770/1914, J-K=-2770/1914,

WEBS C-F=-5100/3830, B-F=-2070/1708, C-E=-2940/4263

1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:

Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc.

Bottom chords connected as follows: 2x8 - 2 rows staggered at 0-3-0 oc.

Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.

- 2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- 3) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone; end vertical left exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 4) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
- 5) All plates are MT20 plates unless otherwise indicated.
- 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 3073 lb uplift at joint G and 5060 lb uplift
- 9) This truss is designed in accordance with the 2009 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
- 11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 2031 lb down and 4132 lb up at 4-6-4, 1397 lb down and 1093 lb up at 6-5-8, and 1486 lb down and 1073 lb up at 8-5-8, and 1470 lb down and 1045 lb up at 10-5-8 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

November 3,2016

Continued on page 2



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 BEFORE USE



| Job | Truss | Truss Type | Qty | Ply | H&H-NC/Jessamine/Master |
|---|-------|---------------|-----|-----|--|
| 812025_MASTER | C24 | Common Girder | 1 | 2 | Job Reference (optional) |
| Buildors FirstSource Binay Flats TN 27696 | | | | | 7.640 c Oct. 7.2015 MiTok Industries, Inc., Thu Nov.02.11:29:04.2016, Page 2 |

ID:iAmMffg3tW0ghNx_OkVH7Bz_9Ds-Z7qqgVaGeCOcLGLLp2KrlveXo6hRQplvsIGi_uyMx7v

LOAD CASE(S) Standard

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

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 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. Applicability of design parameters and proper incorporation of component is responsibility of building designer - not truss engineer/designer. Bracing shown is for lateral support of individual web members only. Additional temporary bracing to insure stability during construction is the responsibility of the erector. Additional permanent bracing of the overall structure is the responsibility of the building designer. For general guidance regarding fabrication, quality control, storage, delivery, erection and bracing, consult ANSI/TPI1 Quality Criteria, DSB-89 and BCSI1 Building Component Safety Information available from Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719.

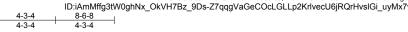
MOTLEY STRUCTURAL DESIGN

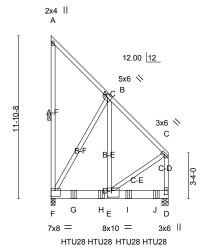
PO Box 3850 Sumter SC 29151

Job Truss Truss Type Qty H&H-NC/Jessamine/Master Ply 812025 MASTER C25 Roof Special Girder

Builders FirstSource, Piney Flats, TN 37686

2 Job Reference (optional)
7.640 s Oct 7 2015 MiTek Industries, Inc. Thu Nov 03 11:28:04 2016 Page 1 $ID:iAmMffg3tW0ghNx_OkVH7Bz_9Ds-Z7qqgVaGeCOcLGLLp2KrlvecU6jRQrHvslGi_uyMx7v\\$





8-6-8

| Plate Olise | els (X, Y) | [D.U-3-12,U-1-8], [E.U-3-8,U-6-0], [F.E0 | ge,u-b-6] | |
|-------------|------------|--|------------|--|
| LOADING | i (psf) | SPACING- 2-0-0 | CSI. | DEFL. in (loc) I/defl L/d PLATES GRIP |
| TCLL | 20.0 | Plate Grip DOL 1.15 | TC 0.34 | Vert(LL) -0.02 D-E >999 360 MT20 244/190 |
| TCDL | 10.0 | Lumber DOL 1.15 | BC 0.26 | Vert(TL) -0.05 D-E >999 240 |
| BCLL | 0.0 * | Rep Stress Incr NO | WB 0.63 | Horz(TL) 0.00 D n/a n/a |
| BCDL | 10.0 | Code IRC2009/TPI2007 | (Matrix-M) | Wind(LL) 0.04 D-E >999 240 Weight: 186 lb FT = 20% |

BRACING-

TOP CHORD

BOT CHORD

WEBS

end verticals.

1 Row at midpt

LUMBER-

Dieta Officata (V.V.)

TOP CHORD 2x4 SP No.2 2x8 SP DSS

BOT CHORD WFBS 2x4 SP No 2

REACTIONS. (lb/size) D=3993/0-5-8 (min. 0-2-6), F=3349/0-3-8 (min. 0-2-0)

Max Horz F=-847(LC 7)

Max Uplift D=-2495(LC 5), F=-3004(LC 7)

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

[D₁O₂ 2 2 2 0 4 0] [E₁O₂ 2 0 0 0 0] [E₁E₄= 0 E 0]

TOP CHORD A-F=-99/263, B-C=-1899/1135, C-D=-2291/1360 **BOT CHORD** F-G=-924/1289, G-H=-924/1289, E-H=-924/1289 **WEBS** B-F=-2555/2370, B-E=-2456/3209, C-E=-1033/1531

NOTES-

- 1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
 - Top chords connected as follows: 2x4 1 row at 0-9-0 oc.
 - Bottom chords connected as follows: 2x8 2 rows staggered at 0-6-0 oc.
- Webs connected as follows: 2x4 1 row at 0-9-0 oc.
- 2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- 3) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone; end vertical right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 4) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 2495 lb uplift at joint D and 3004 lb uplift at joint F.
- 8) This truss is designed in accordance with the 2009 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 9) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss
- 10) Use Simpson Strong-Tie HTU28 (26-10d Girder, 14-10dx1 1/2 Truss, Single Ply Girder) or equivalent spaced at 2-0-0 oc max. starting at 1-8-0 from the left end to 7-8-0 to connect truss(es) A05 (1 ply 2x6 SP) to back face of bottom chord.
- 11) Fill all nail holes where hanger is in contact with lumber.

LOAD CASE(S) Standard

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

Vert: A-C=-60, D-F=-20



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

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

A-F

November 3,2016

Scale = 1:84.0

Continued on page 2



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

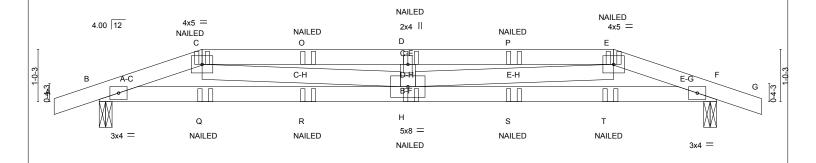


| Job | Truss | Truss Type | Qty | Ply | H&H-NC/Jessamine/Master | | | | |
|---|--------|---------------------|----------|---|--------------------------|--|--|--|--|
| 812025_MASTER | C25 | Roof Special Girder | 1 | 2 | Job Reference (optional) | | | | |
| Builders FirstSource, Piney Flats, TN 37686 7.640 s Oct 7 2015 MiTek Industries, Inc. Thu Nov 03 11:28:04 2016 Page 2 | | | | | | | | | |
| | ID:iAm | Mffg3tW0 | ghNx_Ok\ | /H7Bz_9Ds-Z7qqgVaGeCOcLGLLp2KrlvecU6jRQrHvslGi_uyMx7v | | | | | |
| | | | | | | | | | |
| LOAD CASE(S) Standard | | | | | | | | | |
| Concentrated Loads (lb) | | | | | | | | | |
| Vert: G=-1670(B) H=-1670(B) I=-1670(B) J=-1672(B) | | | | | | | | | |



Job Truss Truss Type Qty H&H-NC/Jessamine/Master 812025 MASTER CP01 Hip Girder Job Reference (optional)
7.640 s Oct 7 2015 MiTek Industries, Inc. Thu Nov 03 11:28:05 2016 Page 1 Builders FirstSource, Piney Flats, TN 37686 ID:iAmMffg3tW0ghNx_OkVH7Bz_9Ds-2JODtrbuPVWTzQwYNlr4l7BilW0p9Mp24P0FWKyMx7u 12-0-0 0-10-8 4-0-0 0-10-8

Scale = 1:22.4



| 0-10-8 | 0-10-8 6-0-0 12-0 | | | 2-0-0 | | | |
|--|--|---|---|---|---|--|--|
| 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 IRC2009/TPI2007 | CSI. TC 0.66 BC 0.44 WB 0.36 (Matrix-M) | DEFL. in Vert(LL) -0.08 Vert(TL) -0.19 Horz(TL) -0.02 Wind(LL) 0.25 | (loc) I/defl L/d H >999 360 H >742 240 F n/a n/a H >566 240 | PLATES GRIP MT20 244/190 Weight: 51 lb FT = 20% | | |

BOT CHORD

except

2-0-0 oc purlins (4-1-2 max.): C-E.

Rigid ceiling directly applied or 5-3-6 oc bracing.

LUMBER-**BRACING-**TOP CHORD

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

2x4 SP No.2 **WEBS**

REACTIONS. (lb/size) B=548/0-3-0 (min. 0-1-8), F=548/0-3-0 (min. 0-1-8)

Max Horz B=40(LC 4)

Max Uplift B=-762(LC 4), F=-762(LC 5)

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

TOP CHORD B-C=-973/1281, C-O=-1762/2373, D-O=-1762/2373, D-P=-1762/2373, E-P=-1762/2373, E-F=-973/1284 **BOT CHORD** B-Q=-1176/908, Q-R=-1176/908, H-R=-1176/908, H-S=-1145/908, S-T=-1145/908, F-T=-1145/908

C-H=-1190/891, D-H=-236/287, E-H=-1192/891 **WEBS**

(13)

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone; end vertical left and right exposed; porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
- 4) Provide adequate drainage to prevent water ponding.
- 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 762 lb uplift at joint B and 762 lb uplift at
- 8) This truss is designed in accordance with the 2009 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 9) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 11) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails. For more details refer to MiTek's ST-TOENAIL Detail.
- 12) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).
- 13) This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

LOAD CASE(S) Standard

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

Vert: A-C=-60, C-E=-60, E-G=-60, I-L=-20

Concentrated Loads (lb)

Vert: H=-6(B) Q=-6(B) R=-6(B) S=-6(B) T=-6(B)



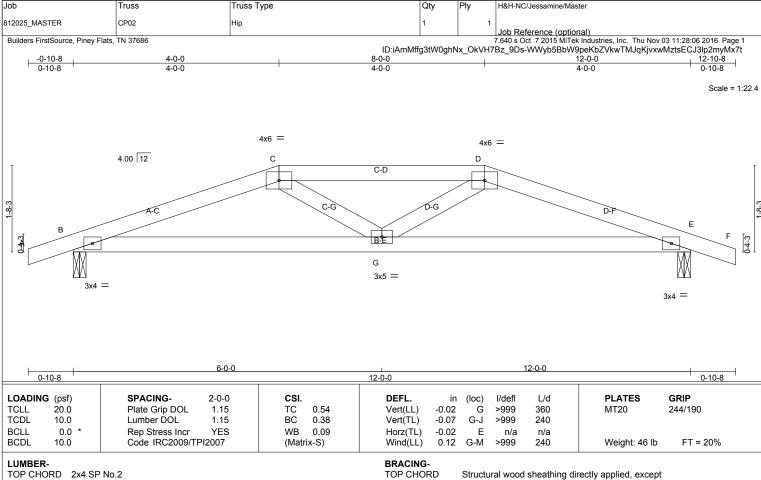
Structural wood sheathing directly applied or 5-10-13 oc purlins,

November 3,2016



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MILEN REFERENCE FAGE MILES COMMON Design valid for use only with MITEK connectors. This design is based only upon parameters shown, and is for an individual building component in the component is responsibility of building designer - not truss engineer/designer. But the component is responsibility of building designer - not truss engineer/designer. But the component is responsibility of building designer. Applicability of design paramenters and proper incorporation of component is responsibility of building designer - not truss engineer/designer. Bracing shown replacements of the state of th





BOT CHORD

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

2x4 SP No.3 WEBS

REACTIONS. (lb/size) B=532/0-3-0 (min. 0-1-8), E=533/0-3-0 (min. 0-1-8)

Max Horz B=59(LC 6)

Max Uplift B=-740(LC 6), E=-740(LC 7)

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

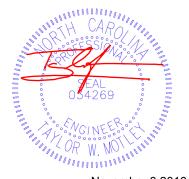
TOP CHORD B-C=-905/2053, C-D=-909/2414, D-E=-905/2052

BOT CHORD B-G=-1834/831, E-G=-1837/831 C-G=-498/195, D-G=-498/195 **WEBS**

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
- 4) Provide adequate drainage to prevent water ponding.
- 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 740 lb uplift at joint B and 740 lb uplift at ioint E.
- 8) This truss is designed in accordance with the 2009 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and ½" gypsum sheetrock be applied directly to the bottom chord.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 11) This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

LOAD CASE(S) Standard



2-0-0 oc purlins (5-10-8 max.): C-D.

Rigid ceiling directly applied.

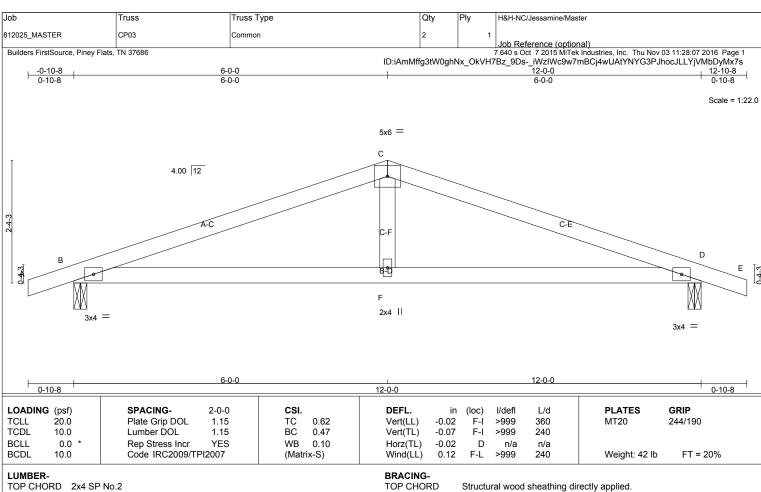
November 3,2016



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 BEFORE USE

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BOT CHORD

Rigid ceiling directly applied.

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

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

(lb/size) B=532/0-3-0 (min. 0-1-8), D=533/0-3-0 (min. 0-1-8) REACTIONS.

Max Horz B=-77(LC 7)

Max Uplift B=-721(LC 8), D=-721(LC 9)

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

TOP CHORD B-C=-781/1856, C-D=-781/1856 **BOT CHORD** B-F=-1611/695, D-F=-1611/695

WEBS C-F=-621/234

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 721 lb uplift at joint B and 721 lb uplift at joint D.
- 7) This truss is designed in accordance with the 2009 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and ½" gypsum sheetrock be applied directly to the bottom chord.
- 9) This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

LOAD CASE(S) Standard



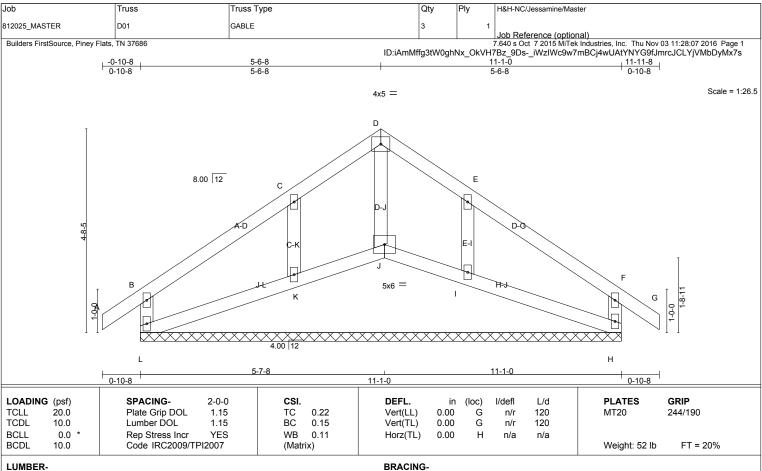
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BOT CHORD

end verticals.

LUMBER-

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

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

REACTIONS. All bearings 11-1-0.

(lb) - Max Horz L=323(LC 7)

Max Uplift All uplift 100 lb or less at joint(s) except L=-273(LC 9), H=-319(LC 9), K=-341(LC 8), I=-335(LC 9) Max Grav All reactions 250 lb or less at joint(s) L, H except J=409(LC 9), K=254(LC 13), I=254(LC 14)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD C-D=-86/429, D-E=-85/444, E-F=-97/257, B-L=-187/373, F-H=-186/382

WEBS D-J=-378/10, C-K=-185/361, E-I=-186/358

NOTES-(15)

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) zone; 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) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
- 5) All plates are 2x4 MT20 unless otherwise indicated.
- 6) Gable requires continuous bottom chord bearing.
- 7) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 8) Gable studs spaced at 2-0-0 oc.
- 9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 10) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 273 lb uplift at joint L, 319 lb uplift at joint H, 341 lb uplift at joint K and 335 lb uplift at joint I.
- 12) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) J, K, I.
- 13) This truss is designed in accordance with the 2009 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 14) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
- 15) This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

LOAD CASE(S) Standard



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

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

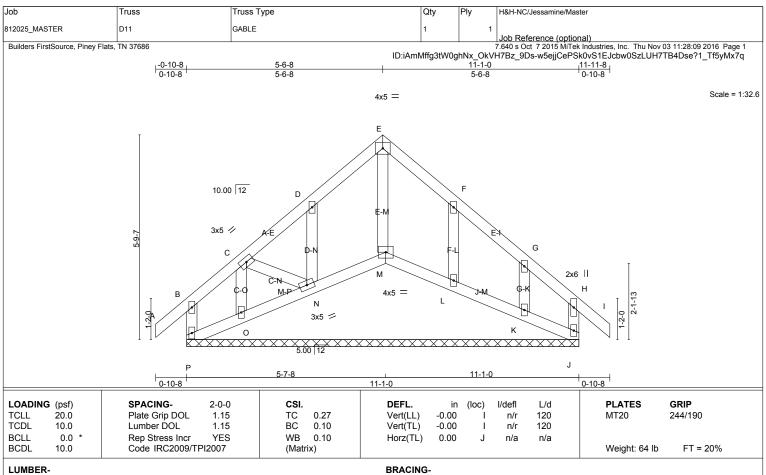
November 3,2016



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BOT CHORD

end verticals.

LUMBER-

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

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

REACTIONS. All bearings 11-1-0

(lb) - Max Horz P=402(LC 7)

Max Uplift All uplift 100 lb or less at joint(s) M except P=-241(LC 9), J=-207(LC 9), N=-405(LC 8), O=-202(LC 6),

L=-246(LC 9), K=-262(LC 9)

Max Grav All reactions 250 lb or less at joint(s) P, J, O, L, K except M=568(LC 9), N=289(LC 6)

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

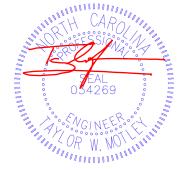
TOP CHORD C-D=-214/344, D-E=-79/443, E-F=-37/435, B-P=-103/274

O-P=-364/401, N-O=-358/397 **BOT CHORD**

WEBS E-M=-426/78, D-N=-135/289, F-L=-135/286, G-K=-88/257, C-N=-272/319

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) zone; 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) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
- 5) All plates are 2x4 MT20 unless otherwise indicated.
- 6) Gable requires continuous bottom chord bearing.
- 7) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 8) Gable studs spaced at 2-0-0 oc.
- 9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 10) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) M except (jt=lb) P=241, J=207, N=405, O=202, L=246, K=262.
- 12) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) M, N, O, L, K.
- 13) This truss is designed in accordance with the 2009 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 14) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.

LOAD CASE(S) Standard



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

Rigid ceiling directly applied or 6-0-0 oc bracing.

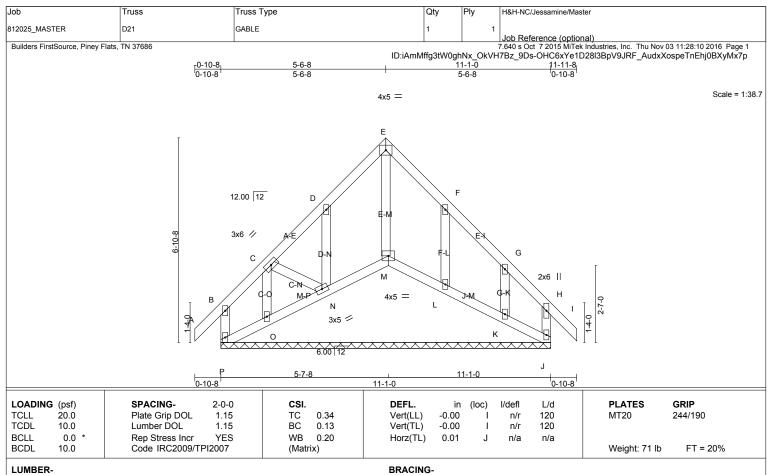
November 3,2016



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BOT CHORD

end verticals.

LUMBER-

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

2x4 SP No.3 **WEBS** 2x4 SP No.3 OTHERS

REACTIONS. All bearings 11-1-0

(lb) - Max Horz P=481(LC 7)

Max Uplift All uplift 100 lb or less at joint(s) except P=-315(LC 9), M=-118(LC 7), J=-226(LC 9), N=-547(LC 7),

O=-331(LC 6), L=-290(LC 9), K=-341(LC 9)

Max Grav All reactions 250 lb or less at joint(s) P, J, L, K except M=861(LC 9), N=390(LC 6), O=334(LC 7)

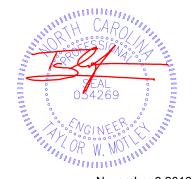
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown TOP CHORD C-D=-276/450, D-E=-100/583, E-F=-42/568, F-G=-32/317, B-P=-103/329

O-P=-460/500, N-O=-451/493 **BOT CHORD**

E-M=-673/100, D-N=-135/340, C-O=-335/368, F-L=-135/336, G-K=-87/317, C-N=-341/401 **WEBS**

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) zone; 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) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
- 5) All plates are 2x4 MT20 unless otherwise indicated.
- 6) Gable requires continuous bottom chord bearing.
- 7) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 8) Gable studs spaced at 2-0-0 oc.
- 9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 10) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 315 lb uplift at joint P, 118 lb uplift at joint M, 226 lb uplift at joint J, 547 lb uplift at joint N, 331 lb uplift at joint O, 290 lb uplift at joint L and 341 lb uplift at joint K.
- 12) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) M, N, O, L, K.
- 13) This truss is designed in accordance with the 2009 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 14) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.

LOAD CASE(S) Standard



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

Rigid ceiling directly applied or 6-0-0 oc bracing.

November 3,2016



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Job Truss Truss Type Qty H&H-NC/Jessamine/Master 812025 MASTER E01 GABLE 5 Job Reference (optional)
7.640 s Oct 7 2015 MiTek Industries, Inc. Thu Nov 03 11:28:11 2016 Page 1 Builders FirstSource, Piney Flats, TN 37686 ID:iAmMffg3tW0ghNx_OkVH7Bz_9Ds-sTIU8uff_LGchLNij0yUXORghx3fY6WxTLTak_yMx7o 14-7-0 Scale = 1:46.4 4x5 || 6.00 12 3x6 = G 3x5 / D C 0-10-0 3x8 MT20HS II R Q Р 0 Ν Μ 4x5 =

| Plate Offsets (X,Y) | [B:0-5-5,0-1-13], [L:Edge,0-2-0] | | 177.0 | |
|--|---|---------------------------------------|---|---|
| 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 IRC2009/TPI2007 | CSI. TC 0.86 BC 0.42 WB 0.15 (Matrix) | DEFL. in (loc) l/defl L/d Vert(LL) 0.00 A n/r 120 Vert(TL) 0.00 A n/r 120 Horz(TL) 0.01 L n/a n/a | PLATES GRIP MT20 244/190 MT20HS 187/143 Weight: 100 lb FT = 20% |

14-7-0

14-7-0

LUMBER-**BRACING-**

0-10-8

TOP CHORD 2x4 SP No.2 TOP CHORD Structural wood sheathing directly applied or 5-2-12 oc purlins, **BOT CHORD** 2x4 SP No.2 except end verticals 2x4 SP No.2 **BOT CHORD** WFBS Rigid ceiling directly applied or 10-0-0 oc bracing.

2x4 SP No.3 OTHERS WEBS 1 Row at midpt SLIDER Left 2x6 SP No.2 2-0-0

REACTIONS. All bearings 14-7-0.

(lb) - Max Horz B=683(LC 7)

Max Uplift All uplift 100 lb or less at joint(s) B except L=-107(LC 7), M=-184(LC 8), N=-163(LC 8), O=-171(LC 8),

P=-174(LC 8), Q=-144(LC 8), R=-319(LC 8)

Max Grav All reactions 250 lb or less at joint(s) L, M, N, O, P, Q, R except B=304(LC 7)

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

TOP CHORD B-C=-1068/0, C-D=-1033/35, D-E=-802/47, E-F=-709/76, F-G=-592/99, G-H=-582/105, H-I=-478/132, I-J=-374/195

B-R=-182/304, Q-R=-182/304, P-Q=-182/304, O-P=-182/304, N-O=-182/304, M-N=-182/304, M-N=-182/304, N-O=-182/304, N-O=-182/304, M-N=-182/304, N-O=-182/304, N-O=-182/304, M-N=-182/304, M-**BOT CHORD**

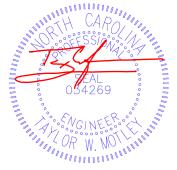
I-M=-182/304

WEBS J-M=-125/338, I-N=-120/262, D-R=-142/504

NOTES-(13)

- 1) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) zone; 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) 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.
- 3) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
- 4) All plates are MT20 plates unless otherwise indicated. 5) All plates are 2x4 MT20 unless otherwise indicated.
- 6) Gable requires continuous bottom chord bearing.
- 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.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) B except (jt=lb) L=107, M=184, N=163, O=171, P=174, Q=144, R=319.
- 11) This truss is designed in accordance with the 2009 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 12) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
- 13) This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

LOAD CASE(S) Standard



K-L

November 3,2016



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ANSITTP1 Quality Criteria, DSB-89 and BCSI1 Building Component

Safety Information available from Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719.



Job Truss Truss Type Qty H&H-NC/Jessamine/Master 812025 MASTER E02 Monopitch 15 Job Reference (optional)
7.640 s Oct 7 2015 MiTek Industries, Inc. Thu Nov 03 11:28:11 2016 Page 1 Builders FirstSource, Piney Flats, TN 37686 ID:iAmMffg3tW0ghNx_OkVH7Bz_9Ds-sTIU8uff_LGchLNij0yUXORhXx2eYxixTLTak_yMx7o Scale = 1:46.1 3x4 || Ε 6.00 12 5x10 MT20HS / D 4x5 / С G 6x8 = 2x4 || 5x6 ||

Plate Offsets (X,Y)-- [B:0-4-1,0-0-5], [D:0-5-0,0-3-4]

| LOADIN | IG (psf) | SPACING- 2-0-0 | CSI. | DEFL. | n (loc) | I/defl | L/d | PLATES | GRIP |
|--------|----------|----------------------|------------|---------------|------------|--------|-----|---------------|----------|
| TCLL | 20.0 | Plate Grip DOL 1.15 | TC 0.80 | Vert(LL) -0.0 | F-G | >999 | 360 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL 1.15 | BC 0.48 | Vert(TL) -0.1 | F-G | >999 | 240 | MT20HS | 187/143 |
| BCLL | 0.0 * | Rep Stress Incr YES | WB 0.84 | Horz(TL) -0.0 | 1 В | n/a | n/a | | |
| BCDL | 10.0 | Code IRC2009/TPI2007 | (Matrix-S) | Wind(LL) 0.1 | G-J | >999 | 240 | Weight: 81 lb | FT = 20% |

14-7-0

BRACING-

TOP CHORD

BOT CHORD

WFBS

14-7-0

Rigid ceiling directly applied.

1 Row at midpt

Structural wood sheathing directly applied, except end verticals.

LUMBER-

TOP CHORD 2x4 SP No.2 2x4 SP No.2 **BOT CHORD** 2x4 SP No.3 WFBS

SLIDER Left 2x6 SP No.2 2-0-0

REACTIONS. (lb/size) B=632/0-5-8 (min. 0-1-8), F=576/Mechanical

Max Horz B=681(LC 8)

Max Uplift B=-372(LC 8), F=-632(LC 8)

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

0-10-8

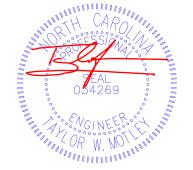
TOP CHORD B-C=-360/0, C-D=-566/308, E-F=-169/316

BOT CHORD B-G=-813/580, F-G=-813/579 D-G=0/313, D-F=-661/935 **WEBS**

NOTES-(10)

- 1) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) zone; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate
- 2) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
- 3) All plates are MT20 plates 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.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) B=372, F=632
- 8) This truss is designed in accordance with the 2009 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and ½" gypsum sheetrock be applied directly to the bottom chord.
- 10) This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

LOAD CASE(S) Standard

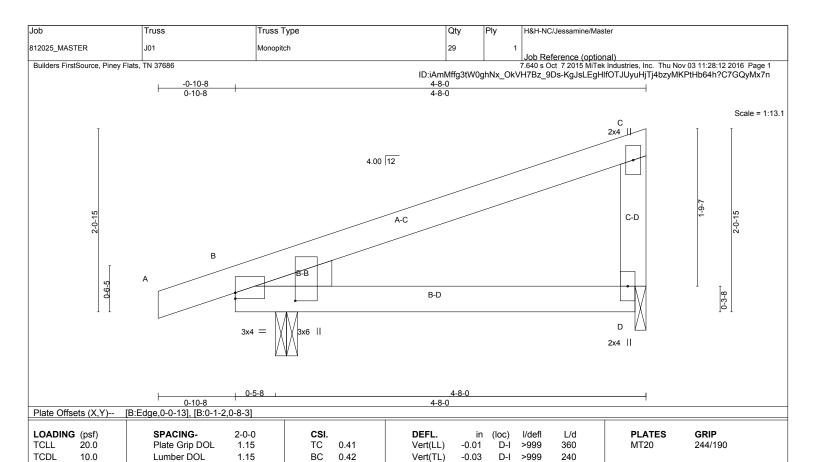












Wind(LL)

BRACING-

TOP CHORD

BOT CHORD

-0.01

0.07

В

D-I >795

n/a

Rigid ceiling directly applied.

n/a

240

Weight: 19 lb

Structural wood sheathing directly applied, except end verticals.

FT = 20%

LUMBER-

BCLL

BCDL

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

0.0

10.0

WEDGE

Left: 2x4 SP No.3

REACTIONS. (lb/size) B=265/0-3-0 (min. 0-1-8), D=149/0-1-8 (min. 0-1-8)

Rep Stress Incr

Code IRC2009/TPI2007

Max Horz B=166(LC 6)

Max Uplift B=-362(LC 6), D=-232(LC 6)

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

TOP CHORD C-D=-101/259

NOTES- (10)

1) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) zone; cantilever left exposed; end vertical left exposed; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

WB

(Matrix-S)

0.00

- 2) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

YES

- 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) Bearing at joint(s) D considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 6) Provide mechanical connection (by others) of truss to bearing plate at joint(s) D.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) B=362, D=232.
- 8) This truss is designed in accordance with the 2009 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and ½" gypsum sheetrock be applied directly to the bottom chord.
- 10) This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

LOAD CASE(S) Standard



November 3,2016

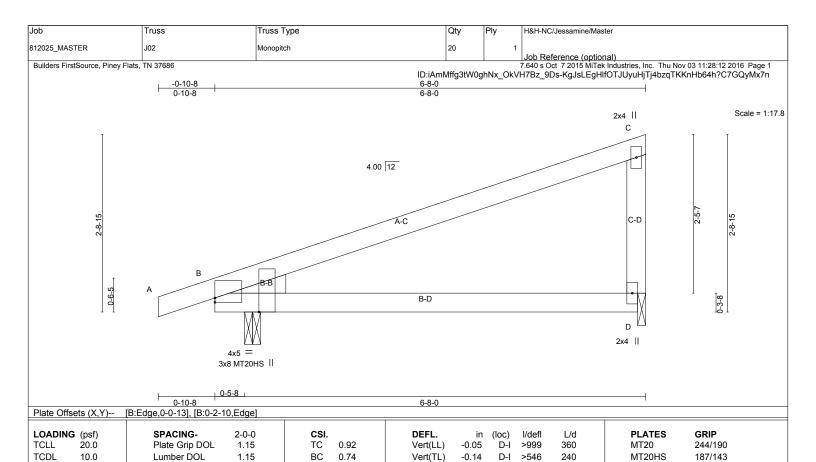


WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 BEFORE USE.

Design valid for use only with MiTek connectors. This design is based only upon parameters shown, and is for an individual building component. Applicability of design paramenters and proper incorporation of component is responsibility of building designer - not truss engineer/designer. Bracing shown is for lateral support of individual web members only. Additional temporary bracing to insure shalling during construction is the responsibility of the erector. Additional permanent bracing of the overall structure is the responsibility of the building designer. For general guidance regarding fabrication, quality control, storage, delivery, erection and bracing, consult

ANSITPH Quality Criteria, DSB-89 and BCSI1 Building Component Safety Information available from Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719.





Wind(LL)

BRACING-

TOP CHORD

BOT CHORD

-0.04

0.31

В

D-I >256

n/a

Rigid ceiling directly applied.

n/a

240

Weight: 26 lb

Structural wood sheathing directly applied, except end verticals.

FT = 20%

LUMBER-

BCLL

BCDL

TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.1 WFBS 2x4 SP No 3

0.0

10.0

WEDGE

Left: 2x4 SP No.3

REACTIONS. (lb/size) B=341/0-3-0 (min. 0-1-8), D=233/0-1-8 (min. 0-1-8)

Rep Stress Incr

Code IRC2009/TPI2007

Max Horz B=224(LC 6)

Max Uplift B=-455(LC 6), D=-359(LC 6)

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

TOP CHORD C-D=-158/374

NOTES-(11)

1) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) zone; cantilever left exposed; end vertical left exposed; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

WB

(Matrix-S)

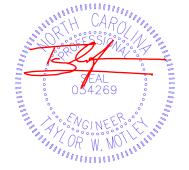
0.00

- 2) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
- 3) All plates are MT20 plates unless otherwise indicated.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

YES

- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Bearing at joint(s) D considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 7) Provide mechanical connection (by others) of truss to bearing plate at joint(s) D.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) B=455, D=359.
- 9) This truss is designed in accordance with the 2009 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and ½" gypsum sheetrock be applied directly to the bottom chord.
- 11) This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

LOAD CASE(S) Standard



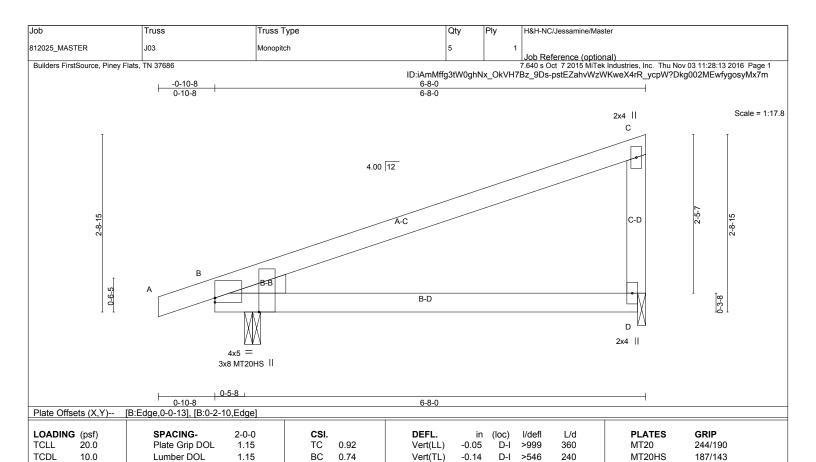
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WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED WITER REFERENCE FOR SINCE AND SINCE Applicability of design paramenters and proper incorporation of component is responsibility of building designer - not truss engineer/designer. Bracing shown replacements of the state of th





Wind(LL)

BRACING-

TOP CHORD

BOT CHORD

-0.04

0.31

В

D-I >256

n/a

Rigid ceiling directly applied.

n/a

240

Weight: 26 lb

Structural wood sheathing directly applied, except end verticals.

FT = 20%

LUMBER-

BCLL

BCDL

TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.1 2x4 SP No.3 WFBS

0.0

10.0

WEDGE

Left: 2x4 SP No.3

REACTIONS. (lb/size) B=341/0-3-0 (min. 0-1-8), D=233/0-1-8 (min. 0-1-8)

Rep Stress Incr

Code IRC2009/TPI2007

Max Horz B=224(LC 6)

Max Uplift B=-455(LC 6), D=-359(LC 6)

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

TOP CHORD C-D=-158/374

NOTES-(11)

1) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) zone; cantilever left exposed; end vertical left exposed; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

WB

(Matrix-S)

0.00

- 2) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
- 3) All plates are MT20 plates unless otherwise indicated.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

YES

- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Bearing at joint(s) D considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 7) Provide mechanical connection (by others) of truss to bearing plate at joint(s) D.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) B=455, D=359.
- 9) This truss is designed in accordance with the 2009 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and ½" gypsum sheetrock be applied directly to the bottom chord.
- 11) This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

LOAD CASE(S) Standard



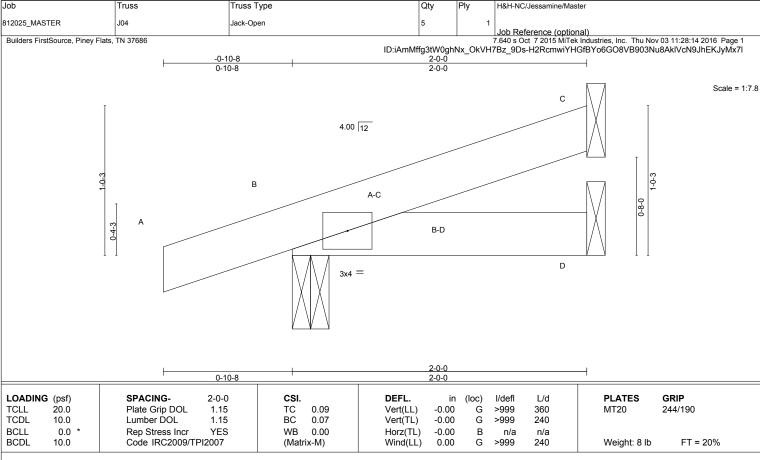
November 3,2016





WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED WITER REFERENCE FOR SINCE AND SINCE Applicability of design paramenters and proper incorporation of component is responsibility of building designer - not truss engineer/designer. Bracing shown replacements of the state of th





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

TOP CHORD Structural wood sheathing directly applied or 2-0-0 oc purlins. **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(lb/size) C=42/Mechanical, B=146/0-3-0 (min. 0-1-8), D=23/Mechanical

Max Horz B=93(LC 6)

Max Uplift C=-61(LC 6), B=-217(LC 6), D=-37(LC 6) Max Grav C=42(LC 1), B=146(LC 1), D=31(LC 3)

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

- 1) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) zone; end vertical left exposed; porch left 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 basic load combinations, which include cases with reductions for multiple concurrent live loads.
- 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) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) C, D except (jt=lb) B=217.
- 7) This truss is designed in accordance with the 2009 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 8) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
- 9) This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

LOAD CASE(S) Standard



November 3,2016

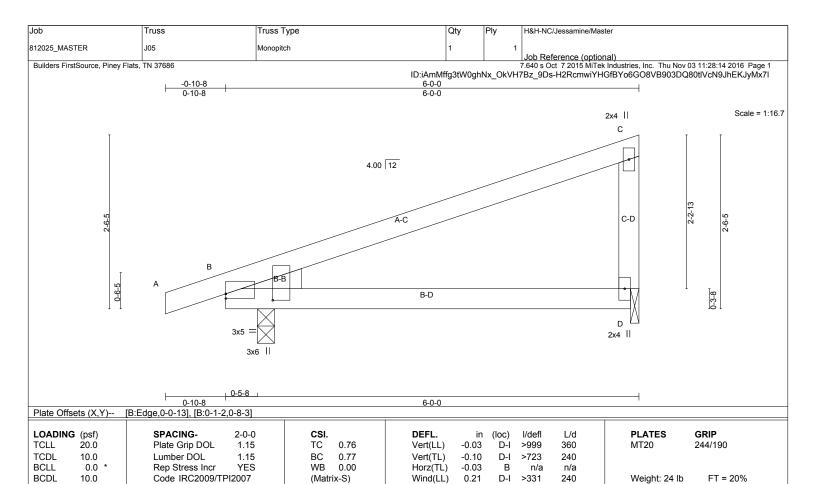


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BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SP No.2 2x4 SP No.2 **BOT CHORD** WFBS 2x4 SP No 3

WEDGE

Left: 2x4 SP No.3

REACTIONS. (lb/size) B=315/0-3-0 (min. 0-1-8), D=206/0-1-8 (min. 0-1-8)

Max Horz B=205(LC 6)

Max Uplift B=-424(LC 6), D=-317(LC 6)

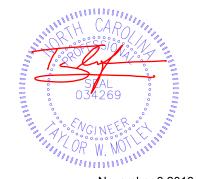
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD C-D=-141/345

NOTES-

- 1) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) zone; cantilever left exposed; end vertical left exposed; porch left 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 basic load combinations, which include cases with reductions for multiple concurrent live loads.
- 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) Bearing at joint(s) D considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 6) Provide mechanical connection (by others) of truss to bearing plate at joint(s) D.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) B=424. D=317.
- 8) This truss is designed in accordance with the 2009 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and ½" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard



Structural wood sheathing directly applied, except end verticals.

Rigid ceiling directly applied.

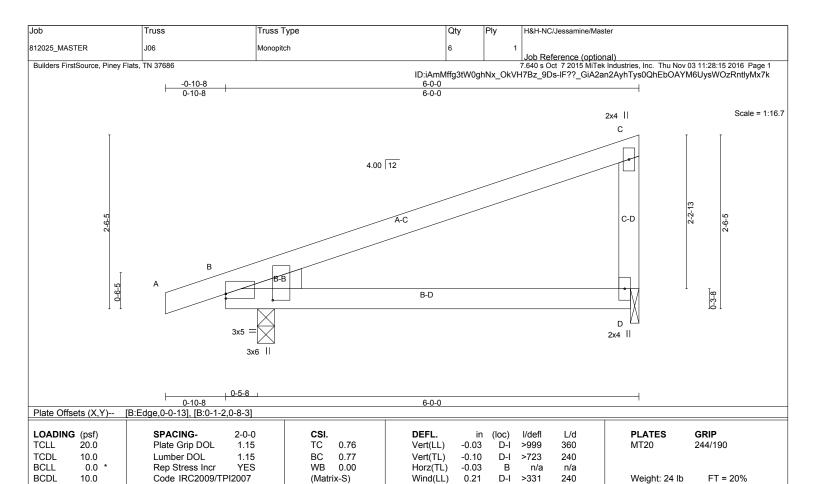
November 3,2016



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BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

WFBS 2x4 SP No 3 WEDGE

Left: 2x4 SP No.3

REACTIONS. (lb/size) B=315/0-3-0 (min. 0-1-8), D=206/0-1-8 (min. 0-1-8)

Max Horz B=205(LC 6)

Max Uplift B=-424(LC 6), D=-317(LC 6)

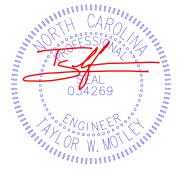
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD C-D=-141/345

NOTES-

- 1) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) zone; cantilever left exposed; end vertical left exposed; porch left 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 basic load combinations, which include cases with reductions for multiple concurrent live loads.
- 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) Bearing at joint(s) D considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 6) Provide mechanical connection (by others) of truss to bearing plate at joint(s) D.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) B=424. D=317.
- 8) This truss is designed in accordance with the 2009 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and ½" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard



Structural wood sheathing directly applied, except end verticals.

Rigid ceiling directly applied.

November 3,2016

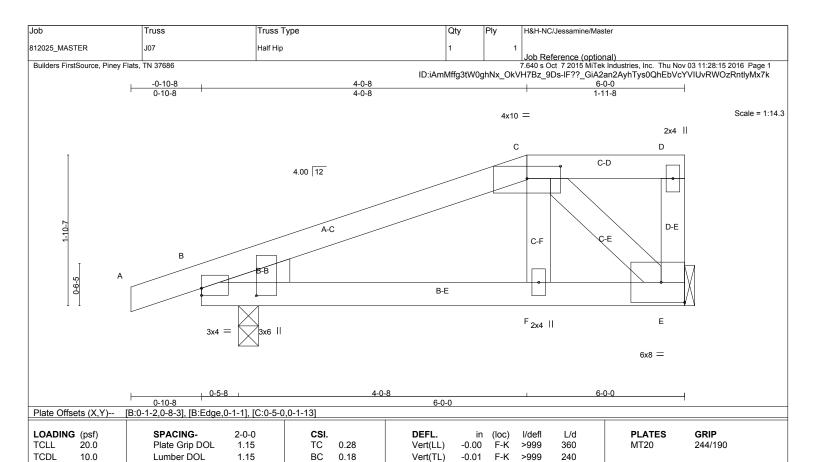


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Wind(LL)

BRACING-

TOP CHORD

BOT CHORD

-0.00

0.02

В

F-K

n/a

>999

2-0-0 oc purlins: C-D.

Rigid ceiling directly applied.

n/a

240

Weight: 28 lb

Structural wood sheathing directly applied, except end verticals, and

FT = 20%

LUMBER-

BCLL

BCDL

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

0.0

10.0

WFBS 2x4 SP No 3 WEDGE

Left: 2x4 SP No.3

REACTIONS. (lb/size) E=206/Mechanical, B=315/0-3-0 (min. 0-1-8)

Rep Stress Incr

Code IRC2009/TPI2007

YES

Max Horz B=153(LC 6)

Max Uplift E=-299(LC 6), B=-442(LC 6)

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

TOP CHORD B-C=-203/490

B-F=-522/162, E-F=-555/169 **BOT CHORD WEBS** C-F=-365/122, C-E=-224/737

NOTES-

1) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) zone; cantilever left exposed; end vertical left exposed; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

WB

(Matrix-S)

0.22

- 2) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) E=299, B=442.
- 8) This truss is designed in accordance with the 2009 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and ½" gypsum sheetrock be applied directly to the bottom chord.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



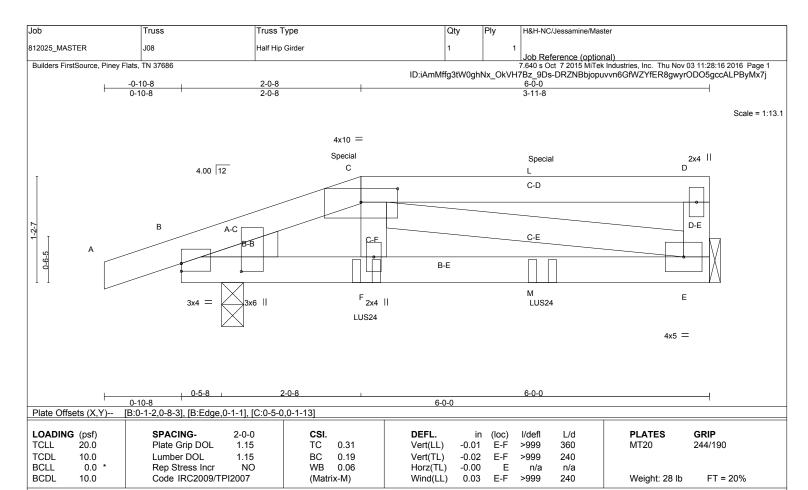
November 3,2016



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BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

WEBS 2x4 SP No.2 WEDGE

Left: 2x4 SP No.3

REACTIONS. (lb/size) E=203/Mechanical, B=312/0-3-0 (min. 0-1-8)

Max Horz B=95(LC 4)

Max Uplift E=-289(LC 4), B=-458(LC 4)

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

TOP CHORD B-C=-259/369

BOT CHORD B-F=-344/225, F-M=-357/237, E-M=-357/237

WEBS C-E=-244/367

NOTES

- 1) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone; cantilever left exposed; end vertical left exposed; porch left exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) E=289. B=458.
- 8) This truss is designed in accordance with the 2009 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 9) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

 11) Use Simpson Strong-Tie LUS24 (4-10d Girder, 2-10d Truss, Single Ply Girder) or equivalent spaced at 2-0-0 oc max. starting at
- 2-1-4 from the left end to 4-1-4 to connect truss(es) J09 (1 ply 2x4 SP) to front face of bottom chord.
- 12) Fill all nail holes where hanger is in contact with lumber.
- 13) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 3 lb down and 2 lb up at 2-0-8, and 3 lb down and 2 lb up at 4-1-4 on top chord. The design/selection of such connection device(s) is the responsibility of others.
- 14) 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 + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15

CARO WESSIONAL MARINE 054269

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

end verticals, and 2-0-0 oc purlins: C-D.

Rigid ceiling directly applied or 9-7-8 oc bracing.

November 3,2016

Continued on page 2



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ANSITPH Quality Criteria, DSB-89 and BCSI1 Building Component Safety Information available from Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719.



Job Truss Truss Type Qty Ply H&H-NC/Jessamine/Master 812025_MASTER J08 Half Hip Girder

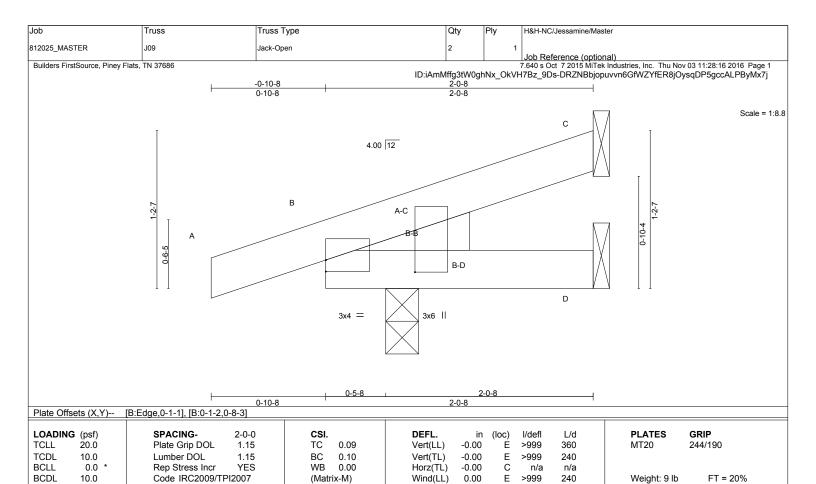
Builders FirstSource, Piney Flats, TN 37686

Job Reference (optional)
7.640 s Oct 7 2015 MiTek Industries, Inc. Thu Nov 03 11:28:16 2016 Page 2
ID:iAmMffg3tW0ghNx_OkVH7Bz_9Ds-DRZNBbjopuvvn6GfWZYfER8gwyrODO5gccALPByMx7j

LOAD CASE(S) Standard Uniform Loads (plf)
Vert: A-C=-60, C-D=-60, E-G=-20 Concentrated Loads (Ib) Vert: F=3(F) M=3(F)







BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SP No.2

WEDGE Left: 2x4 SP No.3

BOT CHORD 2x4 SP No.2

REACTIONS. (lb/size) C=19/Mechanical, D=5/Mechanical, B=186/0-3-0 (min. 0-1-8)

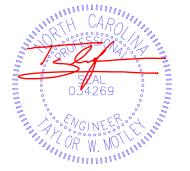
Max Horz B=93(LC 6)

Max Uplift C=-31(LC 9), D=-24(LC 9), B=-272(LC 6) Max Grav C=19(LC 1), D=19(LC 3), B=186(LC 1)

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

- 1) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) zone; cantilever left exposed; end vertical left exposed; porch left 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 basic load combinations, which include cases with reductions for multiple concurrent live loads.
- 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) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) C, D except (jt=lb)
- 7) This truss is designed in accordance with the 2009 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 8) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.

LOAD CASE(S) Standard



Structural wood sheathing directly applied or 2-0-8 oc purlins.

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

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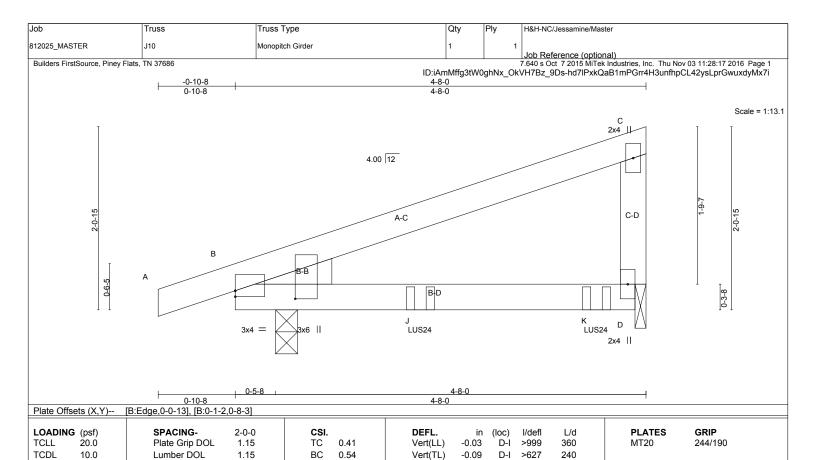


WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 BEFORE USE.

Design valid for use only with MiTek connectors. This design is based only upon parameters shown, and is for an individual building component

Applicability of design paramenters and proper incorporation of component is responsibility of building designer - not truss engineer/designer. Bracing shown replacements of the state of th





Wind(LL)

BRACING-

TOP CHORD

BOT CHORD

-0.02

0.11

В

D-I >488

end verticals.

n/a

n/a

240

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

Weight: 19 lb

Structural wood sheathing directly applied or 4-8-0 oc purlins, except

FT = 20%

LUMBER-

BCLL

BCDL

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

0.0

10.0

WFBS 2x4 SP No 2 WEDGE

Left: 2x4 SP No.3

REACTIONS. (lb/size) B=394/0-3-0 (min. 0-1-8), D=395/0-1-8 (min. 0-1-8)

Rep Stress Incr

Code IRC2009/TPI2007

Max Horz B=164(LC 5)

Max Uplift B=-471(LC 4), D=-519(LC 6)

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

1) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60

WB

(Matrix-M)

0.00

- 2) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

NO

- 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) Bearing at joint(s) D considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 6) Provide mechanical connection (by others) of truss to bearing plate at joint(s) D.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) B=471, D=519.
- 8) This truss is designed in accordance with the 2009 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 9) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
- 10) Use Simpson Strong-Tie LUS24 (4-10d Girder, 2-10d Truss, Single Ply Girder) or equivalent spaced at 2-0-0 oc max. starting at 2-1-4 from the left end to 4-1-4 to connect truss(es) J08 (1 ply 2x4 SP), J07 (1 ply 2x4 SP) to back face of bottom chord.
- 11) Fill all nail holes where hanger is in contact with lumber.
- 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 + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: A-C=-60, D-E=-20 Concentrated Loads (lb)

Vert: J=-183(B) K=-191(B)



November 3,2016



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

Applicability of design paramenters and proper incorporation of component is responsibility of building designer - not truss engineer/designer. Bracing shown replacements of the state of th



Job Truss Truss Type Qty H&H-NC/Jessamine/Master 812025 MASTER J201 Jack-Open 14 Job Reference (optional)
7.640 s Oct 7 2015 MiTek Industries, Inc. Thu Nov 03 11:28:18 2016 Page 1 Builders FirstSource, Piney Flats, TN 37686 ID:iAmMffg3tW0ghNx_OkVH7Bz_9Ds-9qh7cHl2LV9d1PQ2d_a7JsDsFIP?hJbz4wgRU4yMx7h -0-10-8 0-10-8 4-4-12 Scale = 1:27.1 10.00 12 1-2-0 D 4x12 || 0-10-8 4-4-12 LOADING (psf) SPACING-2-0-0 CSI. DEFL. in I/defl L/d **PLATES** GRIP (loc) Vert(LL) 244/190 **TCLL** 20.0 Plate Grip DOL 1.15 TC 0.90 -0.01 >999 360 D-E MT20 TCDI 10.0 1 15 BC 0.63 -0.04 D-F 240 Lumber DOL Vert(TL) >999 **BCLL** 0.0 Rep Stress Incr YES WB 0.00 Horz(TL) -0.11 С n/a n/a **BCDL** 10.0 Code IRC2009/TPI2007 (Matrix-S) Wind(LL) 0.08 D-E >661 240 Weight: 18 lb FT = 20% **BRACING-**

TOP CHORD

BOT CHORD

LUMBER-

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

2x4 SP No.3 **WEBS**

REACTIONS. (lb/size) E=236/0-5-8 (min. 0-1-8), C=113/Mechanical, D=47/Mechanical

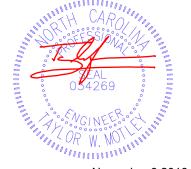
Max Horz E=448(LC 8)

Max Uplift E=-44(LC 8), C=-286(LC 8), D=-45(LC 8) Max Grav E=236(LC 1), C=113(LC 1), D=79(LC 3)

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

- 1) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) zone; end vertical left 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 basic load combinations, which include cases with reductions for multiple concurrent live loads.
- 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) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) E, D except (jt=lb)
- 7) This truss is designed in accordance with the 2009 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and ½" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard



Structural wood sheathing directly applied, except end verticals.

Rigid ceiling directly applied.





Job Truss Truss Type Qty H&H-NC/Jessamine/Master 812025 MASTER J202 Half Hip Job Reference (optional) 7.640 s Oct 7 2015 MiTek Industries, Inc. Thu Nov 03 11:28:18 2016 Page 1 Builders FirstSource, Piney Flats, TN 37686 ID:iAmMffg3tW0ghNx_OkVH7Bz_9Ds-9qh7cHl2LV9d1PQ2d_a7JsDyzlSwhlOz4wgRU4yMx7h -0-10-8 0-10-8 1-2-6 $_{4x5} =_{C}$ Scale = 1:22.0 10.00 12 3x4 || E-G F 2x4 || F

| Plate Offsets (X,Y) | Plate Offsets (X,Y) [C:0-3-4,0-2-0] | | | | | | | |
|--------------------------------------|--|----------------------------------|---|-----------------------------|--|--|--|--|
| LOADING (psf) TCLL 20.0 | SPACING- 2-0-0 Plate Grip DOL 1.15 | CSI. TC 0.53 | DEFL. in (loc) I/defl L/d Vert(LL) -0.02 F-G >999 360 | PLATES GRIP MT20 244/190 | | | | |
| TCDL 10.0 BCLL 0.0 * BCDL 10.0 | Lumber DOL 1.15 Rep Stress Incr YES Code IRC2009/TPI2007 | BC 0.44 WB 0.08 (Matrix-S) | Vert(TL) -0.04 F-G >999 240 Horz(TL) -0.14 D n/a n/a Wind(LL) 0.09 F-G >545 240 | Weight: 22 lb FT = 20% | | | | |

LUMBER-

TOP CHORD 2x4 SP No.2

BOT CHORD 2x4 SP No.2 2x4 SP No.3 WFBS

BRACING-

4-4-12

TOP CHORD Structural wood sheathing directly applied, except end verticals, and

2-0-0 oc purlins: C-D.

BOT CHORD Rigid ceiling directly applied.

REACTIONS. (lb/size) D=65/Mechanical, G=236/0-5-8 (min. 0-1-8), E=95/Mechanical

Max Horz G=370(LC 8)

Max Uplift D=-60(LC 7), G=-115(LC 8), E=-174(LC 8)

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

WEBS

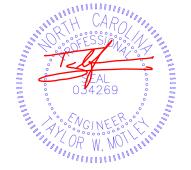
NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) zone; end vertical left 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 basic load combinations, which include cases with reductions for multiple concurrent live loads.

0-10-8

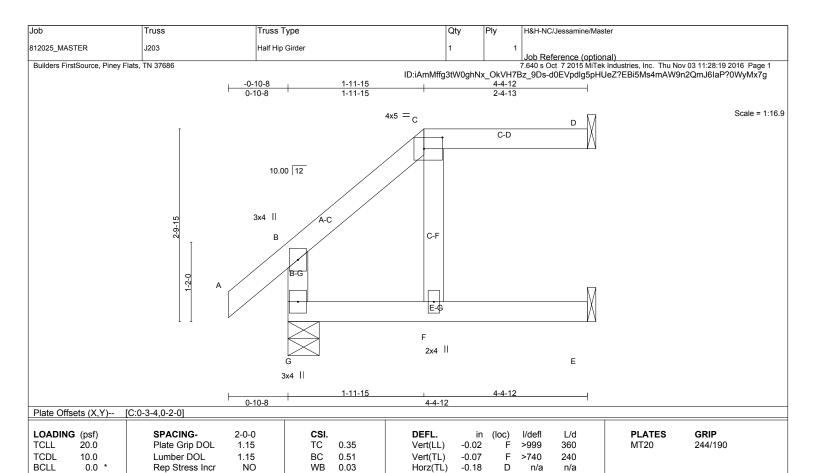
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) D except (jt=lb) G=115, E=174.
- 9) This truss is designed in accordance with the 2009 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and ½" gypsum sheetrock be applied directly to the bottom chord.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard









BCDL

TOP CHORD 2x4 SP No.2

10.0

BOT CHORD 2x4 SP No.2 2x4 SP No.2 WFBS

Wind(LL) BRACING-

TOP CHORD **BOT CHORD**

0.11

Structural wood sheathing directly applied or 4-4-12 oc purlins,

Weight: 20 lb

FT = 20%

except end verticals, and 2-0-0 oc purlins: C-D. Rigid ceiling directly applied or 6-0-0 oc bracing.

240

>441

REACTIONS. (lb/size) D=198/Mechanical, G=289/0-5-8 (min. 0-1-8), E=132/Mechanical

Max Horz G=283(LC 6)

Max Uplift D=-338(LC 7), G=-279(LC 6), E=-144(LC 6) Max Grav D=198(LC 1), G=289(LC 1), E=169(LC 3)

Code IRC2009/TPI2007

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

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone; end vertical left exposed; Lumber DOL=1.60 plate grip DOL=1.60

(Matrix-M)

- 3) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) D=338, G=279, E=144.
- 9) This truss is designed in accordance with the 2009 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 12) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 81 lb down and 198 lb up at 1-11-15, and 84 lb down and 213 lb up at 4-4-0 on top chord, and 57 lb down and 39 lb up at 2-0-11, and 71 lb down and 35 lb up at 4-4-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 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 + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: A-B=-60, B-C=-60, C-D=-60, E-G=-20 Concentrated Loads (lb)

Vert: C=-63(B) D=-84(B) E=-42(B) F=-35(B)



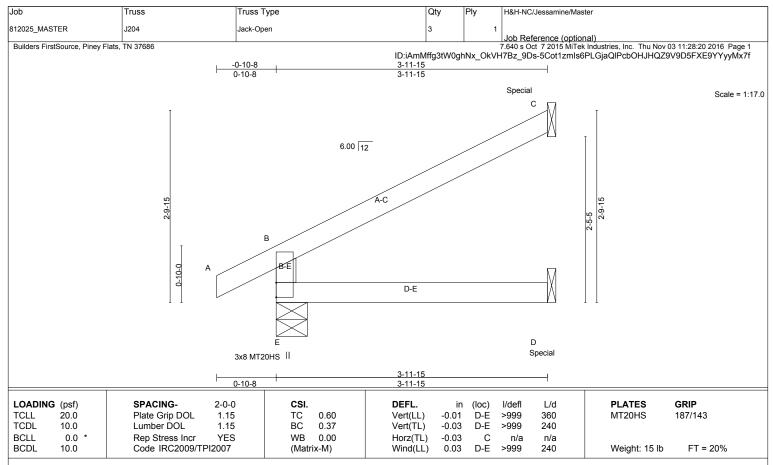
November 3,2016



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

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED WITER REFERENCE FOR SINCE AND SINCE Applicability of design paramenters and proper incorporation of component is responsibility of building designer - not truss engineer/designer. Bracing shown replacements of the state of th





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

BOT CHORD 2x4 SP No.3 WEBS

BRACING-TOP CHORD

Structural wood sheathing directly applied or 3-11-15 oc purlins,

except end verticals.

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

REACTIONS. (lb/size) E=221/0-5-8 (min. 0-1-8), C=123/Mechanical, D=55/Mechanical

Max Horz E=253(LC 8)

Max Uplift E=-171(LC 8), C=-229(LC 8), D=-27(LC 8) Max Grav E=221(LC 1), C=123(LC 1), D=97(LC 3)

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

TOP CHORD B-E=-188/330

NOTES-

- 1) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) zone; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate
- 2) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads
- 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) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) D except (jt=lb) E=171, C=229.
- 7) This truss is designed in accordance with the 2009 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 8) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
- 9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 22 lb down and 119 lb up at 3-11-3 on top chord, and 25 lb down and 17 lb up at 3-11-3 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 10) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: A-B=-60, B-C=-60, D-E=-20

Concentrated Loads (lb)

Vert: C=-22(B) D=-12(B)



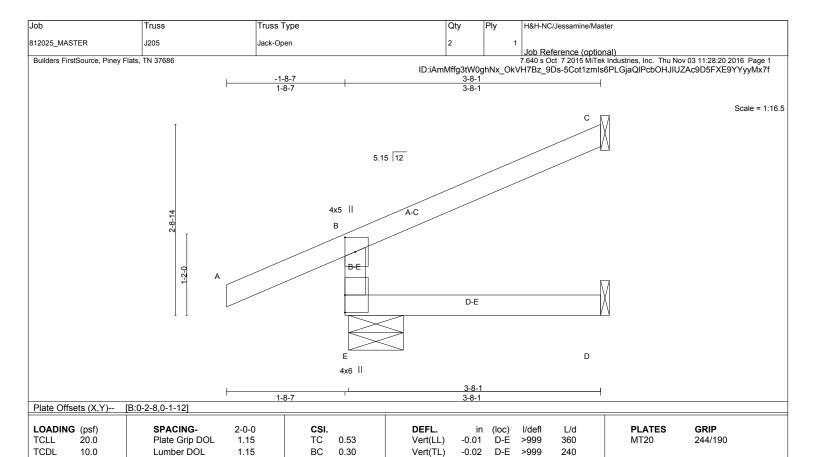
November 3,2016



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 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 Applicability of design paramenters and proper incorporation of component is responsibility of building designer - not truss engineer/designer. Bracing shown replacements of the state of th





BCLL

BCDL

TOP CHORD 2x4 SP No.2

0.0

10.0

BOT CHORD 2x4 SP No.2 2x4 SP No.3 WFBS

Wind(LL) BRACING-

Horz(TL)

-0.03

0.02

TOP CHORD Structural wood sheathing directly applied or 3-8-1 oc purlins, except

Weight: 15 lb

FT = 20%

n/a

240

end verticals.

С

D-E

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

n/a

>999

REACTIONS. (lb/size) E=279/0-9-7 (min. 0-1-8), C=79/Mechanical, D=30/Mechanical

Max Horz E=266(LC 8)

Max Uplift E=-283(LC 8), C=-132(LC 8), D=-6(LC 8) Max Grav E=279(LC 1), C=79(LC 1), D=63(LC 3)

Rep Stress Incr

Code IRC2009/TPI2007

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

YES

TOP CHORD B-E=-240/463

1) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) zone; cantilever left exposed; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

WB

(Matrix-M)

0.00

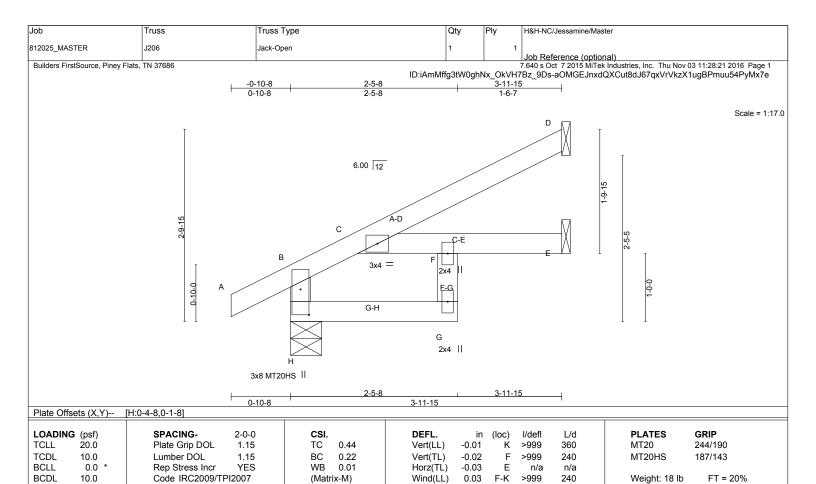
- 2) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 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) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) D except (jt=lb) E=283, C=132.
- 7) This truss is designed in accordance with the 2009 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 8) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.

LOAD CASE(S) Standard









BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SP No.2

BOT CHORD 2x4 SP No.2 2x4 SP No.3 *Except* WFBS

F-G: 2x4 SP No.2

REACTIONS. (lb/size) H=265/0-5-8 (min. 0-1-8), D=78/Mechanical, E=48/Mechanical

Max Horz H=253(LC 8)

Max Uplift H=-195(LC 8), D=-115(LC 8), E=-23(LC 8) Max Grav H=265(LC 1), D=78(LC 1), E=67(LC 3)

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

TOP CHORD B-H=-249/370

- 1) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) zone; end vertical left 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 basic load combinations, which include cases with reductions for multiple concurrent live loads.
- 3) All plates are MT20 plates 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.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) E except (jt=lb) H=195, D=115.
- 8) This truss is designed in accordance with the 2009 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 9) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.

LOAD CASE(S) Standard



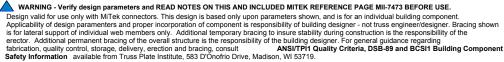
Structural wood sheathing directly applied or 3-11-15 oc purlins,

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

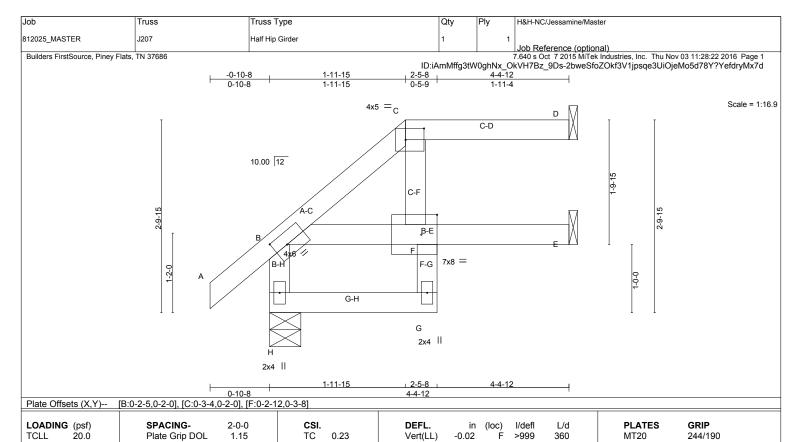
except end verticals











| TCDL | 10.0 | Lumber DOL | • |
|------|-------|-----------------|---|
| BCLL | 0.0 * | Rep Stress Incr | |

 Lumber DOL
 1.15
 BC
 0.55

 Rep Stress Incr
 NO
 WB
 0.03

 Code IRC2009/TPI2007
 (Matrix-M)

Horz(TL) Wind(LL) BRACING-

Vert(TL)

-0.05

-0.09

0.08

E-F

E-F

D

TOP CHORD Structural wood sheathing directly applied or 4-4-12 oc purlins,

240

n/a

240

Weight: 23 lb

FT = 20%

except end verticals, and 2-0-0 oc purlins: C-D.

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

>970

>655

n/a

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

10.0

(lb/size) D=140/Mechanical, H=288/0-5-8 (min. 0-1-8), E=139/Mechanical

Max Horz H=287(LC 17)

Max Uplift D=-202(LC 7), H=-281(LC 6), E=-167(LC 6) Max Grav D=141(LC 12), H=288(LC 1), E=151(LC 3)

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

TOP CHORD B-H=-260/327 BOT CHORD G-H=-253/94

NOTES-

BCDL

LUMBER-

REACTIONS.

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone; end vertical left exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) D=202, H=281, E=167.
- 9) This truss is designed in accordance with the 2009 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 12) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 81 lb down and 198 lb up at 1-11-15, and 39 lb down and 99 lb up at 4-4-0 on top chord, and 57 lb down and 39 lb up at 2-3-12, and 41 lb down and 31 lb up at 4-4-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 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 + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: A-B=-60, B-C=-60, C-D=-60, G-H=-20, E-F=-20

Concentrated Loads (lb)

Vert: C=-63(F) D=-39(F) G=-35(F) E=-35(F)



November 3,2016

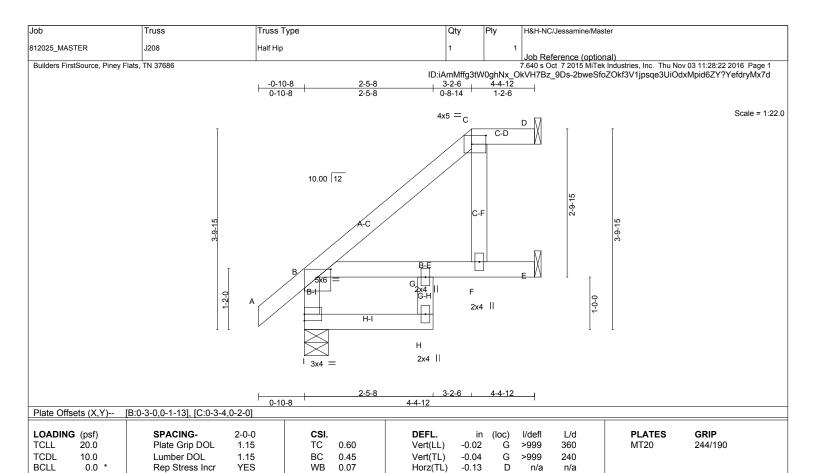




Design valid for use only with MiTek connectors. This design is based only upon parameters shown, and is for an individual building component. Applicability of design paramenters and proper incorporation of component is responsibility of building designer - not truss engineer/designer. Bracing shown is for lateral support of individual web members only. Additional temporary bracing to insure shalling during construction is the responsibility of the erector. Additional permanent bracing of the overall structure is the responsibility of the building designer. For general guidance regarding fabrication, quality control, storage, delivery, erection and bracing, consult

ANSITPH Quality Criteria, DSB-89 and BCSI1 Building Component Safety Information available from Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719.





Wind(LL)

BRACING-

TOP CHORD

BOT CHORD

0.09

Н >557

2-0-0 oc purlins: C-D.

Rigid ceiling directly applied.

240

Weight: 25 lb

Structural wood sheathing directly applied, except end verticals, and

FT = 20%

LUMBER-

BCDL

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

10.0

2x4 SP No.3 *Except* WFBS

G-H: 2x4 SP No.2

D=61/Mechanical, I=236/0-5-8 (min. 0-1-8), E=99/Mechanical REACTIONS. (lb/size)

Max Horz I=374(LC 8)

Max Uplift D=-71(LC 9), I=-119(LC 8), E=-166(LC 8) Max Grav D=61(LC 1), I=236(LC 1), E=100(LC 13)

Code IRC2009/TPI2007

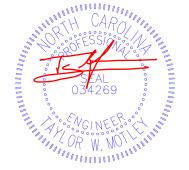
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) zone; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

(Matrix-S)

- 3) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) D except (jt=lb) I=119, E=166.
- 9) This truss is designed in accordance with the 2009 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and ½" gypsum sheetrock be applied directly to the bottom chord.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord

LOAD CASE(S) Standard



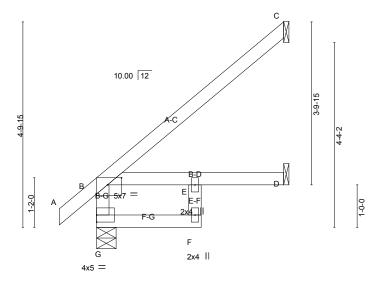




Job Truss Truss Type Qty H&H-NC/Jessamine/Master 812025 MASTER J209 Jack-Open 5 Job Reference (optional)
7.640 s Oct 7 2015 MiTek Industries, Inc. Thu Nov 03 11:28:23 2016 Page 1 Builders FirstSource, Piney Flats, TN 37686 ID:iAmMffg3tW0ghNx_OkVH7Bz_9Ds-WnU0f?pB91nv7BI?QXAI0wxnBmA9MagiDCNC9HyMx7c

-0-10-8 0-10-8 2-5-8 2-5-8 4-4-12 1-11-4

Scale = 1:27.1



4-4-12 0-10-8 4-4-12 Plate Offsets (X,Y)-- [B:0-3-15,0-2-0]

| | 0010 (71, 17 | [5:0 0 :0;0 = 0] | - | | |
|----------------|---------------------|---------------------------------------|------------------------|---|-----------------------------|
| LOADIN TCLL | G (psf) 20.0 | SPACING- 2-0-0 Plate Grip DOL 1.15 | CSI. TC 0.69 | DEFL. in (loc) I/defl L/d Vert(LL) -0.02 F >999 360 | PLATES GRIP MT20 244/190 |
| TCDL BCLL | 10.0 0.0 * | Lumber DOL 1.15 Rep Stress Incr YES | BC 0.44 WB 0.01 | Vert(TL) -0.05 F >938 240 Horz(TL) -0.09 D n/a n/a | 20 |
| BCDL | 10.0 | Code IRC2009/TPI2007 | (Matrix-S) | Wind(LL) 0.08 B-E >609 240 | Weight: 22 lb FT = 20% |

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SP No.2 2x4 SP No.2 BOT CHORD 2x4 SP No.3 *Except* WFBS

E-F: 2x4 SP No.2

REACTIONS. (lb/size) G=267/0-5-8 (min. 0-1-8), C=110/Mechanical, D=61/Mechanical

Max Horz G=452(LC 8)

Max Uplift G=-29(LC 8), C=-259(LC 8), D=-67(LC 8) Max Grav G=267(LC 1), C=110(LC 1), D=97(LC 3)

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

TOP CHORD B-G=-256/149

NOTES-

- 1) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) zone; end vertical left 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 basic load combinations, which include cases with reductions for multiple concurrent live loads.
- 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) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) G, D except (jt=lb) C=259.
- 7) This truss is designed in accordance with the 2009 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and ½" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard

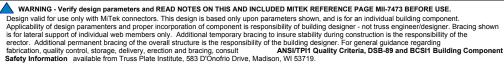


Structural wood sheathing directly applied, except end verticals.

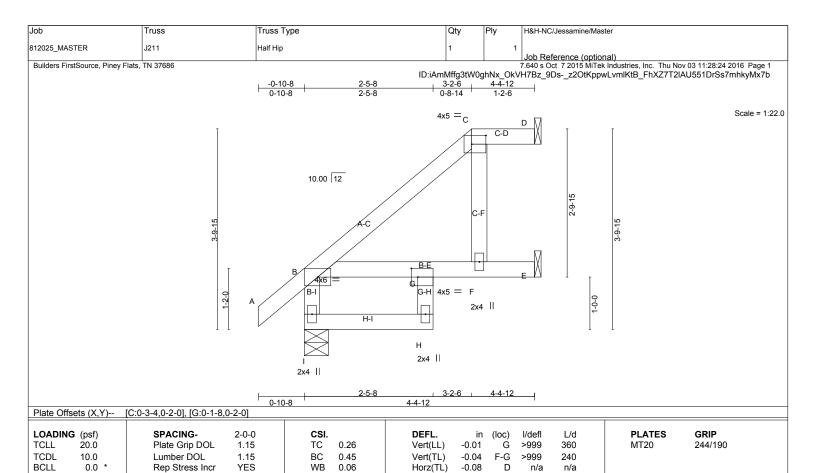
Rigid ceiling directly applied.











Wind(LL)

BRACING-

LUMBER-

BCDL

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

10.0

BOT CHORD 2x4 SP No.3 WFBS

TOP CHORD

(Matrix-S)

2-0-0 oc purlins: C-D. **BOT CHORD** Rigid ceiling directly applied.

F-G

>802

240

Weight: 25 lb

Structural wood sheathing directly applied, except end verticals, and

FT = 20%

0.06

REACTIONS. (lb/size) D=60/Mechanical, I=236/0-5-8 (min. 0-1-8), E=100/Mechanical

Max Horz I=374(LC 8)

Max Uplift D=-71(LC 9), I=-119(LC 8), E=-166(LC 8) Max Grav D=60(LC 1), I=236(LC 1), E=100(LC 13)

Code IRC2009/TPI2007

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

BOT CHORD H-I=-293/56, B-G=-52/283

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) zone; end vertical left 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 basic load combinations, which include cases with reductions for multiple concurrent live loads.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) D except (jt=lb) I=119, E=166.
- 9) This truss is designed in accordance with the 2009 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and ½" gypsum sheetrock be applied directly to the bottom chord.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord

LOAD CASE(S) Standard



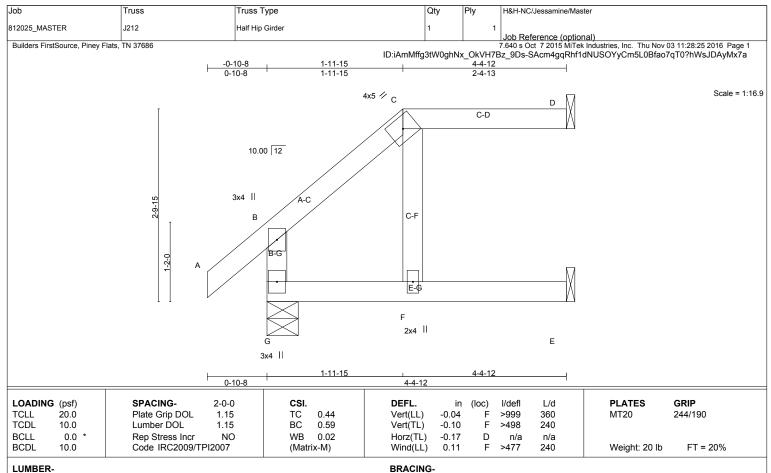
November 3,2016



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

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED WITER REFERENCE FOR SINCE AND SINCE Applicability of design paramenters and proper incorporation of component is responsibility of building designer - not truss engineer/designer. Bracing shown replacements of the state of th





BOT CHORD

LUMBER-

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

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

REACTIONS. (lb/size) D=326/Mechanical, G=367/0-5-8 (min. 0-1-8), E=209/Mechanical Max Horz G=283(LC 6)

Max Uplift D=-200(LC 7), G=-227(LC 6), E=-150(LC 6)

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

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone; end vertical left exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
- Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) D=200, G=227, E=150.
- 9) This truss is designed in accordance with the 2009 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 12) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 182 lb down and 78 lb up at 1-11-15, and 185 lb down and 92 lb up at 4-4-0 on top chord, and 75 lb down and 68 lb up at 2-0-11, and 82 lb down and 63 lb up at 4-4-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 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 + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: A-B=-60, B-C=-60, C-D=-60, E-G=-20

Concentrated Loads (lb)

Vert: C=-163(B) D=-185(B) E=-82(B) F=-75(B)



Structural wood sheathing directly applied or 4-4-12 oc purlins,

except end verticals, and 2-0-0 oc purlins: C-D.

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

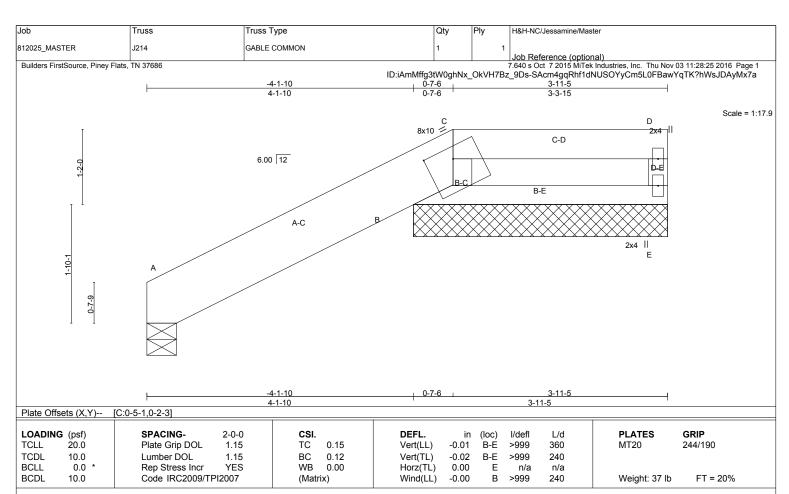
November 3,2016



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 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 Applicability of design paramenters and proper incorporation of component is responsibility of building designer - not truss engineer/designer. Bracing shown replacements of the state of th





2x10 SP No.1 *Except* TOP CHORD

C-D: 2x6 SP No.2

2x4 SP No.2

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

BRACING-

TOP CHORD **BOT CHORD** Structural wood sheathing directly applied or 3-11-5 oc purlins,

except end verticals, and 2-0-0 oc purlins: C-D. Rigid ceiling directly applied or 10-0-0 oc bracing.

A=119/0-5-8 (min. 0-1-8), E=126/3-11-5 (min. 0-1-8), B=380/3-11-5 (min. 0-1-8) REACTIONS. (lb/size)

Max Horz B=179(LC 8)

Max Uplift A=-117(LC 8), E=-96(LC 6), B=-272(LC 8)

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

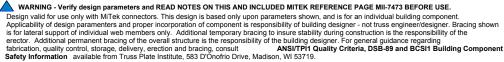
- 1) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Truss designed for 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.
- 3) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
- 4) Provide adequate drainage to prevent water ponding.
- 5) Gable studs spaced at 2-0-0 oc.
- 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) Bearing at joint(s) A considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) E except (jt=lb) A=117, B=272.
- 10) This truss is designed in accordance with the 2009 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 11) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

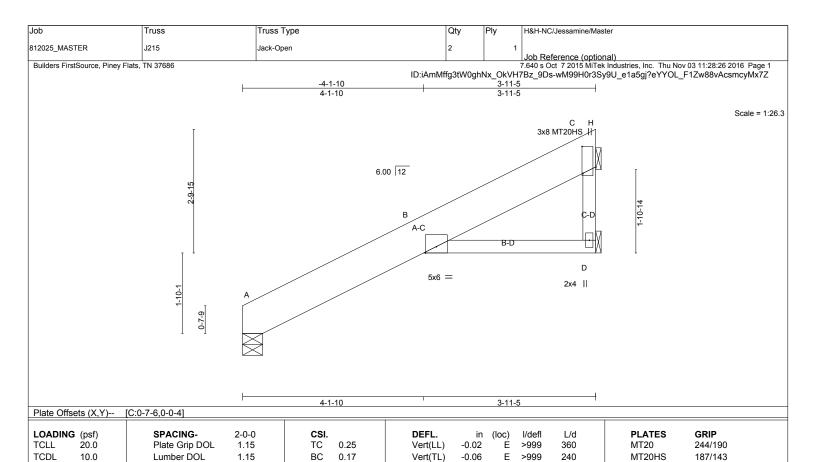












BCLL

BCDL

TOP CHORD 2x10 SP No.1 **BOT CHORD** 2x4 SP No.2

0.0

10.0

2x4 SP No.3 WFBS

Wind(LL) **BRACING-**

Horz(TL)

TOP CHORD **BOT CHORD**

-0.03

0.06

D

Ε >999

n/a

Structural wood sheathing directly applied or 3-11-5 oc purlins.

Weight: 45 lb

FT = 20%

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

n/a

240

REACTIONS.

(lb/size) A=321/0-5-8 (min. 0-1-8), D=95/Mechanical, C=223/Mechanical

YES

Max Horz C=341(LC 8)

Max Uplift A=-319(LC 8), D=-56(LC 8), C=-109(LC 8)

Rep Stress Incr

Code IRC2009/TPI2007

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

TOP CHORD

NOTES-

1) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) zone; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate

WB

(Matrix-M)

0.03

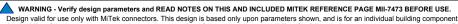
- 2) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
- 3) All plates are MT20 plates unless otherwise indicated.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live 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.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Bearing at joint(s) A considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) D except (jt=lb) A=319, C=109.
- 9) This truss is designed in accordance with the 2009 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.

LOAD CASE(S) Standard



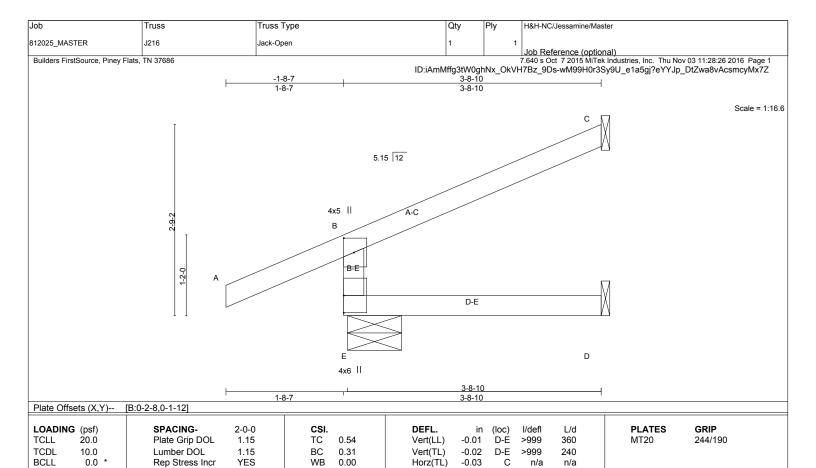
November 3,2016





Applicability of design paramenters and proper incorporation of component is responsibility of building designer - not truss engineer/designer. Bracing shown replacements of the state of th





Wind(LL)

BRACING-

TOP CHORD

BOT CHORD

0.02

D-E

>999

except end verticals.

240

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

Weight: 15 lb

Structural wood sheathing directly applied or 3-8-10 oc purlins,

FT = 20%

LUMBER-

REACTIONS.

BCDL

TOP CHORD 2x4 SP No.2

10.0

2x4 SP No.2 **BOT CHORD** WFBS 2x4 SP No 3

> (lb/size) E=280/0-9-7 (min. 0-1-8), C=80/Mechanical, D=31/Mechanical Max Horz E=268(LC 8)

Max Uplift E=-284(LC 8), C=-134(LC 8), D=-6(LC 8) Max Grav E=280(LC 1), C=80(LC 1), D=64(LC 3)

Code IRC2009/TPI2007

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

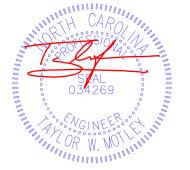
TOP CHORD B-E=-241/466

1) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) zone; cantilever left exposed; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

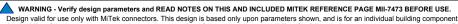
(Matrix-M)

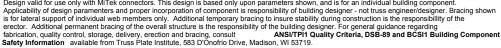
- 2) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 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) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) D except (jt=lb)
- 7) This truss is designed in accordance with the 2009 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 8) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.

LOAD CASE(S) Standard











Job Truss Truss Type Qty H&H-NC/Jessamine/Master 812025 MASTER J217 Jack-Open 6 Job Reference (optional)
7.640 s Oct 7 2015 MiTek Industries, Inc. Thu Nov 03 11:28:27 2016 Page 1 Builders FirstSource, Piney Flats, TN 37686 ID:iAmMffg3tW0ghNx_OkVH7Bz_9Ds-OYjXVMshDGHLcocmfNEEBm5XCNaQINqH8qLQl2yMx7Y -0-10-8 0-10-8 2-0-4 2-0-4 Scale = 1:17.3 С 10.00 12 П 3x4 В D 3x4 =2-0-4 0-10-8 2-0-4 LOADING (psf) SPACING-2-0-0 CSI. DEFL. in I/defl L/d **PLATES** GRIP (loc) TC Vert(LL) 244/190 **TCLL** 20.0 Plate Grip DOL 1.15 -0.00 360 0.37 >999 MT20 TCDI 10.0 1 15 BC 0.22 Vert(TL) -0.00 D-F 240 Lumber DOL >999 **BCLL** 0.0 Rep Stress Incr YES WB 0.00 Horz(TL) -0.02 С n/a

LUMBER-

BCDL

WEBS

TOP CHORD 2x4 SP No.2

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

10.0

Wind(LL) **BRACING-**TOP CHORD

0.01

Structural wood sheathing directly applied or 2-0-4 oc purlins, except

Weight: 10 lb

FT = 20%

end verticals.

D-E

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

240

n/a

>999

REACTIONS. (lb/size) E=151/0-5-8 (min. 0-1-8), C=40/Mechanical, D=16/Mechanical

Max Horz E=276(LC 8)

Max Uplift E=-36(LC 8), C=-136(LC 8), D=-55(LC 8) Max Grav E=151(LC 1), C=40(LC 1), D=34(LC 3)

Code IRC2009/TPI2007

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

1) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) zone; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

(Matrix-M)

- 2) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
- 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) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) E, D except (jt=lb)
- 7) This truss is designed in accordance with the 2009 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 8) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.

LOAD CASE(S) Standard



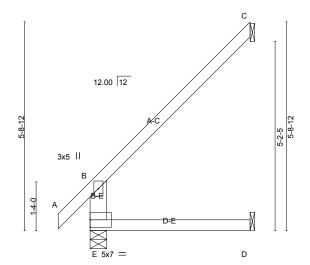




Job Truss Truss Type Qty Ply H&H-NC/Jessamine/Master 812025 MASTER J220 Jack-Open 13 Job Reference (optional)
7.640 s Oct 7 2015 MiTek Industries, Inc. Thu Nov 03 11:28:27 2016 Page 1
ID:iAmMffg3tW0ghNx_OkVH7Bz_9Ds-OYjXVMshDGHLcocmfNEEBm5QANPFINqH8qLQI2yMx7Y Builders FirstSource, Piney Flats, TN 37686

0-10-8 4-4-12 4-4-12

Scale = 1:31.6



4-4-12 0-10-8 4-4-12

| LOADING TCLL TCDL | G (psf) 20.0 10.0 | SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 | CSI. TC 0.82 BC 0.94 | Vert(LL) -0.01 D-E > | l/defl L/d >999 360 >999 240 | PLATES GRIP MT20 244/190 |
|-------------------------|--------------------------|--|----------------------------|---|------------------------------------|--|
| BCLL BCDL | 0.0 * 10.0 | Rep Stress Incr YES Code IRC2009/TPI2007 | WB 0.00 (Matrix-S) | Horz(TL) -0.18 C Wind(LL) 0.11 D-E > | n/a n/a >450 240 | Weight: 21 lb FT = 20% |

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

2x6 SP No.2 **WEBS**

REACTIONS. (lb/size) E=239/0-5-8 (min. 0-1-8), C=108/Mechanical, D=47/Mechanical

Max Horz E=544(LC 8)

Max Uplift C=-343(LC 8), D=-83(LC 8)

Max Grav E=239(LC 1), C=108(LC 1), D=77(LC 3)

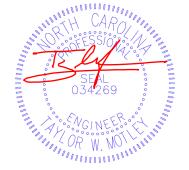
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD B-C=-303/59

NOTES-

- 1) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) zone; end vertical left 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 basic load combinations, which include cases with reductions for multiple concurrent live loads.
- 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) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) D except (jt=lb)
- 7) This truss is designed in accordance with the 2009 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and ½" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard



Structural wood sheathing directly applied, except end verticals.

Rigid ceiling directly applied.







Job Truss Truss Type Qty H&H-NC/Jessamine/Master 812025 MASTER J221 Half Hip Job Reference (optional)
7.640 s Oct 7 2015 MiTek Industries, Inc. Thu Nov 03 11:28:28 2016 Page 1

Builders FirstSource, Piney Flats, TN 37686

ID:iAmMffg3tW0ghNx_OkVH7Bz_9Ds-slHviisK_aPCEyBzD4lTjzefgnqP1pTRNU5zqVyMx7X

Structural wood sheathing directly applied, except end verticals, and

Scale = 1:26.6

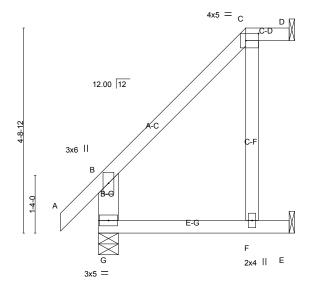


Plate Offsets (X,Y)-- [C:0-3-8,0-2-0]

| LOADIN TCLL TCDL | 20.ó 10.0 | SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 | CSI. TC 0.52 BC 0.62 | DEFL. in Vert(LL) -0.01 Vert(TL) -0.04 | F-G | I/defl L/d >999 360 >999 240 | PLATES GRIP MT20 244/190 |
|------------------------|--------------|--|----------------------------|---|-----|------------------------------------|-----------------------------|
| BCLL BCDL | 0.0 * | Rep Stress Incr YES Code IRC2009/TPI2007 | WB 0.10 (Matrix-S) | Horz(TL) -0.22 Wind(LL) 0.12 | D | n/a n/a >406 240 | Weight: 26 lb FT = 20% |

4-4-12

BRACING-

TOP CHORD

BOT CHORD

4-4-12

2-0-0 oc purlins: C-D.

Rigid ceiling directly applied.

LUMBER-

REACTIONS.

TOP CHORD 2x4 SP No.2

BOT CHORD 2x4 SP No.2 2x6 SP No.2 *Except* WFBS

C-F: 2x4 SP No.3

(lb/size) D=50/Mechanical, G=239/0-5-8 (min. 0-1-8), E=105/Mechanical

Max Horz G=468(LC 8)

Max Uplift D=-45(LC 9), G=-41(LC 8), E=-278(LC 8) Max Grav D=52(LC 14), G=239(LC 1), E=105(LC 1)

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

WEBS C-F=-81/349

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) zone; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

0-10-8

- 3) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) D, G except (jt=lb)
- 9) This truss is designed in accordance with the 2009 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and ½" gypsum sheetrock be applied directly to the bottom chord.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord

LOAD CASE(S) Standard









Job Truss Truss Type Qty H&H-NC/Jessamine/Master 812025 MASTER J222 Half Hip Job Reference (optional)
7.640 s Oct 7 2015 MiTek Industries, Inc. Thu Nov 03 11:28:29 2016 Page 1 Builders FirstSource, Piney Flats, TN 37686 ID:iAmMffg3tW0ghNx_OkVH7Bz_9Ds-LxrHw2tyltY3r6m9noGiGBAqYBBMmGGac8qXMxyMx7W 2-4-12 2-4-12 2-0-0 4x5 = C Scale = 1:21.5 C-D 12.00 12 3x5 || E-G F 2x4 || Ε 4x5 | 0-10-8 4-4-12 Plate Offsets (X,Y)-- [C:0-3-8,0-2-0]

LUMBER-

TCLL

TCDL

BCLL

BCDL

LOADING (psf)

TOP CHORD 2x4 SP No.2

20.0

10.0

10.0

0.0

BOT CHORD 2x4 SP No.2 2x4 SP No.3 WFBS

Wind(LL) BRACING-

DEFL.

Vert(LL)

Vert(TL)

Horz(TL)

TOP CHORD Structural wood sheathing directly applied, except end verticals, and

360

240

n/a

240

PLATES

Weight: 23 lb

MT20

GRIP

244/190

FT = 20%

2-0-0 oc purlins: C-D.

I/defl

>999

n/a

>489

BOT CHORD Rigid ceiling directly applied.

(loc)

F >999

D

F-G

-0.02

-0.05

-0.21

0.10

 $(lb/size) \quad \ D=88/Mechanical, \ G=236/0-5-8 \ \ (min. \ 0-1-8), \ E=72/Mechanical$ REACTIONS.

2-0-0

1 15

1.15

YES

Max Horz G=374(LC 8)

Max Uplift D=-108(LC 7), G=-111(LC 8), E=-110(LC 8) Max Grav D=88(LC 1), G=236(LC 1), E=74(LC 3)

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

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

SPACING-

Plate Grip DOL

Rep Stress Incr

Code IRC2009/TPI2007

Lumber DOL

2) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) zone; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

CSI.

TC

ВС

WB

(Matrix-S)

0.57

0.58

0.07

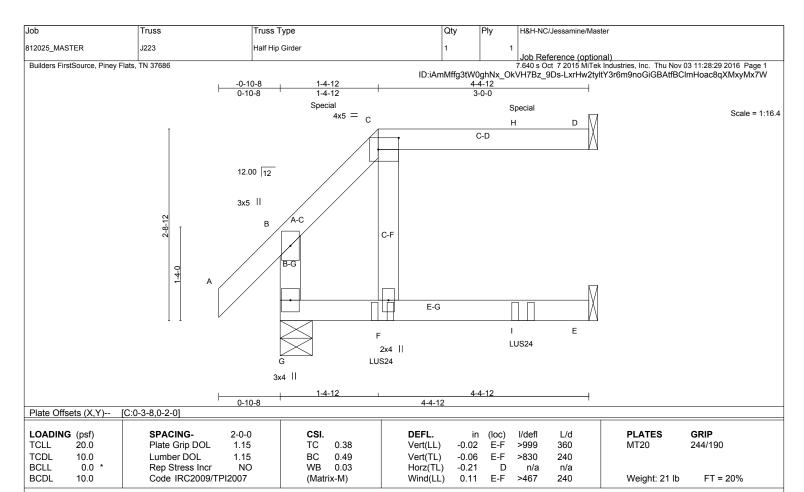
- 3) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) D=108, G=111, E=110.
- 9) This truss is designed in accordance with the 2009 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and ½" gypsum sheetrock be applied directly to the bottom chord.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard









TOP CHORD 2x4 SP No.2

BOT CHORD 2x4 SP No.2 WEBS 2x4 SP No.2 BRACING-

TOP CHORD
BOT CHORD

Structural wood sheathing directly applied or 4-4-12 oc purlins,

except end verticals, and 2-0-0 oc purlins: C-D. Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (lb/size) D=137/Mechanical, G=282/0-5-8 (min. 0-1-8), E=82/Mechanical

Max Horz G=287(LC 17)

Max Uplift D=-222(LC 7), G=-292(LC 6), E=-105(LC 6) Max Grav D=138(LC 12), G=282(LC 1), E=109(LC 3)

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 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone; end vertical left exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) D=222, G=292, E=105.
- 9) This truss is designed in accordance with the 2009 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 12) Use Simpson Strong-Tie LUS24 (4-10d Girder, 2-10d Truss, Single Ply Girder) or equivalent spaced at 2-0-0 oc max. starting at 1-5-8 from the left end to 3-5-8 to connect truss(es) J224 (1 ply 2x4 SP) to back face of bottom chord.
- 13) Fill all nail holes where hanger is in contact with lumber.
- 14) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 53 lb down and 136 lb up at 1-4-12, and 38 lb down and 143 lb up at 3-5-8 on top chord. The design/selection of such connection device(s) is the responsibility of others.
- 15) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

Vert: A-B=-60, B-C=-60, C-D=-60, E-G=-20



November 3,2016

Continued on page 2



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 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. Applicability of design paramenters and proper incorporation of component is responsibility of building designer - not truss engineer/designer. Bracing shown is for lateral support of individual web members only. Additional temporary bracing to insure stability during construction is the responsibility of the erector. Additional permanent bracing of the overall structure is the responsibility of the building designer. For general guidance regarding fabrication, quality control, storage, delivery, erection and bracing, consult

ANSI/TPI1 Quality Criteria, DSB-89 and BCSI1 Building Component Safety Information available from Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719.



| Job | Truss | Truss Type | Qty | Ply | H&H-NC/Jessamine/Master |
|---------------|-------|-----------------|-----|-----|--------------------------|
| 812025_MASTER | J223 | Half Hip Girder | 1 | 1 | |
| _ | | • | | | Job Reference (optional) |

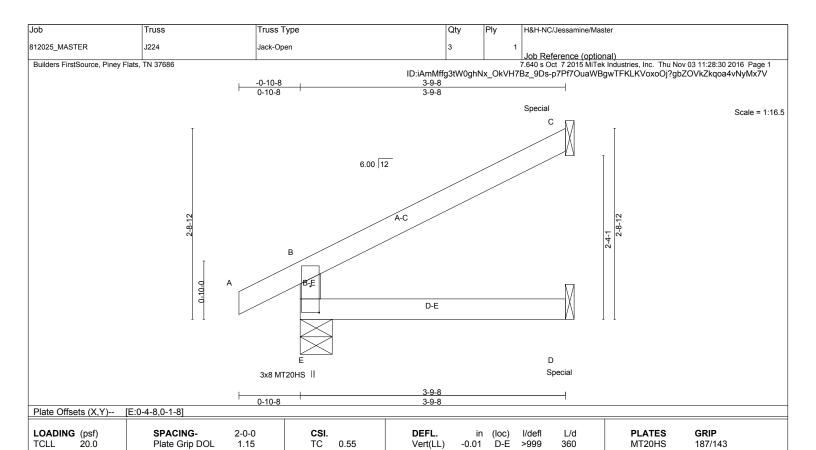
Builders FirstSource, Piney Flats, TN 37686

7.640 s Oct 7 2015 MiTek Industries, Inc. Thu Nov 03 11:28:29 2016 Page 2 ID:iAmMffg3tW0ghNx_OkVH7Bz_9Ds-LxrHw2tyltY3r6m9noGiGBAtfBClmHoac8qXMxyMx7W

LOAD CASE(S) Standard Concentrated Loads (lb)

Vert: C=-35(B) F=-15(B) H=-38(B) I=-17(B)





TCDL

BCLL

BCDL

TOP CHORD 2x4 SP No.2

10.0

10.0

0.0

BOT CHORD 2x4 SP No.2 2x4 SP No 3 WFBS

Wind(LL) **BRACING-**

Vert(TL)

Horz(TL)

-0.02

-0.02

0.02

TOP CHORD Structural wood sheathing directly applied or 3-9-8 oc purlins, except

Weight: 14 lb

FT = 20%

240

n/a

240

end verticals.

D-E

D-E

С

>999

>999

n/a

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

REACTIONS. (lb/size) E=213/0-5-8 (min. 0-1-8), C=95/Mechanical, D=35/Mechanical

1.15

YES

Max Horz E=244(LC 8)

Max Uplift E=-168(LC 8), C=-167(LC 8), D=-28(LC 8) Max Grav E=213(LC 1), C=95(LC 1), D=70(LC 3)

Lumber DOL

Rep Stress Incr

Code IRC2009/TPI2007

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

TOP CHORD B-E=-182/320

1) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) zone; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

ВС

WB

(Matrix-M)

0.33

0.00

- 2) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
- 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) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) D except (jt=lb) E=168, C=167.
- 7) This truss is designed in accordance with the 2009 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 8) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
- 9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 2 lb down and 61 lb up at 3-8-12 on top chord, and 3 lb down and 18 lb up at 3-8-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others
- 10) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: A-B=-60, B-C=-60, D-E=-20

Concentrated Loads (lb)

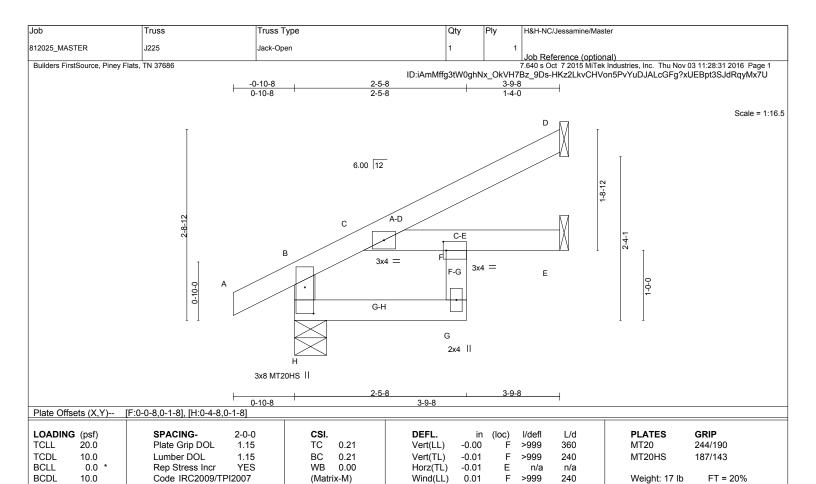
Vert: D=5(B)



November 3,2016







BRACING-

TOP CHORD

BOT CHORD

end verticals.

LUMBER-

REACTIONS.

TOP CHORD 2x4 SP No.2

BOT CHORD 2x4 SP No.2 2x4 SP No.3 WFBS

(lb/size) H=248/0-5-8 (min. 0-1-8), D=68/Mechanical, E=58/Mechanical

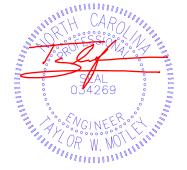
Max Horz H=244(LC 8)

Max Uplift H=-178(LC 8), D=-99(LC 8), E=-45(LC 8) Max Grav H=248(LC 1), D=68(LC 1), E=76(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD B-H=-225/327

- 1) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) zone; end vertical left 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 basic load combinations, which include cases with reductions for multiple concurrent live loads.
- 3) All plates are MT20 plates 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.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) D, E except (jt=lb) H=178.
- 8) This truss is designed in accordance with the 2009 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 9) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss

LOAD CASE(S) Standard

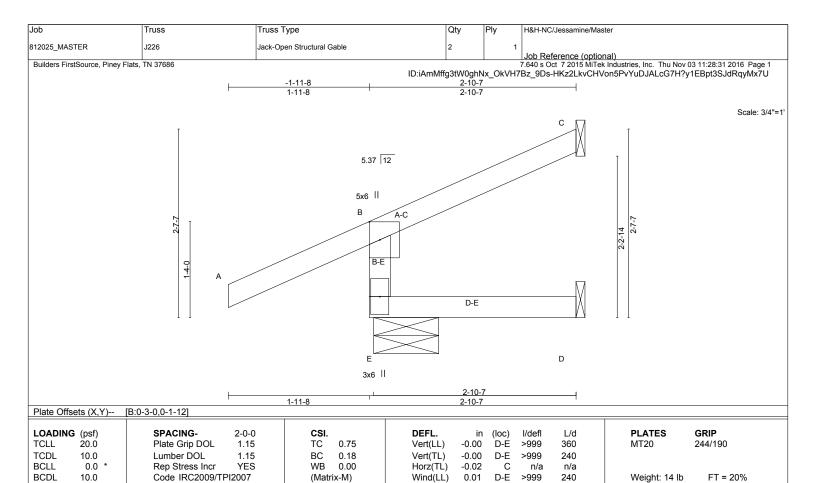


Structural wood sheathing directly applied or 3-9-8 oc purlins, except

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







TOP CHORD 2x4 SP No.2

BOT CHORD 2x4 SP No.2 2x4 SP No.3 WFBS

BRACING-

TOP CHORD

Structural wood sheathing directly applied or 2-10-7 oc purlins,

except end verticals.

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

REACTIONS.

(lb/size) C=42/Mechanical, E=282/0-10-13 (min. 0-1-8), D=15/Mechanical

Max Horz E=218(LC 8)

Max Uplift C=-80(LC 8), E=-313(LC 8), D=-5(LC 8) Max Grav C=42(LC 1), E=282(LC 1), D=46(LC 3)

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

TOP CHORD B-E=-244/473

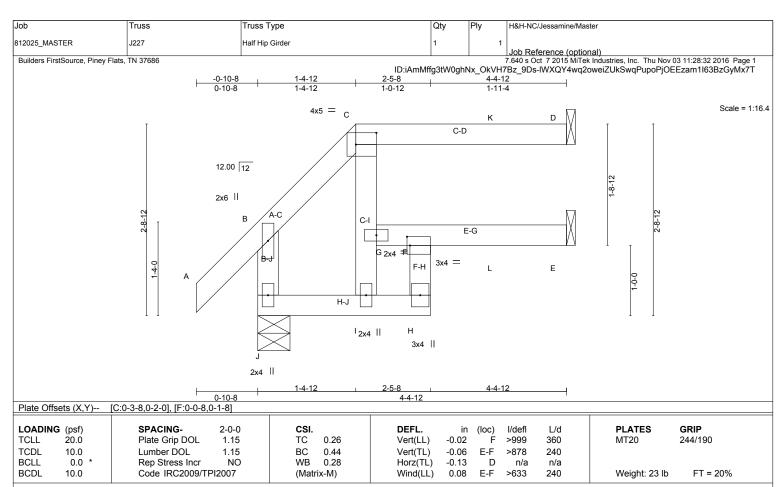
- 1) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) zone; cantilever left exposed; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Truss 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.
- 3) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
- 4) Gable studs spaced at 2-0-0 oc.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) C, D except (jt=lb)
- 9) This truss is designed in accordance with the 2009 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.

LOAD CASE(S) Standard









TOP CHORD 2x4 SP No.2

BOT CHORD 2x4 SP No.2 WEBS 2x4 SP No.2 BRACING-

TOP CHORD
BOT CHORD

Structural wood sheathing directly applied or 4-4-12 oc purlins,

except end verticals, and 2-0-0 oc purlins: C-D. Rigid ceiling directly applied or 10-0-0 oc bracing

REACTIONS. (lb/size) D=106/Mechanical, J=290/0-5-8 (min. 0-1-8), E=116/Mechanical

Max Horz J=287(LC 6)

Max Uplift D=-149(LC 4), J=-276(LC 6), E=-146(LC 6) Max Grav D=107(LC 12), J=290(LC 1), E=139(LC 3)

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

WEBS G-I=-172/272

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone; end vertical left exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) D=149, J=276, E=146.
- This truss is designed in accordance with the 2009 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 12) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 53 lb down and 141 lb up at 1-4-12, and 15 lb down and 74 lb up at 3-5-8 on top chord, and 30 lb down and 40 lb up at 1-6-8, and 39 lb down and 56 lb up at 3-5-8 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 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

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

Vert: A-B=-60, B-C=-60, C-D=-60, H-J=-20, F-G=-20, E-F=-20

Concentrated Loads (lb)

Vert: C=-35(F) I=-15(F) K=-12(F) L=-39(F)



November 3,2016

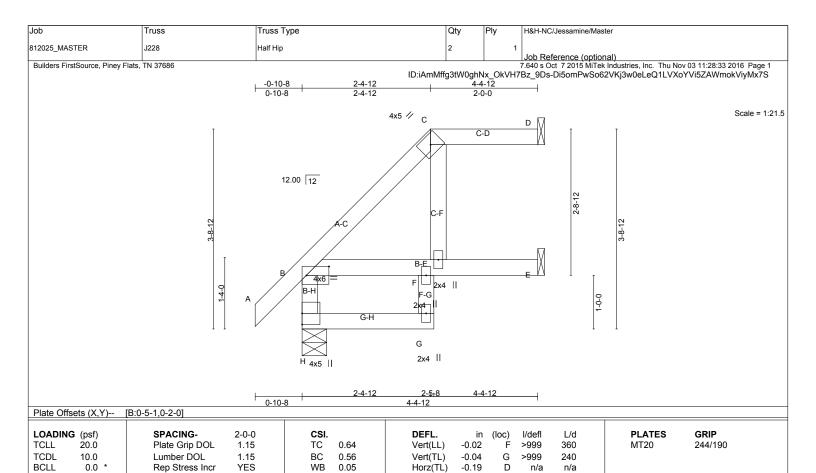


WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 BEFORE USE.

Design valid for use only with MiTek connectors. This design is based only upon parameters shown, and is for an individual building component. Applicability of design paramenters and proper incorporation of component is responsibility of building designer - not truss engineer/designer. Bracing shown is for lateral support of individual web members only. Additional temporary bracing to insure shalling during construction is the responsibility of the erector. Additional permanent bracing of the overall structure is the responsibility of the building designer. For general guidance regarding fabrication, quality control, storage, delivery, erection and bracing, consult

ANSITPH Quality Criteria, DSB-89 and BCSI1 Building Component Safety Information available from Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719.





Wind(LL)

BRACING-

TOP CHORD

BOT CHORD

0.09

F >555 240

except end verticals, and 2-0-0 oc purlins: C-D.

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

Weight: 26 lb

Structural wood sheathing directly applied or 4-4-12 oc purlins,

FT = 20%

LUMBER-

BCDL

TOP CHORD 2x4 SP No.2

10.0

2x4 SP No.2 BOT CHORD 2x4 SP No.3 *Except* WFBS

F-G: 2x4 SP No.2

REACTIONS. D=91/Mechanical, H=236/0-5-8 (min. 0-1-8), E=69/Mechanical (lb/size)

Max Horz H=364(LC 8)

Max Uplift D=-127(LC 9), H=-103(LC 8), E=-94(LC 8) Max Grav D=91(LC 1), H=236(LC 1), E=74(LC 3)

Code IRC2009/TPI2007

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

TOP CHORD B-H=-215/316

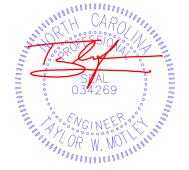
NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) zone; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate

(Matrix-M)

- 3) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) E except (jt=lb) D=127. H=103.
- 9) This truss is designed in accordance with the 2009 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord

LOAD CASE(S) Standard



November 3,2016





Job Truss Truss Type Qty H&H-NC/Jessamine/Master 812025 MASTER J229 Half Hip 12 Job Reference (optional)
7.640 s Oct 7 2015 MiTek Industries, Inc. Thu Nov 03 11:28:34 2016 Page 1
ID:iAmMffg3tW0ghNx_OkVH7Bz_9Ds-hveAzix4ZQAMyte6ZLstzEufqCtjRX2JIQYH28yMx7R Builders FirstSource, Piney Flats, TN 37686 -0-10-8 0-10-8 3-4-12 4-4-12 0-11-4 1-0-0 4x5 = C Scale = 1:26.6 C-D 12.00 12 G F 1-0-0 2x4 || Н 2x4 4x5 || 0-10-8 4-4-12

| Plate Offsets | (X,Y |) | B:0-5- | 1,0-2- | ·12], | 10:0 | U-3-8, | 0-2-0 |
|---------------|------|---|--------|--------|-------|------|--------|-------|
| | | | | | _ | | | |

| LOADIN | | SPACING- 2-0-0 | CSI. | DEFL. | in (loc) | I/defl L/d | | |
|--------|-------|----------------------|------------|--------------|----------|------------|-----------|-----------------|
| TCLL | 20.0 | Plate Grip DOL 1.15 | TC 0.67 | Vert(LL) -0. | | >999 360 | | 244/190 |
| TCDL | 10.0 | Lumber DOL 1.15 | BC 0.63 | Vert(TL) -0. | | >999 240 | | |
| BCLL | 0.0 * | Rep Stress Incr YES | WB 0.10 | Horz(TL) -0. | | n/a n/a | | 00 lb FT - 000/ |
| BCDL | 10.0 | Code IRC2009/TPI2007 | (Matrix-M) | Wind(LL) 0. | 12 H | >406 240 |) Weight: | 28 lb FT = 20% |

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SP No.2

2x4 SP No.2 BOT CHORD 2x4 SP No.3 *Except* WFBS

G-H: 2x4 SP No.2

REACTIONS. (lb/size) D=39/Mechanical, I=236/0-5-8 (min. 0-1-8), E=121/Mechanical

Max Horz I=451(LC 8)

Max Uplift D=-44(LC 9), I=-31(LC 8), E=-276(LC 8) Max Grav D=42(LC 14), I=236(LC 1), E=121(LC 1)

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

WEBS C-F=-97/327

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) zone; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate
- 3) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) D, I except (jt=lb)
- 9) This truss is designed in accordance with the 2009 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord

LOAD CASE(S) Standard



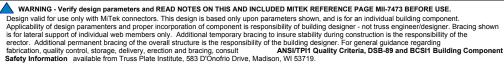
Structural wood sheathing directly applied or 4-4-12 oc purlins,

except end verticals, and 2-0-0 oc purlins: C-D.

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





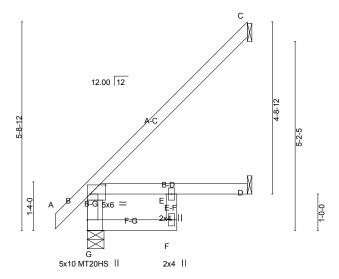






ID:iAmMffg3tW0ghNx_OkVH7Bz_9Ds-95CYA5yjKjICZ1DJ73N6VSQmrcEwA?dT_4HrabyMx7Q 4-4-12 1-11-4

Scale = 1:31.6



4-4-12 0-10-8 4-4-12

| Plate Offsets (X,Y) [B:0-5-1,0-3-0] |
|-------------------------------------|
|-------------------------------------|

| LOADIN | | SPACING- 2-0-0 | CSI. | DEFL. | in (loc) | I/defl L/d | PLATES GRIP |
|--------|-------|----------------------|------------|-------------|----------|------------|------------------------|
| TCLL | 20.0 | Plate Grip DOL 1.15 | TC 0.91 | Vert(LL) -0 | -0.02 F | >999 360 | MT20 244/190 |
| TCDL | 10.0 | Lumber DOL 1.15 | BC 0.57 | Vert(TL) -0 | -0.06 F | >902 240 | MT20HS 187/143 |
| BCLL | 0.0 * | Rep Stress Incr YES | WB 0.01 | Horz(TL) -0 | -0.13 C | n/a n/a | |
| BCDL | 10.0 | Code IRC2009/TPI2007 | (Matrix-S) | Wind(LL) | 0.10 B-E | >481 240 | Weight: 24 lb FT = 20% |

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SP No.2 2x4 SP No.2 BOT CHORD 2x4 SP No.3 *Except* WFBS

E-F: 2x4 SP No.2

REACTIONS. (lb/size) G=271/0-5-8 (min. 0-1-8), C=112/Mechanical, D=59/Mechanical

Max Horz G=527(LC 8)

Max Uplift C=-320(LC 8), D=-94(LC 8)

Max Grav G=271(LC 1), C=112(LC 1), D=98(LC 3)

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

B-G=-253/168, B-C=-290/61 TOP CHORD

NOTES-

- 1) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) zone; end vertical left 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 basic load combinations, which include cases with reductions for multiple concurrent live loads.
- 3) All plates are MT20 plates 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.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) D except (jt=lb) C=320.
- 8) This truss is designed in accordance with the 2009 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and ½" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard

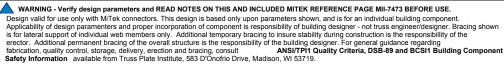


Structural wood sheathing directly applied, except end verticals.

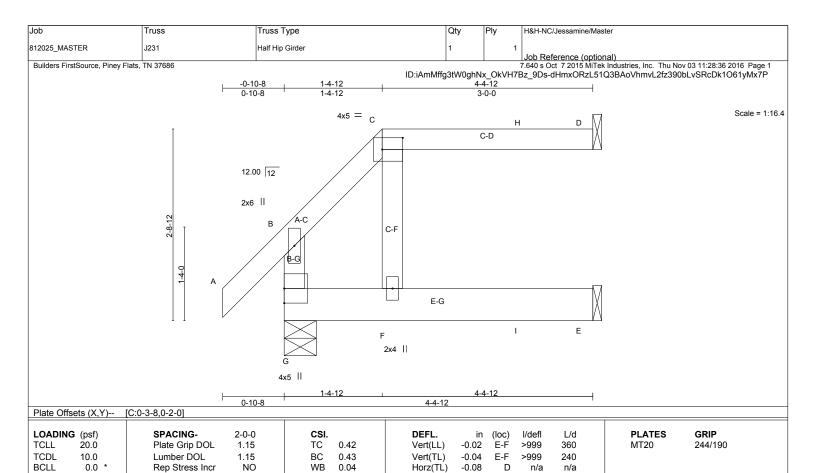
Rigid ceiling directly applied.











BCDL

TOP CHORD 2x4 SP No.2

10.0

BOT CHORD 2x6 SP No.2 WEBS 2x4 SP No.2 BRACING-

BOT CHORD

Wind(LL)

0.04

E-F

>999

TOP CHORD Structural wood sheathing directly applied or 4-4-12 oc purlins,

240

except end verticals, and 2-0-0 oc purlins: C-D. Rigid ceiling directly applied or 10-0-0 oc bracing.

Weight: 24 lb

FT = 20%

REACTIONS. (lb/size) D=201/Mechanical, G=444/0-5-8 (min. 0-1-8), E=216/Mechanical

Code IRC2009/TPI2007

Max Horz G=284(LC 17)

Max Uplift D=-127(LC 4), G=-254(LC 6), E=-154(LC 6) Max Grav D=202(LC 12), G=444(LC 1), E=219(LC 12)

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

WEBS C-F=-283/201

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone; end vertical left exposed; Lumber DOL=1.60 plate grip DOL=1.60

(Matrix-M)

- 3) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) D=127, G=254, E=154.
- This truss is designed in accordance with the 2009 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 12) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 171 lb down and 51 lb up at 1-4-12, and 156 lb down and 57 lb up at 3-5-8 on top chord, and 78 lb down and 79 lb up at 1-5-8, and 79 lb down and 78 lb up at 3-5-8 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 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 + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (olf)

Vert: A-B=-60, B-C=-60, C-D=-60, E-G=-20

Concentrated Loads (lb)

Vert: C=-153(B) F=-78(B) H=-156(B) I=-79(B)



November 3,2016

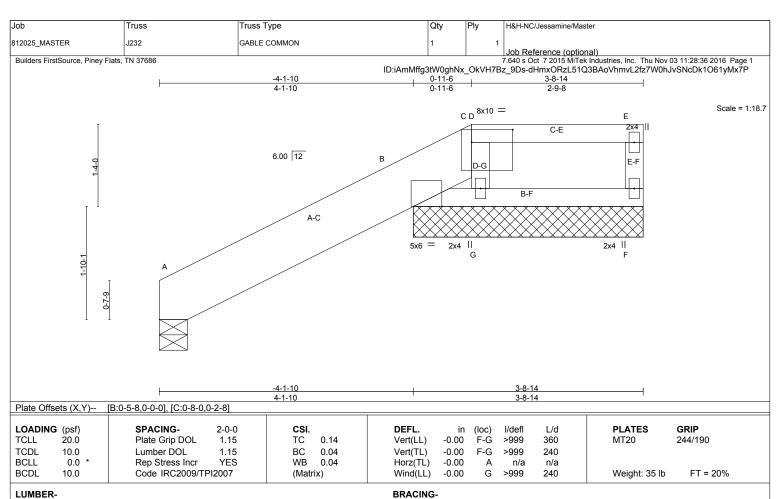


WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 BEFORE USE.

Design valid for use only with MiTek connectors. This design is based only upon parameters shown, and is for an individual building component. Applicability of design paramenters and proper incorporation of component is responsibility of building designer - not truss engineer/designer. Bracing shown is for lateral support of individual web members only. Additional temporary bracing to insure shalling during construction is the responsibility of the erector. Additional permanent bracing of the overall structure is the responsibility of the building designer. For general guidance regarding fabrication, quality control, storage, delivery, erection and bracing, consult

ANSITPH Quality Criteria, DSB-89 and BCSI1 Building Component Safety Information available from Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719.





TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD

2x10 SP No.1 *Except* C-E: 2x4 SP No.2

2x4 SP No 2

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

OTHERS 2x4 SP No.3

REACTIONS. All bearings 3-8-14 except (jt=length) A=0-5-8.

(lb) - Max Horz B=232(LC 8)

Max Uplift All uplift 100 lb or less at joint(s) F except A=-121(LC 8), B=-221(LC 8), G=-107(LC 6)

Max Grav All reactions 250 lb or less at joint(s) A, F, G except B=326(LC 1)

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

NOTES-

- 1) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) zone; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) 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.
- 3) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
- 4) Provide adequate drainage to prevent water ponding.
- 5) Gable studs spaced at 2-0-0 oc.
- 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) Bearing at joint(s) A considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) F except (jt=lb) A=121, B=221, G=107.
- 10) This truss is designed in accordance with the 2009 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 11) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



Structural wood sheathing directly applied or 3-8-14 oc purlins,

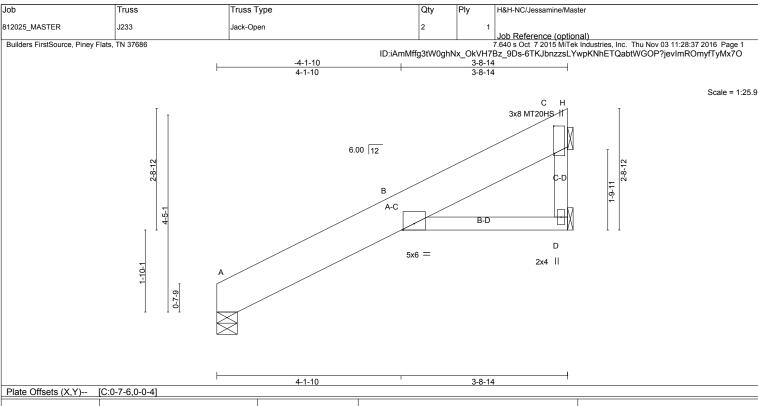
except end verticals, and 2-0-0 oc purlins: C-E.

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

November 3,2016







| LOADING (psf) | SPACING- 2-0-0 | CSI. | DEFL. in | (loc) I/d | lefl L/d | PLATES GRIP |
|---------------|----------------------|------------|----------------|-----------|----------|------------------------|
| TCLL 20.0 | Plate Grip DOL 1.15 | TC 0.26 | Vert(LL) -0.02 | È >9 | 99 360 | MT20 244/190 |
| TCDL 10.0 | Lumber DOL 1.15 | BC 0.16 | Vert(TL) -0.05 | E >9 | 99 240 | MT20HS 187/143 |
| BCLL 0.0 * | Rep Stress Incr YES | WB 0.00 | Horz(TL) -0.03 | D | n/a n/a | |
| BCDI 10.0 | Code IPC2000/TPI2007 | (Matriy_M) | \Mind(LL) 0.06 | F >0 | 00 240 | Weight: 44 lb FT = 20% |

TOP CHORD 2x10 SP No.1

BOT CHORD 2x4 SP No.2 WFBS 2x4 SP No 2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-8-14 oc purlins,

except end verticals.

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

(lb/size) A=313/0-5-8 (min. 0-1-8), D=98/Mechanical, C=213/Mechanical REACTIONS.

Max Horz C=424(LC 8)

Max Uplift A=-323(LC 8), D=-67(LC 8), C=-82(LC 8)

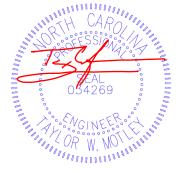
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD

NOTES-

- 1) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) zone; end vertical left 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 basic load combinations, which include cases with reductions for multiple concurrent live loads.
- 3) All plates are MT20 plates 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.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Bearing at joint(s) A considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) D, C except (jt=lb) A=323.
- 9) This truss is designed in accordance with the 2009 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
- 11) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.

LOAD CASE(S) Standard







Job Truss Truss Type Qty H&H-NC/Jessamine/Master 812025 MASTER J234 Jack-Open 5 Job Reference (optional)
7.640 s Oct 7 2015 MiTek Industries, Inc. Thu Nov 03 11:28:37 2016 Page 1

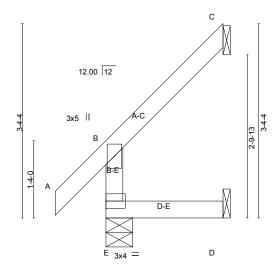
Builders FirstSource, Piney Flats, TN 37686

-0-10-8 0-10-8

ID:iAmMffg3tW0ghNx_OkVH7Bz_9Ds-6TKJbnzzsLYwpKNhETQabtWCQPzEevImROmyfTyMx7O

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

Scale = 1:19.9



| 1 | | 2-0-4 | |
|--------|---|-------|---|
| 0-10-8 | - | 2-0-4 | _ |

| L | OADING | (psf) | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | I/defl | L/d | PLATES | GRIP |
|---|--------|-------|-----------------|--------|-------|-------|----------|-------|-------|--------|-----|---------------|----------|
| T | CLL | 20.0 | Plate Grip DOL | 1.15 | TC | 0.52 | Vert(LL) | -0.00 | Ε | >999 | 360 | MT20 | 244/190 |
| T | CDL | 10.0 | Lumber DOL | 1.15 | BC | 0.32 | Vert(TL) | -0.00 | D-E | >999 | 240 | | |
| E | 3CLL | 0.0 * | Rep Stress Incr | YES | WB | 0.00 | Horz(TL) | -0.04 | С | n/a | n/a | | |
| E | BCDL | 10.0 | Code IRC2009/TF | PI2007 | (Matr | ix-M) | Wind(LL) | 0.01 | D-E | >999 | 240 | Weight: 11 lb | FT = 20% |

BRACING-

BOT CHORD

LUMBER-

TOP CHORD 2x4 SP No.2 TOP CHORD Structural wood sheathing directly applied or 2-0-4 oc purlins, except BOT CHORD 2x4 SP No.2 end verticals. 2x4 SP No.3

REACTIONS. (lb/size) E=151/0-5-8 (min. 0-1-8), C=39/Mechanical, D=16/Mechanical

Max Horz E=331(LC 8)

Max Uplift E=-18(LC 6), C=-174(LC 8), D=-86(LC 8) Max Grav E=151(LC 1), C=39(LC 1), D=34(LC 3)

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

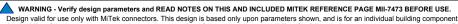
WEBS

- 1) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) zone; end vertical left 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 basic load combinations, which include cases with reductions for multiple concurrent live loads.
- 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) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) E, D except (jt=lb)
- 7) This truss is designed in accordance with the 2009 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 8) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.

LOAD CASE(S) Standard





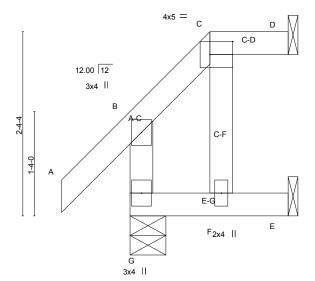




Job Truss Truss Type Qty H&H-NC/Jessamine/Master 812025 MASTER J235 Half Hip Girder Job Reference (optional)
7.640 s Oct 7 2015 MiTek Industries, Inc. Thu Nov 03 11:28:38 2016 Page 1 Builders FirstSource, Piney Flats, TN 37686

ID:iAmMffg3tW0ghNx_OkVH7Bz_9Ds-aguhp7_bdegnQUyuoBxp742RzpKINMlvg2WVBwyMx7N -0-10-8 0-10-8 2-0-4 1-0-0 1-0-4

Scale = 1:14.7



0-10-8 2-0-4

| Plate Off | sets (X,Y) | [C:0-3-8,0-2-0] | | |
|-----------|------------|----------------------|------------|---|
| LOADIN | G (psf) | SPACING- 2-0-0 | CSI. | DEFL. in (loc) I/defl L/d PLATES GRIP |
| TCLL | 20.Ó | Plate Grip DOL 1.15 | TC 0.27 | Vert(LL) -0.00 G >999 360 MT20 244/190 |
| TCDL | 10.0 | Lumber DOL 1.15 | BC 0.20 | Vert(TL) -0.00 F >999 240 |
| BCLL | 0.0 * | Rep Stress Incr NO | WB 0.02 | Horz(TL) -0.03 D n/a n/a |
| BCDL | 10.0 | Code IRC2009/TPI2007 | (Matrix-M) | Wind(LL) 0.01 F >999 240 Weight: 13 lb FT = 20% |

LUMBER-

TOP CHORD 2x4 SP No.2

BOT CHORD 2x4 SP No.2 WFBS 2x4 SP No 2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 2-0-4 oc purlins, except

end verticals, and 2-0-0 oc purlins: C-D.

BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

(lb/size) D=41/Mechanical, G=165/0-5-8 (min. 0-1-8), E=29/Mechanical REACTIONS.

Max Horz G=255(LC 6)

Max Uplift D=-80(LC 7), G=-116(LC 6), E=-111(LC 6) Max Grav D=44(LC 12), G=165(LC 1), E=39(LC 3)

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

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) D except (jt=lb) G=116, E=111.
- 9) This truss is designed in accordance with the 2009 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 12) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 68 lb down and 99 lb up at 1-0-4 on top chord, and 17 lb down and 35 lb up at 1-1-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others
- 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 + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: A-B=-60, B-C=-60, C-D=-60, E-G=-20

Concentrated Loads (lb) Vert: C=-16(B) F=-12(B)



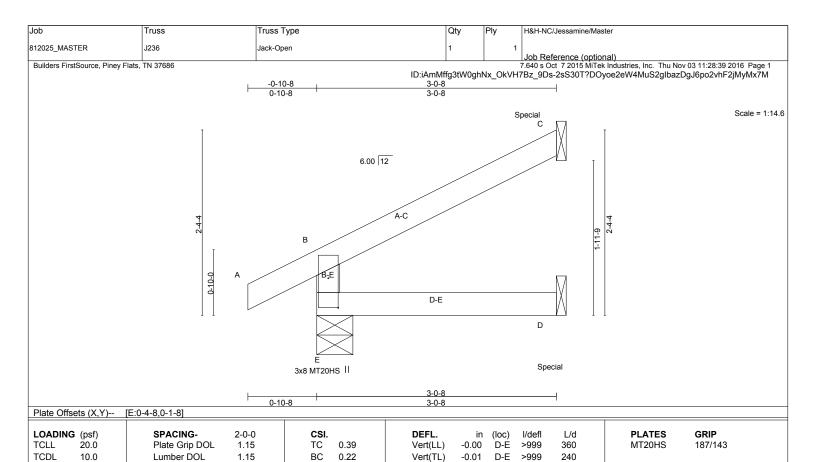
November 3,2016



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

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED WITER REFERENCE FOR SINCE AND SINCE Applicability of design paramenters and proper incorporation of component is responsibility of building designer - not truss engineer/designer. Bracing shown replacements of the state of th





REACTIONS.

BCLL

BCDL

TOP CHORD 2x4 SP No.2

0.0

10.0

BOT CHORD 2x4 SP No.2 2x4 SP No.3 WFBS

TOP CHORD

WB

(Matrix-M)

0.00

-0.01

0.01

С

D-E

Horz(TL)

Wind(LL)

BRACING-

Structural wood sheathing directly applied or 3-0-8 oc purlins, except end verticals.

Weight: 12 lb

FT = 20%

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

n/a

>999

n/a

240

 $\hbox{(lb/size)} \quad \hbox{E=}186/0\text{-}5\text{-}8 \ \hbox{(min. 0-1-8), C=}72/\hbox{Mechanical, D=}22/\hbox{Mechanical}$

YES

Max Horz E=211(LC 8)

Max Uplift E=-154(LC 8), C=-128(LC 8), D=-25(LC 8) Max Grav E=186(LC 1), C=72(LC 1), D=53(LC 3)

Rep Stress Incr

Code IRC2009/TPI2007

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

TOP CHORD B-E=-159/283

- 1) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) zone; end vertical left 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 basic load combinations, which include cases with reductions for multiple concurrent live loads.
- 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) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) D except (jt=lb) E=154, C=128.
- 7) This truss is designed in accordance with the 2009 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 8) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
- 9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 146 lb down and 45 lb up at 2-11-12 on top chord, and 15 lb up at 2-11-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others
- 10) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: A-B=-60, B-C=-60, D-E=-20

Concentrated Loads (lb)

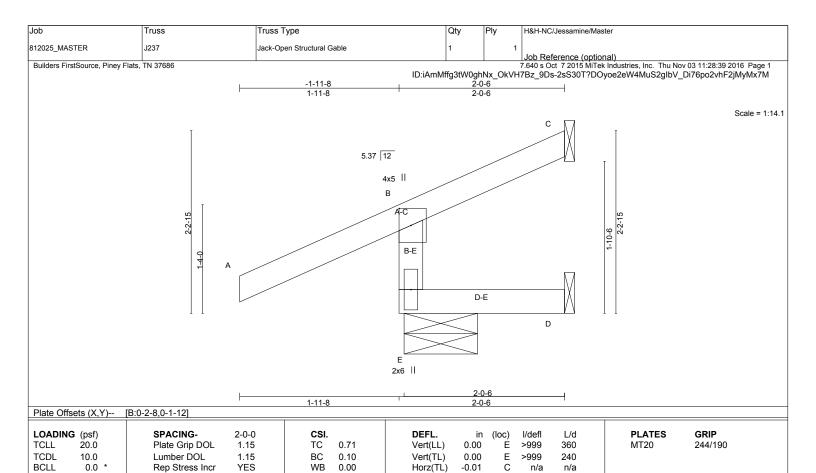
Vert: D=8(F)



November 3,2016







BCDL

TOP CHORD 2x4 SP No.2

10.0

BOT CHORD 2x4 SP No.2 2x4 SP No.3 WFBS

Wind(LL) BRACING-

TOP CHORD

0.00

Structural wood sheathing directly applied or 2-0-6 oc purlins, except

Weight: 11 lb

FT = 20%

end verticals.

D-E

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

240

>999

REACTIONS.

(lb/size) C=-1/Mechanical, E=272/0-10-13 (min. 0-1-8), D=1/Mechanical

Max Horz E=185(LC 8)

Max Uplift C=-38(LC 9), E=-323(LC 8), D=-8(LC 8) Max Grav C=4(LC 6), E=272(LC 1), D=29(LC 3)

Code IRC2009/TPI2007

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

TOP CHORD B-E=-236/468

1) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) zone; cantilever left exposed; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

(Matrix-M)

- 2) 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.
- 3) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
- 4) Gable studs spaced at 2-0-0 oc.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) C, D except (jt=lb)
- 9) This truss is designed in accordance with the 2009 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.

LOAD CASE(S) Standard







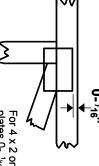


Symbols

PLATE LOCATION AND ORIENTATION



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



edge of truss. plates 0- ¹/₁₀" from outside or 4 x 2 orientation, locate

connector plates required direction of slots in This symbol indicates the

ω

0

O

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

PLATE SIZE

4 × 4

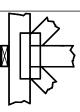
to slots. Second dimension is the length parallel to slots. width measured perpendicular The first dimension is the plate

LATERAL BRACING LOCATION



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

BEARING



number where bearings occur reaction section indicates joint Indicates location where bearings (supports) occur. Icons vary but

Industry Standards:

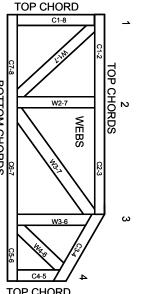
DSB-89:

ANSI/TPI1: Plate Connected Wood Truss Construction. National Design Specification for Metal

installing & Bracing of Metal Plate Guide to Good Practice for Handling, Design Standard for Bracing.

Building Component Safety Information,

Connected Wood Trusses



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

PRODUCT CODE APPROVALS

ICC-ES Reports:

ESR-1311, ESR-1352, ER-5243, 9604B, 9730, 95-43, 96-31, 9667A NER-487, NER-561 95110, 84-32, 96-67, ER-3907, 9432A

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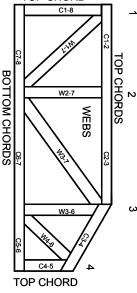


PO Box 3850

Sumter SC 29151 552 S Pike W

Numbering System

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



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



General Safety Notes

Damage or Personal Injury Failure to Follow Could Cause Property

- Ņ Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI1. Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves
- ω Never exceed the design loading shown and never stack materials on inadequately braced trusses. bracing should be considered

may require bracing, or alternative T, I, or Eliminator

- 4. designer, erection supervisor, property owner and all other interested parties. Provide copies of this truss design to the building
- Cut members to bear tightly against each other

5

- Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI 1.
- Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
- Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.

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Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.

9

- <u>,</u> Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
- Plate type, size, orientation and location dimensions indicated are minimum plating requirements
- Lumber used shall be of the species and size, and in all respects, equal to or better than that
- Top chords must be sheathed or purlins provided at spacing indicated on design.
- Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted
- Connections not shown are the responsibility of others.
- Do not cut or alter truss member or plate without prior approval of an engineer.
- 17. Install and load vertically unless indicated otherwise.
- Use of green or treated lumber may pose unacceptable project engineer before use. environmental, health or performance risks. Consult with
- Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
- 20. Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria