

Trenco
818 Soundside Rd
Edenton, NC 27932

Re: Master
H&H/Kent/

The truss drawing(s) referenced below have been prepared by Truss Engineering Co. under my direct supervision based on the parameters provided by Builders FirstSource (Albermarle,NC).

Pages or sheets covered by this seal: E13078425 thru E13078467

My license renewal date for the state of North Carolina is December 31, 2019.

North Carolina COA: C-0844



May 22,2019

Gilbert, Eric

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

| | | | | | | |
|--------|-------|------------|-----|-----|--------------------------|-----------|
| Job | Truss | Truss Type | Qty | Ply | H&H/Kent/ | E13078425 |
| Master | A01 | GABLE | 5 | 1 | Job Reference (optional) | |

Builders FirstSource (Albermarle), Albermarle, NC - 28001,

8.240 s May 13 2019 MITek Industries, Inc. Wed May 22 09:36:41 2019 Page 1

ID:h_gUcblDxiXoqL1mPMfncDza12N-Sy8wne2mL0eIFtSLeWDC2nDVZOpY00N?S_8pYDzE_Y4



3x6 =

Scale = 1:46.5

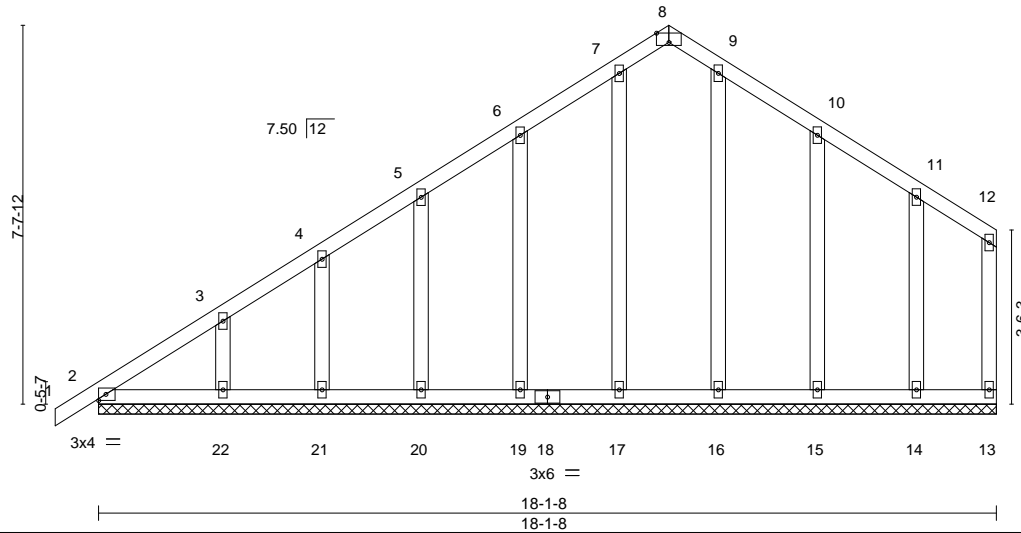


Plate Offsets (X,Y)-- [8:0-3-0,Edge]

| LOADING (psf) | SPACING- | CSI. | DEFL. | in (loc) | l/defl | L/d | PLATES | GRIP |
|---------------|----------------------|----------|----------------|----------|--------|-----|----------------|----------|
| TCLL 20.0 | 2-0-0 | TC 0.12 | Vert(LL) -0.00 | 1 | n/r | 120 | MT20 | 244/190 |
| TCDL 10.0 | Plate Grip DOL 1.15 | BC 0.04 | Vert(CT) 0.00 | 1 | n/r | 120 | | |
| BCLL 0.0 * | Lumber DOL 1.15 | WB 0.13 | Horz(CT) 0.00 | 13 | n/a | n/a | | |
| BCDL 10.0 | Rep Stress Incr YES | Matrix-S | | | | | | |
| | Code IRC2015/TPI2014 | | | | | | Weight: 118 lb | FT = 20% |

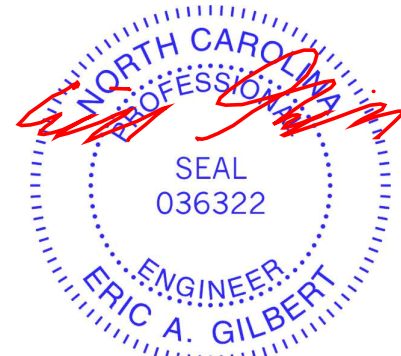
LUMBER-
 TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2
 WEBS 2x4 SP No.3
 OTHERS 2x4 SP No.3

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

REACTIONS. All bearings 18-1-8.
 (lb) - Max Horz 2=239(LC 12)
 Max Uplift All uplift 100 lb or less at joint(s) 13, 2, 17, 19, 20, 21, 14 except 22=-104(LC 12), 15=-105(LC 13)
 Max Grav All reactions 250 lb or less at joint(s) 13, 2, 17, 19, 20, 21, 22, 16, 15, 14

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

- NOTES-** (11)
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) 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
 - 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.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - Gable studs spaced at 2-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - All bearings are assumed to be User Defined crushing capacity of 565 psi.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 13, 2, 17, 19, 20, 21, 14 except (jt=lb) 22=104, 15=105.
 - 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.



May 22, 2019

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.
 Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

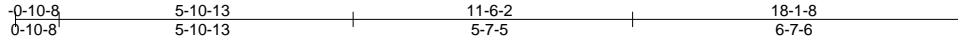
ENGINEERING BY
TRENCO
 A MITek Affiliate
 818 Soundside Road
 Edenton, NC 27932

| | | | | | | |
|--------|-------|------------|-----|-----|--------------------------|-----------|
| Job | Truss | Truss Type | Qty | Ply | H&H/Kent/ | E13078426 |
| Master | A02 | Common | 63 | 1 | Job Reference (optional) | |

Builders FirstSource (Albermarle), Albermarle, NC - 28001,

8.240 s May 13 2019 MITek Industries, Inc. Wed May 22 09:36:42 2019 Page 1

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5x6 =

Scale = 1:46.3

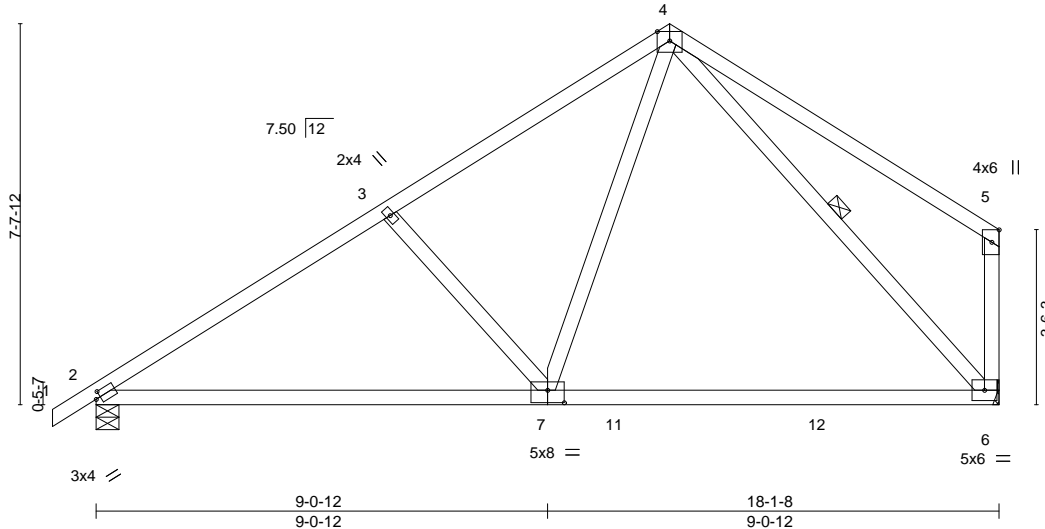


Plate Offsets (X,Y)-- [2:0-1-2,0-1-8], [5:0-3-0,Edge], [7:0-4-0,0-3-0]

| LOADING (psf) | SPACING- | CSI. | DEFL. | in (loc) | l/defl | L/d | PLATES | GRIP |
|---------------|----------------------|-----------|----------------|----------|--------|-----|---------------|----------|
| TCLL 20.0 | 2-0-0 | TC 0.43 | Vert(LL) -0.24 | 6-7 | >904 | 360 | MT20 | 244/190 |
| TCDL 10.0 | Plate Grip DOL 1.15 | BC 0.75 | Vert(CT) -0.36 | 6-7 | >599 | 240 | | |
| BCLL 0.0 * | Lumber DOL 1.15 | WB 0.28 | Horz(CT) 0.02 | 6 | n/a | n/a | | |
| BCDL 10.0 | Rep Stress Incr YES | Matrix-AS | Wind(LL) 0.06 | 7-10 | >999 | 240 | Weight: 97 lb | FT = 20% |
| | Code IRC2015/TPI2014 | | | | | | | |

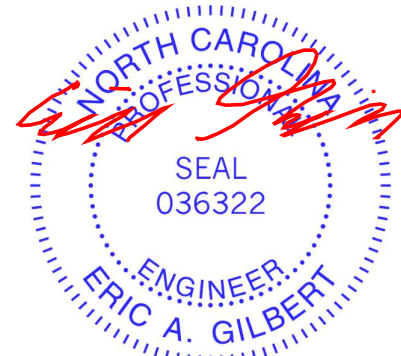
LUMBER-
 TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2
 WEBS 2x4 SP No.3 *Except*
 5-6: 2x4 SP No.2

BRACING-
 TOP CHORD Structural wood sheathing directly applied, except end verticals.
 BOT CHORD Rigid ceiling directly applied.
 WEBS 1 Row at midpt 4-6

REACTIONS. (lb/size) 2=773/0-5-8, 6=718/Mechanical
 Max Horz 2=238(LC 12)
 Max Uplift 2=-149(LC 12), 6=-117(LC 12)
 Max Grav 2=773(LC 1), 6=737(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-993/241, 3-4=-791/242, 5-6=-277/171
 BOT CHORD 2-7=-285/895, 6-7=-87/470
 WEBS 3-7=-372/260, 4-7=-89/594, 4-6=-601/132

- NOTES-** (9)
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) 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 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, with BCDL = 10.0psf.
 - 5) All bearings are assumed to be User Defined crushing capacity of 565 psi.
 - 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) 2=149, 6=117.
 - 8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
 - 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.



May 22, 2019

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818 Soundside Road
 Edenton, NC 27932

| | | | | | | |
|---------------|--------------|-----------------------------|----------|----------|---------------------------------------|-----------|
| Job Master | Truss A03 | Truss Type Common Girder | Qty 2 | Ply 2 | H&H/Kent/ Job Reference (optional) | E13078427 |
|---------------|--------------|-----------------------------|----------|----------|---------------------------------------|-----------|

Builders FirstSource (Albermarle), Albermarle, NC - 28001,

8.240 s May 13 2019 MITek Industries, Inc. Wed May 22 09:36:44 2019 Page 1
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4x6 =

Scale: 1/4"=1'

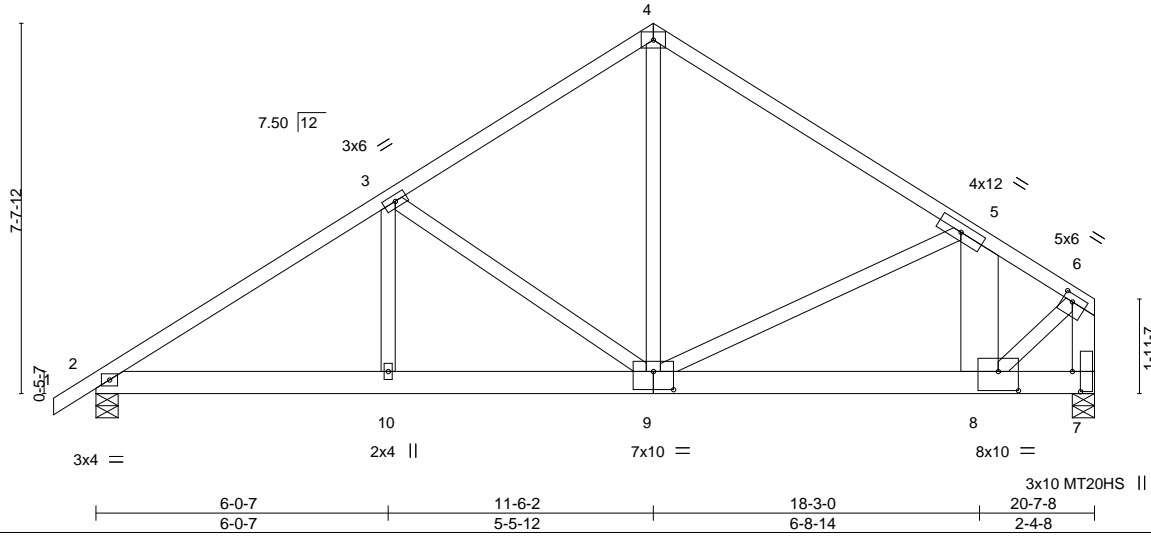


Plate Offsets (X,Y)-- [6:0-2-8,0-1-12], [7:0-5-0,0-2-0], [8:0-5-0,0-4-12], [9:0-5-0,0-4-8]

| LOADING (psf) | SPACING- | CSL | DEFL. | in (loc) | l/defl | L/d | PLATES | GRIP |
|---------------|----------------------|-----------|----------------|----------|--------|-----|----------------|----------|
| TCLL 20.0 | Plate Grip DOL 1.15 | TC 0.47 | Vert(LL) -0.04 | 8-9 | >999 | 360 | MT20 | 244/190 |
| TCDL 10.0 | Lumber DOL 1.15 | BC 0.68 | Vert(CT) -0.10 | 8-9 | >999 | 240 | MT20HS | 187/143 |
| BCLL 0.0 * | Rep Stress Incr NO | WB 0.79 | Horz(CT) 0.03 | 7 | n/a | n/a | | |
| BCDL 10.0 | Code IRC2015/TPI2014 | Matrix-MS | Wind(LL) 0.03 | 8-9 | >999 | 240 | | |
| | | | | | | | Weight: 278 lb | FT = 20% |

LUMBER-

TOP CHORD 2x4 SP No.2
 BOT CHORD 2x6 SP No.2
 WEBS 2x4 SP No.2 *Except*
 5-8: 2x10 SP DSS, 6-7: 2x6 SP No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-9-13 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(lb/size) 2=1666/0-5-8, 7=7586/0-5-8
 Max Horz 2=170(LC 5)
 Max Uplift 2=58(LC 8), 7=143(LC 9)

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

TOP CHORD 2-3=-2670/91, 3-4=-2294/116, 4-5=-2314/118, 5-6=-6174/127, 6-7=-2782/130
 BOT CHORD 2-10=-115/2194, 9-10=-115/2194, 8-9=-110/5240
 WEBS 3-9=-490/167, 4-9=-29/1979, 5-9=-3778/187, 5-8=-240/3482, 6-8=-149/6460

NOTES- (11)

- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
 Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc.
 Bottom chords connected as follows: 2x6 - 3 rows staggered at 0-2-0 oc.
 Webs connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x10 - 2 rows staggered at 0-9-0 oc.
- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); end vertical left exposed; Lumber DOL=1.60 plate grip DOL=1.60
- All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be User Defined crushing capacity of 565 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2 except (jt=lb) 7=143.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 7567 lb down and 144 lb up at 18-3-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 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



May 22, 2019

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



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 Edenton, NC 27932

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|--------|-------|---------------|-----|----------|--------------------------|-----------|
| Job | Truss | Truss Type | Qty | Ply | H&H/Kent/ | E13078427 |
| Master | A03 | Common Girder | 2 | 2 | Job Reference (optional) | |

Builders FirstSource (Albermarle), Albemarle, NC - 28001,

8.240 s May 13 2019 MiTek Industries, Inc. Wed May 22 09:36:44 2019 Page 2
 ID:h_gUcblDxiXoqL1mPMfncDza12N-tXq2Pf4eex1t6KBwJfmvgQrvFchJbDpR8yMT9YzE_Y1

LOAD CASE(S) Standard

Uniform Loads (plf)

Vert: 1-4=-60, 4-6=-60, 7-11=-20

Concentrated Loads (lb)

Vert: 8=-7567(F)

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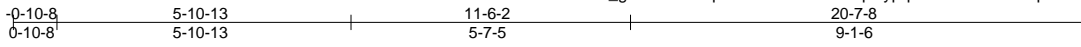


818 Soundside Road
 Edenton, NC 27932

| | | | | | | |
|--------|-------|------------|-----|-----|--------------------------|-----------|
| Job | Truss | Truss Type | Qty | Ply | H&H/Kent/ | E13078428 |
| Master | A04 | Common | 63 | 1 | Job Reference (optional) | |

Builders FirstSource (Albermarle), Albermarle, NC - 28001,

8.240 s May 13 2019 MITEK Industries, Inc. Wed May 22 09:36:46 2019 Page 1
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5x6 ||

Scale = 1:46.2

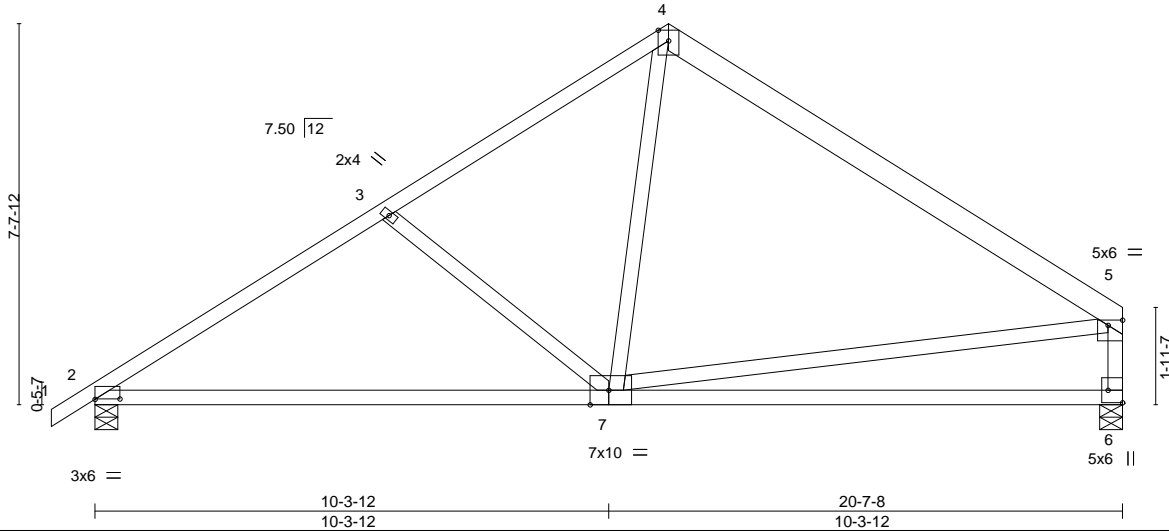


Plate Offsets (X,Y)-- [2:0-6-0,0-0-2], [5:Edge,0-1-4], [6:Edge,0-3-8], [7:0-4-8,Edge]

| LOADING (psf) | SPACING- | CSL | DEFL. | in (loc) | l/defl | L/d | PLATES | GRIP |
|---------------|----------------------|-----------|----------------|----------|--------|-----|----------------|----------|
| TCLL 20.0 | 2-0-0 | TC 0.56 | Vert(LL) -0.19 | 6-7 | >999 | 360 | MT20 | 244/190 |
| TCDL 10.0 | Plate Grip DOL 1.15 | BC 0.96 | Vert(CT) -0.38 | 6-7 | >643 | 240 | | |
| BCLL 0.0 * | Lumber DOL 1.15 | WB 0.26 | Horz(CT) 0.02 | 6 | n/a | n/a | | |
| BCDL 10.0 | Rep Stress Incr YES | Matrix-AS | Wind(LL) 0.07 | 7-10 | >999 | 240 | | |
| | Code IRC2015/TPI2014 | | | | | | Weight: 114 lb | FT = 20% |

LUMBER-

TOP CHORD 2x4 SP No.2 *Except*
4-5: 2x6 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3 *Except*
5-6: 2x4 SP No.2

BRACING-

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

REACTIONS.

(lb/size) 6=818/0-5-8, 2=873/0-5-8
Max Horz 2=210(LC 9)
Max Uplift 6=-125(LC 13), 2=-168(LC 12)

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

TOP CHORD 2-3=-1142/306, 3-4=-880/271, 4-5=-867/231, 5-6=-725/241
BOT CHORD 2-7=-276/968
WEBS 3-7=-383/259, 4-7=-27/505, 5-7=-67/451

NOTES- (8)

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCCL=6.0psf; BCCL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) 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
- 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.
- All bearings are assumed to be User Defined crushing capacity of 565 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 6=125, 2=168.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 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.



May 22, 2019

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Edenton, NC 27932

| | | | | | | |
|--------|-------|------------|-----|-----|--------------------------|-----------|
| Job | Truss | Truss Type | Qty | Ply | H&H/Kent/ | E13078429 |
| Master | A05 | GABLE | 5 | 1 | Job Reference (optional) | |

Builders FirstSource (Albemarle), Albemarle, NC - 28001,

8.240 s May 13 2019 MiTek Industries, Inc. Wed May 22 09:36:47 2019 Page 1
ID:h_gUcblDxiXoqL1mPMfncDza12N-H6WB1h6XxsPSzovV_nKcl2TVXpstoktrwb7mtzE_Y_



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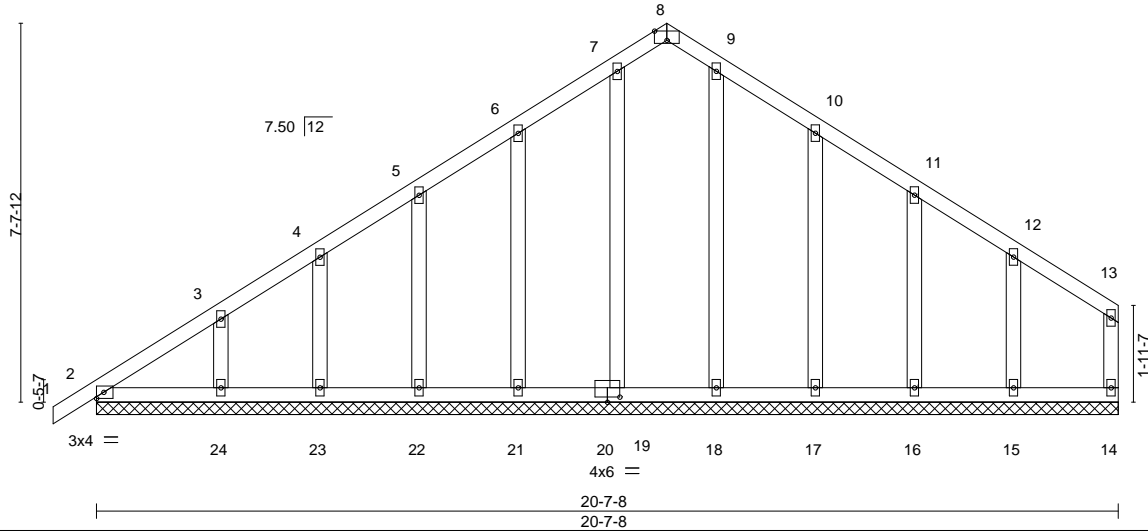


Plate Offsets (X,Y)-- [8:0-3-0,Edge], [19:0-1-12,0-0-0], [20:0-3-0,0-1-4], [20:0-0-0,0-1-12]

| | | | | | | | | | | |
|----------------------|----------------------|-------|------------|--------------|-------|-------|--------|-----|----------------|-------------|
| LOADING (psf) | SPACING- | 2-0-0 | CSL | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
| TCLL 20.0 | Plate Grip DOL | 1.15 | TC 0.15 | Vert(LL) | -0.00 | 1 | n/r | 120 | MT20 | 244/190 |
| TCDL 10.0 | Lumber DOL | 1.15 | BC 0.05 | Vert(CT) | 0.00 | 1 | n/r | 120 | | |
| BCLL 0.0 * | Rep Stress Incr | YES | WB 0.13 | Horz(CT) | 0.00 | 14 | n/a | n/a | | |
| BCDL 10.0 | Code IRC2015/TPI2014 | | Matrix-S | | | | | | Weight: 128 lb | FT = 20% |

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

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

REACTIONS. All bearings 20-7-8.
(lb) - Max Horz 2=211(LC 9)
Max Uplift All uplift 100 lb or less at joint(s) 2, 19, 21, 22, 23, 16 except 24=103(LC 12), 17=117(LC 13), 15=122(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 14, 2, 19, 21, 22, 23, 24, 18, 17, 16, 15

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

- NOTES-** (11)
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) 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
 - 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.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - Gable studs spaced at 2-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - All bearings are assumed to be User Defined crushing capacity of 565 psi.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 19, 21, 22, 23, 16 except (jt=lb) 24=103, 17=117, 15=122.
 - 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.



May 22, 2019

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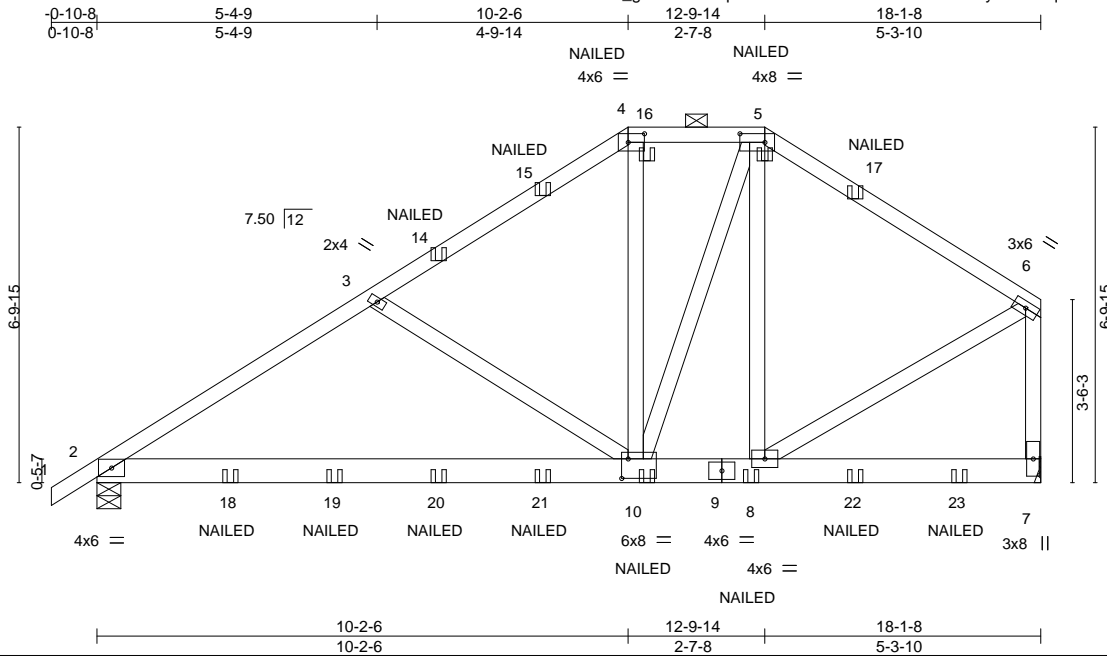


818 Soundside Road
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|--------|-------|------------|-----|-----|-----------|-----------|
| Job | Truss | Truss Type | Qty | Ply | H&H/Kent/ | E13078430 |
| Master | A06 | Hip Girder | 3 | 1 | | |

Builders FirstSource (Albermarle), Albermarle, NC - 28001,

8.240 s May 13 2019 MiTek Industries, Inc. Wed May 22 09:36:48 2019 Page 1
 ID:h_gUcblDXiXoqL1mPMfncDza12N-IJ4ZF179iAXIbyUhYVrrqG0VCD33X7j13aKhHJzE_Xz



Scale = 1:44.2

| | | | | | |
|-----------------------|--|-------------|----------------------------------|----------------|-------------|
| Plate Offsets (X,Y)-- | [4:0-3-12,0-2-0], [5:0-5-12,0-2-0], [10:0-1-8,0-4-8] | | | | |
| 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 0.86 | Vert(LL) 0.26 10-13 >825 240 | MT20 | 244/190 |
| TCDL 10.0 | Lumber DOL 1.15 | BC 0.63 | Vert(CT) -0.38 10-13 >562 240 | | |
| BCLL 0.0 * | Rep Stress Incr NO | WB 0.41 | Horz(CT) 0.01 7 n/a n/a | | |
| BCDL 10.0 | Code IRC2015/TPI2014 | Matrix-MS | | Weight: 125 lb | FT = 20% |

LUMBER-
 TOP CHORD 2x4 SP No.2
 BOT CHORD 2x6 SP DSS *Except*
 7-9: 2x6 SP No.2
 WEBS 2x4 SP No.2

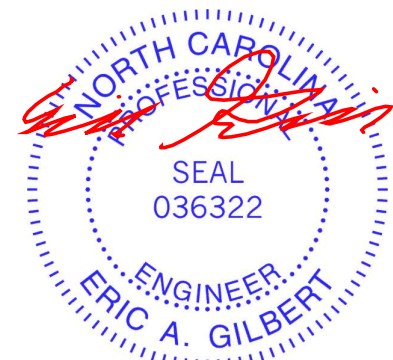
BRACING-
 TOP CHORD Structural wood sheathing directly applied or 2-9-7 oc purlins, except end verticals, and 2-0-0 oc purlins (5-3-15 max.): 4-5.
 BOT CHORD Rigid ceiling directly applied or 8-11-13 oc bracing.

REACTIONS. (lb/size) 2=1490/0-5-8, 7=1490/Mechanical
 Max Horz 2=223(LC 8)
 Max Uplift 2=-597(LC 8), 7=-695(LC 8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-1783/806, 3-4=-1479/717, 4-5=-1175/656, 5-6=-1140/598, 6-7=-1231/606
 BOT CHORD 2-10=-809/1504, 8-10=-444/882
 WEBS 3-10=-405/284, 4-10=-158/455, 5-10=-363/854, 5-8=-580/306, 6-8=-505/991

- NOTES-** (12)
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; end vertical left exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - 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) All bearings are assumed to be User Defined crushing capacity of 565 psi.
 - 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) 2=597, 7=695.
 - 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - 10) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidelines.
 - 11) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).
 - 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
 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 1-4=-60, 4-5=-60, 5-6=-60, 7-11=-20



May 22, 2019

Continued on page 2

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|--------|-------|------------|-----|-----|--------------------------|-----------|
| Job | Truss | Truss Type | Qty | Ply | H&H/Kent/ | E13078430 |
| Master | A06 | Hip Girder | 3 | 1 | Job Reference (optional) | |

Builders FirstSource (Albermarle), Albermarle, NC - 28001,

8.240 s May 13 2019 MiTek Industries, Inc. Wed May 22 09:36:49 2019 Page 2
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LOAD CASE(S) Standard

Concentrated Loads (lb)

Vert: 5=-117(F) 10=-37(F) 8=-37(F) 14=-8(F) 16=-117(F) 18=-241(F) 19=-210(F) 20=-146(F) 21=-184(F) 22=-182(F) 23=-210(F)

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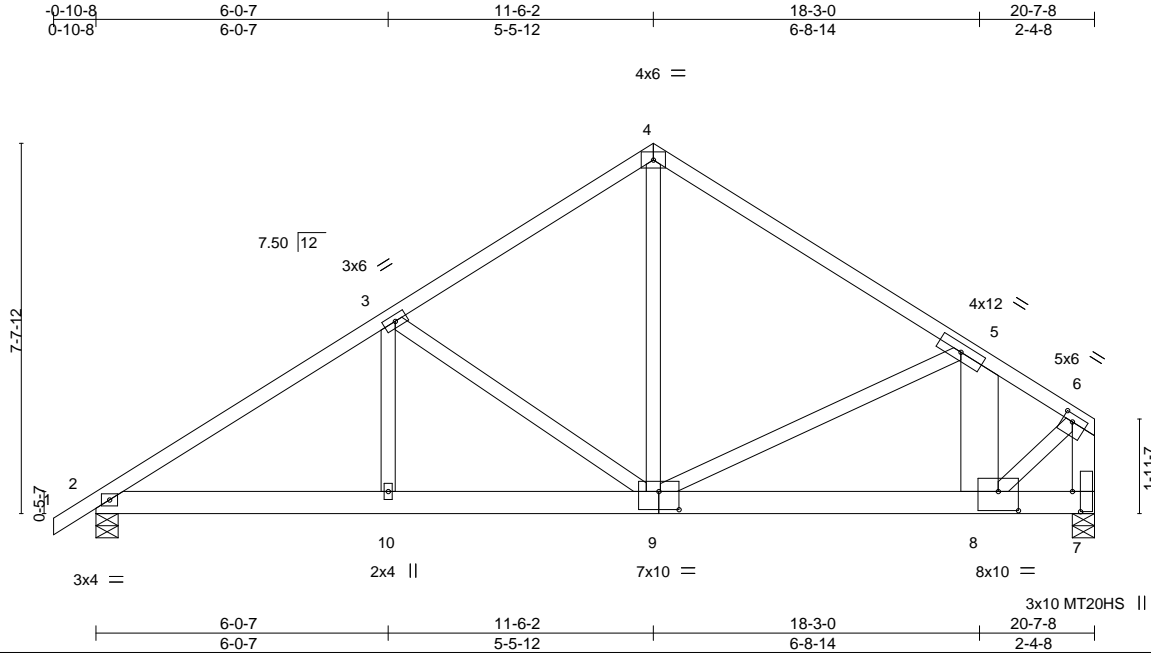


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| | | | | | | |
|---------------|--------------|-----------------------------|----------|----------|---------------------------------------|-----------|
| Job Master | Truss A07 | Truss Type Common Girder | Qty 3 | Ply 2 | H&H/Kent/ Job Reference (optional) | E13078431 |
|---------------|--------------|-----------------------------|----------|----------|---------------------------------------|-----------|

Builders FirstSource (Albermarle), Albermarle, NC - 28001,

8.240 s May 13 2019 MITek Industries, Inc. Wed May 22 09:36:50 2019 Page 1
ID:h_gUcblDxiXoqL1mPMfncDza12N-hhBJf9PDnn0qFe3fvJvh5xf0kb?xCKXtpoLCzE_Xx



Scale: 1/4"=1'

| | | | | | |
|-----------------------|--|-------------|----------------------------------|---------------|-------------------------|
| Plate Offsets (X,Y)-- | [6:0-2-8,0-1-12], [7:0-5-0,0-2-0], [8:0-5-0,0-4-12], [9:0-5-0,0-4-8] | | | | |
| 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 0.48 | Vert(LL) -0.04 8-9 >999 360 | MT20 | 244/190 |
| TCDL 10.0 | Lumber DOL 1.15 | BC 0.69 | Vert(CT) -0.10 8-9 >999 240 | MT20HS | 187/143 |
| BCLL 0.0 * | Rep Stress Incr NO | WB 0.80 | Horz(CT) 0.03 7 n/a n/a | | |
| BCDL 10.0 | Code IRC2015/TPI2014 | Matrix-MS | Wind(LL) 0.04 8-9 >999 240 | | Weight: 278 lb FT = 20% |

LUMBER-

TOP CHORD 2x4 SP No.2
 BOT CHORD 2x6 SP No.2
 WEBS 2x4 SP No.2 *Except*
 5-8: 2x10 SP DSS, 6-7: 2x6 SP No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-9-8 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(lb/size) 2=1673/0-5-8, 7=7648/0-5-8
 Max Horz =170(LC 5)
 Max Uplift 2=-75(LC 8), 7=-285(LC 9)

FORCES.

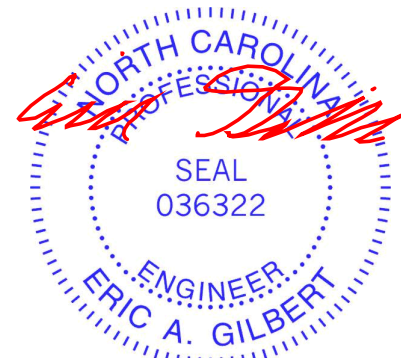
(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-2684/121, 3-4=-2301/148, 4-5=-2358/150, 5-6=-6223/243, 6-7=-7340/266
 BOT CHORD 2-10=-141/2206, 9-10=-141/2206, 8-9=-208/5282
 WEBS 3-9=-495/167, 4-9=-62/2007, 5-9=-3792/264, 5-8=-319/3512, 6-8=-270/6511

NOTES- (11)

- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
 Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc.
 Bottom chords connected as follows: 2x6 - 3 rows staggered at 0-2-0 oc.
 Webs connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x10 - 2 rows staggered at 0-9-0 oc.
- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); end vertical left exposed; Lumber DOL=1.60 plate grip DOL=1.60
- All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be User Defined crushing capacity of 565 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2 except (jt=lb) 7=285.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 7637 lb down and 303 lb up at 18-3-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 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



May 22, 2019

Continued on page 2

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|--------|-------|---------------|-----|----------|--------------------------|-----------|
| Job | Truss | Truss Type | Qty | Ply | H&H/Kent/ | E13078431 |
| Master | A07 | Common Girder | 3 | 2 | Job Reference (optional) | |

Builders FirstSource (Albermarle), Albemarle, NC - 28001,

8.240 s May 13 2019 MiTek Industries, Inc. Wed May 22 09:36:50 2019 Page 2
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LOAD CASE(S) Standard

Uniform Loads (plf)

Vert: 1-4=-60, 4-6=-60, 7-11=-20

Concentrated Loads (lb)

Vert: 8=-7637(F)

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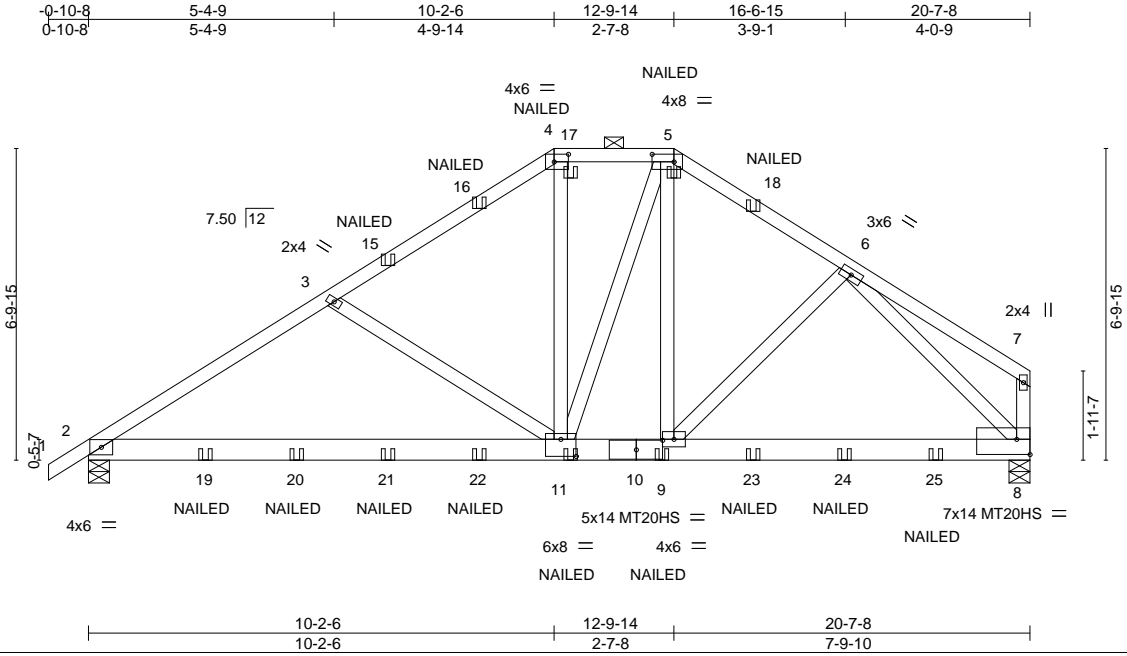
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| | | | | | | |
|--------|-------|------------|-----|-----|-----------|-----------|
| Job | Truss | Truss Type | Qty | Ply | H&H/Kent/ | E13078432 |
| Master | A08 | Hip Girder | 3 | 1 | | |

Builders FirstSource (Albermarle), Albermarle, NC - 28001,

8.240 s May 13 2019 MITek Industries, Inc. Wed May 22 09:36:52 2019 Page 1

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| | |
|-----------------------|---|
| Plate Offsets (X,Y)-- | [4:0-3-12,0-2-0], [5:0-5-12,0-2-0], [8:Edge,0-4-0], [10:0-6-15,0-2-8], [11:0-4-0,0-4-8] |
|-----------------------|---|

| | | | | | | | | | |
|----------------------|----------------------|-------|-------------|--------------|-------------|--------|-----|----------------|-------------|
| 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 0.90 | Vert(LL) | 0.27 11-14 | >909 | 240 | MT20 | 244/190 |
| TCDL 10.0 | Lumber DOL | 1.15 | BC 0.98 | Vert(CT) | -0.40 11-14 | >620 | 240 | MT20HS | 187/143 |
| BCLL 0.0 * | Rep Stress Incr | NO | WB 0.79 | Horz(CT) | 0.03 8 | n/a | n/a | | |
| BCDL 10.0 | Code IRC2015/TPI2014 | | Matrix-MS | | | | | | |
| | | | | | | | | Weight: 139 lb | FT = 20% |

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

REACTIONS. (lb/size) 2=1704/0-5-8, 8=1687/0-5-8
Max Horz 2=187(LC 5)
Max Uplift 2=694(LC 8), 8=718(LC 9)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2177/986, 3-4=-1875/897, 4-5=-1515/812, 5-6=-1670/847, 6-7=-263/147
BOT CHORD 2-11=-922/1837, 9-11=-613/1358, 8-9=-545/1229
WEBS 3-11=-403/282, 4-11=-245/648, 5-11=-214/487, 6-9=-247/344, 6-8=-1537/707

- NOTES-** (12)
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; end vertical left exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - All plates are MT20 plates unless otherwise indicated.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - All bearings are assumed to be User Defined crushing capacity of 565 psi.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=694, 8=718.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidelines.
 - In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).
 - 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: 1-4=-60, 4-5=-60, 5-7=-60, 8-12=-20



May 22, 2019

Continued on page 2

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| | | | | | | |
|--------|-------|------------|-----|-----|--------------------------|-----------|
| Job | Truss | Truss Type | Qty | Ply | H&H/Kent/ | E13078432 |
| Master | A08 | Hip Girder | 3 | 1 | Job Reference (optional) | |

Builders FirstSource (Albermarle), Albermarle, NC - 28001,

8.240 s May 13 2019 MiTek Industries, Inc. Wed May 22 09:36:52 2019 Page 2
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LOAD CASE(S) Standard

Concentrated Loads (lb)

Vert: 5=-117(B) 11=-37(B) 9=-37(B) 15=-8(B) 17=-117(B) 19=-241(B) 20=-210(B) 21=-146(B) 22=-184(B) 23=-182(B) 24=-210(B) 25=-210(B)

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

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| | | | | | | |
|---------------|--------------|-----------------------------|----------|----------|---------------------------------------|-----------|
| Job Master | Truss A09 | Truss Type Common Girder | Qty 3 | Ply 2 | H&H/Kent/ Job Reference (optional) | E13078433 |
|---------------|--------------|-----------------------------|----------|----------|---------------------------------------|-----------|

Builders FirstSource (Albermarle), Albermarle, NC - 28001,

8.240 s May 13 2019 MITek Industries, Inc. Wed May 22 09:36:53 2019 Page 1

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4x6 =

Scale: 1/4"=1'

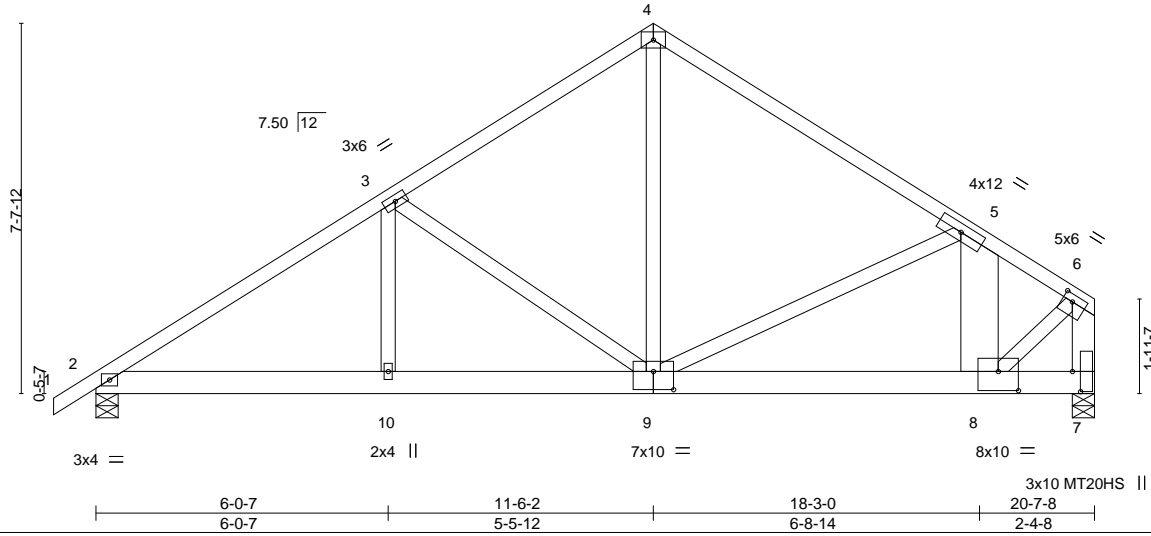


Plate Offsets (X,Y)-- [6:0-2-8,0-1-12], [7:0-5-0,0-2-0], [8:0-5-0,0-4-12], [9:0-5-0,0-4-8]

| | | | | | | | | | |
|----------------------|----------------------|-------|-------------|--------------|----------|--------|------|----------------|-------------|
| 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 0.47 | Vert(LL) | -0.04 | 8-9 | >999 | MT20 | 244/190 |
| TCDL 10.0 | Lumber DOL | 1.15 | BC 0.68 | Vert(CT) | -0.10 | 8-9 | >999 | MT20HS | 187/143 |
| BCLL 0.0 * | Rep Stress Incr | NO | WB 0.79 | Horz(CT) | 0.03 | 7 | n/a | | |
| BCDL 10.0 | Code IRC2015/TPI2014 | | Matrix-MS | Wind(LL) | 0.03 | 8-9 | >999 | | |
| | | | | | | | | Weight: 278 lb | FT = 20% |

LUMBER-

TOP CHORD 2x4 SP No.2
 BOT CHORD 2x6 SP No.2
 WEBS 2x4 SP No.2 *Except*
 5-8: 2x10 SP DSS, 6-7: 2x6 SP No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-9-15 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(lb/size) 2=1662/0-5-8, 7=7554/0-5-8
 Max Horz =194(LC 7)
 Max Uplift 2=-62(LC 8), 7=-166(LC 9)

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

TOP CHORD 2-3=-2663/98, 3-4=-2287/120, 4-5=-2307/125, 5-6=-6148/142, 6-7=-7252/151
 BOT CHORD 2-10=-93/2188, 9-10=-93/2188, 8-9=-135/5219
 WEBS 3-9=-490/167, 4-9=-37/1972, 5-9=-3761/206, 5-8=-242/3465, 6-8=-172/6434

NOTES- (11)

- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
 Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc.
 Bottom chords connected as follows: 2x6 - 3 rows staggered at 0-2-0 oc.
 Webs connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x10 - 2 rows staggered at 0-9-0 oc.
- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be User Defined crushing capacity of 565 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2 except (jt=lb) 7=166.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 7532 lb down and 169 lb up at 18-3-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 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



May 22, 2019

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.
 Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



| | | | | | | |
|--------|-------|---------------|-----|----------|--------------------------|-----------|
| Job | Truss | Truss Type | Qty | Ply | H&H/Kent/ | E13078433 |
| Master | A09 | Common Girder | 3 | 2 | Job Reference (optional) | |

Builders FirstSource (Albermarle), Albermarle, NC - 28001,

8.240 s May 13 2019 MiTek Industries, Inc. Wed May 22 09:36:53 2019 Page 2
 ID:h_gUcblDXiXoqL1mPMfncDza12N-6GtSIkBIW9bhjNeL2R0XJJS_EITC14mDr2SyXzE_Xu

LOAD CASE(S) Standard

Uniform Loads (plf)

Vert: 1-4=-60, 4-6=-60, 7-11=-20

Concentrated Loads (lb)

Vert: 8=-7532(F)

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

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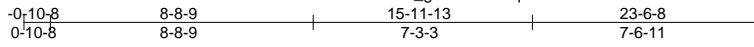
818 Soundside Road
 Edenton, NC 27932

| | | | | | | |
|---------------|--------------|---------------------------|-----------|----------|---------------------------------------|-----------|
| Job Master | Truss B02 | Truss Type JACK-CLOSED | Qty 29 | Ply 1 | H&H/Kent/ Job Reference (optional) | E13078435 |
|---------------|--------------|---------------------------|-----------|----------|---------------------------------------|-----------|

Builders FirstSource (Albermarle), Albermarle, NC - 28001,

8.240 s May 13 2019 MITek Industries, Inc. Wed May 22 09:36:56 2019 Page 1

ID:h_gUcblDxiXoqL1mPMfncDza12N-wrYbwmDApdXAYA5D0A_j9yLu4RoXPdxCvpG6ZszE_Xr



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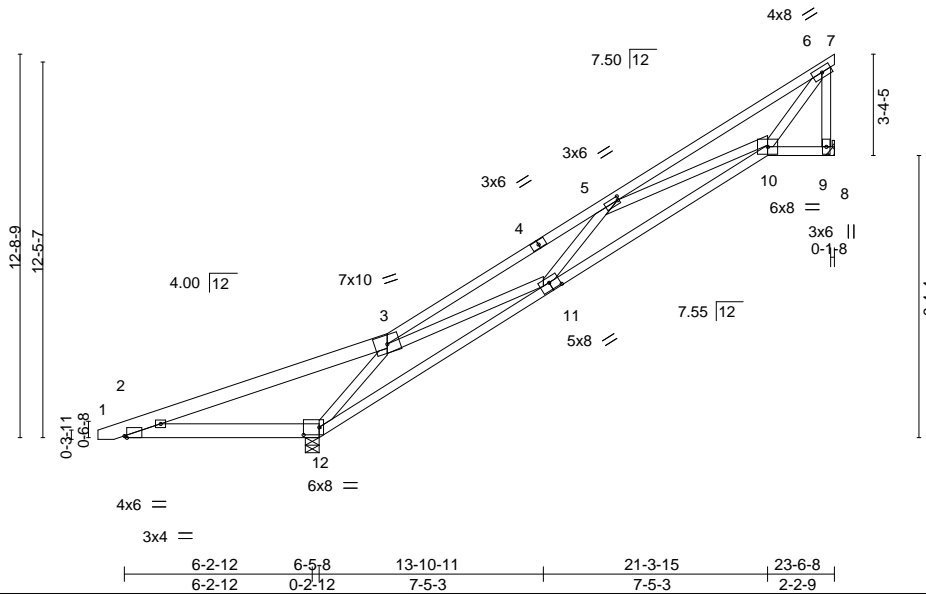


Plate Offsets (X,Y)-- [2:0-0-15,Edge], [5:0-0-8,0-1-8], [11:0-4-0,0-3-0], [12:0-6-4,0-3-0]

| | | | | | | | | | |
|----------------------|----------------------|-------|-------------|--------------|-------------|--------|-----|----------------|-------------|
| LOADING (psf) | SPACING- | 2-0-0 | CSI. | DEFL. | in (loc) | l/defl | L/d | PLATES | GRIP |
| TCLL 20.0 | Plate Grip DOL | 1.15 | TC 0.80 | Vert(LL) | -0.09 11-12 | >999 | 360 | MT20 | 244/190 |
| TCDL 10.0 | Lumber DOL | 1.15 | BC 0.59 | Vert(CT) | -0.21 10-11 | >948 | 240 | | |
| BCLL 0.0 * | Rep Stress Incr | YES | WB 0.85 | Horz(CT) | 0.08 9 | n/a | n/a | | |
| BCDL 10.0 | Code IRC2015/TPI2014 | | Matrix-AS | Wind(LL) | 0.15 10-11 | >999 | 240 | Weight: 132 lb | FT = 20% |

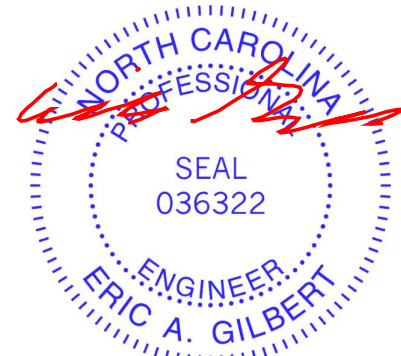
LUMBER-
 TOP CHORD 2x4 SP No.2 *Except*
 1-3: 2x6 SP No.2
 BOT CHORD 2x4 SP No.2 *Except*
 2-12: 2x6 SP No.2
 WEBS 2x4 SP No.3

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

REACTIONS. (lb/size) 12=1340/0-5-8, 9=569/Mechanical
 Max Horz 12=551(LC 12)
 Max Uplift 12=-234(LC 8), 9=-345(LC 12)
 Max Grav 12=1340(LC 1), 9=698(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-889/986, 3-5=-1875/640, 5-6=-832/227, 6-9=-692/322
 BOT CHORD 2-12=-859/918, 11-12=-780/948, 10-11=-1219/2245
 WEBS 3-12=-1343/730, 3-11=-400/1239, 5-11=-418/444, 5-10=-1259/772, 6-10=-377/1043

- NOTES-** (7)
- 1) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) 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) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 4) Refer to girder(s) for truss to truss connections.
 - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 12=234, 9=345.
 - 6) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
 - 7) 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.



May 22, 2019

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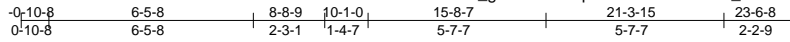
ENGINEERING BY
TRENCO
 A MITek Affiliate
 818 Soundside Road
 Edenton, NC 27932

| | | | | | | |
|--------|-------|--------------------|-----|-----|-----------|-----------|
| Job | Truss | Truss Type | Qty | Ply | H&H/Kent/ | E13078436 |
| Master | B03 | JACK-CLOSED GIRDER | 10 | 1 | | |

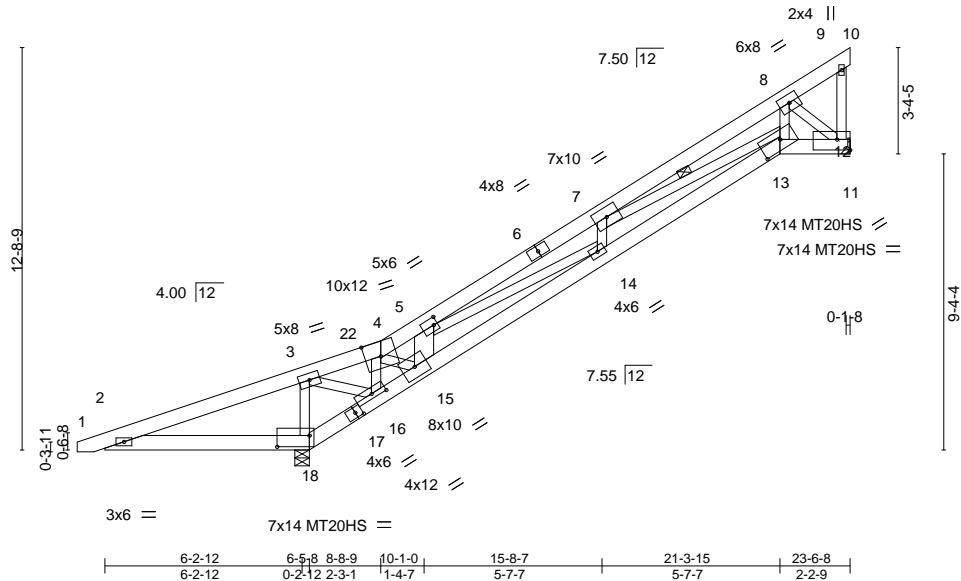
Builders FirstSource (Albermarle), Albermarle, NC - 28001,

8.240 s May 13 2019 MITek Industries, Inc. Wed May 22 09:36:57 2019 Page 1

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Scale = 1:72.8



| | |
|-----------------------|---|
| Plate Offsets (X,Y)-- | [4:0-6-0,Edge], [5:0-1-8,0-2-12], [12:Edge,0-4-0], [13:0-8-0,0-3-12], [16:0-5-8,0-1-12], [17:0-2-9,0-2-0], [18:1-0-4,0-4-4] |
|-----------------------|---|

| | | | | | | | | | |
|----------------------|----------------------|-------|-------------|--------------|----------|--------|------|----------------|-------------|
| 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 0.98 | Vert(LL) | -0.20 | 14-15 | >998 | MT20 | 244/190 |
| TCDL 10.0 | Lumber DOL | 1.15 | BC 0.79 | Vert(CT) | -0.56 | 14-15 | >363 | MT20HS | 187/143 |
| BCLL 0.0 * | Rep Stress Incr | NO | WB 0.83 | Horz(CT) | 0.20 | 12 | n/a | | |
| BCDL 10.0 | Code IRC2015/TPI2014 | | Matrix-AS | Wind(LL) | 0.23 | 14-15 | >875 | | |
| | | | | | | | | Weight: 168 lb | FT = 20% |

| | |
|---|---|
| LUMBER- | BRACING- |
| TOP CHORD 2x6 SP No.1 *Except* 1-4: 2x6 SP No.2 | TOP CHORD Structural wood sheathing directly applied, except end verticals. |
| BOT CHORD 2x6 SP No.2 *Except* 13-17: 2x6 SP DSS | BOT CHORD Rigid ceiling directly applied. |
| WEBS 2x4 SP No.2 *Except* 5-15: 2x8 SP DSS | WEBS 1 Row at midpt 7-13 |

REACTIONS. (lb/size) 18=3329/0-5-8, 12=2476/Mechanical
Max Horz 18=379(LC 12)
Max Grav 18=3329(LC 1), 12=2579(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-724/742, 3-4=-2862/0, 4-5=-6693/0, 5-7=-8928/0, 7-8=-4354/0, 8-9=-350/0
BOT CHORD 2-18=-637/738, 16-18=-1063/294, 15-16=0/3805, 14-15=0/6956, 13-14=0/8586,
12-13=0/3124
WEBS 3-18=-2517/189, 4-15=-248/3393, 5-15=-1931/0, 5-14=0/1663, 7-14=-401/55,
7-13=-4029/0, 8-13=0/3333, 8-12=-4125/0, 4-16=-3535/0, 3-16=0/3312

- NOTES-** (9)
- 1) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) 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) All plates are MT20 plates unless otherwise indicated.
 - 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) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
 - 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1028 lb down and 320 lb up at 10-1-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
 - 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).
 - 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
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15



May 22, 2019

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

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Edenton, NC 27932

| | | | | | | |
|--------|-------|--------------------|-----|-----|--------------------------|-----------|
| Job | Truss | Truss Type | Qty | Ply | H&H/Kent/ | E13078436 |
| Master | B03 | JACK-CLOSED GIRDER | 10 | 1 | Job Reference (optional) | |

Builders FirstSource (Albermarle), Albermarle, NC - 28001,

8.240 s May 13 2019 MiTek Industries, Inc. Wed May 22 09:36:57 2019 Page 2
 ID:h_gUcblDXiXoql1mPMfncDza12N_16z76Eoaxf1AKgQauVyi9u00r5f84PM8T0f5lzE_Xq

LOAD CASE(S) Standard

Uniform Loads (plf)

Vert: 1-22=-60, 4-22=-140(F=-80), 4-5=-140(F=-80), 5-9=-260(F=-200), 9-10=-220(F=-200), 18-19=-20, 13-18=-20, 11-13=-20

Concentrated Loads (lb)

Vert: 15=-1023(F)

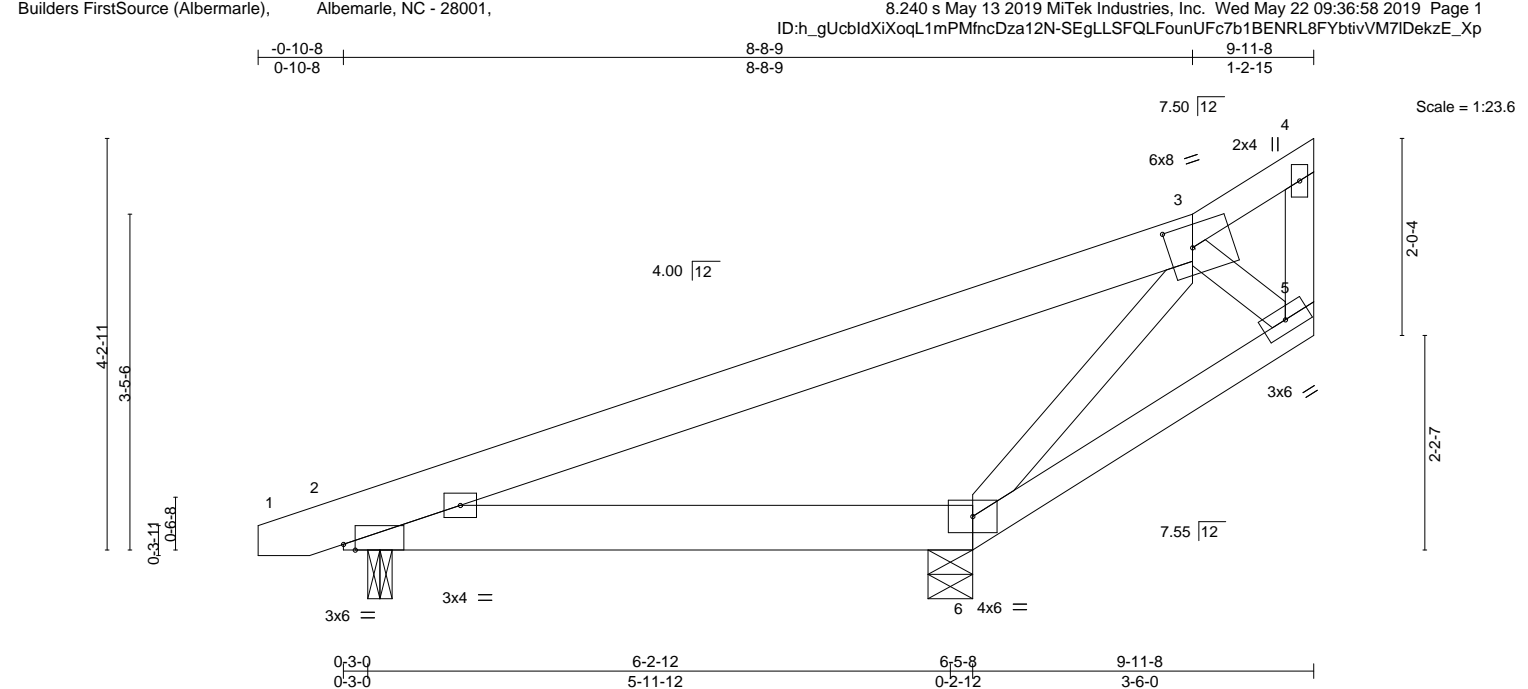
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

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 Edenton, NC 27932

| | | | | | | |
|--|-------|--------------|-----|-----|-----------|--|
| Job | Truss | Truss Type | Qty | Ply | H&H/Kent/ | E13078437 |
| Master | B04 | ROOF SPECIAL | 24 | 1 | | |
| Builders FirstSource (Albermarle), Albermarle, NC - 28001, | | | | | | 8,240 s May 13 2019 MITek Industries, Inc. Wed May 22 09:36:58 2019 Page 1 |
| | | | | | | ID:h_gUcblDxiXoqL1mPMfncDza12N-SEgLLSFQLFounUFc7b1BENRL8FYbtivVM7IDekzE_Xp |



| | | | | | | | | | |
|----------------------|----------------------|-------|-------------|--------------|----------|--------|------|---------------|-------------|
| 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 0.38 | Vert(LL) | 0.07 | 6-9 | >999 | MT20 | 244/190 |
| TCDL 10.0 | Lumber DOL | 1.15 | BC 0.36 | Vert(CT) | -0.06 | 6-9 | >999 | | |
| BCLL 0.0 * | Rep Stress Incr | YES | WB 0.18 | Horz(CT) | -0.00 | 2 | n/a | | |
| BCDL 10.0 | Code IRC2015/TPI2014 | | Matrix-AS | | | | | | |
| | | | | | | | | Weight: 57 lb | FT = 20% |

LUMBER-
TOP CHORD 2x6 SP No.2 *Except*
3-4: 2x4 SP No.2
BOT CHORD 2x6 SP No.2 *Except*
5-6: 2x4 SP No.2
WEBS 2x4 SP No.3

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

REACTIONS. (lb/size) 6=595/0-5-8, 2=227/0-3-0
Max Horz 6=170(LC 12)
Max Uplift 6=201(LC 12), 2=137(LC 8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-275/342
BOT CHORD 2-6=-308/352
WEBS 3-6=-554/415

- NOTES-** (7)
- 1) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) 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 a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 4) Bearings are assumed to be: , Joint 2 User Defined crushing capacity of 565 psi.
 - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 6=201, 2=137.
 - 6) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
 - 7) 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.

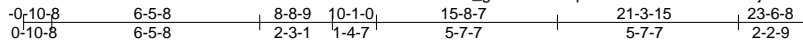


| | | | | | | |
|--------|-------|--------------------|-----|-----|-----------|-----------|
| Job | Truss | Truss Type | Qty | Ply | H&H/Kent/ | E13078438 |
| Master | B05 | JACK-CLOSED GIRDER | 4 | 1 | | |

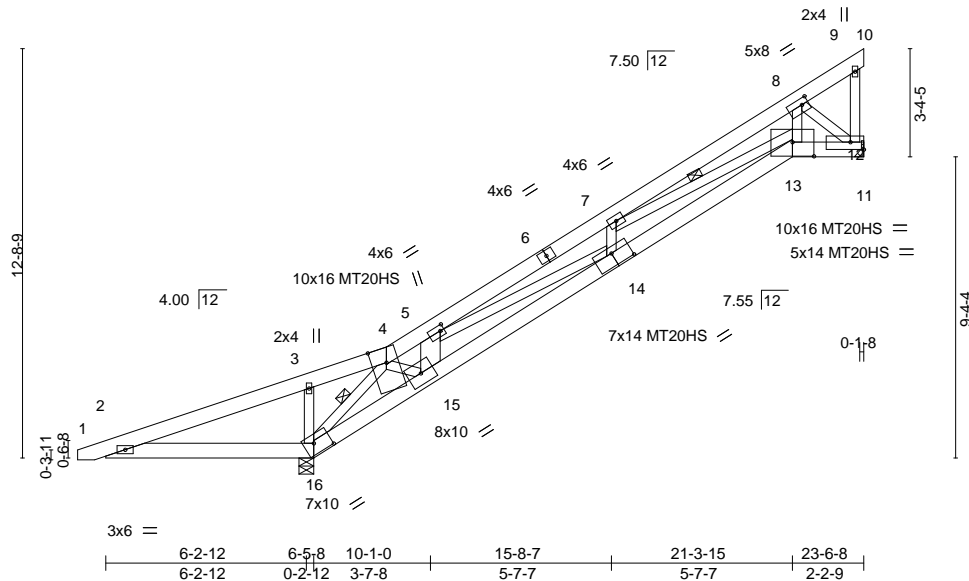
Builders FirstSource (Albermarle), Albermarle, NC - 28001,

8.240 s May 13 2019 MITek Industries, Inc. Wed May 22 09:36:59 2019 Page 1

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Scale = 1:71.6



| | |
|-----------------------|---|
| Plate Offsets (X,Y)-- | [4:0-5-8,Edge], [5:0-1-8,0-2-0], [8:0-2-8,0-2-4], [12:Edge,0-2-12], [13:0-8-0,0-5-4], [14:0-7-0,0-4-12], [16:0-6-4,0-4-0] |
|-----------------------|---|

| | | | | | | | | | |
|----------------------|----------------------|-------|-------------|--------------|----------|--------|------|----------------|-------------|
| LOADING (psf) | SPACING- | 2-0-0 | CSI. | DEFL. | in (loc) | l/defl | L/d | PLATES | GRIP |
| TCLL 20.0 | Plate Grip DOL | 1.15 | TC 0.78 | Vert(LL) | -0.16 | 14-15 | >999 | MT20 | 244/190 |
| TCDL 10.0 | Lumber DOL | 1.15 | BC 1.00 | Vert(CT) | -0.50 | 14-15 | >405 | MT20HS | 187/143 |
| BCLL 0.0 * | Rep Stress Incr | NO | WB 0.91 | Horz(CT) | 0.21 | 12 | n/a | | |
| BCDL 10.0 | Code IRC2015/TPI2014 | | Matrix-AS | Wind(LL) | 0.17 | 14-15 | >999 | | |
| | | | | | | | | Weight: 168 lb | FT = 20% |

| | |
|--|---|
| LUMBER- | BRACING- |
| TOP CHORD 2x6 SP No.2 | TOP CHORD Structural wood sheathing directly applied, except end verticals. |
| BOT CHORD 2x6 SP No.2 *Except* 13-14,14-16: 2x6 SP No.1 | BOT CHORD Rigid ceiling directly applied. |
| WEBS 2x4 SP No.2 *Except* 5-15: 2x8 SP DSS | WEBS 1 Row at midpt 7-13, 4-16 |

REACTIONS. (lb/size) 16=3024/0-5-8, 12=2511/Mechanical
Max Horz 16=379(LC 12)
Max Grav 16=3024(LC 1), 12=2614(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-738/712, 3-4=-650/596, 4-5=-5602/0, 5-7=-6970/0, 7-8=-4051/0
BOT CHORD 2-16=-600/751, 15-16=0/3152, 14-15=0/5998, 13-14=0/6923, 12-13=0/2991
WEBS 3-16=-639/277, 4-15=0/2856, 5-15=-1267/0, 5-14=0/1038, 7-13=-2678/0, 8-13=-11/3893,
8-12=-3930/0, 4-16=-4538/0

- NOTES-** (9)
- 1) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) 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) All plates are MT20 plates unless otherwise indicated.
 - 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) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
 - 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1456 lb down and 191 lb up at 10-1-0, and 1095 lb down and 341 lb up at 21-3-15 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
 - 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).
 - 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
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-4=-60, 4-5=-60, 5-9=-140(F=-80), 9-10=-100(F=-80), 16-17=-20, 13-16=-20, 11-13=-20



May 22, 2019

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

ENGINEERING BY
TRENCO
A MiTek Affiliate

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Edenton, NC 27932

| | | | | | | |
|--------|-------|--------------------|-----|-----|--------------------------|-----------|
| Job | Truss | Truss Type | Qty | Ply | H&H/Kent/ | E13078438 |
| Master | B05 | JACK-CLOSED GIRDER | 4 | 1 | Job Reference (optional) | |

Builders FirstSource (Albermarle), Albemarle, NC - 28001,

8.240 s May 13 2019 MiTek Industries, Inc. Wed May 22 09:36:59 2019 Page 2
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LOAD CASE(S) Standard

Concentrated Loads (lb)

Vert: 13=-1090(F) 15=-1450(F)

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

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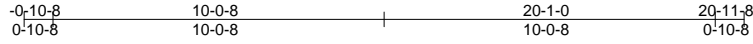
818 Soundside Road
 Edenton, NC 27932

| | | | | | | |
|--------|-------|------------|-----|-----|-----------|-----------|
| Job | Truss | Truss Type | Qty | Ply | H&H/Kent/ | E13078441 |
| Master | C01 | GABLE | 5 | 1 | | |

Builders FirstSource (Albermarle), Albermarle, NC - 28001,

8.240 s May 13 2019 MITek Industries, Inc. Wed May 22 09:37:03 2019 Page 1

ID:h_gUcblDxiXoqL1mPMfncDza12N-pBUEO9JZAnQAuF8Zw8cMxQ8CjGGeYy2EWPT_JyzE_Xk



3x6 ||

Scale = 1:69.9

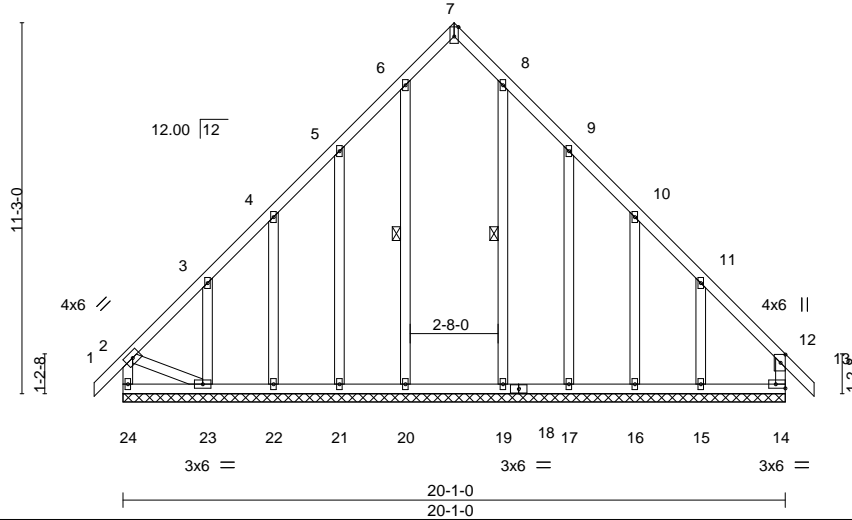


Plate Offsets (X,Y)-- [7:0-3-7,Edge], [12:0-3-0,0-1-12], [14:Edge,0-1-8]

| | | | | | | | | | |
|----------------------|----------------------|-------|-------------|--------------|----------|--------|-----|----------------|-------------|
| 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 0.26 | Vert(LL) | -0.00 | 13 | n/r | MT20 | 244/190 |
| TCDL 10.0 | Lumber DOL | 1.15 | BC 0.30 | Vert(CT) | -0.00 | 13 | n/r | | |
| BCLL 0.0 * | Rep Stress Incr | YES | WB 0.25 | Horz(CT) | 0.01 | 14 | n/a | | |
| BCDL 10.0 | Code IRC2015/TPI2014 | | Matrix-S | | | | | | |
| | | | | | | | | Weight: 156 lb | FT = 20% |

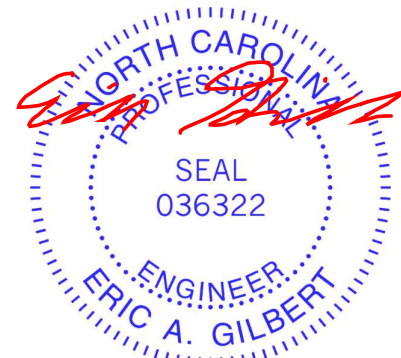
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
2-23: 2x4 SP No.3
OTHERS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 6-20, 8-19

REACTIONS. All bearings 20-1-0.
(lb) - Max Horz 24=352(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) 14, 20, 16 except 24=152(LC 10), 21=174(LC 12), 22=116(LC 12), 23=294(LC 12), 17=210(LC 13), 15=365(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 21, 22, 19, 17, 16 except 24=364(LC 12), 14=338(LC 13), 20=287(LC 19), 23=273(LC 19), 15=274(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-24=-348/175, 2-3=-392/243, 11-12=-391/288, 12-14=-251/167
BOT CHORD 23-24=-326/334, 22-23=-251/318, 21-22=-251/318, 20-21=-251/318, 19-20=-251/318, 17-19=-251/318, 16-17=-251/318, 15-16=-251/318, 14-15=-251/318
WEBS 11-15=-293/290, 2-23=-269/374

- NOTES-** (12)
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) 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
 - 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.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
 - Gable studs spaced at 2-0-0 oc.
 - 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.
 - All bearings are assumed to be User Defined crushing capacity of 565 psi.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 14, 20, 16 except (jt=lb) 24=152, 21=174, 22=116, 23=294, 17=210, 15=365.
 - 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.



May 22, 2019

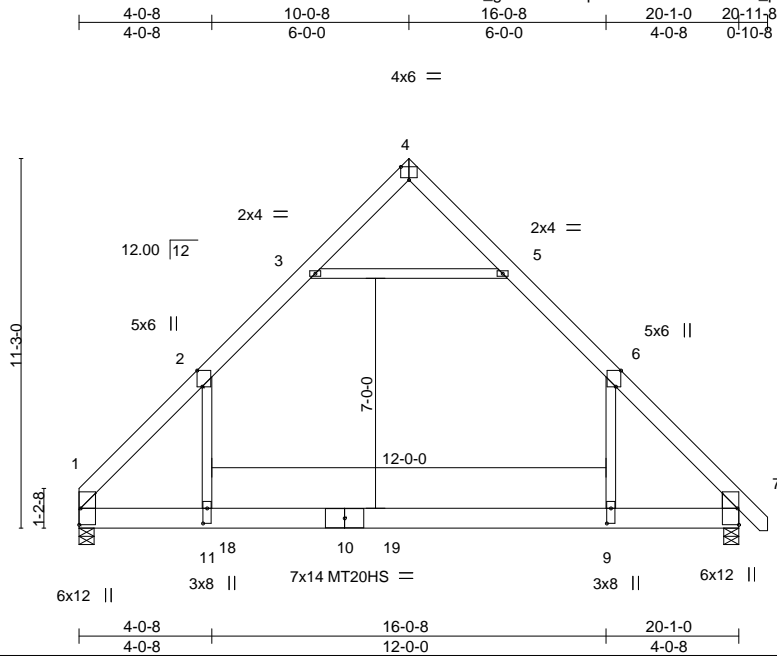
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.
Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

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|---------------|--------------|--------------------------|-----------|----------|---------------------------------------|-----------|
| Job Master | Truss C02 | Truss Type ROOF TRUSS | Qty 13 | Ply 1 | H&H/Kent/ Job Reference (optional) | E13078442 |
|---------------|--------------|--------------------------|-----------|----------|---------------------------------------|-----------|

Builders FirstSource (Albermarle), Albermarle, NC - 28001,

8.240 s May 13 2019 MITEK Industries, Inc. Wed May 22 09:37:05 2019 Page 1
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Scale = 1:70.1

Plate Offsets (X,Y)-- [1:0-0-8,0-4-3], [1:0-0-4,0-0-4], [2:0-5-14,Edge], [4:0-3-0,Edge], [6:0-5-14,Edge], [7:0-0-4,0-0-4], [7:0-0-8,0-4-3], [9:0-5-8,0-1-8], [11:0-5-8,0-1-8]

| | | | | | | | | | |
|----------------------|----------------------|-------|-------------|--------------|----------|--------|------|----------------|-------------|
| 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 0.64 | Vert(LL) | -0.33 | 9-11 | >725 | MT20 | 244/190 |
| TCDL 10.0 | Lumber DOL | 1.15 | BC 0.58 | Vert(CT) | -0.56 | 9-11 | >427 | MT20HS | 187/143 |
| BCLL 0.0 * | Rep Stress Incr | YES | WB 0.83 | Horz(CT) | 0.03 | 1 | n/a | | |
| BCDL 10.0 | Code IRC2015/TPI2014 | | Matrix-AS | Wind(LL) | 0.09 | 9-11 | >999 | | |
| | | | | | | | | Weight: 156 lb | FT = 20% |

LUMBER-

TOP CHORD 2x6 SP DSS
 BOT CHORD 2x8 SP DSS
 WEBS 2x4 SP No.2
 WEDGE
 Left: 2x6 SP No.2, Right: 2x6 SP No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied.
 BOT CHORD Rigid ceiling directly applied.

REACTIONS.

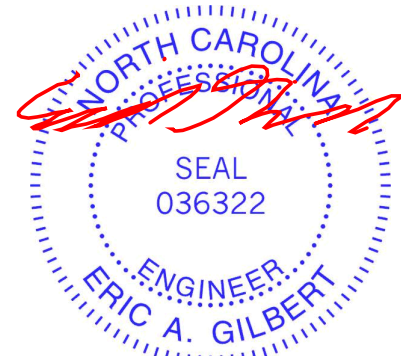
(lb/size) 1=1100/0-5-8, 7=1087/0-5-8
 Max Horz 1=-300(LC 10)
 Max Grav 1=1388(LC 21), 7=1360(LC 21)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-1910/0, 2-3=-1000/143, 3-4=-46/263, 4-5=-54/255, 5-6=-1008/131, 6-7=-1897/0
 BOT CHORD 1-11=0/1083, 9-11=0/1086, 7-9=0/1082
 WEBS 6-9=0/1172, 2-11=0/1202, 3-5=-1272/116

NOTES- (12)

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) 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
- 200.0lb AC unit load placed on the bottom chord, 7-0-0 from left end, supported at two points, 5-0-0 apart.
- All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Ceiling dead load (5.0 psf) on member(s). 2-3, 5-6, 3-5; Wall dead load (5.0psf) on member(s).6-9, 2-11
- Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 9-11
- All bearings are assumed to be User Defined crushing capacity of 565 psi.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- Attic room checked for L/360 deflection.
- 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.



May 22, 2019

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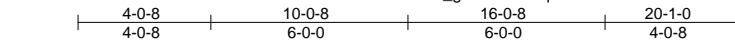


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|---------------|--------------|--------------------------|-----------|----------|---------------------------------------|-----------|
| Job Master | Truss C03 | Truss Type ROOF TRUSS | Qty 48 | Ply 1 | H&H/Kent/ Job Reference (optional) | E13078443 |
|---------------|--------------|--------------------------|-----------|----------|---------------------------------------|-----------|

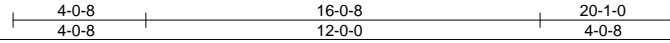
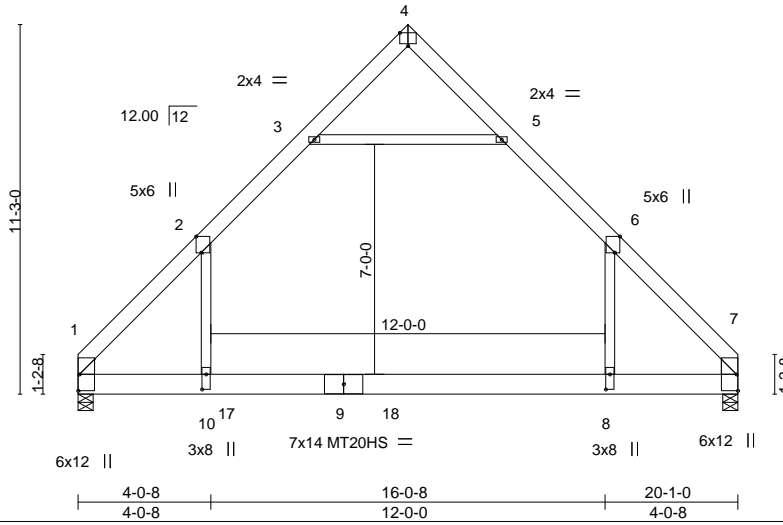
Builders FirstSource (Albermarle), Albermarle, NC - 28001,

8.240 s May 13 2019 MITEK Industries, Inc. Wed May 22 09:37:06 2019 Page 1
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4x6 =

Scale = 1:70.1



| | |
|-----------------------|---|
| Plate Offsets (X,Y)-- | [1:0-0-8,0-4-3], [1:0-0-4,0-0-4], [2:0-5-14,Edge], [4:0-3-0,Edge], [6:0-5-14,Edge], [7:0-0-4,0-0-4], [7:0-0-8,0-4-3], [8:0-5-8,0-1-8], [10:0-5-8,0-1-8] |
|-----------------------|---|

| | | | | | | | | | |
|----------------------|----------------------|-------|-------------|--------------|----------|--------|------|----------------|-------------|
| 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 0.64 | Vert(LL) | -0.33 | 8-10 | >725 | MT20 | 244/190 |
| TCDL 10.0 | Lumber DOL | 1.15 | BC 0.58 | Vert(CT) | -0.56 | 8-10 | >427 | MT20HS | 187/143 |
| BCLL 0.0 * | Rep Stress Incr | YES | WB 0.83 | Horz(CT) | 0.03 | 1 | n/a | | |
| BCDL 10.0 | Code IRC2015/TPI2014 | | Matrix-AS | Wind(LL) | 0.09 | 8-10 | >999 | | |
| | | | | | | | | Weight: 153 lb | FT = 20% |

LUMBER-
TOP CHORD 2x6 SP DSS
BOT CHORD 2x8 SP DSS
WEBS 2x4 SP No.2
WEDGE
Left: 2x6 SP No.2, Right: 2x6 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied.

REACTIONS. (lb/size) 1=1101/0-5-8, 7=1041/0-5-8
Max Horz 1=286(LC 9)
Max Grav 1=1389(LC 21), 7=1329(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-1912/0, 2-3=-1001/143, 3-4=-45/263, 4-5=-53/255, 5-6=-1008/131, 6-7=-1898/0
BOT CHORD 1-10=0/1073, 8-10=0/1076, 7-8=0/1072
WEBS 6-8=0/1172, 2-10=0/1203, 3-5=-1274/116

- NOTES-** (12)
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) 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) 200.0lb AC unit load placed on the bottom chord, 7-0-0 from left end, supported at two points, 5-0-0 apart.
 - 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) Ceiling dead load (5.0 psf) on member(s). 2-3, 5-6, 3-5; Wall dead load (5.0psf) on member(s).6-8, 2-10
 - 8) Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 8-10
 - 9) All bearings are assumed to be User Defined crushing capacity of 565 psi.
 - 10) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
 - 11) Attic room checked for L/360 deflection.
 - 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.



May 22, 2019

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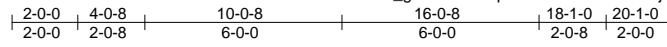


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| | | | | | | |
|---------------|---------------|--------------------------|-----------|----------|---------------------------------------|-----------|
| Job Master | Truss C03A | Truss Type ROOF TRUSS | Qty 16 | Ply 1 | H&H/Kent/ Job Reference (optional) | E13078444 |
|---------------|---------------|--------------------------|-----------|----------|---------------------------------------|-----------|

Builders FirstSource (Albermarle), Albermarle, NC - 28001,

8.240 s May 13 2019 MITEK Industries, Inc. Wed May 22 09:37:07 2019 Page 1
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4x6 =

Scale = 1:70.1

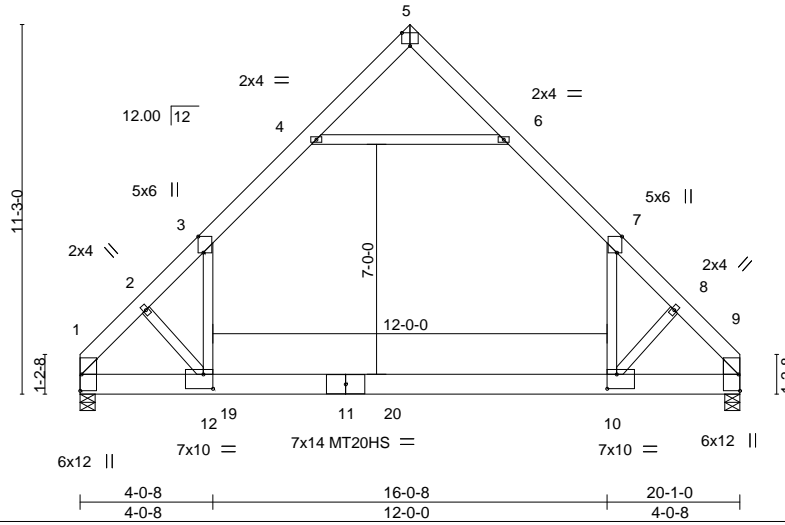


Plate Offsets (X,Y)-- [1:0-0-8,0-4-3], [1:0-0-4,0-0-4], [3:0-5-14,Edge], [5:0-3-0,Edge], [7:0-5-14,Edge], [9:0-0-4,0-0-4], [9:0-0-8,0-4-3], [10:0-3-8,0-5-4], [12:0-3-8,0-5-4]

| | | | | | | | | | |
|----------------------|----------------------|-------|-------------|--------------|----------|--------|------|----------------|-------------|
| LOADING (psf) | SPACING- | 2-2-0 | CSI. | DEFL. | in (loc) | l/defl | L/d | PLATES | GRIP |
| TCLL 20.0 | Plate Grip DOL | 1.15 | TC 0.82 | Vert(LL) | -0.37 | 10-12 | >654 | MT20 | 244/190 |
| TCDL 10.0 | Lumber DOL | 1.15 | BC 0.70 | Vert(CT) | -0.62 | 10-12 | >389 | MT20HS | 187/143 |
| BCLL 0.0 * | Rep Stress Incr | NO | WB 0.88 | Horz(CT) | 0.03 | 1 | n/a | | |
| BCDL 10.0 | Code IRC2015/TPI2014 | | Matrix-MS | Wind(LL) | 0.10 | 10-12 | >999 | | |
| | | | | | | | | Weight: 161 lb | FT = 20% |

LUMBER-

TOP CHORD 2x6 SP DSS
BOT CHORD 2x8 SP DSS
WEBS 2x4 SP No.2 *Except*
2-12,8-10: 2x4 SP No.3

WEDGE

Left: 2x6 SP No.2, Right: 2x6 SP No.2

REACTIONS.

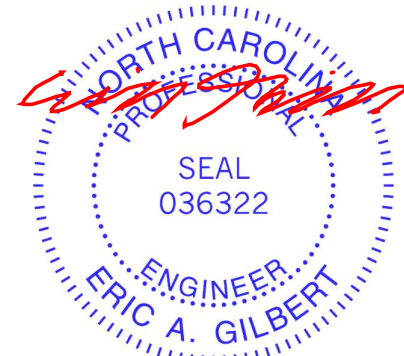
(lb/size) 1=1182/0-5-8, 9=1122/0-5-8
Max Horz 1=309(LC 9)
Max Grav 1=1494(LC 21), 9=1434(LC 20)

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

TOP CHORD 1-2=-2100/0, 2-3=-2061/0, 3-4=-1071/157, 6-7=-1080/145, 7-8=-2026/0, 8-9=-2070/0
BOT CHORD 1-12=0/1440, 10-12=0/1147, 9-10=0/1258
WEBS 7-10=0/1381, 3-12=0/1442, 4-6=-1312/133, 2-12=-461/149, 8-10=-406/209

NOTES- (11)

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) 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
- 200.0lb AC unit load placed on the bottom chord, 7-0-0 from left end, supported at two points, 5-0-0 apart.
- All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Ceiling dead load (5.0 psf) on member(s). 3-4, 6-7, 4-6; Wall dead load (5.0psf) on member(s).7-10, 3-12
- Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 10-12
- All bearings are assumed to be User Defined crushing capacity of 565 psi.
- Attic room checked for L/360 deflection.
- 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.



May 22, 2019

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

Design valid for use only with MITEK® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



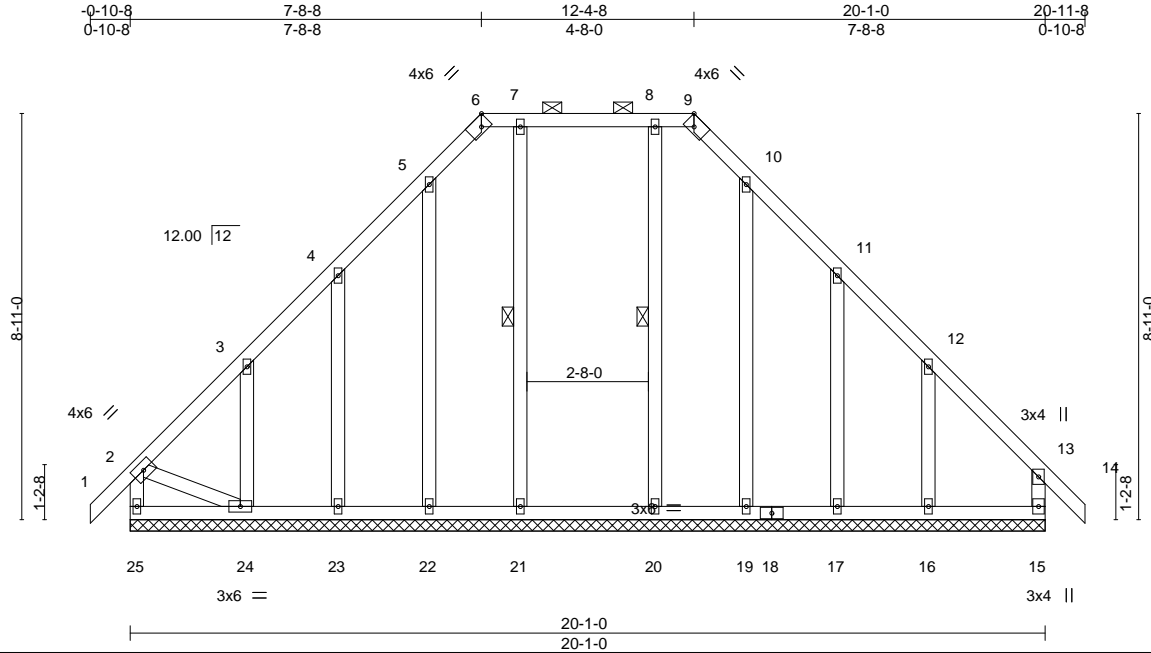
818 Soundside Road
Edenton, NC 27932

| | | | | | | |
|---------------|--------------|---------------------|----------|----------|---------------------------------------|-----------|
| Job Master | Truss C04 | Truss Type GABLE | Qty 3 | Ply 1 | H&H/Kent/ Job Reference (optional) | E13078445 |
|---------------|--------------|---------------------|----------|----------|---------------------------------------|-----------|

Builders FirstSource (Albemarle), Albemarle, NC - 28001,

8.240 s May 13 2019 MITEK Industries, Inc. Wed May 22 09:37:08 2019 Page 1

ID:h_gUcblDxiXoqL1mPMfncDza12N-A9H7RtNi_J2T_00XjhCXeTr54H?KDEczghAl_9zE_Xf



Scale = 1:50.6

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

| LOADING (psf) | SPACING- | CSI. | DEFL. | in (loc) | l/defl | L/d | PLATES | GRIP |
|---------------|----------------------|----------|----------------|----------|--------|-----|----------------|----------|
| TCLL 20.0 | Plate Grip DOL 1.15 | TC 0.16 | Vert(LL) -0.00 | 14 | n/r | 120 | MT20 | 244/190 |
| TCDL 10.0 | Lumber DOL 1.15 | BC 0.14 | Vert(CT) -0.00 | 14 | n/r | 120 | | |
| BCLL 0.0 * | Rep Stress Incr YES | WB 0.16 | Horz(CT) 0.00 | 15 | n/a | n/a | | |
| BCDL 10.0 | Code IRC2015/TPI2014 | Matrix-S | | | | | | |
| | | | | | | | Weight: 151 lb | FT = 20% |

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
2-24: 2x4 SP No.3
OTHERS 2x4 SP No.3

BRACING-
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.): 6-9.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 7-21, 8-20

REACTIONS. All bearings 20-1-0.
(lb) - Max Horz 25=287(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) 15, 21, 22, 20, 19 except 25=182(LC 8), 23=147(LC 12), 24=230(LC 12), 17=126(LC 13), 16=239(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 15, 22, 23, 19, 17, 16 except 25=298(LC 20), 21=278(LC 22), 24=277(LC 19), 20=269(LC 22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-25=-274/193, 4-5=-214/265, 5-6=-230/253, 9-10=-230/253
BOT CHORD 24-25=-263/271

- NOTES-** (14)
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) 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
 - 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.
 - Provide adequate drainage to prevent water ponding.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
 - Gable studs spaced at 2-0-0 oc.
 - 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.
 - All bearings are assumed to be User Defined crushing capacity of 565 psi.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 15, 21, 22, 20, 19 except (jt=lb) 25=182, 23=147, 24=230, 17=126, 16=239.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - 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.



May 22, 2019

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

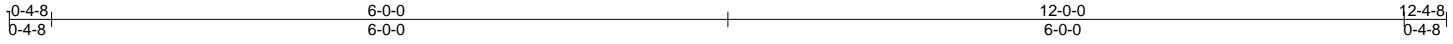
ENGINEERING BY
TRENCO
A MITEK Affiliate
818 Soundside Road
Edenton, NC 27932

| | | | | | | |
|--------|-------|------------------------|-----|-----|-----------|-----------|
| Job | Truss | Truss Type | Qty | Ply | H&H/Kent/ | E13078447 |
| Master | CP01 | Common Supported Gable | 8 | 1 | | |

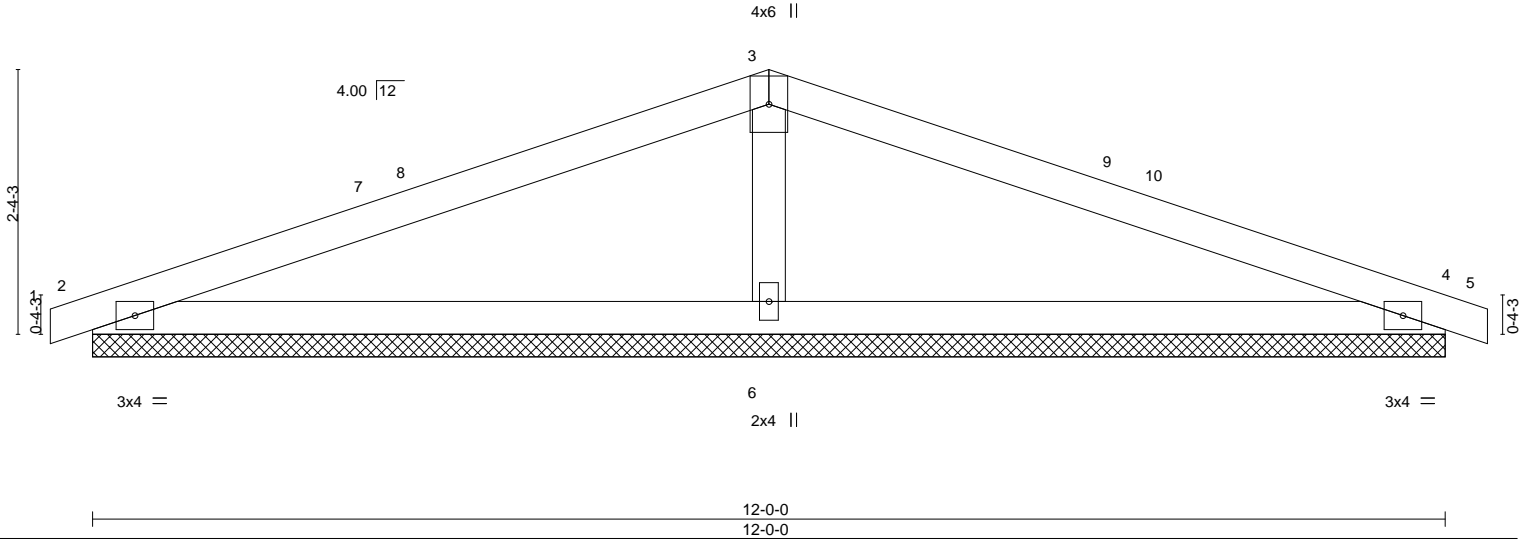
Builders FirstSource (Albermarle), Albermarle, NC - 28001,

8.240 s May 13 2019 MITek Industries, Inc. Wed May 22 09:37:11 2019 Page 1

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Scale = 1:20.4



| LOADING (psf) | SPACING- | CSL. | DEFL. | in (loc) | l/defl | L/d | PLATES | GRIP |
|---------------|----------------------|----------|---------------|----------|--------|-----|---------------|----------|
| TCLL 20.0 | Plate Grip DOL 1.15 | TC 0.51 | Vert(LL) 0.01 | 5 | n/r | 120 | MT20 | 244/190 |
| TCDL 10.0 | Lumber DOL 1.15 | BC 0.35 | Vert(CT) 0.02 | 5 | n/r | 120 | | |
| BCLL 0.0 * | Rep Stress Incr YES | WB 0.09 | Horz(CT) 0.00 | 4 | n/a | n/a | | |
| BCDL 10.0 | Code IRC2015/TPI2014 | Matrix-S | | | | | Weight: 41 lb | FT = 20% |

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

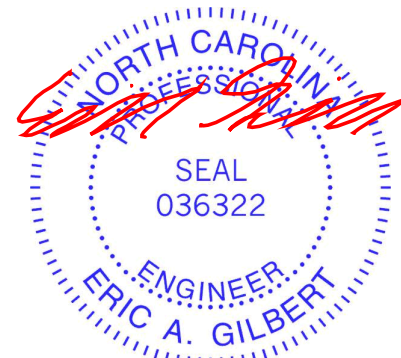
BRACING-
 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 2=228/12-0-0, 4=228/12-0-0, 6=549/12-0-0
 Max Horz 2=-41(LC 13)
 Max Uplift 2=-78(LC 8), 4=-83(LC 9), 6=-77(LC 8)
 Max Grav 2=235(LC 23), 4=235(LC 24), 6=549(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 WEBS 3-6=-366/313

NOTES- (10)

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) -0-4-8 to 2-7-8, Exterior(2) 2-7-8 to 6-0-0, Corner(3) 6-0-0 to 9-0-0, Exterior(2) 9-0-0 to 12-4-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be User Defined crushing capacity of 565 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4, 6.
- 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.



May 22, 2019

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

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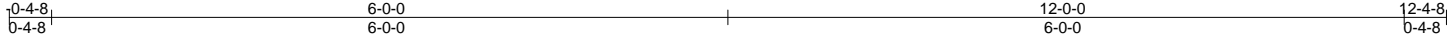
818 Soundside Road
 Edenton, NC 27932

| | | | | | | |
|--------|-------|------------|-----|-----|-----------|-----------|
| Job | Truss | Truss Type | Qty | Ply | H&H/Kent/ | E13078448 |
| Master | CP02 | Common | 30 | 1 | | |

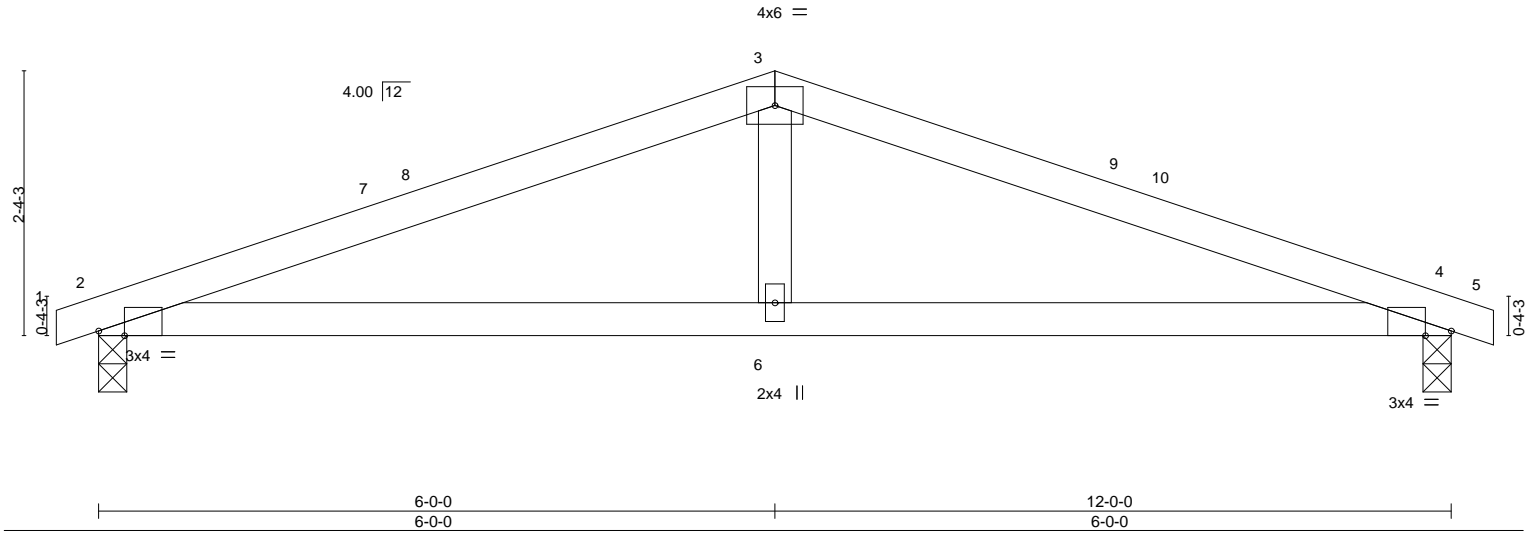
Builders FirstSource (Albermarle), Albermarle, NC - 28001,

8.240 s May 13 2019 MiTek Industries, Inc. Wed May 22 09:37:11 2019 Page 1

ID:h_gUcblDXiXoQL1mPMfncDza12N-akyG4uPaHEQ2rUI6OqIEG6TWWUzaQcBQMfPPbUzE_Xc



Scale = 1:20.4



| | |
|-----------------------|----------------------------------|
| Plate Offsets (X,Y)-- | [2:0-2-12,Edge], [4:0-2-12,Edge] |
|-----------------------|----------------------------------|

| LOADING (psf) | SPACING- | CSI. | DEFL. | in (loc) | l/defl | L/d | PLATES | GRIP |
|---------------|----------------------|----------|----------------|----------|--------|-----|---------------|----------|
| TCLL 20.0 | Plate Grip DOL 1.15 | TC 0.53 | Vert(LL) 0.09 | 4-6 | >999 | 240 | MT20 | 244/190 |
| TCDL 10.0 | Lumber DOL 1.15 | BC 0.43 | Vert(CT) -0.08 | 4-6 | >999 | 240 | | |
| BCLL 0.0 * | Rep Stress Incr YES | WB 0.11 | Horz(CT) 0.01 | 4 | n/a | n/a | | |
| BCDL 10.0 | Code IRC2015/TP12014 | Matrix-S | | | | | Weight: 41 lb | FT = 20% |

| LUMBER- | BRACING- |
|-----------------------|---|
| TOP CHORD 2x4 SP No.2 | TOP CHORD Structural wood sheathing directly applied or 5-1-3 oc purlins. |
| BOT CHORD 2x4 SP No.2 | BOT CHORD Rigid ceiling directly applied or 6-5-13 oc bracing. |
| WEBS 2x4 SP No.3 | |

REACTIONS. (lb/size) 2=500/0-3-0, 4=500/0-3-0
 Max Horz 2=-41(LC 17)
 Max Uplift 2=-245(LC 8), 4=-245(LC 9)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-877/850, 3-4=-877/850
 BOT CHORD 2-6=-740/776, 4-6=-740/776
 WEBS 3-6=-335/283

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-4-8 to 2-7-8, Interior(1) 2-7-8 to 6-0-0, Exterior(2) 6-0-0 to 9-0-0, Interior(1) 9-0-0 to 12-4-8 zone; cantilever left and right exposed; 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
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=245, 4=245.



May 22, 2019

| | |
|---|--|
| <p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.</p> <p>Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.</p> | <p>ENGINEERING BY</p> <p>A MiTek Affiliate</p> <p>818 Soundside Road Edenton, NC 27932</p> |
|---|--|

| | | | | | | |
|---------------|--------------|---------------------|----------|----------|---------------------------------------|-----------|
| Job Master | Truss D01 | Truss Type GABLE | Qty 2 | Ply 1 | H&H/Kent/ Job Reference (optional) | E13078449 |
|---------------|--------------|---------------------|----------|----------|---------------------------------------|-----------|

Builders FirstSource (Albermarle), Albermarle, NC - 28001,

8.240 s May 13 2019 MITek Industries, Inc. Wed May 22 09:37:14 2019 Page 1
ID:h_gUcblDxiXoqL1mPMfncDza12N-JeOiwRTa9pcixTh3yJxuk58ph3Kdy4s2cd3CpzE_XZ

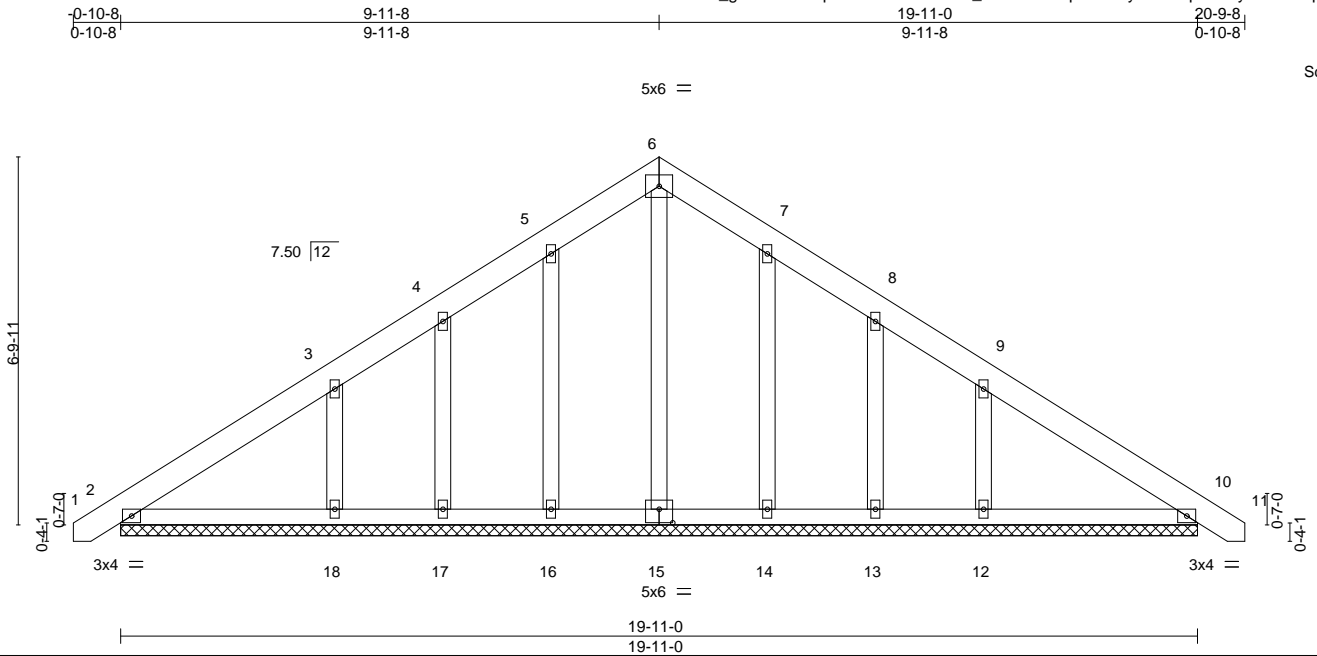


Plate Offsets (X,Y)-- [15:0-3-0,0-3-0]

| LOADING (psf) | SPACING- | 2-0-0 | CSI. | DEFL. | in (loc) | l/defl | L/d | PLATES | GRIP |
|---------------|----------------------|-------|----------|----------|----------|--------|-----|----------------|----------|
| TCLL 20.0 | Plate Grip DOL | 1.15 | TC 0.08 | Vert(LL) | 0.00 | 11 | n/r | MT20 | 244/190 |
| TCDL 10.0 | Lumber DOL | 1.15 | BC 0.10 | Vert(CT) | 0.00 | 11 | n/r | | |
| BCLL 0.0 * | Rep Stress Incr | YES | WB 0.10 | Horz(CT) | 0.00 | 10 | n/a | | |
| BCDL 10.0 | Code IRC2015/TPI2014 | | Matrix-S | | | | | | |
| | | | | | | | | Weight: 131 lb | FT = 20% |

LUMBER-
TOP CHORD 2x6 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.3

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

REACTIONS. All bearings 19-11-0.
(lb) - Max Horz 2--190(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 2, 10, 16, 17, 14, 13 except 18--151(LC 12), 12--149(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 2, 10, 15, 16, 17, 14, 13 except 18=339(LC 19), 12=337(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 3-18--273/190, 9-12--273/187

- NOTES-** (11)
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) -0-8-9 to 2-3-7, Exterior(2) 2-3-7 to 9-11-8, Corner(3) 9-11-8 to 12-11-8, Exterior(2) 12-11-8 to 20-7-9 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - Gable studs spaced at 2-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - All bearings are assumed to be User Defined crushing capacity of 565 psi.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 10, 16, 17, 14, 13 except (jt=lb) 18=151, 12=149.
 - 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.



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

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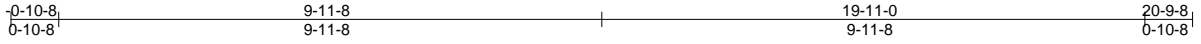
ENGINEERING BY
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A MITek Affiliate

818 Soundside Road
Edenton, NC 27932

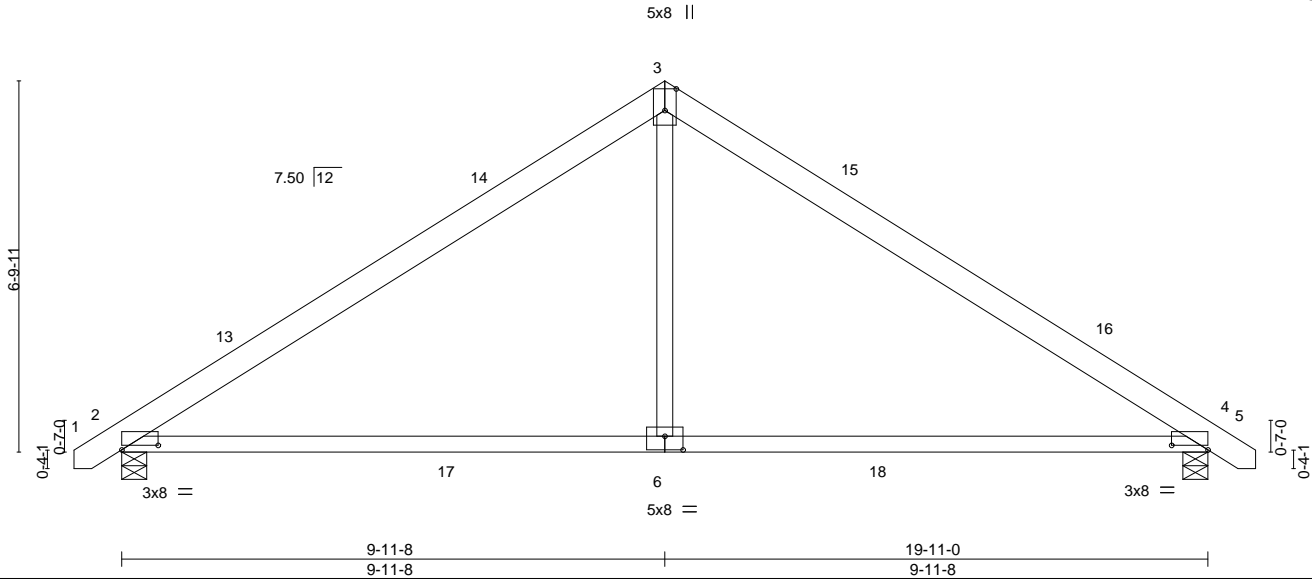
| | | | | | | |
|---------------|--------------|----------------------|-----------|----------|---------------------------------------|-----------|
| Job Master | Truss D02 | Truss Type COMMON | Qty 15 | Ply 1 | H&H/Kent/ Job Reference (optional) | E13078450 |
|---------------|--------------|----------------------|-----------|----------|---------------------------------------|-----------|

Builders FirstSource (Albermarle), Albermarle, NC - 28001,

8.240 s May 13 2019 MITEK Industries, Inc. Wed May 22 09:37:15 2019 Page 1
ID:h_gUcblDxiXoqL1mPMfncDza12N-TVcmvGSSLTxTK52tdfqAQyeB?5C?MOz?HGnckFzE_XY



Scale = 1:42.2



| | |
|-----------------------|---|
| Plate Offsets (X,Y)-- | [2:0-8-0,0-1-0], [3:0-4-12,0-2-8], [4:0-8-0,0-1-0], [6:0-4-0,0-3-0] |
|-----------------------|---|

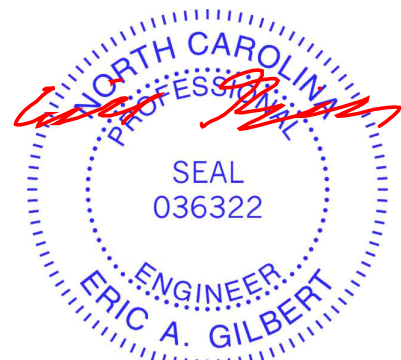
| LOADING (psf) | SPACING- | CSL | DEFL. | in (loc) | l/defl | L/d | PLATES | GRIP |
|---------------|----------------------|-----------|----------------|----------|--------|-----|---------------|----------|
| TCLL 20.0 | Plate Grip DOL 1.15 | TC 0.56 | Vert(LL) -0.13 | 6-12 | >999 | 360 | MT20 | 244/190 |
| TCDL 10.0 | Lumber DOL 1.15 | BC 0.91 | Vert(CT) -0.29 | 6-12 | >826 | 240 | | |
| BCLL 0.0 * | Rep Stress Incr YES | WB 0.19 | Horz(CT) 0.02 | 4 | n/a | n/a | | |
| BCDL 10.0 | Code IRC2015/TPI2014 | Matrix-AS | Wind(LL) 0.13 | 6-9 | >999 | 240 | Weight: 99 lb | FT = 20% |

| LUMBER- | BRACING- |
|-----------------------|---|
| TOP CHORD 2x6 SP No.2 | TOP CHORD Structural wood sheathing directly applied. |
| BOT CHORD 2x4 SP No.2 | BOT CHORD Rigid ceiling directly applied. |
| WEBS 2x4 SP No.3 | |

REACTIONS. (lb/size) 2=839/0-5-8, 4=839/0-5-8
 Max Horz 2=190(LC 11)
 Max Uplift 2=-155(LC 12), 4=-155(LC 13)
 Max Grav 2=901(LC 19), 4=901(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-1081/198, 3-4=-1080/198
 BOT CHORD 2-6=-59/889, 4-6=-59/889
 WEBS 3-6=0/487

- NOTES-** (8)
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-8-9 to 2-3-7, Interior(1) 2-3-7 to 9-11-8, Exterior(2) 9-11-8 to 12-11-8, Interior(1) 12-11-8 to 20-7-9 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 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.
 - All bearings are assumed to be User Defined crushing capacity of 565 psi.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=155, 4=155.
 - This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
 - 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.



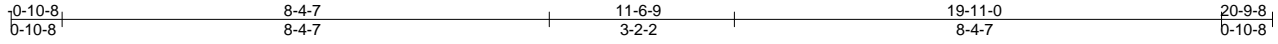
May 22, 2019

| | | | | | | |
|--------|-------|------------|-----|-----|--------------------------|-----------|
| Job | Truss | Truss Type | Qty | Ply | H&H/Kent/ | E13078451 |
| Master | D03 | GABLE | 1 | 1 | Job Reference (optional) | |

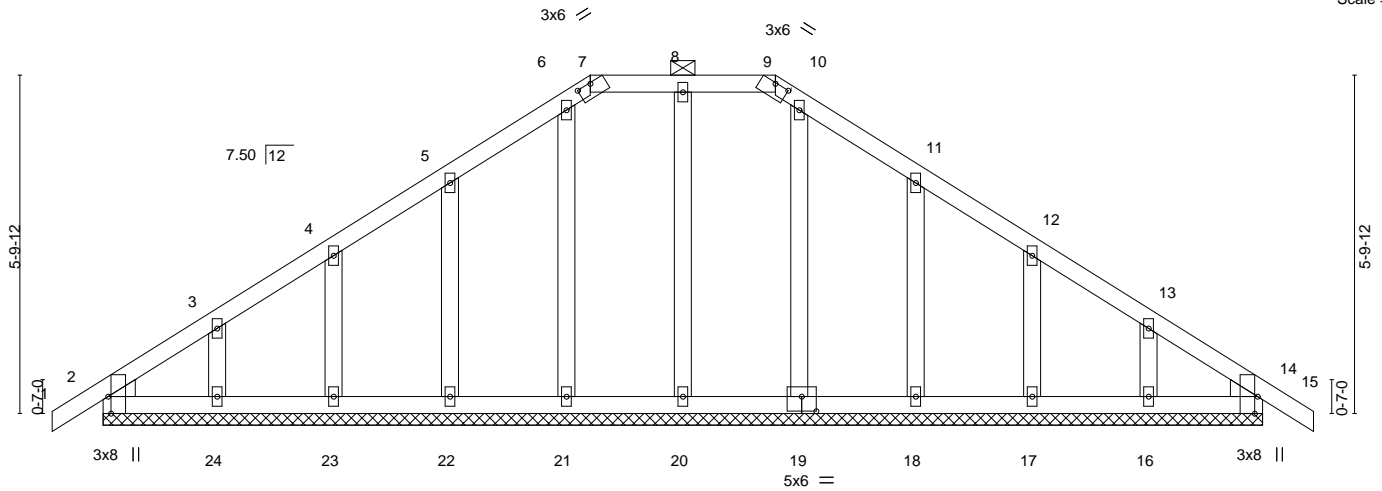
Builders FirstSource (Albermarle), Albemarle, NC - 28001,

8.240 s May 13 2019 MITek Industries, Inc. Wed May 22 09:37:16 2019 Page 1

ID:h_gUcblDXiXoqL1mPMfncDza12N-xhm97cTj6m3KyFd3BNLPz9AUhVmx5s?9Vw6AGhzE_XX



Scale = 1:39.6



| | |
|-----------------------|---|
| Plate Offsets (X,Y)-- | [2:0-3-8,Edge], [2:0-0-10,0-4-12], [2:0-0-5,0-0-8], [7:0-3-0,0-0-3], [9:0-3-0,0-0-3], [14:0-3-8,Edge], [14:0-0-10,0-4-12], [14:0-0-5,0-0-8], [19:0-3-0,0-3-0] |
|-----------------------|---|

| | | | | | | | | | |
|----------------------|----------------------|-------|-------------|--------------|----------|--------|-----|----------------|-------------|
| LOADING (psf) | SPACING- | 2-0-0 | CSI. | DEFL. | in (loc) | l/defl | L/d | PLATES | GRIP |
| TCLL 20.0 | Plate Grip DOL | 1.15 | TC 0.05 | Vert(LL) | -0.00 | 14 | n/r | MT20 | 244/190 |
| TCDL 10.0 | Lumber DOL | 1.15 | BC 0.03 | Vert(CT) | -0.00 | 14 | n/r | | |
| BCLL 0.0 * | Rep Stress Incr | YES | WB 0.07 | Horz(CT) | 0.00 | 14 | n/a | | |
| BCDL 10.0 | Code IRC2015/TPI2014 | | Matrix-S | | | | | | |
| | | | | | | | | Weight: 114 lb | FT = 20% |

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.3
WEDGE
Left: 2x4 SP No.2, Right: 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 7-9.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 19-11-0.
(lb) - Max Horz 2=165(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) 2, 20, 21, 22, 23, 24, 18, 17, 14, 16
Max Grav All reactions 250 lb or less at joint(s) 2, 20, 21, 22, 23, 24, 19, 18, 17, 14, 16

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

- NOTES-** (13)
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) 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
 - 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.
 - Provide adequate drainage to prevent water ponding.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - Gable studs spaced at 2-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - All bearings are assumed to be User Defined crushing capacity of 565 psi.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 20, 21, 22, 23, 24, 18, 17, 14, 16.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - 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.

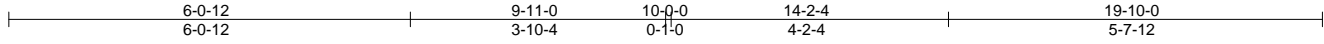


| | | | | | | |
|---------------|---------------|---------------------------|----------|----------|---------------------------------------|-----------|
| Job Master | Truss FG01 | Truss Type Flat Girder | Qty 2 | Ply 2 | H&H/Kent/ Job Reference (optional) | E13078452 |
|---------------|---------------|---------------------------|----------|----------|---------------------------------------|-----------|

Builders FirstSource (Albemarle), Albemarle, NC - 28001,

8.240 s May 13 2019 MITek Industries, Inc. Wed May 22 09:37:20 2019 Page 1

ID:h_gUcblDXiXoQL1mPMfncDza12N-pT?fyzWE9?ZmQsqxQDQL7?L3a6zc1TskQY4NPTzE_XT



Scale = 1:34.8

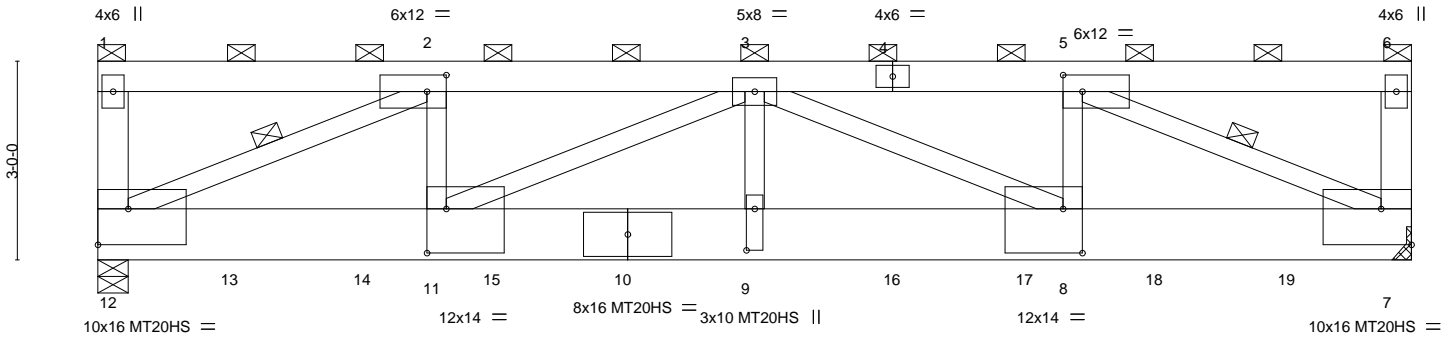


Plate Offsets (X,Y)-- [2:0-3-8,0-3-0], [5:0-3-8,0-3-0], [7:Edge,0-6-8], [8:0-3-8,0-8-0], [9:0-7-8,0-1-8], [11:0-3-8,0-8-0], [12:Edge,0-6-8]

| | | | | | | | | | |
|----------------------|----------------------|-------|-------------|--------------|----------|--------|------|----------------|-------------|
| 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 0.51 | Vert(LL) | -0.16 | 9 | >999 | MT20 | 244/190 |
| TCDL 10.0 | Lumber DOL | 1.15 | BC 0.69 | Vert(CT) | -0.35 | 9 | >671 | MT20HS | 187/143 |
| BCLL 0.0 * | Rep Stress Incr | NO | WB 0.94 | Horz(CT) | 0.06 | 7 | n/a | | |
| BCDL 10.0 | Code IRC2015/TPI2014 | | Matrix-MS | Wind(LL) | 0.11 | 9 | >999 | | |
| | | | | | | | | Weight: 339 lb | FT = 20% |

LUMBER-

TOP CHORD 2x6 SP No.2
 BOT CHORD 2x10 SP DSS
 WEBS 2x4 SP No.2 *Except*
 1-12,6-7: 2x6 SP No.2

BRACING-

TOP CHORD 2-0-0 oc purlins (4-0-6 max.): 1-6, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
 WEBS 1 Row at midpt 2-12, 5-7

REACTIONS.

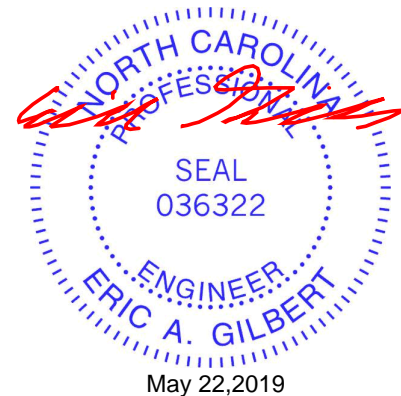
(lb/size) 12=7424/0-5-8, 7=7587/Mechanical
 Max Horz 12=-63(LC 6)
 Max Uplift 12=-124(LC 4), 7=-124(LC 5)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-12=-292/37, 1-2=-558/46, 2-3=-1231/2/0, 3-5=-12304/0, 5-6=-569/22, 6-7=-293/35
 BOT CHORD 11-12=0/12312, 9-11=0/15643, 8-9=0/15643, 7-8=0/12304
 WEBS 2-12=-13081/0, 2-11=0/5647, 3-11=-3719/0, 3-8=-3728/0, 5-8=0/5638, 5-7=-13060/0,
 3-9=0/2920

NOTES- (13)

- 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.
 Bottom chords connected as follows: 2x10 - 2 rows staggered at 0-4-0 oc.
 Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); end vertical left exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be User Defined crushing capacity of 565 psi.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 12=124, 7=124.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 630 lb down and 365 lb up at 2-0-12, 698 lb down and 137 lb up at 2-0-12, 630 lb down and 365 lb up at 4-0-12, 698 lb down and 137 lb up at 4-0-12, 2491 lb down at 6-0-4, 698 lb down and 137 lb up at 6-0-12, 698 lb down and 137 lb up at 8-0-12, 698 lb down and 137 lb up at 10-0-12, 698 lb down and 137 lb up at 12-0-12, 698 lb down and 137 lb up at 14-0-12, 2491 lb down at 14-1-12, 630 lb down and 365 lb up at 16-0-4, 698 lb down and 137 lb up at 16-0-12, and 630 lb down and 365 lb up at 18-0-4, and 698 lb down and 137 lb up at 18-0-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.



Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.
 Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



| | | | | | | |
|--------|-------|-------------|-----|----------|--------------------------|-----------|
| Job | Truss | Truss Type | Qty | Ply | H&H/Kent/ | E13078452 |
| Master | FG01 | Flat Girder | 2 | 2 | Job Reference (optional) | |

Builders FirstSource (Albermarle), Albermarle, NC - 28001,

8.240 s May 13 2019 MiTek Industries, Inc. Wed May 22 09:37:20 2019 Page 2

ID:h_gUcblDXiXoqL1mPMfncDza12N-pT?fyzWE9?ZmQsxqQDQL7?L3a6zc1TSkQY4NPTzE_XT

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: 1-6=-60, 7-12=-20

Concentrated Loads (lb)

Vert: 10=-698(B) 9=-698(B) 13=-1247(F=-549, B=-698) 14=-1247(F=-549, B=-698) 15=-3189(F=-2491, B=-698) 16=-698(B) 17=-3189(F=-2491, B=-698) 18=-1247(F=-549, B=-698) 19=-1247(F=-549, B=-698)

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



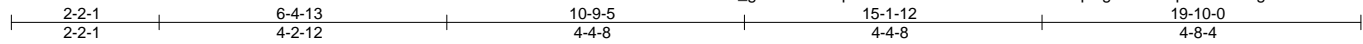
818 Soundside Road
Edenton, NC 27932

| | | | | | | |
|---------------|---------------|---------------------------|----------|----------|---------------------------------------|-----------|
| Job Master | Truss FG02 | Truss Type Flat Girder | Qty 3 | Ply 2 | H&H/Kent/ Job Reference (optional) | E13078453 |
|---------------|---------------|---------------------------|----------|----------|---------------------------------------|-----------|

Builders FirstSource (Albermarle), Albermarle, NC - 28001,

8.240 s May 13 2019 MITek Industries, Inc. Wed May 22 09:37:22 2019 Page 1

ID:h_gUcblXiXoqL1mPMfncDza12N-Ir7QNfYUhcpgA4DXeSpCQQN4wglVQm1usZUULzE_XR



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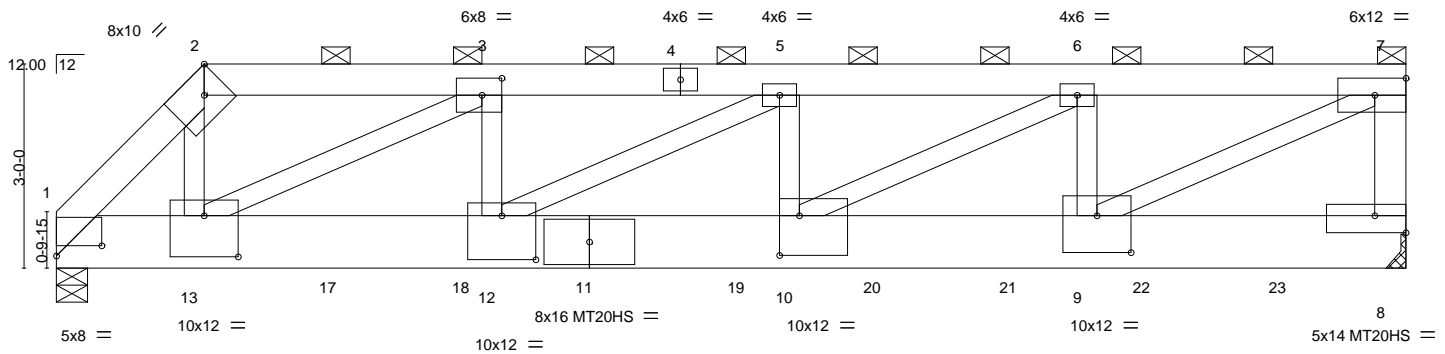


Plate Offsets (X,Y)-- [1:0-8-0,0-1-13], [2:0-3-14,Edge], [3:0-3-8,0-3-0], [8:Edge,0-3-0], [9:0-6-0,0-6-8], [10:0-3-8,0-7-0], [12:0-6-0,0-7-12], [13:0-6-0,0-7-4]

| | | | | | | | | | | |
|----------------------|----------------------|-------|-------------|--------------|----------|--------|------|---------------|----------------|----------|
| 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 0.64 | Vert(LL) | -0.15 | 10-12 | >999 | 360 | MT20 | 244/190 |
| TCDL 10.0 | Lumber DOL | 1.15 | BC 0.61 | Vert(CT) | -0.33 | 10-12 | >712 | 240 | MT20HS | 187/143 |
| BCLL 0.0 * | Rep Stress Incr | NO | WB 0.76 | Horz(CT) | 0.04 | 8 | n/a | n/a | | |
| BCDL 10.0 | Code IRC2015/TPI2014 | | Matrix-MS | Wind(LL) | 0.12 | 10-12 | >999 | 240 | | |
| | | | | | | | | | Weight: 337 lb | FT = 20% |

LUMBER-
 TOP CHORD 2x6 SP No.2
 BOT CHORD 2x10 SP DSS
 WEBS 2x4 SP No.2 *Except*
 7-8: 2x6 SP No.2, 3-13,5-12,6-10,7-9: 2x4 SP SS

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 5-1-5 oc purlins, except end verticals, and 2-0-0 oc purlins (3-4-14 max.): 2-7.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 1=6689/0-5-8, 8=7657/Mechanical
 Max Horz 1=70(LC 23)
 Max Uplift 1=-283(LC 5), 8=-283(LC 5)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-9073/338, 2-3=-5957/239, 3-5=-14418/0, 5-6=-15571/0, 6-7=-11844/0, 7-8=-6378/0
 BOT CHORD 1-13=-251/6334, 12-13=0/14418, 10-12=0/15571, 9-10=0/11844, 8-9=-33/437
 WEBS 2-13=-195/6173, 3-13=-9638/0, 3-12=0/4518, 5-12=-1368/0, 5-10=0/355, 6-10=0/4246, 6-9=-2115/87, 7-9=0/12937

- NOTES-** (13)
- 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.
 Bottom chords connected as follows: 2x10 - 2 rows staggered at 0-4-0 oc.
 Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
 - All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
 - Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); end vertical left exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - All plates are MT20 plates unless otherwise indicated.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - All bearings are assumed to be User Defined crushing capacity of 565 psi.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=283, 8=283.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 610 lb down and 339 lb up at 2-0-12, 630 lb down and 365 lb up at 4-0-12, 2456 lb down at 6-0-4, 1470 lb down and 715 lb up at 6-0-12, 698 lb down and 137 lb up at 8-0-12, 698 lb down and 137 lb up at 10-0-12, 698 lb down and 137 lb up at 12-0-12, 698 lb down and 137 lb up at 14-0-12, 2456 lb down at 14-1-12, 630 lb down and 365 lb up at 16-0-4, 698 lb down and 137 lb up at 16-0-12, and 630 lb down and 365 lb up at 18-0-4, and 698 lb down and 137 lb up at 18-0-12 on bottom chord. The design/selection of such connection is the responsibility of others.



| | | | | | | |
|--------|-------|-------------|-----|-----|--------------------------|-----------|
| Job | Truss | Truss Type | Qty | Ply | H&H/Kent/ | E13078453 |
| Master | FG02 | Flat Girder | 3 | 2 | Job Reference (optional) | |

Builders FirstSource (Albermarle), Albermarle, NC - 28001,

8.240 s May 13 2019 MiTek Industries, Inc. Wed May 22 09:37:22 2019 Page 2

ID:h_gUcbldXiXoqL1mPMfncDza12N-lr7QNfYUhcpUgA4DXeSpCQQN4wgLVQm1usZUULzE_XR

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: 1-2=-60, 2-7=-60, 8-14=-20

Concentrated Loads (lb)

Vert: 11=-698(B) 13=-559(F) 17=-549(F) 18=-3927(F=-2456, B=-1470) 19=-698(B) 20=-698(B) 21=-3154(F=-2456, B=-698) 22=-1247(F=-549, B=-698) 23=-1247(F=-549, B=-698)

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

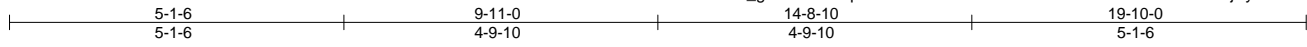


818 Soundside Road
Edenton, NC 27932

| | | | | | | |
|--------|-------|-------------|-----|-----|--------------------------|-----------|
| Job | Truss | Truss Type | Qty | Ply | H&H/Kent/ | E13078454 |
| Master | FG03 | Flat Girder | 3 | 2 | Job Reference (optional) | |

Builders FirstSource (Albemarle), Albemarle, NC - 28001,

8.240 s May 13 2019 MITek Industries, Inc. Wed May 22 09:37:24 2019 Page 1
 ID:h_gUcblDxiXoqL1mPMfncDza12N-iEFAoLzKDE3CvUEcf2UHLrVilJkYzKiKLA2bYEzE_XP



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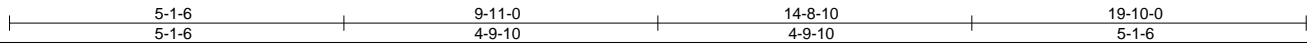
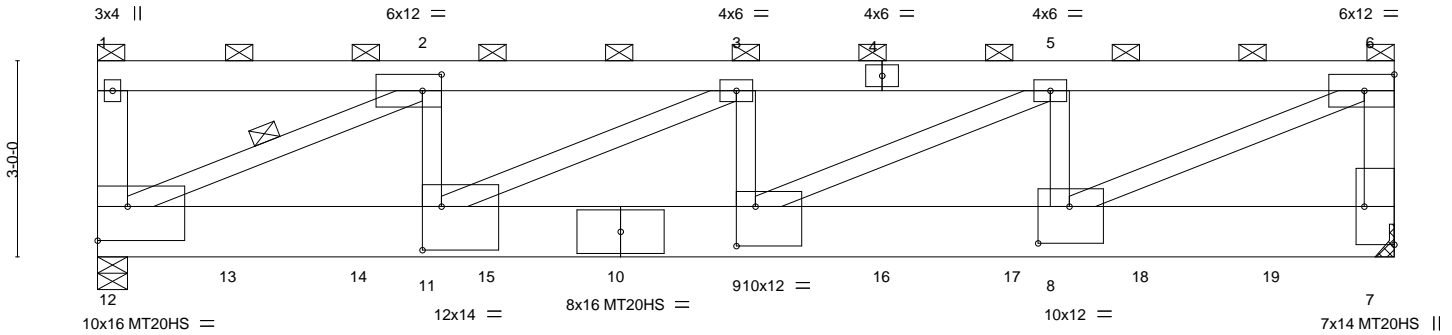


Plate Offsets (X,Y)-- [2:0-3-8,0-3-0], [7:Edge,0-5-8], [8:0-5-12,0-6-12], [9:0-3-8,0-7-4], [11:0-3-8,0-8-0], [12:Edge,0-6-4]

| | | | | | | | | | |
|----------------------|----------------------|-------|-------------|--------------|----------|--------|------|----------------|-------------|
| 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 0.65 | Vert(LL) | -0.16 | 9 | >999 | MT20 | 244/190 |
| TCDL 10.0 | Lumber DOL | 1.15 | BC 0.66 | Vert(CT) | -0.35 | 9 | >672 | MT20HS | 187/143 |
| BCLL 0.0 * | Rep Stress Incr | NO | WB 0.73 | Horz(CT) | 0.04 | 7 | n/a | | |
| BCDL 10.0 | Code IRC2015/TPI2014 | | Matrix-MS | Wind(LL) | 0.11 | 9 | >999 | | |
| | | | | | | | | Weight: 339 lb | FT = 20% |

LUMBER-

TOP CHORD 2x6 SP No.2
 BOT CHORD 2x10 SP DSS
 WEBS 2x4 SP SS *Except*
 1-12,6-7: 2x6 SP No.2, 2-11,3-9,5-8: 2x4 SP No.2

BRACING-

TOP CHORD 2-0-0 oc purlins (3-4-11 max.): 1-6, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
 WEBS 1 Row at midpt 2-12

REACTIONS.

(lb/size) 12=7389/0-5-8, 7=7552/Mechanical
 Max Horz 12=-63(LC 21)
 Max Uplift 12=-148(LC 4), 7=-149(LC 5)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-12=-266/38, 1-2=-471/52, 2-3=-12390/0, 3-5=-15389/0, 5-6=-12386/0, 6-7=-6089/0
 BOT CHORD 11-12=0/12390, 9-11=0/15389, 8-9=0/12386, 7-8=-28/485
 WEBS 2-12=-13264/0, 2-11=0/5681, 3-11=-3349/0, 3-9=0/1129, 5-9=0/3354, 5-8=-1611/0, 6-8=0/13244

NOTES- (13)

- 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.
 Bottom chords connected as follows: 2x10 - 2 rows staggered at 0-4-0 oc.
 Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); end vertical left exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be User Defined crushing capacity of 565 psi.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 12=148, 7=149.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 630 lb down and 365 lb up at 2-0-12, 698 lb down and 137 lb up at 2-0-12, 630 lb down and 365 lb up at 4-0-12, 698 lb down and 137 lb up at 4-0-12, 2456 lb down at 6-0-4, 698 lb down and 137 lb up at 6-0-12, 698 lb down and 137 lb up at 8-0-12, 698 lb down and 137 lb up at 10-0-12, 698 lb down and 137 lb up at 12-0-12, 698 lb down and 137 lb up at 14-0-12, 2456 lb down at 14-1-12, 630 lb down and 365 lb up at 16-0-4, 698 lb down and 137 lb up at 16-0-12, and 630 lb down and 365 lb up at 18-0-4, and 698 lb down and 137 lb up at 18-0-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.



Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.
 Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

ENGINEERING BY
TRENCO
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 818 Soundside Road
 Edenton, NC 27932

| | | | | | | |
|--------|-------|-------------|-----|-----|--------------------------|-----------|
| Job | Truss | Truss Type | Qty | Ply | H&H/Kent/ | E13078454 |
| Master | FG03 | Flat Girder | 3 | 2 | Job Reference (optional) | |

Builders FirstSource (Albermarle), Albermarle, NC - 28001,

8.240 s May 13 2019 MiTek Industries, Inc. Wed May 22 09:37:24 2019 Page 2

ID:h_gUcblDxiXoqL1mPMfncDza12N-iEFAoLZkDE3CvUEcf2UHlrVilJkYzKiKLA2bYEzE_XP

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: 1-6=-60, 7-12=-20

Concentrated Loads (lb)

Vert: 10=-698(B) 9=-698(B) 13=-1247(F=-549, B=-698) 14=-1247(F=-549, B=-698) 15=-3154(F=-2456, B=-698) 16=-698(B) 17=-3154(F=-2456, B=-698) 18=-1247(F=-549, B=-698) 19=-1247(F=-549, B=-698)

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



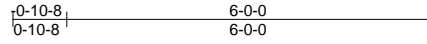
818 Soundside Road
Edenton, NC 27932

| | | | | | | |
|--------|-------|------------|-----|-----|--------------------------|-----------|
| Job | Truss | Truss Type | Qty | Ply | H&H/Kent/ | E13078455 |
| Master | J03 | JACK-OPEN | 12 | 1 | Job Reference (optional) | |

Builders FirstSource (Albermarle), Albermarle, NC - 28001,

8.240 s May 13 2019 MITek Industries, Inc. Wed May 22 09:37:25 2019 Page 1

ID:h_gUcblDXiXoqL1mPMfncDza12N-AQpY0haM_XB3XepoDm0Wq32y37mxiyKTAqo85gzE_XO



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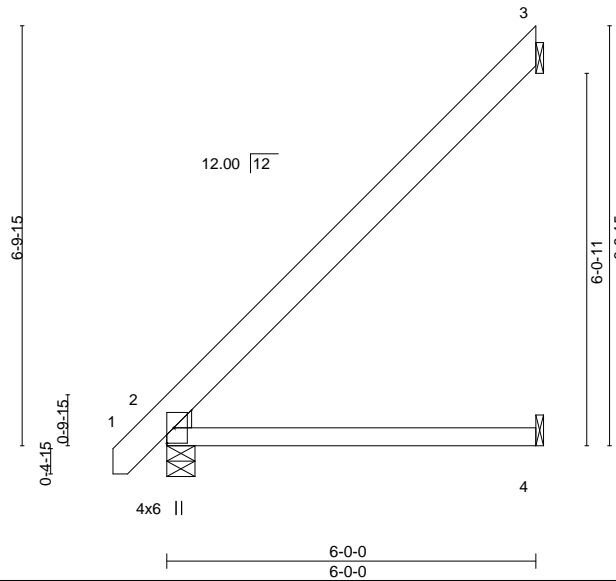


Plate Offsets (X,Y)-- [2:0-0-11,0-0-11], [2:0-1-5,0-3-11]

| LOADING (psf) | SPACING- | CSI. | DEFL. | in (loc) | l/defl | L/d | PLATES | GRIP |
|---------------|----------------------|-----------|----------------|----------|--------|-----|---------------|----------|
| TCLL 20.0 | Plate Grip DOL 1.15 | TC 0.33 | Vert(LL) -0.04 | 4-7 | >999 | 360 | MT20 | 244/190 |
| TCDL 10.0 | Lumber DOL 1.15 | BC 0.29 | Vert(CT) -0.08 | 4-7 | >858 | 240 | | |
| BCLL 0.0 * | Rep Stress Incr YES | WB 0.00 | Horz(CT) -0.02 | 3 | n/a | n/a | | |
| BCDL 10.0 | Code IRC2015/TPI2014 | Matrix-AS | Wind(LL) 0.06 | 4-7 | >999 | 240 | Weight: 33 lb | FT = 20% |

LUMBER-
 TOP CHORD 2x6 SP No.2
 BOT CHORD 2x4 SP No.2
 WEDGE
 Left: 2x4 SP No.3

BRACING-
 TOP CHORD Structural wood sheathing directly applied.
 BOT CHORD Rigid ceiling directly applied.

REACTIONS. (lb/size) 3=177/Mechanical, 2=286/0-5-8, 4=57/Mechanical
 Max Horz 2=293(LC 12)
 Max Uplift 3=216(LC 12)
 Max Grav 3=219(LC 19), 2=286(LC 1), 4=96(LC 3)

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

- NOTES-** (8)
- 1) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) 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 a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 4) All bearings are assumed to be User Defined crushing capacity of 425 psi.
 - 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) except (jt=lb) 3=216.
 - 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
 - 8) 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.



May 22, 2019

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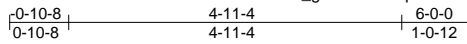
818 Soundside Road
 Edenton, NC 27932

| | | | | | | |
|--------|-------|------------|-----|-----|--------------------------|-----------|
| Job | Truss | Truss Type | Qty | Ply | H&H/Kent/ | E13078456 |
| Master | J04 | Half Hip | 6 | 1 | Job Reference (optional) | |

Builders FirstSource (Albermarle), Albermarle, NC - 28001,

8.240 s May 13 2019 MiTek Industries, Inc. Wed May 22 09:37:26 2019 Page 1

ID:h_gUcblDXiXoqL1mPMfncDza12N-ecMxD1b?lrJv8oO_mTXINGb5JX2RQNKdoUXhd6zE_XN



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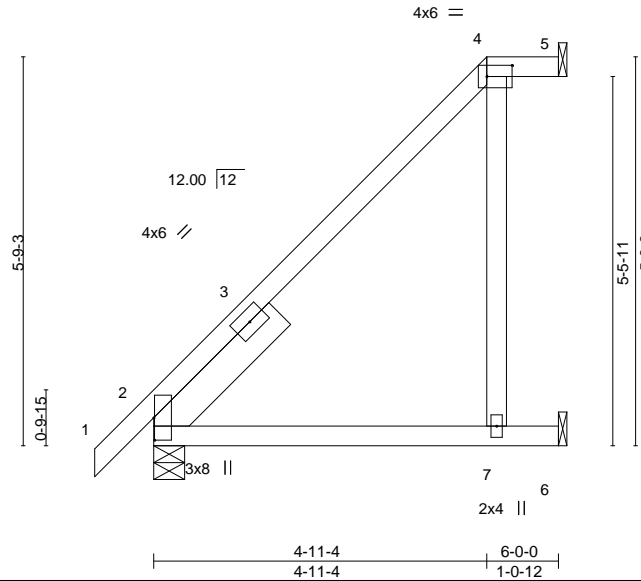


Plate Offsets (X,Y)-- [2:0-4-0,0-0-2], [4:0-4-8,0-2-0]

| LOADING (psf) | SPACING- | CSI. | DEFL. | in (loc) | l/defl | L/d | PLATES | GRIP |
|---------------|----------------------|-----------|----------------|----------|--------|-----|---------------|----------|
| TCLL 20.0 | Plate Grip DOL 1.15 | TC 0.49 | Vert(LL) 0.17 | 7-10 | >428 | 240 | MT20 | 244/190 |
| TCDL 10.0 | Lumber DOL 1.15 | BC 0.53 | Vert(CT) -0.15 | 7-10 | >480 | 240 | | |
| BCLL 0.0 * | Rep Stress Incr YES | WB 0.14 | Horz(CT) 0.13 | 5 | n/a | n/a | | |
| BCDL 10.0 | Code IRC2015/TPI2014 | Matrix-AS | | | | | Weight: 37 lb | FT = 20% |

LUMBER-
 TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2
 WEBS 2x4 SP No.3
 SLIDER Left 2x6 SP No.2 2-6-0

BRACING-
 TOP CHORD Structural wood sheathing directly applied, except 2-0-0 oc purlins: 4-5.
 BOT CHORD Rigid ceiling directly applied.

REACTIONS. (lb/size) 5=30/Mechanical, 2=294/0-5-8, 6=204/Mechanical
 Max Horz 2=255(LC 12)
 Max Uplift 5=-16(LC 8), 6=-146(LC 12)
 Max Grav 5=30(LC 1), 2=294(LC 1), 6=224(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-4=-351/154

- NOTES-** (11)
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) 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
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Bearings are assumed to be: Joint 5 User Defined crushing capacity of 425 psi, Joint 2 User Defined crushing capacity of 565 psi, Joint 6 User Defined crushing capacity of 425 psi.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5 except (jt=lb) 6=146.
 - This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - 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.



May 22, 2019

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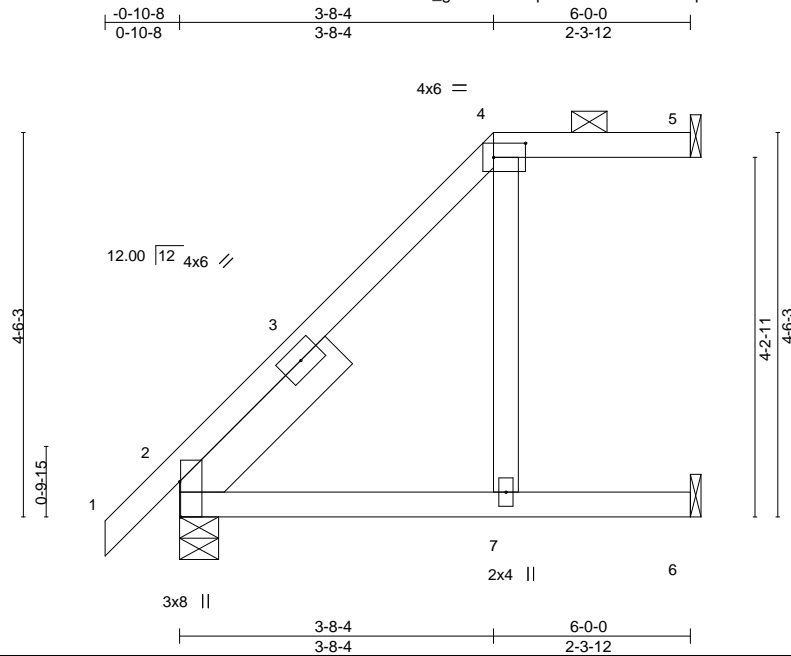


818 Soundside Road
 Edenton, NC 27932

| | | | | | | |
|---------------|--------------|------------------------|----------|----------|---------------------------------------|-----------|
| Job Master | Truss J05 | Truss Type Half Hip | Qty 6 | Ply 1 | H&H/Kent/ Job Reference (optional) | E13078457 |
|---------------|--------------|------------------------|----------|----------|---------------------------------------|-----------|

Builders FirstSource (Albermarle), Albermarle, NC - 28001,

8.240 s May 13 2019 MITek Industries, Inc. Wed May 22 09:37:27 2019 Page 1
ID:h_gUcblDXiXoqL1mPMfncDza12N-6pwJQMbdW9RmmxzBKB2_vU7HjxKw9rVm18HF9ZzE_XM



Scale = 1:27.1

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

| LOADING (psf) | SPACING- | CSI. | DEFL. | in (loc) | l/defl | L/d | PLATES | GRIP |
|---------------|----------------------|-----------|----------|----------|--------|------|---------------|----------|
| TCLL 20.0 | 2-0-0 | TC 0.39 | Vert(LL) | 0.19 | 7-10 | >379 | MT20 | 244/190 |
| TCDL 10.0 | Plate Grip DOL 1.15 | BC 0.77 | Vert(CT) | -0.20 | 7-10 | >356 | | |
| BCLL 0.0 * | Lumber DOL 1.15 | WB 0.09 | Horz(CT) | 0.25 | 5 | n/a | | |
| BCDL 10.0 | Rep Stress Incr YES | Matrix-AS | | | | | | |
| | Code IRC2015/TPI2014 | | | | | | Weight: 34 lb | FT = 20% |

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3
SLIDER Left 2x6 SP No.2 2-6-0

BRACING-

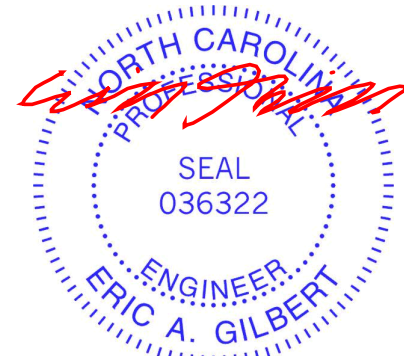
TOP CHORD Structural wood sheathing directly applied, except 2-0-0 oc purlins: 4-5.
BOT CHORD Rigid ceiling directly applied.

REACTIONS. (lb/size) 5=68/Mechanical, 2=294/0-5-8, 6=166/Mechanical
Max Horz 2=200(LC 12)
Max Uplift 5=-36(LC 8), 2=-11(LC 12), 6=-75(LC 12)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-538/271

NOTES- (11)

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) 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
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Bearings are assumed to be: Joint 5 User Defined crushing capacity of 425 psi, Joint 2 User Defined crushing capacity of 565 psi, Joint 6 User Defined crushing capacity of 425 psi.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 2, 6.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 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.



May 22, 2019

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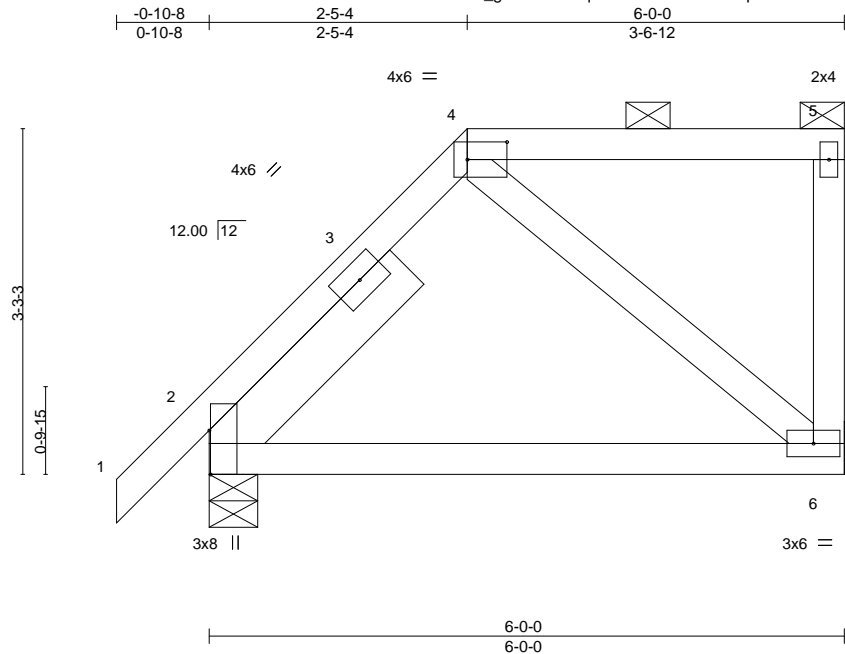
818 Soundside Road
Edenton, NC 27932

| | | | | | | |
|---------------|--------------|------------------------|----------|----------|---------------------------------------|-----------|
| Job Master | Truss J06 | Truss Type Half Hip | Qty 6 | Ply 1 | H&H/Kent/ Job Reference (optional) | E13078458 |
|---------------|--------------|------------------------|----------|----------|---------------------------------------|-----------|

Builders FirstSource (Albermarle), Albermarle, NC - 28001,

8.240 s May 13 2019 MITek Industries, Inc. Wed May 22 09:37:27 2019 Page 1

ID:h_gUcblDXiXoqL1mPMfncDza12N-6pwJQMbdW9RmmxzBKB2_vU7KGxT69swm18HF9ZzE_XM



Scale = 1:21.8

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

| LOADING (psf) | SPACING- | CSI. | DEFL. | in (loc) | l/defl | L/d | PLATES | GRIP |
|---------------|----------------------|-----------|----------------|----------|--------|-----|---------------|----------|
| TCLL 20.0 | Plate Grip DOL 1.15 | TC 0.22 | Vert(LL) -0.03 | 6-9 | >999 | 360 | MT20 | 244/190 |
| TCDL 10.0 | Lumber DOL 1.15 | BC 0.25 | Vert(CT) -0.06 | 6-9 | >999 | 240 | | |
| BCLL 0.0 * | Rep Stress Incr YES | WB 0.06 | Horz(CT) 0.01 | 2 | n/a | n/a | | |
| BCDL 10.0 | Code IRC2015/TPI2014 | Matrix-AS | Wind(LL) 0.01 | 6-9 | >999 | 240 | | |
| | | | | | | | Weight: 38 lb | FT = 20% |

LUMBER-
 TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2
 WEBS 2x4 SP No.3
 SLIDER Left 2x6 SP No.2 2-6-0

BRACING-
 TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins: 4-5.
 BOT CHORD Rigid ceiling directly applied.

REACTIONS. (lb/size) 2=291/0-5-8, 6=230/Mechanical
 Max Horz 2=144(LC 12)
 Max Uplift 2=-32(LC 12), 6=-68(LC 9)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-4=-409/73

- NOTES-** (11)
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) 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
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Bearings are assumed to be: Joint 2 User Defined crushing capacity of 565 psi, Joint 6 User Defined crushing capacity of 425 psi.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 6.
 - This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - 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.



May 22, 2019

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

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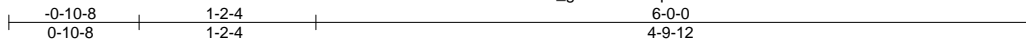
818 Soundside Road
 Edenton, NC 27932

| | | | | | | |
|---------------|--------------|-------------------------------|----------|----------|---------------------------------------|-----------|
| Job Master | Truss J07 | Truss Type Half Hip Girder | Qty 6 | Ply 1 | H&H/Kent/ Job Reference (optional) | E13078459 |
|---------------|--------------|-------------------------------|----------|----------|---------------------------------------|-----------|

Builders FirstSource (Albermarle), Albermarle, NC - 28001,

8,240 s May 13 2019 MITek Industries, Inc. Wed May 22 09:37:28 2019 Page 1

ID:h_gUcblDXiXoqL1mPMfncDza12N-a?UheicFHSZdO5YNUuZDShgRgLqouJ6wGo0oh?zE_XL



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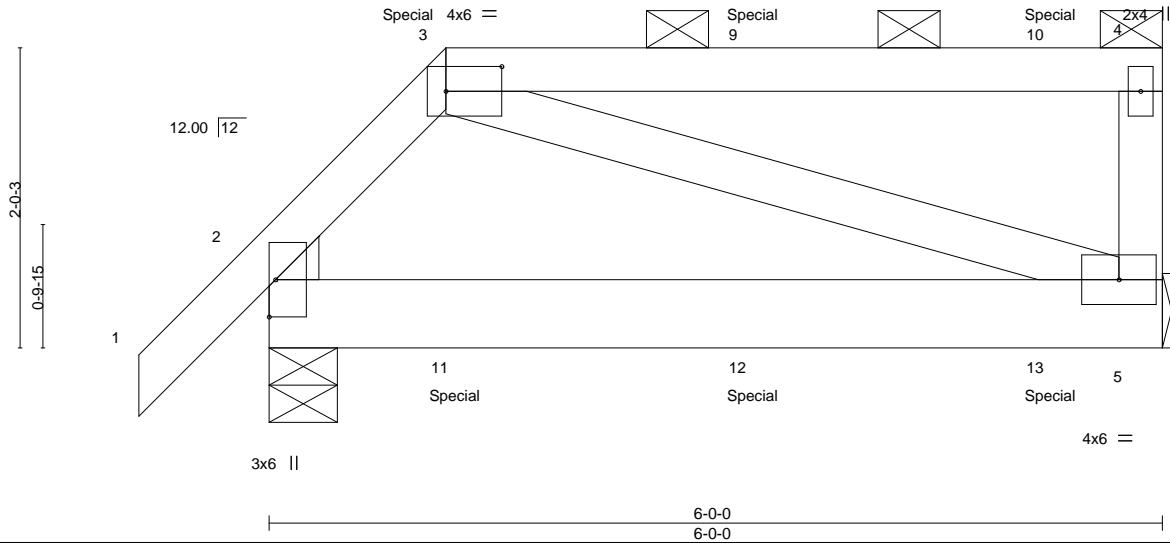


Plate Offsets (X,Y)-- [2:0-0-8,0-2-14], [2:0-0-4,0-0-4], [3:0-4-8,0-2-0]

| LOADING (psf) | SPACING- | CSI. | DEFL. | in (loc) | l/defl | L/d | PLATES | GRIP |
|---------------|----------------------|-----------|----------------|----------|--------|-----|---------------|----------|
| TCLL 20.0 | Plate Grip DOL 1.15 | TC 0.50 | Vert(LL) -0.01 | 5-8 | >999 | 360 | MT20 | 244/190 |
| TCDL 10.0 | Lumber DOL 1.15 | BC 0.16 | Vert(CT) -0.02 | 5-8 | >999 | 240 | | |
| BCLL 0.0 * | Rep Stress Incr NO | WB 0.06 | Horz(CT) 0.00 | 2 | n/a | n/a | | |
| BCDL 10.0 | Code IRC2015/TPI2014 | Matrix-MP | Wind(LL) -0.00 | 5-8 | >999 | 240 | Weight: 35 lb | FT = 20% |

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins: 3-4.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 2=306/0-5-8, 5=261/Mechanical
 Max Horz 2=89(LC 8)
 Max Uplift 2=-75(LC 8), 5=-89(LC 5)

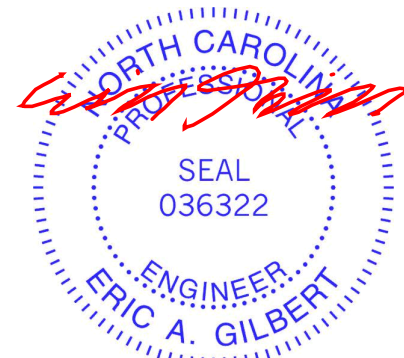
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES- (11)

- 1) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCCL=6.0psf; BCCL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; end vertical left exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Provide adequate drainage to prevent water ponding.
- 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) Bearings are assumed to be: Joint 2 User Defined crushing capacity of 565 psi, Joint 5 User Defined crushing capacity of 425 psi.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 5.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 70 lb down and 51 lb up at 1-2-4, and 79 lb down and 48 lb up at 3-3-4, and 72 lb down and 51 lb up at 5-3-4 on top chord, and 18 lb down at 1-3-4, and 18 lb down at 3-3-4, and 21 lb down at 5-3-4 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).
- 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

- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 1-3=-60, 3-4=-60, 5-6=-20
 Concentrated Loads (lb)
 Vert: 3=-2(F) 9=-2(F) 10=-12(F) 11=-8(F) 12=-8(F) 13=-13(F)



May 22, 2019

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



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| | | | | | | |
|---------------|--------------|-------------------------|-----------|----------|---------------------------------------|-----------|
| Job Master | Truss J08 | Truss Type Jack-Open | Qty 18 | Ply 1 | H&H/Kent/ Job Reference (optional) | E13078460 |
|---------------|--------------|-------------------------|-----------|----------|---------------------------------------|-----------|

Builders FirstSource (Albermarle), Albermarle, NC - 28001,

8.240 s May 13 2019 MITEK Industries, Inc. Wed May 22 09:37:29 2019 Page 1
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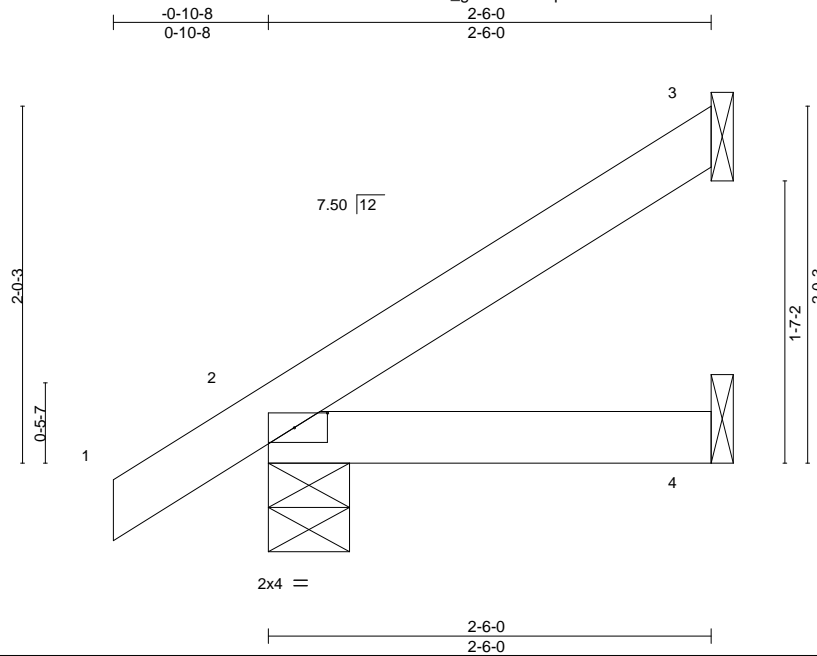


Plate Offsets (X,Y)-- [2:0-2-4,0-1-0]

| LOADING (psf) | SPACING- | CSI. | DEFL. | in (loc) | l/defl | L/d | PLATES | GRIP |
|---------------|----------------------|-----------|----------------|----------|--------|-----|---------------|----------|
| TCLL 20.0 | Plate Grip DOL 1.15 | TC 0.08 | Vert(LL) -0.00 | 7 | >999 | 360 | MT20 | 244/190 |
| TCDL 10.0 | Lumber DOL 1.15 | BC 0.07 | Vert(CT) -0.00 | 4-7 | >999 | 240 | | |
| BCLL 0.0 * | Rep Stress Incr YES | WB 0.00 | Horz(CT) 0.00 | 3 | n/a | n/a | | |
| BCDL 10.0 | Code IRC2015/TPI2014 | Matrix-MP | Wind(LL) -0.00 | 4-7 | >999 | 240 | Weight: 10 lb | FT = 20% |

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 2-6-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 3=60/Mechanical, 2=159/0-5-8, 4=28/Mechanical
Max Horz 2=88(LC 12)
Max Uplift 3=-47(LC 12), 2=-28(LC 12)
Max Grav 3=67(LC 19), 2=159(LC 1), 4=44(LC 3)

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

NOTES- (7)

- 1) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) 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 a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) All bearings are assumed to be User Defined crushing capacity of 425 psi.
- 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) 3, 2.
- 7) 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.



May 22, 2019

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

Design valid for use only with MITEK® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

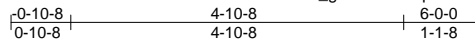


818 Soundside Road
Edenton, NC 27932

| | | | | | | |
|--------|-------|------------|-----|-----|--------------------------|-----------|
| Job | Truss | Truss Type | Qty | Ply | H&H/Kent/ | E13078461 |
| Master | J09 | Half Hip | 6 | 1 | Job Reference (optional) | |

Builders FirstSource (Albermarle), Albermarle, NC - 28001,

8.240 s May 13 2019 MiTek Industries, Inc. Wed May 22 09:37:30 2019 Page 1
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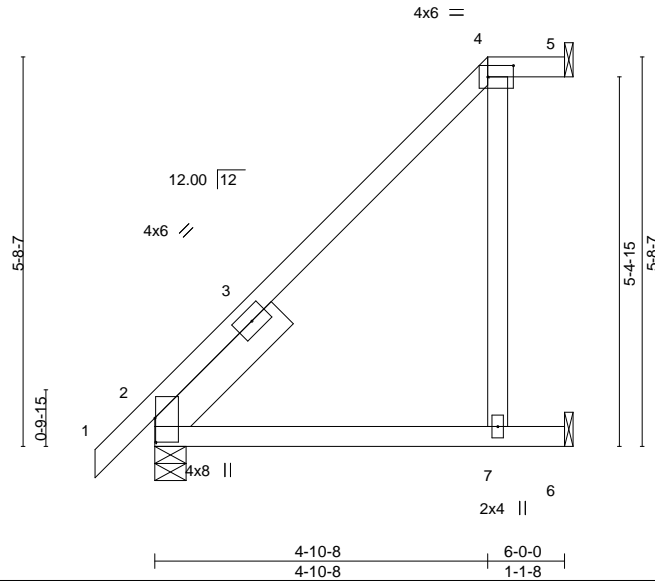


Plate Offsets (X,Y)-- [2:0-4-4,0-0-2], [4:0-4-8,0-2-0]

| LOADING (psf) | SPACING- | CSI. | DEFL. | in (loc) | l/defl | L/d | PLATES | GRIP |
|---------------|----------------------|-----------|----------------|----------|--------|-----|---------------|----------|
| TCLL 20.0 | 2-0-0 | TC 0.53 | Vert(LL) 0.18 | 7-10 | >391 | 240 | MT20 | 244/190 |
| TCDL 10.0 | Plate Grip DOL 1.15 | BC 0.58 | Vert(CT) -0.16 | 7-10 | >444 | 240 | | |
| BCLL 0.0 * | Lumber DOL 1.15 | WB 0.14 | Horz(CT) 0.15 | 5 | n/a | n/a | | |
| BCDL 10.0 | Rep Stress Incr YES | Matrix-MP | | | | | Weight: 37 lb | FT = 20% |
| | Code IRC2015/TPI2014 | | | | | | | |

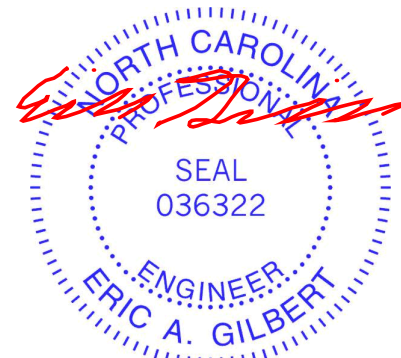
LUMBER-
 TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2
 WEBS 2x4 SP No.3
 SLIDER Left 2x6 SP No.2 2-6-0

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins: 4-5.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 5=32/Mechanical, 2=294/0-5-8, 6=202/Mechanical
 Max Horz 2=253(LC 12)
 Max Uplift 5=-17(LC 8), 6=-142(LC 12)
 Max Grav 5=32(LC 1), 2=294(LC 1), 6=221(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-4=-327/147

- NOTES-** (10)
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) 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
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Bearings are assumed to be: Joint 5 User Defined crushing capacity of 425 psi, Joint 2 User Defined crushing capacity of 565 psi, Joint 6 User Defined crushing capacity of 425 psi.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5 except (jt=lb) 6=142.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - 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.



May 22, 2019

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

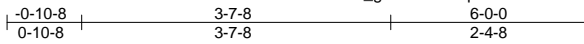


818 Soundside Road
 Edenton, NC 27932

| | | | | | | |
|---------------|--------------|------------------------|----------|----------|---------------------------------------|-----------|
| Job Master | Truss J10 | Truss Type Half Hip | Qty 6 | Ply 1 | H&H/Kent/ Job Reference (optional) | E13078462 |
|---------------|--------------|------------------------|----------|----------|---------------------------------------|-----------|

Builders FirstSource (Albermarle), Albermarle, NC - 28001,

8.240 s May 13 2019 MITek Industries, Inc. Wed May 22 09:37:31 2019 Page 1
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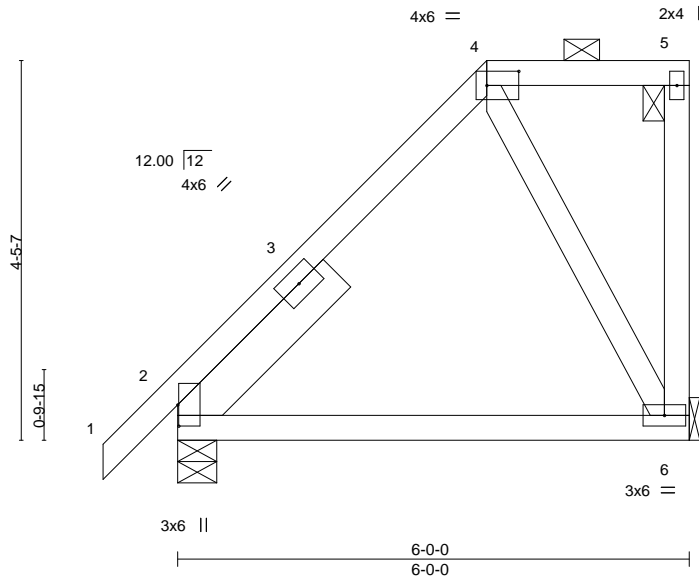


Plate Offsets (X,Y)-- [2:0-3-0,0-0-2], [4:0-4-8,0-2-0]

| LOADING (psf) | SPACING- | CSI. | DEFL. | in (loc) | l/defl | L/d | PLATES | GRIP |
|---------------|----------------------|-----------|----------------|----------|--------|-----|---------------|----------|
| TCLL 20.0 | 2-0-0 | TC 0.29 | Vert(LL) -0.03 | 6-9 | >999 | 360 | MT20 | 244/190 |
| TCDL 10.0 | Plate Grip DOL 1.15 | BC 0.28 | Vert(CT) -0.07 | 6-9 | >946 | 240 | | |
| BCLL 0.0 * | Lumber DOL 1.15 | WB 0.07 | Horz(CT) 0.02 | 2 | n/a | n/a | | |
| BCDL 10.0 | Rep Stress Incr YES | Matrix-AS | Wind(LL) 0.04 | 6-9 | >999 | 240 | | |
| | Code IRC2015/TPI2014 | | | | | | Weight: 40 lb | FT = 20% |

| LUMBER- | BRACING- |
|-------------------------------|---|
| TOP CHORD 2x4 SP No.2 | TOP CHORD Structural wood sheathing directly applied, except end verticals, and |
| BOT CHORD 2x4 SP No.2 | 2-0-0 oc purlins: 4-5. |
| WEBS 2x4 SP No.3 | BOT CHORD Rigid ceiling directly applied. |
| SLIDER Left 2x6 SP No.2 2-6-0 | |

REACTIONS. (lb/size) 2=291/0-5-8, 6=230/Mechanical
Max Horz 2=197(LC 12)
Max Uplift 2=-11(LC 12), 6=-89(LC 12)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-405/69

- NOTES-** (11)
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) 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) 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) Bearings are assumed to be: Joint 2 User Defined crushing capacity of 565 psi, Joint 6 User Defined crushing capacity of 425 psi.
 - 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) 2, 6.
 - 9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
 - 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.



May 22, 2019

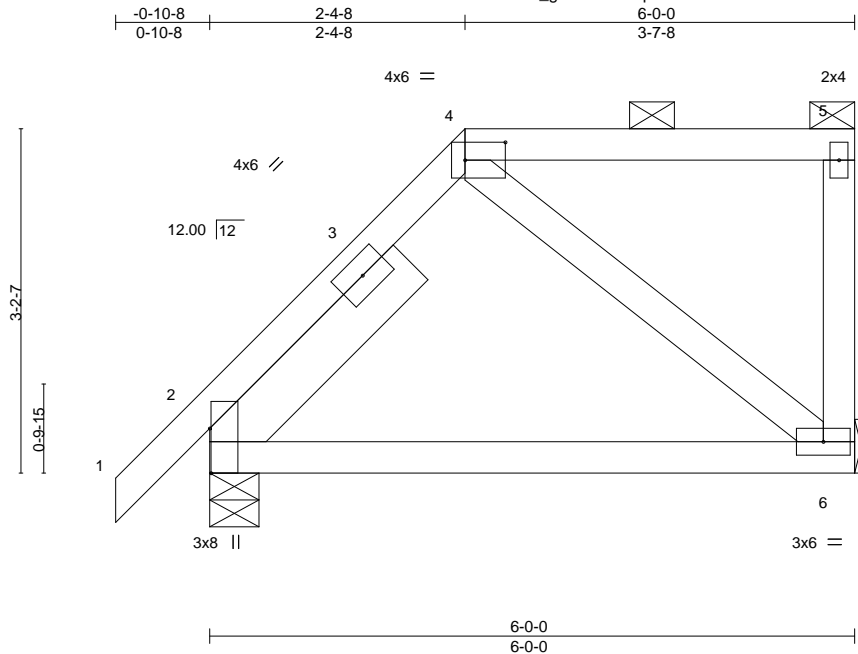
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.
Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

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Edenton, NC 27932

| | | | | | | |
|---------------|--------------|------------------------|----------|----------|---------------------------------------|-----------|
| Job Master | Truss J11 | Truss Type Half Hip | Qty 3 | Ply 1 | H&H/Kent/ Job Reference (optional) | E13078463 |
|---------------|--------------|------------------------|----------|----------|---------------------------------------|-----------|

Builders FirstSource (Albermarle), Albermarle, NC - 28001,

8.240 s May 13 2019 MITek Industries, Inc. Wed May 22 09:37:32 2019 Page 1
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Scale = 1:21.4

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

| LOADING (psf) | SPACING- | 2-0-0 | CSI. | DEFL. | in (loc) | l/defl | L/d | PLATES | GRIP |
|---------------|----------------------|-------|-----------|----------|----------|--------|------|---------------|----------|
| TCLL 20.0 | Plate Grip DOL | 1.15 | TC 0.23 | Vert(LL) | -0.03 | 6-9 | >999 | MT20 | 244/190 |
| TCDL 10.0 | Lumber DOL | 1.15 | BC 0.25 | Vert(CT) | -0.06 | 6-9 | >999 | | |
| BCLL 0.0 * | Rep Stress Incr | YES | WB 0.06 | Horz(CT) | 0.01 | 2 | n/a | | |
| BCDL 10.0 | Code IRC2015/TPI2014 | | Matrix-MP | Wind(LL) | 0.01 | 6-9 | >999 | Weight: 38 lb | FT = 20% |

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3
SLIDER Left 2x6 SP No.2 2-6-0

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins: 4-5.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 2=291/0-5-8, 6=230/Mechanical
Max Horz 2=141(LC 12)
Max Uplift 2=-33(LC 12), 6=-68(LC 9)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-408/77

NOTES- (9)

- 1) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) 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) Provide adequate drainage to prevent water ponding.
- 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) Bearings are assumed to be: Joint 2 User Defined crushing capacity of 565 psi, Joint 6 User Defined crushing capacity of 425 psi.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 6.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or 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.



May 22, 2019

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



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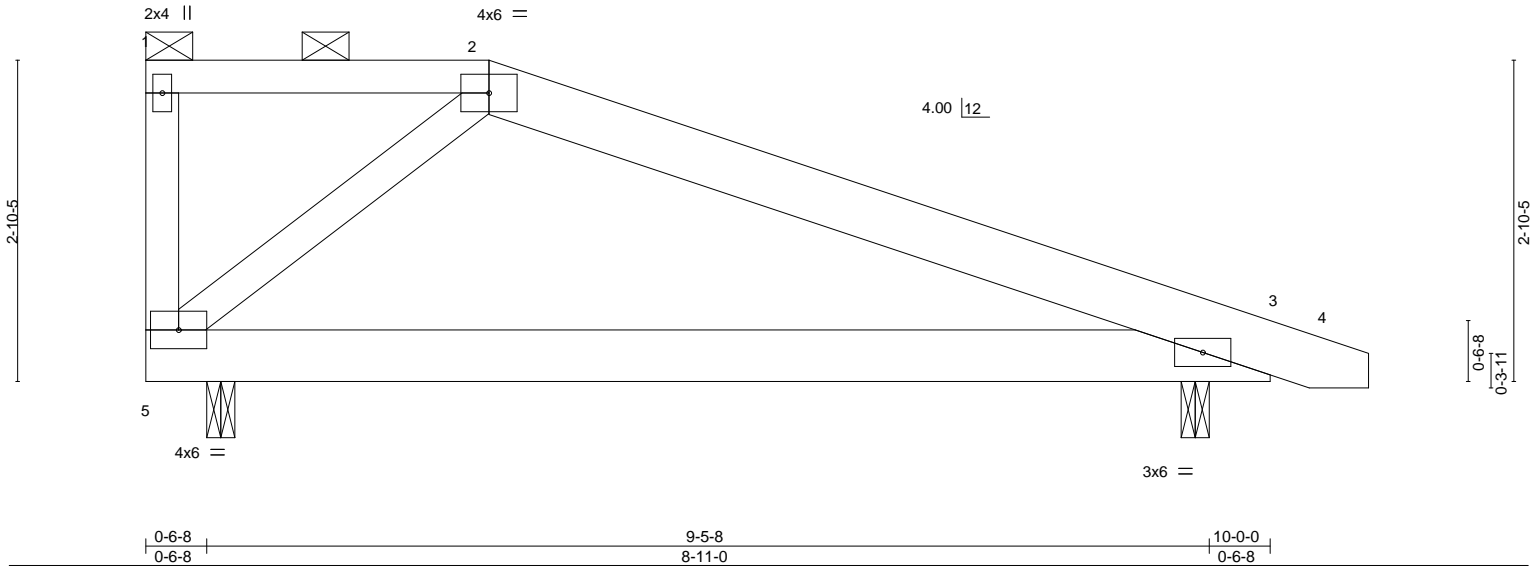
| | | | | | | |
|---------------|--------------|----------------------------|----------|----------|---------------------------------------|-----------|
| Job Master | Truss J12 | Truss Type ROOF SPECIAL | Qty 2 | Ply 1 | H&H/Kent/ Job Reference (optional) | E13078464 |
|---------------|--------------|----------------------------|----------|----------|---------------------------------------|-----------|

Builders FirstSource (Albemarle), Albemarle, NC - 28001,

8.240 s May 13 2019 MITEK Industries, Inc. Wed May 22 09:37:32 2019 Page 1
ID:h_gUcblDxiXoqL1mPMfncDza12N-TmkCU4fIKh43sjr87ke9cXr63y9Tq5RVBQ_0qzmzE_XH



Scale = 1:20.5



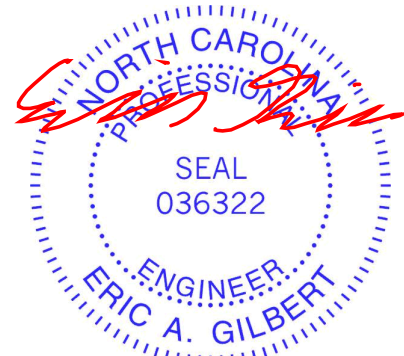
| | | | | | |
|----------------------|----------------------|-------------|------------------------------|---------------|-------------|
| LOADING (psf) | SPACING- | CSI. | DEFL. | PLATES | GRIP |
| TCLL 20.0 | 2-0-0 | TC 0.48 | in (loc) l/defl L/d | MT20 | 244/190 |
| TCDL 10.0 | Plate Grip DOL 1.15 | BC 0.30 | Vert(LL) -0.05 5-10 >999 360 | | |
| BCLL 0.0 * | Lumber DOL 1.15 | WB 0.10 | Vert(CT) -0.11 5-10 >999 240 | | |
| BCDL 10.0 | Rep Stress Incr YES | Matrix-AS | Horz(CT) 0.00 3 n/a n/a | Weight: 56 lb | FT = 20% |
| | Code IRC2015/TPI2014 | | Wind(LL) 0.03 5-10 >999 240 | | |

| | |
|--|--|
| LUMBER- | BRACING- |
| TOP CHORD 2x4 SP No.2 *Except* 2-4: 2x6 SP No.2 | TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 1-2. |
| BOT CHORD 2x6 SP No.2 | BOT CHORD Rigid ceiling directly applied. |
| WEBS 2x4 SP No.3 | |

REACTIONS. (lb/size) 5=368/0-3-0, 3=457/0-3-0
Max Horz 5=-119(LC 9)
Max Uplift 5=-107(LC 9), 3=-123(LC 9)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-340/152
BOT CHORD 3-5=-39/286
WEBS 2-5=-326/251

- NOTES-** (8)
- 1) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) Provide adequate drainage to prevent water ponding.
 - 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 5=107, 3=123.
 - 6) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
 - 7) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - 8) 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.



May 22, 2019

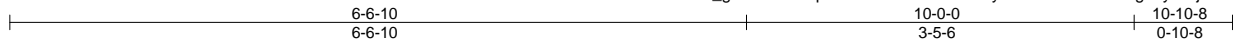
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

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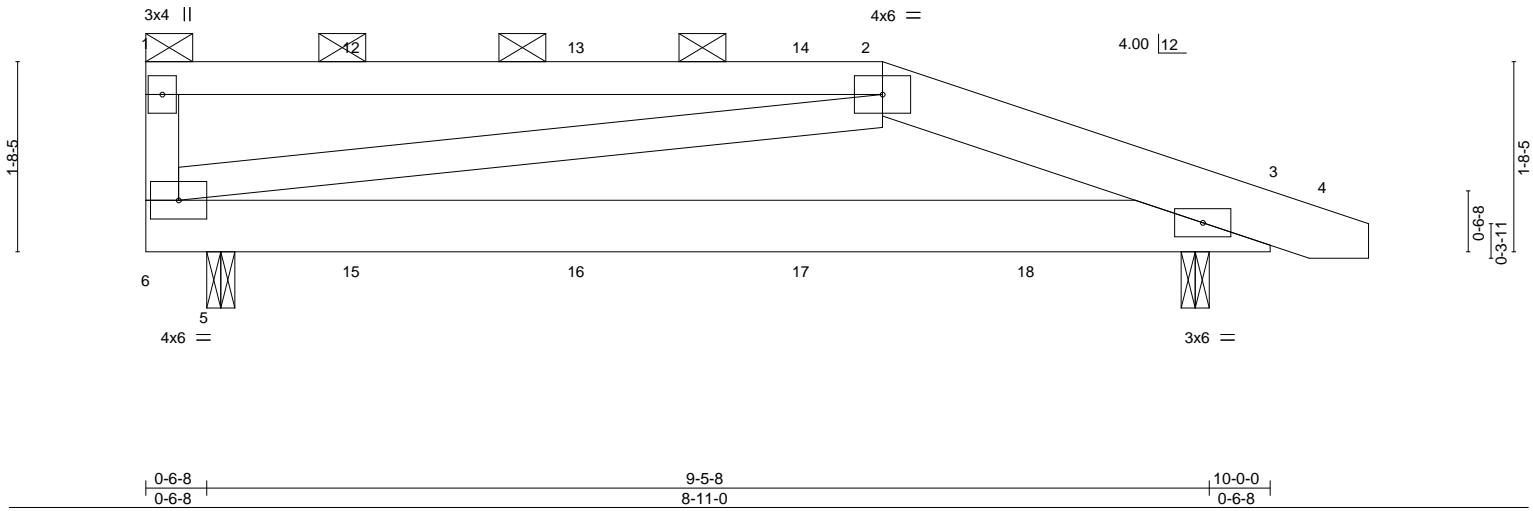
| | | | | | | |
|--------|-------|---------------------|-----|-----|--------------------------|-----------|
| Job | Truss | Truss Type | Qty | Ply | H&H/Kent/ | E13078465 |
| Master | J13 | ROOF SPECIAL GIRDER | 2 | 1 | Job Reference (optional) | |

Builders FirstSource (Albermarle), Albermarle, NC - 28001,

8.240 s May 13 2019 MiTek Industries, Inc. Wed May 22 09:37:34 2019 Page 1
ID:h_gUcblDxiXoqL1mPMfncDza12N-P9ryumh0slKn60?XE9gdhywQjlrOlxxoekT7vzE_XF



Scale = 1:20.5



| LOADING (psf) | SPACING- | CSL | DEFL. | PLATES | GRIP |
|---------------|----------------------|-----------|------------------------------|---------------|----------|
| TCLL 20.0 | 2-0-0 | TC 0.59 | in (loc) l/defl L/d | MT20 | 244/190 |
| TCDL 10.0 | Plate Grip DOL 1.15 | BC 0.27 | Vert(LL) -0.03 5-11 >999 360 | | |
| BCLL 0.0 * | Lumber DOL 1.15 | WB 0.36 | Vert(CT) -0.06 5-11 >999 240 | | |
| BCDL 10.0 | Rep Stress Incr NO | Matrix-MS | Horz(CT) 0.00 3 n/a n/a | Weight: 55 lb | FT = 20% |
| | Code IRC2015/TPI2014 | | Wind(LL) 0.03 5-11 >999 240 | | |

LUMBER-

TOP CHORD 2x4 SP No.2 *Except*
2-4: 2x6 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.2

BRACING-

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.): 1-2.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 5=398/0-3-0, 3=453/0-3-0
Max Horz 5=-67(LC 21)
Max Uplift 5=-229(LC 4), 3=-248(LC 5)

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

TOP CHORD 2-3=-607/317
BOT CHORD 5-6=-309/561, 3-5=-252/561
WEBS 2-6=-473/261

NOTES- (9)

- 1) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Provide adequate drainage to prevent water ponding.
- 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 5=229, 3=248.
- 6) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 40 lb down and 28 lb up at 0-1-12, 57 lb down and 22 lb up at 1-11-4, and 57 lb down and 22 lb up at 3-11-4, and 57 lb down and 22 lb up at 5-11-4 on top chord, and 8 lb down and 19 lb up at 0-1-12, 2 lb down and 19 lb up at 1-11-4, 2 lb down and 19 lb up at 3-11-4, and 2 lb down and 19 lb up at 5-11-4, and 20 lb down and 35 lb up at 7-11-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).
- 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

- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-60, 2-4=-60, 6-7=-20
Concentrated Loads (lb)
Vert: 6=-2(F) 1=-1(F) 15=-1(F) 16=-1(F) 17=-1(F) 18=-20(F)



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

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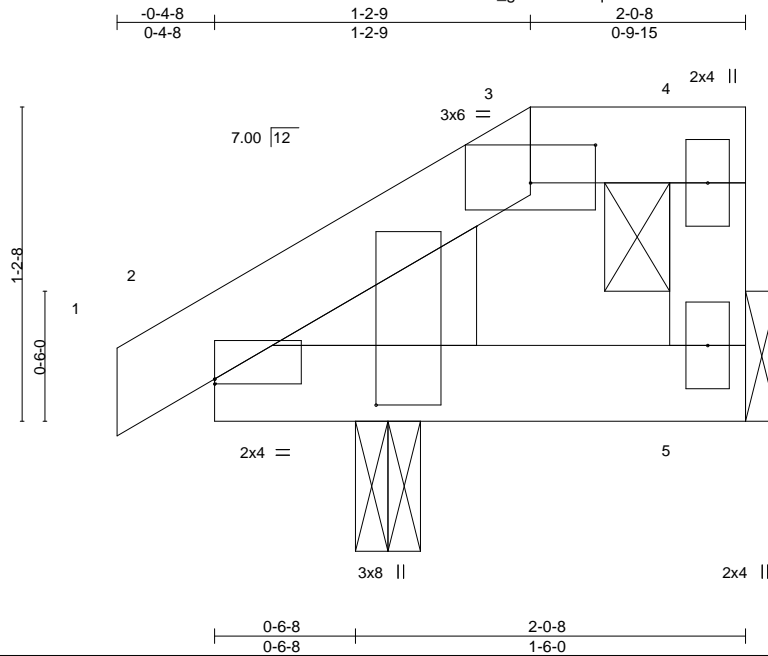


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| | | | | | | |
|---------------|--------------|------------------------|----------|----------|---------------------------------------|-----------|
| Job Master | Truss J14 | Truss Type HALF HIP | Qty 2 | Ply 1 | H&H/Kent/ Job Reference (optional) | E13078466 |
|---------------|--------------|------------------------|----------|----------|---------------------------------------|-----------|

Builders FirstSource (Albermarle), Albermarle, NC - 28001,

8.240 s May 13 2019 MITEK Industries, Inc. Wed May 22 09:37:35 2019 Page 1
ID:h_gUcblDxiXoqL1mPMfncDza12N-tLPK66iedcSekAajosBsEATkI9FX1TpytODgR5zE_XE



Scale = 1:8.9

Plate Offsets (X,Y)-- [2:0-1-3,0-7-7], [2:0-0-0,0-0-4], [3:0-3-0,0-1-12]

| LOADING (psf) | SPACING- | CSL | DEFL. | in (loc) | l/defl | L/d | PLATES | GRIP |
|---------------|----------------------|-----------|----------------|----------|--------|-----|---------------|----------|
| TCLL 20.0 | Plate Grip DOL 1.15 | TC 0.03 | Vert(LL) -0.00 | 6 | >999 | 360 | MT20 | 244/190 |
| TCDL 10.0 | Lumber DOL 1.15 | BC 0.02 | Vert(CT) -0.00 | 6 | >999 | 240 | | |
| BCLL 0.0 * | Rep Stress Incr YES | WB 0.00 | Horz(CT) -0.00 | 2 | n/a | n/a | | |
| BCDL 10.0 | Code IRC2015/TPI2014 | Matrix-MR | Wind(LL) 0.00 | 10 | >999 | 240 | | |
| | | | | | | | Weight: 10 lb | FT = 20% |

LUMBER-
 TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2
 WEBS 2x4 SP No.3
 WEDGE
 Left: 2x6 SP No.2

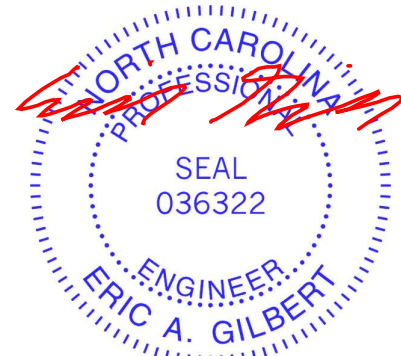
BRACING-
 TOP CHORD Structural wood sheathing directly applied or 2-0-8 oc purlins, except end verticals, and 2-0-0 oc purlins: 3-4.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 5=33/Mechanical, 2=141/0-3-0
 Max Horz 2=41(LC 12)
 Max Uplift 5=-20(LC 8), 2=-25(LC 12)
 Max Grav 5=39(LC 24), 2=141(LC 1)

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

NOTES- (9)

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) 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
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 2.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 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.



May 22, 2019

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| | | | | | | |
|---------------|--------------|-------------------------|----------|----------|---------------------------------------|-----------|
| Job Master | Truss J15 | Truss Type JACK-OPEN | Qty 8 | Ply 1 | H&H/Kent/ Job Reference (optional) | E13078467 |
|---------------|--------------|-------------------------|----------|----------|---------------------------------------|-----------|

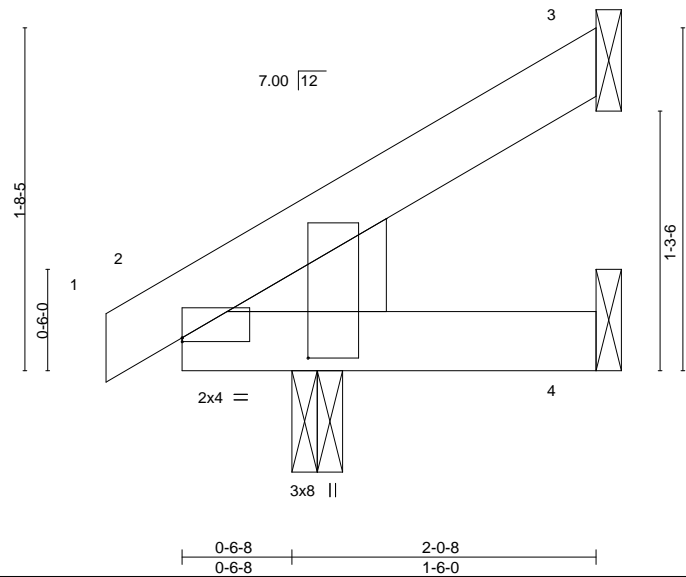
Builders FirstSource (Albermarle), Albermarle, NC - 28001,

8.240 s May 13 2019 MiTek Industries, Inc. Wed May 22 09:37:35 2019 Page 1

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Scale = 1:11.4



| | |
|-----------------------|----------------------------------|
| Plate Offsets (X,Y)-- | [2:0-0-0,0-0-4], [2:0-1-3,0-7-7] |
|-----------------------|----------------------------------|

| LOADING (psf) | SPACING- | CSI. | DEFL. | in (loc) | l/defl | L/d | PLATES | GRIP |
|---------------|----------------------|-----------|----------------|----------|--------|-----|--------------|----------|
| TCLL 20.0 | Plate Grip DOL 1.15 | TC 0.02 | Vert(LL) 0.00 | 9 | >999 | 240 | MT20 | 244/190 |
| TCDL 10.0 | Lumber DOL 1.15 | BC 0.03 | Vert(CT) -0.00 | 9 | >999 | 240 | | |
| BCLL 0.0 * | Rep Stress Incr YES | WB 0.00 | Horz(CT) -0.00 | 3 | n/a | n/a | | |
| BCDL 10.0 | Code IRC2015/TPI2014 | Matrix-MP | | | | | Weight: 9 lb | FT = 20% |

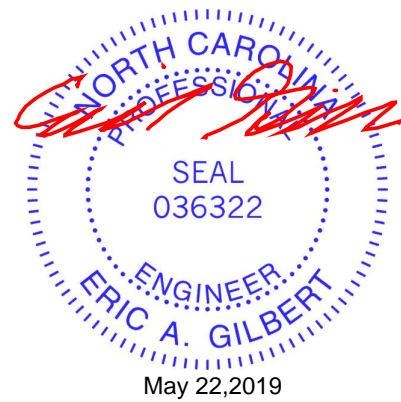
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEDGE
Left: 2x6 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-0-8 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 3=26/Mechanical, 4=11/Mechanical, 2=143/0-3-0
Max Horz 2=60(LC 12)
Max Uplift 3=-29(LC 12), 4=-12(LC 9), 2=-19(LC 9)
Max Grav 3=30(LC 19), 4=21(LC 3), 2=143(LC 1)

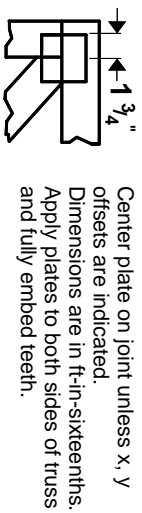
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

- NOTES-** (6)
- 1) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) 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 a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 4) Refer to girder(s) for truss to truss connections.
 - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 4, 2.
 - 6) 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.

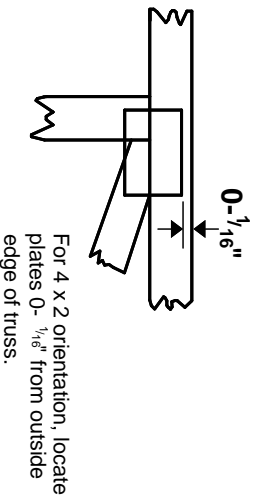


Symbols

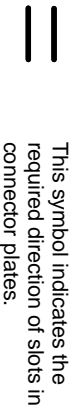
PLATE LOCATION AND ORIENTATION



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



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



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

PLATE SIZE

4 X 4

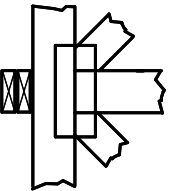
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



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

BEARING

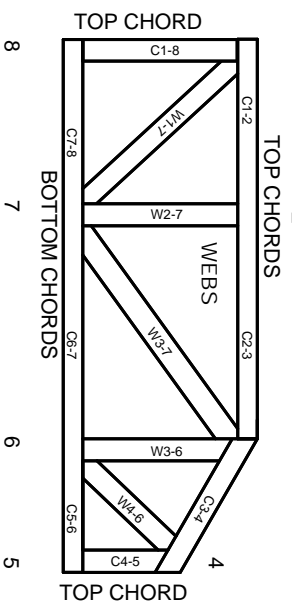


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

Industry Standards:

ANSI/TP1: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-89: Design Standard for Bracing.
BCSI: Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

Numbering System



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

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

PRODUCT CODE APPROVALS

ICC-ES Reports:

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

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

Lumber design values are in accordance with ANSI/TP1 section 6.3 These truss designs rely on lumber values established by others.

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MITek Engineering Reference Sheet: Mill-7473 rev. 10/03/2015



General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

1. Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI.
2. Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor I bracing should be considered.
3. Never exceed the design loading shown and never stack materials on inadequately braced trusses.
4. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
5. Cut members to bear tightly against each other.
6. Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TP1.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TP1.
8. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
9. Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
10. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
11. Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
12. Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
13. Top chords must be sheathed or purlins provided at spacing indicated on design.
14. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
15. Connections not shown are the responsibility of others.
16. Do not cut or alter truss member or plate without prior approval of an engineer.
17. Install and load vertically unless indicated otherwise.
18. Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
19. Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
20. Design assumes manufacture in accordance with ANSI/TP1 Quality Criteria.