ENGINEERING BY TRENCO
A MiTek Affiliate

**Trenco**
818 Soundside Rd
Edenton, NC 27932

RE: 763062_NC_OFA - H&H-NC/Calabash/

**Site Information:**

Project Customer: H and H Project Name: 763062_NC_OFA
Lot/Block: A Subdivision: ALL
Model:
Address:
City: Fayetteville State: NC

**General Truss Engineering Criteria & Design Loads (Individual Truss Design Drawings Show Special Loading Conditions):**

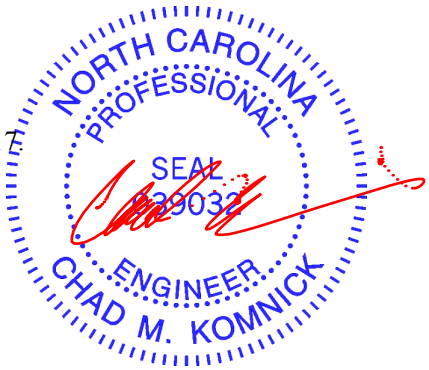
Design Code: IRC2009/TPI2007
Design Program: MiTek 20/20 7.6
Wind Code: ASCE 7-05 Wind Speed: 130 mph
Design Method: MWFRS(low-rise)/C-C hybrid Wind ASCE 7-05
Roof Load: 40.0 psf
Floor Load: N/A psf

Mean Roof Height (feet): 25
Exposure Category: C

| No. | Seal# | Truss Name | Date | No. | Seal# | Truss Name | Date |
|---|---|---|---|---|---|---|---|
| 1 | I29418234 | A01 | 3/30/17 | 35 | I29418268 | C03 | 3/30/17 |
| 2 | I29418235 | A02 | 3/30/17 | 36 | I29418269 | D01 | 3/30/17 |
| 3 | I29418236 | A03 | 3/30/17 | 37 | I29418270 | D02 | 3/30/17 |
| 4 | I29418237 | A04 | 3/30/17 | 38 | I29418271 | FG01 | 3/30/17 |
| 5 | I29418238 | A05 | 3/30/17 | 39 | I29418272 | G01 | 3/30/17 |
| 6 | I29418239 | A06 | 3/30/17 | 40 | I29418273 | G02 | 3/30/17 |
| 7 | I29418240 | A07 | 3/30/17 | 41 | I29418274 | J01 | 3/30/17 |
| 8 | I29418241 | A08 | 3/30/17 | 42 | I29418275 | J02 | 3/30/17 |
| 9 | I29418242 | A09 | 3/30/17 | 43 | I29418276 | J03 | 3/30/17 |
| 10 | I29418243 | A10 | 3/30/17 | 44 | I29418277 | J03A | 3/30/17 |
| 11 | I29418244 | A11 | 3/30/17 | 45 | I29418278 | J04 | 3/30/17 |
| 12 | I29418245 | A12 | 3/30/17 | 46 | I29418279 | J04A | 3/30/17 |
| 13 | I29418246 | A13 | 3/30/17 | 47 | I29418280 | J05 | 3/30/17 |
| 14 | I29418247 | A14 | 3/30/17 | 48 | I29418281 | J06 | 3/30/17 |
| 15 | I29418248 | A15 | 3/30/17 | 49 | I29418282 | PB01 | 3/30/17 |
| 16 | I29418249 | A16 | 3/30/17 | 50 | I29418283 | PB02 | 3/30/17 |
| 17 | I29418250 | A17 | 3/30/17 | 51 | I29418284 | PB03 | 3/30/17 |
| 18 | I29418251 | A18 | 3/30/17 | 52 | I29418285 | PB04 | 3/30/17 |
| 19 | I29418252 | A19 | 3/30/17 | 53 | I29418286 | PB05 | 3/30/17 |
| 20 | I29418253 | A20 | 3/30/17 | 54 | I29418287 | PB06 | 3/30/17 |
| 21 | I29418254 | A21 | 3/30/17 | 55 | I29418288 | PB07 | 3/30/17 |
| 22 | I29418255 | A22 | 3/30/17 | 56 | I29418289 | PB08 | 3/30/17 |
| 23 | I29418256 | A23 | 3/30/17 | 57 | I29418290 | PB09 | 3/30/17 |
| 24 | I29418257 | A24 | 3/30/17 | 58 | I29418291 | PB10 | 3/30/17 |
| 25 | I29418258 | A25 | 3/30/17 | 59 | I29418292 | V01 | 3/30/17 |
| 26 | I29418259 | A26 | 3/30/17 | 60 | I29418293 | V02 | 3/30/17 |
| 27 | I29418260 | A27 | 3/30/17 | 61 | I29418294 | V03 | 3/30/17 |
| 28 | I29418261 | A28 | 3/30/17 | 62 | I29418295 | V04 | 3/30/17 |
| 29 | I29418262 | B01 | 3/30/17 | | | | |
| 30 | I29418263 | B02 | 3/30/17 | | | | |
| 31 | I29418264 | B03 | 3/30/17 | | | | |
| 32 | I29418265 | B04 | 3/30/17 | | | | |
| 33 | I29418266 | C01 | 3/30/17 | | | | |
| 34 | I29418267 | C02 | 3/30/17 | | | | |

The truss drawing(s) referenced above have been prepared by MiTek USA, Inc. under my direct supervision based on the parameters provided by Builders FirstSource-Sumter,SC.

Truss Design Engineer's Name: Komnick, Chad
My license renewal date for the state of North Carolina is December 31, 2017.




**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.

March 30,2017

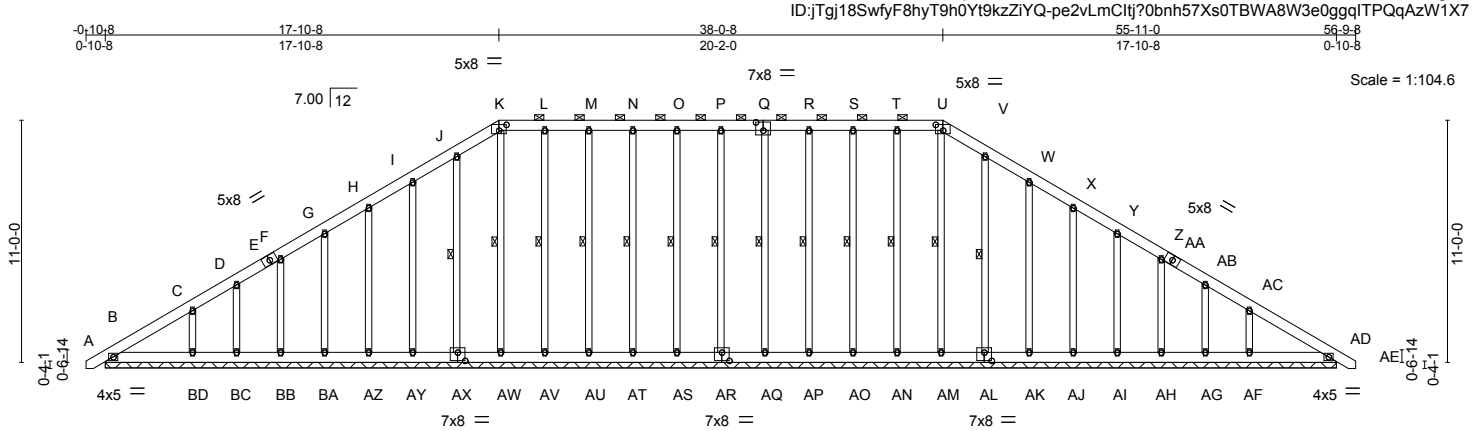


Komnick, Chad

| Job | Truss | Truss Type | Qty | Ply | H&H-NC/Calabash/ I29418234 |
|---|---|---|---|---|---|
| 763062_NC_OFA | A01 | GABLE | 6 | 1 | Job Reference (optional) |

Builders FirstSource, Sumter, SC

7.640 s Sep 29 2015 MiTek Industries, Inc. Wed Mar 29 15:29:42 2017 Page 1
ID:jTgj18SwfyF8hyT9h0Yt9kzZiYQ-pe2vLmCltj?0bnh57Xs0TBWA8W3e0ggqlTPQqAzW1X7




55-11-0
55-11-0

Plate Offsets (X,Y)-- [K:0-4-0,0-3-3], [Q:0-4-0,0-4-8], [U:0-4-0,0-3-3], [AL:0-4-0,0-4-8], [AR:0-4-0,0-4-8], [AX: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 | 0.10 | Vert(LL) | 0.00 | AE | n/r | 120 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.09 | Vert(TL) | 0.00 | AE | n/r | 120 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.15 | Horz(TL) | 0.02 | AD | n/a | n/a | | |
| BCDL | 10.0 | Code IRC2009/TPI2007 | | (Matrix) | | | | | | | Weight: 559 lb | FT = 20% |

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

**BRACING-**
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): K-U.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt P-AR, O-AS, N-AT, M-AU, L-AV, K-AW, J-AX, Q-AQ, R-AP, S-AO, T-AN, U-AM, V-AL

**REACTIONS.** All bearings 55-11-0.
(lb) - Max Horz B=692(LC 7)
Max Uplift All uplift 100 lb or less at joint(s) AD, AM except B=-200(LC 6), AR=-152(LC 6), AS=-156(LC 7), AT=-157(LC 6), AU=-167(LC 6), AV=-162(LC 7), AW=-103(LC 7), AX=-153(LC 8), AY=-198(LC 8), AZ=-185(LC 8), BA=-184(LC 8), BB=-193(LC 8), BC=-126(LC 8), BD=-357(LC 8), AQ=-157(LC 7), AP=-162(LC 6), AO=-164(LC 6), AN=-161(LC 7), AL=-143(LC 9), AK=-201(LC 9), AJ=-185(LC 9), AI=-184(LC 9), AH=-193(LC 9), AG=-126(LC 9), AF=-355(LC 9)
Max Grav All reactions 250 lb or less at joint(s) B, AD, AR, AS, AT, AU, AV, AW, AX, AY, AZ, BA, BB, BC, AQ, AP, AO, AN, AM, AL, AK, AJ, AI, AH, AG except BD=310(LC 13), AF=310(LC 14)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-C=-596/464, C-D=-447/430, D-E=-386/420, E-F=-375/427, F-G=-306/416, G-H=-227/406, H-I=-149/438, I-J=-70/527, J-K=-51/588, K-L=-17/553, L-M=-16/554, M-N=-16/554, N-O=-16/554, O-P=-16/554, P-Q=-16/553, Q-R=-15/552, R-S=-15/552, S-T=-15/552, T-U=-15/551, U-V=-49/577, V-W=-49/486, W-X=-49/369, X-Y=-49/258, AC-AD=-323/143
BOT CHORD B-BD=-110/407, BC-BD=-110/407, BB-BC=-110/407, BA-BB=-110/407, AZ-BA=-110/407, AY-AZ=-110/407, AX-AY=-110/407, AW-AX=-110/408, AV-AW=-109/407, AU-AV=-109/407, AT-AU=-109/407, AS-AT=-109/407, AR-AS=-109/407, AQ-AR=-108/407, AP-AQ=-107/408, AO-AP=-107/408, AN-AO=-107/408, AM-AN=-107/408, AL-AM=-107/409, AK-AL=-107/408, AJ-AK=-107/408, AI-AJ=-107/408, AH-AI=-107/408, AG-AH=-107/408, AF-AG=-107/408, AD-AF=-107/408
WEBS C-BD=-217/374, AC-AF=-217/372

**NOTES-** (14)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
5) Provide adequate drainage to prevent water ponding.
6) All plates are 2x4 MT20 unless otherwise indicated.
7) Gable requires continuous bottom chord bearing.
8) Gable studs spaced at 2-0-0 oc.
9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
10) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

Continued on page 2


March 30,2017



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

**NOTES-** (14)

11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) AD, AM except (jt=lb) B=200, AR=152, AS=156, AT=157, AU=167, AV=162, AW=103, AX=153, AY=198, AZ=185, BA=184, BB=193, BC=126, BD=357, AQ=157, AP=162, AO=164, AN=161, AL=143, AK=201, AJ=185, AI=184, AH=193 , AG=126, AF=355.
12) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
14) 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-NC/Calabash/ I29418235 |
|---|---|---|---|---|---|
| 763062_NC_OFA | A02 | PIGGYBACK BASE | 6 | 1 | Job Reference (optional) |

Builders FirstSource, Sumter, SC — 7.640 s Sep 29 2015 MiTek Industries, Inc. Wed Mar 29 15:29:43 2017 Page 1
ID:jTgj18SwfyF8hyT9h0Yt9kzZiYQ-HqcHZ6Dwe17sCxGIhFNF0P3C7wG6lxR_X79_NczW1X6

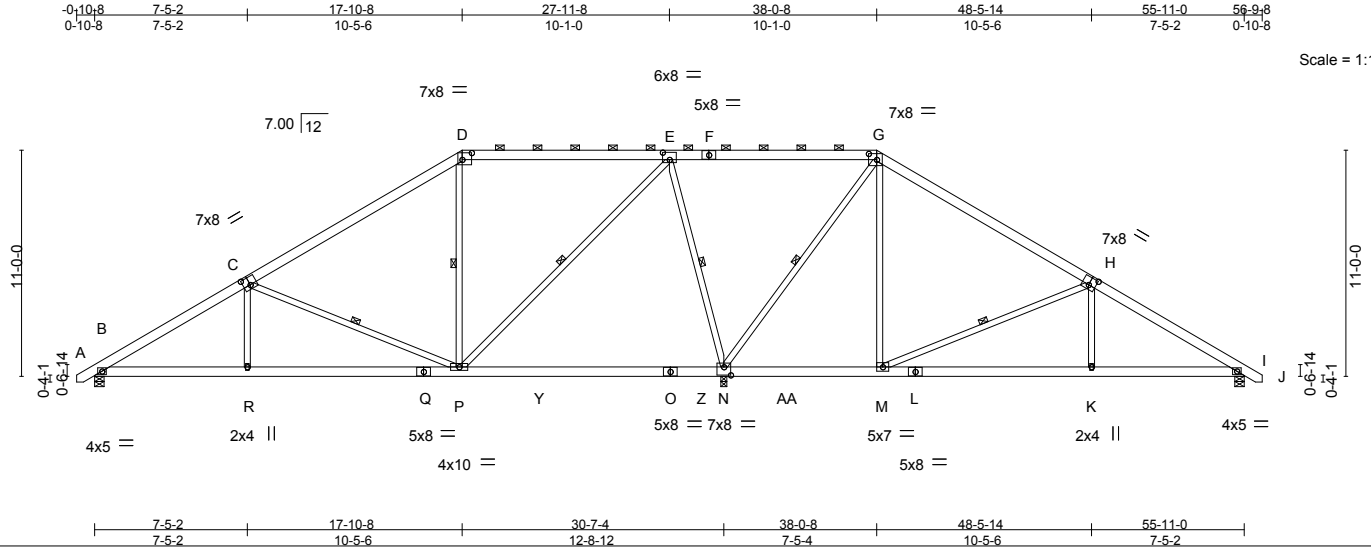



Plate Offsets (X,Y)-- [C:0-4-0,0-4-8], [D:0-5-8,0-4-0], [E:0-4-0,0-4-4], [G:0-4-12,0-3-8], [H:0-4-0,0-4-8], [N:0-4-0,0-4-12]

| 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 | 0.66 | Vert(LL) | -0.27 | N-P | >999 | 360 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.65 | Vert(TL) | -0.49 | N-P | >757 | 240 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.95 | Horz(TL) | 0.04 | I | n/a | n/a | | |
| BCDL | 10.0 | Code IRC2009/TPI2007 | | (Matrix-S) | | Wind(LL) | 0.08 | P-R | >999 | 240 | Weight: 409 lb | FT = 20% |

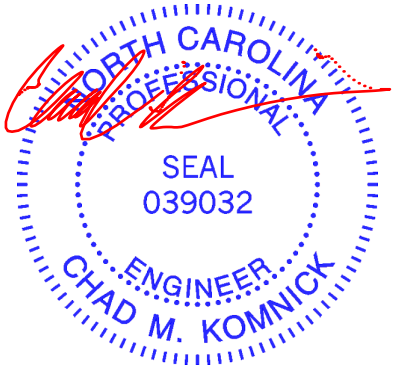
**LUMBER-**
TOP CHORD 2x6 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3 *Except*
E-P,G-N: 2x4 SP No.2

**BRACING-**
TOP CHORD Structural wood sheathing directly applied, except 2-0-0 oc purlins (6-0-0 max.): D-G.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt C-P, D-P, E-P, E-N, G-N, H-M

**REACTIONS.** (lb/size) B=1046/0-5-8, N=2725/0-3-8, I=787/0-5-8
Max Horz B=546(LC 7)
Max Uplift B=-461(LC 8), N=-848(LC 7), I=-430(LC 9)
Max Grav B=1095(LC 13), N=2736(LC 2), I=841(LC 14)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-C=-1654/1206, C-D=-889/763, D-E=-631/878, E-F=-47/634, F-G=-47/634, G-H=-376/398, H-I=-1178/820
BOT CHORD B-R=-925/1367, Q-R=-926/1366, P-Q=-926/1366, P-Y=-263/589, O-Y=-263/589, O-Z=-263/589, N-Z=-263/589, N-AA=-1/363, M-AA=-1/363, L-M=-508/955, K-L=-508/955, I-K=-507/956
WEBS C-R=0/335, C-P=-806/936, D-P=-270/361, E-P=-804/1166, E-N=-1524/1418, G-N=-1254/996, G-M=-262/571, H-M=-840/927, H-K=0/392

**NOTES-** (10)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Exterior(2) zone; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) B=461, N=848, I=430.
8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and ½" gypsum sheetrock be applied directly to the bottom chord.
9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
10) This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.




March 30,2017



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

| Job | Truss | Truss Type | Qty | Ply | H&H-NC/Calabash/ |
|---|---|---|---|---|---|
| 763062_NC_OFA | A03 | PIGGYBACK BASE | 11 | 1 | I29418236 |
| | | | | | Job Reference (optional) |

Builders FirstSource, Sumter, SC

7.640 s Sep 29 2015 MiTek Industries, Inc. Wed Mar 29 15:29:44 2017 Page 1
ID:jTgj18SwfyF8hyT9h0Yt9kzZiYQ-I1AgmSEYPKFjq5rUEyvUYccM6JdlUOW7mnuXv2zW1X5

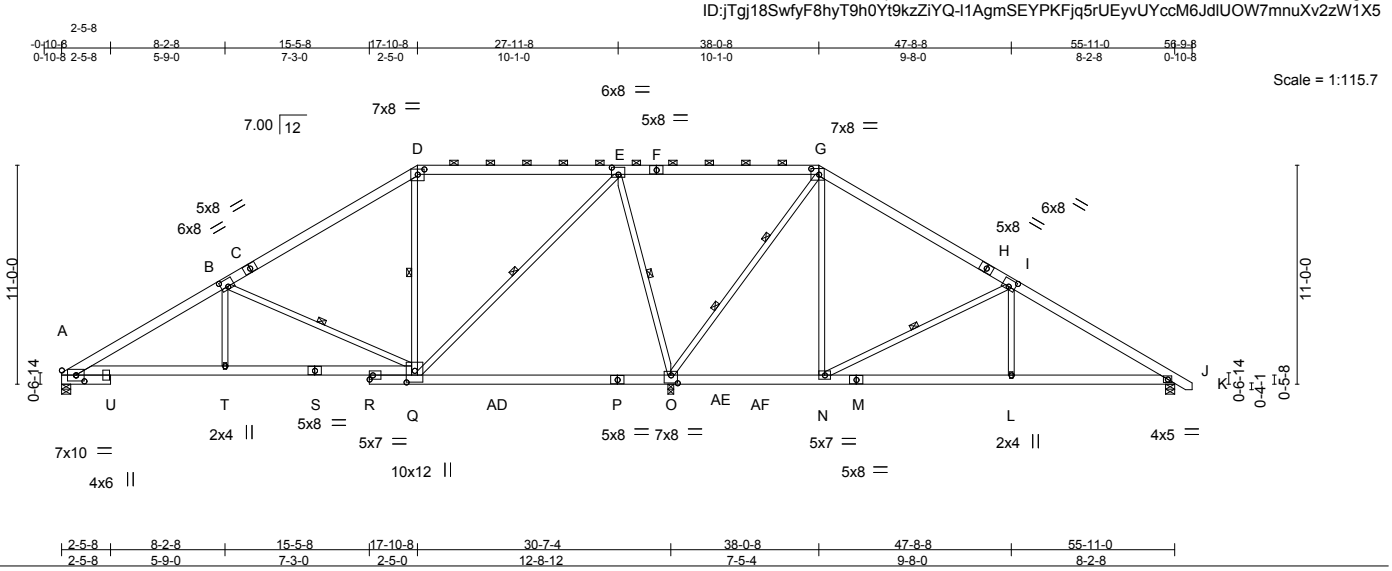



Plate Offsets (X,Y)-- [A:0-5-0,0-3-9], [A:0-2-15,0-8-9], [B:0-4-0,0-4-4], [D:0-4-0,0-3-3], [E:0-4-0,0-4-4], [G:0-4-12,0-3-8], [I:0-4-0,0-4-4], [O:0-4-0,0-4-12], [Q:0-7-0,0-5-0]

| 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 | 0.71 | Vert(LL) | -0.24 | O-Q | >999 | 360 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.62 | Vert(TL) | -0.44 | O-Q | >831 | 240 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.96 | Horz(TL) | 0.08 | J | n/a | n/a | | |
| BCDL | 10.0 | Code IRC2009/TPI2007 | | (Matrix-S) | | Wind(LL) | 0.14 | Q-T | >999 | 240 | Weight: 414 lb | FT = 20% |

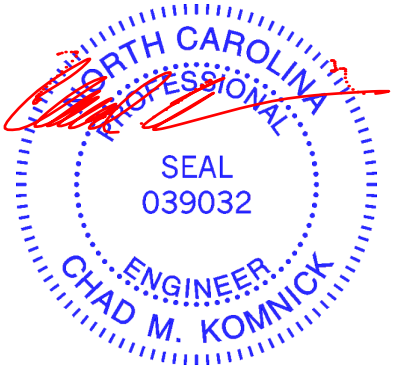
**LUMBER-**
TOP CHORD 2x6 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3 *Except*
E-Q,G-O: 2x4 SP No.2

**BRACING-**
TOP CHORD Structural wood sheathing directly applied, except 2-0-0 oc purlins (6-0-0 max.): D-G.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt B-Q, D-Q, E-Q, E-O, I-N
2 Rows at 1/3 pts G-O

**REACTIONS.** (lb/size) A=895/0-5-8, O=2870/0-3-8, J=707/0-5-8
Max Horz A=-562(LC 6)
Max Uplift A=-357(LC 8), O=-995(LC 7), J=-420(LC 9)
Max Grav A=940(LC 13), O=2870(LC 1), J=804(LC 14)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD A-B=-1536/1099, B-C=-763/597, C-D=-626/651, D-E=-543/764, E-F=-239/831, F-G=-239/831, G-H=-209/484, H-I=-282/430, I-J=-1044/617
BOT CHORD A-U=-893/1324, T-U=-893/1324, S-T=-893/1324, R-S=-893/1324, Q-R=-896/1309, Q-AD=-440/767, P-AD=-443/765, P-AE=-443/765, O-AE=-443/765, O-AF=-154/508, N-AF=-154/508, M-N=-377/825, L-M=-377/825, J-L=-377/825
WEBS B-T=0/333, B-Q=-895/987, D-Q=-281/366, E-Q=-879/1262, E-O=-1596/1487, G-O=-1340/1079, G-N=-297/571, I-N=-803/885, I-L=0/388

**NOTES-** (10)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Exterior(2) zone; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) A=357, O=995, J=420.
8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and ½" gypsum sheetrock be applied directly to the bottom chord.
9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
10) This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.




March 30,2017




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

| Job | Truss | Truss Type | Qty | Ply | H&H-NC/Calabash/ |
|---|---|---|---|---|---|
| 763062_NC_OFA | A04 | PIGGYBACK BASE | 15 | 1 | I29418237 |
| | | | | | Job Reference (optional) |

Builders FirstSource, Sumter, SC — 7.640 s Sep 29 2015 MiTek Industries, Inc. Wed Mar 29 15:29:45 2017 Page 1
ID:jTgj18SwfyF8hyT9h0Yt9kzZiYQ-DDk2zoFBAeNaSFQgogQj5q8WYjzrDrPH_Qe4RVzW1X4

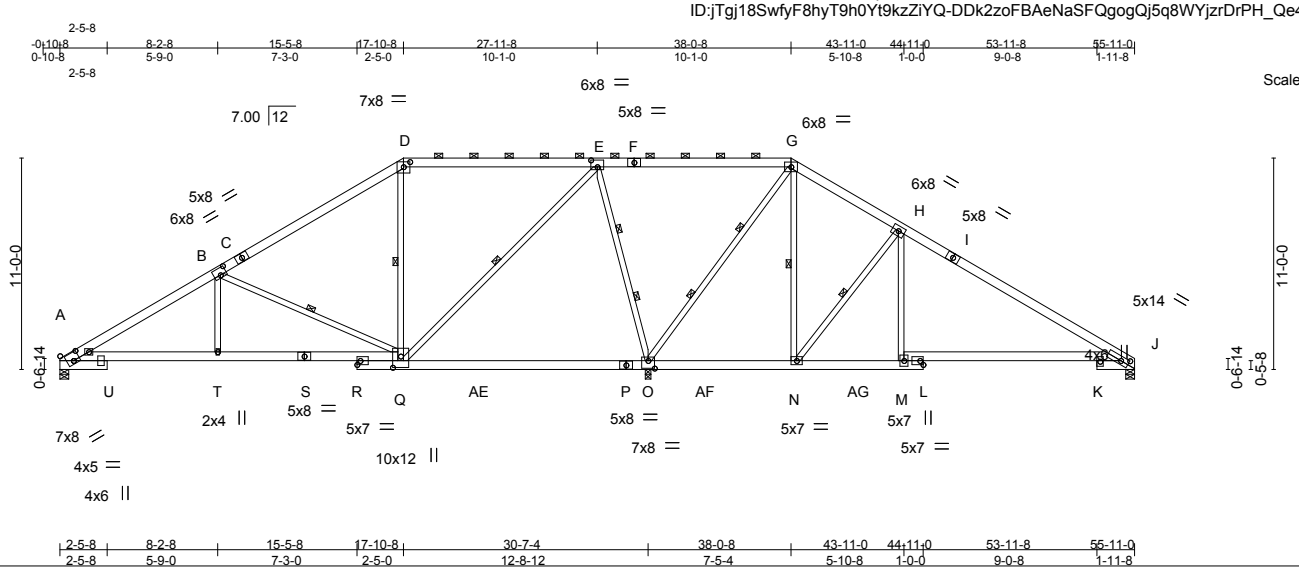



Plate Offsets (X,Y)-- [A:0-4-0,0-4-15], [A:0-2-15,0-8-9], [B:0-4-0,0-4-4], [D:0-4-0,0-3-3], [E:0-4-0,0-4-4], [J:0-5-0,0-2-11], [O:0-4-0,0-4-12], [Q:0-7-0,0-5-0]

| 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) | -0.24 | O-Q | >999 | 360 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.63 | Vert(TL) | -0.43 | O-Q | >862 | 240 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.92 | Horz(TL) | 0.11 | J | n/a | n/a | | |
| BCDL | 10.0 | Code IRC2009/TPI2007 | | (Matrix-S) | | Wind(LL) | 0.25 | M-AC | >999 | 240 | Weight: 418 lb | FT = 20% |

**LUMBER-**
TOP CHORD 2x6 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3 *Except*
E-Q,G-O: 2x4 SP No.2

**BRACING-**
TOP CHORD Structural wood sheathing directly applied, except 2-0-0 oc purlins (6-0-0 max.): D-G.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt D-Q, E-Q, G-N, B-Q, H-N
2 Rows at 1/3 pts E-O, G-O

**REACTIONS.** (lb/size) A=779/0-5-8, J=506/0-5-8, O=3127/0-3-8 (req. 0-3-11)
Max Horz A=-541(LC 6)
Max Uplift A=-359(LC 8), J=-320(LC 6), O=-870(LC 7)
Max Grav A=880(LC 13), J=589(LC 14), O=3127(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD A-B=-1409/965, B-C=-640/462, C-D=-482/516, D-E=-424/648, E-F=-413/1163, F-G=-413/1163, G-H=-112/447, H-I=-321/456, I-J=-495/420
BOT CHORD A-U=-1015/1213, T-U=-1015/1213, S-T=-1015/1213, R-S=-1015/1213, Q-R=-1018/1199, Q-AE=-741/877, P-AE=-746/876, O-P=-743/875, O-AF=-324/605, N-AF=-324/605, N-AG=-186/360, M-AG=-186/360, L-M=-181/277, K-L=-186/360
WEBS B-T=0/331, D-Q=-394/421, E-Q=-953/1405, E-O=-1725/1580, G-O=-1457/1137, G-N=-561/691, B-Q=-890/988, H-N=-840/865, H-M=-31/477

**NOTES-** (11)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Exterior(2) zone; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) WARNING: Required bearing size at joint(s) O greater than input bearing size.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) A=359, J=320, O=870.
9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and ½" gypsum sheetrock be applied directly to the bottom chord.
10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
11) This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.


March 30,2017



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

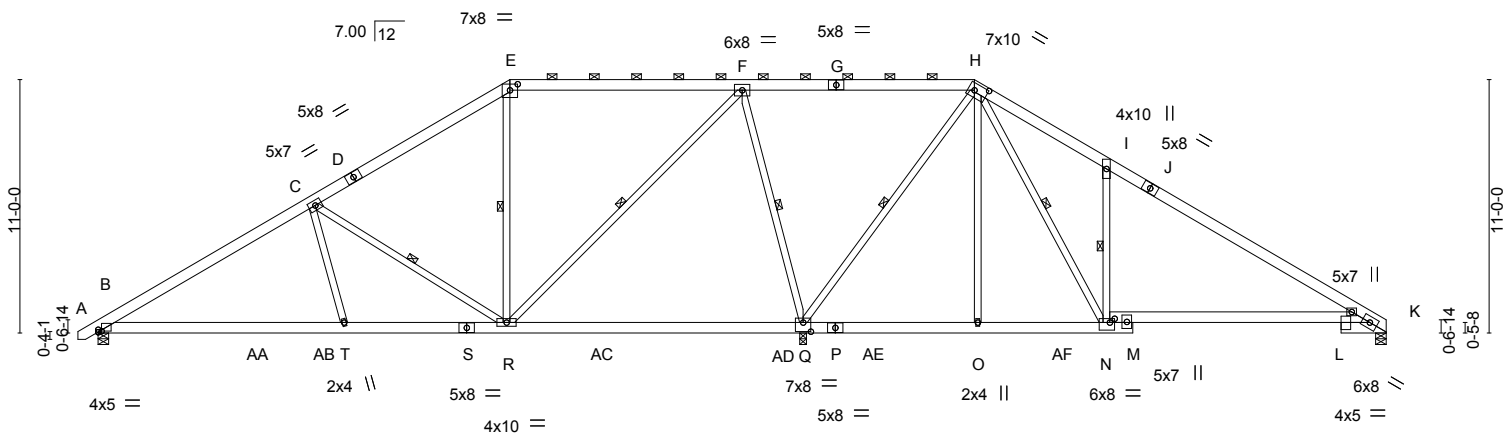
| Job | Truss | Truss Type | Qty | Ply | H&H-NC/Calabash/ |
|---|---|---|---|---|---|
| 763062_NC_OFA | A05 | PIGGYBACK BASE | 5 | 1 | I29418238 |
| | | | | | Job Reference (optional) |

Builders FirstSource, Sumter, SC — 7.640 s Apr 22 2016 MiTek Industries, Inc. Thu Mar 30 10:26:41 2017 Page 1

ID:jTgj18SwfyF8hyT9h0Yt9kzZiYQ-4UkVDi2Z1eVFfbcH?JvRVXLvNqIOsdZBQP5HLFzVnlS

| -0-10-8 | 9-3-9 | 17-10-8 | 27-11-8 | 38-0-8 | 43-11-0 | 53-11-8 | 55-11-0 |
|---|---|---|---|---|---|---|---|
| 0-10-8 | 9-3-9 | 8-7-0 | 10-1-0 | 10-1-0 | 5-10-8 | 10-0-8 | 1-11-8 |

Scale = 1:100.0




| 10-8-2 | 17-10-8 | 30-7-4 | 38-0-8 | 44-11-0 | 53-11-8 | 55-11-0 |
|---|---|---|---|---|---|---|
| 10-8-2 | 7-2-6 | 12-8-12 | 7-5-4 | 6-10-8 | 9-0-8 | 1-11-8 |

Plate Offsets (X,Y)-- [B:0-1-4,0-0-0], [B:0-1-13,0-0-8], [E:0-4-0,0-3-3], [H:0-6-12,0-3-8], [N:0-2-8,0-2-0], [Q:0-4-0,0-4-12]

| 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 | 0.89 | Vert(LL) | -0.26 | Q-R | >999 | 360 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.67 | Vert(TL) | -0.49 | Q-R | >746 | 240 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 1.00 | Horz(TL) | 0.07 | K | n/a | n/a | | |
| BCDL | 10.0 | Code IRC2009/TPI2007 | | (Matrix-S) | | Wind(LL) | 0.14 | N-Z | >999 | 240 | Weight: 417 lb | FT = 20% |

**LUMBER-**

| | |
|---|---|
| TOP CHORD | 2x6 SP No.2 |
| BOT CHORD | 2x6 SP No.2 *Except* I-N: 2x4 SP No.2 |
| WEBS | 2x4 SP No.3 *Except* F-R,H-Q: 2x4 SP No.2 |

**BRACING-**

| | |
|---|---|
| TOP CHORD | Sheathed, except 2-0-0 oc purlins (6-0-0 max.): E-H. |
| BOT CHORD | Rigid ceiling directly applied. Except: 6-0-0 oc bracing: I-N |
| WEBS | 1 Row at midpt C-R, E-R, F-R, F-Q, H-Q, H-N |

**REACTIONS.** (lb/size) B=971/0-5-8 (min. 0-1-8), K=624/0-5-8 (min. 0-1-8), Q=2892/0-3-8 (req. 0-3-9)
Max Horz B=562(LC 7)
Max Uplift B=-548(LC 8), K=-466(LC 9), Q=-724(LC 7)
Max Grav B=1033(LC 13), K=658(LC 14), Q=3026(LC 2)

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

| | |
|---|---|
| TOP CHORD | B-C=-1341/1303, C-D=-717/947, D-E=-577/996, E-F=-500/1032, F-G=0/925, G-H=0/925, H-I=-633/1368, I-J=-387/845, J-K=-661/804 |
| BOT CHORD | B-AA=-962/1088, AA-AB=-962/1088, T-AB=-962/1088, S-T=-941/1137, R-S=-941/1137, R-AC=-663/248, AC-AD=-663/248, Q-AD=-663/248, P-Q=-308/118, P-AE=-308/118, O-AE=-308/118, O-AF=-306/119, N-AF=-306/119, M-N=-445/398, L-M=-454/481, K-L=-447/435, I-N=-623/1053 |
| WEBS | C-T=0/335, C-R=-764/829, E-R=-275/155, F-R=-621/1237, F-Q=-1618/1355, H-Q=-1316/799, H-N=-1093/1027 |

**NOTES-** (11)

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Exterior(2) zone; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) WARNING: Required bearing size at joint(s) Q greater than input bearing size.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 548 lb uplift at joint B, 466 lb uplift at joint K and 724 lb uplift at joint Q.
9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and ½" gypsum sheetrock be applied directly to the bottom chord.
10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.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.


March 30,2017

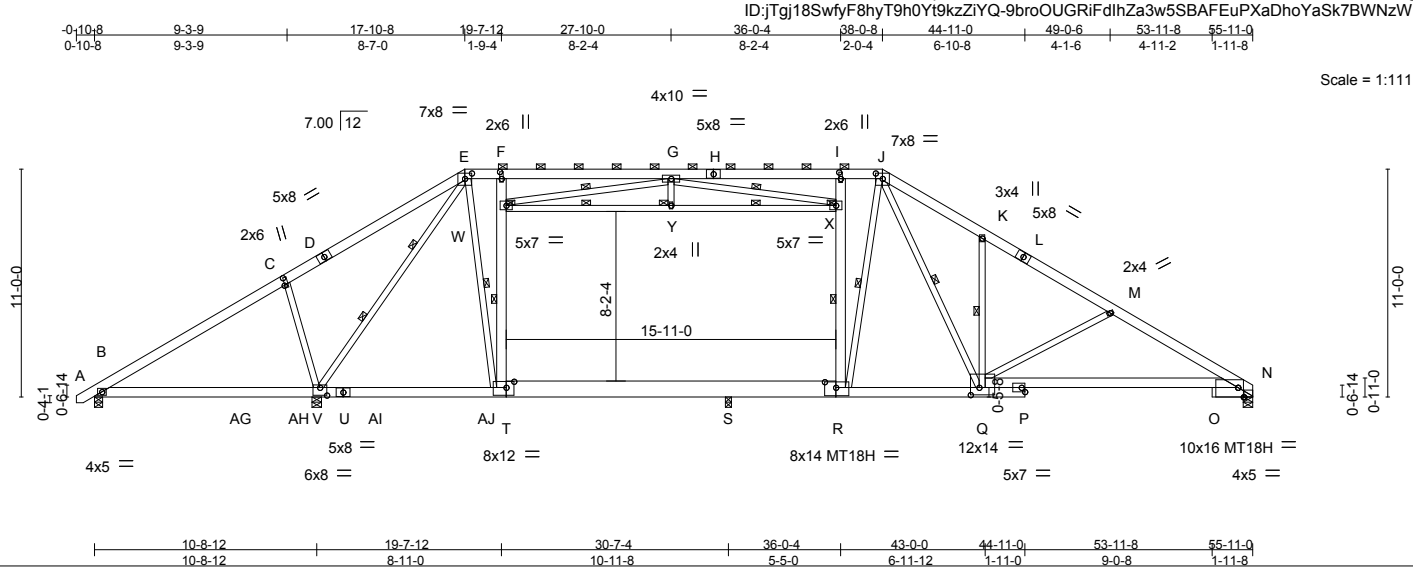
**LOAD CASE(S)** Standard

**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-NC/Calabash/ I29418239 |
|---|---|---|---|---|---|
| 763062_NC_OFA | A06 | ATTIC | 5 | 1 | Job Reference (optional) |

Builders FirstSource, Sumter, SC — 7.640 s Sep 29 2015 MiTek Industries, Inc. Wed Mar 29 15:29:47 2017 Page 1
ID:jTgj18SwfyF8hyT9h0Yt9kzZiYQ-9broOUGRiFdIhZa3w5SBAFEuPXaDhoYaSk7BWNzW1X2




| 0-10-8 | 9-3-9 | 17-10-8 | 19-7-12 | 27-10-0 | 36-0-4 | 38-0-8 | 44-11-0 | 49-0-6 | 53-11-8 | 55-11-0 |
|---|---|---|---|---|---|---|---|---|---|---|
| 0-10-8 | 9-3-9 | 8-7-0 | 1-9-4 | 8-2-4 | 8-2-4 | 2-0-4 | 6-10-8 | 4-1-6 | 4-11-2 | 1-11-8 |

| 10-8-12 | 19-7-12 | 30-7-4 | 36-0-4 | 43-0-0 | 44-11-0 | 53-11-8 | 55-11-0 |
|---|---|---|---|---|---|---|---|
| 10-8-12 | 8-11-0 | 10-11-8 | 5-5-0 | 6-11-12 | 1-11-0 | 9-0-8 | 1-11-8 |

Plate Offsets (X,Y)-- [C:0-4-7,0-0-4], [E:0-4-0,0-3-3], [F:0-4-0,0-1-0], [I:0-3-12,0-1-0], [J:0-4-0,0-3-3], [N:0-3-9,Edge], [N:0-3-3,Edge], [Q:0-5-0,0-4-4], [R:0-6-8,0-3-4], [T:0-4-8,0-3-8], [V: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 | 0.58 | Vert(LL) | -0.26 | Q-R | >999 | 360 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.89 | Vert(TL) | -0.65 | Q-AE | >463 | 240 | MT18H | 244/190 |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.75 | Horz(TL) | 0.13 | N | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2009/TPI2007 | (Matrix-S) | | Wind(LL) | 0.42 | Q-R | >709 | 240 | Weight: 501 lb | FT = 20% |

**LUMBER-**
TOP CHORD 2x6 SP No.2
BOT CHORD 2x6 SP No.2 *Except*
K-Q: 2x4 SP No.2, N-O: 2x6 SP No.1, P-R: 2x6 SP DSS
R-T: 2x10 SP No.1
WEBS 2x4 SP No.3 *Except*
F-T,I-R: 2x6 SP No.2, W-X,E-V: 2x4 SP No.2

**BRACING-**
TOP CHORD Structural wood sheathing directly applied, except
2-0-0 oc purlins (5-0-2 max.): E-J.
BOT CHORD Rigid ceiling directly applied. Except:
6-0-0 oc bracing: K-Q
WEBS 1 Row at midpt E-T, T-W, W-Y, X-Y, R-X, J-R, G-W, G-X, J-Q
2 Rows at 1/3 pts E-V
JOINTS 1 Brace at Jt(s): W, X, Y

**REACTIONS.** All bearings 0-5-8 except (jt=length) B=0-4-11, S=0-3-8.
(lb) - Max Horz B=562(LC 7)
Max Uplift All uplift 100 lb or less at joint(s) except B=-789(LC 6), N=-572(LC 6), V=-1108(LC 7), S=-186(LC 6)
Max Grav All reactions 250 lb or less at joint(s) except B=1040(LC 1), N=1646(LC 1), V=1973(LC 16), S=1588(LC 17)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-C=-1386/1194, C-D=-1285/1174, D-E=-1239/1221, E-F=-1488/1412, F-G=-1338/1296, G-H=-1583/1431, H-I=-1583/1431, I-J=-1524/1431, J-K=-2480/2076, K-L=-2394/1775, L-M=-2529/1757, M-N=-2929/2065
BOT CHORD B-AG=-483/1128, AG-AH=-483/1128, V-AH=-483/1128, U-V=-444/1309, U-AI=-444/1309, AI-AJ=-444/1309, T-AJ=-444/1309, S-T=-575/1501, R-S=-580/1516, Q-R=-594/1551, P-Q=-1620/2497, O-P=-1626/2530, N-O=-1215/1750, K-Q=-309/559
WEBS C-V=-534/922, E-T=-710/1278, T-W=-995/810, F-W=-586/618, W-Y=-1231/1277, X-Y=-1231/1277, R-X=-808/764, I-X=-440/540, J-R=-528/266, G-W=-1480/1370, G-X=-1259/1232, J-Q=-1065/1272, M-Q=-508/663, E-V=-1396/511

**NOTES-** (14)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Exterior(2) zone; end vertical left exposed; porch left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
4) Provide adequate drainage to prevent water ponding.
5) All plates are MT20 plates unless otherwise indicated.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
8) Ceiling dead load (5.0 psf) on member(s). W-Y, X-Y; Wall dead load (5.0psf) on member(s).T-W, R-X
9) Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. S-T, R-S
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 789 lb uplift at joint B, 572 lb uplift at joint N, 1108 lb uplift at joint V and 186 lb uplift at joint S.
11) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and ½" gypsum sheetrock be applied directly to the bottom chord.
12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

Continued on page 2


March 30,2017



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

**NOTES-** (14)

13) Attic room checked for L/360 deflection.

14) 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-NC/Calabash/ I29418240 |
|---|---|---|---|---|---|
| 763062_NC_OFA | A07 | ATTIC | 5 | 1 | Job Reference (optional) |

Builders FirstSource, Sumter, SC — 7.640 s Sep 29 2015 MiTek Industries, Inc. Wed Mar 29 15:29:47 2017 Page 1
ID:jTgj18SwfyF8hyT9h0Yt9kzZiYQ-9broOUGRiFdIhZa3w5SBAFEuUXYahk8aSk7BWNzW1X2

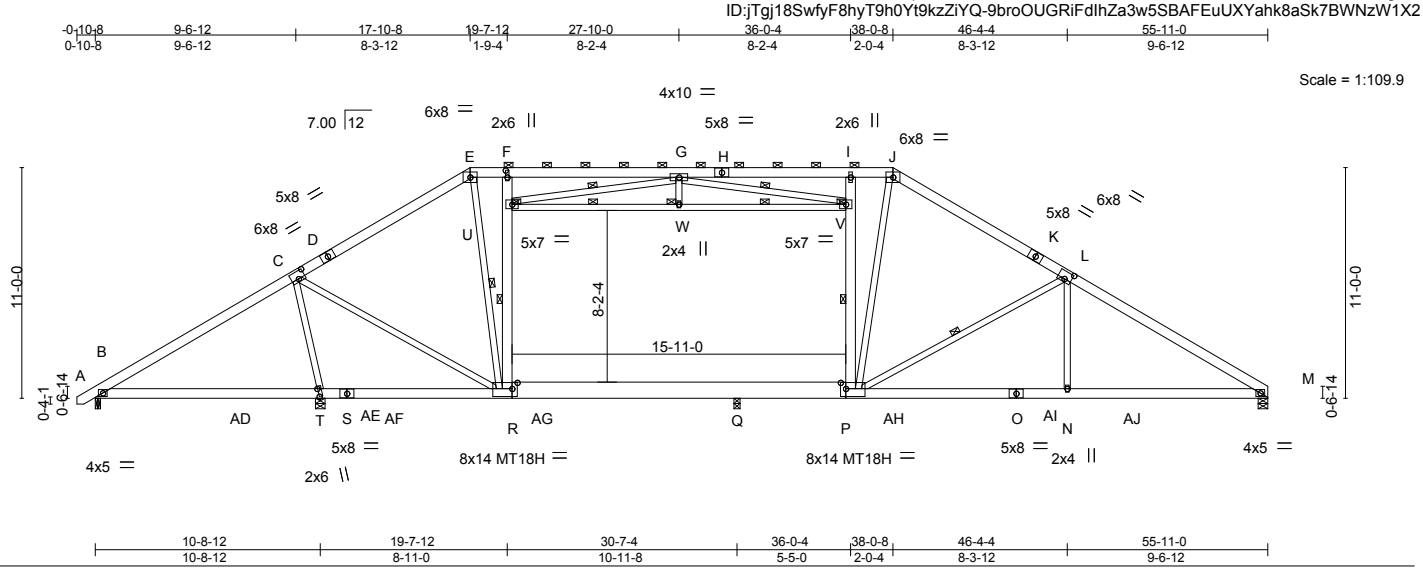



Plate Offsets (X,Y)-- [C:0-4-0,0-4-4], [F:0-4-0,0-1-0], [L:0-4-0,0-4-4], [P:0-3-0,0-3-8], [R:0-3-0,0-3-8], [T:0-4-10,0-0-4]

| 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) | -0.38 | N-P | >789 | 360 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 1.00 | Vert(TL) | -0.90 | N-P | >338 | 240 | MT18H | 244/190 |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.97 | Horz(TL) | 0.10 | M | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2009/TPI2007 | (Matrix-S) | | Wind(LL) | 0.50 | N-P | >602 | 240 | Weight: 478 lb | FT = 20% |

**LUMBER-**
TOP CHORD 2x6 SP No.2
BOT CHORD 2x6 SP No.2 *Except*
O-P: 2x6 SP No.1, P-R: 2x10 SP No.1
WEBS 2x4 SP No.3 *Except*
F-R,I-P: 2x6 SP No.2, U-V: 2x4 SP No.2

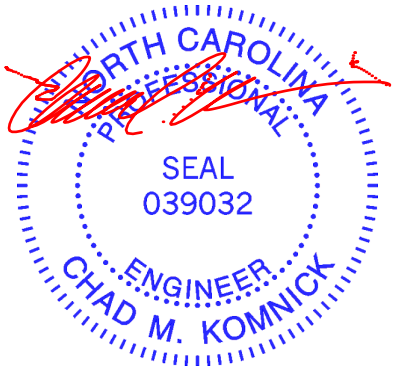
**BRACING-**
TOP CHORD Structural wood sheathing directly applied, except 2-0-0 oc purlins (4-5-0 max.): E-J.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt E-R, R-U, U-W, V-W, P-V, G-U, G-V, L-P
JOINTS 1 Brace at Jt(s): U, V, W

**REACTIONS.** All bearings 0-5-8 except (jt=length) B=0-3-0, Q=0-3-8.
(lb) - Max Horz B=562(LC 7)
Max Uplift All uplift 100 lb or less at joint(s) except B=-827(LC 6), T=-1122(LC 7), M=-597(LC 6), Q=-161(LC 6)
Max Grav All reactions 250 lb or less at joint(s) except B=1301(LC 1), T=1602(LC 16), M=1884(LC 2), Q=1523(LC 17)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-C=-1904/1271, C-D=-2221/1445, D-E=-2104/1492, E-F=-2003/1543, F-G=-1805/1428, G-H=-2118/1553, H-I=-2118/1553, I-J=-2042/1558, J-K=-2174/1514, K-L=-2281/1467, L-M=-3222/1921
BOT CHORD B-AD=-578/1547, AD-AE=-578/1547, T-AE=-578/1547, S-T=-675/1465, S-AF=-675/1465, AF-AG=-675/1465, R-AG=-675/1465, Q-R=-695/2027, P-Q=-698/2040, P-AH=-1406/2688, AH-AI=-1406/2688, O-AI=-1406/2688, N-O=-1406/2688, N-AJ=-1406/2688, M-AJ=-1406/2688
WEBS C-T=-1235/1222, C-R=-389/869, E-R=-711/1147, R-U=-1027/811, F-U=-608/602, U-W=-1241/1285, V-W=-1241/1285, P-V=-750/711, I-V=-383/532, J-P=-454/863, L-N=0/478, G-U=-1538/1379, G-V=-1246/1253, L-P=-928/909

**NOTES-** (14)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Exterior(2) zone; end vertical left exposed; porch left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
4) Provide adequate drainage to prevent water ponding.
5) All plates are MT20 plates unless otherwise indicated.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
8) Ceiling dead load (5.0 psf) on member(s). U-W, V-W; Wall dead load (5.0psf) on member(s).R-U, P-V
9) Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. Q-R, P-Q
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 827 lb uplift at joint B, 1122 lb uplift at joint T, 597 lb uplift at joint M and 161 lb uplift at joint Q.
11) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and ½" gypsum sheetrock be applied directly to the bottom chord.
12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
13) Attic room checked for L/360 deflection.

Continued on page 2




March 30,2017

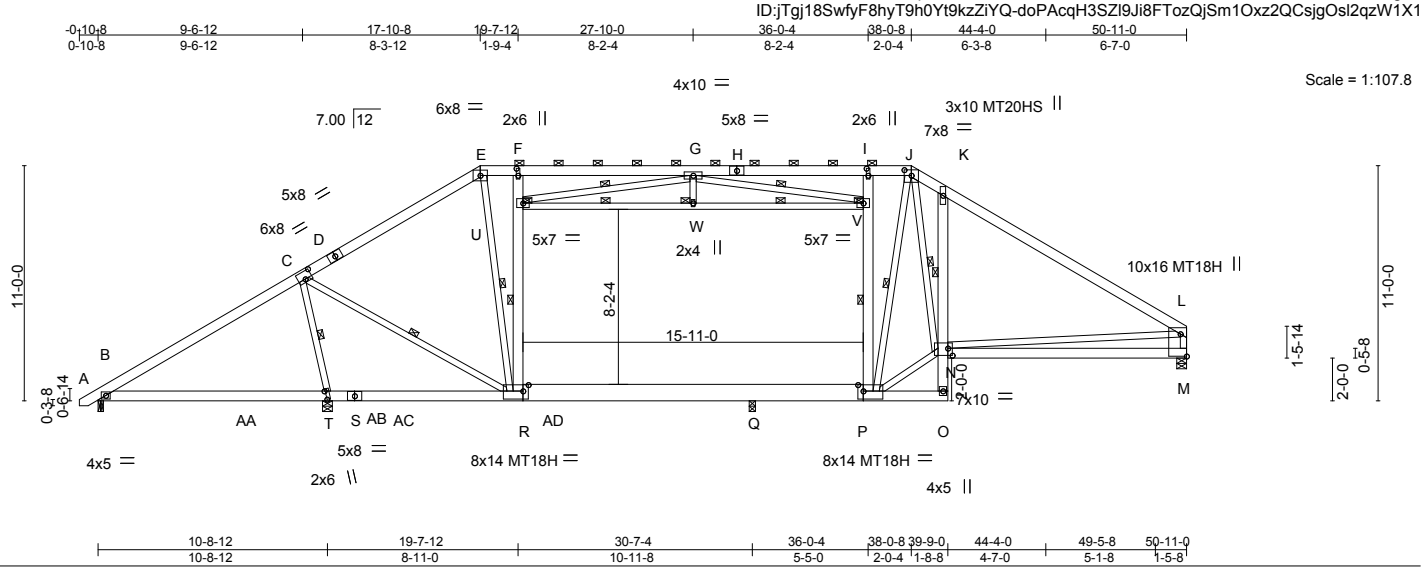


ENGINEERING BY TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

14) 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-NC/Calabash/ |
|---|---|---|---|---|---|
| 763062_NC_OFA | A08 | ATTIC | 8 | 1 | I29418241 |
| | | | | | Job Reference (optional) |

Builders FirstSource, Sumter, SC — 7.640 s Sep 29 2015 MiTek Industries, Inc. Wed Mar 29 15:29:48 2017 Page 1
ID:jTgj18SwfyF8hyT9h0Yt9kzZiYQ-doPAcqH3SZI9Ji8FTozQjSm1Oxz2QCsjgOsl2qzW1X1




| 0-10-8 | 9-6-12 | 17-10-8 | 19-7-12 | 27-10-0 | 36-0-4 | 38-0-8 | 44-4-0 | 50-11-0 |
|---|---|---|---|---|---|---|---|---|
| 0-10-8 | 9-6-12 | 8-3-12 | 1-9-4 | 8-2-4 | 8-2-4 | 2-0-4 | 6-3-8 | 6-7-0 |

| 10-8-12 | 19-7-12 | 30-7-4 | 36-0-4 | 38-0-8 | 39-9-0 | 44-4-0 | 49-5-8 | 50-11-0 |
|---|---|---|---|---|---|---|---|---|
| 10-8-12 | 8-11-0 | 10-11-8 | 5-5-0 | 2-0-4 | 1-8-8 | 4-7-0 | 5-1-8 | 1-5-8 |

Plate Offsets (X,Y)-- [C:0-4-0,0-4-4], [F:0-4-0,0-1-0], [I:0-4-0,0-1-0], [J:0-4-0,0-3-3], [L:Edge,0-3-8], [N:0-2-8,0-4-0], [P:0-3-0,0-3-8], [R:0-3-0,0-3-8], [T:0-4-14,0-0-8]

| 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 | 0.76 | Vert(LL) | -0.13 | O-P | >999 | 360 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.66 | Vert(TL) | -0.36 | M-N | >666 | 240 | MT20HS | 187/143 |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.94 | Horz(TL) | 0.05 | M | n/a | n/a | MT18H | 244/190 |
| BCDL | 10.0 | Code | IRC2009/TPI2007 | (Matrix-S) | | Wind(LL) | 0.27 | T-Z | >482 | 240 | Weight: 485 lb | FT = 20% |

**LUMBER-**
TOP CHORD 2x6 SP No.2
BOT CHORD 2x6 SP No.2 *Except*
P-R: 2x10 SP No.1
WEBS 2x4 SP No.3 *Except*
F-R,I-P: 2x6 SP No.2, U-V: 2x4 SP No.2, L-M: 2x4 SP No.1

**BRACING-**
TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (5-6-9 max.): E-J.
BOT CHORD Rigid ceiling directly applied. Except:
1 Row at midpt K-N
WEBS 1 Row at midpt C-T, C-R, E-R, R-U, U-W, V-W, P-V, G-U, G-V, J-N, J-P
JOINTS 1 Brace at Jt(s): U, V, W

**REACTIONS.** All bearings 0-5-8 except (jt=length) B=0-3-0, Q=0-3-8.
(lb) - Max Horz B=554(LC 7)
Max Uplift All uplift 100 lb or less at joint(s) Q except B=-670(LC 6), T=-1111(LC 7), M=-537(LC 6)
Max Grav All reactions 250 lb or less at joint(s) except B=835(LC 1), T=2230(LC 16), M=1552(LC 1), Q=1290(LC 12)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-C=-979/968, C-D=-1551/1140, D-E=-1407/1187, E-F=-1325/1245, F-G=-1262/1186, G-H=-1336/1200, H-I=-1336/1200, I-J=-1341/1249, J-K=-2006/1858, K-L=-2137/1375, L-M=-1425/1077
BOT CHORD B-AA=-430/774, AA-AB=-430/774, T-AB=-430/774, S-T=-525/588, S-AC=-525/588, AC-AD=-525/588, R-AD=-525/588, Q-R=-634/1325, P-Q=-634/1333, M-N=-522/613, N-O=-136/256, K-N=-520/1051
WEBS C-T=-1860/1542, C-R=-666/1548, E-R=-618/777, R-U=-942/771, F-U=-549/582, U-W=-1226/1263, V-W=-1226/1263, P-V=-870/876, I-V=-495/634, G-U=-1392/1297, G-V=-1298/1284, L-N=-387/1096, J-N=-1269/1428, J-P=-360/67, N-P=-464/1383

**NOTES-** (14)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Exterior(2) zone; end vertical left exposed; porch left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
4) Provide adequate drainage to prevent water ponding.
5) All plates are MT20 plates unless otherwise indicated.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
8) Ceiling dead load (5.0 psf) on member(s). U-W, V-W; Wall dead load (5.0psf) on member(s).R-U, P-V
9) Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. Q-R, P-Q
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) Q except (jt=lb) B=670, T=1111, M=537.
11) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and ½" gypsum sheetrock be applied directly to the bottom chord.
12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
13) Attic room checked for L/360 deflection.

Continued on page 2


March 30,2017



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

14) 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-NC/Calabash/ |
|---|---|---|---|---|---|
| 763062_NC_OFA | A09 | ATTIC | 8 | 1 | I29418242 |
| | | | | | Job Reference (optional) |

Builders FirstSource, Sumter, SC

7.640 s Sep 29 2015 MiTek Industries, Inc. Wed Mar 29 15:29:49 2017 Page 1
ID:jTgj18SwfyF8hyT9h0Yt9kzZiYQ-6_zZpAlhDtt0wsjS1VUfFgJC8KJG9f5sv2claGzW1X0

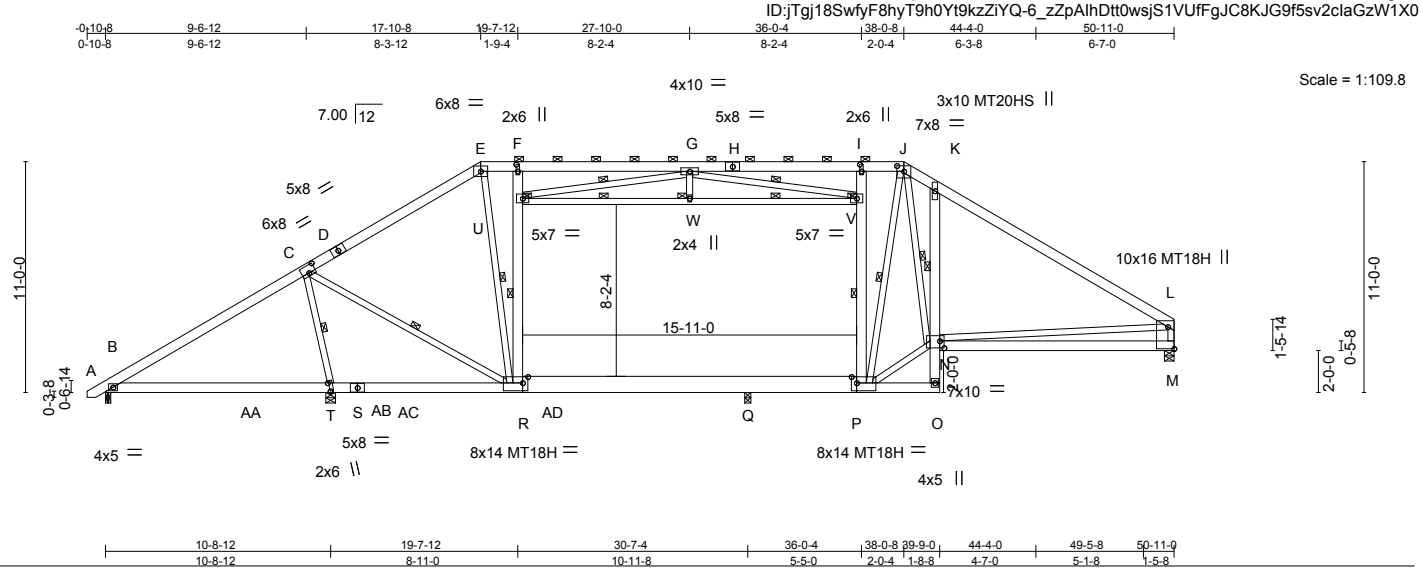



Plate Offsets (X,Y)-- [C:0-4-0,0-4-4], [F:0-4-0,0-1-0], [I:0-4-0,0-1-0], [J:0-4-0,0-3-3], [L:Edge,0-3-8], [N:0-2-8,0-4-0], [P:0-3-0,0-3-8], [R:0-3-0,0-3-8], [T:0-4-14,0-0-8]

| 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 | 0.76 | Vert(LL) | -0.13 | O-P | >999 | 360 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.66 | Vert(TL) | -0.36 | M-N | >666 | 240 | MT20HS | 187/143 |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.94 | Horz(TL) | 0.05 | M | n/a | n/a | MT18H | 244/190 |
| BCDL | 10.0 | Code | IRC2009/TPI2007 | (Matrix-S) | | Wind(LL) | 0.27 | T-Z | >482 | 240 | Weight: 485 lb | FT = 20% |

**LUMBER-**
TOP CHORD 2x6 SP No.2
BOT CHORD 2x6 SP No.2 *Except*
P-R: 2x10 SP No.1
WEBS 2x4 SP No.3 *Except*
F-R,I-P: 2x6 SP No.2, U-V: 2x4 SP No.2, L-M: 2x4 SP No.1

**BRACING-**
TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (5-6-9 max.): E-J.
BOT CHORD Rigid ceiling directly applied. Except:
1 Row at midpt K-N
WEBS 1 Row at midpt C-T, C-R, E-R, R-U, U-W, V-W, P-V, G-U, G-V, J-N, J-P
JOINTS 1 Brace at Jt(s): U, V, W

**REACTIONS.** All bearings 0-5-8 except (jt=length) B=0-3-0, Q=0-3-8.
(lb) - Max Horz B=554(LC 7)
Max Uplift All uplift 100 lb or less at joint(s) Q except B=-670(LC 6), T=-1111(LC 7), M=-537(LC 6)
Max Grav All reactions 250 lb or less at joint(s) except B=835(LC 1), T=2230(LC 16), M=1552(LC 1), Q=1290(LC 12)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-C=-979/968, C-D=-1551/1140, D-E=-1407/1187, E-F=-1325/1245, F-G=-1262/1186, G-H=-1336/1200, H-I=-1336/1200, I-J=-1341/1249, J-K=-2006/1858, K-L=-2137/1375, L-M=-1425/1077
BOT CHORD B-AA=-430/774, AA-AB=-430/774, T-AB=-430/774, S-T=-525/588, S-AC=-525/588, AC-AD=-525/588, R-AD=-525/588, Q-R=-634/1325, P-Q=-634/1333, M-N=-522/613, N-O=-136/256, K-N=-520/1051
WEBS C-T=-1860/1542, C-R=-666/1548, E-R=-618/777, R-U=-942/771, F-U=-549/582, U-W=-1226/1263, V-W=-1226/1263, P-V=-870/876, I-V=-495/634, G-U=-1392/1297, G-V=-1298/1284, L-N=-387/1096, J-N=-1269/1428, J-P=-360/67, N-P=-464/1383

**NOTES-** (14)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Exterior(2) zone; end vertical left exposed; porch left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
4) Provide adequate drainage to prevent water ponding.
5) All plates are MT20 plates unless otherwise indicated.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
8) Ceiling dead load (5.0 psf) on member(s). U-W, V-W; Wall dead load (5.0psf) on member(s).R-U, P-V
9) Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. Q-R, P-Q
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) Q except (jt=lb) B=670, T=1111, M=537.
11) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and ½" gypsum sheetrock be applied directly to the bottom chord.
12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
13) Attic room checked for L/360 deflection.

Continued on page 2


March 30,2017



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

14) 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-NC/Calabash/ |
|---|---|---|---|---|---|
| 763062_NC_OFA | A10 | ATTIC GIRDER | 8 | 1 | I29418243 |
| | | | | | Job Reference (optional) |

Builders FirstSource, Sumter, SC

7.640 s Sep 29 2015 MiTek Industries, Inc. Wed Mar 29 15:29:50 2017 Page 1
ID:jTgj18SwfyF8hyT9h0Yt9kzZiYQ-aAXx1VlJ_A?tY0lebD?uotsP1kbDu6d08iLr7izW1X?

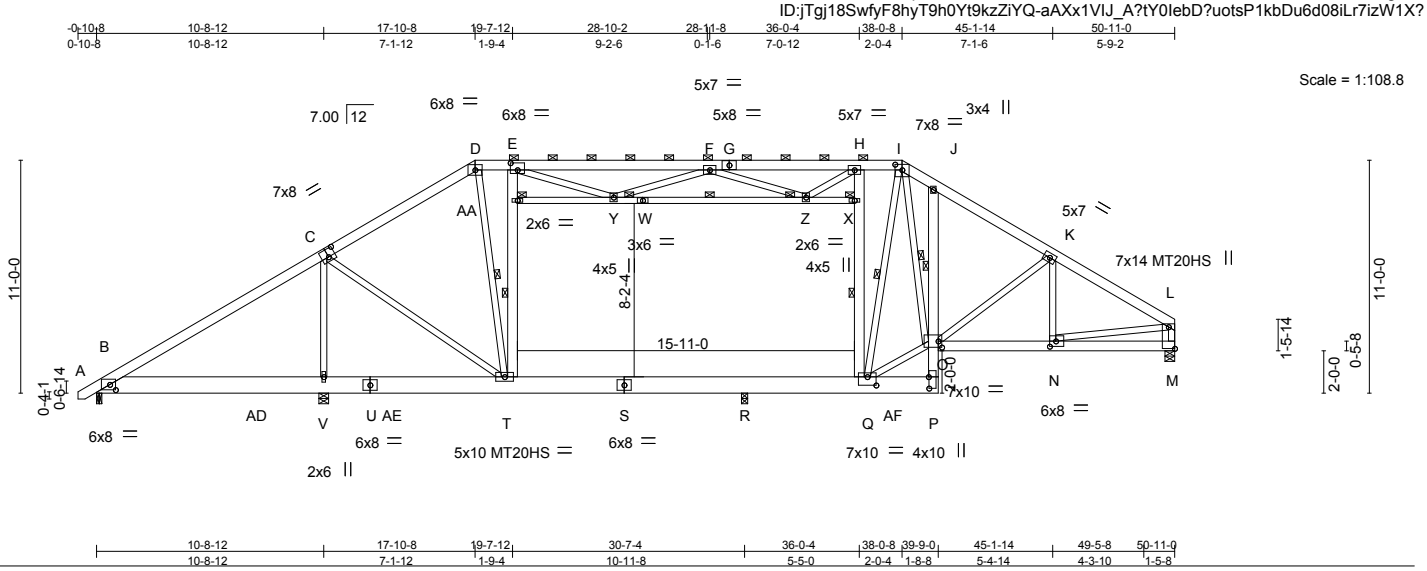



Plate Offsets (X,Y)-- [B:0-3-4,0-2-15], [C:0-4-0,0-4-8], [E:0-4-0,0-4-0], [I:0-4-0,0-3-3], [L:Edge,0-3-8], [N:0-3-8,0-3-0], [O:0-2-0,0-3-8], [P:0-6-8,0-0-4], [Q:0-5-0,0-4-12]

| 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 | 0.62 | Vert(LL) | -0.17 | P-Q | >999 | 360 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.94 | Vert(TL) | -0.40 | P-Q | >603 | 240 | MT20HS | 187/143 |
| BCLL | 0.0 * | Rep Stress Incr | NO | WB | 0.92 | Horz(TL) | 0.06 | M | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2009/TPI2007 | (Matrix-M) | | Wind(LL) | 0.37 | P-Q | >650 | 240 | Weight: 525 lb | FT = 20% |

**LUMBER-**
TOP CHORD 2x6 SP No.2
BOT CHORD 2x10 SP No.1 *Except*
M-O,J-P: 2x6 SP No.2
WEBS 2x4 SP No.3 *Except*
E-T,H-Q: 2x6 SP No.2, W-X,W-AA: 2x4 SP No.2

**BRACING-**
TOP CHORD Structural wood sheathing directly applied or 4-5-10 oc purlins, except end verticals, and 2-0-0 oc purlins (4-5-10 max.): D-I.
BOT CHORD Rigid ceiling directly applied or 7-0-4 oc bracing. Except:
1 Row at midpt J-O
WEBS 1 Row at midpt D-T, T-AA, Y-Z, Q-X, I-O, I-Q
JOINTS 1 Brace at Jt(s): X, Y, Z, AA

**REACTIONS.** All bearings 0-5-8 except (jt=length) B=0-3-0, R=0-3-8.
(lb) - Max Horz B=554(LC 5)
Max Uplift All uplift 100 lb or less at joint(s) except B=-1059(LC 4), V=-661(LC 5), M=-961(LC 4), R=-464(LC 4)
Max Grav All reactions 250 lb or less at joint(s) except B=1068(LC 1), V=1868(LC 14), M=1841(LC 1), R=1673(LC 10)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-C=-1471/1777, C-D=-1766/1131, D-E=-1530/1083, E-F=-2240/1495, F-G=-2129/1503, G-H=-2129/1503, H-I=-1577/1141, I-J=-2289/1571, J-K=-2459/1530, K-L=-2540/1384, L-M=-1772/977
BOT CHORD B-AD=-1123/1171, V-AD=-1123/1171, U-V=-1108/1179, U-AE=-1108/1179, T-AE=-1108/1179, S-T=-861/1593, R-S=-861/1593, R-AF=-861/1593, Q-AF=-861/1593, P-Q=-202/289, N-O=-1106/2124, O-P=-609/749
WEBS C-V=-1376/282, C-T=0/833, D-T=-873/988, T-AA=-1044/861, E-AA=-948/864, W-Y=-1023/1249, W-Z=-1023/1249, Q-X=-699/495, H-X=-627/485, E-Y=-588/906, F-Y=-645/713, F-Z=-774/744, H-Z=-371/626, K-N=-257/278, L-N=-1028/1979, K-O=-287/196, I-O=-1102/1754, I-Q=-779/442, O-Q=-835/1632

**NOTES-** (17)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise); end vertical left exposed; porch left exposed; Lumber DOL=1.60 plate grip DOL=1.60
3) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
4) Provide adequate drainage to prevent water ponding.
5) All plates are MT20 plates unless otherwise indicated.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
8) Ceiling dead load (5.0 psf) on member(s). Y-AA, Y-Z, X-Z; Wall dead load (5.0psf) on member(s).T-AA, Q-X
9) Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. R-T, Q-R
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1059 lb uplift at joint B, 661 lb uplift at joint V, 961 lb uplift at joint M and 464 lb uplift at joint R.
11) Magnitude of user added load(s) on this truss have been applied uniformly across all gravity load cases with no adjustments.
12) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
14) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 635 lb down and 816 lb up at 35-11-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
15) Attic room checked for L/360 deflection.

Continued on page 2


March 30,2017



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

**NOTES-** (17)

16) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

17) This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

**LOAD CASE(S)** Standard

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

Uniform Loads (plf)

Vert: A-D=-60, D-I=-60, I-L=-60, B-T=-20, Q-T=-30, P-Q=-20, X-AA=-10, M-O=-20

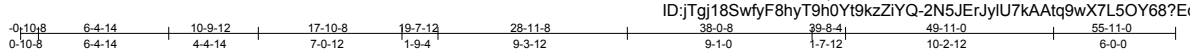
Drag: T-AA=-10, Q-X=-10

Concentrated Loads (lb)

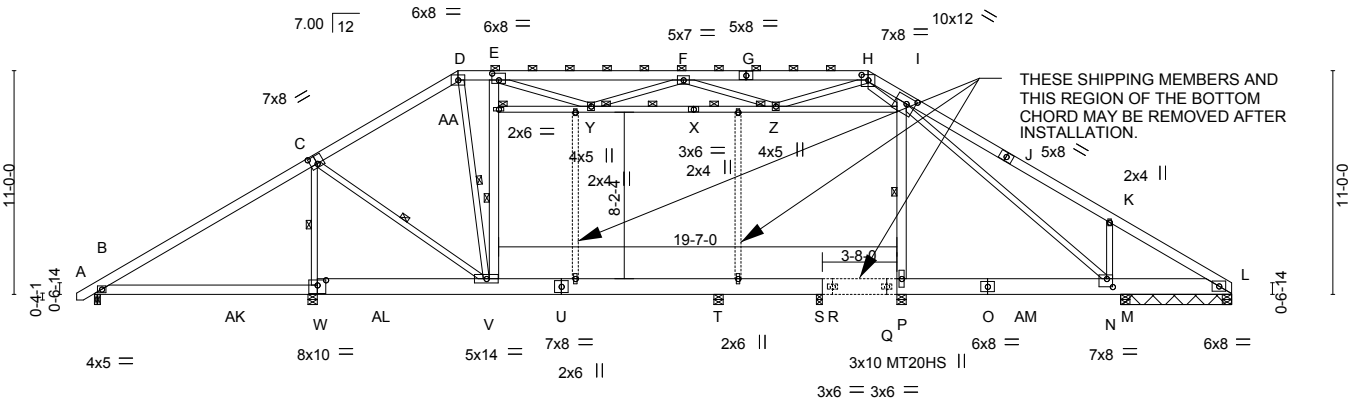
Vert: AF=-635(B)

| Job | Truss | Truss Type | Qty | Ply | H&H-NC/Calabash/ |
|---|---|---|---|---|---|
| 763062_NC_OFA | A11 | ATTIC | 10 | 1 | I29418244 |
| | | | | | Job Reference (optional) |

Builders FirstSource, Sumter, SC — 7.640 s Sep 29 2015 MiTek Industries, Inc. Wed Mar 29 15:29:51 2017 Page 1
ID:jTgj18SwfyF8hyT9h0Yt9kzZiYQ-2N5JErJylU7kAAtq9wX7L5OY68?Edan9NM5Pf8zW1X_




Scale = 1:113.3



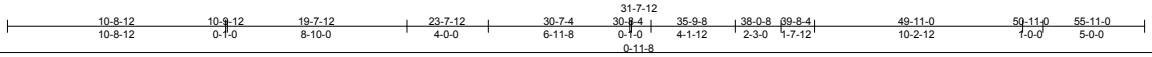




Plate Offsets (X,Y)-- [C:0-4-0,0-4-12], [E:0-4-0,0-4-0], [H:0-4-0,0-3-3], [I:0-5-4,0-4-0], [N:0-3-8,0-4-12], [W:0-5-0,0-3-0]

| 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 | 0.73 | Vert(LL) | -0.13 | T-V | >999 | 360 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.69 | Vert(TL) | -0.28 | T-V | >846 | 240 | MT20HS | 187/143 |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.86 | Horz(TL) | 0.20 | L | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2009/TPI2007 | (Matrix-S) | | Wind(LL) | 0.25 | W-AH | >522 | 240 | Weight: 539 lb | FT = 20% |

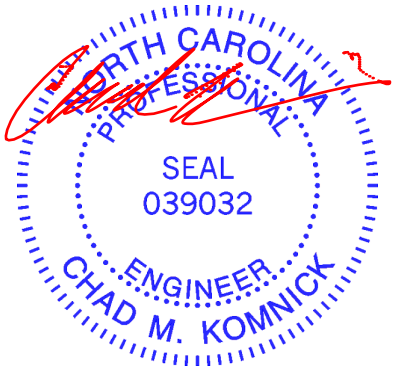
**LUMBER-**
TOP CHORD 2x6 SP No.2
BOT CHORD 2x10 SP No.1 *Except*
B-W: 2x6 SP No.2
WEBS 2x4 SP No.3 *Except*
E-V,I-P: 2x6 SP No.2, I-X,X-AA,I-N: 2x4 SP No.2

**BRACING-**
TOP CHORD Structural wood sheathing directly applied, except 2-0-0 oc purlins (5-5-0 max.): D-H.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt C-W, V-AA, I-P, D-V, C-V
2 Rows at 1/3 pts Y-Z
JOINTS 1 Brace at Jt(s): Y, Z, AA

**REACTIONS.** All bearings 0-5-8 except (jt=length) B=0-3-8, L=Mechanical, L=Mechanical, S=0-3-8.
(lb) - Max Horz W=562(LC 7)
Max Uplift All uplift 100 lb or less at joint(s) L, S except B=-755(LC 17), W=-1603(LC 7), P=-359(LC 6), M=-611(LC 9)
Max Grav All reactions 250 lb or less at joint(s) B, L, L, S except W=3293(LC 16), P=1280(LC 2), T=1315(LC 12), M=758(LC 15)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-C=-1034/2060, C-D=-163/779, D-E=-54/820, E-F=-1171/1684, F-G=-1452/1638, G-H=-1452/1638, H-I=-941/956, I-J=-66/511, J-K=-191/479
BOT CHORD B-AK=-1649/1030, W-AK=-1649/1030, W-AL=-1703/774, V-AL=-1699/775
WEBS C-W=-2735/1936, V-AA=-1032/947, E-AA=-938/949, X-Y=-1810/2096, X-Z=-1810/2096, I-Z=-811/781, I-P=-1131/775, K-N=-488/834, E-Y=-937/1261, F-Y=-985/1049, F-Z=-726/1098, H-Z=-979/811, D-V=-488/92, C-V=-846/2082

**NOTES-** (15)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Exterior(2) zone; end vertical left exposed; porch left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
4) Provide adequate drainage to prevent water ponding.
5) All plates are MT20 plates unless otherwise indicated.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
8) Ceiling dead load (5.0 psf) on member(s). Y-AA, Y-Z, I-Z; Wall dead load (5.0psf) on member(s).V-AA, I-P
9) Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. T-V, S-T, R-S, P-Q
10) Refer to girder(s) for truss to truss connections.
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) L, S except (jt=lb) B=755, W=1603, P=359, M=611.
12) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and ½" gypsum sheetrock be applied directly to the bottom chord.
13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
14) Attic room checked for L/360 deflection.
15) This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.




March 30,2017



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

| Job | Truss | Truss Type | Qty | Ply | H&H-NC/Calabash/ |
|---|---|---|---|---|---|
| 763062_NC_OFA | A12 | ATTIC | 10 | 1 | I29418245 |
| | | | | | Job Reference (optional) |

Builders FirstSource, Sumter, SC

7.640 s Sep 29 2015 MiTek Industries, Inc. Wed Mar 29 15:29:52 2017 Page 1
ID:jTgj18SwfyF8hyT9h0Yt9kzZiYQ-WZfhRBKaWoFbnKS0ie2MtIxi5YLUM0fJb0qyAbzW1Wz

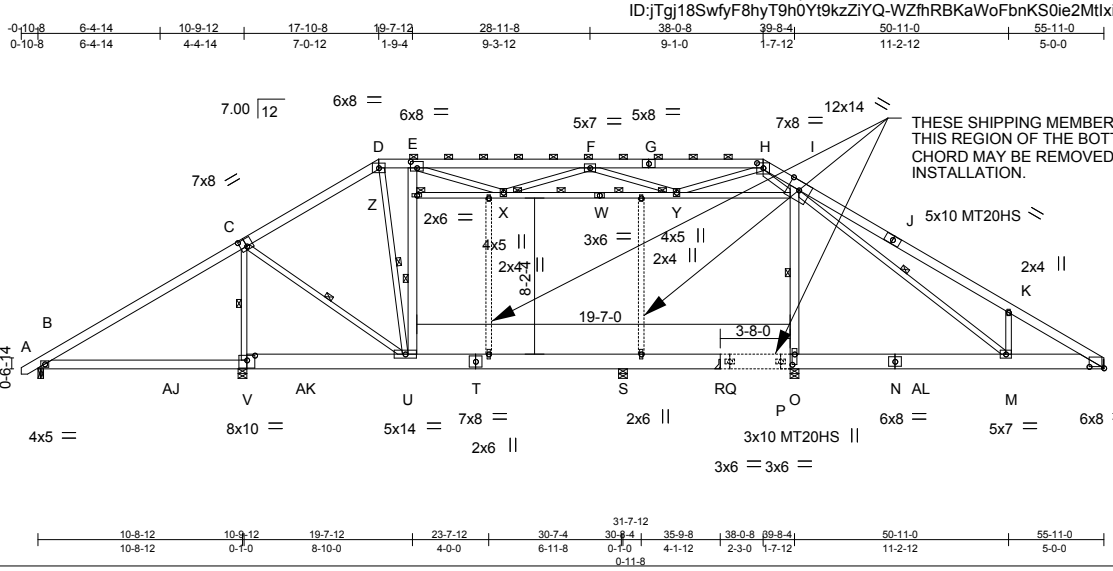



Plate Offsets (X,Y)-- [C:0-4-0,0-4-12], [E:0-4-0,0-4-0], [H:0-4-0,0-3-3], [L:0-9-4,0-0-15], [O:0-6-8,0-1-8], [V:0-5-0,0-3-0]

| 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 | 0.78 | Vert(LL) | -0.13 | S-U | >999 | 360 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.69 | Vert(TL) | -0.28 | S-U | >848 | 240 | MT20HS | 187/143 |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.89 | Horz(TL) | 0.18 | L | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2009/TPI2007 | (Matrix-S) | | Wind(LL) | 0.25 | V-AG | >522 | 240 | Weight: 540 lb | FT = 20% |

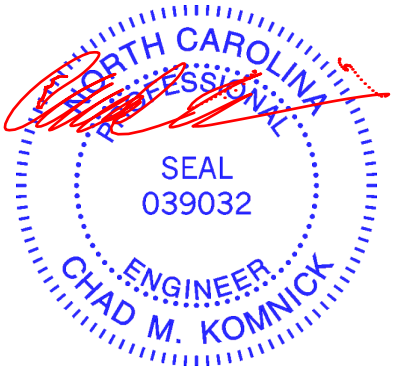
**LUMBER-**
TOP CHORD 2x6 SP No.2
BOT CHORD 2x10 SP No.1 *Except*
B-V: 2x6 SP No.2
WEBS 2x4 SP No.3 *Except*
E-U,I-O: 2x6 SP No.2, I-W,W-Z,I-M: 2x4 SP No.2

**BRACING-**
TOP CHORD Structural wood sheathing directly applied, except 2-0-0 oc purlins (5-5-9 max.): D-H.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt C-V, U-Z, I-O, D-U, C-U, I-M
2 Rows at 1/3 pts X-Y
JOINTS 1 Brace at Jt(s): X, Y, Z

**REACTIONS.** All bearings 0-5-8 except (jt=length) B=0-3-8, L=Mechanical, R=Mechanical.
(lb) - Max Horz V=562(LC 7)
Max Uplift All uplift 100 lb or less at joint(s) R except B=-750(LC 17), V=-1607(LC 7), O=-523(LC 6), L=-420(LC 9)
Max Grav All reactions 250 lb or less at joint(s) B, R except V=3288(LC 16), O=1534(LC 2), L=605(LC 15), S=1315(LC 12)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-C=-1038/2056, C-D=-163/776, D-E=-54/818, E-F=-1164/1653, F-G=-1428/1548, G-H=-1428/1548, H-I=-908/876, I-J=-800/1490, J-K=-1073/1454, K-L=-929/963
BOT CHORD B-AJ=-1645/1033, V-AJ=-1645/1033, V-AK=-1699/762, U-AK=-1695/763, L-M=-771/803
WEBS C-V=-2730/1922, U-Z=-1024/934, E-Z=-929/937, W-X=-1756/2081, W-Y=-1756/2081, I-Y=-848/737, I-O=-1367/1079, K-M=-521/911, E-X=-907/1253, F-X=-978/1021, F-Y=-750/1133, H-Y=-1061/867, D-U=-487/91, C-U=-832/2077, I-M=-989/1029

**NOTES-** (15)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Exterior(2) zone; end vertical left and right exposed; porch left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
4) Provide adequate drainage to prevent water ponding.
5) All plates are MT20 plates unless otherwise indicated.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
8) Ceiling dead load (5.0 psf) on member(s). X-Z, X-Y, I-Y; Wall dead load (5.0psf) on member(s).U-Z, I-O
9) Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. S-U, R-S, Q-R, O-P
10) Refer to girder(s) for truss to truss connections.
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) R except (jt=lb) B=750, V=1607, O=523, L=420.
12) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and ½" gypsum sheetrock be applied directly to the bottom chord.
13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
14) Attic room checked for L/360 deflection.
15) This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.




March 30,2017




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

| Job | Truss | Truss Type | Qty | Ply | H&H-NC/Calabash/ |
|---|---|---|---|---|---|
| 763062_NC_OFA | A13 | ATTIC | 20 | 1 | I29418246 |
| | | | | | Job Reference (optional) |

Builders FirstSource, Sumter, SC — 7.640 s Sep 29 2015 MiTek Industries, Inc. Wed Mar 29 15:29:53 2017 Page 1
ID:jTgj18SwfyF8hyT9h0Yt9kzZiYQ-_IC3fXLCH5NSPU1DGLZbQWTtrygj5TvSqgaVi1zW1Wy

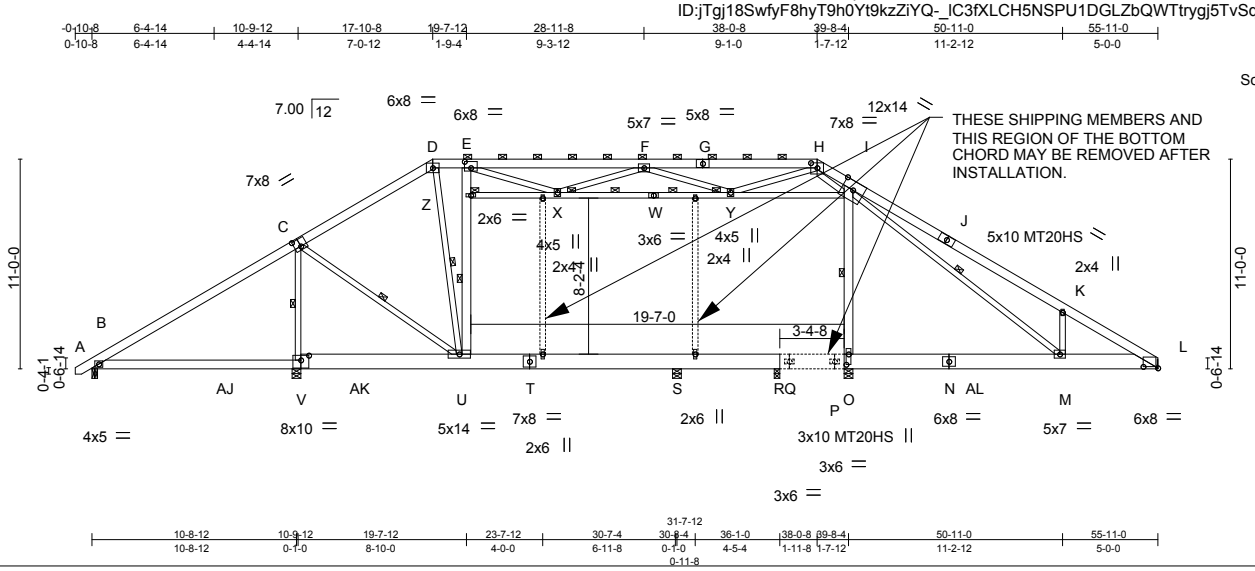



Plate Offsets (X,Y)-- [C:0-4-0,0-4-12], [E:0-4-0,0-4-0], [H:0-4-0,0-3-3], [L:0-9-4,0-0-15], [O:0-6-8,0-1-8], [V:0-5-0,0-3-0]

| 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 | 0.78 | Vert(LL) | -0.13 | S-U | >999 | 360 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.69 | Vert(TL) | -0.28 | S-U | >846 | 240 | MT20HS | 187/143 |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.89 | Horz(TL) | 0.18 | L | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2009/TPI2007 | (Matrix-S) | | Wind(LL) | 0.25 | V-AG | >522 | 240 | Weight: 540 lb | FT = 20% |

**LUMBER-**
TOP CHORD 2x6 SP No.2
BOT CHORD 2x10 SP No.1 *Except*
B-V: 2x6 SP No.2
WEBS 2x4 SP No.3 *Except*
E-U,I-O: 2x6 SP No.2, I-W,W-Z,I-M: 2x4 SP No.2

**BRACING-**
TOP CHORD Structural wood sheathing directly applied, except 2-0-0 oc purlins (5-5-9 max.): D-H.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt C-V, U-Z, I-O, D-U, C-U, I-M
2 Rows at 1/3 pts X-Y
JOINTS 1 Brace at Jt(s): X, Y, Z

**REACTIONS.** All bearings 0-5-8 except (jt=length) B=0-3-8, L=Mechanical, R=0-3-8.
(lb) - Max Horz V=562(LC 7)
Max Uplift All uplift 100 lb or less at joint(s) R except B=-751(LC 17), V=-1608(LC 7), O=-523(LC 6), L=-420(LC 9)
Max Grav All reactions 250 lb or less at joint(s) B, R except V=3290(LC 16), O=1534(LC 2), L=605(LC 15), S=1312(LC 12)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-C=-1039/2058, C-D=-163/776, D-E=-54/818, E-F=-1164/1653, F-G=-1429/1548, G-H=-1429/1548, H-I=-908/876, I-J=-800/1490, J-K=-1073/1454, K-L=-929/963
BOT CHORD B-AJ=-1647/1034, V-AJ=-1647/1034, V-AK=-1701/763, U-AK=-1697/765, L-M=-771/803
WEBS C-V=-2733/1923, U-Z=-1024/934, E-Z=-929/937, W-X=-1756/2081, W-Y=-1756/2081, I-Y=-848/737, I-O=-1368/1079, K-M=-521/911, E-X=-907/1253, F-X=-978/1021, F-Y=-750/1133, H-Y=-1061/867, D-U=-487/91, C-U=-834/2079, I-M=-989/1029

**NOTES-** (15)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Exterior(2) zone; end vertical left exposed; porch left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
4) Provide adequate drainage to prevent water ponding.
5) All plates are MT20 plates unless otherwise indicated.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
8) Ceiling dead load (5.0 psf) on member(s). X-Z, X-Y, I-Y; Wall dead load (5.0psf) on member(s).U-Z, I-O
9) Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. S-U, R-S, Q-R, O-P
10) Refer to girder(s) for truss to truss connections.
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) R except (jt=lb) B=751, V=1608, O=523, L=420.
12) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and ½" gypsum sheetrock be applied directly to the bottom chord.
13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
14) Attic room checked for L/360 deflection.
15) This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.


March 30,2017



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

| Job | Truss | Truss Type | Qty | Ply | H&H-NC/Calabash/ |
|---|---|---|---|---|---|
| 763062_NC_OFA | A14 | ATTIC | 20 | 1 | I29418247 |
| | | | | | Job Reference (optional) |

Builders FirstSource, Sumter, SC — 7.640 s Sep 29 2015 MiTek Industries, Inc. Wed Mar 29 15:29:54 2017 Page 1
ID:jTgj18SwfyF8hyT9h0Yt9kzZiYQ-SymSstMq2PVJ1dcPq34qyj04pLxCquzc3KJ3FTzW1Wx

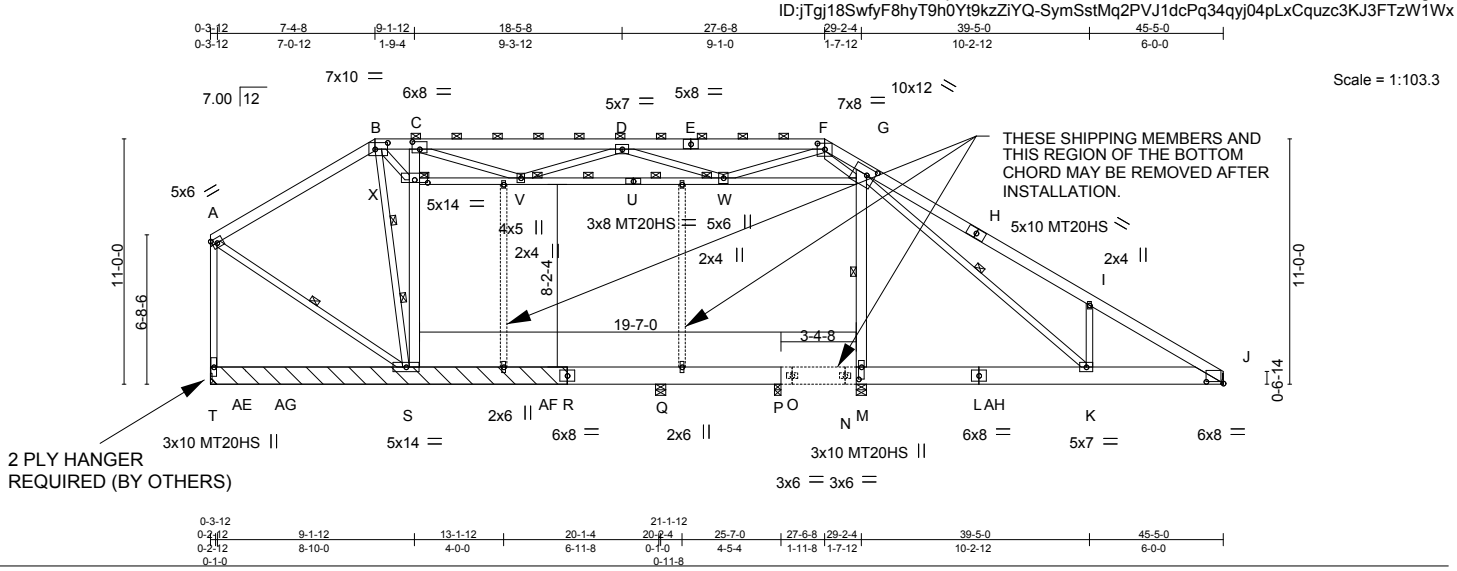



Plate Offsets (X,Y)-- [B:0-6-12,0-3-8], [C:0-4-0,0-4-0], [F:0-4-0,0-3-3], [G:0-4-8,0-4-0], [J:0-9-4,0-0-15], [M:0-6-8,0-1-8], [X:0-7-0,0-1-8]

| 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 | 0.70 | Vert(LL) | -0.29 | Q-S | >822 | 360 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 1.00 | Vert(TL) | -0.68 | Q-S | >351 | 240 | MT20HS | 187/143 |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.96 | Horz(TL) | 0.80 | J | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2009/TPI2007 | (Matrix-S) | | Wind(LL) | 0.44 | S | >552 | 240 | Weight: 550 lb | FT = 20% |

**LUMBER-**

| | |
|---|---|
| TOP CHORD | 2x6 SP No.2 |
| BOT CHORD | 2x10 SP No.1 |
| WEBS | 2x4 SP No.3 *Except* C-S,G-M: 2x6 SP No.2, G-U,U-X: 2x4 SP No.1, G-K,B-X: 2x4 SP No.2 |
| OTHERS | 2x10 SP No.1 |
| LBR SCAB | R-T 2x10 SP No.1 one side |

**BRACING-**

| | |
|---|---|
| TOP CHORD | Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (3-6-3 max.): B-F. |
| BOT CHORD | Rigid ceiling directly applied. |
| WEBS | 1 Row at midpt G-M, G-K, A-S<br>2 Rows at 1/3 pts V-W, B-S |
| JOINTS | 1 Brace at Jt(s): V, W, X |

**REACTIONS.** All bearings 0-5-8 except (jt=length) J=Mechanical, T=Mechanical, P=0-3-8.
(lb) - Max Horz T=-531(LC 6)
Max Uplift All uplift 100 lb or less at joint(s) except M=-464(LC 6), J=-429(LC 9), T=-321(LC 9), Q=-226(LC 7), P=-241(LC 14)
Max Grav All reactions 250 lb or less at joint(s) P except M=1760(LC 2), J=607(LC 15), T=1201(LC 16), Q=1708(LC 12)

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

| | |
|---|---|
| TOP CHORD | A-B=-577/729, B-C=-2501/1077, C-D=-3135/1723, D-E=-2133/1597, E-F=-2133/1597, F-G=-1192/1000, G-H=-672/1454, H-I=-945/1421, I-J=-846/979, A-T=-709/888 |
| BOT CHORD | T-AE=-255/535, AE-AG=-255/535, S-AG=-255/535, J-K=-717/705 |
| WEBS | S-X=-538/1889, C-X=-774/836, V-X=-1169/2649, U-V=-2382/3322, U-W=-2382/3322, G-W=-931/962, G-M=-1578/1058, I-K=-453/821, C-V=-950/783, D-V=-424/1071, D-W=-1305/1092, F-W=-986/1363, G-K=-959/933, B-S=-2281/1128, A-S=-524/476, B-X=-1509/3387 |

**NOTES-** (16)
1) Attached 16-0-0 scab R to T, front face(s) 2x10 SP No.1 with 2 row(s) of 10d (0.131"x3") nails spaced 9" o.c.except : starting at 0-1-12 from end at joint T, nail 2 row(s) at 7" o.c. for 3-11-11; starting at 14-0-0 from end at joint T, nail 2 row(s) at 2" o.c. for 2-0-0.
2) Unbalanced roof live loads have been considered for this design.
3) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Exterior(2) zone; end vertical right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
4) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
5) Provide adequate drainage to prevent water ponding.
6) All plates are MT20 plates unless otherwise indicated.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
9) Ceiling dead load (5.0 psf) on member(s). V-X, V-W, G-W; Wall dead load (5.0psf) on member(s).S-X, G-M
10) Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. Q-S, P-Q, O-P, M-N
11) Refer to girder(s) for truss to truss connections.
12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 464 lb uplift at joint M, 429 lb uplift at joint J, 321 lb uplift at joint T, 226 lb uplift at joint Q and 241 lb uplift at joint P.
13) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and ½" gypsum sheetrock be applied directly to the bottom chord.
14) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
15) Attic room checked for L/360 deflection.

Continued on page 2


March 30,2017



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

16) This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

| Job | Truss | Truss Type | Qty | Ply | H&H-NC/Calabash/ |
|---|---|---|---|---|---|
| 763062_NC_OFA | A15 | ATTIC | 50 | 1 | I29418248 |
| | | | | | Job Reference (optional) |

Builders FirstSource, Sumter, SC — 7.640 s Sep 29 2015 MiTek Industries, Inc. Wed Mar 29 15:29:55 2017 Page 1
ID:jTgj18SwfyF8hyT9h0Yt9kzZiYQ-w8Kq4DMSpjd9enBbOmb3VxZEPlKsZOkIH_3cnwzW1Ww

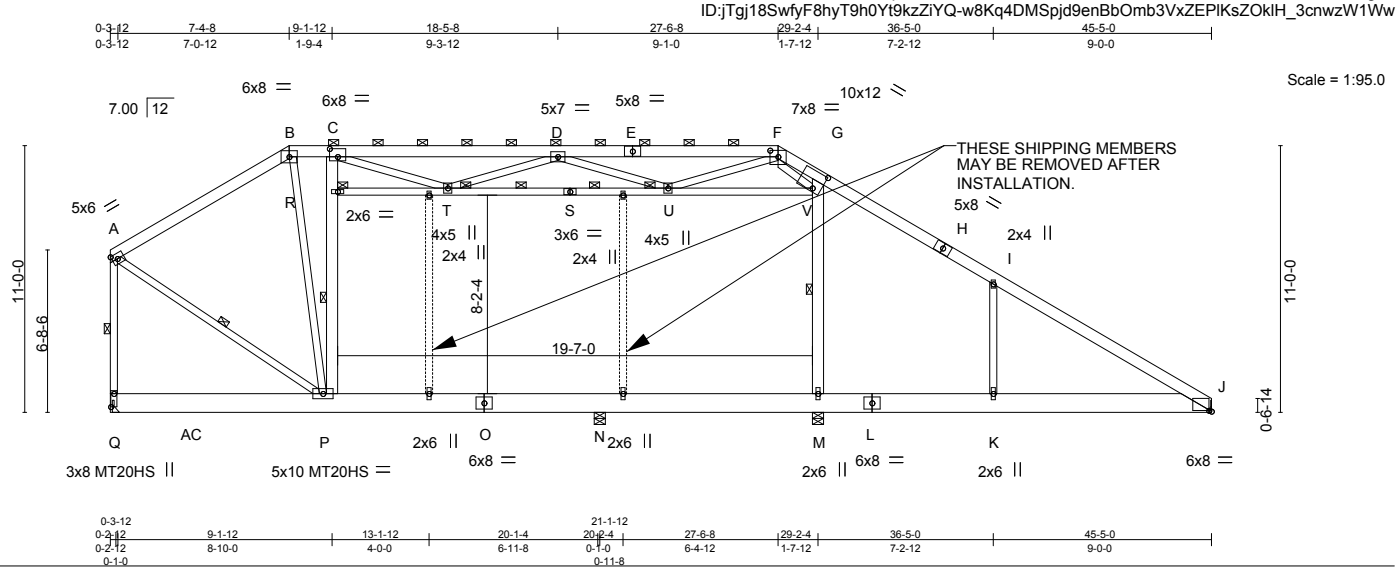



Plate Offsets (X,Y)-- [C:0-4-0,0-4-0], [F:0-4-0,0-3-3], [G:0-4-0,0-8-4], [J:0-1-4,0-0-7], [Q:0-6-8,0-1-8]

| 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 | 0.71 | Vert(LL) | -0.23 | K-AB | >854 | 360 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.78 | Vert(TL) | -0.56 | K-AB | >349 | 240 | MT20HS | 187/143 |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.80 | Horz(TL) | 0.04 | J | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2009/TPI2007 | (Matrix-S) | | Wind(LL) | 0.37 | K-AB | >530 | 240 | Weight: 468 lb | FT = 20% |

**LUMBER-**
TOP CHORD 2x6 SP No.2
BOT CHORD 2x10 SP No.1
WEBS 2x4 SP No.3 *Except*
C-P,G-M: 2x6 SP No.2, R-S,S-V: 2x4 SP No.2

**BRACING-**
TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (4-8-9 max.): B-F.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt P-R, M-V, A-Q, A-P
2 Rows at 1/3 pts T-U
JOINTS 1 Brace at Jt(s): R, T, U

**REACTIONS.** All bearings 0-5-8 except (jt=length) J=Mechanical, Q=Mechanical.
(lb) - Max Horz Q=-531(LC 6)
Max Uplift All uplift 100 lb or less at joint(s) except M=-604(LC 6), J=-142(LC 6), Q=-572(LC 7)
Max Grav All reactions 250 lb or less at joint(s) except M=1784(LC 17), J=1249(LC 2), Q=1776(LC 2), N=1097(LC 12)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD A-B=-1424/844, B-C=-1224/920, C-D=-2006/1728, D-E=-1922/1633, E-F=-1922/1633, F-G=-1344/982, G-H=-1338/770, H-I=-1428/739, I-J=-1545/692, A-Q=-1650/1017
BOT CHORD Q-AC=-250/533, P-AC=-250/533, O-P=-604/1250, N-O=-604/1250, M-N=-604/1250, L-M=-592/1231, K-L=-592/1231, J-K=-592/1231
WEBS P-R=-920/826, C-R=-825/829, S-T=-1725/1652, S-U=-1725/1652, U-V=-587/225, M-V=-616/707, G-V=-586/731, I-K=-347/568, C-T=-900/1043, D-T=-780/1015, D-U=-917/1117, F-U=-961/1168, F-V=-130/602, B-P=-402/618, A-P=-646/1398

**NOTES-** (15)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Exterior(2) zone; end vertical right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
4) Provide adequate drainage to prevent water ponding.
5) All plates are MT20 plates unless otherwise indicated.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
8) Ceiling dead load (5.0 psf) on member(s). R-T, T-U, U-V; Wall dead load (5.0psf) on member(s).P-R, M-V, I-K
9) Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. N-P, M-N, K-M
10) Refer to girder(s) for truss to truss connections.
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 604 lb uplift at joint M, 142 lb uplift at joint J and 572 lb uplift at joint Q.
12) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and ½" gypsum sheetrock be applied directly to the bottom chord.
13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
14) Attic room checked for L/360 deflection.
15) This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.


March 30,2017



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

| Job | Truss | Truss Type | Qty | Ply | H&H-NC/Calabash/ |
|---|---|---|---|---|---|
| 763062_NC_OFA | A16 | ATTIC | 10 | 1 | I29418249 |
| | | | | | Job Reference (optional) |

Builders FirstSource, Sumter, SC

7.640 s Sep 29 2015 MiTek Industries, Inc. Wed Mar 29 15:29:56 2017 Page 1
ID:jTgj18SwfyF8hyT9h0Yt9kzZiYQ-OKuCHZN4a0l0GxmoxU6I285P99g5IrzuWeoAJMzW1Wv

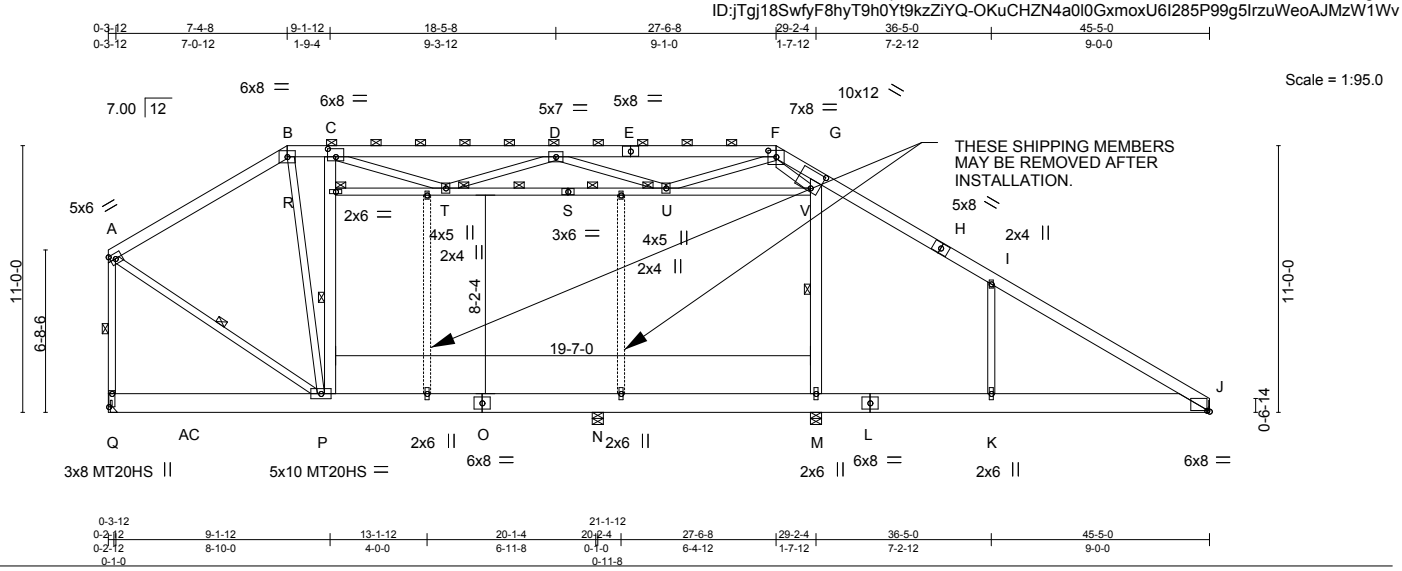



Plate Offsets (X,Y)-- [C:0-4-0,0-4-0], [F:0-4-0,0-3-3], [G:0-4-0,0-8-4], [J:0-1-4,0-0-7], [Q:0-6-8,0-1-8]

| 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 | 0.71 | Vert(LL) | -0.23 | K-AB | >854 | 360 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.78 | Vert(TL) | -0.56 | K-AB | >349 | 240 | MT20HS | 187/143 |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.80 | Horz(TL) | 0.04 | J | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2009/TPI2007 | (Matrix-S) | | Wind(LL) | 0.37 | K-AB | >530 | 240 | Weight: 468 lb | FT = 20% |

**LUMBER-**
TOP CHORD 2x6 SP No.2
BOT CHORD 2x10 SP No.1
WEBS 2x4 SP No.3 *Except*
C-P,G-M: 2x6 SP No.2, R-S,S-V: 2x4 SP No.2

**BRACING-**
TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (4-8-9 max.): B-F.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt P-R, M-V, A-Q, A-P
2 Rows at 1/3 pts T-U
JOINTS 1 Brace at Jt(s): R, T, U

**REACTIONS.** All bearings 0-5-8 except (jt=length) J=Mechanical, Q=Mechanical.
(lb) - Max Horz Q=-531(LC 6)
Max Uplift All uplift 100 lb or less at joint(s) except M=-604(LC 6), J=-142(LC 6), Q=-572(LC 7)
Max Grav All reactions 250 lb or less at joint(s) except M=1784(LC 17), J=1249(LC 2), Q=1776(LC 2), N=1097(LC 12)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD A-B=-1424/844, B-C=-1224/920, C-D=-2006/1728, D-E=-1922/1633, E-F=-1922/1633, F-G=-1344/982, G-H=-1338/770, H-I=-1428/739, I-J=-1545/692, A-Q=-1650/1017
BOT CHORD Q-AC=-250/533, P-AC=-250/533, O-P=-604/1250, N-O=-604/1250, M-N=-604/1250, L-M=-592/1231, K-L=-592/1231, J-K=-592/1231
WEBS P-R=-920/826, C-R=-825/829, S-T=-1725/1652, S-U=-1725/1652, U-V=-587/225, M-V=-616/707, G-V=-586/731, I-K=-347/568, C-T=-900/1043, D-T=-780/1015, D-U=-917/1117, F-U=-961/1168, F-V=-130/602, B-P=-402/618, A-P=-646/1398

**NOTES-** (15)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Exterior(2) zone; end vertical right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
4) Provide adequate drainage to prevent water ponding.
5) All plates are MT20 plates unless otherwise indicated.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
8) Ceiling dead load (5.0 psf) on member(s). R-T, T-U, U-V; Wall dead load (5.0psf) on member(s).P-R, M-V, I-K
9) Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. N-P, M-N, K-M
10) Refer to girder(s) for truss to truss connections.
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 604 lb uplift at joint M, 142 lb uplift at joint J and 572 lb uplift at joint Q.
12) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and ½" gypsum sheetrock be applied directly to the bottom chord.
13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
14) Attic room checked for L/360 deflection.
15) This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.


March 30,2017



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

| Job | Truss | Truss Type | Qty | Ply | H&H-NC/Calabash/ |
|---|---|---|---|---|---|
| 763062_NC_OFA | A17 | ATTIC | 2 | 1 | I29418250 |
| | | | | | Job Reference (optional) |

Builders FirstSource, Sumter, SC

7.640 s Sep 29 2015 MiTek Industries, Inc. Wed Mar 29 15:29:57 2017 Page 1
ID:jTgj18SwfyF8hyT9h0Yt9kzZiYQ-tXSaVvOiLKutu5K_VBdXaMeeCZ4Q1GC2IlYjrozW1Wu

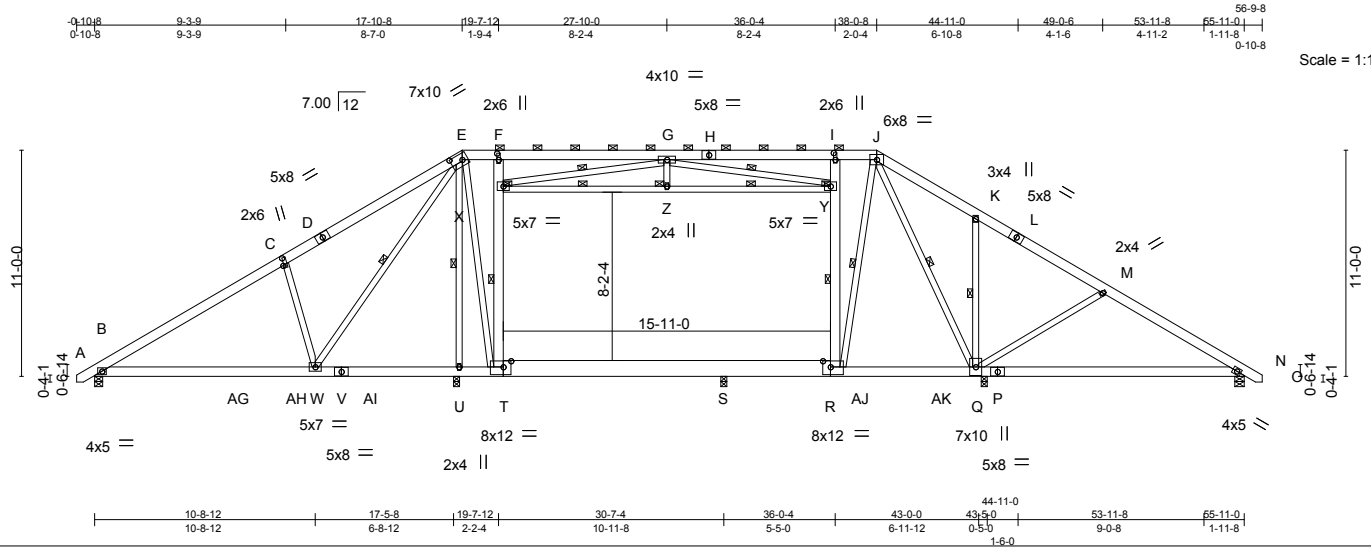



Plate Offsets (X,Y)-- [C:0-4-7,0-0-8], [E:0-6-12,0-3-8], [F:0-3-12,0-1-0], [I:0-4-0,0-1-0], [R:0-4-8,0-3-8], [T:0-4-8,0-3-8]

| 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 | 0.50 | Vert(LL) | -0.13 | Q-AC | >999 | 360 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.52 | Vert(TL) | -0.32 | Q-AC | >495 | 240 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.93 | Horz(TL) | 0.02 | Q | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2009/TPI2007 | (Matrix-S) | | Wind(LL) | 0.10 | W-AF | >999 | 240 | Weight: 510 lb | FT = 20% |

**LUMBER-**
TOP CHORD 2x6 SP No.2
BOT CHORD 2x6 SP No.2 *Except*
K-Q: 2x4 SP No.2, R-T: 2x10 SP No.1
WEBS 2x4 SP No.3 *Except*
F-T,I-R: 2x6 SP No.2, X-Y: 2x4 SP No.2

**BRACING-**
TOP CHORD Structural wood sheathing directly applied, except 2-0-0 oc purlins (6-0-0 max.): E-J.
BOT CHORD Rigid ceiling directly applied. Except: 6-0-0 oc bracing: K-Q
WEBS 1 Row at midpt T-X, X-Z, Y-Z, R-Y, J-R, G-X, G-Y, J-Q, E-W, E-U
JOINTS 1 Brace at Jt(s): X, Y, Z

**REACTIONS.** All bearings 0-3-8 except (jt=length) N=0-5-8, B=0-4-11.
(lb) - Max Horz B=-546(LC 6)
Max Uplift All uplift 100 lb or less at joint(s) except Q=-775(LC 6), U=-611(LC 7), N=-194(LC 9), B=-308(LC 8)
Max Grav All reactions 250 lb or less at joint(s) except Q=1810(LC 1), U=1749(LC 2), N=425(LC 15), B=871(LC 14), S=1246(LC 12)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-C=-1026/729, C-D=-930/951, D-E=-802/999, E-F=-427/620, F-G=-385/567, G-H=-402/589, H-I=-402/589, I-J=-430/626, J-K=-69/348, K-L=-162/366
BOT CHORD K-Q=-343/580, B-AG=-521/818, AG-AH=-521/818, W-AH=-521/818, V-W=-165/376, V-AI=-165/376, U-AI=-165/376, T-U=-173/375, S-T=-209/425, R-S=-210/431, R-AJ=-118/414, AJ-AK=-118/414, Q-AK=-118/414
WEBS C-W=-528/842, T-X=-872/717, F-X=-486/538, X-Z=-1244/1295, Y-Z=-1244/1295, R-Y=-881/829, I-Y=-499/586, J-R=-620/835, G-X=-1355/1310, G-Y=-1329/1288, J-Q=-1054/636, M-Q=-437/628, E-W=-850/861, E-U=-1421/791, E-T=-440/1020

**NOTES-** (13)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Exterior(2) zone; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) Ceiling dead load (5.0 psf) on member(s). X-Z, Y-Z; Wall dead load (5.0psf) on member(s).T-X, R-Y
8) Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. S-T, R-S
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 775 lb uplift at joint Q, 611 lb uplift at joint U , 194 lb uplift at joint N and 308 lb uplift at joint B.
10) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and ½" gypsum sheetrock be applied directly to the bottom chord.
11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
12) Attic room checked for L/360 deflection.
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.


March 30,2017



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

| Job | Truss | Truss Type | Qty | Ply | H&H-NC/Calabash/ |
|---|---|---|---|---|---|
| 763062_NC_OFA | A18 | ATTIC | 2 | 1 | I29418251 |
| | | | | | Job Reference (optional) |

Builders FirstSource, Sumter, SC

7.640 s Sep 29 2015 MiTek Industries, Inc. Wed Mar 29 15:29:58 2017 Page 1
ID:jTgj18SwfyF8hyT9h0Yt9kzZiYQ-Lj0yiFPL6e0kVFvA3u9m7ZBpxzQfmjSB_yHGOEzW1Wt

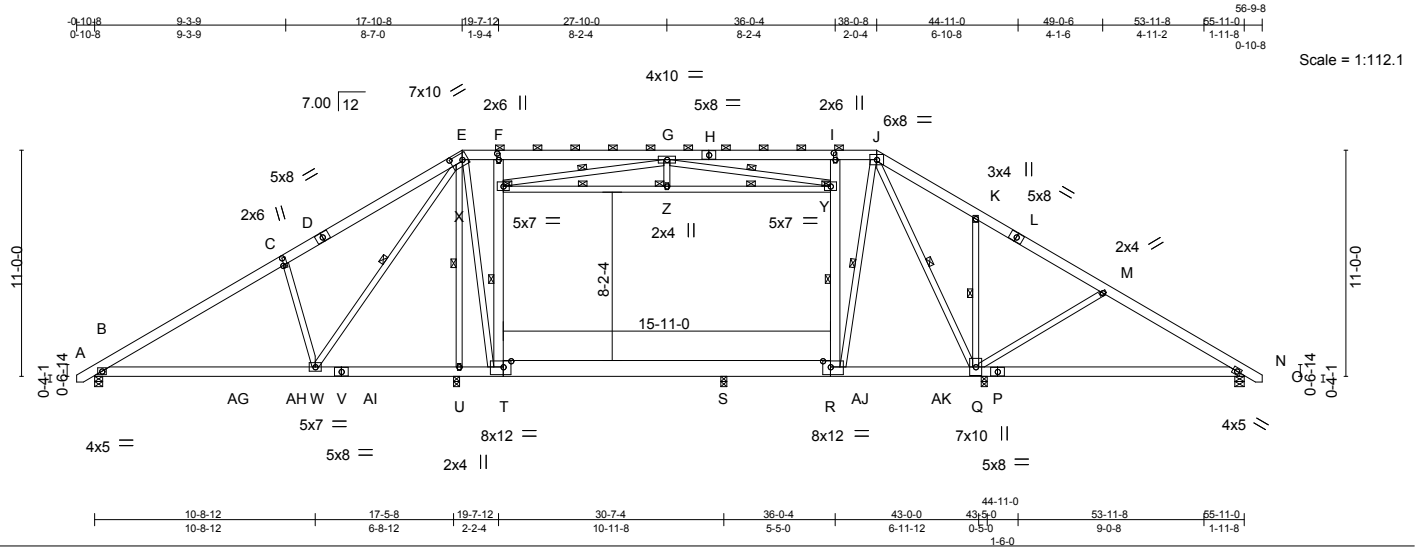



Plate Offsets (X,Y)-- [C:0-4-7,0-0-8], [E:0-6-12,0-3-8], [F:0-3-12,0-1-0], [I:0-4-0,0-1-0], [R:0-4-8,0-3-8], [T:0-4-8,0-3-8]

| 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 | 0.50 | Vert(LL) | -0.13 | Q-AC | >999 | 360 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.52 | Vert(TL) | -0.32 | Q-AC | >495 | 240 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.93 | Horz(TL) | 0.02 | Q | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2009/TPI2007 | (Matrix-S) | | Wind(LL) | 0.10 | W-AF | >999 | 240 | Weight: 510 lb | FT = 20% |

**LUMBER-**
TOP CHORD 2x6 SP No.2
BOT CHORD 2x6 SP No.2 *Except*
K-Q: 2x4 SP No.2, R-T: 2x10 SP No.1
WEBS 2x4 SP No.3 *Except*
F-T,I-R: 2x6 SP No.2, X-Y: 2x4 SP No.2

**BRACING-**
TOP CHORD Structural wood sheathing directly applied, except 2-0-0 oc purlins (6-0-0 max.): E-J.
BOT CHORD Rigid ceiling directly applied. Except: 6-0-0 oc bracing: K-Q
WEBS 1 Row at midpt T-X, X-Z, Y-Z, R-Y, J-R, G-X, G-Y, J-Q, E-W, E-U
JOINTS 1 Brace at Jt(s): X, Y, Z

**REACTIONS.** All bearings 0-3-8 except (jt=length) N=0-5-8, B=0-4-11.
(lb) - Max Horz B=-546(LC 6)
Max Uplift All uplift 100 lb or less at joint(s) except Q=-775(LC 6), U=-611(LC 7), N=-194(LC 9), B=-308(LC 8)
Max Grav All reactions 250 lb or less at joint(s) except Q=1810(LC 1), U=1749(LC 2), N=425(LC 15), B=871(LC 14), S=1246(LC 12)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-C=-1026/729, C-D=-930/951, D-E=-802/999, E-F=-427/620, F-G=-385/567, G-H=-402/589, H-I=-402/589, I-J=-430/626, J-K=-69/348, K-L=-162/366
BOT CHORD K-Q=-343/580, B-AG=-521/818, AG-AH=-521/818, W-AH=-521/818, V-W=-165/376, V-AI=-165/376, U-AI=-165/376, T-U=-173/375, S-T=-209/425, R-S=-210/431, R-AJ=-118/414, AJ-AK=-118/414, Q-AK=-118/414
WEBS C-W=-528/842, T-X=-872/717, F-X=-486/538, X-Z=-1244/1295, Y-Z=-1244/1295, R-Y=-881/829, I-Y=-499/586, J-R=-620/835, G-X=-1355/1310, G-Y=-1329/1288, J-Q=-1054/636, M-Q=-437/628, E-W=-850/861, E-U=-1421/791, E-T=-440/1020

**NOTES-** (13)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Exterior(2) zone; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) Ceiling dead load (5.0 psf) on member(s). X-Z, Y-Z; Wall dead load (5.0psf) on member(s).T-X, R-Y
8) Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. S-T, R-S
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 775 lb uplift at joint Q, 611 lb uplift at joint U , 194 lb uplift at joint N and 308 lb uplift at joint B.
10) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and ½" gypsum sheetrock be applied directly to the bottom chord.
11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
12) Attic room checked for L/360 deflection.
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.


March 30,2017



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

| Job | Truss | Truss Type | Qty | Ply | H&H-NC/Calabash/ |
|---|---|---|---|---|---|
| 763062_NC_OFA | A19 | ATTIC | 4 | 1 | I29418252 |
| | | | | | Job Reference (optional) |

Builders FirstSource, Sumter, SC — 7.640 s Sep 29 2015 MiTek Industries, Inc. Wed Mar 29 15:29:59 2017 Page 1
ID:jTgj18SwfyF8hyT9h0Yt9kzZiYQ-pvaLwaPztx8b7PUNdcg?fnj_nMm_VAwLCc1qwhzW1Ws

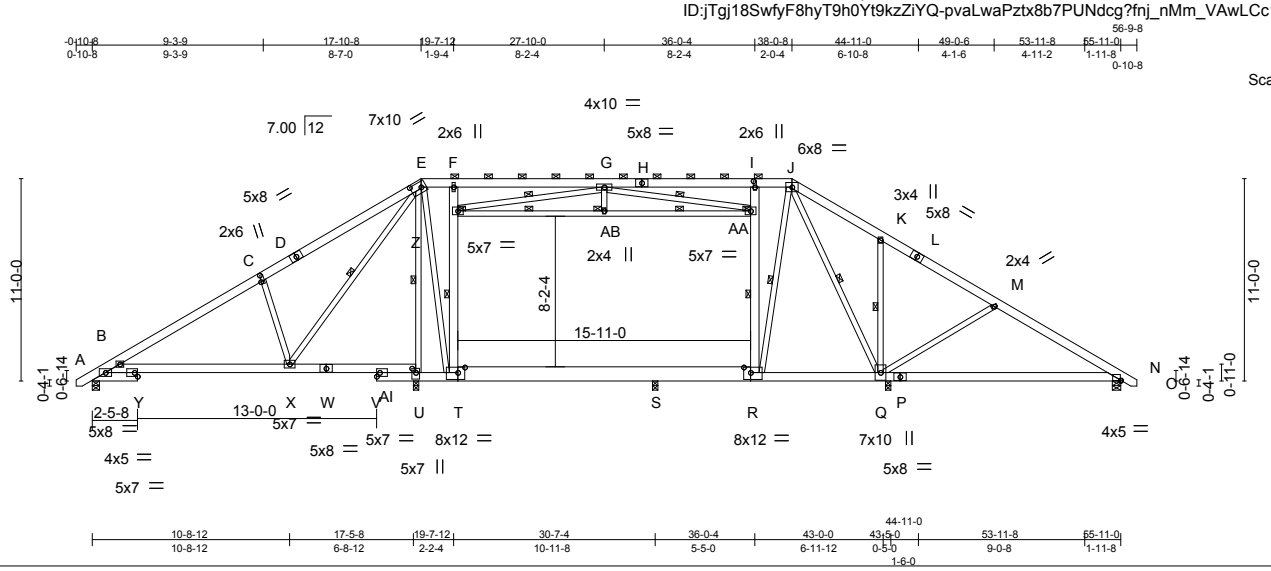



Plate Offsets (X,Y)-- [C:0-4-6,0-0-8], [E:0-6-12,0-3-8], [I:0-4-0,0-1-0], [N:0-0-5,0-0-4], [R:0-4-8,0-3-8], [T:0-4-8,0-3-8], [U:0-2-12,0-2-8]

| 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 | 0.49 | Vert(LL) | -0.12 | Q-AH | >999 | 360 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.51 | Vert(TL) | -0.31 | Q-AH | >500 | 240 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.92 | Horz(TL) | 0.03 | S | n/a | n/a | | |
| BCDL | 10.0 | Code IRC2009/TPI2007 | | (Matrix-S) | | Wind(LL) | 0.14 | X-AC | >999 | 240 | Weight: 518 lb | FT = 20% |

**LUMBER-**
TOP CHORD 2x6 SP No.2
BOT CHORD 2x6 SP No.2 *Except*
K-Q: 2x4 SP No.2, R-T: 2x10 SP No.1
WEBS 2x4 SP No.3 *Except*
F-T,I-R: 2x6 SP No.2, Z-AA: 2x4 SP No.2

**BRACING-**
TOP CHORD Structural wood sheathing directly applied, except 2-0-0 oc purlins (6-0-0 max.): E-J.
BOT CHORD Rigid ceiling directly applied. Except: 6-0-0 oc bracing: K-Q
WEBS 1 Row at midpt T-Z, Z-AB, AA-AB, R-AA, J-R, G-Z, G-AA, J-Q, E-X, E-U
JOINTS 1 Brace at Jt(s): Z, AA, AB

**REACTIONS.** All bearings 0-3-8 except (jt=length) B=0-4-11, N=0-5-8.
(lb) - Max Horz B=545(LC 7)
Max Uplift All uplift 100 lb or less at joint(s) except B=-292(LC 8), Q=-736(LC 6), U=-635(LC 7), N=-194(LC 9)
Max Grav All reactions 250 lb or less at joint(s) except B=788(LC 14), Q=1894(LC 1), U=1804(LC 2), N=367(LC 15), S=1270(LC 12)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-C=-952/678, C-D=-848/880, D-E=-702/928, E-F=-318/552, F-G=-267/496, G-H=-299/526, H-I=-299/526, I-J=-322/559, J-K=-134/529, K-L=-257/548, L-M=-291/376, M-N=-234/282
BOT CHORD B-Y=-515/763, X-Y=-515/763, W-X=-126/429, W-AI=-126/429, V-AI=-126/429, U-V=-128/428, T-U=-133/417, S-T=-164/383, R-S=-164/384, Q-R=-74/479, K-Q=-344/580
WEBS C-X=-546/842, T-Z=-884/721, F-Z=-497/534, Z-AB=-1244/1294, AA-AB=-1244/1294, R-AA=-877/827, I-AA=-497/585, J-R=-612/809, G-Z=-1360/1314, G-AA=-1322/1283, J-Q=-1138/680, M-Q=-439/629, E-X=-840/882, E-U=-1391/812, E-T=-433/961

**NOTES-** (13)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Exterior(2) zone; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) Ceiling dead load (5.0 psf) on member(s). Z-AB, AA-AB; Wall dead load (5.0psf) on member(s).T-Z, R-AA
8) Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. S-T, R-S
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 292 lb uplift at joint B, 736 lb uplift at joint Q, 635 lb uplift at joint U and 194 lb uplift at joint N.
10) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and ½" gypsum sheetrock be applied directly to the bottom chord.
11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
12) Attic room checked for L/360 deflection.
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.


March 30,2017



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

| Job | Truss | Truss Type | Qty | Ply | H&H-NC/Calabash/ I29418253 |
|---|---|---|---|---|---|
| 763062_NC_OFA | A20 | ATTIC | 6 | 1 | Job Reference (optional) |

Builders FirstSource, Sumter, SC

7.640 s Sep 29 2015 MiTek Industries, Inc. Wed Mar 29 15:30:00 2017 Page 1
ID:jTgj18SwfyF8hyT9h0Yt9kzZiYQ-H68j7wQbeFGSlY3ZAJBEC_G9Um6NEdCURGmNS7zW1Wr

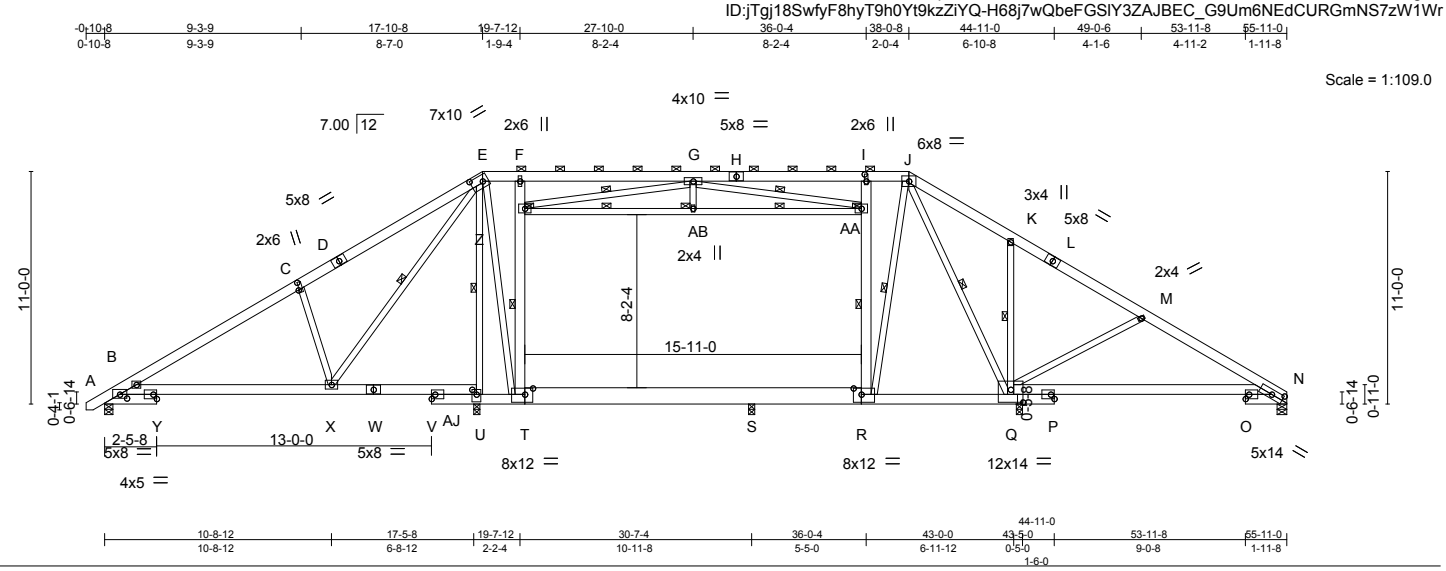



Plate Offsets (X,Y)-- [B:0-4-0,0-2-3], [C:0-4-6,0-0-8], [E:0-6-12,0-3-8], [I:0-4-0,0-1-0], [N:0-6-12,0-2-11], [Q:0-7-0,0-7-4], [R:0-4-8,0-3-8], [T:0-4-8,0-3-8], [U:0-2-12,0-2-8]

| 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 | 0.49 | Vert(LL) | -0.10 | Q-AH | >999 | 360 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.50 | Vert(TL) | -0.28 | X-AC | >750 | 240 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.91 | Horz(TL) | 0.04 | N | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2009/TPI2007 | (Matrix-S) | | Wind(LL) | 0.14 | X-AC | >999 | 240 | Weight: 523 lb | FT = 20% |

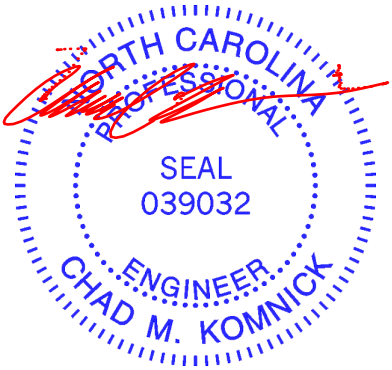
**LUMBER-**
TOP CHORD 2x6 SP No.2
BOT CHORD 2x6 SP No.2 *Except*
K-Q: 2x4 SP No.2, R-T: 2x10 SP No.1
WEBS 2x4 SP No.3 *Except*
F-T,I-R: 2x6 SP No.2, Z-AA: 2x4 SP No.2

**BRACING-**
TOP CHORD Structural wood sheathing directly applied, except 2-0-0 oc purlins (6-0-0 max.): E-J.
BOT CHORD Rigid ceiling directly applied. Except: 6-0-0 oc bracing: K-Q
WEBS 1 Row at midpt T-Z, Z-AB, AA-AB, R-AA, J-R, G-Z, G-AA, J-Q, E-X, E-U
JOINTS 1 Brace at Jt(s): Z, AA, AB

**REACTIONS.** All bearings 0-3-8 except (jt=length) B=0-4-11, N=0-5-8.
(lb) - Max Horz B=560(LC 7)
Max Uplift All uplift 100 lb or less at joint(s) except B=-316(LC 8), Q=-713(LC 6), N=-132(LC 9), U=-587(LC 7)
Max Grav All reactions 250 lb or less at joint(s) N except B=766(LC 14), Q=1967(LC 1), U=1848(LC 2), S=1267(LC 12)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-C=-906/705, C-D=-801/907, D-E=-656/955, E-F=-228/571, F-G=-183/514, G-H=-205/547, H-I=-205/547, I-J=-231/578, J-K=-4/660, K-L=-239/679, L-M=-274/508, M-N=-113/385
BOT CHORD B-Y=-619/722, X-Y=-619/722, W-X=-222/348, W-AJ=-222/348, V-AJ=-222/348, U-V=-224/348, T-U=-229/337, S-T=-261/331, R-S=-261/332, Q-R=-175/401, P-Q=-294/141, O-P=-266/145, N-O=-312/42, K-Q=-347/586
WEBS C-X=-545/843, T-Z=-880/723, F-Z=-495/535, Z-AB=-1244/1294, AA-AB=-1244/1294, R-AA=-879/825, I-AA=-499/583, J-R=-617/810, G-Z=-1357/1316, G-AA=-1325/1282, J-Q=-1209/678, M-Q=-447/618, E-X=-850/877, E-U=-1429/800, E-T=-432/958

**NOTES-** (14)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Exterior(2) zone; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
4) Provide adequate drainage to prevent water ponding.
5) All plates are 5x7 MT20 unless otherwise indicated.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
8) Ceiling dead load (5.0 psf) on member(s). Z-AB, AA-AB; Wall dead load (5.0psf) on member(s).T-Z, R-AA
9) Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. S-T, R-S
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 316 lb uplift at joint B, 713 lb uplift at joint Q, 132 lb uplift at joint N and 587 lb uplift at joint U.
11) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and ½" gypsum sheetrock be applied directly to the bottom chord.
12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
13) Attic room checked for L/360 deflection.
14) 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.




March 30,2017



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

| Job | Truss | Truss Type | Qty | Ply | H&H-NC/Calabash/ |
|---|---|---|---|---|---|
| 763062_NC_OFA | A21 | ATTIC | 2 | 1 | I29418254 |
| | | | | | Job Reference (optional) |

Builders FirstSource, Sumter, SC — 7.640 s Sep 29 2015 MiTek Industries, Inc. Wed Mar 29 15:30:01 2017 Page 1
ID:jTgj18SwfyF8hyT9h0Yt9kzZiYQ-IIh5KGRDPZOJMielk1iTlCpKBAScz47dgwWx_ZzW1Wq

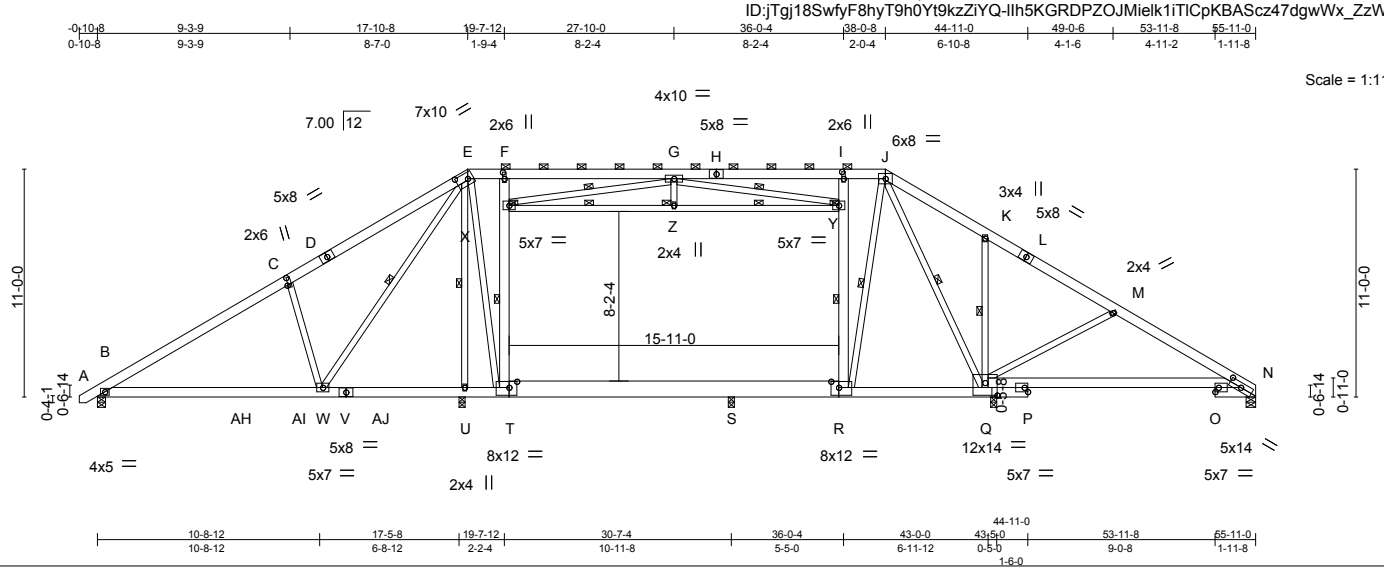



Plate Offsets (X,Y)-- [C:0-4-7,0-0-8], [E:0-6-12,0-3-8], [F:0-3-12,0-1-0], [I:0-4-0,0-1-0], [N:0-7-0,0-2-11], [Q:0-7-0,0-7-4], [R:0-4-8,0-3-8], [T:0-4-8,0-3-8]

| 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 | 0.50 | Vert(LL) | -0.10 | Q-AF | >999 | 360 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.50 | Vert(TL) | -0.26 | Q-AF | >594 | 240 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.93 | Horz(TL) | 0.03 | N | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2009/TPI2007 | (Matrix-S) | | Wind(LL) | 0.10 | W-AC | >999 | 240 | Weight: 515 lb | FT = 20% |

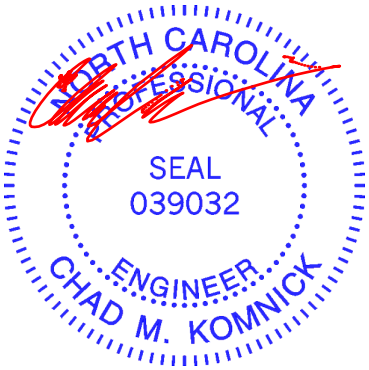
**LUMBER-**
TOP CHORD 2x6 SP No.2
BOT CHORD 2x6 SP No.2 *Except*
K-Q: 2x4 SP No.2, R-T: 2x10 SP No.1
WEBS 2x4 SP No.3 *Except*
F-T,I-R: 2x6 SP No.2, X-Y: 2x4 SP No.2

**BRACING-**
TOP CHORD Structural wood sheathing directly applied, except 2-0-0 oc purlins (6-0-0 max.): E-J.
BOT CHORD Rigid ceiling directly applied. Except: 6-0-0 oc bracing: K-Q
WEBS 1 Row at midpt T-X, X-Z, Y-Z, R-Y, J-R, G-X, G-Y, J-Q, E-W, E-U
JOINTS 1 Brace at Jt(s): X, Y, Z

**REACTIONS.** All bearings 0-3-8 except (jt=length) B=0-4-11, N=0-5-8.
(lb) - Max Horz B=562(LC 7)
Max Uplift All uplift 100 lb or less at joint(s) except B=-329(LC 8), Q=-743(LC 6), N=-134(LC 9), U=-565(LC 7)
Max Grav All reactions 250 lb or less at joint(s) except B=835(LC 14), Q=1904(LC 1), N=267(LC 15), U=1827(LC 2), S=1263(LC 12)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-C=-953/740, C-D=-851/952, D-E=-708/1000, E-F=-302/629, F-G=-258/575, G-H=-279/599, H-I=-279/599, I-J=-308/635, J-K=0/516, K-L=-150/533, L-M=-184/376, M-N=-68/252
BOT CHORD B-AH=-614/755, AH-AI=-614/755, W-AI=-614/755, V-W=-259/322, V-AJ=-259/322, U-AJ=-259/322, T-U=-266/320, S-T=-304/329, R-S=-305/330, Q-R=-217/348, K-Q=-345/585
WEBS C-W=-528/840, T-X=-870/719, F-X=-485/538, X-Z=-1244/1295, Y-Z=-1244/1295, R-Y=-885/828, I-Y=-503/585, J-R=-622/821, G-X=-1351/1312, G-Y=-1332/1287, J-Q=-1138/634, M-Q=-450/620, E-W=-841/856, E-U=-1494/781, E-T=-442/1008

**NOTES-** (13)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Exterior(2) zone; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) Ceiling dead load (5.0 psf) on member(s). X-Z, Y-Z; Wall dead load (5.0psf) on member(s).T-X, R-Y
8) Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. S-T, R-S
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 329 lb uplift at joint B, 743 lb uplift at joint Q, 134 lb uplift at joint N and 565 lb uplift at joint U.
10) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and ½" gypsum sheetrock be applied directly to the bottom chord.
11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
12) Attic room checked for L/360 deflection.
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.




March 30,2017



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

| Job | Truss | Truss Type | Qty | Ply | H&H-NC/Calabash/ |
|---|---|---|---|---|---|
| 763062_NC_OFA | A22 | ATTIC | 2 | 1 | I29418255 |
| | | | | | Job Reference (optional) |

Builders FirstSource, Sumter, SC — 7.640 s Sep 29 2015 MiTek Industries, Inc. Wed Mar 29 15:30:02 2017 Page 1

ID:jTgj18SwfyF8hyT9h0Yt9kzZiYQ-DUFTYcSr9sWA_sDxIkDiHPLV5an5iZunuaFUX0zW1Wp

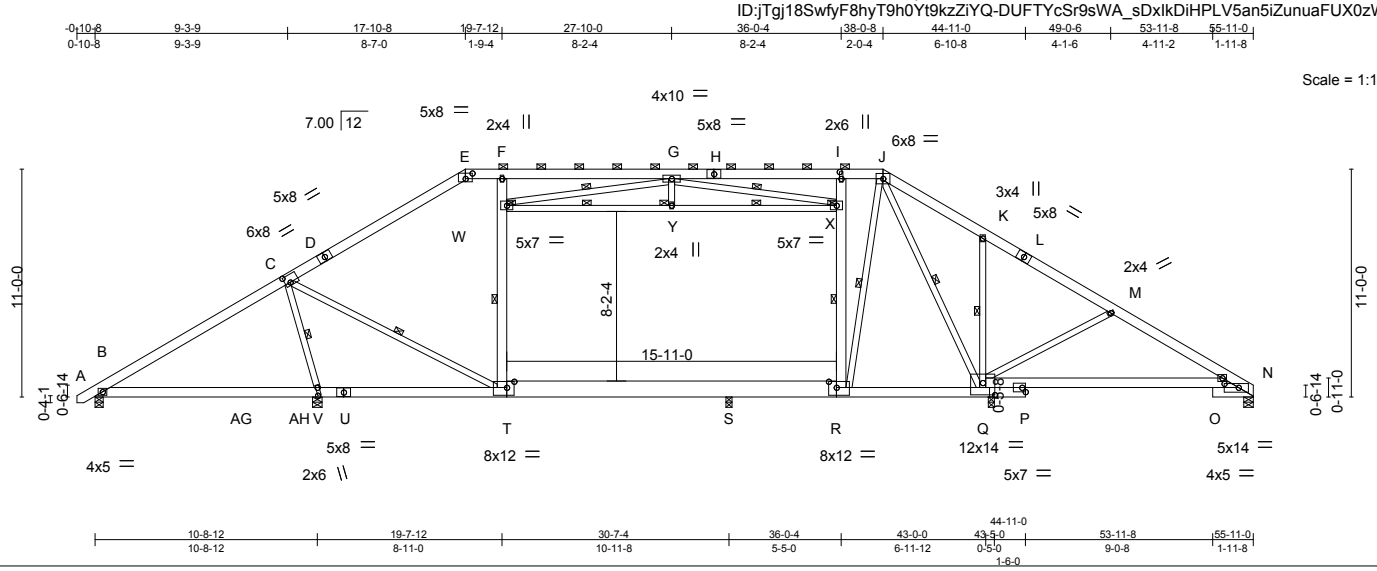



Plate Offsets (X,Y)-- [C:0-3-0,0-4-4], [E:0-4-0,0-3-3], [I:0-4-0,0-1-0], [N:0-8-4,0-2-5], [Q:0-7-0,0-7-0], [R:0-4-8,0-3-8], [T:0-4-4,0-3-8], [V:0-4-8,0-1-0]

| 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 | 0.49 | Vert(LL) | -0.11 | Q-AE | >999 | 360 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.55 | Vert(TL) | -0.32 | Q-AE | >484 | 240 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.77 | Horz(TL) | 0.04 | N | n/a | n/a | | |
| BCDL | 10.0 | Code IRC2009/TPI2007 | | (Matrix-S) | | Wind(LL) | 0.10 | T-V | >999 | 240 | Weight: 484 lb | FT = 20% |

**LUMBER-**

TOP CHORD 2x6 SP No.2
BOT CHORD 2x6 SP No.2 *Except*
K-Q: 2x4 SP No.2, R-T: 2x10 SP No.1
WEBS 2x4 SP No.3 *Except*
F-T,I-R: 2x6 SP No.2, W-X: 2x4 SP No.2

**BRACING-**

TOP CHORD Structural wood sheathing directly applied, except 2-0-0 oc purlins (6-0-0 max.): E-J.
BOT CHORD Rigid ceiling directly applied. Except: 6-0-0 oc bracing: K-Q
WEBS 1 Row at midpt C-V, T-W, W-Y, X-Y, R-X, J-R, G-W, G-X, J-Q, C-T
JOINTS 1 Brace at Jt(s): W, X, Y

**REACTIONS.** All bearings 0-3-8 except (jt=length) B=0-4-11, N=0-5-8, V=0-5-8.
(lb) - Max Horz B=562(LC 7)
Max Uplift All uplift 100 lb or less at joint(s) except B=-217(LC 8), Q=-895(LC 6), N=-158(LC 8), V=-794(LC 7)
Max Grav All reactions 250 lb or less at joint(s) B except Q=1745(LC 15), N=534(LC 2), V=2319(LC 2), S=1290(LC 12)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-C=-241/684, C-D=-920/728, D-E=-777/777, E-F=-695/838, F-G=-702/805, G-H=-601/774, H-I=-601/774, I-J=-689/839, J-K=-346/480, K-L=-333/272, L-M=-367/238, M-N=-662/436
BOT CHORD B-AG=-543/479, AG-AH=-543/479, V-AH=-543/479, U-V=-1014/592, T-U=-1014/592, S-T=-426/693, R-S=-426/699, Q-R=-333/530, P-Q=-213/555, O-P=-208/572, N-O=-203/344, K-Q=-341/581
WEBS C-V=-2062/1408, T-W=-600/599, F-W=-211/348, W-Y=-1283/1404, X-Y=-1283/1404, R-X=-928/853, I-X=-522/596, J-R=-645/863, G-W=-1432/1329, G-X=-1492/1361, J-Q=-957/558, M-Q=-464/628, C-T=-655/1865

**NOTES-** (13)

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Exterior(2) zone; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) Ceiling dead load (5.0 psf) on member(s). W-Y, X-Y; Wall dead load (5.0psf) on member(s).T-W, R-X
8) Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. S-T, R-S
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 217 lb uplift at joint B, 895 lb uplift at joint Q, 158 lb uplift at joint N and 794 lb uplift at joint V.
10) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and ½" gypsum sheetrock be applied directly to the bottom chord.
11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
12) Attic room checked for L/360 deflection.
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.


March 30,2017




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

| Job | Truss | Truss Type | Qty | Ply | H&H-NC/Calabash/ |
|---|---|---|---|---|---|
| 763062_NC_OFA | A23 | ATTIC | 2 | 1 | I29418256 |
| | | | | | Job Reference (optional) |

Builders FirstSource, Sumter, SC — 7.640 s Sep 29 2015 MiTek Industries, Inc. Wed Mar 29 15:30:03 2017 Page 1
ID:jTgj18SwfyF8hyT9h0Yt9kzZiYQ-hgprlySTwAe1c0o8sSkxqduew_3vR0Lw7E?13SzW1Wo

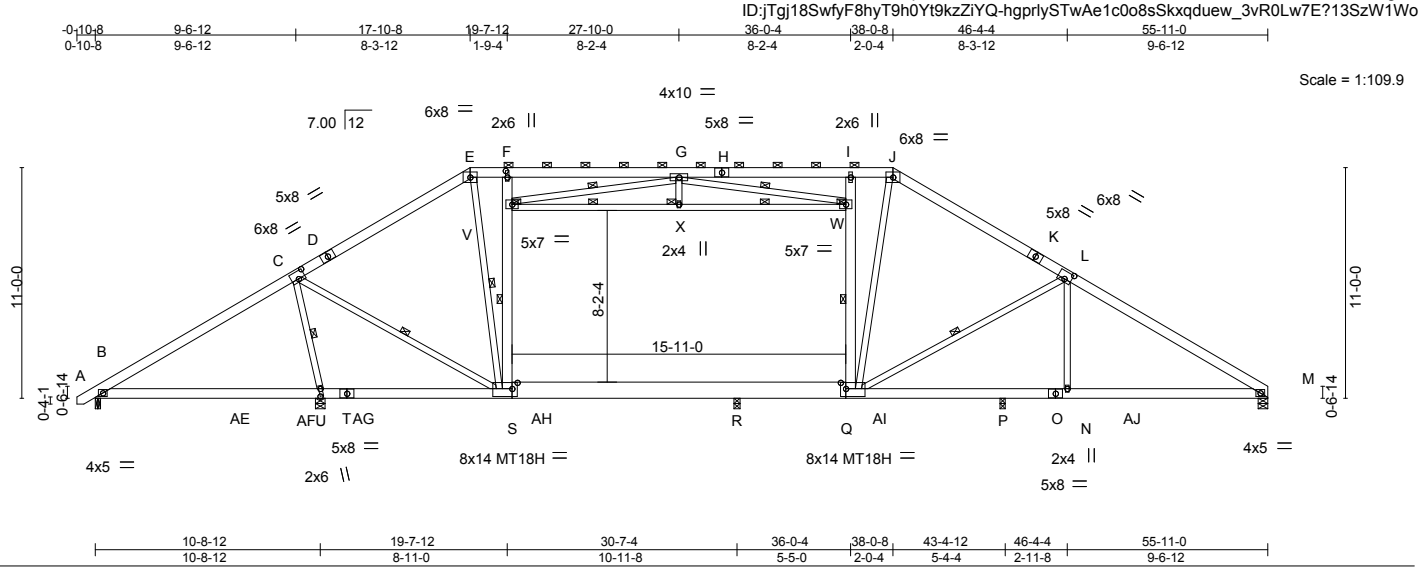



Plate Offsets (X,Y)-- [C:0-4-0,0-4-4], [F:0-3-12,0-1-0], [L:0-4-0,0-4-4], [Q:0-3-0,0-3-8], [S:0-3-0,0-3-8], [U:0-4-4,0-1-0]

| 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 | 0.55 | Vert(LL) | -0.13 | P-Q | >999 | 360 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.83 | Vert(TL) | -0.31 | N-AD | >482 | 240 | MT18H | 244/190 |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.82 | Horz(TL) | 0.05 | M | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2009/TPI2007 | (Matrix-S) | | Wind(LL) | 0.21 | P-Q | >727 | 240 | Weight: 478 lb | FT = 20% |

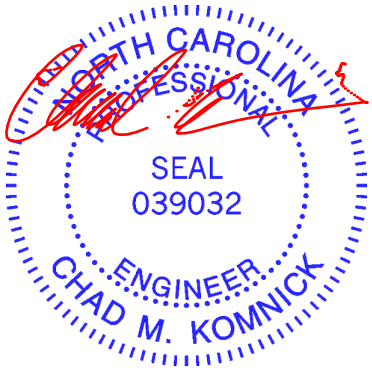
**LUMBER-**
TOP CHORD 2x6 SP No.2
BOT CHORD 2x6 SP No.2 *Except*
O-Q: 2x6 SP No.1, Q-S: 2x10 SP No.1
WEBS 2x4 SP No.3 *Except*
F-S,I-Q: 2x6 SP No.2, V-W: 2x4 SP No.2

**BRACING-**
TOP CHORD Structural wood sheathing directly applied, except 2-0-0 oc purlins (5-7-6 max.): E-J.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt C-U, C-S, E-S, S-V, V-X, W-X, Q-W, G-V, G-W, L-Q
JOINTS 1 Brace at Jt(s): V, W, X

**REACTIONS.** All bearings 0-5-8 except (jt=length) B=0-3-0, R=0-3-8, P=0-3-0.
(lb) - Max Horz B=562(LC 7)
Max Uplift All uplift 100 lb or less at joint(s) R except B=-336(LC 9), U=-825(LC 7), M=-417(LC 9), P=-271(LC 6)
Max Grav All reactions 250 lb or less at joint(s) except B=783(LC 1), U=2108(LC 16), M=1292(LC 2), R=1367(LC 12), P=748(LC 17)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-C=-874/806, C-D=-1616/1153, D-E=-1494/1200, E-F=-1411/1266, F-G=-1333/1161, G-H=-1395/1274, H-I=-1395/1274, I-J=-1418/1280, J-K=-1501/1225, K-L=-1619/1179, L-M=-1917/1303
BOT CHORD B-AE=-451/684, AE-AF=-451/684, U-AF=-451/684, T-U=-241/448, T-AG=-241/448, AG-AH=-241/448, S-AH=-241/448, R-S=-410/1415, Q-R=-416/1427, Q-AI=-880/1597, P-AI=-880/1597, O-P=-880/1597, N-O=-880/1597, N-AJ=-880/1597, M-AJ=-880/1597
WEBS C-U=-1739/955, C-S=-489/1417, E-S=-561/780, S-V=-941/793, F-V=-546/560, V-X=-1238/1278, W-X=-1238/1278, Q-W=-847/705, I-W=-468/526, J-Q=-387/687, L-N=-256/366, G-V=-1403/1364, G-W=-1314/1249, L-Q=-365/599

**NOTES-** (14)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Exterior(2) zone; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
4) Provide adequate drainage to prevent water ponding.
5) All plates are MT20 plates unless otherwise indicated.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
8) Ceiling dead load (5.0 psf) on member(s). V-X, W-X; Wall dead load (5.0psf) on member(s).S-V, Q-W
9) Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. R-S, Q-R
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) R except (jt=lb) B=336, U=825, M=417, P=271.
11) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and ½" gypsum sheetrock be applied directly to the bottom chord.
12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
13) Attic room checked for L/360 deflection.
14) 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.




March 30,2017



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

| Job | Truss | Truss Type | Qty | Ply | H&H-NC/Calabash/ I29418257 |
|---|---|---|---|---|---|
| 763062_NC_OFA | A24 | PIGGYBACK BASE | 4 | 1 | Job Reference (optional) |

Builders FirstSource, Sumter, SC — 7.640 s Sep 29 2015 MiTek Industries, Inc. Wed Mar 29 15:30:04 2017 Page 1
ID:jTgj18SwfyF8hyT9h0Yt9kzZiYQ-9tNDzIT5hUmuDANKP9GAMqRnZNSSARK4MukbbuzW1Wn

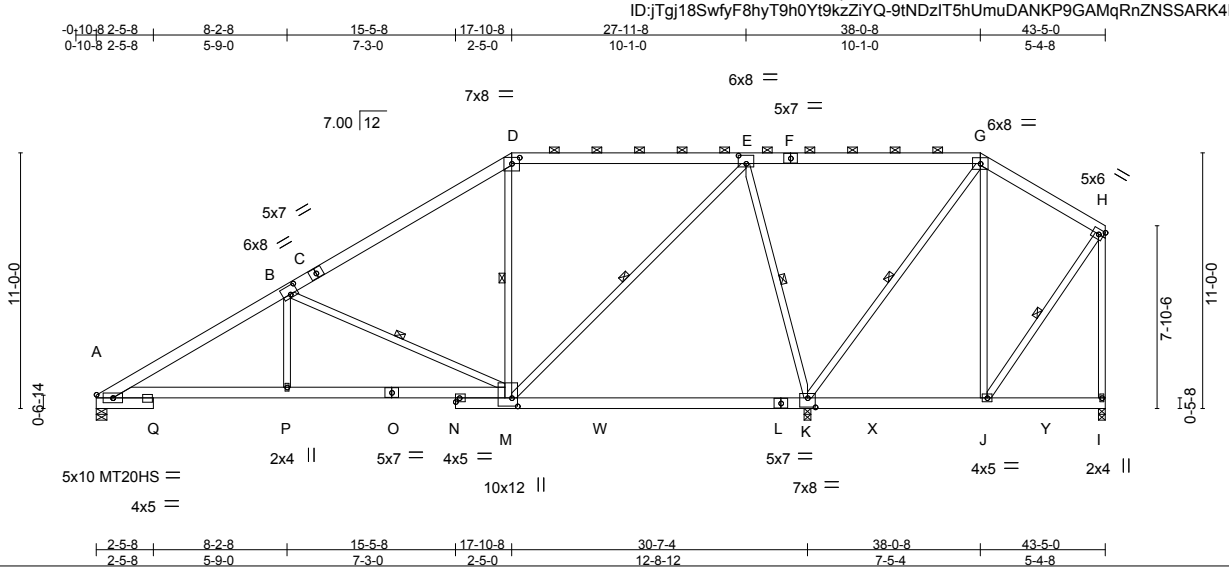



Plate Offsets (X,Y)-- [A:0-8-9,0-1-12], [B:0-4-0,0-4-4], [D:0-4-0,0-3-3], [E:0-4-0,0-4-4], [K:0-4-0,0-4-12], [M:0-4-4,0-3-0]

| 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 | 0.68 | Vert(LL) | -0.25 | K-M | >999 | 360 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.62 | Vert(TL) | -0.44 | K-M | >843 | 240 | MT20HS | 187/143 |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.90 | Horz(TL) | 0.09 | K | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2009/TPI2007 | (Matrix-S) | | Wind(LL) | 0.15 | M-P | >999 | 240 | Weight: 350 lb | FT = 20% |

**LUMBER-**
TOP CHORD 2x6 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3 *Except*
E-M,G-K: 2x4 SP No.2

**BRACING-**
TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): D-G.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt D-M, E-M, E-K, G-K, B-M, H-J

**REACTIONS.** (lb/size) A=1004/0-5-8, K=2352/0-3-8, I=61/0-3-8
Max Horz A=523(LC 7)
Max Uplift A=-333(LC 8), K=-1205(LC 7), I=-245(LC 6)
Max Grav A=1011(LC 13), K=2358(LC 2), I=293(LC 16)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD A-B=-1683/1102, B-C=-903/547, C-D=-752/601, D-E=-650/718, E-F=-326/519, F-G=-326/519, H-I=-195/268
BOT CHORD A-Q=-1405/1453, P-Q=-1405/1453, O-P=-1405/1453, N-O=-1405/1453, M-N=-1407/1439
WEBS B-P=0/339, D-M=-168/376, E-M=-939/1115, E-K=-1500/1553, G-K=-822/823, G-J=-83/271, B-M=-904/1062

**NOTES-** (11)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Exterior(2) zone; end vertical left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
4) Provide adequate drainage to prevent water ponding.
5) All plates are MT20 plates unless otherwise indicated.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) A=333, K=1205, I=245.
9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and ½" gypsum sheetrock be applied directly to the bottom chord.
10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
11) This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.


March 30,2017



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

| Job | Truss | Truss Type | Qty | Ply | H&H-NC/Calabash/ |
|---|---|---|---|---|---|
| 763062_NC_OFA | A25 | PIGGYBACK BASE | 1 | 1 | I29418258 |
| | | | | | Job Reference (optional) |

Builders FirstSource, Sumter, SC

7.640 s Sep 29 2015 MiTek Industries, Inc. Wed Mar 29 15:30:05 2017 Page 1
ID:jTgj18SwfyF8hyT9h0Yt9kzZiYQ-e3xcAeUkSnulrKyWztnPv2zyOnn1vvKDbYU88LzW1Wm

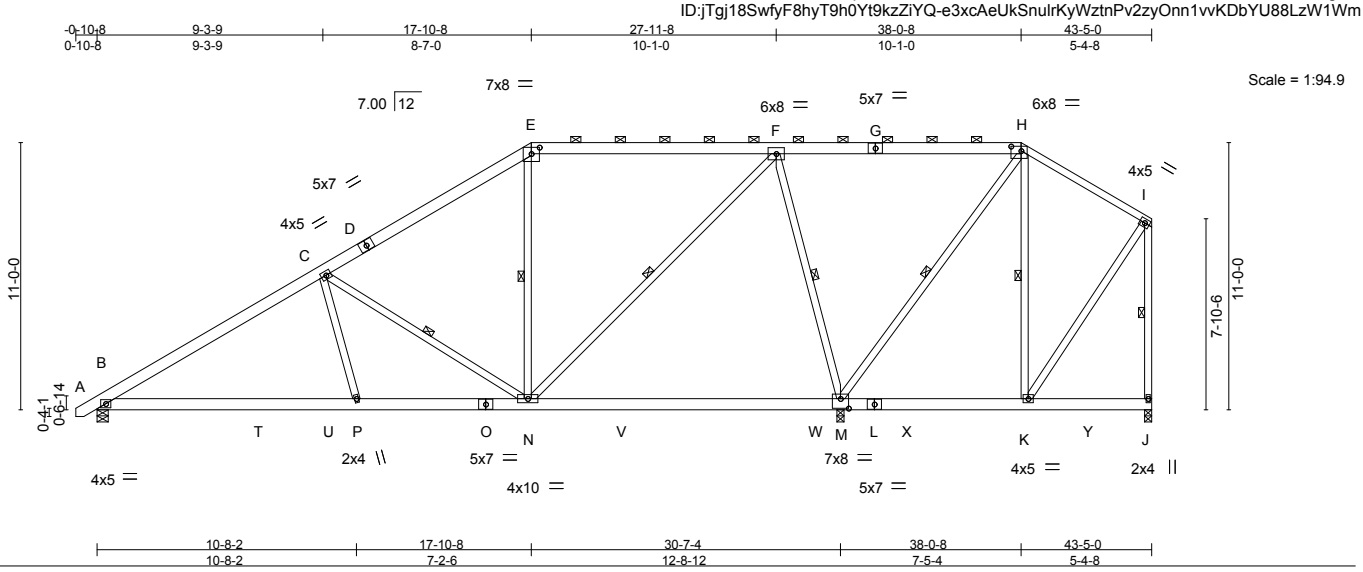



Plate Offsets (X,Y)-- [E:0-4-0,0-3-3], [H:0-5-0,0-2-4], [M:0-4-0,0-4-12]

| 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 | 0.67 | Vert(LL) | -0.26 | M-N | >999 | 360 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.66 | Vert(TL) | -0.51 | M-N | >725 | 240 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.86 | Horz(TL) | 0.03 | J | n/a | n/a | | |
| BCDL | 10.0 | Code IRC2009/TPI2007 | | (Matrix-S) | | Wind(LL) | 0.10 | P-S | >999 | 240 | Weight: 340 lb | FT = 20% |

**LUMBER-**
TOP CHORD 2x6 SP No.2 *Except*
H-I: 2x4 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3 *Except*
F-N,H-M: 2x4 SP No.2

**BRACING-**
TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): E-H.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt C-N, E-N, F-N, F-M, H-M, H-K, I-J

**REACTIONS.** (lb/size) B=1162/0-5-8, M=2107/0-3-8, J=235/0-3-8
Max Horz B=558(LC 8)
Max Uplift B=-442(LC 8), M=-1042(LC 7), J=-192(LC 6)
Max Grav B=1168(LC 13), M=2216(LC 2), J=351(LC 16)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-C=-1603/1060, C-D=-982/703, D-E=-843/751, E-F=-728/823, F-G=-132/306, G-H=-131/309, I-J=-267/215
BOT CHORD B-T=-1290/1314, T-U=-1290/1314, P-U=-1290/1314, O-P=-1274/1361, N-O=-1274/1361
WEBS C-P=0/328, C-N=-755/831, E-N=-89/262, F-N=-795/974, F-M=-1424/1478, H-M=-591/562

**NOTES-** (10)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Exterior(2) zone; end vertical left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) B=442, M=1042, J=192.
8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and ½" gypsum sheetrock be applied directly to the bottom chord.
9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
10) This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.


March 30,2017



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

| Job | Truss | Truss Type | Qty | Ply | H&H-NC/Calabash/ |
|---|---|---|---|---|---|
| 763062_NC_OFA | A26 | ATTIC | 2 | 1 | I29418259 |
| | | | | | Job Reference (optional) |

Builders FirstSource, Sumter, SC — 7.640 s Sep 29 2015 MiTek Industries, Inc. Wed Mar 29 15:30:05 2017 Page 1
ID:jTgj18SwfyF8hyT9h0Yt9kzZiYQ-e3xcAeUkSnulrKyWztnPv2z_hnp7vuEDbYU88LzW1Wm

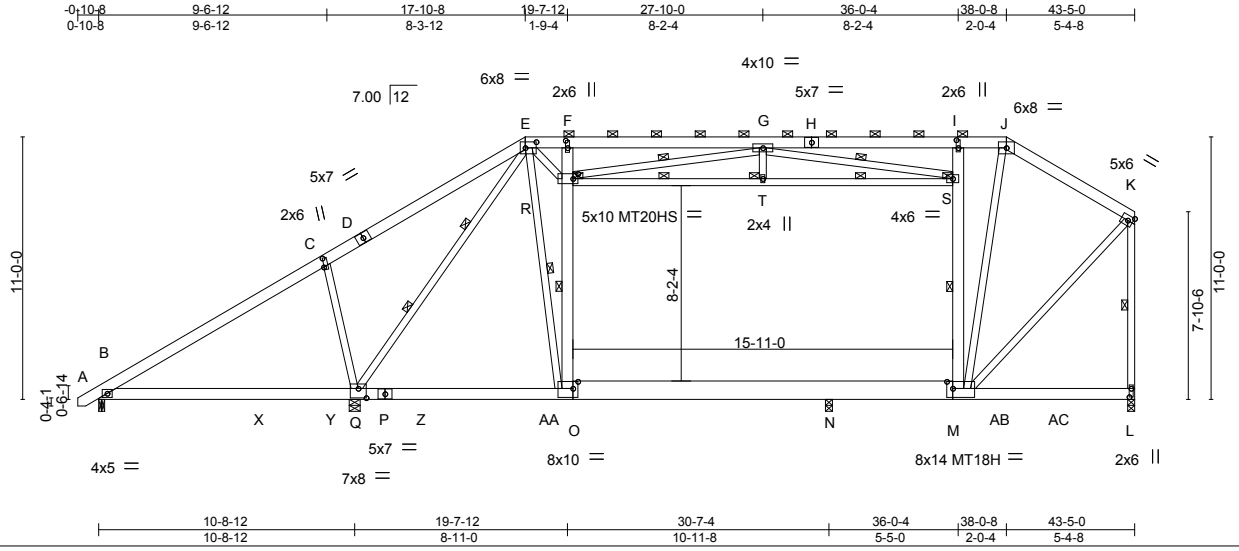



Plate Offsets (X,Y)-- [C:0-4-9,0-0-4], [E:0-5-8,0-3-0], [F:0-3-12,0-1-0], [I:0-4-0,0-1-0], [L:0-4-4,0-1-0], [M:0-3-0,0-3-8], [O:0-2-8,0-3-8], [Q:0-4-0,0-4-12], [R:0-2-8,0-2-8]

| 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 | 0.53 | Vert(LL) | -0.10 | N-O | >999 | 360 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.53 | Vert(TL) | -0.18 | N-O | >999 | 240 | MT20HS | 187/143 |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.93 | Horz(TL) | 0.01 | L | n/a | n/a | MT18H | 244/190 |
| BCDL | 10.0 | Code | IRC2009/TPI2007 | (Matrix-S) | | Wind(LL) | 0.27 | Q-W | >478 | 240 | Weight: 420 lb | FT = 20% |

**LUMBER-**
TOP CHORD 2x6 SP No.2
BOT CHORD 2x6 SP No.2 *Except*
M-O: 2x10 SP No.1
WEBS 2x4 SP No.3 *Except*
E-Q: 2x4 SP No.1, F-O,I-M: 2x6 SP No.2, R-S: 2x4 SP No.2

**BRACING-**
TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): E-J.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt E-O, O-R, R-T, S-T, M-S, G-R, G-S, K-L
2 Rows at 1/3 pts E-Q
JOINTS 1 Brace at Jt(s): R, S, T

**REACTIONS.** All bearings 0-3-8 except (jt=length) B=0-3-0, Q=0-5-8.
(lb) - Max Horz B=554(LC 8)
Max Uplift All uplift 100 lb or less at joint(s) except B=-386(LC 6), Q=-1170(LC 7), L=-477(LC 6)
Max Grav All reactions 250 lb or less at joint(s) except B=298(LC 1), Q=2478(LC 16), L=1301(LC 2), N=1160(LC 12)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-C=-752/596, C-D=-417/501, D-E=-386/665, E-F=-1234/927, F-G=-1234/940, G-H=-696/549, H-I=-696/549, I-J=-771/631, J-K=-865/546, K-L=-1210/769
BOT CHORD B-X=-425/204, X-Y=-425/204, Q-Y=-425/204, P-Q=-314/619, P-Z=-314/619, Z-AA=-314/619, O-AA=-314/619, N-O=-379/772, M-N=-377/777
WEBS C-Q=-556/952, E-Q=-1957/1302, E-O=-535/864, O-R=-630/841, F-R=-492/539, R-T=-1370/1413, S-T=-1370/1413, M-S=-959/889, I-S=-544/611, J-M=-311/466, G-R=-1169/1071, G-S=-1495/1468, K-M=-472/964, E-R=-395/672

**NOTES-** (14)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Exterior(2) zone; end vertical left exposed; porch left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
4) Provide adequate drainage to prevent water ponding.
5) All plates are MT20 plates unless otherwise indicated.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
8) Ceiling dead load (5.0 psf) on member(s). R-T, S-T; Wall dead load (5.0psf) on member(s).O-R, M-S
9) Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. N-O, M-N
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 386 lb uplift at joint B, 1170 lb uplift at joint Q and 477 lb uplift at joint L.
11) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and ½" gypsum sheetrock be applied directly to the bottom chord.
12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
13) Attic room checked for L/360 deflection.
14) 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.


March 30,2017



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

| Job | Truss | Truss Type | Qty | Ply | H&H-NC/Calabash/ |
|---|---|---|---|---|---|
| 763062_NC_OFA | A27 | ATTIC | 4 | 1 | I29418260 |
| | | | | | Job Reference (optional) |

Builders FirstSource, Sumter, SC — 7.640 s Sep 29 2015 MiTek Industries, Inc. Wed Mar 29 15:30:06 2017 Page 1
ID:jTgj18SwfyF8hyT9h0Yt9kzZiYQ-6FV_O_VMD50cTTWjXaIeSFW9gB7zeMgNpCDhgnzW1Wl

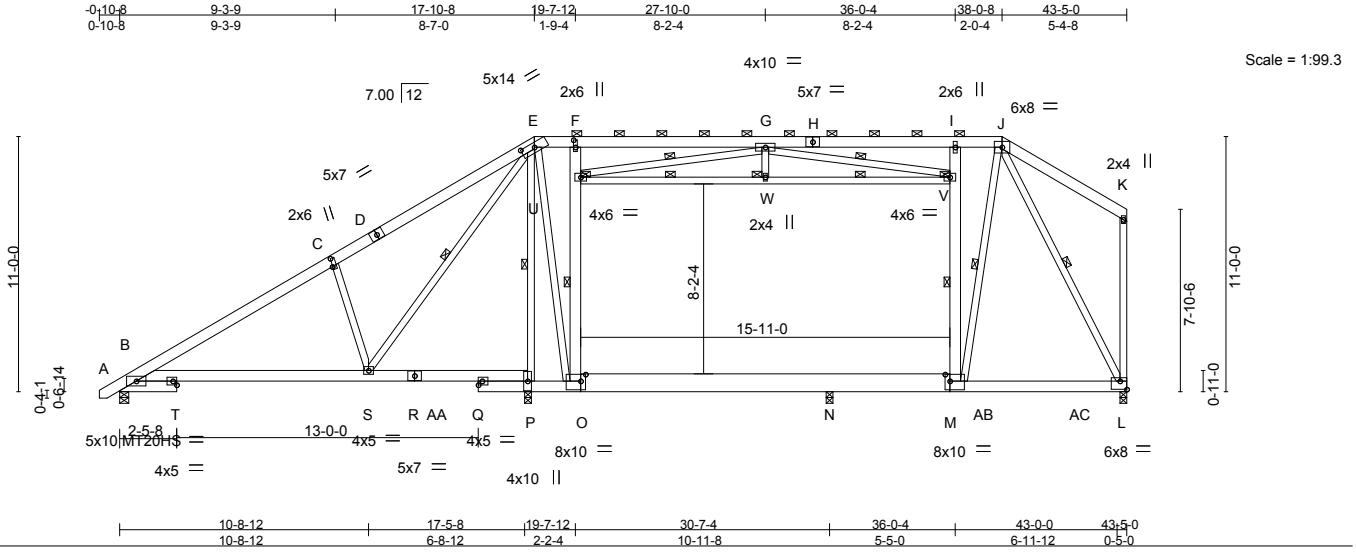



Plate Offsets (X,Y)-- [C:0-4-6,0-0-4], [E:0-7-0,0-2-5], [F:0-3-12,0-1-0], [L:Edge,0-4-4], [M:0-2-8,0-3-8], [O:0-2-8,0-3-8]

| 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) | -0.09 | S-X | >999 | 360 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.62 | Vert(TL) | -0.31 | S-X | >686 | 240 | MT20HS | 187/143 |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.85 | Horz(TL) | 0.05 | L | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2009/TPI2007 | (Matrix-S) | | Wind(LL) | 0.17 | S-X | >999 | 240 | Weight: 442 lb | FT = 20% |

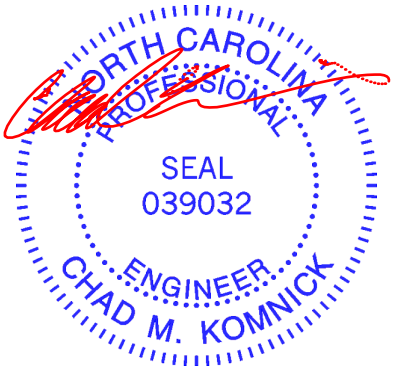
**LUMBER-**
TOP CHORD 2x6 SP No.2
BOT CHORD 2x6 SP No.2 *Except*
M-O: 2x10 SP No.1
WEBS 2x4 SP No.3 *Except*
F-O,I-M: 2x6 SP No.2, U-V,K-L: 2x4 SP No.2

**BRACING-**
TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): E-J.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt O-U, U-W, V-W, M-V, J-M, G-U, G-V, J-L, E-S, E-P
JOINTS 1 Brace at Jt(s): U, V, W

**REACTIONS.** All bearings 0-3-8 except (jt=length) B=0-4-11.
(lb) - Max Horz B=558(LC 8)
Max Uplift All uplift 100 lb or less at joint(s) except B=-300(LC 8), L=-493(LC 6), P=-602(LC 7)
Max Grav All reactions 250 lb or less at joint(s) except B=1006(LC 1), L=1184(LC 17), P=1596(LC 16), N=1240(LC 12)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-C=-1409/830, C-D=-1306/1035, D-E=-1161/1083, E-F=-641/625, F-G=-576/554, G-H=-636/618, H-I=-636/618, I-J=-648/635
BOT CHORD B-T=-1092/1159, S-T=-1092/1159, R-S=-311/466, R-AA=-311/466, Q-AA=-311/466, P-Q=-311/448, O-P=-321/477, N-O=-368/642, M-N=-370/648, M-AB=-282/472, AB-AC=-282/472, L-AC=-282/472
WEBS C-S=-550/852, O-U=-898/744, F-U=-508/542, U-W=-1244/1292, V-W=-1244/1292, M-V=-846/770, I-V=-469/530, J-M=-477/863, G-U=-1385/1332, G-V=-1311/1266, J-L=-1031/616, E-S=-928/929, E-P=-1209/742, E-O=-402/975

**NOTES-** (14)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Exterior(2) zone; end vertical left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
4) Provide adequate drainage to prevent water ponding.
5) All plates are MT20 plates unless otherwise indicated.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
8) Ceiling dead load (5.0 psf) on member(s). U-W, V-W; Wall dead load (5.0psf) on member(s).O-U, M-V
9) Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. N-O, M-N
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 300 lb uplift at joint B, 493 lb uplift at joint L and 602 lb uplift at joint P.
11) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and ½" gypsum sheetrock be applied directly to the bottom chord.
12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
13) Attic room checked for L/360 deflection.
14) 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.




March 30,2017



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

| Job | Truss | Truss Type | Qty | Ply | H&H-NC/Calabash/ |
|---|---|---|---|---|---|
| 763062_NC_OFA | A28 | ATTIC | 1 | 1 | I29418261 |
| | | | | | Job Reference (optional) |

Builders FirstSource, Sumter, SC — 7.640 s Sep 29 2015 MiTek Industries, Inc. Wed Mar 29 15:30:07 2017 Page 1
ID:jTgj18SwfyF8hyT9h0Yt9kzZiYQ-aS3MbJW__P8T4d5v5Hpt_T3KKbNfNodW2szFCDzW1Wk

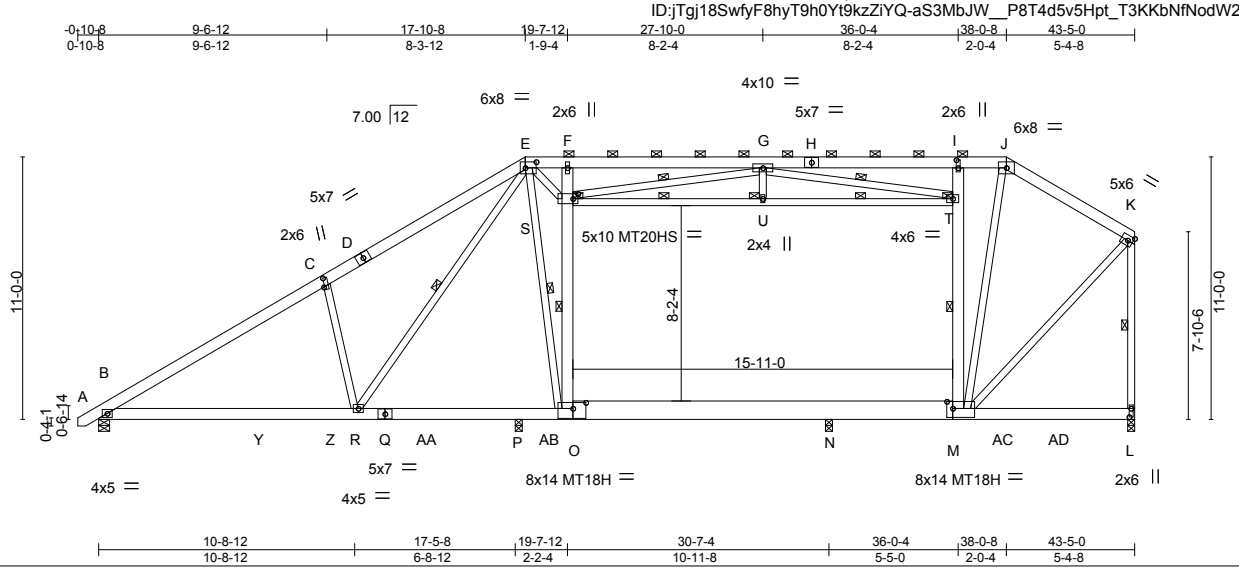



Plate Offsets (X,Y)-- [C:0-4-9,0-0-8], [E:0-5-8,0-3-0], [I:0-4-0,0-1-0], [L:0-4-4,0-1-0], [M:0-3-0,0-3-8], [O:0-6-8,0-3-0], [S:0-2-8,0-2-8]

| 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 | 0.52 | Vert(LL) | -0.15 | N-O | >999 | 360 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.97 | Vert(TL) | -0.36 | R-X | >582 | 240 | MT20HS | 187/143 |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.93 | Horz(TL) | 0.03 | L | n/a | n/a | MT18H | 244/190 |
| BCDL | 10.0 | Code | IRC2009/TPI2007 | (Matrix-S) | | Wind(LL) | 0.17 | R-X | >999 | 240 | Weight: 420 lb | FT = 20% |

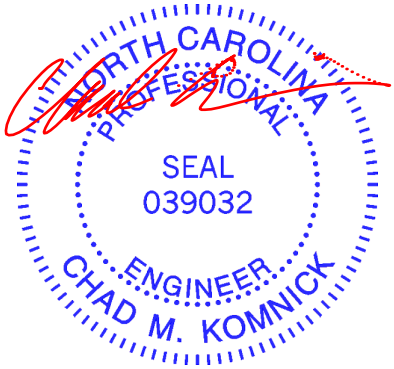
**LUMBER-**
TOP CHORD 2x6 SP No.2
BOT CHORD 2x6 SP No.2 *Except*
M-O: 2x10 SP No.1, O-Q: 2x6 SP No.1
WEBS 2x4 SP No.3 *Except*
E-R,S-T: 2x4 SP No.2, F-O,I-M: 2x6 SP No.2

**BRACING-**
TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): E-J.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt E-R, E-O, O-S, S-U, T-U, M-T, G-S, G-T, K-L
JOINTS 1 Brace at Jt(s): S, T, U

**REACTIONS.** All bearings 0-3-8 except (jt=length) B=0-5-8.
(lb) - Max Horz B=554(LC 8)
Max Uplift All uplift 100 lb or less at joint(s) except B=-314(LC 8), L=-495(LC 6), P=-486(LC 7)
Max Grav All reactions 250 lb or less at joint(s) except B=1117(LC 1), L=1175(LC 17), P=1330(LC 16), N=1405(LC 12)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-C=-1459/807, C-D=-1399/1072, D-E=-1278/1119, E-F=-841/499, F-G=-861/518, G-H=-602/572, H-I=-602/572, I-J=-678/643, J-K=-769/561, K-L=-1078/788
BOT CHORD B-Y=-1058/1204, Y-Z=-1058/1204, R-Z=-1058/1204, Q-R=-442/718, Q-AA=-442/718, P-AA=-442/718, P-AB=-442/718, O-AB=-442/718, N-O=-385/682, M-N=-386/687
WEBS C-R=-546/861, E-R=-764/687, E-O=-657/363, O-S=-859/883, F-S=-502/521, S-U=-1183/1297, T-U=-1183/1297, M-T=-947/832, I-T=-555/594, J-M=-300/418, G-S=-1269/1322, G-T=-1385/1267, K-M=-490/846, E-S=-5/290

**NOTES-** (14)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Exterior(2) zone; end vertical left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
4) Provide adequate drainage to prevent water ponding.
5) All plates are MT20 plates unless otherwise indicated.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
8) Ceiling dead load (5.0 psf) on member(s). S-U, T-U; Wall dead load (5.0psf) on member(s).O-S, M-T
9) Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. N-O, M-N
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 314 lb uplift at joint B, 495 lb uplift at joint L and 486 lb uplift at joint P.
11) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and ½" gypsum sheetrock be applied directly to the bottom chord.
12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
13) Attic room checked for L/360 deflection.
14) 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.




March 30,2017



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

| Job | Truss | Truss Type | Qty | Ply | H&H-NC/Calabash/ |
|---|---|---|---|---|---|
| 763062_NC_OFA | B01 | GABLE | 6 | 1 | I29418262 |
| | | | | | Job Reference (optional) |

Builders FirstSource, Sumter, SC — 7.640 s Sep 29 2015 MiTek Industries, Inc. Wed Mar 29 15:30:08 2017 Page 1
ID:jTgj18SwfyF8hyT9h0Yt9kzZiYQ-2eckofWcliGJing5e?K6Xgbcw?y56SgfHViokfzW1Wj

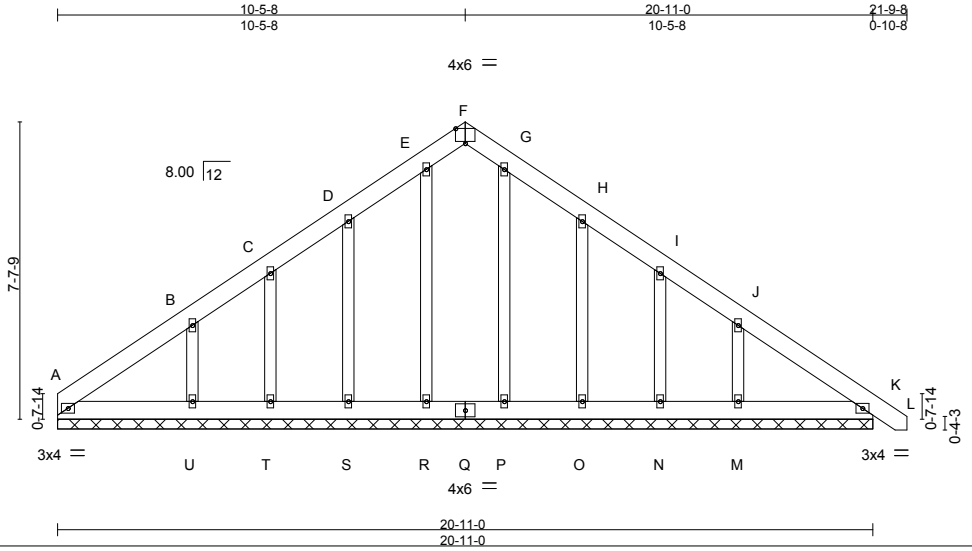



Plate Offsets (X,Y)-- [F:0-3-0,Edge]

| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.15 | TC | 0.08 | Vert(LL) | 0.00 | K | n/r | 120 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.06 | Vert(TL) | 0.00 | L | n/r | 120 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.11 | Horz(TL) | 0.01 | K | n/a | n/a | | |
| BCDL | 10.0 | Code IRC2009/TPI2007 | | (Matrix) | | | | | | | Weight: 159 lb | FT = 20% |

**LUMBER-**
TOP CHORD 2x6 SP No.2
BOT CHORD 2x6 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 20-11-0.
(lb) - Max Horz A=-480(LC 6)
Max Uplift All uplift 100 lb or less at joint(s) K except A=-138(LC 6), R=-102(LC 8), S=-224(LC 8), T=-153(LC 8), U=-365(LC 8), P=-101(LC 9), O=-223(LC 9), N=-160(LC 9), M=-342(LC 9)
Max Grav All reactions 250 lb or less at joint(s) A, K, R, S, T, P, O, N except F=385(LC 9), U=278(LC 13), M=269(LC 14)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD A-B=-385/328, B-C=-220/293, C-D=-143/300, D-E=-42/404, E-F=-13/450, F-G=-12/449, G-H=-39/380
BOT CHORD A-U=-85/252, T-U=-85/252, S-T=-85/252, R-S=-85/252, Q-R=-85/252, P-Q=-85/252, O-P=-85/252, N-O=-85/252, M-N=-85/252, K-M=-85/252
WEBS B-U=-197/380, J-M=-189/356

**NOTES-** (12)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
5) All plates are 2x4 MT20 unless otherwise indicated.
6) Gable requires continuous bottom chord bearing.
7) Gable studs spaced at 2-0-0 oc.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) K except (jt=lb) A=138, R=102, S=224, T=153, U=365, P=101, O=223, N=160, M=342.
11) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
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.


March 30,2017



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

| Job | Truss | Truss Type | Qty | Ply | H&H-NC/Calabash/ |
|---|---|---|---|---|---|
| 763062_NC_OFA | B02 | COMMON | 24 | 1 | I29418263 |
| | | | | | Job Reference (optional) |

Builders FirstSource, Sumter, SC — 7.640 s Sep 29 2015 MiTek Industries, Inc. Wed Mar 29 15:30:08 2017 Page 1
ID:jTgj18SwfyF8hyT9h0Yt9kzZiYQ-2eckofWcliGJing5e?K6XgbVD?pp6Q_fHViokfzW1Wj

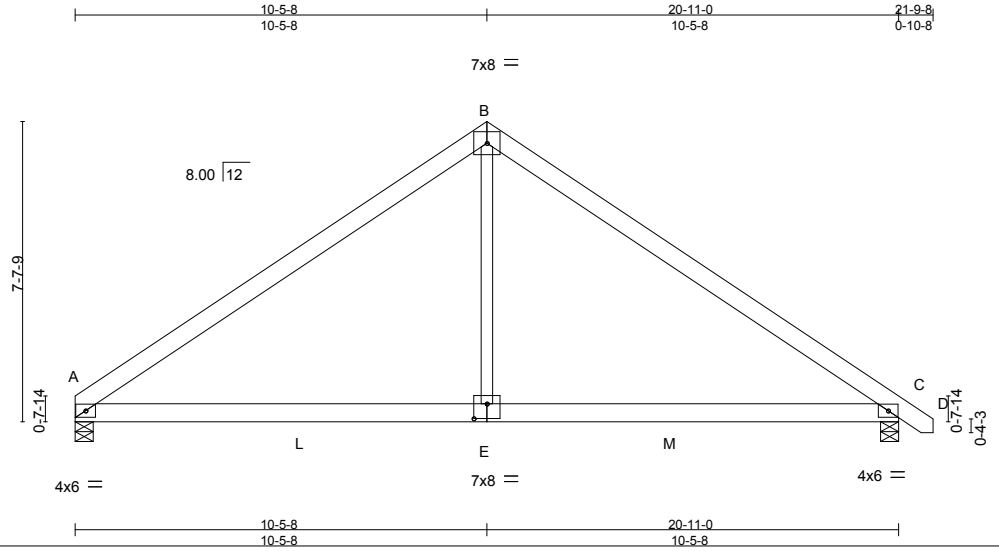



Plate Offsets (X,Y)-- [E:0-4-0,0-4-8]

| 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 | 0.57 | Vert(LL) | -0.09 | E-H | >999 | 360 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.59 | Vert(TL) | -0.21 | E-H | >999 | 240 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.22 | Horz(TL) | 0.02 | C | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2009/TPI2007 | (Matrix-S) | | Wind(LL) | 0.16 | E-H | >999 | 240 | Weight: 121 lb | FT = 20% |

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

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

**REACTIONS.** (lb/size) A=836/0-5-8, C=881/0-5-8
Max Horz A=-382(LC 6)
Max Uplift A=-297(LC 8), C=-358(LC 9)
Max Grav A=872(LC 2), C=909(LC 2)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD A-B=-1081/733, B-C=-1081/733
BOT CHORD A-L=-266/823, E-L=-266/823, E-M=-266/823, C-M=-266/823
WEBS B-E=-27/572

**NOTES-** (8)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Exterior(2) zone; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) A=297, C=358.
7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and ½" gypsum sheetrock be applied directly to the bottom chord.
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.


March 30,2017



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

| Job | Truss | Truss Type | Qty | Ply | H&H-NC/Calabash/ |
|---|---|---|---|---|---|
| 763062_NC_OFA | B03 | COMMON GIRDER | 8 | 3 | I29418264 |
| | | | | | Job Reference (optional) |

Builders FirstSource, Sumter, SC — 7.640 e Apr 22 2016 MiTek Industries, Inc. Wed Mar 29 17:51:59 2017 Page 1

ID:jTgj18SwfyF8hyT9h0Yt9kzZiYQ-YeWEHMn8DLBQYI2tm0AndoVque?1GOwWZ3rAdWzW0K_

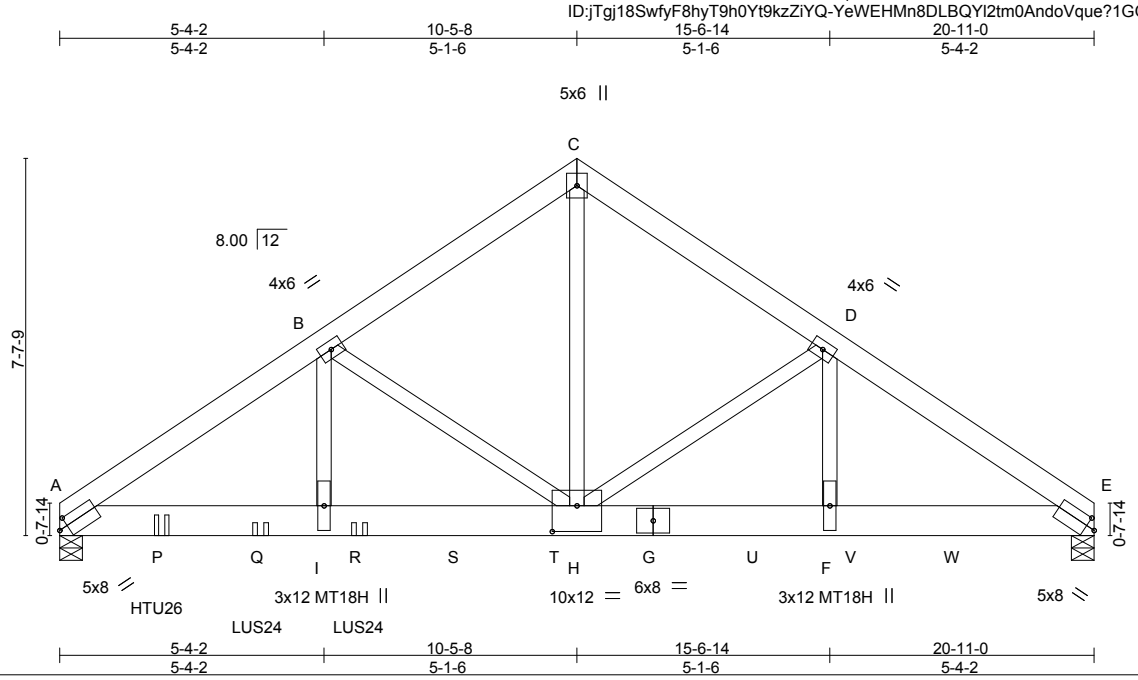



Plate Offsets (X,Y)-- [A:0-2-2,0-2-3], [E:0-2-2,0-2-3], [H:0-6-0,0-6-4]

| 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 | 0.25 | Vert(LL) | -0.08 | F-H | >999 | 360 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.38 | Vert(TL) | -0.17 | F-H | >999 | 240 | MT18H | 244/190 |
| BCLL | 0.0 * | Rep Stress Incr | NO | WB | 0.66 | Horz(TL) | 0.04 | E | n/a | n/a | | |
| BCDL | 10.0 | Code IRC2009/TPI2007 | | (Matrix-M) | | Wind(LL) | 0.10 | F-H | >999 | 240 | Weight: 482 lb | FT = 20% |

**LUMBER-**
TOP CHORD 2x6 SP No.2
BOT CHORD 2x8 SP DSS
WEBS 2x4 SP No.2

**BRACING-**
TOP CHORD Sheathed or 6-0-0 oc purlins. [PSA]
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** (lb/size) A=5760/0-5-8 (min. 0-2-5), E=7988/0-5-8 (min. 0-3-10)
Max Horz A=-365(LC 4)
Max Uplift A=-2873(LC 6), E=-3605(LC 7)
Max Grav A=5862(LC 2), E=9161(LC 2)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD A-B=-9213/4314, B-C=-7624/3257, C-D=-7629/3259, D-E=-11708/4674
BOT CHORD A-P=-3614/7588, P-Q=-3614/7588, I-Q=-3614/7588, I-R=-3614/7588, R-S=-3614/7588, S-T=-3614/7588, H-T=-3614/7588, G-H=-3775/9716, G-U=-3775/9716, F-U=-3775/9716, F-V=-3775/9716, V-W=-3775/9716, E-W=-3775/9716
WEBS C-H=-3362/8058, D-H=-4173/1740, D-F=-1597/4454, B-H=-1856/1360, B-I=-1160/1889

**NOTES-** (15)
1) 3-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: 2x8 - 2 rows staggered at 0-4-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise); end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
5) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
6) All plates are MT20 plates unless otherwise indicated.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 2873 lb uplift at joint A and 3605 lb uplift at joint E.
10) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
11) Use Simpson Strong-Tie LUS24 (4-10d Girder, 2-10d Truss, Single Ply Girder) or equivalent spaced at 2-0-0 oc max. starting at 4-0-12 from the left end to 6-0-12 to connect truss(es) A13 (1 ply 2x10 SP) to back face of bottom chord.
12) Fill all nail holes where hanger is in contact with lumber.
13) Use Simpson Strong-Tie HTU26 (20-10d Girder, 11-10dx1 1/2 Truss, Single Ply Girder) or equivalent at 2-0-12 from the left end to connect truss(es) to back face of bottom chord.


March 30,2017

Continued on page 2



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

**NOTES-** (15)

14) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1720 lb down and 488 lb up at 10-0-12, 1746 lb down and 654 lb up at 12-0-12, 1746 lb down and 654 lb up at 14-0-12, 1746 lb down and 654 lb up at 16-0-12, 1746 lb down and 654 lb up at 18-0-12, and 1749 lb down and 653 lb up at 20-0-12, and 1676 lb down and 764 lb up at 8-0-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

15) This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

**LOAD CASE(S)** Standard

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

Uniform Loads (plf)

Vert: A-C=-60, C-E=-60, J-M=-20

Concentrated Loads (lb)

Vert: G=-1393 O=-1396 P=-585(B) Q=-585(B) R=-585(B) S=-1676(B) T=-1676 U=-1393 V=-1393 W=-1393

| Job | Truss | Truss Type | Qty | Ply | H&H-NC/Calabash/ |
|---|---|---|---|---|---|
| 763062_NC_OFA | B04 | GABLE | 2 | 1 | I29418265 |
| | | | | | Job Reference (optional) |

Builders FirstSource, Sumter, SC — 7.640 s Sep 29 2015 MiTek Industries, Inc. Wed Mar 29 15:30:10 2017 Page 1
ID:jTgj18SwfyF8hyT9h0Yt9kzZiYQ-_1kVDLYsHKW1y5qUmQMac5hwKodzaLCykpBvpYzW1Wh

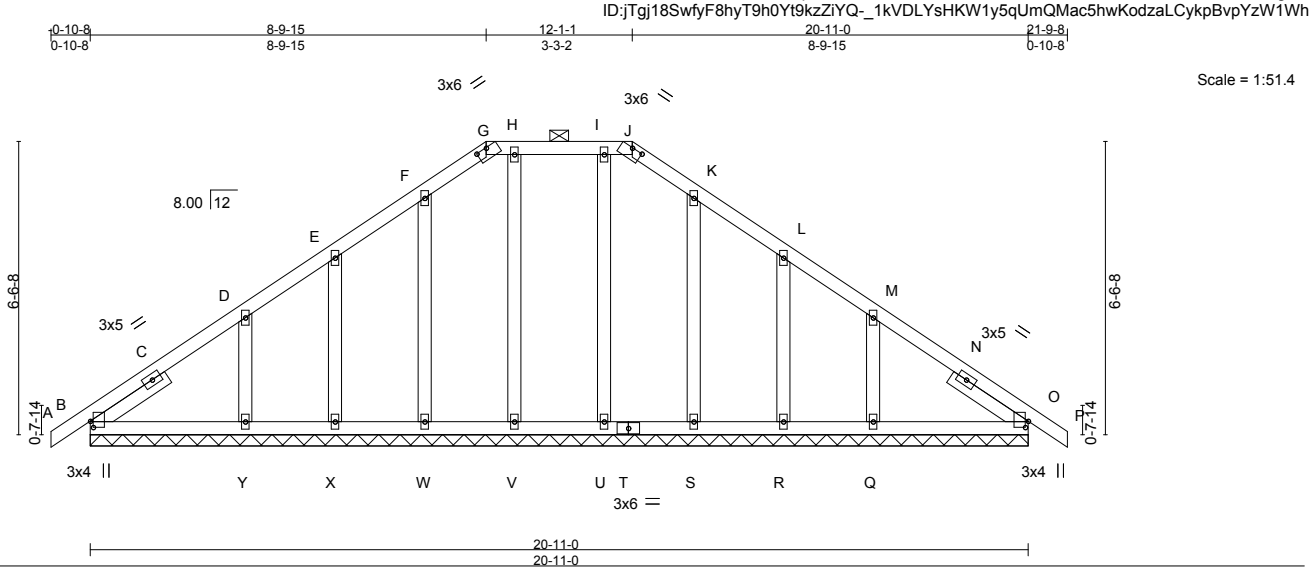



Plate Offsets (X,Y)-- [B:0-1-11,0-0-13], [G:0-3-0,0-0-2], [J:0-3-0,0-0-2], [O:0-1-11,0-0-13]

| 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 | 0.21 | Vert(LL) | 0.00 | P | n/r | 120 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.10 | Vert(TL) | 0.00 | P | n/r | 120 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.11 | Horz(TL) | 0.01 | O | n/a | n/a | | |
| BCDL | 10.0 | Code IRC2009/TPI2007 | | (Matrix) | | | | | | | Weight: 128 lb | FT = 20% |

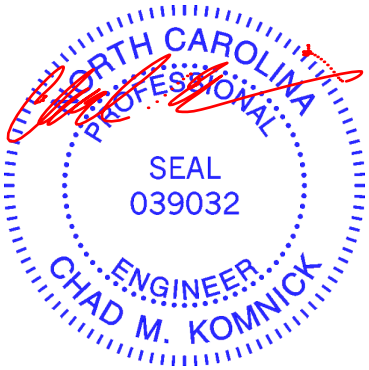
**LUMBER-**
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.3
SLIDER Left 2x4 SP No.3 2-0-0, Right 2x4 SP No.3 2-0-0

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

**REACTIONS.** All bearings 20-11-0.
(lb) - Max Horz B=-411(LC 6)
Max Uplift All uplift 100 lb or less at joint(s) U except B=-133(LC 6), V=-134(LC 7), W=-147(LC 8), X=-168(LC 8), Y=-358(LC 8), S=-135(LC 9), R=-174(LC 9), Q=-349(LC 9), O=-118(LC 9)
Max Grav All reactions 250 lb or less at joint(s) B, V, W, X, U, S, R, O except Y=256(LC 13), Q=256(LC 14)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-C=-306/252, C-D=-293/264, E-F=-96/299, F-G=-92/364, G-H=-53/351, H-I=-53/351, I-J=-53/351, J-K=-92/364, K-L=-96/275
WEBS D-Y=-183/376, M-Q=-183/368

**NOTES-** (14)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
5) Provide adequate drainage to prevent water ponding.
6) All plates are 2x4 MT20 unless otherwise indicated.
7) Gable requires continuous bottom chord bearing.
8) Gable studs spaced at 2-0-0 oc.
9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
10) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) U except (jt=lb) B=133, V=134, W=147, X=168, Y=358, S=135, R=174, Q=349, O=118.
12) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
14) 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.




March 30,2017



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

| Job | Truss | Truss Type | Qty | Ply | H&H-NC/Calabash/ |
|---|---|---|---|---|---|
| 763062_NC_OFA | C01 | GABLE | 6 | 1 | I29418266 |
| | | | | | Job Reference (optional) |

Builders FirstSource, Sumter, SC — 7.640 s Sep 29 2015 MiTek Industries, Inc. Wed Mar 29 15:30:10 2017 Page 1
ID:jTgj18SwfyF8hyT9h0Yt9kzZiYQ-_1kVDLYsHKW1y5qUmQMac5hnMoTraHJykpBvpYzW1Wh

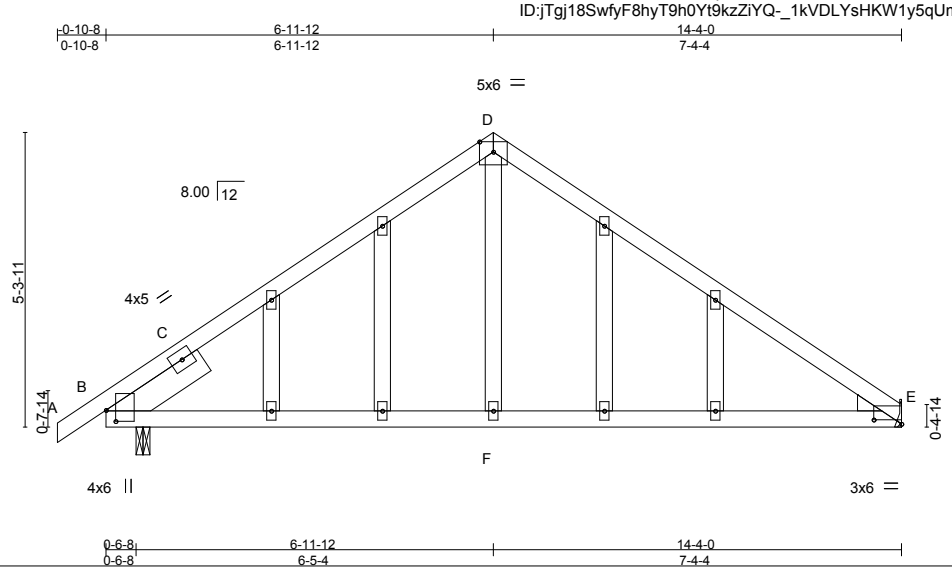



Plate Offsets (X,Y)-- [B:0-2-7,0-2-1], [E:0-6-0,0-0-15]

| 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 | 0.79 | Vert(LL) | -0.05 | F-Q | >999 | 360 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.75 | Vert(TL) | -0.14 | F-Q | >999 | 240 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.36 | Horz(TL) | -0.03 | B | n/a | n/a | | |
| BCDL | 10.0 | Code IRC2009/TPI2007 | | (Matrix-S) | | Wind(LL) | 0.24 | F-Q | >730 | 240 | Weight: 78 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
WEDGE
Right: 2x4 SP No.3
SLIDER Left 2x6 SP No.2 1-11-12

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

**REACTIONS.** (lb/size) E=565/Mechanical, B=634/0-3-0
Max Horz B=332(LC 7)
Max Uplift E=-654(LC 8), B=-826(LC 8)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-C=-271/265, C-D=-570/1162, D-E=-600/1135
BOT CHORD B-F=-715/400, E-F=-715/400
WEBS D-F=-757/281

**NOTES-**
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) zone; 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
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
5) All plates are 2x4 MT20 unless otherwise indicated.
6) Gable studs spaced at 2-0-0 oc.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
9) Refer to girder(s) for truss to truss connections.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) E=654, B=826.
11) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and ½" gypsum sheetrock be applied directly to the bottom chord.


March 30,2017



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

| Job | Truss | Truss Type | Qty | Ply | H&H-NC/Calabash/ I29418267 |
|---|---|---|---|---|---|
| 763062_NC_OFA | C02 | Common | 18 | 1 | Job Reference (optional) |

Builders FirstSource, Sumter, SC — 7.640 s Sep 29 2015 MiTek Industries, Inc. Wed Mar 29 15:30:10 2017 Page 1
ID:jTgj18SwfyF8hyT9h0Yt9kzZiYQ-_1kVDLYsHKW1y5qUmQMac5hnMoTraHJykpBvpYzW1Wh

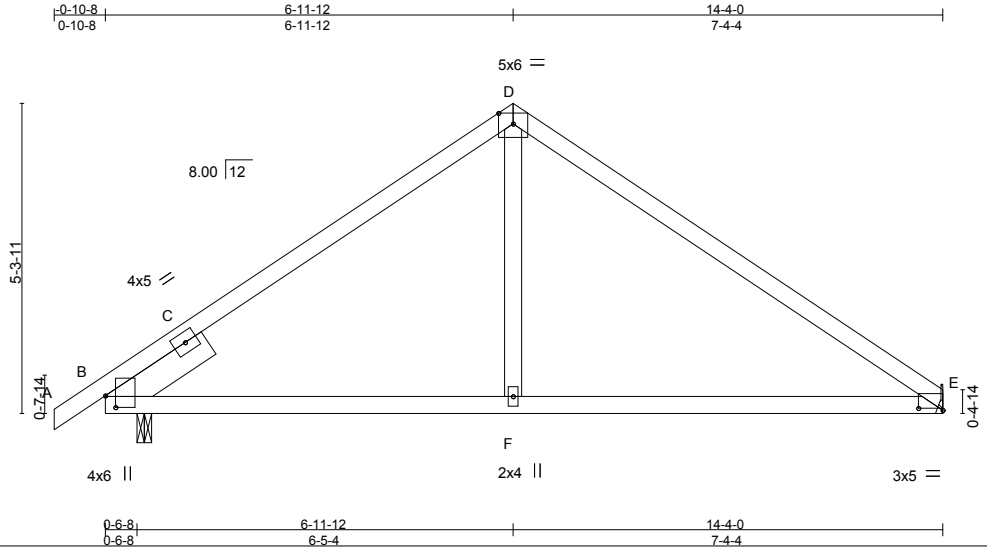



Plate Offsets (X,Y)-- [B:0-2-7,0-2-1], [E:0-5-0,0-0-7]

| 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 | 0.79 | Vert(LL) | -0.05 | F-I | >999 | 360 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.75 | Vert(TL) | -0.14 | F-I | >999 | 240 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.36 | Horz(TL) | -0.02 | B | n/a | n/a | | |
| BCDL | 10.0 | Code IRC2009/TPI2007 | | (Matrix-S) | | Wind(LL) | 0.24 | F-I | >730 | 240 | Weight: 61 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 1-11-12

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

**REACTIONS.** (lb/size) E=565/Mechanical, B=634/0-3-0
Max Horz B=265(LC 7)
Max Uplift E=-486(LC 8), B=-623(LC 8)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD C-D=-570/1162, D-E=-600/1135
BOT CHORD B-F=-715/400, E-F=-715/400
WEBS D-F=-757/281

**NOTES-**
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) 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
3) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) E=486, B=623.
8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and ½" gypsum sheetrock be applied directly to the bottom chord.


March 30,2017



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

| Job | Truss | Truss Type | Qty | Ply | H&H-NC/Calabash/ |
|---|---|---|---|---|---|
| 763062_NC_OFA | C03 | GABLE | 2 | 1 | I29418268 |
| | | | | | Job Reference (optional) |

Builders FirstSource, Sumter, SC — 7.640 s Sep 29 2015 MiTek Industries, Inc. Wed Mar 29 15:30:11 2017 Page 1
ID:jTgj18SwfyF8hyT9h0Yt9kzZiYQ-SDItRhZU2deuZFPgK7up9JD1KCrVJm96zTxSL_zW1Wg

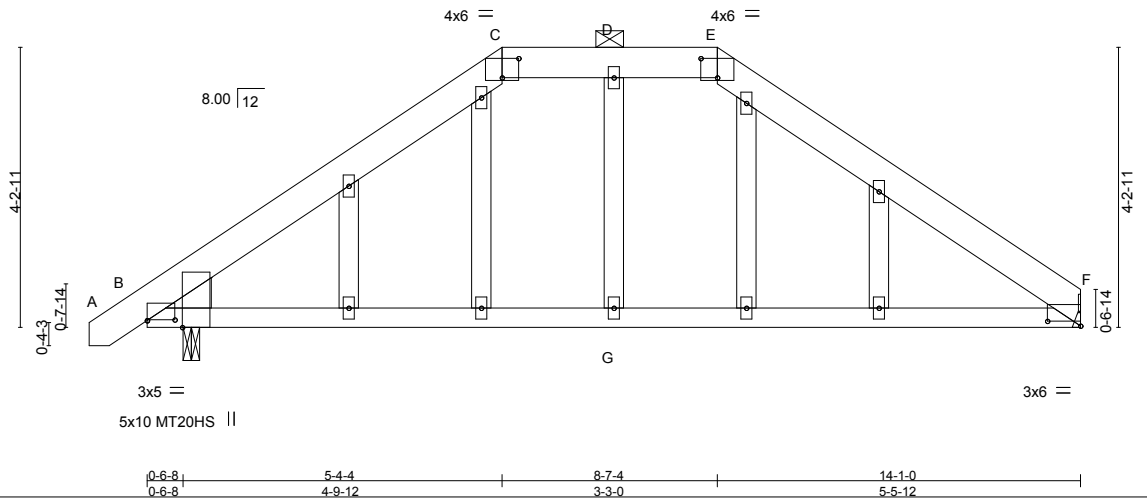



Plate Offsets (X,Y)-- [B:0-1-4,Edge], [B:0-5-0,0-0-2], [C:0-3-0,0-3-8], [E:0-3-0,0-3-8], [F:0-6-0,0-0-14]

| 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 | 0.45 | Vert(LL) | -0.04 | G-R | >999 | 360 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.59 | Vert(TL) | -0.11 | G-R | >999 | 240 | MT20HS | 187/143 |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.19 | Horz(TL) | -0.02 | F | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2009/TPI2007 | (Matrix-S) | | Wind(LL) | 0.19 | G-R | >887 | 240 | Weight: 85 lb | FT = 20% |

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

**BRACING-**
TOP CHORD Structural wood sheathing directly applied, except 2-0-0 oc purlins (6-0-0 max.): C-E.
BOT CHORD Rigid ceiling directly applied.

**REACTIONS.** (lb/size) F=538/Mechanical, B=632/0-3-0
Max Horz B=258(LC 7)
Max Uplift F=-666(LC 9), B=-802(LC 8)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-C=-634/1292, C-D=-462/1213, D-E=-462/1213, E-F=-615/1250
BOT CHORD B-G=-900/462, F-G=-900/462
WEBS D-G=-671/260

**NOTES-** (15)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) zone; cantilever left 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
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
5) Provide adequate drainage to prevent water ponding.
6) All plates are MT20 plates unless otherwise indicated.
7) All plates are 2x4 MT20 unless otherwise indicated.
8) Gable studs spaced at 2-0-0 oc.
9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
10) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
11) Refer to girder(s) for truss to truss connections.
12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) F=666, B=802.
13) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and ½" gypsum sheetrock be applied directly to the bottom chord.
14) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
15) This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.


March 30,2017



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

| Job | Truss | Truss Type | Qty | Ply | H&H-NC/Calabash/ I29418269 |
|---|---|---|---|---|---|
| 763062_NC_OFA | D01 | GABLE | 1 | 1 | Job Reference (optional) |

Builders FirstSource, Sumter, SC — 7.640 s Sep 29 2015 MiTek Industries, Inc. Wed Mar 29 15:30:11 2017 Page 1
ID:jTgj18SwfyF8hyT9h0Yt9kzZiYQ-SDItRhZU2deuZFPgK7up9JD0aCyPJnV6zTxSL_zW1Wg

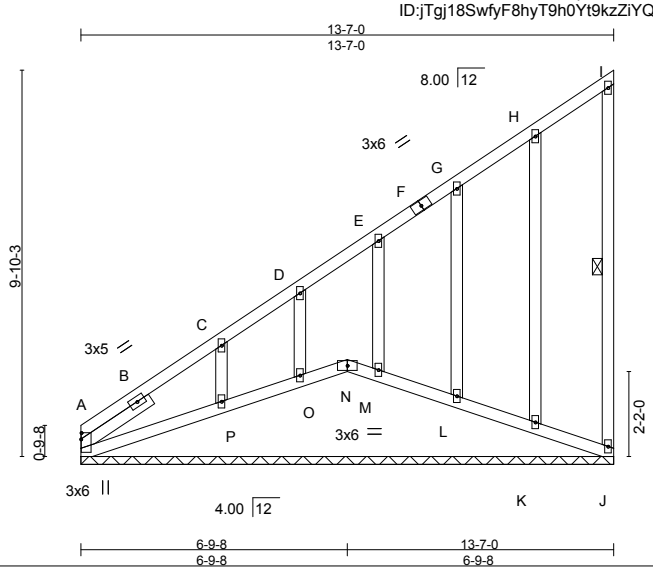



Plate Offsets (X,Y)-- [A:0-1-15,0-0-2]

| 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 | 0.57 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.15 | Vert(TL) | n/a | - | n/a | 999 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.17 | Horz(TL) | -0.00 | J | n/a | n/a | | |
| BCDL | 10.0 | Code IRC2009/TPI2007 | | (Matrix) | | | | | | | Weight: 93 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 |
| SLIDER | Left 2x4 SP No.3 2-2-6 |

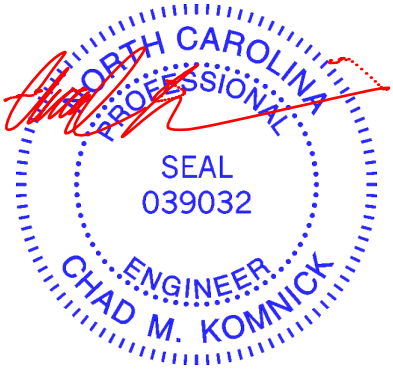
**BRACING-**

| | |
|---|---|
| TOP CHORD | Structural wood sheathing directly applied or 4-9-5 oc purlins, except end verticals. |
| BOT CHORD | Rigid ceiling directly applied or 6-0-0 oc bracing. |
| WEBS | 1 Row at midpt I-J |

**REACTIONS.** All bearings 13-7-0.
(lb) - Max Horz A=825(LC 8)
Max Uplift All uplift 100 lb or less at joint(s) J, A, N, O except K=-207(LC 8), L=-197(LC 8), M=-234(LC 8), P=-585(LC 8)
Max Grav All reactions 250 lb or less at joint(s) J, N, K, L, M, O except A=534(LC 8), P=279(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD A-B=-919/78, B-C=-901/90, C-D=-567/51, D-E=-494/49, E-F=-340/23, F-G=-328/35
WEBS E-M=-127/256, C-P=-202/578

**NOTES-** (12)
1) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
4) All plates are 2x4 MT20 unless otherwise indicated.
5) Gable requires continuous bottom chord bearing.
6) Gable studs spaced at 2-0-0 oc.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) J, A, N, O except (jt=lb) K=207, L=197, M=234, P=585.
10) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) N, K, L, M, O, P.
11) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
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.




March 30,2017



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

| Job | Truss | Truss Type | Qty | Ply | H&H-NC/Calabash/ |
|---|---|---|---|---|---|
| 763062_NC_OFA | D02 | Monopitch | 6 | 1 | I29418270 |
| | | | | | Job Reference (optional) |

Builders FirstSource, Sumter, SC

7.640 s Sep 29 2015 MiTek Industries, Inc. Wed Mar 29 15:30:12 2017 Page 1
ID:jTgj18SwfyF8hyT9h0Yt9kzZiYQ-wPsFe1Z7pxmlBO_strP2hWm9KcCp2BUFC7g0tRzW1Wf

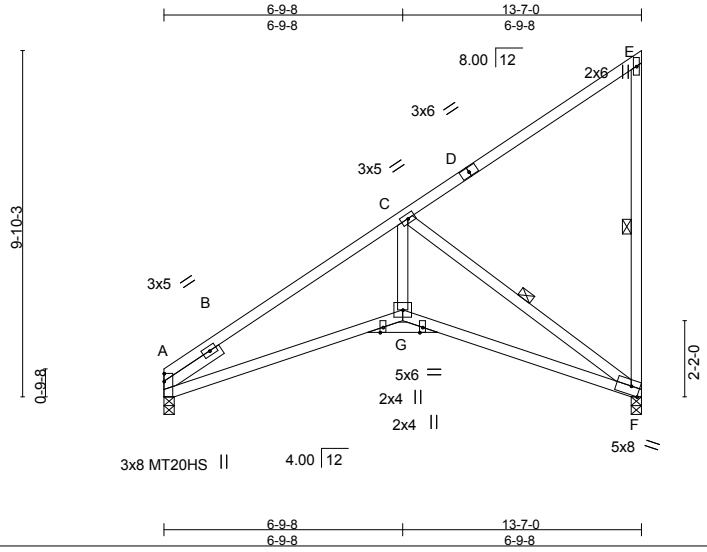



Plate Offsets (X,Y)-- [F:0-3-0,Edge]

| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.15 | TC | 0.69 | Vert(LL) | -0.07 | F-G | >999 | 360 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.46 | Vert(TL) | -0.19 | F-G | >831 | 240 | MT20HS | 187/143 |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.38 | Horz(TL) | 0.07 | F | n/a | n/a | | |
| BCDL | 10.0 | Code IRC2009/TPI2007 | | (Matrix-S) | | Wind(LL) | 0.07 | G-L | >999 | 240 | Weight: 81 lb | FT = 20% |

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

**BRACING-**
TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt E-F, C-F

**REACTIONS.** (lb/size) A=537/0-3-8, F=537/0-3-8
Max Horz A=542(LC 8)
Max Uplift A=-42(LC 8), F=-448(LC 8)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD A-B=-320/7, B-C=-798/566, E-F=-168/299
BOT CHORD A-G=-1107/793, F-G=-1098/796
WEBS C-G=-623/626, C-F=-907/1282

**NOTES-** (9)
1) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) 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) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
3) All plates are MT20 plates unless otherwise indicated.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) Bearing at joint(s) A, F considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) A except (jt=lb) F=448.
8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and ½" gypsum sheetrock be applied directly to the bottom chord.
9) This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.


March 30,2017



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

| Job | Truss | Truss Type | Qty | Ply | H&H-NC/Calabash/ |
|---|---|---|---|---|---|
| 763062_NC_OFA | FG01 | FLAT GIRDER | 8 | 2 | I29418271 |
| | | | | | Job Reference (optional) |

Builders FirstSource, Sumter, SC — 7.640 s Sep 29 2015 MiTek Industries, Inc. Wed Mar 29 15:30:12 2017 Page 1
ID:jTgj18SwfyF8hyT9h0Yt9kzZiYQ-wPsFe1Z7pxmlBO_strP2hWmEqc6s219FC7g0tRzW1Wf

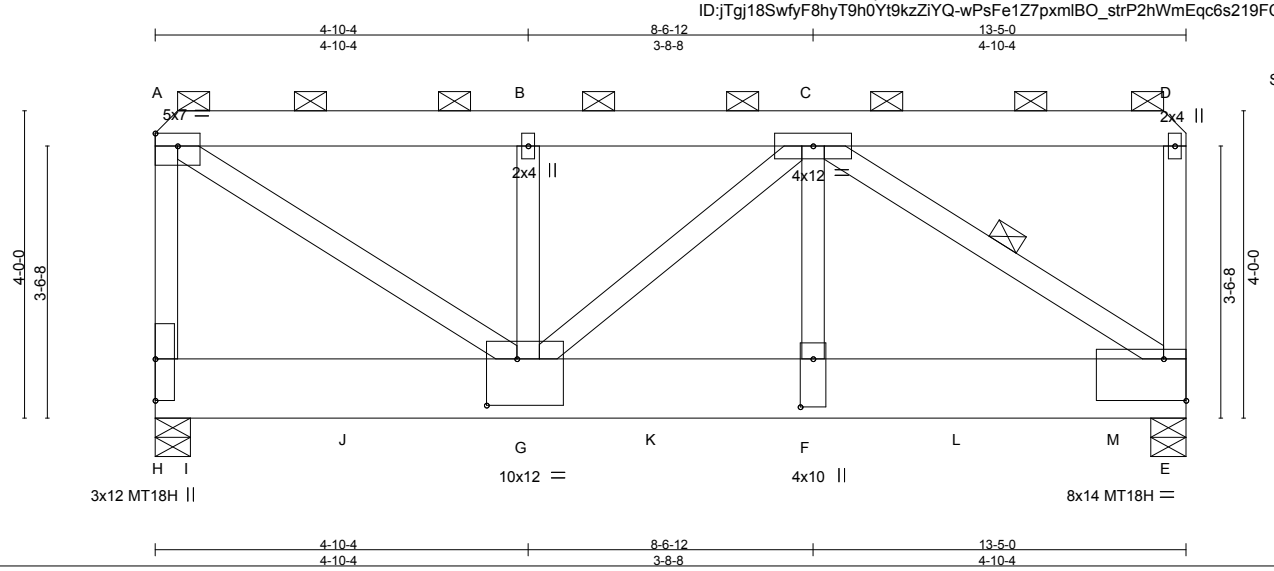



Plate Offsets (X,Y)-- [A:Edge,0-2-0], [E:Edge,0-6-8], [F:0-7-8,0-2-0], [G:0-4-12,0-7-4]

| 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 | 0.34 | Vert(LL) | -0.06 | F-G | >999 | 360 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.84 | Vert(TL) | -0.15 | F-G | >999 | 240 | MT18H | 244/190 |
| BCLL | 0.0 * | Rep Stress Incr | NO | WB | 0.98 | Horz(TL) | 0.02 | E | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2009/TPI2007 | (Matrix-M) | | Wind(LL) | 0.09 | F-G | >999 | 240 | Weight: 245 lb | FT = 20% |

**LUMBER-**
TOP CHORD 2x6 SP No.2
BOT CHORD 2x10 SP No.1
WEBS 2x4 SP No.2

**BRACING-**
TOP CHORD 2-0-0 oc purlins (6-0-0 max.): A-D, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt C-E

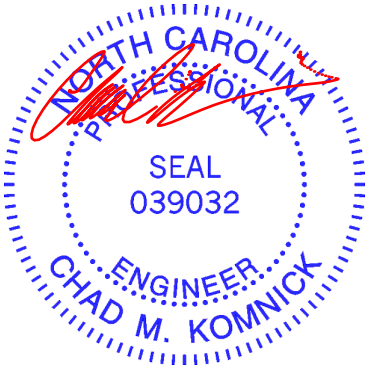
**REACTIONS.** (lb/size) H=6422/0-5-8, E=7001/0-5-8
Max Horz H=-219(LC 4)
Max Uplift H=-2955(LC 4), E=-3204(LC 5)
Max Grav H=7079(LC 2), E=7737(LC 2)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD A-H=-4828/2067, A-B=-6554/2773, B-C=-6554/2773
BOT CHORD G-K=-2885/6803, F-K=-2885/6803, F-L=-2885/6803, L-M=-2885/6803, E-M=-2885/6803
WEBS A-G=-3326/7972, C-G=-337/184, C-F=-1893/4880, C-E=-8264/3446

**NOTES-** (13)
1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 2x10 - 2 rows staggered at 0-5-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise); end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
4) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
5) Provide adequate drainage to prevent water ponding.
6) All plates are MT20 plates unless otherwise indicated.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) H=2955 , E=3204.
10) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
12) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1186 lb down and 363 lb up at 0-6-12, 397 lb down and 279 lb up at 0-6-12, 1181 lb down and 366 lb up at 2-6-12, 391 lb down and 283 lb up at 2-6-12, 1756 lb down and 584 lb up at 4-6-12, 391 lb down and 283 lb up at 4-6-12, 1756 lb down and 584 lb up at 6-6-12, 391 lb down and 283 lb up at 6-6-12, 1756 lb down and 584 lb up at 8-6-12, 391 lb down and 283 lb up at 8-6-12, 1756 lb down and 584 lb up at 10-6-12, 391 lb down and 283 lb up at 10-6-12, and 1759 lb down and 583 lb up at 12-6-12, and 394 lb down and 281 lb up at 12-6-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
13) This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

**LOAD CASE(S)** Standard

Continued on page 2




March 30,2017



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

**LOAD CASE(S)** Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: A-D=-60, E-H=-20
   Concentrated Loads (lb)
   Vert: G=-1910(F=-1554, B=-356) F=-1910(F=-1554, B=-356) I=-1414(F=-1052, B=-362) J=-1402(F=-1046, B=-356) K=-1910(F=-1554, B=-356) L=-1910(F=-1554, B=-356) M=-1916(F=-1557, B=-359)

| Job | Truss | Truss Type | Qty | Ply | H&H-NC/Calabash/ |
|---|---|---|---|---|---|
| 763062_NC_OFA | G01 | GABLE | 1 | 1 | I29418272 |
| | | | | | Job Reference (optional) |

Builders FirstSource, Sumter, SC

7.640 s Sep 29 2015 MiTek Industries, Inc. Wed Mar 29 15:30:13 2017 Page 1
ID:jTgj18SwfyF8hyT9h0Yt9kzZiYQ-PcQdsNalaFvcpYZ3RYwHEkITJ0fKniNPQnQZQtzW1We

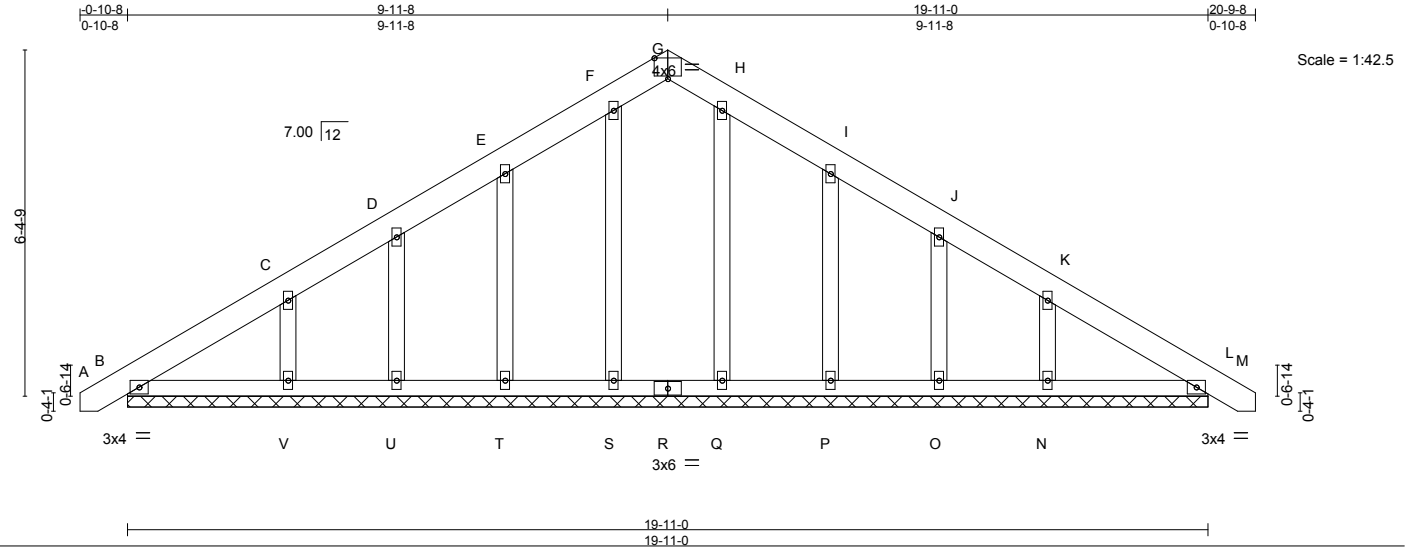



Plate Offsets (X,Y)-- [G:0-3-0,Edge]

| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.15 | TC | 0.10 | Vert(LL) | 0.00 | L | n/r | 120 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.06 | Vert(TL) | 0.00 | M | n/r | 120 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.08 | Horz(TL) | 0.01 | L | n/a | n/a | | |
| BCDL | 10.0 | Code IRC2009/TPI2007 | | (Matrix) | | | | | | | Weight: 128 lb | FT = 20% |

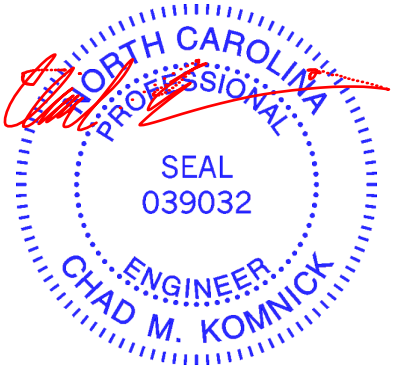
**LUMBER-**
TOP CHORD 2x6 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.3

**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 B=312(LC 7)
Max Uplift All uplift 100 lb or less at joint(s) B, S, L except T=-134(LC 8), U=-101(LC 8), V=-168(LC 8), P=-140(LC 9), O=-101(LC 9), N=-165(LC 9)
Max Grav All reactions 250 lb or less at joint(s) B, S, T, U, V, Q, P, O, N, L

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-C=-274/203, E-F=-54/279, F-G=-48/275, G-H=-48/275, H-I=-54/279
WEBS C-V=-171/285, K-N=-171/285

**NOTES-**
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Exterior(2) zone; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
5) All plates are 2x4 MT20 unless otherwise indicated.
6) Gable requires continuous bottom chord bearing.
7) Gable studs spaced at 2-0-0 oc.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) B, S, L except (jt=lb) T=134, U=101, V=168, P=140, O=101, N=165.
11) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.




March 30,2017




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

| Job | Truss | Truss Type | Qty | Ply | H&H-NC/Calabash/ |
|---|---|---|---|---|---|
| 763062_NC_OFA | G02 | COMMON | 5 | 1 | I29418273 |
| | | | | | Job Reference (optional) |

Builders FirstSource, Sumter, SC

7.640 s Sep 29 2015 MiTek Industries, Inc. Wed Mar 29 15:30:13 2017 Page 1
ID:jTgj18SwfyF8hyT9h0Yt9kzZiYQ-PcQdsNalaFvcpYZ3RYwHEkIME0SinhxPQnQZQtzW1We

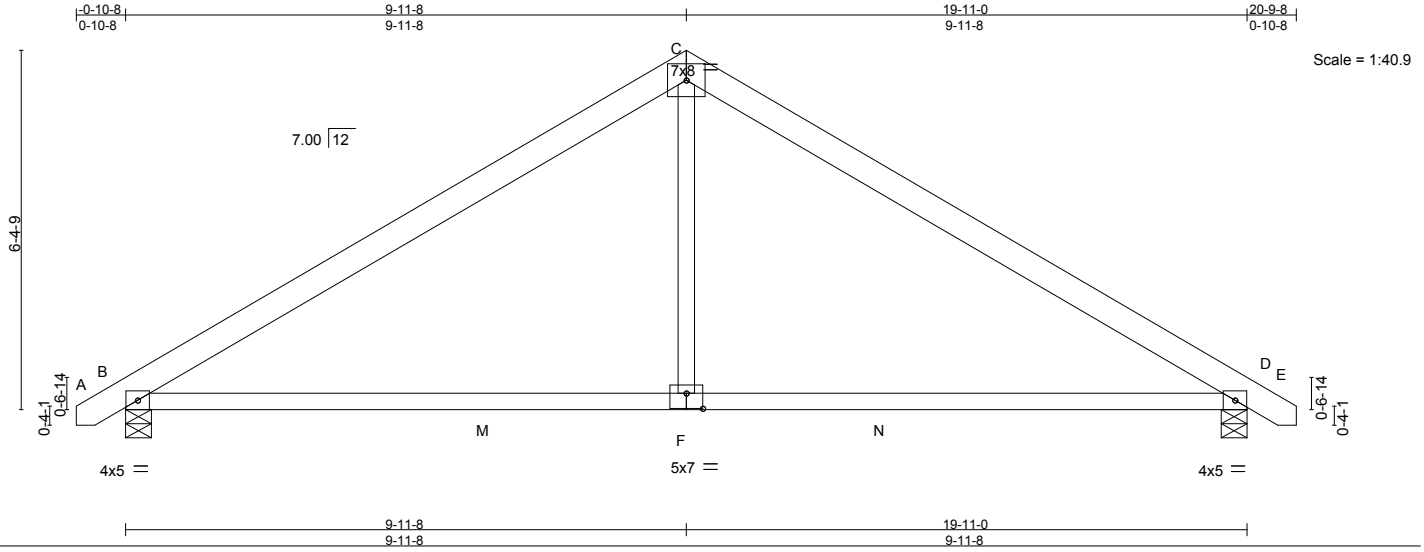



Plate Offsets (X,Y)-- [F:0-3-8,0-3-4]

| 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 | 0.56 | Vert(LL) | -0.13 | F-L | >999 | 360 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.87 | Vert(TL) | -0.36 | F-L | >657 | 240 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.18 | Horz(TL) | 0.02 | D | n/a | n/a | | |
| BCDL | 10.0 | Code IRC2009/TPI2007 | | (Matrix-S) | | Wind(LL) | 0.18 | F-I | >999 | 240 | Weight: 97 lb | FT = 20% |

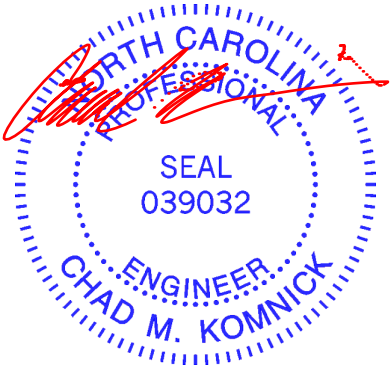
**LUMBER-**
TOP CHORD 2x6 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3

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

**REACTIONS.** (lb/size) B=839/0-5-8, D=839/0-5-8
Max Horz B=303(LC 7)
Max Uplift B=-348(LC 8), D=-348(LC 9)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-C=-1054/718, C-D=-1054/718
BOT CHORD B-M=-344/850, F-M=-344/850, F-N=-344/850, D-N=-344/850
WEBS C-F=0/462

**NOTES-**
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Exterior(2) zone; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) B=348, D=348.
7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and ½" gypsum sheetrock be applied directly to the bottom chord.




March 30,2017




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

| Job | Truss | Truss Type | Qty | Ply | H&H-NC/Calabash/ |
|---|---|---|---|---|---|
| 763062_NC_OFA | J01 | Monopitch Girder | 6 | 1 | I29418274 |
| | | | | | Job Reference (optional) |

Builders FirstSource, Sumter, SC — 7.640 s Sep 29 2015 MiTek Industries, Inc. Wed Mar 29 15:30:14 2017 Page 1

ID:jTgj18SwfyF8hyT9h0Yt9kzZiYQ-to_?3jbNLY1TQi8F?GRWmxrZNPqYW1PYfR97yJzW1Wd

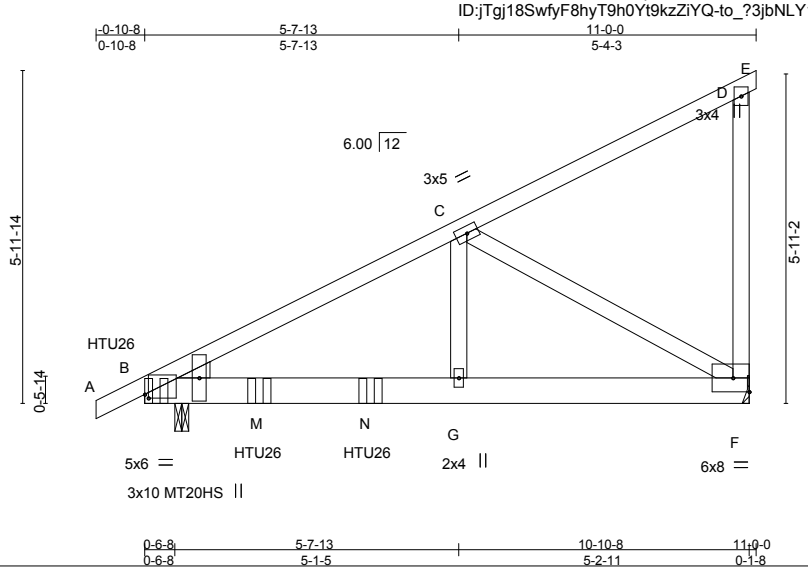



Plate Offsets (X,Y)-- [B:0-0-13,0-0-13]

| 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 | 0.40 | Vert(LL) | -0.04 | G-L | >999 | 360 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.76 | Vert(TL) | -0.09 | G-L | >999 | 240 | MT20HS | 187/143 |
| BCLL | 0.0 * | Rep Stress Incr | NO | WB | 0.61 | Horz(TL) | 0.01 | F | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2009/TPI2007 | (Matrix-M) | | Wind(LL) | 0.09 | G-L | >999 | 240 | Weight: 66 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.3

**BRACING-**

TOP CHORD Structural wood sheathing directly applied or 5-4-14 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 7-3-6 oc bracing.

**REACTIONS.** (lb/size) B=1915/0-3-0, F=647/Mechanical
Max Horz B=396(LC 5)
Max Uplift B=-1568(LC 6), F=-443(LC 6)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-C=-1061/729
BOT CHORD B-M=-747/922, M-N=-747/922, G-N=-747/922, F-G=-747/922
WEBS C-G=-465/633, C-F=-1054/876

**NOTES-**

1) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise); end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
2) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
3) All plates are MT20 plates unless otherwise indicated.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) B=1568, F=443.
8) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
9) Use Simpson Strong-Tie HTU26 (20-10d Girder, 11-10dx1 1/2 Truss, Single Ply Girder) or equivalent spaced at 2-0-12 oc max. starting at 0-0-0 from the left end to 4-0-12 to connect truss(es) to back face of bottom chord.
10) Fill all nail holes where hanger is in contact with lumber.
11) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

**LOAD CASE(S)** Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: A-D=-60, D-E=-20, F-H=-20
Concentrated Loads (lb)
Vert: H=-555(B) M=-545(B) N=-545(B)


March 30,2017




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

| Job | Truss | Truss Type | Qty | Ply | H&H-NC/Calabash/ |
|---|---|---|---|---|---|
| 763062_NC_OFA | J02 | Monopitch | 12 | 1 | I29418275 |
| | | | | | Job Reference (optional) |

Builders FirstSource, Sumter, SC

7.640 s Sep 29 2015 MiTek Industries, Inc. Wed Mar 29 15:30:14 2017 Page 1
ID:jTgj18SwfyF8hyT9h0Yt9kzZiYQ-to_?3jbNLY1TQi8F?GRWmxrVtPq8W6eYfR97yJzW1Wd

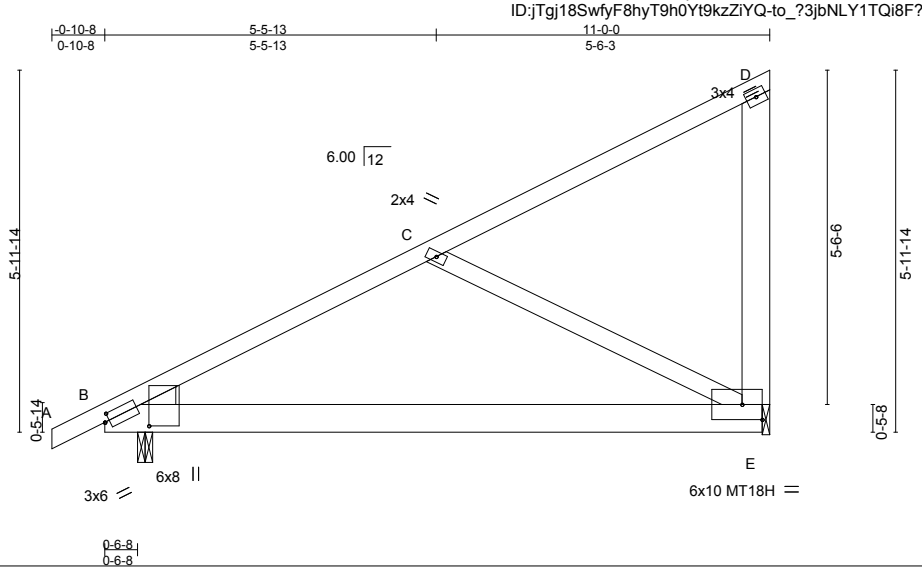



Plate Offsets (X,Y)-- [B:0-0-15,0-1-8], [B:0-0-11,0-8-12]

| 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 | 0.69 | Vert(LL) | -0.08 | E-J | >999 | 360 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.73 | Vert(TL) | -0.19 | E-J | >664 | 240 | MT18H | 244/190 |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.28 | Horz(TL) | -0.01 | B | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2009/TPI2007 | (Matrix-S) | | Wind(LL) | 0.33 | E-J | >394 | 240 | Weight: 67 lb | FT = 20% |

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

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

**REACTIONS.** (lb/size) B=512/0-3-0, E=402/0-1-8
Max Horz B=367(LC 8)
Max Uplift B=-468(LC 8), E=-507(LC 8)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-C=-444/543
BOT CHORD B-E=-963/373
WEBS C-E=-378/925

**NOTES-**
1) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Exterior(2) zone; cantilever left exposed ; end vertical left exposed; porch left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
3) All plates are MT20 plates unless otherwise indicated.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) Bearing at joint(s) E considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
7) Provide mechanical connection (by others) of truss to bearing plate at joint(s) E.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) B=468, E=507.
9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and ½" gypsum sheetrock be applied directly to the bottom chord.


March 30,2017



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

| Job | Truss | Truss Type | Qty | Ply | H&H-NC/Calabash/ |
|---|---|---|---|---|---|
| 763062_NC_OFA | J03 | JACK-CLOSED | 42 | 1 | I29418276 |
| | | | | | Job Reference (optional) |

Builders FirstSource, Sumter, SC — 7.640 s Sep 29 2015 MiTek Industries, Inc. Wed Mar 29 15:30:15 2017 Page 1
ID:jTgj18SwfyF8hyT9h0Yt9kzZiYQ-L_YOG3c?6s9K2sjRZzylJ9OdRpFaFdAhu5vgUlzW1Wc

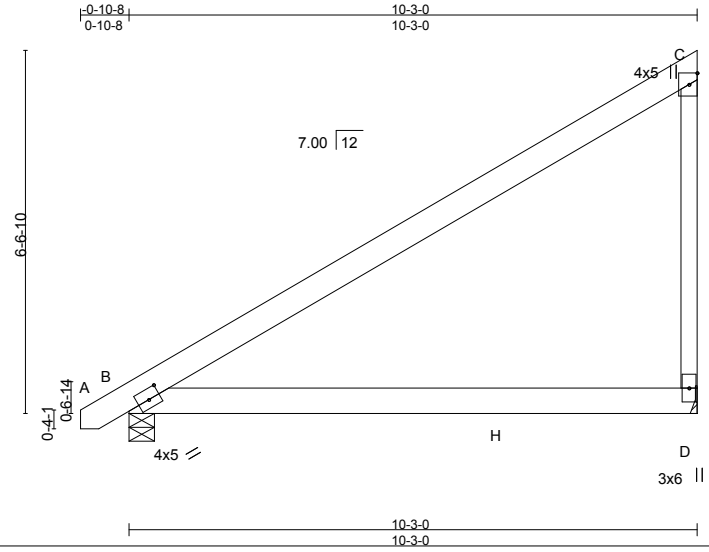



Plate Offsets (X,Y)-- [B:0-2-8,0-2-4]

| 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 | 0.89 | Vert(LL) | -0.08 | D-G | >999 | 360 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.39 | Vert(TL) | -0.23 | D-G | >524 | 240 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.00 | Horz(TL) | 0.01 | B | n/a | n/a | | |
| BCDL | 10.0 | Code IRC2009/TPI2007 | | (Matrix-S) | | Wind(LL) | 0.13 | D-G | >932 | 240 | Weight: 63 lb | FT = 20% |

**LUMBER-**
TOP CHORD 2x6 SP No.2
BOT CHORD 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) D=376/Mechanical, B=475/0-5-8
Max Horz B=396(LC 8)
Max Uplift D=-271(LC 8), B=-157(LC 8)
Max Grav D=412(LC 2), B=475(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD C-D=-253/435

**NOTES-** (8)
1) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Exterior(2) zone; end vertical left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
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) D=271, B=157.
7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and ½" gypsum sheetrock be applied directly to the bottom chord.
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.


March 30,2017

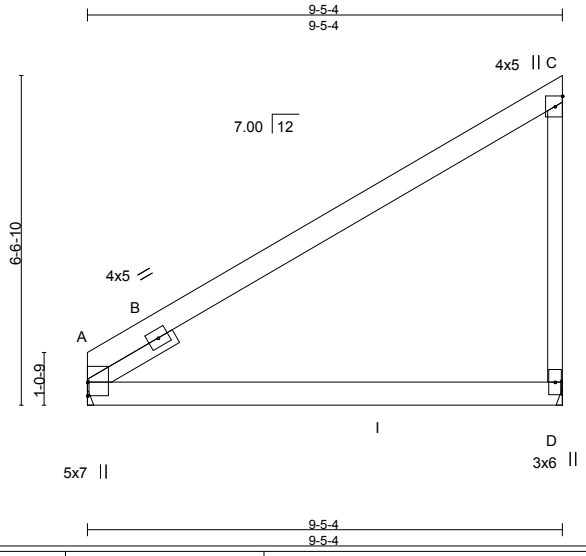


ENGINEERING BY
TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

| Job | Truss | Truss Type | Qty | Ply | H&H-NC/Calabash/ |
|---|---|---|---|---|---|
| 763062_NC_OFA | J03A | Jack-Closed | 14 | 1 | I29418277 |
| | | | | | Job Reference (optional) |

Builders FirstSource, Sumter, SC

7.640 s Sep 29 2015 MiTek Industries, Inc. Wed Mar 29 15:30:15 2017 Page 1
ID:jTgj18SwfyF8hyT9h0Yt9kzZiYQ-L_YOG3c?6s9K2sjRZzylJ9Oc0pECFdAhu5vgUlzW1Wc




Scale = 1:45.8

| 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 | 0.92 | Vert(LL) | -0.07 | D-G | >999 | 360 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.48 | Vert(TL) | -0.20 | D-G | >554 | 240 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.00 | Horz(TL) | -0.04 | A | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2009/TPI2007 | (Matrix-S) | | Wind(LL) | 0.14 | D-G | >799 | 240 | Weight: 59 lb | FT = 20% |

**LUMBER-**

| | |
|---|---|
| TOP CHORD | 2x6 SP No.2 |
| BOT CHORD | 2x6 SP No.2 |
| WEBS | 2x4 SP No.3 |
| SLIDER | Left 2x4 SP No.3 1-11-12 |

**BRACING-**

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

**REACTIONS.** (lb/size) A=372/Mechanical, D=372/Mechanical
Max Horz A=328(LC 8)
Max Uplift A=-54(LC 8), D=-285(LC 8)
Max Grav A=372(LC 1), D=408(LC 2)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD A-B=-503/0, C-D=-246/434

**NOTES-**

1) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) 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) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
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) A except (jt=lb) D=285.
7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and ½" gypsum sheetrock be applied directly to the bottom chord.


March 30,2017



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

| Job | Truss | Truss Type | Qty | Ply | H&H-NC/Calabash/ |
|---|---|---|---|---|---|
| 763062_NC_OFA | J04 | GABLE | 6 | 1 | I29418278 |
| | | | | | Job Reference (optional) |

Builders FirstSource, Sumter, SC — 7.640 s Sep 29 2015 MiTek Industries, Inc. Wed Mar 29 15:30:15 2017 Page 1
ID:jTgj18SwfyF8hyT9h0Yt9kzZiYQ-L_YOG3c?6s9K2sjRZzylJ9OetpJbFcFhu5vgUlzW1Wc

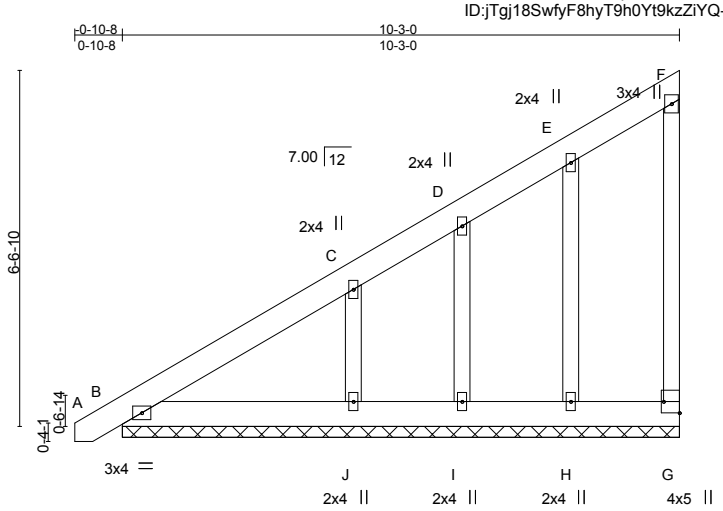



Plate Offsets (X,Y)-- [G:Edge,0-3-8]

| 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 | 0.80 | Vert(LL) | 0.00 | A | n/r | 120 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.14 | Vert(TL) | 0.00 | A | n/r | 120 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.12 | Horz(TL) | 0.00 | G | n/a | n/a | | |
| BCDL | 10.0 | Code IRC2009/TPI2007 | | (Matrix) | | | | | | | Weight: 77 lb | FT = 20% |

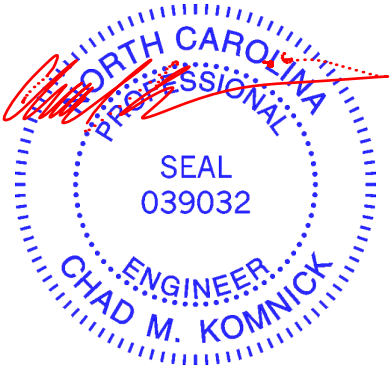
**LUMBER-**
TOP CHORD 2x6 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3
OTHERS 2x4 SP No.3

**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 10-3-0.
(lb) - Max Horz B=519(LC 7)
Max Uplift All uplift 100 lb or less at joint(s) G, B except H=-206(LC 8), I=-108(LC 8), J=-386(LC 8)
Max Grav All reactions 250 lb or less at joint(s) G, B, H, I except J=335(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-C=-677/244, C-D=-438/209, D-E=-356/212
WEBS E-H=-128/293, C-J=-234/416

**NOTES-** (10)
1) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
4) Gable requires continuous bottom chord bearing.
5) Gable studs spaced at 2-0-0 oc.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) G, B except (jt=lb) H=206, I=108, J=386.
9) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
10) This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.




March 30,2017




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

| Job | Truss | Truss Type | Qty | Ply | H&H-NC/Calabash/ |
|---|---|---|---|---|---|
| 763062_NC_OFA | J04A | GABLE | 2 | 1 | I29418279 |
| | | | | | Job Reference (optional) |

Builders FirstSource, Sumter, SC

7.640 s Sep 29 2015 MiTek Industries, Inc. Wed Mar 29 15:30:16 2017 Page 1
ID:jTgj18SwfyF8hyT9h0Yt9kzZiYQ-pB5mUOddsAHBg0He6gT_rMwpUDfp_29r6leD0CzW1Wb

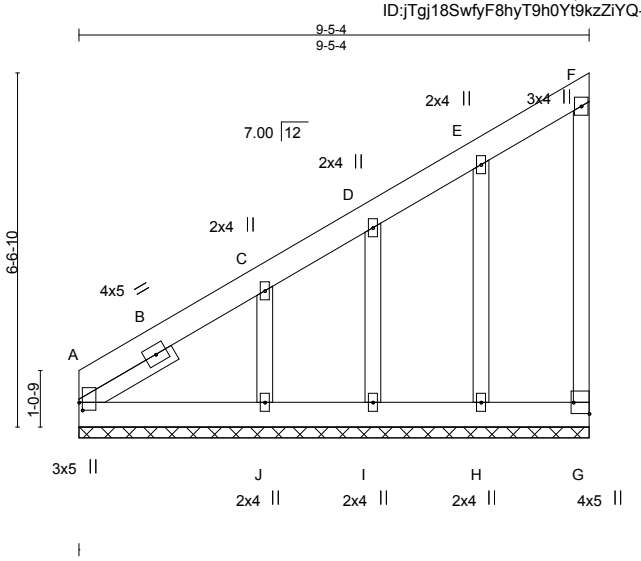



Plate Offsets (X,Y)-- [A:0-1-12,0-0-12], [G:Edge,0-3-8]

| 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 | 0.81 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.14 | Vert(TL) | n/a | - | n/a | 999 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.15 | Horz(TL) | 0.00 | G | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2009/TPI2007 | (Matrix) | | | | | | | Weight: 74 lb | FT = 20% |

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

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

**REACTIONS.** All bearings 9-5-4.
(lb) - Max Horz A=507(LC 7)
Max Uplift All uplift 100 lb or less at joint(s) G except A=-108(LC 6), H=-204(LC 8), I=-114(LC 8), J=-408(LC 8)
Max Grav All reactions 250 lb or less at joint(s) A, G, H, I except J=271(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD A-B=-716/244, B-C=-698/254, C-D=-440/207, D-E=-361/212
WEBS E-H=-125/297, C-J=-193/489

**NOTES-** (10)
1) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
4) Gable requires continuous bottom chord bearing.
5) Gable studs spaced at 2-0-0 oc.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) G except (jt=lb) A=108, H=204, I=114, J=408.
9) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
10) This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.


March 30,2017



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

| Job | Truss | Truss Type | Qty | Ply | H&H-NC/Calabash/ |
|---|---|---|---|---|---|
| 763062_NC_OFA | J05 | MONOPITCH GIRDER | 2 | 1 | I29418280 |
| | | | | | Job Reference (optional) |

Builders FirstSource, Sumter, SC

7.640 s Sep 29 2015 MiTek Industries, Inc. Wed Mar 29 15:30:16 2017 Page 1
ID:jTgj18SwfyF8hyT9h0Yt9kzZiYQ-pB5mUOddsAHBg0He6gT_rMwtqDVD_r4r6leD0CzW1Wb

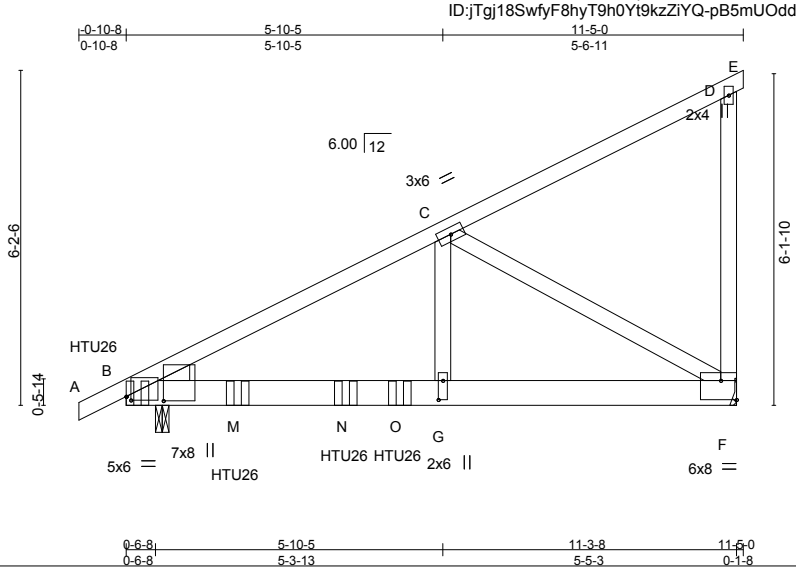



Plate Offsets (X,Y)-- [B:0-1-1,0-0-13], [B:0-0-15,0-8-4], [F:Edge,0-4-4], [G:0-4-4,0-1-0]

| **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 | 0.53 | Vert(LL) | -0.05 | G-L | >999 | 360 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.81 | Vert(TL) | -0.13 | G-L | >999 | 240 | | |
| BCLL | 0.0 * | Rep Stress Incr | NO | WB | 0.98 | Horz(TL) | -0.02 | F | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2009/TPI2007 | (Matrix-M) | | Wind(LL) | 0.12 | G-L | >999 | 240 | Weight: 68 lb | FT = 20% |

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

**BRACING-**
TOP CHORD Structural wood sheathing directly applied or 4-4-14 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 5-9-1 oc bracing.

**REACTIONS.** (lb/size) B=2254/0-3-0, F=886/Mechanical
Max Horz B=385(LC 13)
Max Uplift B=-1964(LC 6), F=-937(LC 6)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-C=-1562/1250
BOT CHORD B-M=-1360/1368, M-N=-1360/1368, N-O=-1360/1368, G-O=-1360/1368, F-G=-1360/1368
WEBS C-G=-1064/1095, C-F=-1566/1555

**NOTES-**
1) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise); cantilever left exposed ; end vertical left exposed; porch left exposed; Lumber DOL=1.60 plate grip DOL=1.60
2) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
5) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) B=1964, F=937.
7) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
8) Use Simpson Strong-Tie HTU26 (20-10d Girder, 11-10dx1 1/2 Truss, Single Ply Girder) or equivalent spaced at 2-0-12 oc max. starting at 0-0-0 from the left end to 5-0-12 to connect truss(es) to back face of bottom chord.
9) Fill all nail holes where hanger is in contact with lumber.
10) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

**LOAD CASE(S)** Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: A-D=-60, D-E=-20, F-H=-20
Concentrated Loads (lb)
Vert: H=-555(B) M=-545(B) N=-545(B) O=-545(B)


March 30,2017



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

| Job | Truss | Truss Type | Qty | Ply | H&H-NC/Calabash/ |
|---|---|---|---|---|---|
| 763062_NC_OFA | J06 | MONOPITCH | 4 | 1 | I29418281 |
| | | | | | Job Reference (optional) |

Builders FirstSource, Sumter, SC — 7.640 s Sep 29 2015 MiTek Industries, Inc. Wed Mar 29 15:30:16 2017 Page 1
ID:jTgj18SwfyF8hyT9h0Yt9kzZiYQ-pB5mUOddsAHBg0He6gT_rMwtgDfl__yr6leD0CzW1Wb

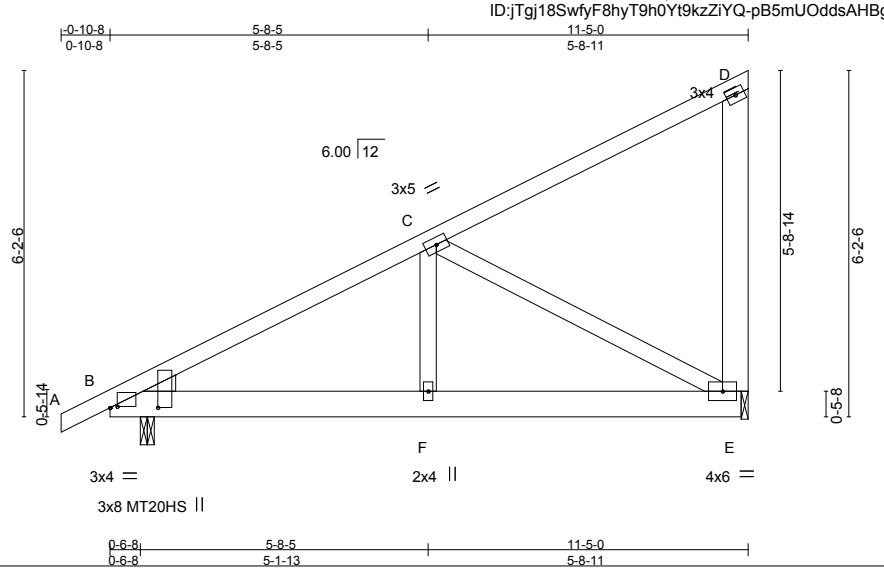



Plate Offsets (X,Y)-- [B:0-1-9,0-0-4], [B:0-0-1,0-10-4]

| 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 | 0.54 | Vert(LL) | -0.01 | E-F | >999 | 360 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.17 | Vert(TL) | -0.02 | E-F | >999 | 240 | MT20HS | 187/143 |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.41 | Horz(TL) | -0.01 | E | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2009/TPI2007 | (Matrix-S) | | Wind(LL) | 0.04 | E-F | >999 | 240 | Weight: 73 lb | FT = 20% |

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

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

**REACTIONS.** (lb/size) B=527/0-3-0, E=420/0-1-8
Max Horz B=380(LC 8)
Max Uplift B=-480(LC 8), E=-530(LC 8)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-C=-535/963, D-E=-143/290
BOT CHORD B-F=-1289/430, E-F=-1289/430
WEBS C-E=-461/1392, C-F=-588/218

**NOTES-**
1) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Exterior(2) zone; cantilever left exposed ; end vertical left exposed; porch left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
3) All plates are MT20 plates unless otherwise indicated.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) Bearing at joint(s) E considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
7) Provide mechanical connection (by others) of truss to bearing plate at joint(s) E.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) B=480, E=530.
9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and ½" gypsum sheetrock be applied directly to the bottom chord.

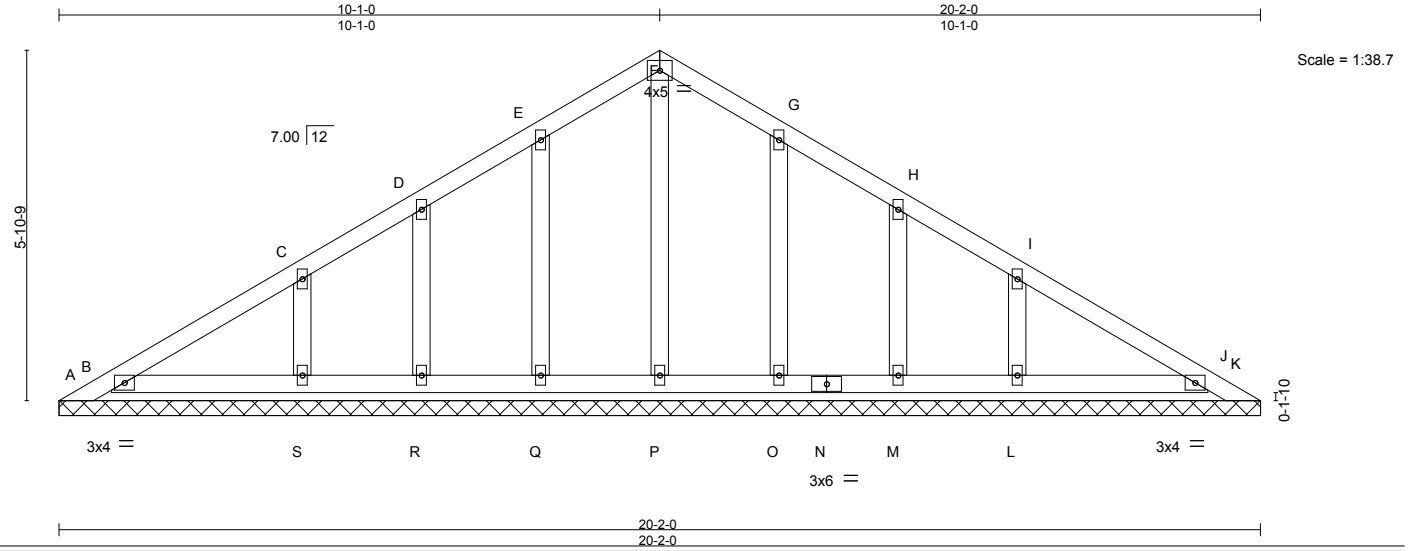

March 30,2017




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

| Job | Truss | Truss Type | Qty | Ply | H&H-NC/Calabash/ |
|---|---|---|---|---|---|
| 763062_NC_OFA | PB01 | GABLE | 12 | 1 | I29418282 |
| | | | | | Job Reference (optional) |

Builders FirstSource, Sumter, SC — 7.640 s Sep 29 2015 MiTek Industries, Inc. Wed Mar 29 15:30:17 2017 Page 1
ID:jTgj18SwfyF8hyT9h0Yt9kzZiYQ-HNf8hkdFdTP2HAsqgO_DOaT8pd09jWB_LPOnZezW1Wa




| 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 | 0.13 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.07 | Vert(TL) | n/a | - | n/a | 999 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.10 | Horz(TL) | 0.01 | J | n/a | n/a | | |
| BCDL | 10.0 | Code IRC2009/TPI2007 | | (Matrix) | | | | | | | Weight: 95 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.** All bearings 20-2-0.
(lb) - Max Horz A=-374(LC 6)
Max Uplift All uplift 100 lb or less at joint(s) K except A=-201(LC 6), B=-223(LC 8), Q=-196(LC 8), J=-183(LC 9), R=-161(LC 8), S=-262(LC 8), O=-194(LC 9), M=-161(LC 9), L=-261(LC 9)
Max Grav All reactions 250 lb or less at joint(s) A, K, B, P, Q, J, R, S, O, M, L

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD A-B=-439/430, B-C=-280/226, E-F=-48/300, F-G=-48/294
WEBS C-S=-167/292, I-L=-167/291

**NOTES-** (13)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
5) All plates are 2x4 MT20 unless otherwise indicated.
6) Gable requires continuous bottom chord bearing.
7) Gable studs spaced at 2-0-0 oc.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) K except (jt=lb) A=201, B=223, Q=196, J=183, R=161, S=262, O=194, M=161, L=261.
11) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
12) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
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.


March 30,2017



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

| Job | Truss | Truss Type | Qty | Ply | H&H-NC/Calabash/ |
|---|---|---|---|---|---|
| 763062_NC_OFA | PB02 | GABLE | 212 | 1 | I29418283 |
| | | | | | Job Reference (optional) |

Builders FirstSource, Sumter, SC — 7.640 s Sep 29 2015 MiTek Industries, Inc. Wed Mar 29 15:30:18 2017 Page 1
ID:jTgj18SwfyF8hyT9h0Yt9kzZiYQ-lZDWv4etOnXvvJR0E5WSxn0Ie1KASz68a37K54zW1WZ

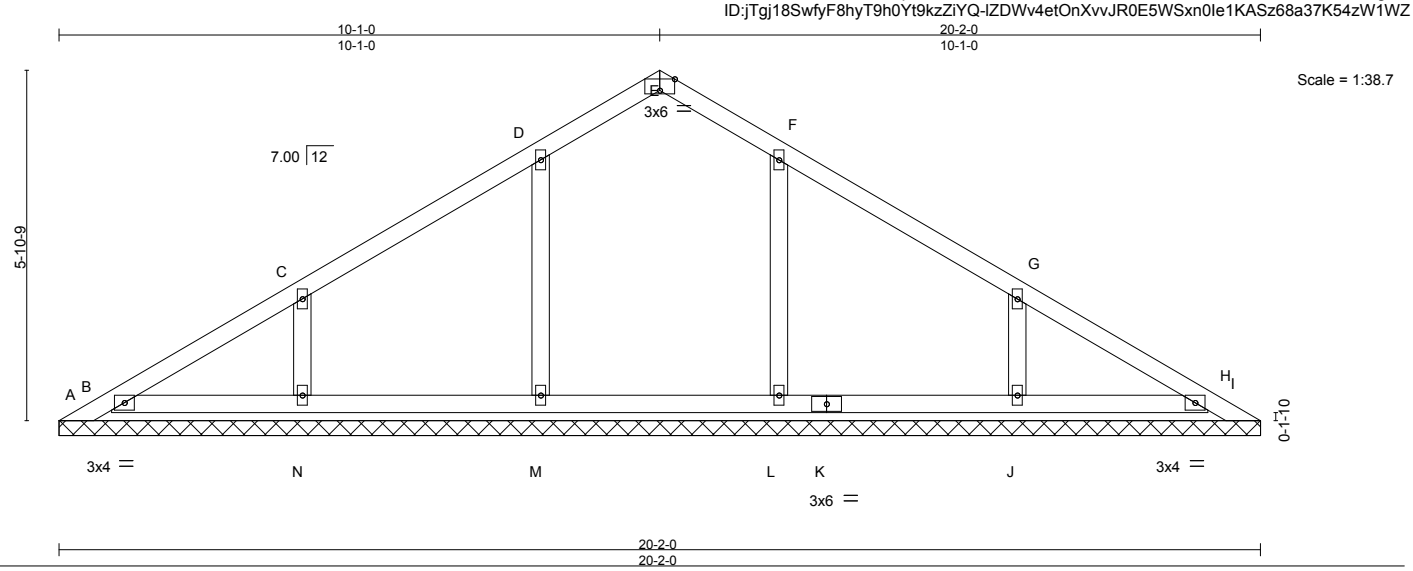



Plate Offsets (X,Y)-- [E:0-3-0,Edge], [F:0-0-0,0-0-0], [G:0-0-0,0-0-0]

| 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 | 0.19 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.14 | Vert(TL) | n/a | - | n/a | 999 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.12 | Horz(TL) | 0.01 | H | n/a | n/a | | |
| BCDL | 10.0 | Code IRC2009/TPI2007 | | (Matrix) | | | | | | | Weight: 79 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.** All bearings 20-2-0.
(lb) - Max Horz A=-299(LC 6)
Max Uplift All uplift 100 lb or less at joint(s) I, B except A=-153(LC 6), M=-176(LC 8), N=-232(LC 8), L=-170(LC 9), J=-233(LC 9)
Max Grav All reactions 250 lb or less at joint(s) A, I, B, H except M=326(LC 2), N=309(LC 13), L=326(LC 2), J=309(LC 14)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD A-B=-344/342, B-C=-308/69, G-H=-308/47
BOT CHORD B-N=-33/348, M-N=-33/348, L-M=-33/348, K-L=-33/348, J-K=-33/348, H-J=-33/348
WEBS D-M=-213/310, C-N=-231/392, F-L=-213/310, G-J=-231/392

**NOTES-** (13)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Exterior(2) zone; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
5) All plates are 2x4 MT20 unless otherwise indicated.
6) Gable requires continuous bottom chord bearing.
7) Gable studs spaced at 4-0-0 oc.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) I, B except (jt=lb) A=153, M=176, N=232, L=170, J=233.
11) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
12) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
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.


March 30,2017



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

| Job | Truss | Truss Type | Qty | Ply | H&H-NC/Calabash/ |
|---|---|---|---|---|---|
| 763062_NC_OFA | PB03 | GABLE | 2 | 1 | I29418284 |
| | | | | | Job Reference (optional) |

Builders FirstSource, Sumter, SC — 7.640 s Sep 29 2015 MiTek Industries, Inc. Wed Mar 29 15:30:19 2017 Page 1
ID:jTgj18SwfyF8hyT9h0Yt9kzZiYQ-DInu6QfW95fmXT0Dop1hT?YUDQivBRFHpjtudXzW1WY

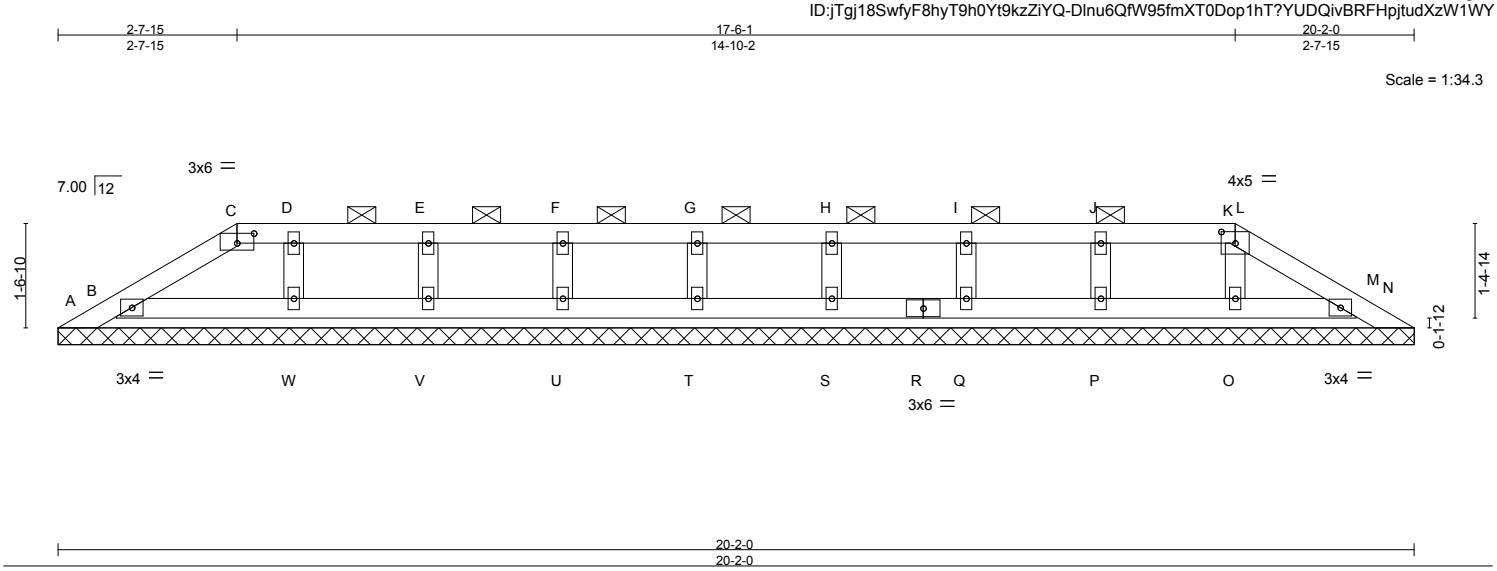



Plate Offsets (X,Y)-- [C:0-3-0,0-1-12], [L:0-2-8,0-2-1]

| 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) | n/a | - | n/a | 999 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.05 | Vert(TL) | n/a | - | n/a | 999 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.06 | Horz(TL) | 0.00 | N | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2009/TPI2007 | (Matrix) | | | | | | | Weight: 68 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, except 2-0-0 oc purlins (6-0-0 max.): C-K.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** All bearings 20-2-0.
(lb) - Max Horz A=92(LC 7)
Max Uplift All uplift 100 lb or less at joint(s) A, N, O except B=-190(LC 8), P=-175(LC 7), Q=-153(LC 6), S=-158(LC 7), T=-157(LC 6), U=-158(LC 7), V=-172(LC 6), W=-165(LC 7), M=-137(LC 9)
Max Grav All reactions 250 lb or less at joint(s) A, N, B, O, P, Q, S, T, U, V, W, M

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

**NOTES-**
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
5) Provide adequate drainage to prevent water ponding.
6) All plates are 2x4 MT20 unless otherwise indicated.
7) Gable requires continuous bottom chord bearing.
8) Gable studs spaced at 2-0-0 oc.
9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
10) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) A, N, O except (jt=lb) B=190, P=175, Q=153, S=158, T=157, U=158, V=172, W=165, M=137.
12) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
13) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
14) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.


March 30,2017



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

| Job | Truss | Truss Type | Qty | Ply | H&H-NC/Calabash/ |
|---|---|---|---|---|---|
| 763062_NC_OFA | PB04 | GABLE | 2 | 1 | I29418285 |
| | | | | | Job Reference (optional) |

Builders FirstSource, Sumter, SC — 7.640 s Sep 29 2015 MiTek Industries, Inc. Wed Mar 29 15:30:20 2017 Page 1
ID:jTgj18SwfyF8hyT9h0Yt9kzZiYQ-hyLHKmg8wOnc8dbPLWYw0C5dyq15wtuQ1NcR9zzW1WX

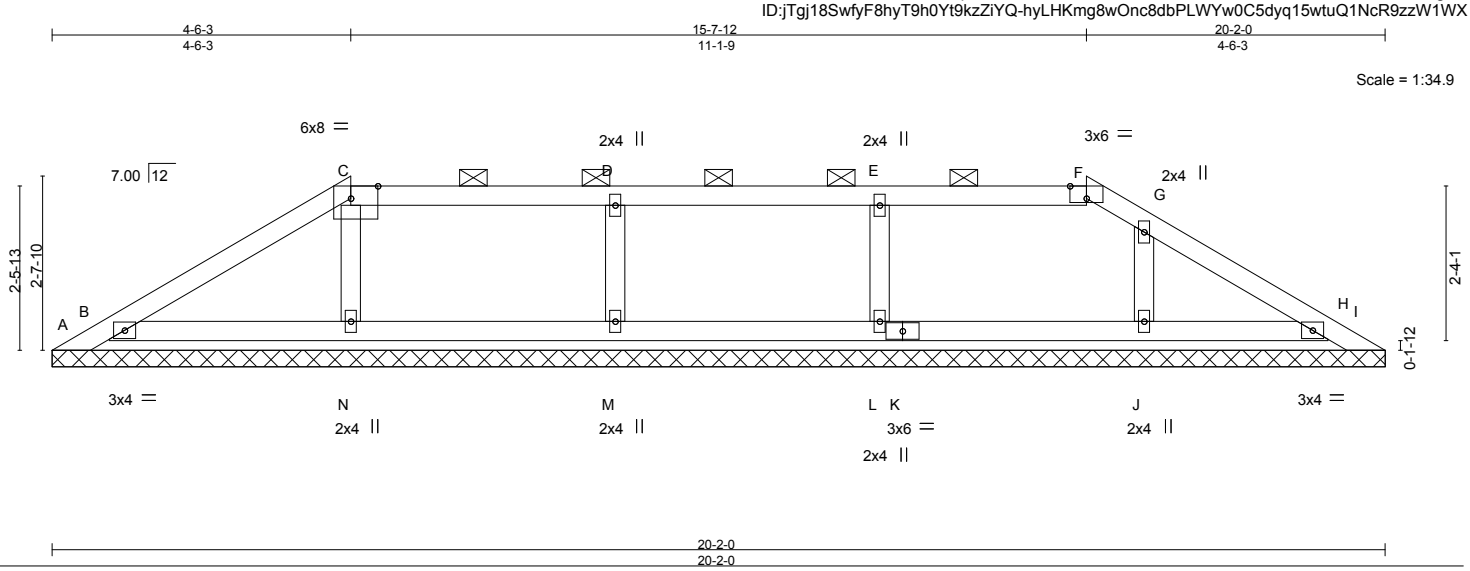



Plate Offsets (X,Y)-- [C:0-4-15,Edge], [F:0-3-0,Edge]

| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.15 | TC | 0.20 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.11 | Vert(TL) | n/a | - | n/a | 999 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.10 | Horz(TL) | -0.00 | H | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2009/TPI2007 | (Matrix) | | | | | | | Weight: 69 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, except 2-0-0 oc purlins (6-0-0 max.): C-F.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** All bearings 20-2-0.
(lb) - Max Horz A=-126(LC 6)
Max Uplift All uplift 100 lb or less at joint(s) I, J except A=-111(LC 6), B=-243(LC 8), N=-115(LC 7), M=-217(LC 6), L=-186(LC 7), H=-130(LC 9)
Max Grav All reactions 250 lb or less at joint(s) A, I, H except B=331(LC 13), N=262(LC 1), M=340(LC 14), L=320(LC 13), J=257(LC 14)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS D-M=-261/330, E-L=-238/298

**NOTES-**
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Exterior(2) zone; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
5) Provide adequate drainage to prevent water ponding.
6) Gable requires continuous bottom chord bearing.
7) Gable studs spaced at 4-0-0 oc.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) I, J except (jt=lb) A=111, B=243, N=115, M=217, L=186, H=130.
11) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
12) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.


March 30,2017



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

| Job | Truss | Truss Type | Qty | Ply | H&H-NC/Calabash/ I29418286 |
|---|---|---|---|---|---|
| 763062_NC_OFA | PB05 | GABLE | 3 | 1 | Job Reference (optional) |

Builders FirstSource, Sumter, SC — 7.640 s Sep 29 2015 MiTek Industries, Inc. Wed Mar 29 15:30:21 2017 Page 1
ID:jTgj18SwfyF8hyT9h0Yt9kzZiYQ-A8vfX6gmhivTmnAbvE39YQep1ENMfKDaG1M_iPzW1WW

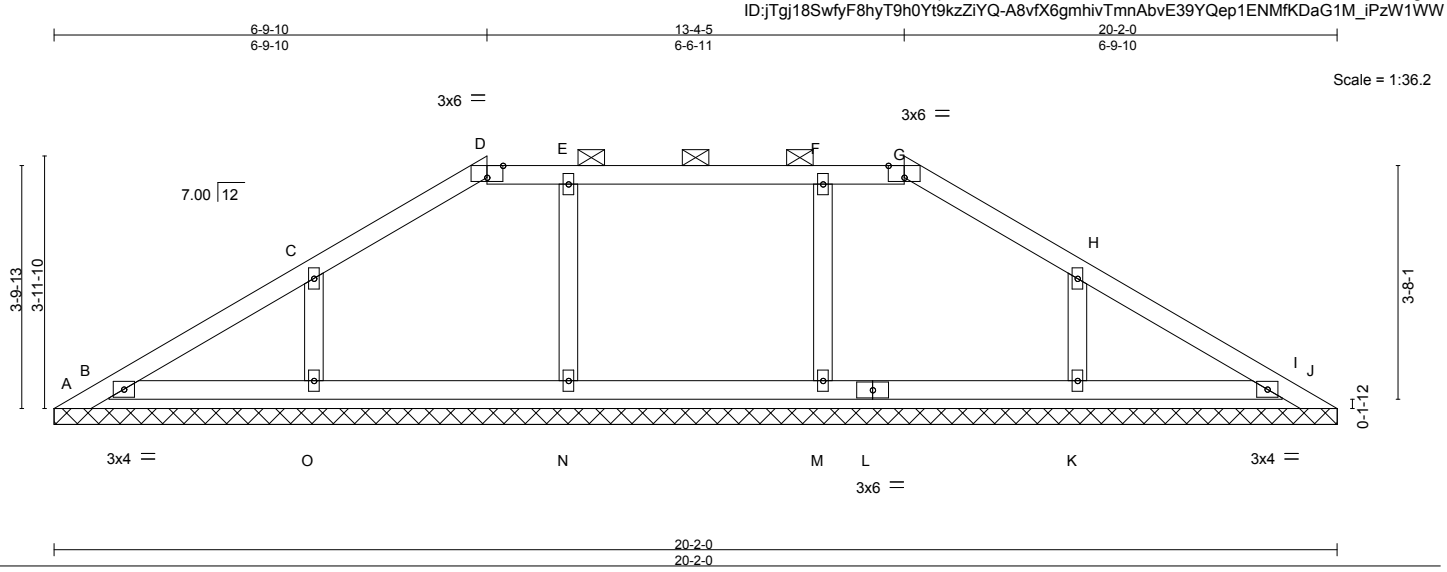



Plate Offsets (X,Y)-- [D:0-3-0,Edge], [G:0-3-0,Edge], [H:0-0-0,0-0-0]

| 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 | 0.18 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.11 | Vert(TL) | n/a | - | n/a | 999 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.09 | Horz(TL) | 0.00 | I | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2009/TPI2007 | (Matrix) | | | | | | | Weight: 75 lb | FT = 20% |

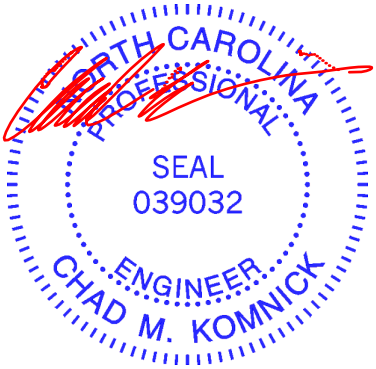
**LUMBER-**
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.3

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

**REACTIONS.** All bearings 20-2-0.
(lb) - Max Horz A=195(LC 7)
Max Uplift All uplift 100 lb or less at joint(s) J except A=-104(LC 6), B=-149(LC 8), N=-197(LC 7), O=-185(LC 8), M=-188(LC 6), I=-116(LC 9), K=-182(LC 9)
Max Grav All reactions 250 lb or less at joint(s) A, J except B=260(LC 1), N=318(LC 13), O=287(LC 13), M=318(LC 14), I=260(LC 1), K=287(LC 14)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS E-N=-238/260, C-O=-208/312, F-M=-238/260, H-K=-208/312

**NOTES-**
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Exterior(2) zone; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
5) Provide adequate drainage to prevent water ponding.
6) All plates are 2x4 MT20 unless otherwise indicated.
7) Gable requires continuous bottom chord bearing.
8) Gable studs spaced at 4-0-0 oc.
9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
10) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) J except (jt=lb) A=104, B=149, N=197, O=185, M=188, I=116, K=182.
12) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
13) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
14) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.




March 30,2017



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

| Job | Truss | Truss Type | Qty | Ply | H&H-NC/Calabash/ I29418287 |
|---|---|---|---|---|---|
| 763062_NC_OFA | PB06 | GABLE | 3 | 1 | Job Reference (optional) |

Builders FirstSource, Sumter, SC — 7.640 s Sep 29 2015 MiTek Industries, Inc. Wed Mar 29 15:30:22 2017 Page 1
ID:jTgj18SwfyF8hyT9h0Yt9kzZiYQ-eKT1kShOS01KOxlnTxaO5dAzbei6On5jVh5YErzW1WV

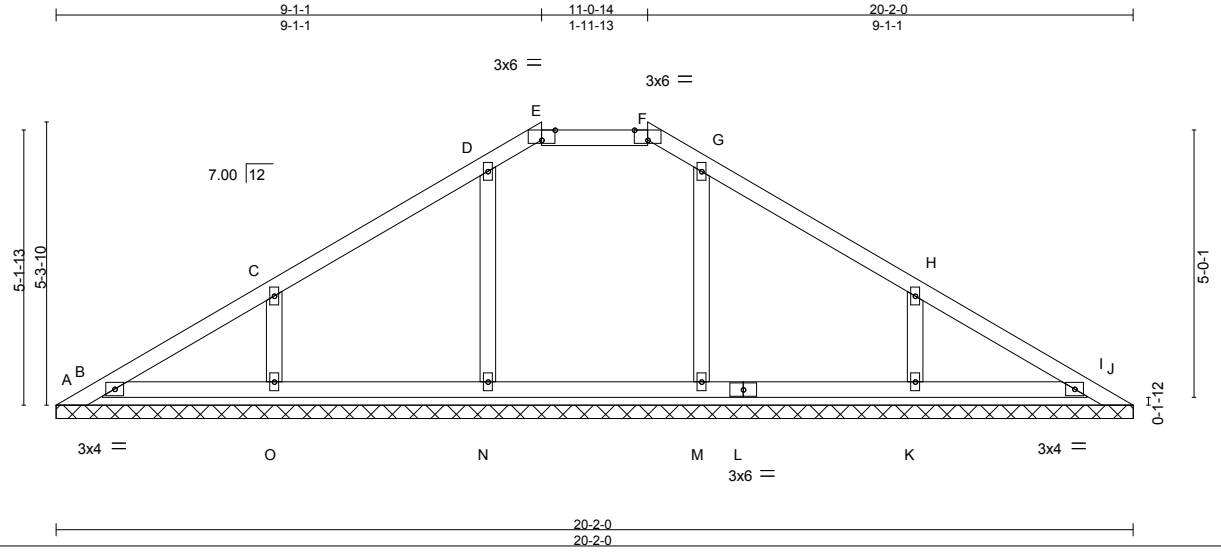



Plate Offsets (X,Y)-- [E:0-3-0,Edge], [F:0-3-0,Edge], [G:0-0-0,0-0-0], [H:0-0-0,0-0-0]

| 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 | 0.20 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.14 | Vert(TL) | n/a | - | n/a | 999 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.12 | Horz(TL) | 0.01 | I | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2009/TPI2007 | (Matrix) | | | | | | | Weight: 79 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, except 2-0-0 oc purlins (6-0-0 max.): E-F.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** All bearings 20-2-0.
(lb) - Max Horz A=-265(LC 6)
Max Uplift All uplift 100 lb or less at joint(s) J, I except A=-145(LC 6), B=-148(LC 7), N=-143(LC 8), O=-234(LC 8), M=-131(LC 9), K=-236(LC 9)
Max Grav All reactions 250 lb or less at joint(s) A, J, B, I except N=327(LC 2), O=307(LC 1), M=327(LC 2), K=307(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD A-B=-312/308
BOT CHORD B-O=-89/266, N-O=-89/266, M-N=-89/266, L-M=-89/266, K-L=-89/266, I-K=-89/266
WEBS D-N=-215/267, C-O=-229/393, G-M=-215/268, H-K=-229/393

**NOTES-**
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Exterior(2) zone; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
5) Provide adequate drainage to prevent water ponding.
6) All plates are 2x4 MT20 unless otherwise indicated.
7) Gable requires continuous bottom chord bearing.
8) Gable studs spaced at 4-0-0 oc.
9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
10) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) J, I except (jt=lb) A=145, B=148, N=143, O=234, M=131, K=236.
12) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
13) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
14) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.


March 30,2017



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

| Job | Truss | Truss Type | Qty | Ply | H&H-NC/Calabash/ |
|---|---|---|---|---|---|
| 763062_NC_OFA | PB07 | GABLE | 3 | 1 | I29418288 |
| | | | | | Job Reference (optional) |

Builders FirstSource, Sumter, SC

7.640 s Sep 29 2015 MiTek Industries, Inc. Wed Mar 29 15:30:23 2017 Page 1
ID:jTgj18SwfyF8hyT9h0Yt9kzZiYQ-6X0Pyoi0DJ9B?5K_0e5derj8712N7ELtkLr5mIzW1WU

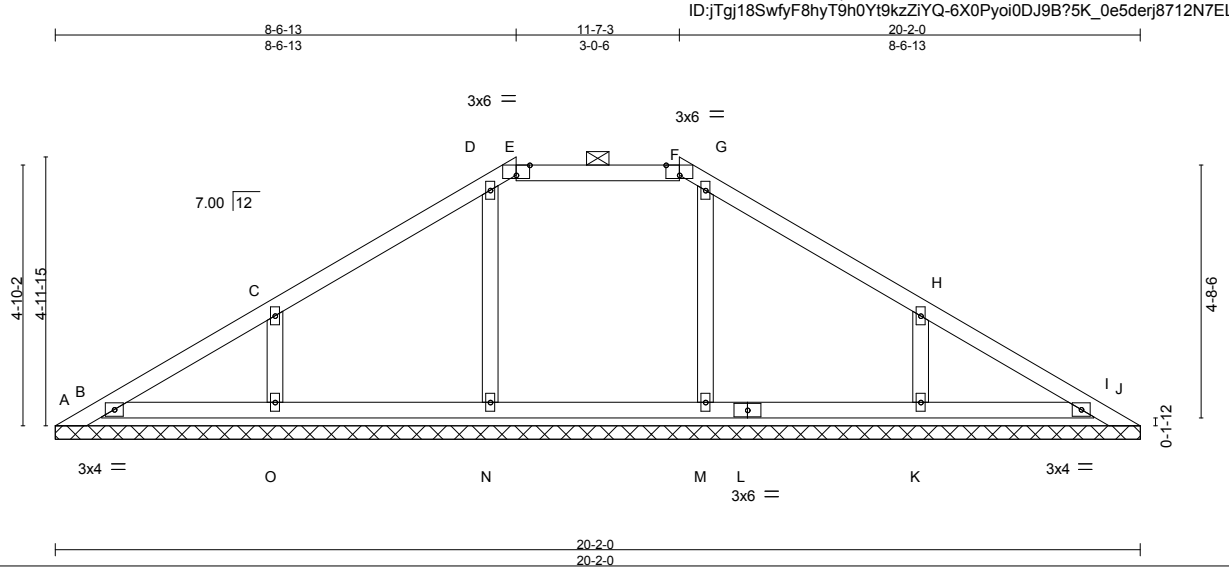



Plate Offsets (X,Y)-- [E:0-3-0,Edge], [F:0-3-0,Edge], [G:0-0-0,0-0-0], [H:0-0-0,0-0-0]

| 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 | 0.21 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.14 | Vert(TL) | n/a | - | n/a | 999 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.12 | Horz(TL) | 0.01 | I | n/a | n/a | | |
| BCDL | 10.0 | Code IRC2009/TPI2007 | | (Matrix) | | | | | | | Weight: 78 lb | FT = 20% |

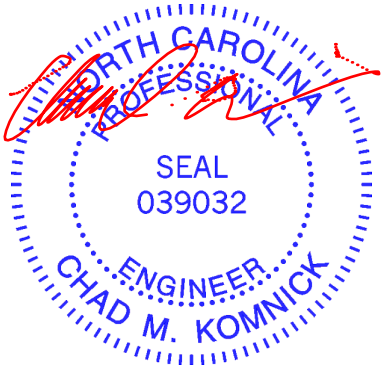
**LUMBER-**
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.3

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

**REACTIONS.** All bearings 20-2-0.
(lb) - Max Horz A=-249(LC 6)
Max Uplift All uplift 100 lb or less at joint(s) J, I, M except A=-133(LC 6), B=-150(LC 7), N=-145(LC 7), O=-236(LC 8), K=-238(LC 9)
Max Grav All reactions 250 lb or less at joint(s) A, J, B, I except N=337(LC 2), O=307(LC 1), M=337(LC 2), K=307(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD A-B=-295/289
WEBS C-O=-228/391, H-K=-228/391

**NOTES-**
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Exterior(2) zone; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
5) Provide adequate drainage to prevent water ponding.
6) All plates are 2x4 MT20 unless otherwise indicated.
7) Gable requires continuous bottom chord bearing.
8) Gable studs spaced at 4-0-0 oc.
9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
10) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) J, I, M except (jt=lb) A=133, B=150, N=145, O=236, K=238.
12) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
13) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
14) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.




March 30,2017



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

| Job | Truss | Truss Type | Qty | Ply | H&H-NC/Calabash/ |
|---|---|---|---|---|---|
| 763062_NC_OFA | PB08 | GABLE | 3 | 1 | I29418289 |
| | | | | | Job Reference (optional) |

Builders FirstSource, Sumter, SC — 7.640 s Sep 29 2015 MiTek Industries, Inc. Wed Mar 29 15:30:24 2017 Page 1
ID:jTgj18SwfyF8hyT9h0Yt9kzZiYQ-ajan98je_dH2dEvAaMcsA2GKRRP2sh40y?aelkzW1WT

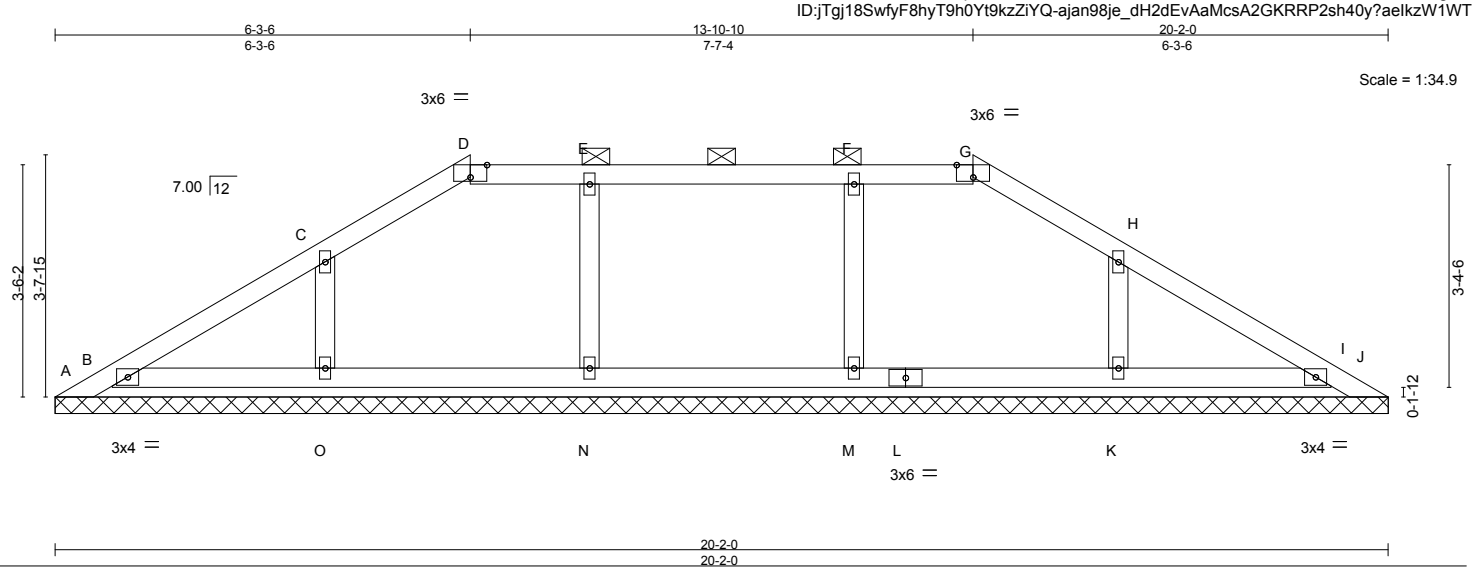



Plate Offsets (X,Y)-- [D:0-3-0,Edge], [G:0-3-0,Edge], [H:0-0-0,0-0-0]

| 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 | 0.17 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.11 | Vert(TL) | n/a | - | n/a | 999 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.09 | Horz(TL) | 0.00 | I | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2009/TPI2007 | (Matrix) | | | | | | | Weight: 74 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, except 2-0-0 oc purlins (6-0-0 max.): D-G.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** All bearings 20-2-0.
(lb) - Max Horz A=-179(LC 6)
Max Uplift All uplift 100 lb or less at joint(s) A, J except B=-158(LC 8), N=-186(LC 7), O=-168(LC 8), I=-128(LC 9), M=-181(LC 6), K=-164(LC 9)
Max Grav All reactions 250 lb or less at joint(s) A, J except B=274(LC 1), N=312(LC 13), O=275(LC 13), I=274(LC 1), M=312(LC 14), K=275(LC 14)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS E-N=-232/272, C-O=-196/287, F-M=-232/272, H-K=-196/287

**NOTES-**
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Exterior(2) zone; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
5) Provide adequate drainage to prevent water ponding.
6) All plates are 2x4 MT20 unless otherwise indicated.
7) Gable requires continuous bottom chord bearing.
8) Gable studs spaced at 4-0-0 oc.
9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
10) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) A, J except (jt=lb) B=158, N=186, O=168, I=128, M=181, K=164.
12) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
13) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
14) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.


March 30,2017



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

| Job | Truss | Truss Type | Qty | Ply | H&H-NC/Calabash/ I29418290 |
|---|---|---|---|---|---|
| 763062_NC_OFA | PB09 | GABLE | 3 | 1 | Job Reference (optional) |

Builders FirstSource, Sumter, SC — 7.640 s Sep 29 2015 MiTek Industries, Inc. Wed Mar 29 15:30:25 2017 Page 1
ID:jTgj18SwfyF8hyT9h0Yt9kzZiYQ-2v8ANTkGlwPvFOTM8385jGoUjrkMb88ABfKCrAzW1WS

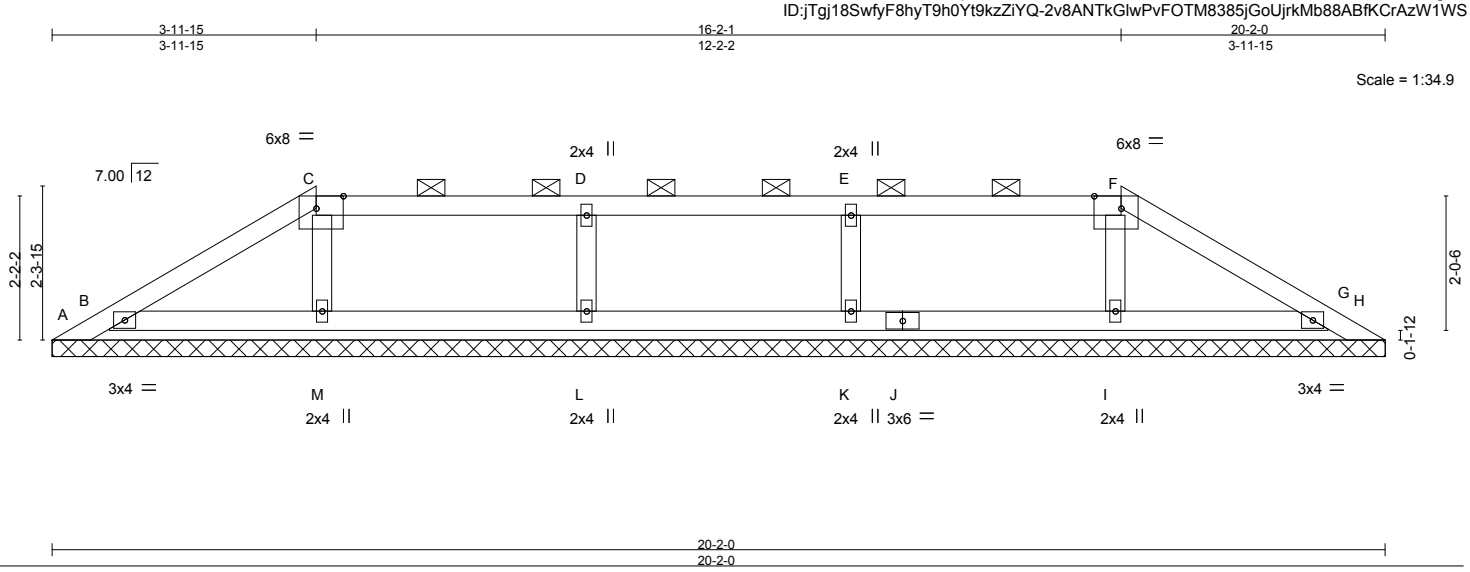



Plate Offsets (X,Y)-- [C:0-4-15,Edge], [F:0-4-15,Edge]

| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.15 | TC | 0.20 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.11 | Vert(TL) | n/a | - | n/a | 999 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.10 | Horz(TL) | 0.00 | G | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2009/TPI2007 | (Matrix) | | | | | | | Weight: 68 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, except 2-0-0 oc purlins (6-0-0 max.): C-F.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** All bearings 20-2-0.
(lb) - Max Horz A=-110(LC 6)
Max Uplift All uplift 100 lb or less at joint(s) A, H except B=-189(LC 8), L=-211(LC 6), M=-137(LC 7), G=-178(LC 9), K=-210(LC 7), I=-108(LC 6)
Max Grav All reactions 250 lb or less at joint(s) A, H, B, G except L=340(LC 14), M=271(LC 13), K=340(LC 13), I=271(LC 14)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS D-L=-259/329, E-K=-259/328

**NOTES-**
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Exterior(2) zone; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
5) Provide adequate drainage to prevent water ponding.
6) Gable requires continuous bottom chord bearing.
7) Gable studs spaced at 4-0-0 oc.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) A, H except (jt=lb) B=189, L=211, M=137, G=178, K=210, I=108.
11) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
12) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.


March 30,2017



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

| Job | Truss | Truss Type | Qty | Ply | H&H-NC/Calabash/ |
|---|---|---|---|---|---|
| 763062_NC_OFA | PB10 | GABLE | 2 | 1 | I29418291 |
| | | | | | Job Reference (optional) |

Builders FirstSource, Sumter, SC — 7.640 s Sep 29 2015 MiTek Industries, Inc. Wed Mar 29 15:30:26 2017 Page 1
ID:jTgj18SwfyF8hyT9h0Yt9kzZiYQ-W6iYapkvWEXmsY2ZinfKFTLhAF4AKc8JQJ3lNdzW1WR

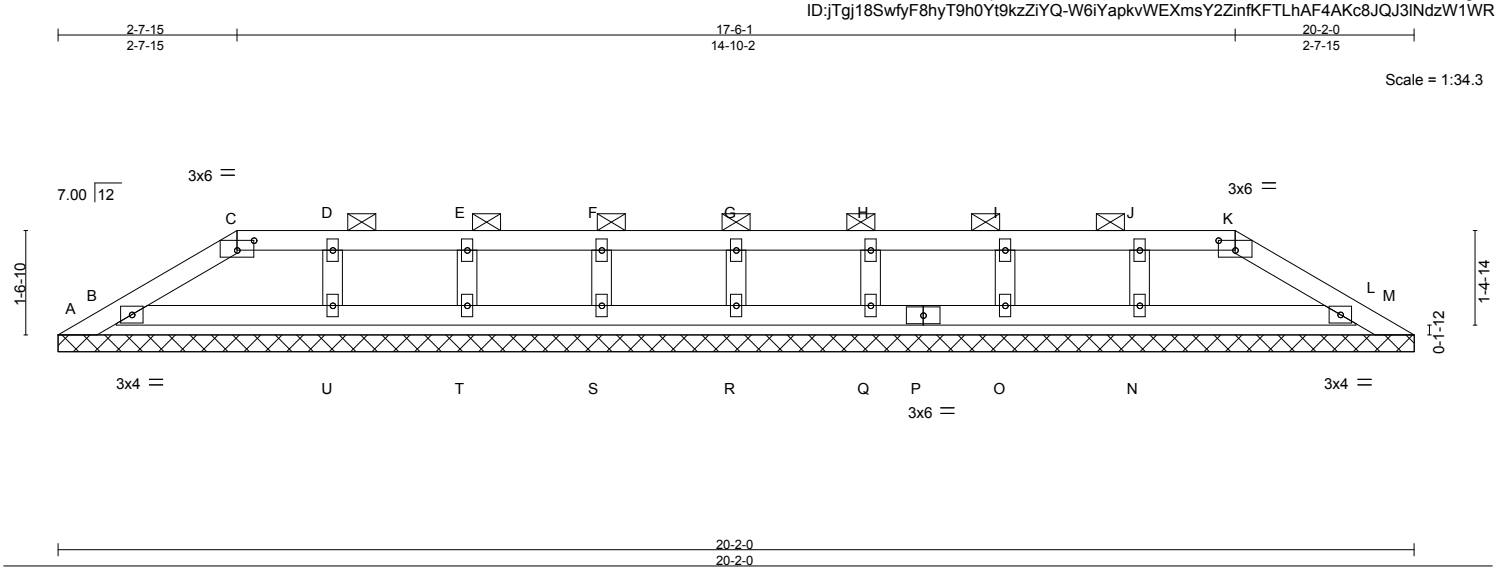



Plate Offsets (X,Y)-- [C:0-3-0,0-1-12], [K:0-3-0,0-1-12]

| 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 | 0.09 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.07 | Vert(TL) | n/a | - | n/a | 999 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.05 | Horz(TL) | 0.00 | M | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2009/TPI2007 | (Matrix) | | | | | | | Weight: 67 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, except 2-0-0 oc purlins (6-0-0 max.): C-K.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** All bearings 20-2-0.
(lb) - Max Horz A=-74(LC 6)
Max Uplift All uplift 100 lb or less at joint(s) A, M, R, S, Q except B=-148(LC 7), T=-107(LC 6), U=-113(LC 7), O=-104(LC 7), N=-105(LC 6), L=-120(LC 9)
Max Grav All reactions 250 lb or less at joint(s) A, M, B, R, S, T, U, Q, O, N, L

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

**NOTES-**
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Exterior(2) zone; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
5) Provide adequate drainage to prevent water ponding.
6) All plates are 2x4 MT20 unless otherwise indicated.
7) Gable requires continuous bottom chord bearing.
8) Gable studs spaced at 2-0-0 oc.
9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
10) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) A, M, R, S, Q except (jt=lb) B=148, T=107, U=113, O=104, N=105, L=120.
12) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
13) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
14) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.


March 30,2017

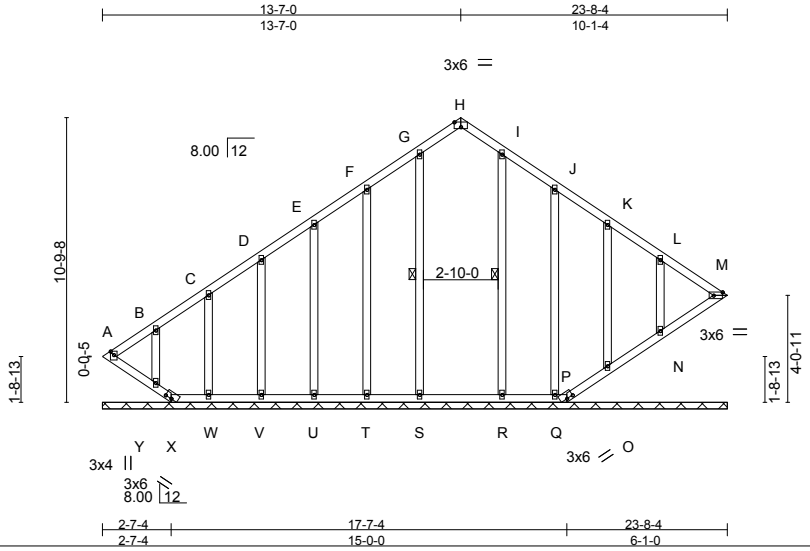


ENGINEERING BY
TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

| Job | Truss | Truss Type | Qty | Ply | H&H-NC/Calabash/ I29418292 |
|---|---|---|---|---|---|
| 763062_NC_OFA | V01 | GABLE | 5 | 1 | Job Reference (optional) |

Builders FirstSource, Sumter, SC

7.640 s Sep 29 2015 MiTek Industries, Inc. Wed Mar 29 15:30:26 2017 Page 1
ID:jTgj18SwfyF8hyT9h0Yt9kzZiYQ-W6iYapkvWEXmsY2ZinfKFTLgTF4kKaXJQJ3lNdzW1WR




Scale = 1:87.3

Plate Offsets (X,Y)-- [H:0-3-0,Edge], [M:0-4-1,Edge], [P:0-3-0,0-0-2], [X:0-3-0,0-0-2]

| 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 | 0.14 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.10 | Vert(TL) | n/a | - | n/a | 999 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.15 | Horz(TL) | 0.02 | M | n/a | n/a | | |
| BCDL | 10.0 | Code IRC2009/TPI2007 | | (Matrix) | | | | | | | Weight: 169 lb | FT = 20% |

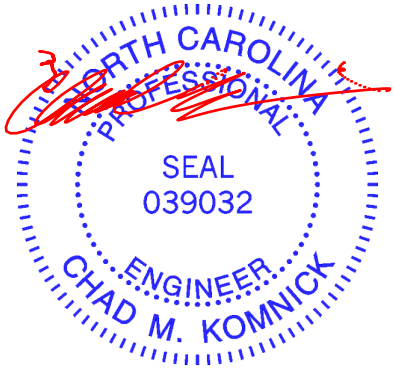
**LUMBER-**
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.3

**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.
WEBS 1 Row at midpt G-S, I-R

**REACTIONS.** All bearings 23-8-4.
(lb) - Max Horz A=564(LC 7)
Max Uplift All uplift 100 lb or less at joint(s) M, S, R except X=-252(LC 9), P=-242(LC 9), T=-238(LC 8), U=-197(LC 8), V=-204(LC 8), W=-206(LC 8), Y=-214(LC 8), Q=-257(LC 9), O=-179(LC 9), N=-251(LC 9)
Max Grav All reactions 250 lb or less at joint(s) X, P, S, T, U, V, W, Y, R, Q, O, N except A=470(LC 8), M=402(LC 9)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD A-B=-663/178, B-C=-524/165, C-D=-385/154, D-E=-266/142, L-M=-384/107
BOT CHORD A-Y=-107/454, X-Y=-107/458, W-X=-86/372, V-W=-86/372, U-V=-86/372, T-U=-86/372, S-T=-86/372, R-S=-86/372, Q-R=-86/372, P-Q=-86/372, O-P=-109/456, N-O=-109/453, M-N=-113/458
WEBS F-T=-120/259, J-Q=-121/266, L-N=-144/269

**NOTES-** (11)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
4) All plates are 2x4 MT20 unless otherwise indicated.
5) Gable requires continuous bottom chord bearing.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) M, S, R except (jt=lb) X=252, P=242, T=238, U=197, V=204, W=206, Y=214, Q=257, O=179, N=251.
9) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) A, M, Y, O, N.
10) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
11) This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.




March 30,2017



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

| Job | Truss | Truss Type | Qty | Ply | H&H-NC/Calabash/ |
|---|---|---|---|---|---|
| 763062_NC_OFA | V02 | GABLE | 2 | 1 | I29418293 |
| | | | | | Job Reference (optional) |

Builders FirstSource, Sumter, SC — 7.640 s Sep 29 2015 MiTek Industries, Inc. Wed Mar 29 15:30:27 2017 Page 1
ID:jTgj18SwfyF8hyT9h0Yt9kzZiYQ-_IGwo9lXHYfdUidlFUAZohurHfQC32DSezpJv3zW1WQ

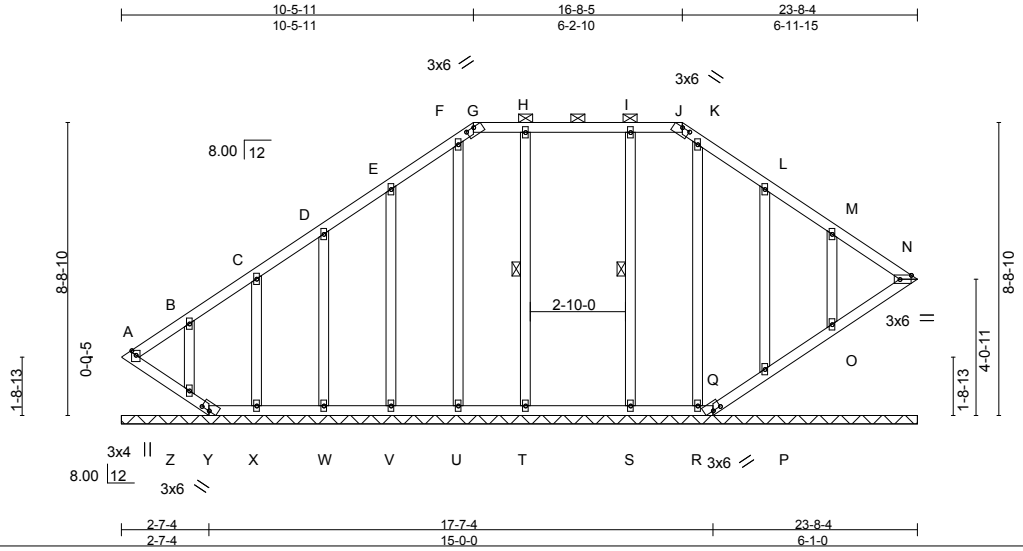



Plate Offsets (X,Y)-- [G:0-3-0,0-0-2], [J:0-3-0,0-0-2], [N:0-4-1,Edge], [Q:0-3-0,0-0-2], [Y:0-3-0,0-0-2]

| 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 | 0.13 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.08 | Vert(TL) | n/a | - | n/a | 999 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.12 | Horz(TL) | 0.01 | N | n/a | n/a | | |
| BCDL | 10.0 | Code IRC2009/TPI2007 | | (Matrix) | | | | | | | Weight: 164 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, except 2-0-0 oc purlins (6-0-0 max.): G-J.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt H-T, I-S

**REACTIONS.** All bearings 23-8-4.
(lb) - Max Horz A=430(LC 7)
Max Uplift All uplift 100 lb or less at joint(s) N, U, R except Y=-106(LC 9), Q=-102(LC 9), T=-211(LC 7), V=-226(LC 8), W=-199(LC 8), X=-206(LC 8), Z=-219(LC 8), S=-211(LC 7), P=-215(LC 9), O=-246(LC 9)
Max Grav All reactions 250 lb or less at joint(s) A, N, Y, Q, U, V, W, X, Z, R, P, O except T=250(LC 16), S=255(LC 15)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD A-B=-431/212, B-C=-300/200
WEBS E-V=-124/251, M-O=-143/264

**NOTES-** (13)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
4) Provide adequate drainage to prevent water ponding.
5) All plates are 2x4 MT20 unless otherwise indicated.
6) Gable requires continuous bottom chord bearing.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) N, U, R except (jt=lb) Y=106, Q=102, T=211, V=226, W=199, X=206, Z=219, S=211, P=215, O=246.
10) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) A, N, Z, P, O.
11) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
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.

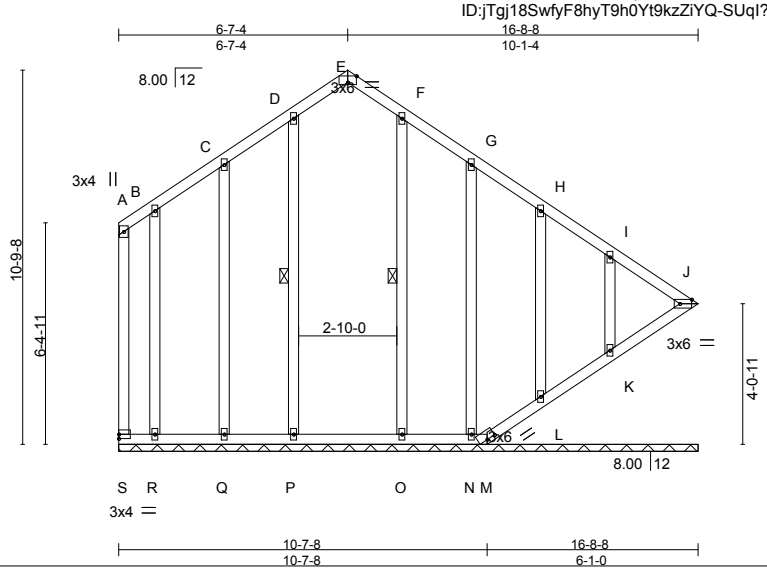

March 30,2017




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

| Job | Truss | Truss Type | Qty | Ply | H&H-NC/Calabash/ |
|---|---|---|---|---|---|
| 763062_NC_OFA | V03 | GABLE | 1 | 1 | I29418294 |
| | | | | | Job Reference (optional) |

Builders FirstSource, Sumter, SC — 7.640 s Sep 29 2015 MiTek Industries, Inc. Wed Mar 29 15:30:28 2017 Page 1
ID:jTgj18SwfyF8hyT9h0Yt9kzZiYQ-SUqI?Vm92rnU6sCxpChoLuQqj2jNoUXctdYsSVzW1WP




Scale = 1:66.4

Plate Offsets (X,Y)-- [E:0-3-0,Edge], [J:0-4-1,Edge], [M:0-3-0,0-0-2]

| 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 | 0.92 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.28 | Vert(TL) | n/a | - | n/a | 999 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.18 | Horz(TL) | 0.02 | J | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2009/TPI2007 | (Matrix) | | | | | | | Weight: 139 lb | FT = 20% |

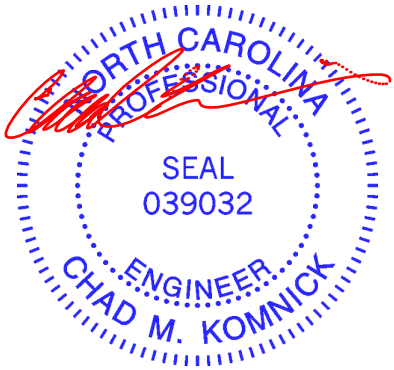
**LUMBER-**
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3
OTHERS 2x4 SP No.3

**BRACING-**
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt D-P, F-O

**REACTIONS.** All bearings 16-8-8.
(lb) - Max Horz S=-670(LC 6)
Max Uplift All uplift 100 lb or less at joint(s) S, P except J=-574(LC 7), M=-351(LC 6), Q=-333(LC 8), R=-231(LC 8), O=-269(LC 6), N=-317(LC 9), L=-171(LC 9), K=-252(LC 9)
Max Grav All reactions 250 lb or less at joint(s) S, Q, R, N, L, K except J=658(LC 6), M=315(LC 7), P=252(LC 7), O=437(LC 7)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD A-S=-153/302, A-B=-200/362, B-C=-160/389, C-D=-204/610, D-E=-122/484, E-F=-155/484, F-G=-336/610, G-H=-400/511, H-I=-495/534, I-J=-603/549
BOT CHORD R-S=-455/535, Q-R=-455/535, P-Q=-455/535, O-P=-455/535, N-O=-455/535, M-N=-455/535, L-M=-554/654, K-L=-552/650, J-K=-556/652
WEBS C-Q=-115/375, F-O=-402/303, G-N=-111/372, I-K=-144/270

**NOTES-** (11)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
4) All plates are 2x4 MT20 unless otherwise indicated.
5) Gable requires continuous bottom chord bearing.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) S, P except (jt=lb) J=574, M=351, Q=333, R=231, O=269, N=317, L=171, K=252.
9) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) J, L, K.
10) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
11) This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.




March 30,2017



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

| Job | Truss | Truss Type | Qty | Ply | H&H-NC/Calabash/ |
|---|---|---|---|---|---|
| 763062_NC_OFA | V04 | GABLE | 1 | 1 | I29418295 |
| | | | | | Job Reference (optional) |

Builders FirstSource, Sumter, SC — 7.640 s Sep 29 2015 MiTek Industries, Inc. Wed Mar 29 15:30:28 2017 Page 1
ID:my2chxDvKTP6oXCidvnjFTzpY?4-SUqI?Vm92rnU6sCxpChoLuQ1D2mSoUCctdYsSVzW1WP

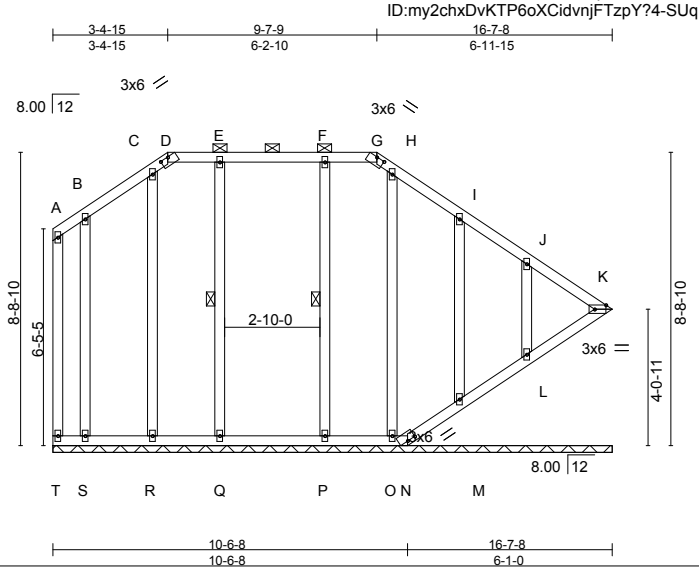



Plate Offsets (X,Y)-- [D:0-3-0,0-0-2], [G:0-3-0,0-0-2], [K:0-4-1,Edge], [N:0-3-0,0-0-2]

| 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 | 0.12 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.08 | Vert(TL) | n/a | - | n/a | 999 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.14 | Horz(TL) | 0.01 | K | n/a | n/a | | |
| BCDL | 10.0 | Code IRC2009/TPI2007 | | (Matrix) | | | | | | | Weight: 133 lb | FT = 20% |

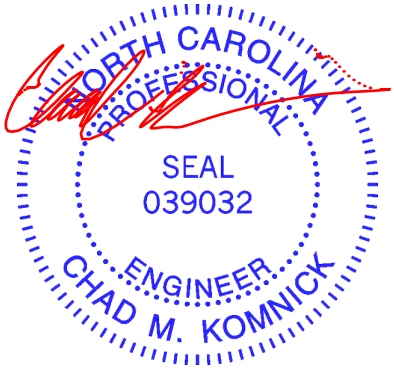
**LUMBER-**
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3
OTHERS 2x4 SP No.3

**BRACING-**
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): D-G.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: K-L.
WEBS 1 Row at midpt E-Q, F-P

**REACTIONS.** All bearings 16-7-8.
(lb) - Max Horz T=-231(LC 6)
Max Uplift All uplift 100 lb or less at joint(s) T, R, O except K=-136(LC 7), N=-146(LC 6), Q=-133(LC 6), S=-115(LC 8), P=-130(LC 6), M=-130(LC 9), L=-154(LC 9)
Max Grav All reactions 250 lb or less at joint(s) T, N, R, S, O, M, L except K=262(LC 6), Q=251(LC 16), P=256(LC 15)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
BOT CHORD M-N=-150/285, L-M=-151/283, K-L=-155/286

**NOTES-**
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Exterior(2) zone; end vertical right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
4) Provide adequate drainage to prevent water ponding.
5) All plates are 2x4 MT20 unless otherwise indicated.
6) Gable requires continuous bottom chord bearing.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) T, R, O except (jt=lb) K=136, N=146, Q=133, S=115, P=130, M=130, L=154.
10) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) K, M, L.
11) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



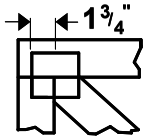

March 30,2017



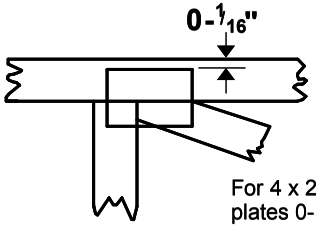
ENGINEERING BY
TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

# 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.

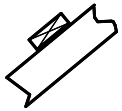
*** Plate location details available in MiTek 20/20 software or upon request.**

## PLATE SIZE

4 x 4

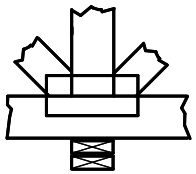
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

## 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

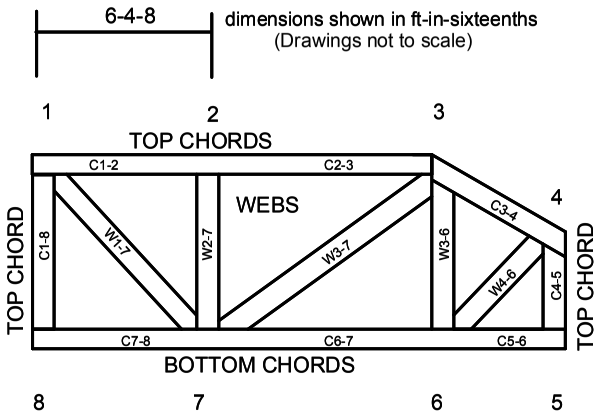


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

**Industry Standards:**

ANSI/TPI1: 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/TPI 1 section 6.3 These truss designs rely on lumber values established by others.



MiTek

ENGINEERING BY TRENCO
A MiTek Affiliate

MiTek Engineering Reference Sheet: MII-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/TPI 1.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
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/TPI 1 Quality Criteria.