

Job 66010669	Truss FT1	Truss Type FLOOR	Qty 1	Ply 1	THE SULLIVAN EUROPEAN LH
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UFP Mid Atlantic LLC, Burlington, NC

7.640 s Nov 10 2015 MiTek Industries, Inc. Thu Mar 31 16:59:07 2016 Page 1 of 1  
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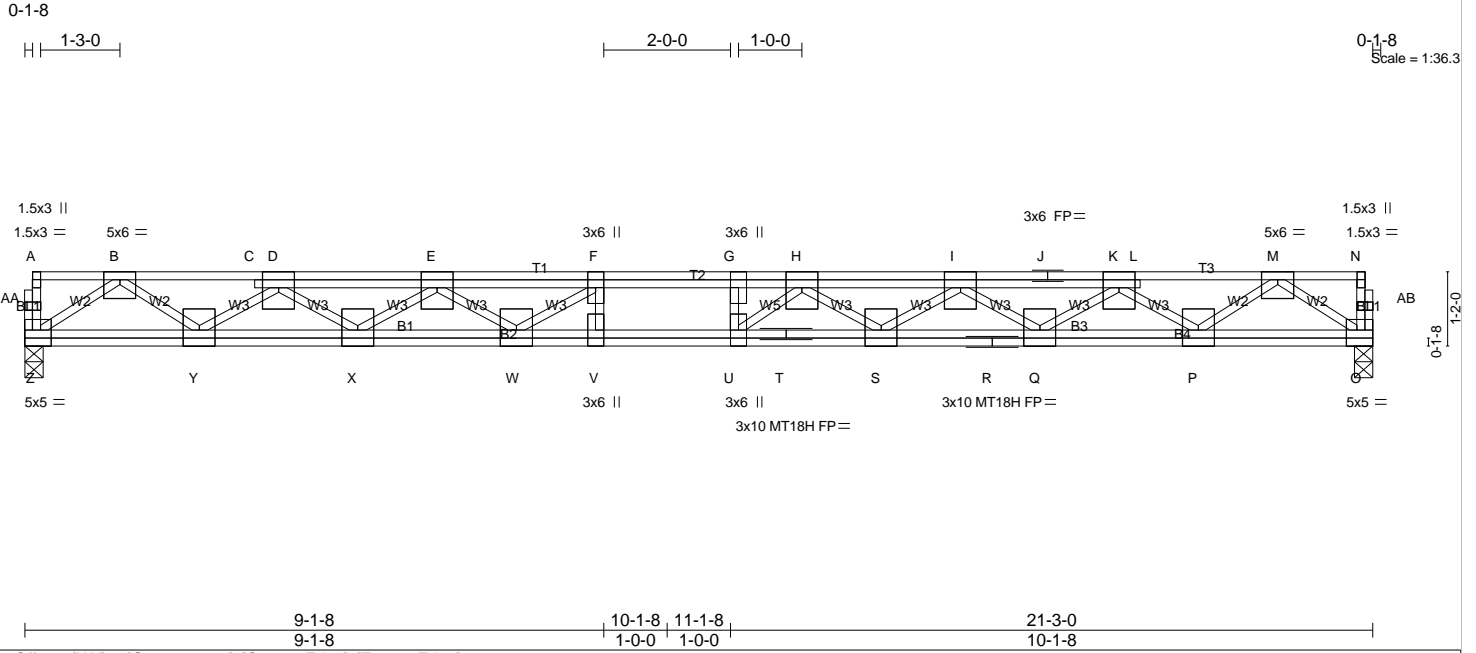


Plate Offsets (X,Y)-- [G:0-3-0,0-0-0], [O:0-2-0,Edge], [Z:0-2-0,Edge]

<b>LOADING</b> (psf)	<b>SPACING-</b> 2-0-0	<b>CSI.</b>	<b>DEFL.</b> in (loc) l/defl L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 40.0	Plate Grip DOL 1.00	TC 0.56	Vert(LL) -0.35 U >714 480	MT20	244/190
TCDL 20.0	Lumber DOL 1.00	BC 0.48	Vert(TL) -0.68 U >368 360	MT18H	244/190
BCLL 0.0	Rep Stress Incr YES	WB 0.75	Horz(TL) 0.06 O n/a n/a		
BCDL 5.0	Code IRC2009/TP12007	(Matrix)			
				Weight: 153 lb	FT = 4%F, 1%E

**LUMBER-**  
TOP CHORD 2x4 SP No.1(flat)  
BOT CHORD 2x4 SP SS(flat)  
WEBS 2x4 SP No.3(flat)

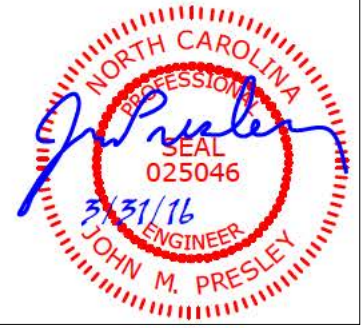
**BRACING-**  
TOP CHORD 2-0-0 oc purlins (6-0-0 max.): A-N, except end verticals.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** (lb/size) Z=1357/0-3-8 (min. 0-1-8), O=1357/0-3-8 (min. 0-1-8)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD B-C=-3060/0, C-D=-3050/0, D-E=-5522/0, E-F=-7004/0, F-G=-7551/0, G-H=-7551/0, H-I=-7005/0, I-J=-5520/0, J-K=-5520/0, K-L=-3042/0, L-M=-3059/0  
BOT CHORD Y-Z=0/1817, X-Y=0/4497, W-X=0/6500, V-W=0/7551, U-V=0/7551, T-U=0/7448, S-T=0/7448, R-S=0/6513, Q-R=0/6513, P-Q=0/4491, O-P=0/1818  
WEBS G-U=-289/46, B-Z=-2164/0, B-Y=0/1584, D-Y=-1782/0, D-X=0/1270, E-X=-1214/0, E-W=0/773, F-W=-978/0, M-O=-2166/0, M-P=0/1580, K-P=-1775/0, K-Q=0/1276, I-Q=-1232/0, I-S=0/610, H-S=-639/0, H-U=-298/639

- NOTES-**
- 1) Unbalanced floor live loads have been considered for this design.
  - 2) All plates are MT20 plates unless otherwise indicated.
  - 3) All plates are 7x6 MT20 unless otherwise indicated.
  - 4) This truss is designed in accordance with the 2009 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TP1 1.
  - 5) "Semi-rigid pitchbreaks with fixed heels" Member end fixity model was used in the analysis and design of this truss.
  - 6) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
  - 7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

**LOAD CASE(S)** Standard



This truss is to be fabricated per ANSI/TP1 quality requirements. Plates shall be of size and type shown and centered at joints unless otherwise noted. This design is based upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of the Building Designer. Building Designer shall verify all design information on this sheet for conformance with conditions and requirements of the specific building and governing codes and ordinances. Building Designer accepts responsibility for the correctness and accuracy of the design information as it may relate to a specific building. Certification is valid only when truss is fabricated by a UFP company. Bracing shown is for lateral support of truss members only and does not replace erection and permanent bracing. Refer to Building Component Safety Information (BCSI) for general guidance regarding storage, delivery, erection and bracing available from SBCA and Truss Plate Institute.



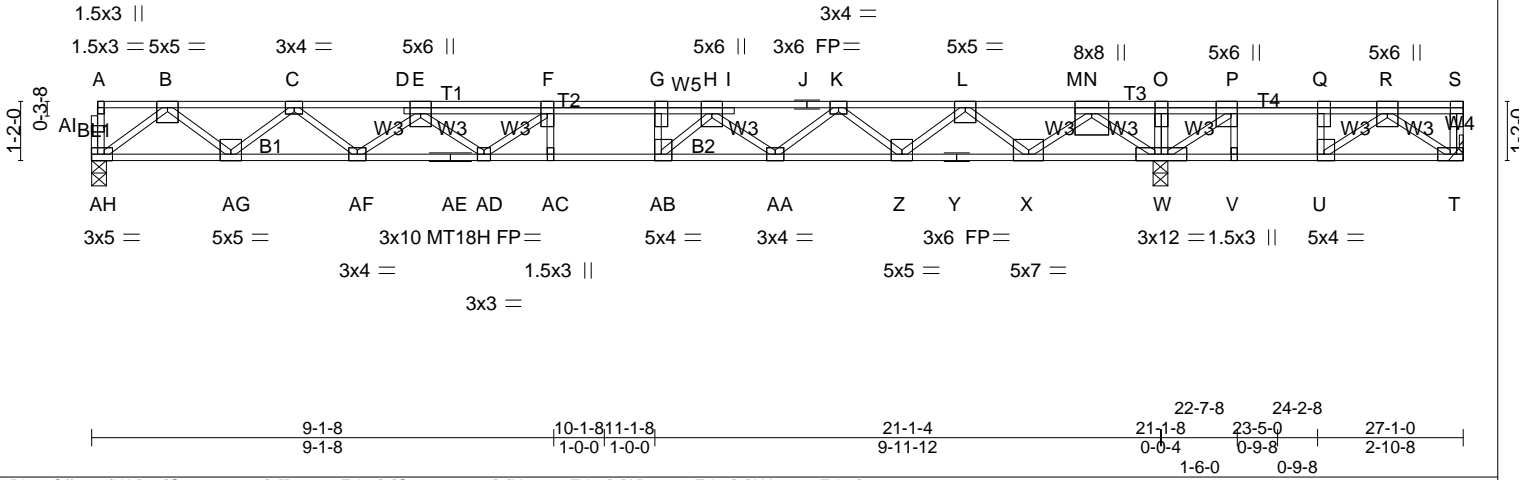


Plate Offsets (X,Y)-- [G:0-3-0,0-0-0], [P:0-3-0,Edge], [Q:0-3-0,0-0-0], [U:0-1-8,Edge], [AB:0-1-8,Edge], [AH:0-2-0,Edge]

<b>LOADING</b> (psf)	<b>SPACING-</b> 2-0-0	<b>CSI.</b>	<b>DEFL.</b> in (loc) l/defl L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 40.0	Plate Grip DOL 1.00	TC 0.78	Vert(LL) -0.33 AC >775 480	MT20	244/190
TCDL 20.0	Lumber DOL 1.00	BC 0.69	Vert(TL) -0.63 AC >401 360	MT18H	244/190
BCLL 0.0	Rep Stress Incr YES	WB 0.95	Horz(TL) 0.09 W n/a n/a		
BCDL 5.0	Code IRC2009/TPI2007	(Matrix)			
				Weight: 153 lb	FT = 4%F, 1%E

**LUMBER-**  
TOP CHORD 2x4 SP SS(flat)  
BOT CHORD 2x4 SP SS(flat)  
WEBS 2x4 SP No.3(flat)

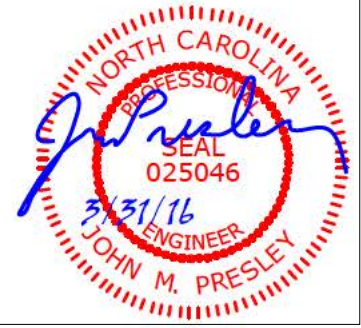
**BRACING-**  
TOP CHORD 2-0-0 oc purlins (6-0-0 max.): A-S, except end verticals.  
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

**REACTIONS.** (lb/size) AH=1164/0-3-8, T=-318/Mechanical, W=2636/0-3-8  
Max UpliftT=-554(LC 2)  
Max GravAH=1165(LC 7), T=113(LC 3), W=2636(LC 1)

**FORCES.** (lb) - Maximum Compression/Maximum Tension  
TOP CHORD AH-AI=-40/0, A-AI=-40/0, S-T=34/62, A-B=-2/0, B-C=-2476/0, C-D=-4114/0, D-E=-4078/0, E-F=-5076/0, F-G=-5282/0, G-H=-5282/0, H-I=-3845/0, I-J=-3859/0, J-K=-3859/0, K-L=-2107/0, L-M=0/469, M-N=0/454, N-O=0/4193, O-P=0/4193, P-Q=0/2305, Q-R=0/2305, R-S=0/0  
BOT CHORD AG-AH=0/1470, AF-AG=0/3446, AE-AF=0/4804, AD-AE=0/4804, AC-AD=0/5282, AB-AC=0/5282, AA-AB=0/4610, Z-AA=0/3148, Y-Z=0/1033, X-Y=0/1033, W-X=-2030/0, V-W=-2305/0, U-V=-2305/0, T-U=-744/76  
WEBS F-AC=-92/27, G-AB=-713/0, O-W=0/407, B-AH=-1841/0, B-AG=0/1309, C-AG=-1263/0, C-AF=0/869, E-AF=-877/0, E-AD=0/547, F-AD=-537/64, N-W=-2667/0, N-X=0/1988, L-X=-1872/0, L-Z=0/1404, K-Z=-1361/0, K-AA=0/931, H-AA=-959/0, H-AB=0/1198, R-T=-94/914, R-U=-1947/0, Q-U=0/1063, P-W=-2621/0, P-V=0/195

- NOTES-**
- 1) Unbalanced floor live loads have been considered for this design.
  - 2) All plates are MT20 plates unless otherwise indicated.
  - 3) All plates are 3x6 MT20 unless otherwise indicated.
  - 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 554 lb uplift at joint T.
  - 5) This truss is designed in accordance with the 2009 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
  - 6) "Semi-rigid pitchbreaks with fixed heels" Member end fixity model was used in the analysis and design of this truss.
  - 7) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
  - 8) Required 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
  - 9) CAUTION, Do not erect truss backwards.

**LOAD CASE(S)** Standard



This truss is to be fabricated per ANSI/TPI quality requirements. Plates shall be of size and type shown and centered at joints unless otherwise noted. This design is based upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of the Building Designer. Building Designer shall verify all design information on this sheet for conformance with conditions and requirements of the specific building and governing codes and ordinances. Building Designer accepts responsibility for the correctness or accuracy of the design information as it may relate to a specific building. Certification is valid only when truss is fabricated by a UFP company. Bracing shown is for lateral support of truss members only and does not replace erection and permanent bracing. Refer to Building Component Safety Information (BCSI) for general guidance regarding storage, delivery, erection and bracing available from SBCA and Truss Plate Institute.



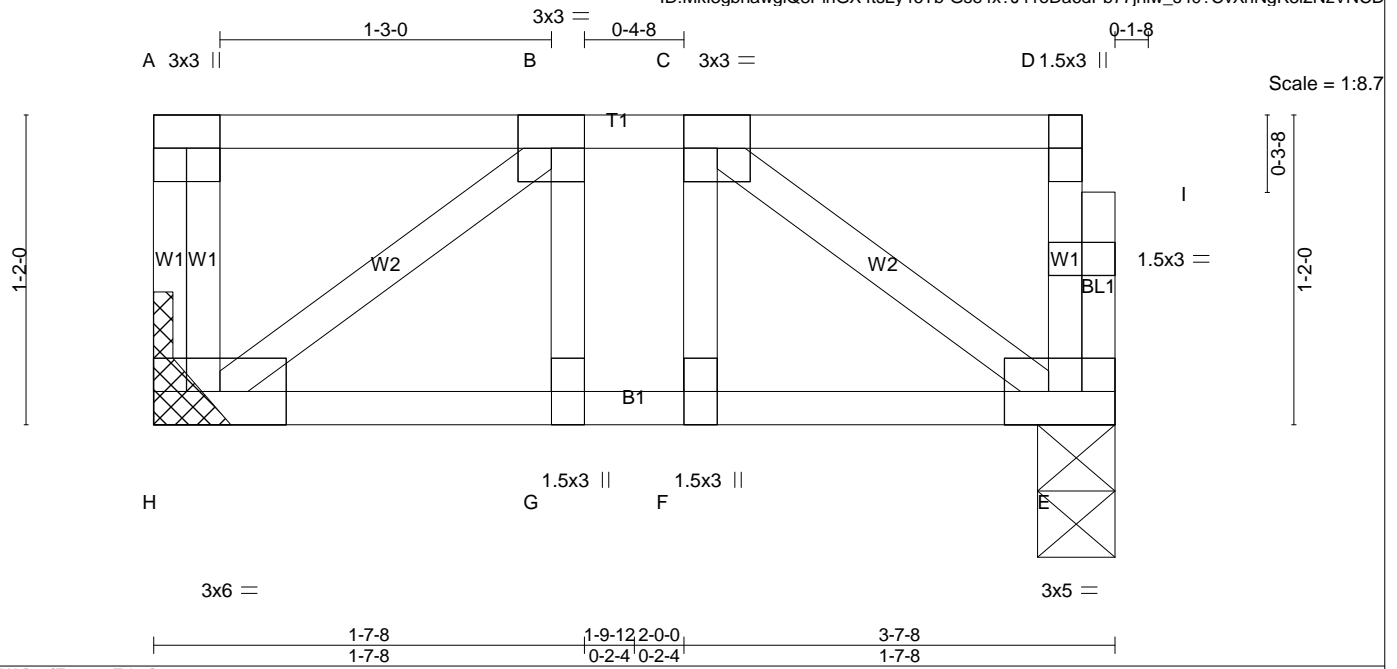


Plate Offsets (X,Y)-- [E:0-2-0,Edge]

<b>LOADING</b> (psf)	<b>SPACING-</b> 2-0-0	<b>CSI.</b>	<b>DEFL.</b> in (loc) l/defl L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 40.0	Plate Grip DOL 1.00	TC 0.15	Vert(LL) -0.00 G >999 480	MT20	244/190
TCDL 20.0	Lumber DOL 1.00	BC 0.08	Vert(TL) -0.00 G >999 360		
BCLL 0.0	Rep Stress Incr YES	WB 0.06	Horz(TL) 0.00 E n/a n/a		
BCDL 5.0	Code IRC2009/TPI2007	(Matrix)			
				Weight: 23 lb	FT = 4%F, 1%E

**LUMBER-**  
TOP CHORD 2x4 SP No.2(flat)  
BOT CHORD 2x4 SP No.2(flat)  
WEBS 2x4 SP No.3(flat)

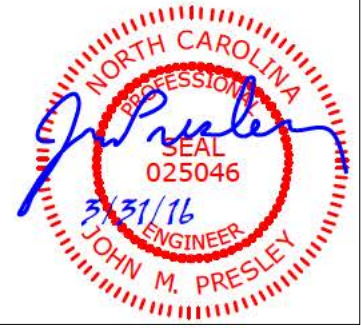
**BRACING-**  
TOP CHORD 2-0-0 oc purlins: A-D, except end verticals.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** (lb/size) H=219/Mechanical, E=212/0-3-8

**FORCES.** (lb) - Maximum Compression/Maximum Tension  
TOP CHORD A-H=-76/0, E-I=-73/0, D-I=-73/0, A-B=0/0, B-C=-192/0, C-D=-4/0  
BOT CHORD G-H=0/192, F-G=0/192, E-F=0/192  
WEBS B-H=-237/0, B-G=-25/41, C-E=-232/0, C-F=-21/45

**NOTES-**  
1) Unbalanced floor live loads have been considered for this design.  
2) This truss is designed in accordance with the 2009 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.  
3) "Semi-rigid pitchbreaks with fixed heels" Member end fixity model was used in the analysis and design of this truss.  
4) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.  
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.  
6) CAUTION, Do not erect truss backwards.

**LOAD CASE(S)** Standard



Job 66010669	Truss FT4	Truss Type Floor	Qty 2	Ply 1	THE SULLIVAN EUROPEAN LH
UFP Mid Atlantic LLC, Burlington, NC, MJUDD					Job Reference (optional) 7.640 s Nov 10 2015 MiTek Industries, Inc. Thu Mar 31 16:39:13 2016 Page 1
ID:Mkl3gbnawglQ8PlnGX4tsLy46Tb-k2CS9LKio6LRkm_ohrE0E7WtqQCqemDXv5qGaqzVNCC					

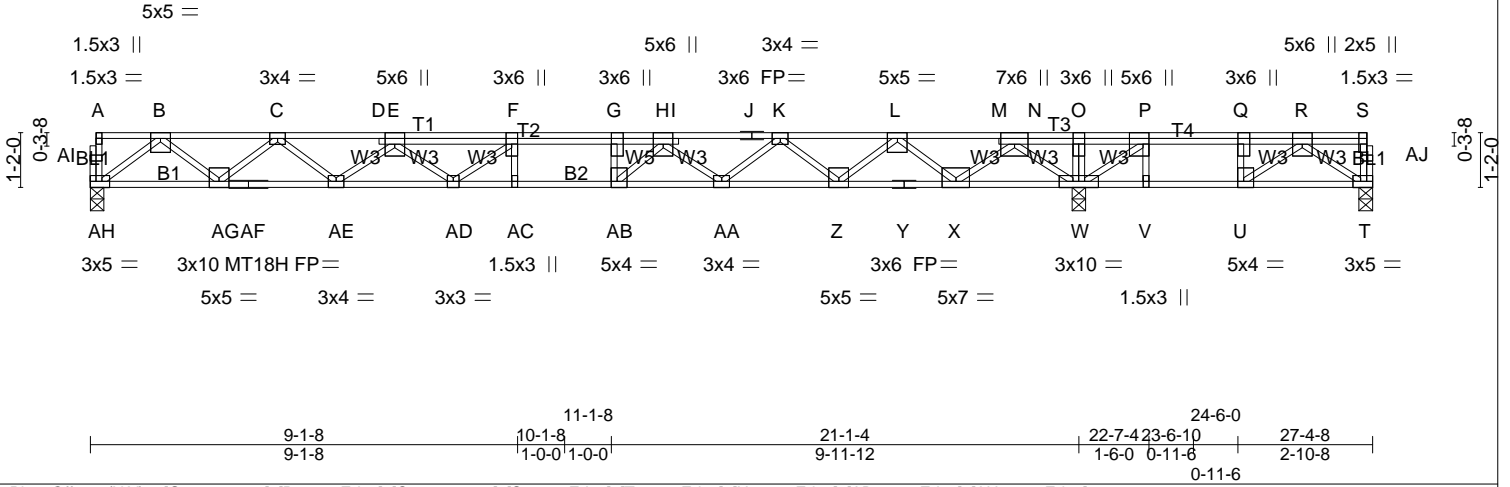


Plate Offsets (X,Y)-- [G:0-3-0,0-0-0], [P:0-3-0,Edge], [Q:0-3-0,0-0-0], [S:0-3-0,Edge], [T:0-2-0,Edge], [U:0-1-8,Edge], [AB:0-1-8,Edge], [AH:0-2-0,Edge]

<b>LOADING</b> (psf)	<b>SPACING-</b>	<b>CSI.</b>	<b>DEFL.</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL 40.0	2-0-0	TC 0.79	in (loc) l/defl L/d	MT20	244/190
TCDL 20.0	Plate Grip DOL 1.00	BC 0.70	Vert(LL) -0.33 AC >753 480	MT18H	244/190
BCLL 0.0	Lumber DOL 1.00	WB 0.93	Vert(TL) -0.65 AC >390 360		
BCDL 5.0	Rep Stress Incr YES	(Matrix)	Horz(TL) 0.09 W n/a n/a		
	Code IRC2009/TPI2007			Weight: 154 lb	FT = 4%F, 1%E

**LUMBER-**  
TOP CHORD 2x4 SP SS(flat)  
BOT CHORD 2x4 SP SS(flat)  
WEBS 2x4 SP No.3(flat)

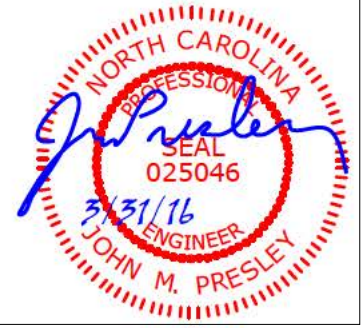
**BRACING-**  
TOP CHORD 2-0-0 oc purlins (6-0-0 max.): A-S, except end verticals.  
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

**REACTIONS.** (lb/size) AH=1177/0-3-8, T=-218/0-3-8, W=2552/0-3-8  
Max UpliftT=464(LC 2)  
Max GravAH=1179(LC 7), T=162(LC 3), W=2552(LC 1)

**FORCES.** (lb) - Maximum Compression/Maximum Tension  
TOP CHORD AH-AI=-40/0, A-AI=-40/0, T-AJ=-28/71, S-AJ=-28/71, A-B=-2/0, B-C=-2511/0, C-D=-4181/0, D-E=-4145/0, E-F=-5186/0, F-G=-5421/0, G-H=-5421/0, H-I=-4007/0, I-J=-4045/0, J-K=-4045/0, K-L=-2334/0, L-M=-7/290, M-N=-36/277, N-O=-0/3895, O-P=-0/3895, P-Q=0/2078, Q-R=0/2078, R-S=-2/5  
BOT CHORD AG-AH=0/1488, AF-AG=0/3497, AE-AF=0/3497, AD-AE=0/4889, AC-AD=0/5421, AB-AC=0/5421, AA-AB=0/4769, Z-AA=0/3357, Y-Z=0/1279, X-Y=0/1279, W-X=-1757/0, V-W=-2078/0, U-V=-2078/0, T-U=612/154  
WEBS F-AC=-88/31, G-AB=-714/0, O-W=0/435, B-AH=-1864/0, B-AG=0/1331, C-AG=-1284/0, C-AE=0/890, E-AE=-899/0, E-AD=0/573, F-AD=-568/39, N-W=-2635/0, N-X=0/1961, L-X=-1845/0, L-Z=0/1381, K-Z=-1338/0, K-AA=0/902, H-AA=-928/0, H-AB=0/1183, R-T=-186/745, R-U=-1830/0, Q-U=0/1003, P-W=-2566/0, P-V=0/191

- NOTES-**
- 1) Unbalanced floor live loads have been considered for this design.
  - 2) All plates are MT20 plates unless otherwise indicated.
  - 3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 464 lb uplift at joint T.
  - 4) This truss is designed in accordance with the 2009 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
  - 5) "Semi-rigid pitchbreaks with fixed heels" Member end fixity model was used in the analysis and design of this truss.
  - 6) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
  - 7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
  - 8) CAUTION, Do not erect truss backwards.

**LOAD CASE(S)** Standard



Job 66010669	Truss FT5	Truss Type Floor	Qty 1	Ply 1	THE SULLIVAN EUROPEAN LH
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UFP Mid Atlantic LLC, Burlington, NC, MJUDD

Job Reference (optional)

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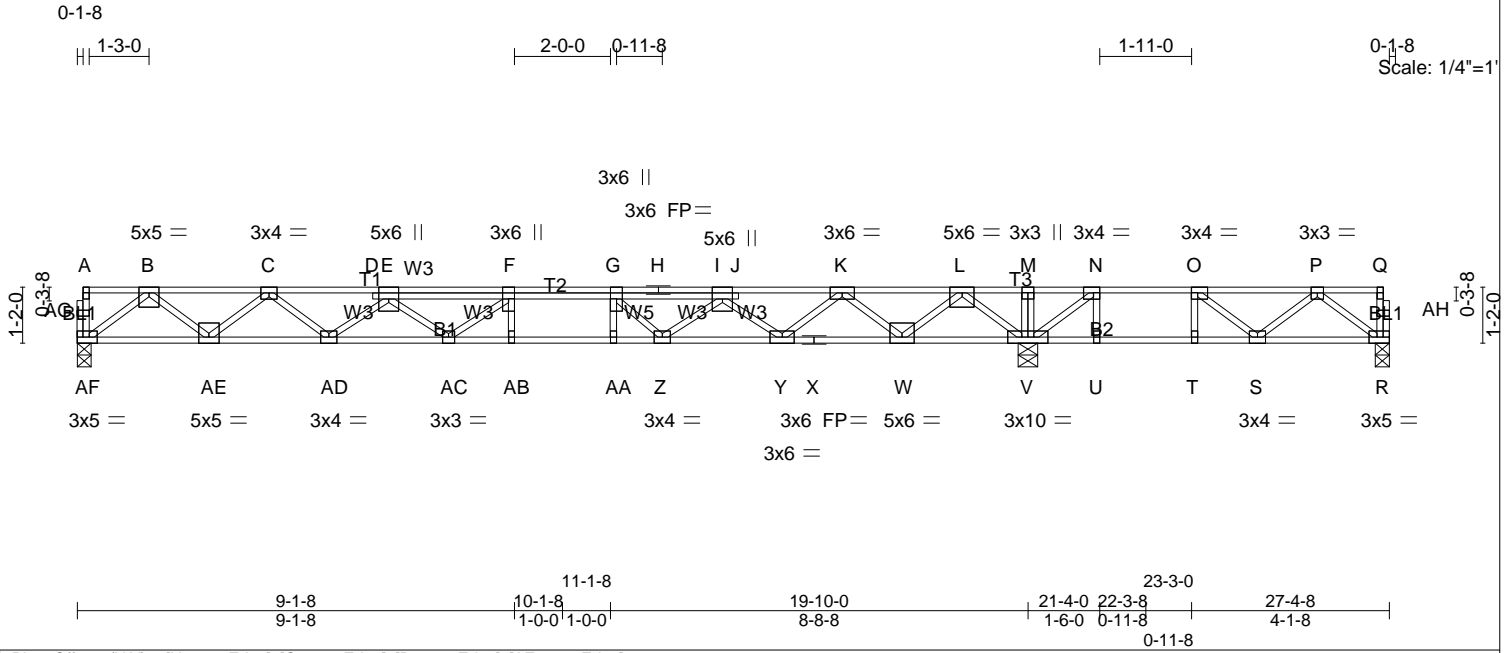


Plate Offsets (X,Y)-- [N:0-1-8,Edge], [O:0-1-8,Edge], [R:0-2-0,Edge], [AF:0-2-0,Edge]

<b>LOADING</b> (psf) TCLL 40.0 TCDL 20.0 BCLL 0.0 BCDL 5.0	<b>SPACING-</b> Plate Grip DOL 1.00 Lumber DOL 1.00 Rep Stress Incr YES Code IRC2009/TPI2007	<b>CSI.</b> TC 0.92 BC 0.76 WB 0.80 (Matrix)	<b>DEFL.</b> in (loc) l/defl L/d Vert(LL) -0.31 AB >762 480 Vert(TL) -0.60 AB >395 360 Horz(TL) 0.10 V n/a n/a	<b>PLATES</b> MT20 <b>GRIP</b> 244/190  Weight: 146 lb FT = 4%F, 1%E
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**LUMBER-**  
TOP CHORD 2x4 SP SS(flat)  
BOT CHORD 2x4 SP SS(flat)  
WEBS 2x4 SP No.3(flat)

**BRACING-**  
TOP CHORD 2-0-0 oc purlins (2-2-0 max.): A-Q, except end verticals.  
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

**REACTIONS.** (lb/size) AF=1177/0-3-8, R=217/0-3-8, V=2117/0-4-15  
Max UpliftR=108(LC 2)  
Max GravAF=1180(LC 7), R=409(LC 3), V=2117(LC 1)

**FORCES.** (lb) - Maximum Compression/Maximum Tension  
TOP CHORD AF-AG=-40/0, A-AG=-40/0, R-AH=-14/25, Q-AH=-14/25, A-B=-2/0, B-C=-2512/0, C-D=-4184/0, D-E=-4148/0, E-F=-5191/0, F-G=-5425/0, G-H=-4882/0, H-I=-4882/0, I-J=-3295/0, J-K=-3320/0, K-L=-1226/0, L-M=0/2118, M-N=0/2118, N-O=-432/1087, O-P=-569/455, P-Q=-1/2  
BOT CHORD AE-AF=0/1489, AD-AE=0/3500, AC-AD=0/4893, AB-AC=0/5425, AA-AB=0/5425, Z-AA=0/5425, Y-Z=0/4234, X-Y=0/2438, W-X=0/2438, V-W=-323/180, U-V=-1087/432, T-U=-1087/432, S-T=-1087/432, R-S=-109/517  
WEBS F-AB=-107/47, G-AA=-31/147, M-V=0/155, B-AF=-1865/0, B-AE=0/1332, C-AE=-1285/0, C-AD=0/891, E-AD=-900/0, E-AC=0/574, F-AC=-581/30, L-V=-2255/0, L-W=0/1671, K-W=-1608/0, K-Y=0/1170, I-Y=-1181/0, I-Z=0/924, G-Z=905/0, P-R=648/135, P-S=-450/68, O-S=0/807, O-T=-444/0, N-V=-1738/0, N-U=0/443

- NOTES-**
- 1) Unbalanced floor live loads have been considered for this design.
  - 2) All plates are 1.5x3 MT20 unless otherwise indicated.
  - 3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 108 lb uplift at joint R.
  - 4) This truss is designed in accordance with the 2009 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
  - 5) "Semi-rigid pitchbreaks with fixed heels" Member end fixity model was used in the analysis and design of this truss.
  - 6) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
  - 7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
  - 8) CAUTION, Do not erect truss backwards.

**LOAD CASE(S)** Standard



This truss is to be fabricated per ANSI/TPI quality requirements. Plates shall be of size and type shown and centered at joints unless otherwise noted. This design is based upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of the Building Designer. Building Designer shall verify all design information on this sheet for conformance with conditions and requirements of the specific building and governing codes and ordinances. Building Designer accepts responsibility for the correctness and accuracy of the design information as it may relate to a specific building. Certification is valid only when truss is fabricated by a UFP company. Bracing shown is for lateral support of truss members only and does not replace erection and permanent bracing. Refer to Building Component Safety Information (BCSI) for general guidance regarding storage, delivery, erection and bracing available from SBCA and Truss Plate Institute.



Job 66010669	Truss FT6	Truss Type Floor	Qty 1	Ply 1	THE SULLIVAN EUROPEAN LH
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UFP Mid Atlantic LLC, Burlington, NC, MJUDD

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ID:Mkl3gbnawgIQ8PlnGX4tsLy46Tb-gQKDZ1MyJc9z48AoGHUKYcFrDuK5mTqMPJMeizVNCA

0-1-8

0-1-8

Scale: 1/4"=1'

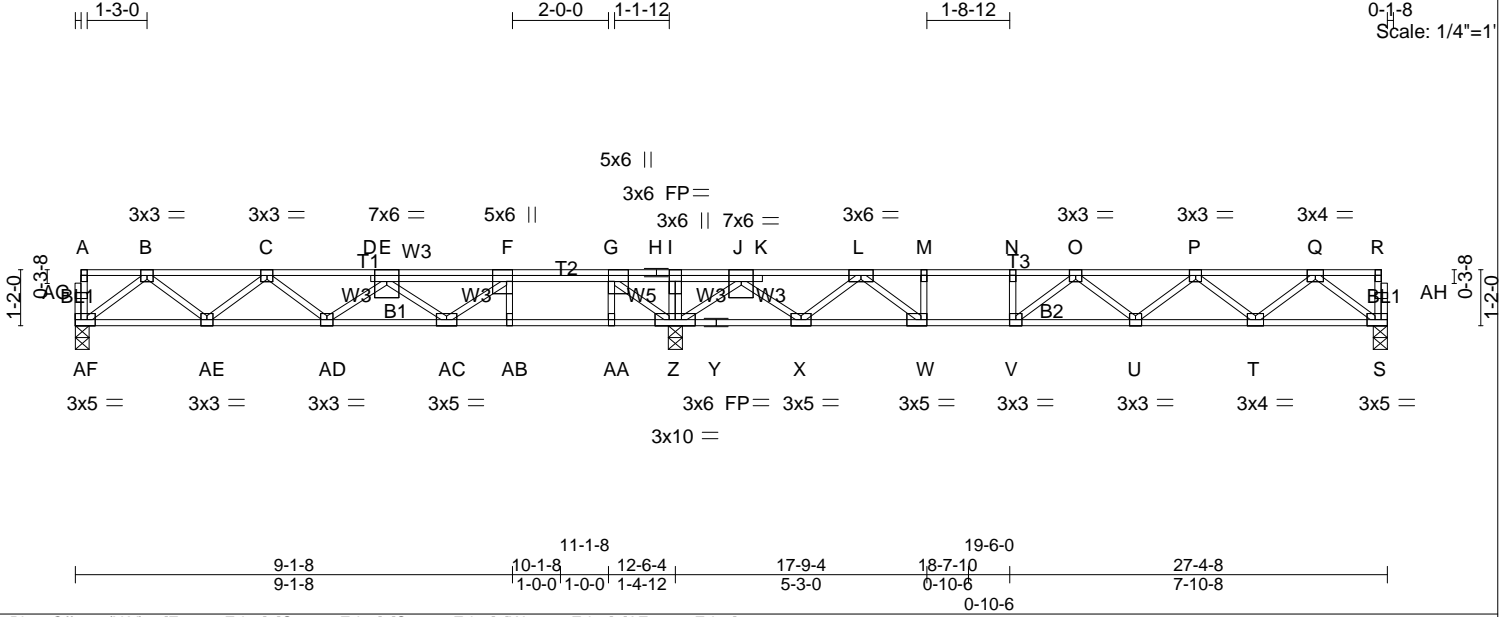


Plate Offsets (X,Y)-- [F:0-3-0,Edge], [G:0-3-0,Edge], [S:0-2-0,Edge], [W:0-1-8,Edge], [AF:0-2-0,Edge]

<b>LOADING</b> (psf)	<b>SPACING-</b>	<b>CSI.</b>	<b>DEFL.</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL 40.0	2-0-0	TC 0.63	in (loc) l/defl L/d	MT20	244/190
TCDL 20.0	Plate Grip DOL 1.00	BC 0.63	Vert(LL) -0.17 U-V >999 480		
BCLL 0.0	Lumber DOL 1.00	WB 0.57	Vert(TL) -0.33 U-V >528 360		
BCDL 5.0	Rep Stress Incr YES	(Matrix)	Horz(TL) 0.05 S n/a n/a		
	Code IRC2009/TPI2007				
				Weight: 146 lb	FT = 4%F, 1%E

**LUMBER-**  
TOP CHORD 2x4 SP SS(flat)  
BOT CHORD 2x4 SP SS(flat)  
WEBS 2x4 SP No.3(flat)

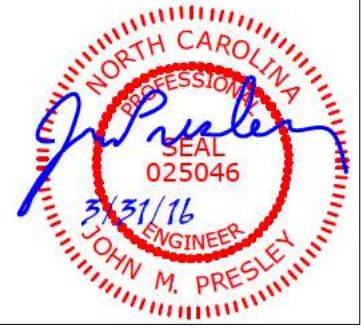
**BRACING-**  
TOP CHORD 2-0-0 oc purlins (6-0-0 max.): A-R, except end verticals.  
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

**REACTIONS.** (lb/size) AF=676/0-3-8, Z=1989/0-3-8, S=846/0-3-8  
Max GravAF=737(LC 2), Z=1989(LC 1), S=858(LC 3)

**FORCES.** (lb) - Maximum Compression/Maximum Tension  
TOP CHORD AF-AG=-38/0, A-AG=-38/0, S-AH=-45/0, R-AH=-45/0, A-B=-2/0, B-C=-1402/0, C-D=-2015/0, D-E=-2012/0, E-F=-1689/17, F-G=-979/474, G-H=0/1592, H-I=0/1592, I-J=0/1591, J-K=-886/0, K-L=-867/0, L-M=-2491/0, M-N=-2491/0, N-O=-2491/0, O-P=-2610/0, P-Q=-1707/0, Q-R=-3/0  
BOT CHORD AE-AF=0/909, AD-AE=0/1856, AC-AD=0/2176, AB-AC=-474/979, AA-AB=-474/979, Z-AA=-474/979, Y-Z=-219/22, X-Y=-219/22, W-X=0/1698, V-W=0/2491, U-V=0/2779, T-U=0/2341, S-T=0/1057  
WEBS F-AB=-241/0, G-AA=0/249, I-Z=0/484, B-AF=-1138/0, B-AE=0/642, C-AE=-591/0, C-AD=40/207, E-AD=-204/68, E-AC=-764/0, F-AC=0/1057, G-Z=-2427/0, Q-S=-1323/0, Q-T=0/845, P-T=-825/0, P-U=0/350, O-U=-220/0, O-V=-513/11, N-V=-41/160, J-Z=-1799/0, J-X=0/1096, L-X=-1099/0, L-W=0/1108, M-W=-490/0

- NOTES-**
- 1) Unbalanced floor live loads have been considered for this design.
  - 2) All plates are 1.5x3 MT20 unless otherwise indicated.
  - 3) This truss is designed in accordance with the 2009 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
  - 4) "Semi-rigid pitchbreaks with fixed heels" Member end fixity model was used in the analysis and design of this truss.
  - 5) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
  - 6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
  - 7) CAUTION, Do not erect truss backwards.

**LOAD CASE(S)** Standard



This truss is to be fabricated per ANSI/TPI quality requirements. Plates shall be of size and type shown and centered at joints unless otherwise noted. This design is based upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of the Building Designer. Building Designer shall verify all design information on this sheet for conformance with conditions and requirements of the specific building and governing codes and ordinances. Building Designer accepts responsibility for the correctness or accuracy of the design information as it may relate to a specific building. Certification is valid only when truss is fabricated by a UFP company. Bracing shown is for lateral support of truss members only and does not replace erection and permanent bracing. Refer to Building Component Safety Information (BCSI) for general guidance regarding storage, delivery, erection and bracing available from SBCA and Truss Plate Institute.



Job 66010669	Truss FT6A	Truss Type Floor	Qty 1	Ply 1	THE SULLIVAN EUROPEAN LH
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UFP Mid Atlantic LLC, Burlington, NC, MJUDD  
 7.640 s Nov 10 2015 MITek Industries, Inc. Thu Mar 31 16:39:16 2016 Page 1  
 ID:Mkl3gbnawglQ8PlnGX4tsLy46Tb-9dubrnNm41k0bEjNMz0jsm8QmdGeqDnz33wB9zVNC9

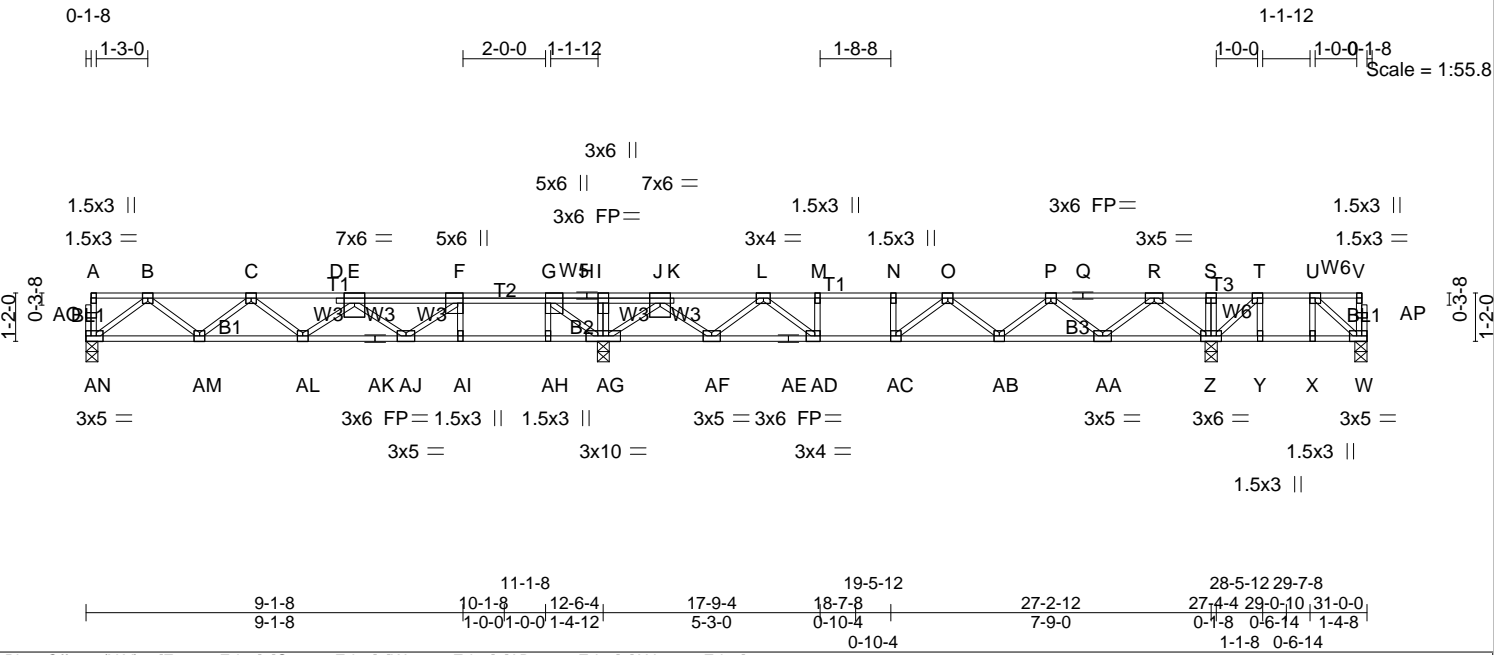


Plate Offsets (X,Y)-- [F:0-3-0,Edge], [G:0-3-0,Edge], [W:0-2-0,Edge], [AD:0-1-8,Edge], [AN:0-2-0,Edge]

<b>LOADING</b> (psf) TCLL 40.0 TCDL 20.0 BCLL 0.0 BCDL 5.0	<b>SPACING-</b> Plate Grip DOL 1.00 Lumber DOL 1.00 Rep Stress Incr YES Code IRC2009/TP12007	<b>CSI.</b> TC 0.62 BC 0.50 WB 0.56 (Matrix)	<b>DEFL.</b> in (loc) l/defl L/d Vert(LL) -0.14 AI-AJ >999 480 Vert(TL) -0.27 AI-AJ >550 360 Horz(TL) 0.04 Z n/a n/a	<b>PLATES</b> MT20 <b>GRIP</b> 244/190 Weight: 167 lb FT = 4%F, 1%E
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**LUMBER-**  
 TOP CHORD 2x4 SP SS(flat)  
 BOT CHORD 2x4 SP SS(flat)  
 WEBS 2x4 SP No.3(flat)

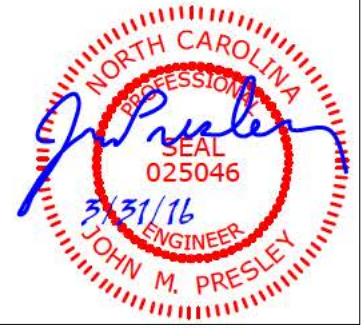
**BRACING-**  
 TOP CHORD 2-0-0 oc purlins (6-0-0 max.): A-V, except end verticals.  
 BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

**REACTIONS.** (lb/size) AG=1894/0-3-8, AN=683/0-3-8, W=97/0-3-8, Z=1503/0-3-8  
 Max UpliftW=-237(LC 5)  
 Max GravAG=1897(LC 11), AN=740(LC 4), W=104(LC 4), Z=1518(LC 3)

**FORCES.** (lb) - Maximum Compression/Maximum Tension  
 TOP CHORD AN-AO=38/0, A-AO=38/0, W-AP=148/0, V-AP=148/0, A-B=2/0, B-C=-1408/0, C-D=-2033/0, D-E=-2037/0, E-F=-1715/0, F-G=-1005/406, G-H=0/1513, H-I=0/1513, I-J=0/1511, J-K=-755/0, K-L=-734/0, L-M=-2054/0, M-N=-2054/0, N-O=-2054/0, O-P=-1873/0, P-Q=-782/0, Q-R=-782/0, R-S=0/1180, S-T=0/1180, T-U=0/492, U-V=-9/0  
 BOT CHORD AM-AN=0/913, AL-AM=0/1865, AK-AL=0/2204, AJ-AK=0/2204, AI-AJ=-406/1005, AH-AI=-406/1005, AG-AH=-406/1005, AF-AG=-239/0, AE-AF=0/1451, AD-AE=0/1451, AC-AD=0/2054, AB-AC=0/2159, AA-AB=0/1512, Z-AA=-28/44, Y-Z=-492/0, X-Y=-492/0, W-X=-492/0  
 WEBS F-AJ=238/0, G-AH=0/249, I-AG=0/474, S-Z=45/44, B-AN=-1143/0, B-AM=0/644, C-AM=-594/0, C-AL=-27/220, E-AL=-217/54, E-AJ=-757/0, F-AJ=0/1047, G-AG=-2409/0, R-Z=-1481/0, R-AA=0/984, P-AA=-953/0, P-AB=0/471, O-AB=-373/0, O-AC=-286/130, N-AC=-88/69, J-AG=-1648/0, J-AF=0/982, L-AF=-957/0, L-AD=0/871, M-AD=-393/0, U-W=0/663, U-X=-239/0, T-Z=-1035/0, T-Y=0/267

- NOTES-**
- 1) Unbalanced floor live loads have been considered for this design.
  - 2) All plates are 3x3 MT20 unless otherwise indicated.
  - 3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 237 lb uplift at joint W.
  - 4) This truss is designed in accordance with the 2009 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TP1.
  - 5) "Semi-rigid pitchbreaks with fixed heels" Member end fixity model was used in the analysis and design of this truss.
  - 6) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
  - 7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
  - 8) CAUTION, Do not erect truss backwards.

**LOAD CASE(S)** Standard



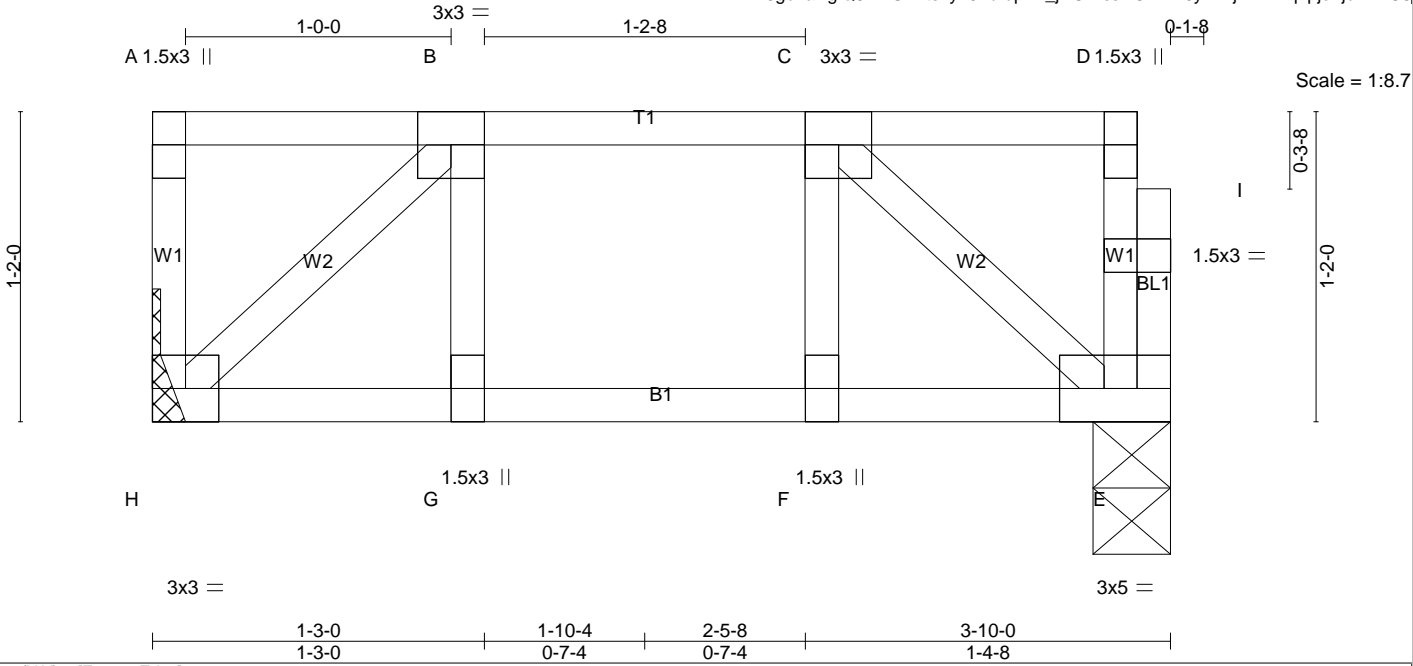


Plate Offsets (X,Y)-- [E:0-2-0,Edge]

<b>LOADING</b> (psf)	<b>SPACING-</b> 2-0-0	<b>CSI.</b>	<b>DEFL.</b> in (loc) l/defl L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 40.0	Plate Grip DOL 1.00	TC 0.10	Vert(LL) -0.00 F >999 480	MT20	244/190
TCDL 20.0	Lumber DOL 1.00	BC 0.09	Vert(TL) -0.00 F >999 360		
BCLL 0.0	Rep Stress Incr YES	WB 0.06	Horz(TL) 0.00 E n/a n/a		
BCDL 5.0	Code IRC2009/TPI2007	(Matrix)			
				Weight: 22 lb	FT = 4%F, 1%E

**LUMBER-**  
 TOP CHORD 2x4 SP No.2(flat)  
 BOT CHORD 2x4 SP No.2(flat)  
 WEBS 2x4 SP No.3(flat)

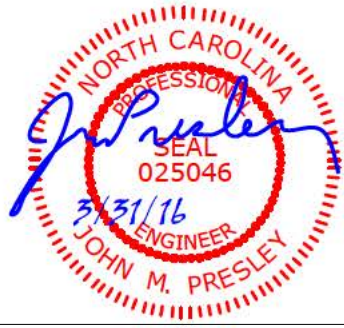
**BRACING-**  
 TOP CHORD Structural wood sheathing directly applied or 3-10-0 oc purlins, except end verticals.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** (lb/size) E=230/0-3-8, H=237/Mechanical

**FORCES.** (lb) - Maximum Compression/Maximum Tension  
 TOP CHORD A-H=-56/0, E-I=-58/0, D-I=-58/0, A-B=0/0, B-C=-196/0, C-D=-3/0  
 BOT CHORD G-H=0/196, F-G=0/196, E-F=0/196  
 WEBS B-H=-267/0, B-G=-1/31, C-E=-256/0, C-F=-5/26

- NOTES-**
- 1) Unbalanced floor live loads have been considered for this design.
  - 2) This truss is designed in accordance with the 2009 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
  - 3) "Semi-rigid pitchbreaks with fixed heels" Member end fixity model was used in the analysis and design of this truss.
  - 4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
  - 5) CAUTION, Do not erect truss backwards.

**LOAD CASE(S)** Standard





Job 66010669	Truss FT8	Truss Type Floor	Qty 9	Ply 1	THE SULLIVAN EUROPEAN LH
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UFP Mid Atlantic LLC, Burlington, NC, MJUDD

Job Reference (optional)

7,640 s Nov 10 2015 MiTek Industries, Inc. Thu Mar 31 16:39:18 2016 Page 1  
ID:Mk13gbnawglQ8PInGX4tsLy46Tb-5??LC3Orce\_jqYtIUOqBxBEmaruNI9jG2NY0F1zVNC7

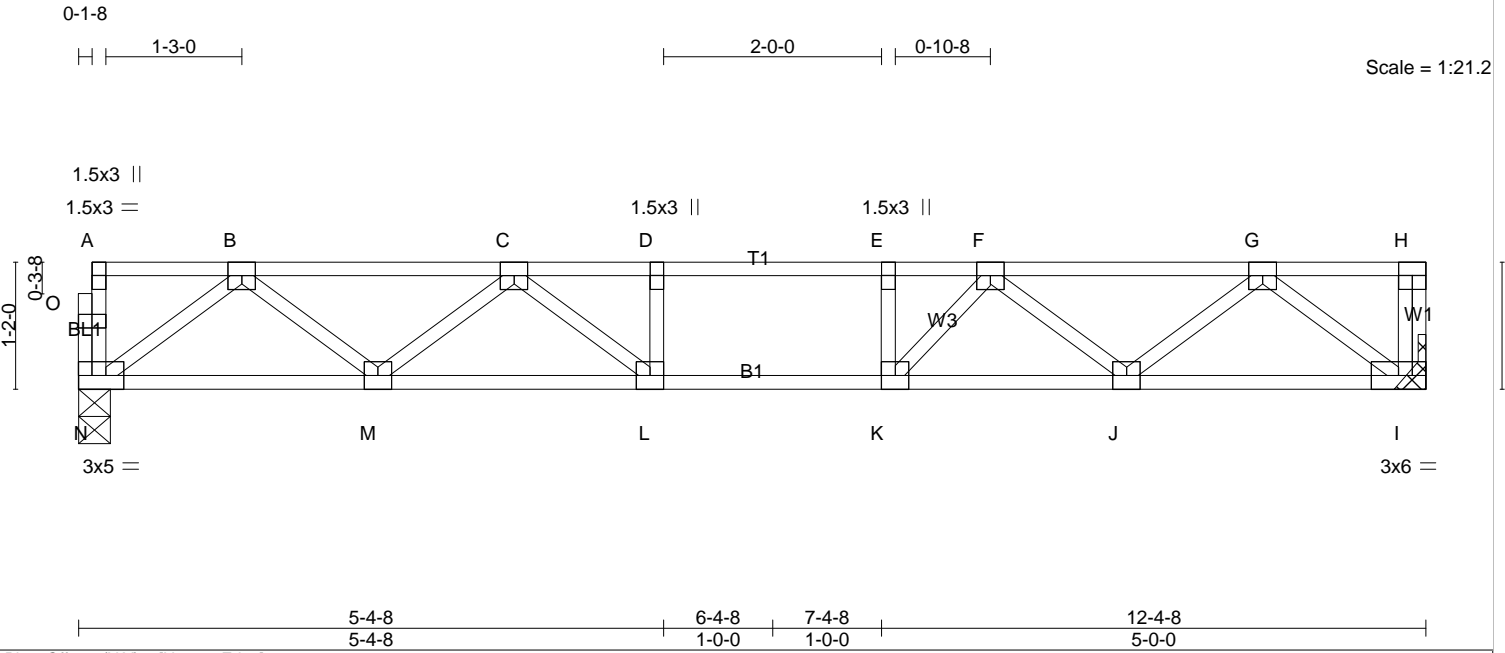


Plate Offsets (X,Y)-- [N:0-2-0,Edge]

<b>LOADING</b> (psf)	<b>SPACING-</b> 2-0-0	<b>CSI.</b>	<b>DEFL.</b> in (loc) l/defl L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 40.0	Plate Grip DOL 1.00	TC 0.60	Vert(LL) -0.10 L-M >999 480	MT20	244/190
TCDL 20.0	Lumber DOL 1.00	BC 0.74	Vert(TL) -0.18 L-M >805 360		
BCLL 0.0	Rep Stress Incr YES	WB 0.34	Horz(TL) 0.04 I n/a n/a		
BCDL 5.0	Code IRC2009/TPI2007	(Matrix)			
				Weight: 63 lb	FT = 4%F, 1%E

**LUMBER-**  
TOP CHORD 2x4 SP No.2(flat)  
BOT CHORD 2x4 SP No.2(flat)  
WEBS 2x4 SP No.3(flat)

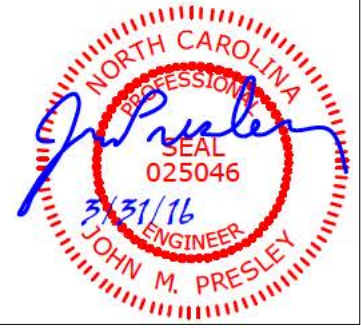
**BRACING-**  
TOP CHORD 2-0-0 oc purlins (6-0-0 max.): A-H, except end verticals.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** (lb/size) N=781/0-3-8, I=788/Mechanical

**FORCES.** (lb) - Maximum Compression/Maximum Tension  
TOP CHORD N-O=-43/0, A-O=-42/0, H-I=-46/0, A-B=-3/0, B-C=-1516/0, C-D=-2244/0, D-E=-2244/0, E-F=-2244/0, F-G=-1510/0, G-H=0/0  
BOT CHORD M-N=0/965, L-M=0/2026, K-L=0/2244, J-K=0/2031, I-J=0/964  
WEBS D-L=-242/0, E-K=-311/0, B-N=-1207/0, B-M=0/718, C-M=-664/0, C-L=0/486, G-I=-1209/0, G-J=0/710, F-J=-679/0, F-K=0/530

- NOTES-**
- 1) Unbalanced floor live loads have been considered for this design.
  - 2) All plates are 3x3 MT20 unless otherwise indicated.
  - 3) This truss is designed in accordance with the 2009 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
  - 4) "Semi-rigid pitchbreaks with fixed heels" Member end fixity model was used in the analysis and design of this truss.
  - 5) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
  - 6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
  - 7) CAUTION, Do not erect truss backwards.

**LOAD CASE(S)** Standard



This truss is to be fabricated per ANSI/TPI quality requirements. Plates shall be of size and type shown and centered at joints unless otherwise noted. This design is based upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of the Building Designer. Building Designer shall verify all design information on this sheet for conformance with conditions and requirements of the specific building and governing codes and ordinances. Building Designer accepts responsibility for the correctness or accuracy of the design information as it may relate to a specific building. Certification is valid only when truss is fabricated by a UFP company. Bracing shown is for lateral support of truss members only and does not replace erection and permanent bracing. Refer to Building Component Safety Information (BCSI) for general guidance regarding storage, delivery, erection and bracing available from SBCA and Truss Plate Institute.



Job 66010669	Truss FT9	Truss Type Floor	Qty 9	Ply 1	THE SULLIVAN EUROPEAN LH
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UFP Mid Atlantic LLC, Burlington, NC, MJUDD  
 7.640 s Nov 10 2015 MiTek Industries, Inc. Thu Mar 31 16:39:19 2016 Page 1  
 ID:Mk13gbnawglQ8PlnGX4tsLy46Tb-ZCZJPPPTNy6aShSy16LQUOmueqAr1YZPH1HanTzVNC6

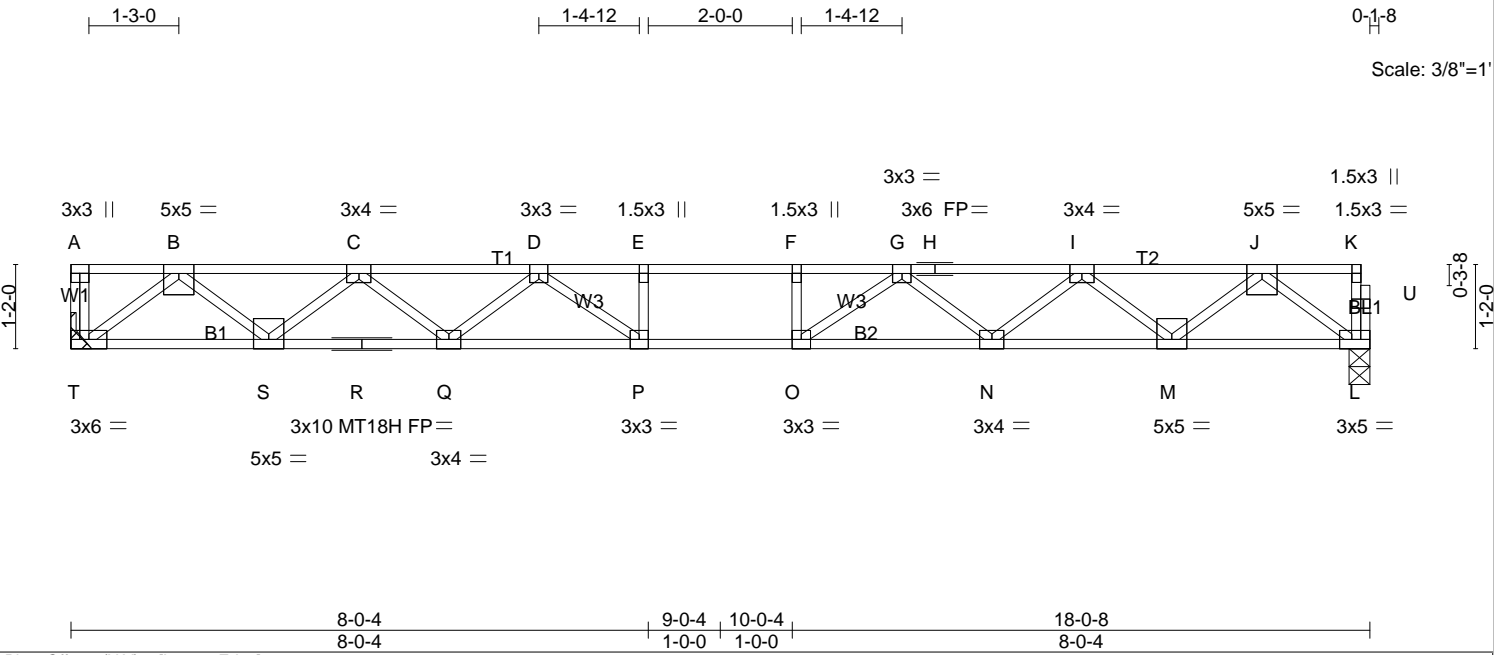


Plate Offsets (X,Y)-- [L:0-2-0,Edge]

<b>LOADING</b> (psf)	<b>SPACING-</b> 2-0-0	<b>CSI.</b>	<b>DEFL.</b> in (loc) l/defl L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 40.0	Plate Grip DOL 1.00	TC 0.77	Vert(LL) -0.29 O-P >726 480	MT20	244/190
TCDL 20.0	Lumber DOL 1.00	BC 0.98	Vert(TL) -0.57 O-P >375 360	MT18H	244/190
BCLL 0.0	Rep Stress Incr YES	WB 0.62	Horz(TL) 0.10 L n/a n/a		
BCDL 5.0	Code IRC2009/TP12007	(Matrix)			
				Weight: 89 lb	FT = 4%F, 1%E

**LUMBER-**  
 TOP CHORD 2x4 SP No.1(flat)  
 BOT CHORD 2x4 SP No.1(flat)  
 WEBS 2x4 SP No.3(flat)

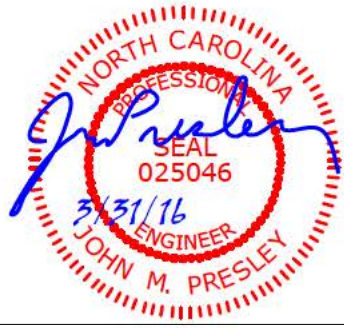
**BRACING-**  
 TOP CHORD 2-0-0 oc purlins (5-2-0 max.): A-K, except end verticals.  
 BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.

**REACTIONS.** (lb/size) T=1156/Mechanical, L=1149/0-3-8

**FORCES.** (lb) - Maximum Compression/Maximum Tension  
 TOP CHORD A-T=-52/0, L-U=-47/0, K-U=-47/0, A-B=0/0, B-C=-2444/0, C-D=-4000/0, D-E=-4880/0, E-F=-4880/0, F-G=-4880/0, G-H=-4000/0, H-I=-4000/0, I-J=-2443/0, J-K=-3/0  
 BOT CHORD S-T=0/1441, R-S=0/3414, Q-R=0/3414, P-Q=0/4556, O-P=0/4880, N-O=0/4556, M-N=0/3414, L-M=0/1440  
 WEBS E-P=-321/0, F-O=-321/0, B-T=-1808/0, B-S=0/1306, C-S=-1263/0, C-Q=0/763, D-Q=-723/0, D-P=-7/740, J-L=-1803/0, J-M=0/1306, I-M=-1264/0, I-N=0/763, G-N=-723/0, G-O=-7/740

- NOTES-**
- 1) Unbalanced floor live loads have been considered for this design.
  - 2) All plates are MT20 plates unless otherwise indicated.
  - 3) This truss is designed in accordance with the 2009 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
  - 4) "Semi-rigid pitchbreaks with fixed heels" Member end fixity model was used in the analysis and design of this truss.
  - 5) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
  - 6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
  - 7) CAUTION, Do not erect truss backwards.

**LOAD CASE(S)** Standard



Job 66010669	Truss FT10	Truss Type Floor	Qty 1	Ply 1	THE SULLIVAN EUROPEAN LH
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UFP Mid Atlantic LLC, Burlington, NC, MJUDD  
 7.640 s Nov 10 2015 MiTek Industries, Inc. Thu Mar 31 16:39:19 2016 Page 1  
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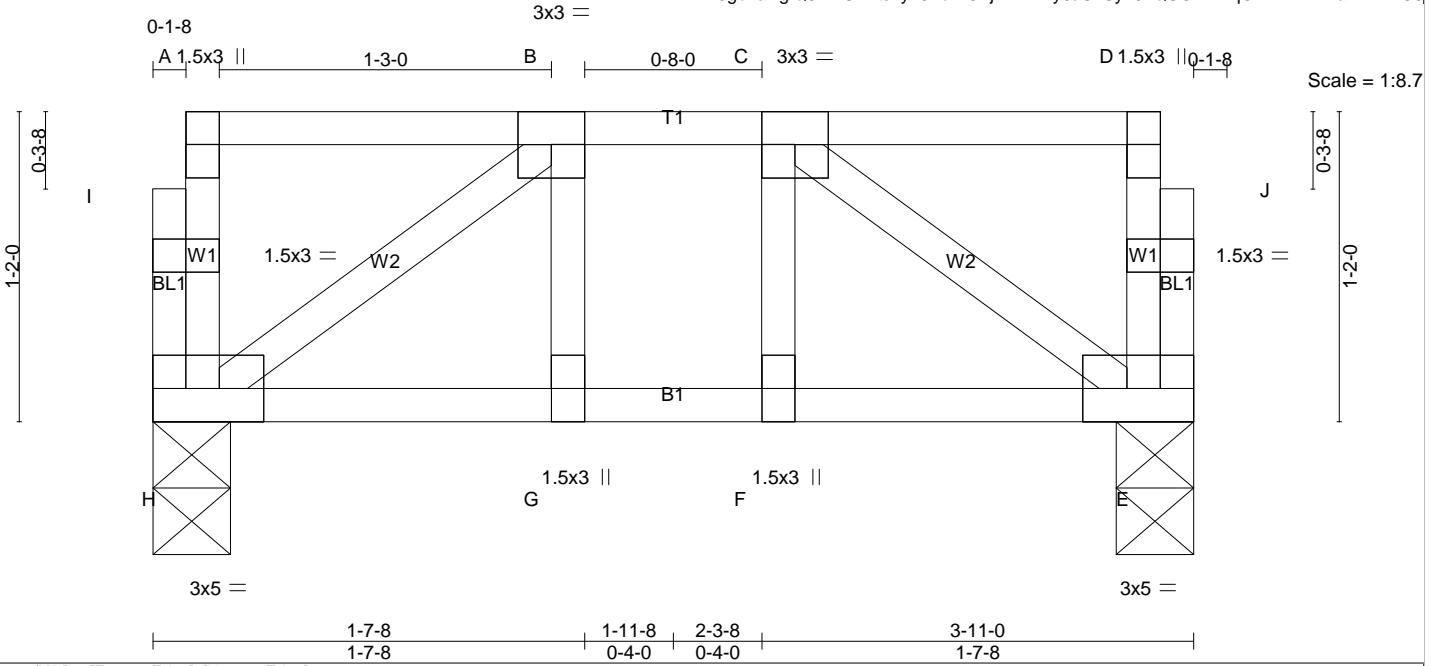


Plate Offsets (X,Y)-- [E:0-2-0,Edge], [H:0-2-0,Edge]

<b>LOADING</b> (psf) TCLL 40.0 TCDL 20.0 BCLL 0.0 BCDL 5.0	<b>SPACING-</b> 2-0-0 Plate Grip DOL 1.00 Lumber DOL 1.00 Rep Stress Incr YES Code IRC2009/TPI2007	<b>CSI.</b> TC 0.14 BC 0.09 WB 0.06 (Matrix)	<b>DEFL.</b> in (loc) l/defl L/d Vert(LL) -0.00 G >999 480 Vert(TL) -0.01 G >999 360 Horz(TL) 0.00 E n/a n/a	<b>PLATES GRIP</b> MT20 244/190  Weight: 24 lb FT = 4%F, 1%E
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**LUMBER-**  
 TOP CHORD 2x4 SP No.2(flat)  
 BOT CHORD 2x4 SP No.2(flat)  
 WEBS 2x4 SP No.3(flat)

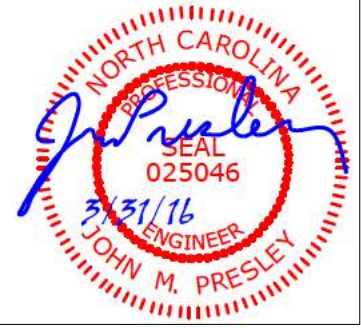
**BRACING-**  
 TOP CHORD 2-0-0 oc purlins: A-D, except end verticals.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** (lb/size) H=231/0-3-8, E=231/0-3-8

**FORCES.** (lb) - Maximum Compression/Maximum Tension  
 TOP CHORD H-I=-75/0, A-I=-75/0, E-J=-75/0, D-J=-75/0, A-B=-4/0, B-C=-216/0, C-D=-4/0  
 BOT CHORD G-H=0/216, F-G=0/216, E-F=0/216  
 WEBS C-E=-261/0, B-H=-261/0, B-G=-14/37, C-F=-14/37

**NOTES-**  
 1) Unbalanced floor live loads have been considered for this design.  
 2) This truss is designed in accordance with the 2009 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.  
 3) "Semi-rigid pitchbreaks with fixed heels" Member end fixity model was used in the analysis and design of this truss.  
 4) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.  
 5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

**LOAD CASE(S)** Standard

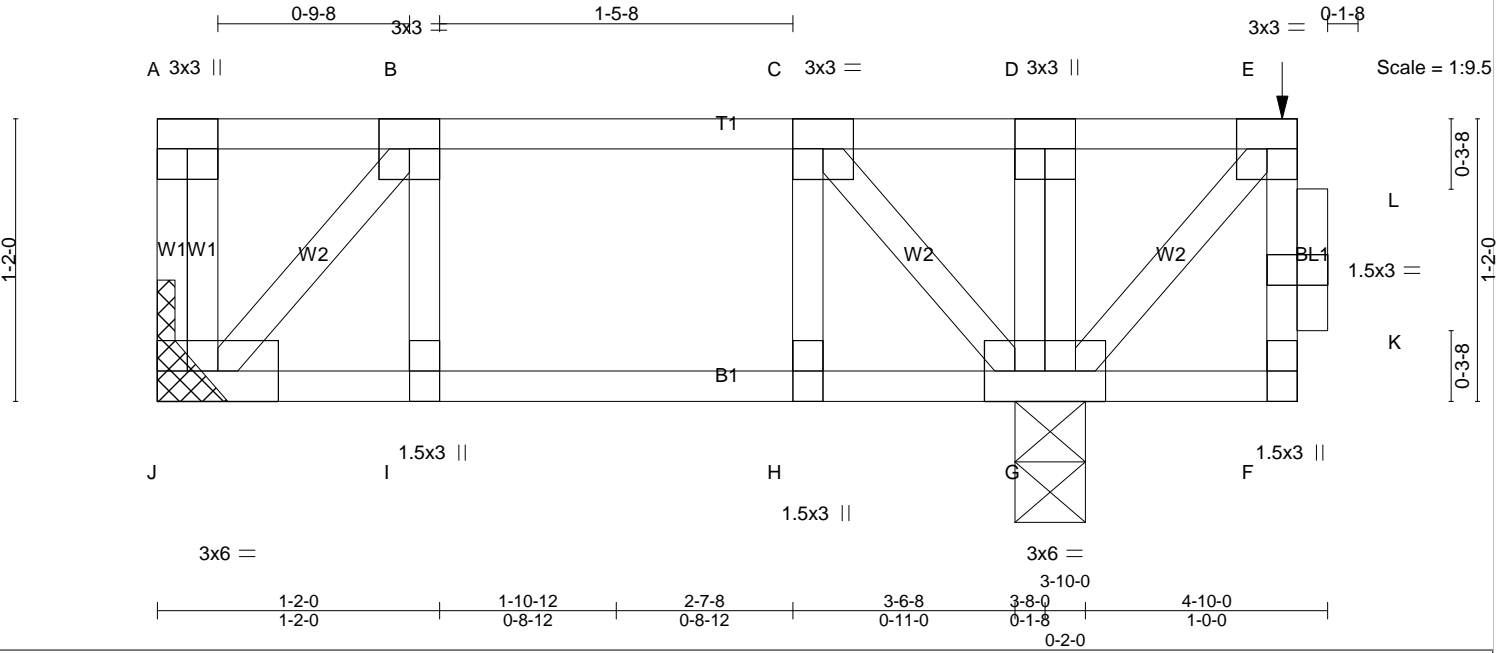


Job 66010669	Truss FT11	Truss Type Floor	Qty 8	Ply 1	THE SULLIVAN EUROPEAN LH
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UFP Mid Atlantic LLC, Burlington, NC, MJUDD

7.640 s Nov 10 2015 MITek Industries, Inc. Thu Mar 31 16:39:20 2016 Page 1

ID:Mkl3gbnawglQ8PInGX4tsLy46Tb-1O76dkP58FER4r18bpsf1cJ5XEeum6hZWh17KwzVNC5



<b>LOADING</b> (psf)	<b>SPACING-</b>	<b>CSI.</b>	<b>DEFL.</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL 40.0	2-0-0	TC 0.70	in (loc) l/defl L/d	MT20	244/190
TCDL 20.0	Plate Grip DOL 1.00	BC 0.48	Vert(LL) -0.01 I >999 480		
BCLL 0.0	Lumber DOL 1.00	WB 0.18	Vert(TL) -0.03 I >999 360		
BCDL 5.0	Rep Stress Incr NO	(Matrix)	Horz(TL) -0.00 G n/a n/a		
	Code IRC2009/TPI2007			Weight: 30 lb	FT = 4%F, 1%E

**LUMBER-**  
TOP CHORD 2x4 SP No.2(flat)  
BOT CHORD 2x4 SP No.2(flat)  
WEBS 2x4 SP No.3(flat)

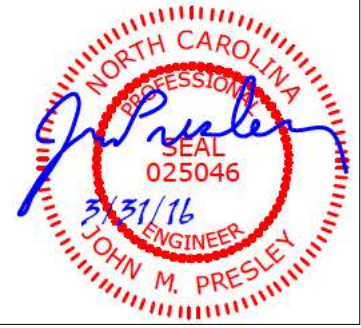
**BRACING-**  
TOP CHORD Structural wood sheathing directly applied or 4-10-0 oc purlins, except end verticals.  
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing, Except: 10-0-0 oc bracing: F-G.

**REACTIONS.** (lb/size) J=74/Mechanical, G=1013/0-3-8  
Max UpliftJ=67(LC 3)  
Max GravJ=170(LC 2), G=1013(LC 1)

**FORCES.** (lb) - Maximum Compression/Maximum Tension  
TOP CHORD A-J=-104/0, F-K=0/13, K-L=0/13, E-L=0/13, A-B=0/0, B-C=-76/195, C-D=0/540, D-E=0/540  
BOT CHORD I-J=-195/76, H-I=-195/76, G-H=-195/76, F-G=0/0  
WEBS D-G=-43/16, B-J=-111/285, B-I=-139/0, C-G=-654/0, C-H=0/176, E-G=-789/0

- NOTES-**
- 1) Unbalanced floor live loads have been considered for this design.
  - 2) This truss is designed in accordance with the 2009 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
  - 3) "Semi-rigid pitchbreaks with fixed heels" Member end fixity model was used in the analysis and design of this truss.
  - 4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
  - 5) CAUTION, Do not erect truss backwards.
  - 6) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 500 lb down at 4-7-12 on top chord. The design/selection of such connection device(s) is the responsibility of others.
  - 7) 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 + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00  
Uniform Loads (plf)  
Vert: F-J=-10, A-E=-120  
Concentrated Loads (lb)  
Vert: E=-500(F)



This truss is to be fabricated per ANSI/TPI quality requirements. Plates shall be of size and type shown and centered at joints unless otherwise noted. This design is based upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of the Building Designer. Building Designer shall verify all design information on this sheet for conformance with conditions and requirements of the specific building and governing codes and ordinances. Building Designer accepts responsibility for the correctness or accuracy of the design information as it may relate to a specific building. Certification is valid only when truss is fabricated by a UFP company. Bracing shown is for lateral support of truss members only and does not replace erection and permanent bracing. Refer to Building Component Safety Information (BCSI) for general guidance regarding storage, delivery, erection and bracing available from SBCA and Truss Plate Institute.

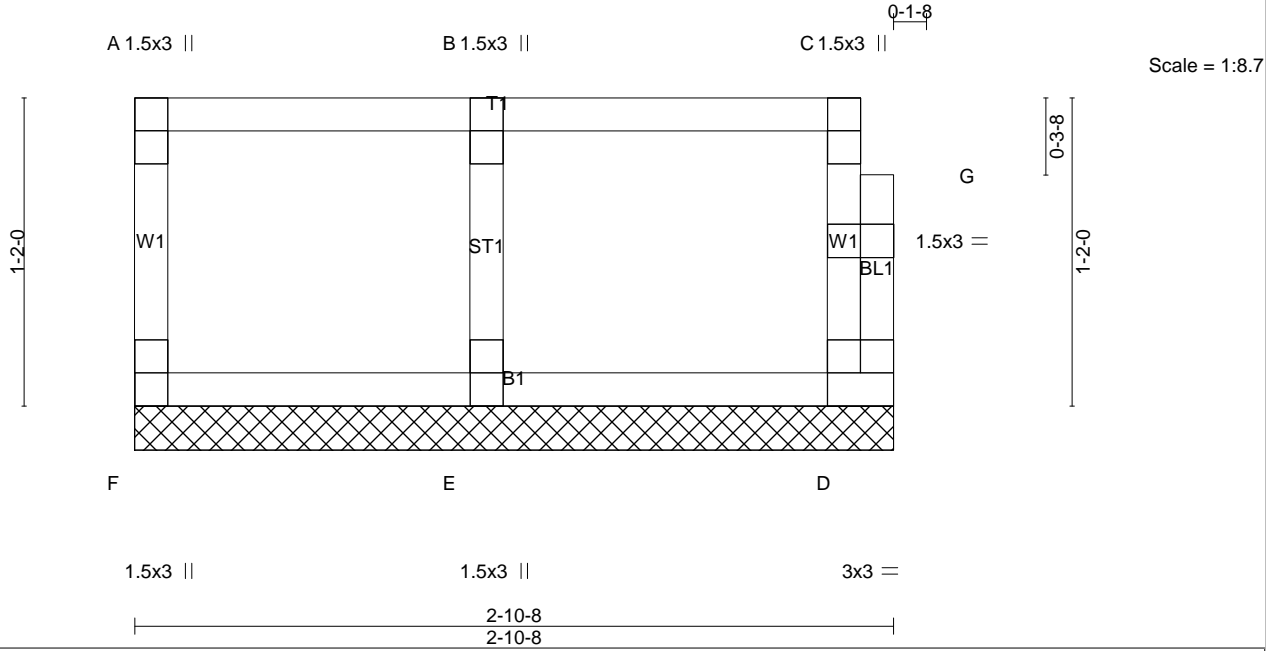


Job 66010669	Truss KW1	Truss Type Floor Supported Gable	Qty 1	Ply 1	THE SULLIVAN EUROPEAN LH
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UFP Mid Atlantic LLC, Burlington, NC, MJUDD

Job Reference (optional)

7.640 s Nov 10 2015 MiTek Industries, Inc. Thu Mar 31 16:39:21 2016 Page 1  
ID:Mkl3gbnawglQ8PInGX4tsLy46Tb-VahUq4QjvZMlh?bK9WNuzZpsPXe4AVbAikLmhsMzVNC4



<b>LOADING</b> (psf) TCLL 40.0 TCDL 20.0 BCLL 0.0 BCDL 5.0	<b>SPACING-</b> 2-0-0 Plate Grip DOL 1.00 Lumber DOL 1.00 Rep Stress Incr YES Code IRC2009/TPI2007	<b>CSI.</b> TC 0.10 BC 0.03 WB 0.04 (Matrix)	<b>DEFL.</b> in (loc) l/defl L/d Vert(LL) n/a - n/a 999 Vert(TL) n/a - n/a 999 Horz(TL) 0.00 D n/a n/a	<b>PLATES GRIP</b> MT20 244/190  Weight: 14 lb FT = 4%F, 1%E
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<b>LUMBER-</b> TOP CHORD 2x4 SP No.2(flat) BOT CHORD 2x4 SP No.2(flat) WEBS 2x4 SP No.3(flat) OTHERS 2x4 SP No.3(flat)	<b>BRACING-</b> TOP CHORD Structural wood sheathing directly applied or 2-10-8 oc purlins, except end verticals. BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
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**REACTIONS.** (lb/size) F=77/2-10-8, D=80/2-10-8, E=185/2-10-8

**FORCES.** (lb) - Maximum Compression/Maximum Tension  
TOP CHORD A-F=-68/0, D-G=-74/0, C-G=-73/0, A-B=-14/0, B-C=-14/0  
BOT CHORD E-F=0/14, D-E=0/14  
WEBS B-E=-174/0

- NOTES-**
- Gable requires continuous bottom chord bearing.
  - Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
  - Gable studs spaced at 1-4-0 oc.
  - This truss is designed in accordance with the 2009 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
  - "Semi-rigid pitchbreaks with fixed heels" Member end fixity model was used in the analysis and design of this truss.
  - Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
  - CAUTION, Do not erect truss backwards.

**LOAD CASE(S)** Standard



Job 66010669	Truss KW2	Truss Type Floor Supported Gable	Qty 1	Ply 1	THE SULLIVAN EUROPEAN LH
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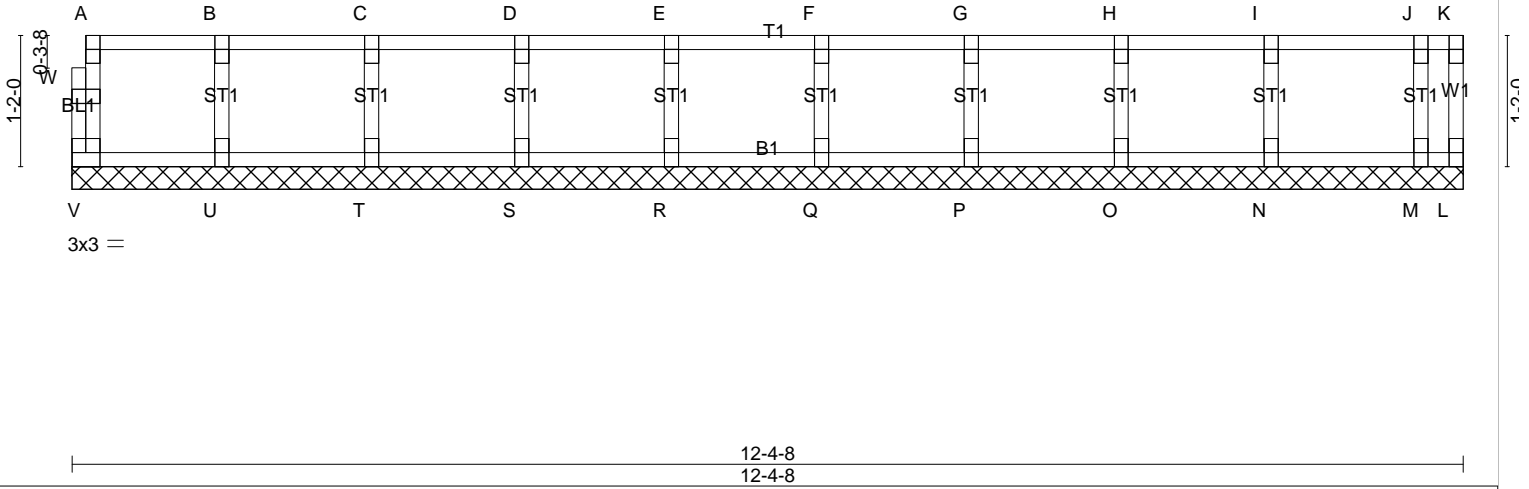
UFP Mid Atlantic LLC, Burlington, NC, MJUDD

7.640 s Nov 10 2015 MiTek Industries, Inc. Thu Mar 31 16:39:21 2016 Page 1

ID:Mkl3gbnawglQ8PlnGX4tsLy46Tb-VahUq4QjvZMih?bK9WNuZpsPbe4HVbCikLmhsMzVNC4

0-1-8

Scale = 1:20.5



<b>LOADING</b> (psf)	<b>SPACING-</b>	<b>CSI.</b>	<b>DEFL.</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL 40.0	2-0-0	TC 0.10	in (loc) l/defl L/d	MT20	244/180
TCDL 20.0	Plate Grip DOL 1.00	BC 0.02	Vert(LL) n/a - n/a 999		
BCLL 0.0	Lumber DOL 1.00	WB 0.04	Vert(TL) n/a - n/a 999		
BCDL 5.0	Rep Stress Incr YES	(Matrix)	Horz(TL) 0.00 L n/a n/a		
	Code IRC2009/TPI2007			Weight: 53 lb	FT = 4%F, 1%E

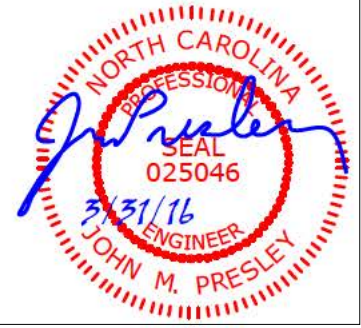
<b>LUMBER-</b>	<b>BRACING-</b>
TOP CHORD 2x4 SP No.2(flat)	TOP CHORD 2-0-0 oc purlins (6-0-0 max.): A-K, except end verticals.
BOT CHORD 2x4 SP No.2(flat)	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3(flat)	
OTHERS 2x4 SP No.3(flat)	

**REACTIONS.** (lb/size) V=61/12-4-8, L=0/12-4-8, U=175/12-4-8, T=173/12-4-8, S=173/12-4-8, R=173/12-4-8, Q=173/12-4-8, P=174/12-4-8, O=172/12-4-8, N=180/12-4-8, M=122/12-4-8

**FORCES.** (lb) - Maximum Compression/Maximum Tension  
TOP CHORD V-W=-58/0, A-W=-58/0, K-L=0/10, A-B=-7/0, B-C=-7/0, C-D=-7/0, D-E=-7/0, E-F=-7/0, F-G=-7/0, G-H=-7/0, H-I=-7/0, I-J=-7/0, J-K=-7/0  
BOT CHORD U-V=0/7, T-U=0/7, S-T=0/7, R-S=0/7, Q-R=0/7, P-Q=0/7, O-P=0/7, N-O=0/7, M-N=0/7, L-M=0/7  
WEBS B-U=-159/0, C-T=-161/0, D-S=-160/0, E-R=-160/0, F-Q=-160/0, G-P=-160/0, H-O=-158/0, I-N=-166/0, J-M=-123/0

- NOTES-**
- 1) All plates are 1.5x3 MT20 unless otherwise indicated.
  - 2) Gable requires continuous bottom chord bearing.
  - 3) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
  - 4) Gable studs spaced at 1-4-0 oc.
  - 5) This truss is designed in accordance with the 2009 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
  - 6) "Semi-rigid pitchbreaks with fixed heels" Member end fixity model was used in the analysis and design of this truss.
  - 7) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
  - 8) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
  - 9) CAUTION, Do not erect truss backwards.

**LOAD CASE(S)** Standard



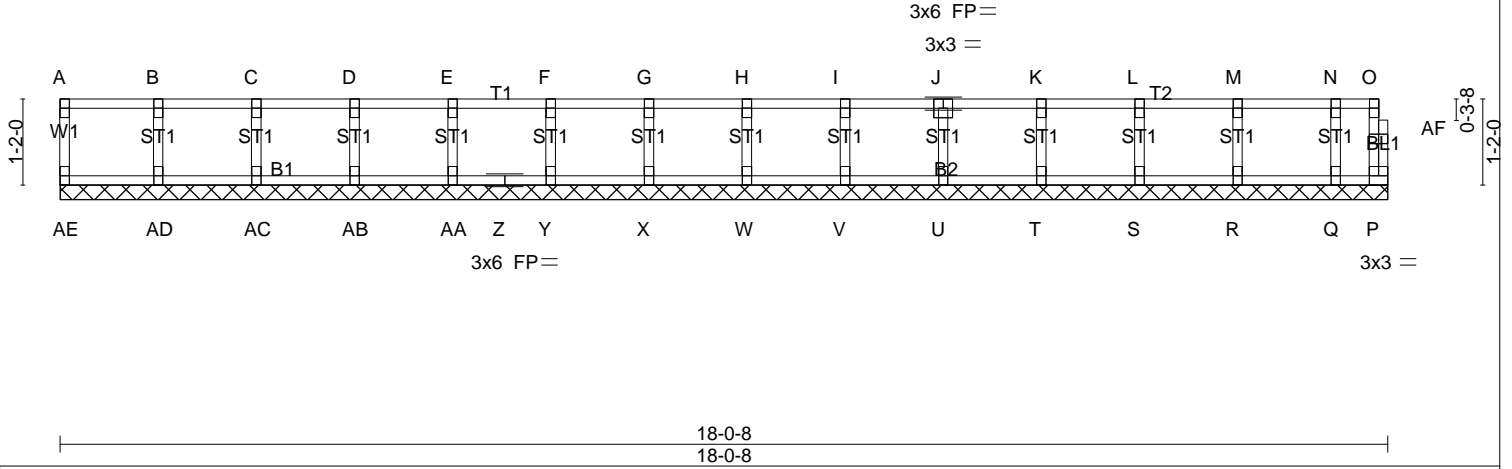
This truss is to be fabricated per ANSI/TPI quality requirements. Plates shall be of size and type shown and centered at joints unless otherwise noted. This design is based upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of the Building Designer. Building Designer shall verify all design information on this sheet for conformance with conditions and requirements of the specific building and governing codes and ordinances. Building Designer accepts responsibility for the correctness and accuracy of the design information as it may relate to a specific building. Certification is valid only when truss is fabricated by a UFP company. Bracing shown is for lateral support of truss members only and does not replace erection and permanent bracing. Refer to Building Component Safety Information (BCSI) for general guidance regarding storage, delivery, erection and bracing available from SBCA and Truss Plate Institute.



Job 66010669	Truss KW3	Truss Type Floor Supported Gable	Qty 1	Ply 1	THE SULLIVAN EUROPEAN LH
UFP Mid Atlantic LLC, Burlington, NC, MJUDD					Job Reference (optional) 7.640 s Nov 10 2015 MiTek Industries, Inc. Thu Mar 31 16:39:22 2016 Page 1
					ID:MkI3gbnawglQ8PlnGX4tsLy46Tb-znFs1QRlgtU9J9AWjEv761OaK2QVE2Rsz?WE0ozVNC3

0-1-8

Scale = 1:31.3



<b>LOADING</b> (psf)	<b>SPACING-</b>	<b>CSI.</b>	<b>DEFL.</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL 40.0	2-0-0	TC 0.10	in (loc) l/defl L/d	MT20	244/190
TCDL 20.0	Plate Grip DOL 1.00	BC 0.02	Vert(LL) n/a - n/a 999		
BCLL 0.0	Lumber DOL 1.00	WB 0.04	Vert(TL) n/a - n/a 999		
BCDL 5.0	Rep Stress Incr YES	(Matrix)	Horz(TL) 0.00 P n/a n/a		
	Code IRC2009/TPI2007			Weight: 75 lb	FT = 4%F, 1%E

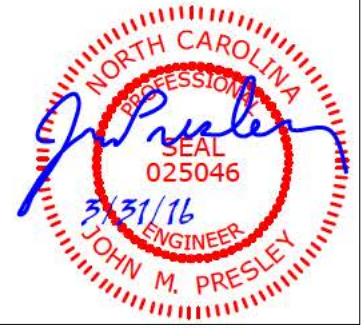
<b>LUMBER-</b>	<b>BRACING-</b>
TOP CHORD 2x4 SP No.2(flat)	TOP CHORD 2-0-0 oc purlins (6-0-0 max.): A-O, except end verticals.
BOT CHORD 2x4 SP No.2(flat)	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3(flat)	
OTHERS 2x4 SP No.3(flat)	

**REACTIONS.** (lb/size) AE=72/18-0-8, P=21/18-0-8, AD=181/18-0-8, AC=171/18-0-8, AB=174/18-0-8, AA=173/18-0-8, Y=173/18-0-8, X=173/18-0-8, W=173/18-0-8, V=173/18-0-8, U=173/18-0-8, T=174/18-0-8, S=171/18-0-8, R=181/18-0-8, Q=128/18-0-8

**FORCES.** (lb) - Maximum Compression/Maximum Tension  
TOP CHORD A-AE=66/0, P-AF=-13/0, O-AF=-13/0, A-B=-7/0, B-C=-7/0, C-D=-7/0, D-E=-7/0, E-F=-7/0, F-G=-7/0, G-H=-7/0, H-I=-7/0, I-J=-7/0, J-K=-7/0, K-L=-7/0, L-M=-7/0, M-N=-7/0, N-O=-7/0  
BOT CHORD AD-AE=0/7, AC-AD=0/7, AB-AC=0/7, AA-AB=0/7, Z-AA=0/7, Y-Z=0/7, X-Y=0/7, W-X=0/7, V-W=0/7, U-V=0/7, T-U=0/7, S-T=0/7, R-S=0/7, Q-R=0/7, P-Q=0/7  
WEBS B-AD=-168/0, C-AC=-158/0, D-AB=-160/0, E-AA=-160/0, F-Y=-160/0, G-X=-160/0, H-W=-160/0, I-V=-160/0, J-U=-160/0, K-T=-160/0, L-S=-158/0, M-R=-166/0, N-Q=-125/0

- NOTES-**
- All plates are 1.5x3 MT20 unless otherwise indicated.
  - Gable requires continuous bottom chord bearing.
  - Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
  - Gable studs spaced at 1-4-0 oc.
  - This truss is designed in accordance with the 2009 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
  - "Semi-rigid pitchbreaks with fixed heels" Member end fixity model was used in the analysis and design of this truss.
  - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
  - Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
  - CAUTION, Do not erect truss backwards.

**LOAD CASE(S)** Standard

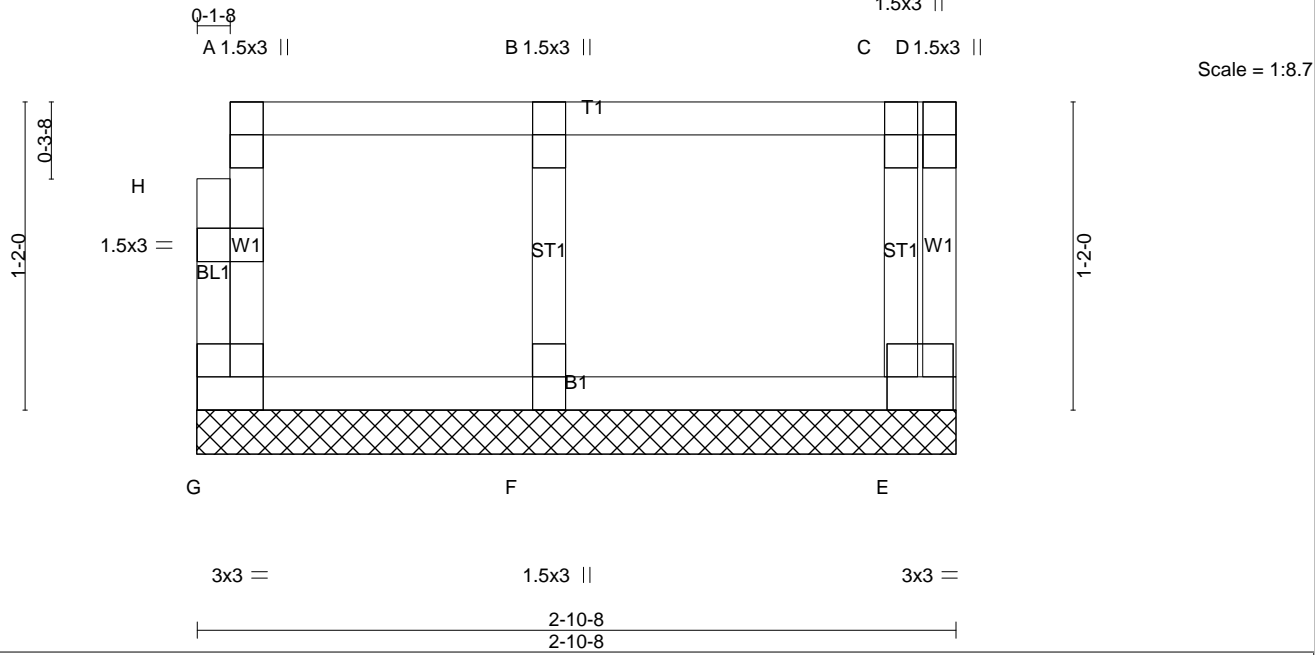


This truss is to be fabricated per ANSI/TPI quality requirements. Plates shall be of size and type shown and centered at joints unless otherwise noted. This design is based upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of the Building Designer. Building Designer shall verify all design information on this sheet for conformance with conditions and requirements of the specific building and governing codes and ordinances. Building Designer accepts responsibility for the correctness or accuracy of the design information as it may relate to a specific building. Certification is valid only when truss is fabricated by a UFP company. Bracing shown is for lateral support of truss members only and does not replace erection and permanent bracing. Refer to Building Component Safety Information (BCSI) for general guidance regarding storage, delivery, erection and bracing available from SBCA and Truss Plate Institute.



Job 66010669	Truss KW4	Truss Type Floor Supported Gable	Qty 1	Ply 1	THE SULLIVAN EUROPEAN LH
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UFP Mid Atlantic LLC, Burlington, NC, MJUDD  
 7,640 s Nov 10 2015 MITek Industries, Inc. Thu Mar 31 16:39:23 2016 Page 1  
 ID:Mk13gbnawglQ8PlnGX4tsLy46Tb-RzpEFmSzRac0xJlJGxQMeExIDSmjzVi?CtFnwFzVNC2



<b>LOADING</b> (psf) TCLL 40.0 TCDL 20.0 BCLL 0.0 BCDL 5.0	<b>SPACING-</b> 2-0-0 Plate Grip DOL 1.00 Lumber DOL 1.00 Rep Stress Incr YES Code IRC2009/TPI2007	<b>CSI.</b> TC 0.09 BC 0.02 WB 0.04 (Matrix)	<b>DEFL.</b> in (loc) l/defl L/d Vert(LL) n/a - n/a 999 Vert(TL) n/a - n/a 999 Horz(TL) 0.00 E n/a n/a	<b>PLATES GRIP</b> MT20 244/190  Weight: 15 lb FT = 4%F, 1%E
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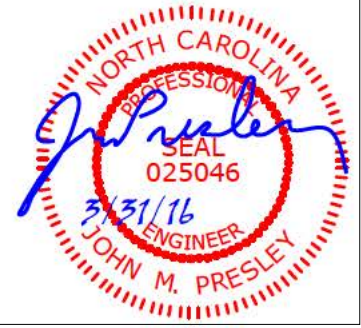
<b>LUMBER-</b> TOP CHORD 2x4 SP No.2(flat) BOT CHORD 2x4 SP No.2(flat) WEBS 2x4 SP No.3(flat) OTHERS 2x4 SP No.3(flat)	<b>BRACING-</b> TOP CHORD Structural wood sheathing directly applied or 2-10-8 oc purlins, except end verticals. BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
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**REACTIONS.** (lb/size) G=68/2-10-8, E=101/2-10-8, F=174/2-10-8

**FORCES.** (lb) - Maximum Compression/Maximum Tension  
 TOP CHORD G-H=-61/0, A-H=-60/0, D-E=0/38, A-B=-15/0, B-C=-15/0, C-D=-6/0  
 BOT CHORD F-G=0/15, E-F=0/15  
 WEBS B-F=-163/0, C-E=-133/0

- NOTES-**
- 1) Gable requires continuous bottom chord bearing.
  - 2) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
  - 3) Gable studs spaced at 1-4-0 oc.
  - 4) This truss is designed in accordance with the 2009 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
  - 5) "Semi-rigid pitchbreaks with fixed heels" Member end fixity model was used in the analysis and design of this truss.
  - 6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
  - 7) CAUTION, Do not erect truss backwards.

**LOAD CASE(S)** Standard



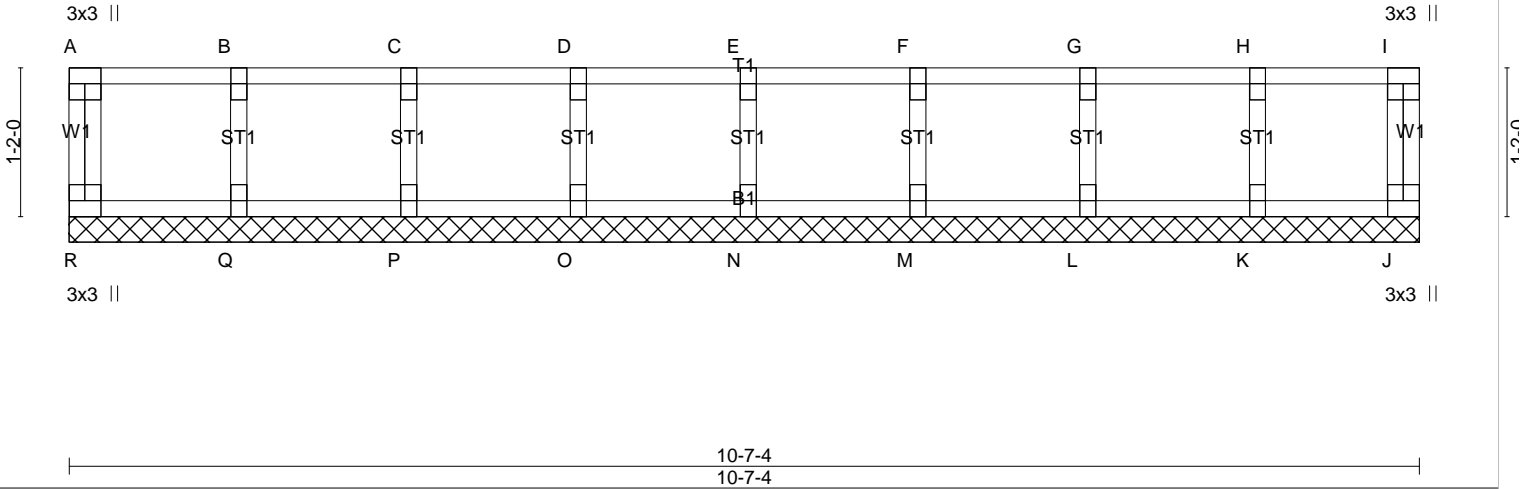


Job 66010669	Truss KW5	Truss Type GABLE	Qty 1	Ply 1	THE SULLIVAN EUROPEAN LH
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UFP Mid Atlantic LLC, Burlington, NC, MJUDD

Job Reference (optional)  
7.640 s Nov 10 2015 MiTek Industries, Inc. Thu Mar 31 16:39:24 2016 Page 1  
ID:Mk13gbnawgIQ8PlnGX4tsLy46Tb-w9NcS6TbCUktYTKvqfxbBSUwyr66iyz9QJ?LThzVNC1

Scale = 1:18.1



<b>LOADING</b> (psf)	<b>SPACING-</b>	<b>CSI.</b>	<b>DEFL.</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL 40.0	2-0-0	TC 0.09	in (loc) l/defl L/d	MT20	244/190
TCDL 20.0	Plate Grip DOL 1.00	BC 0.01	Vert(LL) n/a - n/a 999		
BCLL 0.0	Lumber DOL 1.00	WB 0.04	Vert(TL) n/a - n/a 999		
BCDL 5.0	Rep Stress Incr YES	(Matrix)	Horz(TL) 0.00 J n/a n/a		
	Code IRC2009/TPI2007			Weight: 47 lb	FT = 4%F, 1%E

<b>LUMBER-</b>	<b>BRACING-</b>
TOP CHORD 2x4 SP No.2(flat)	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2(flat)	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3(flat)	
OTHERS 2x4 SP No.3(flat)	

**REACTIONS.** (lb/size) R=73/10-7-4, J=70/10-7-4, Q=169/10-7-4, P=175/10-7-4, O=173/10-7-4, N=174/10-7-4, M=173/10-7-4, L=176/10-7-4, K=163/10-7-4

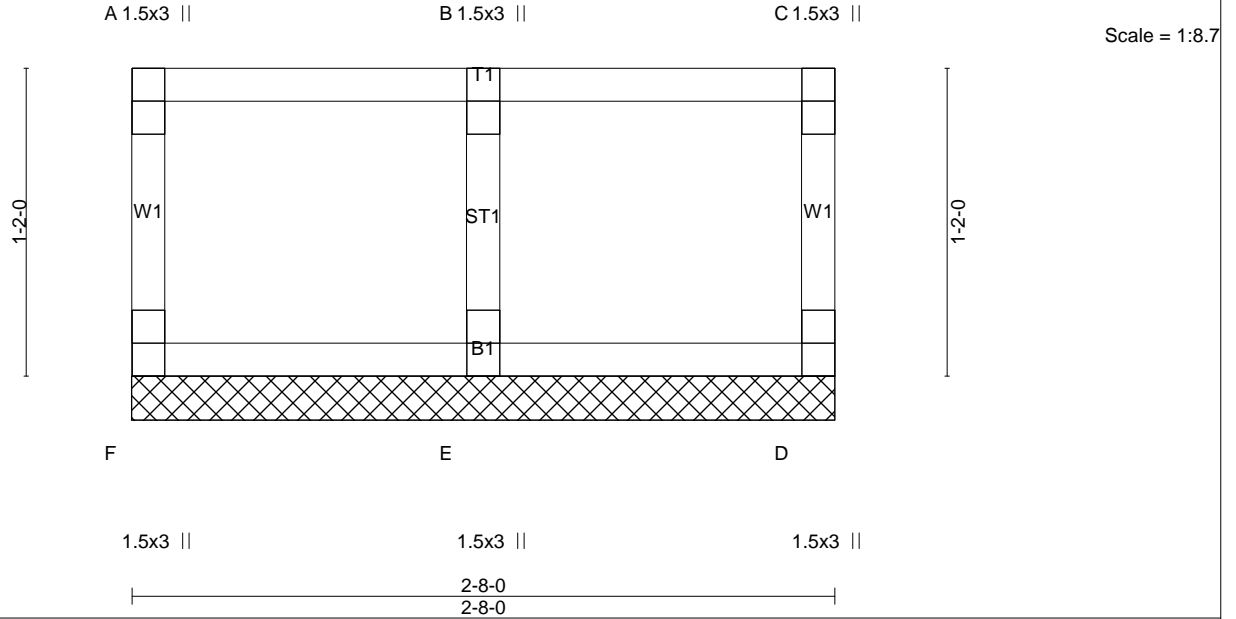
**FORCES.** (lb) - Maximum Compression/Maximum Tension  
TOP CHORD A-R=-68/0, I-J=-64/0, A-B=-12/0, B-C=-12/0, C-D=-12/0, D-E=-12/0, E-F=-12/0, F-G=-12/0, G-H=-12/0, H-I=-12/0  
BOT CHORD Q-R=0/12, P-Q=0/12, O-P=0/12, N-O=0/12, M-N=0/12, L-M=0/12, K-L=0/12, J-K=0/12  
WEBS B-Q=-157/0, C-P=-161/0, D-O=-160/0, E-N=-160/0, F-M=-159/0, G-L=-162/0, H-K=-152/0

- NOTES-**
- 1) All plates are 1.5x3 MT20 unless otherwise indicated.
  - 2) Gable requires continuous bottom chord bearing.
  - 3) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
  - 4) Gable studs spaced at 1-4-0 oc.
  - 5) This truss is designed in accordance with the 2009 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
  - 6) "Semi-rigid pitchbreaks with fixed heels" Member end fixity model was used in the analysis and design of this truss.
  - 7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

**LOAD CASE(S)** Standard



Job 66010669	Truss KW6	Truss Type Floor Supported Gable	Qty 1	Ply 1	THE SULLIVAN EUROPEAN LH
UFP Mid Atlantic LLC, Burlington, NC, MJUDD					Job Reference (optional) 7.640 s Nov 10 2015 MiTek Industries, Inc. Thu Mar 31 16:39:24 2016 Page 1
ID:Mkl3gbnawglQ8PlnGX4tsLy46Tb-w9NcS6TbCUktYTKvqfxbBSUwrr61iyx9QJ?LThzVNC1					



<b>LOADING</b> (psf)	<b>SPACING-</b> 2-0-0	<b>CSI.</b>	<b>DEFL.</b> in (loc) l/def L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 40.0	Plate Grip DOL 1.00	TC 0.10	Vert(LL) n/a - n/a 999	MT20	244/190
TCDL 20.0	Lumber DOL 1.00	BC 0.02	Vert(TL) n/a - n/a 999		
BCLL 0.0	Rep Stress Incr YES	WB 0.04	Horz(TL) 0.00 D n/a n/a		
BCDL 5.0	Code IRC2009/TPI2007	(Matrix)		Weight: 12 lb	FT = 4%F, 1%E

<b>LUMBER-</b>	<b>BRACING-</b>
TOP CHORD 2x4 SP No.2(flat)	TOP CHORD Structural wood sheathing directly applied or 2-8-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2(flat)	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3(flat)	
OTHERS 2x4 SP No.3(flat)	

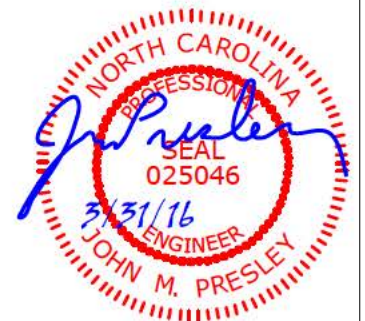
**REACTIONS.** (lb/size) F=75/2-8-0, D=75/2-8-0, E=180/2-8-0

**FORCES.** (lb) - Maximum Compression/Maximum Tension  
TOP CHORD A-F=-67/0, C-D=-67/0, A-B=-11/0, B-C=-11/0  
BOT CHORD E-F=0/11, D-E=0/11  
WEBS B-E=-170/0

**NOTES-**

- Gable requires continuous bottom chord bearing.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 1-4-0 oc.
- This truss is designed in accordance with the 2009 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- "Semi-rigid pitchbreaks with fixed heels" Member end fixity model was used in the analysis and design of this truss.
- Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

**LOAD CASE(S)** Standard

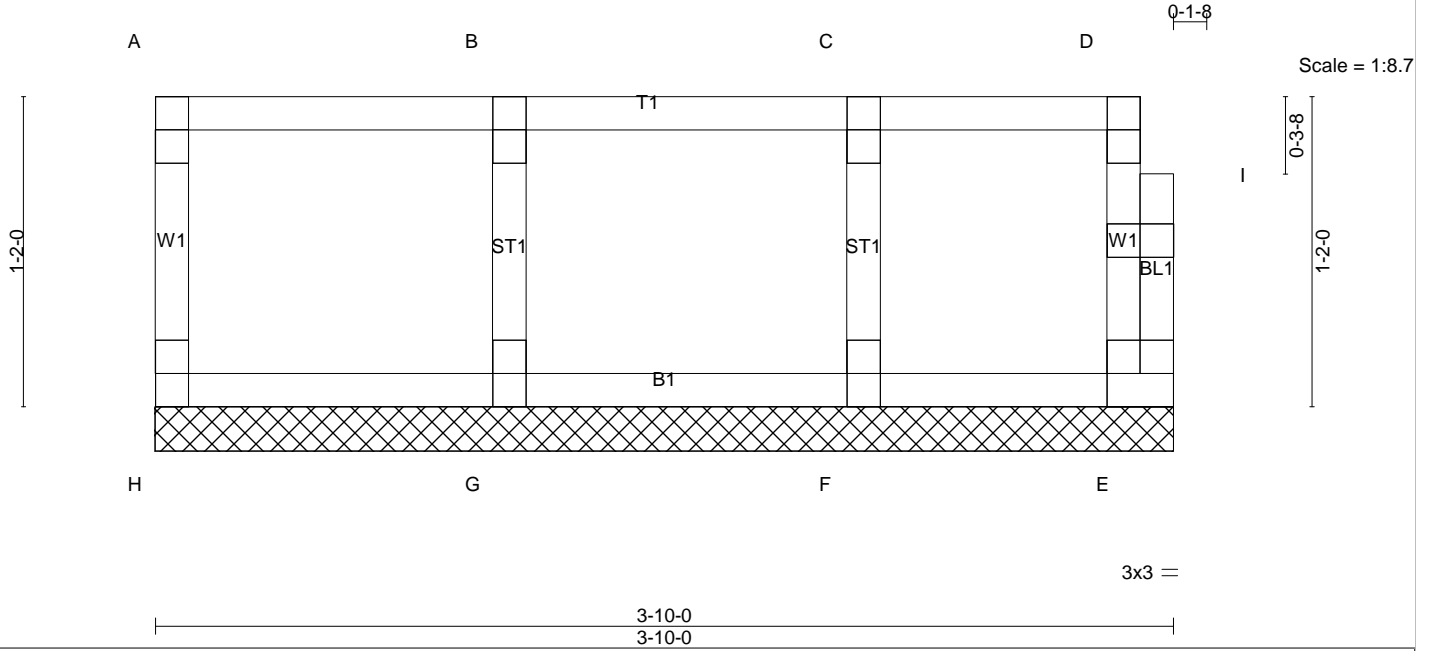


Job 66010669	Truss KW7	Truss Type Floor Supported Gable	Qty 2	Ply 1	THE SULLIVAN EUROPEAN LH
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UFP Mid Atlantic LLC, Burlington, NC, MJUDD

Job Reference (optional)

7.640 s Nov 10 2015 MiTek Industries, Inc. Thu Mar 31 16:39:25 2016 Page 1  
ID:Mkl3gbnawglQ8PInGX4tsLy46Tb-OMw?gSTEzoskAcv5OMSqkf05bFSJRPAlfzku?7zVNC0



<b>LOADING</b> (psf)	<b>SPACING-</b>	<b>CSI.</b>	<b>DEFL.</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL 40.0	2-0-0	TC 0.10	in (loc) l/defl L/d	MT20	244/190
TCDL 20.0	Plate Grip DOL 1.00	BC 0.01	Vert(LL) n/a - n/a 999		
BCLL 0.0	Lumber DOL 1.00	WB 0.04	Vert(TL) n/a - n/a 999		
BCDL 5.0	Rep Stress Incr YES	(Matrix)	Horz(TL) 0.00 E n/a n/a		
	Code IRC2009/TPI2007			Weight: 18 lb	FT = 4%F, 1%E

<b>LUMBER-</b>	<b>BRACING-</b>
TOP CHORD 2x4 SP No.2(flat)	TOP CHORD Structural wood sheathing directly applied or 3-10-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2(flat)	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3(flat)	
OTHERS 2x4 SP No.3(flat)	

**REACTIONS.** (lb/size) H=74/3-10-0, E=55/3-10-0, G=182/3-10-0, F=155/3-10-0

**FORCES.** (lb) - Maximum Compression/Maximum Tension  
TOP CHORD A-H=-67/0, E-I=-50/0, D-I=-49/0, A-B=-10/0, B-C=-10/0, C-D=-10/0  
BOT CHORD G-H=0/10, F-G=0/10, E-F=0/10  
WEBS B-G=-169/0, C-F=-144/0

- NOTES-**
- 1) All plates are 1.5x3 MT20 unless otherwise indicated.
  - 2) Gable requires continuous bottom chord bearing.
  - 3) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
  - 4) Gable studs spaced at 1-4-0 oc.
  - 5) This truss is designed in accordance with the 2009 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
  - 6) "Semi-rigid pitchbreaks with fixed heels" Member end fixity model was used in the analysis and design of this truss.
  - 7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
  - 8) CAUTION, Do not erect truss backwards.

**LOAD CASE(S)** Standard



This truss is to be fabricated per ANSI/TPI quality requirements. Plates shall be of size and type shown and centered at joints unless otherwise noted. This design is based upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of the Building Designer. Building Designer shall verify all design information on this sheet for conformance with conditions and requirements of the specific building and governing codes and ordinances. Building Designer accepts responsibility for the correctness and accuracy of the design information as it may relate to a specific building. Certification is valid only when truss is fabricated by a UFP company. Bracing shown is for lateral support of truss members only and does not replace erection and permanent bracing. Refer to Building Component Safety Information (BCSI) for general guidance regarding storage, delivery, erection and bracing available from SBCA and Truss Plate Institute.

