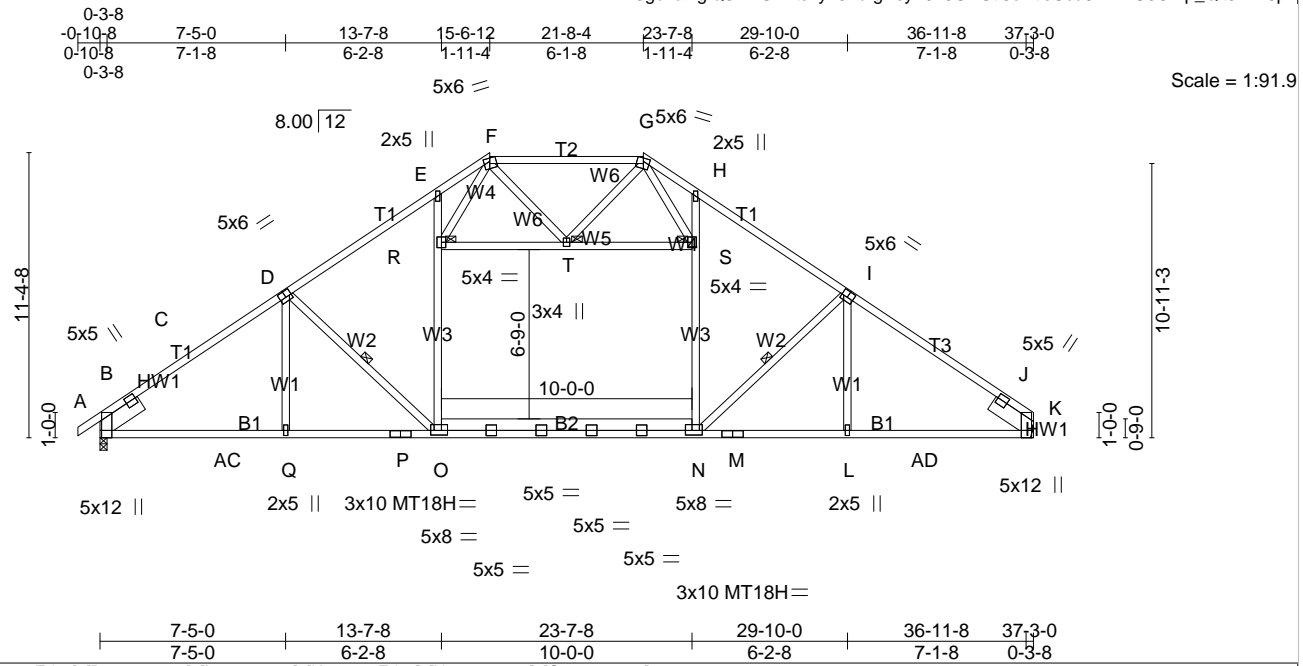


Job 66010668	Truss A1A	Truss Type ROOF TRUSS	Qty 1	Ply 1	SULLIVAN EUROPEAN LH PORC
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UFP Mid Atlantic LLC, Burlington, NC, MJUDD  
 7,640 s Feb 22 2016 MiTek Industries, Inc. Fri Apr 01 12:26:22 2016 Page 1  
 ID:Mk13gbnawglQ8PInGX4tsLy46Tb-gKeyZOL9GDSf8oRtieUcu6MMFU3CTlp\_Qit5nzV5pF



<b>LOADING</b> (psf)	<b>SPACING-</b>	<b>CSI.</b>	<b>DEFL.</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	2-0-0	TC 0.91	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.96	Vert(LL) -0.51 O-Q >873 240	MT18H	244/190
BCLL 0.0 *	Lumber DOL 1.15	WB 0.70	Vert(TL) -0.67 O-Q >663 180		
BCDL 10.0	Rep Stress Incr YES	(Matrix-M)	Horz(TL) 0.16 K n/a n/a		
	Code IRC2009/TP12007		Attic -0.38 N-O 326 360	Weight: 265 lb	FT = 4%

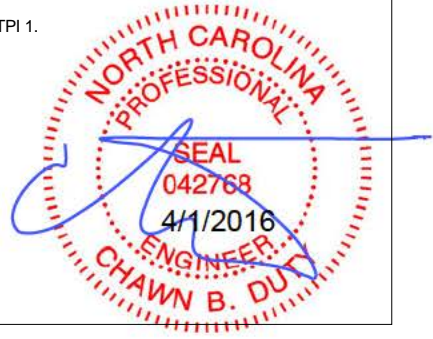
<b>LUMBER-</b>	<b>BRACING-</b>
TOP CHORD 2x4 SP SS *Except* T2: 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied, except 2-0-0 oc purlins (3-10-14 max.): F-G.
BOT CHORD 2x4 SP SS *Except* B2: 2x4 SP No.1, B3: 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.
WEBS 2x4 SP No.3 *Except* W3: 2x4 SP No.2	WEBS 1 Row at midpt D-O, I-N
SLIDER Left 2x8 SP No.2 1-11-12, Right 2x8 SP No.2 1-11-12	JOINTS 1 Brace at Jt(s): R, S, T

**REACTIONS.** (lb/size) B=1909/0-3-8, K=1855/Mechanical  
 Max Horz B=307(LC 4)  
 Max Uplift B=-176(LC 5), K=-140(LC 6)

**FORCES.** (lb) - Maximum Compression/Maximum Tension  
 TOP CHORD A-B=0/29, B-C=-457/0, C-D=-2576/223, D-E=-2243/221, E-F=-2163/340, G-H=-2163/340, H-I=-2244/221, I-J=-2579/224, J-K=-469/0,  
 F-G=-1287/173  
 BOT CHORD B-AC=-191/2029, Q-AC=-191/2029, P-Q=-190/2030, O-P=-190/2030, N-O=0/1790, M-N=-72/2034, L-M=-72/2034, L-AD=-72/2033,  
 K-AD=-72/2033  
 WEBS D-Q=-13/208, D-O=-436/249, O-R=-17/631, E-R=-231/146, N-S=-18/633, H-S=-229/146, I-N=-441/250, I-L=-13/209, R-T=-532/111,  
 S-T=-532/111, G-T=-93/154, F-T=-93/154, F-R=-177/1027, G-S=-177/1027

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-05; 100mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; enclosed; MWFRS (low-rise) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
  - 3) Provide adequate drainage to prevent water ponding.
  - 4) All plates are MT20 unless otherwise indicated.
  - 5) The solid section of the plate is required to be placed over the splice line at joint(s) P, M.
  - 6) Plate(s) at joint(s) P and M checked for a plus or minus 5 degree rotation about its center.
  - 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). R-T, S-T
  - 10) Bottom chord live load (20.0 psf) and additional bottom chord dead load (0.0 psf) applied only to room. N-O
  - 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 176 lb uplift at joint B and 140 lb uplift at joint K.
  - 12) This truss is designed in accordance with the 2009 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TP1 1.
  - 13) "Semi-rigid pitchbreaks with fixed heels" Member end fixity model was used in the analysis and design of this truss.
  - 14) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
  - 15) ATTIC SPACE SHOWN IS DESIGNED AS UNINHABITABLE.

**LOAD CASE(S)** Standard



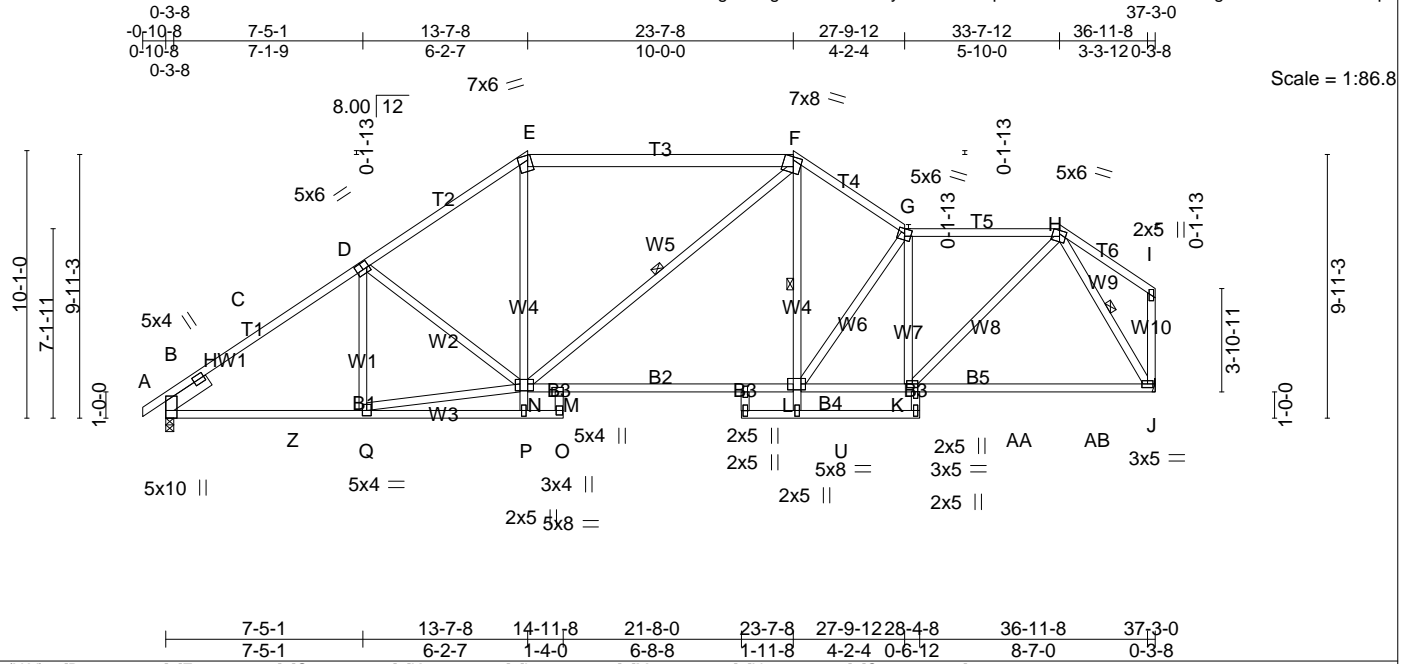
This truss is to be fabricated per ANSI/TP1 quality requirements. Plates shall be of size and type shown and centered at joints unless otherwise noted. This design is based upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design 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 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 66010668	Truss A2A	Truss Type Piggyback Base	Qty 1	Ply 1	SULLIVAN EUROPEAN LH PORC
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UFP Mid Atlantic LLC, Burlington, NC, MJUDD  
 ID: Mkl3gbnawglQ8PInGX4tsLy46Tb-VU?Dp3Qwr3C0N3FbDzKur9MOegYkcALiMM9BIRzV5p9  
 7,640 s Feb 22 2016 MiTek Industries, Inc. Fri Apr 01 12:26:28 2016 Page 1



<b>LOADING</b> (psf)	<b>SPACING-</b>	<b>CSI.</b>	<b>DEFL.</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	2-0-0	TC 0.92	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.87	Vert(LL) -0.23 L-M >999 240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.73	Vert(TL) -0.67 L-M >666 180		
BCDL 10.0	Rep Stress Incr YES	(Matrix-M)	Horz(TL) 0.11 J n/a n/a		
	Code IRC2009/TP12007			Weight: 267 lb	FT = 4%

**LUMBER-**  
 TOP CHORD 2x4 SP No.2 \*Except\*  
 T3: 2x6 SP No.2, T1: 2x4 SP SS  
 BOT CHORD 2x4 SP No.3 \*Except\*  
 B1,B5: 2x4 SP No.1, B2,B4: 2x4 SP No.2  
 WEBS 2x4 SP No.3  
 SLIDER Left 2x6 SP No.2 1-11-12

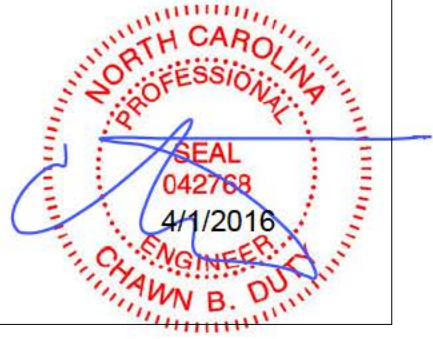
**BRACING-**  
 TOP CHORD Structural wood sheathing directly applied or 2-9-12 oc purlins, except end verticals, and 2-0-0 oc purlins (2-2-0 max.): E-F, G-H.  
 BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.  
 WEBS 1 Row at midpt F-U, H-J, F-N

**REACTIONS.** (lb/size) B=1640/0-3-8, J=1607/Mechanical  
 Max Horz B=324(LC 4)  
 Max Uplift B=-195(LC 5), J=-166(LC 6)

**FORCES.** (lb) - Maximum Compression/Maximum Tension  
 TOP CHORD A-B=0/29, B-C=-248/0, C-D=-2161/243, D-E=-1989/258, E-F=-1589/269, F-G=-1925/269, G-H=-1864/240, H-I=-100/93, I-J=-117/84  
 BOT CHORD B-Z=-343/1692, Q-Z=-343/1692, P-Q=-243/0, O-P=-332/0, M-O=-231/0, M-N=-110/1669, L-M=-241/1550, K-L=-225/1885, K-AA=-141/830, AA-AB=-141/830, J-AB=-141/830  
 WEBS D-Q=-141/104, N-P=0/443, E-N=0/587, L-U=0/0, F-L=-62/558, G-L=-584/147, G-K=-828/184, N-Q=-229/1767, D-N=-166/201, H-K=-115/1489, H-J=-1554/240, F-N=-108/204

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-05; 100mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; enclosed; MWFRS (low-rise) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
  - 3) Provide adequate drainage to prevent water ponding.
  - 4) The solid section of the plate is required to be placed over the splice line at joint(s) F.
  - 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 195 lb uplift at joint B and 166 lb uplift at joint J.
  - 8) This truss is designed in accordance with the 2009 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TP1 1.
  - 9) "Semi-rigid pitchbreaks with fixed heels" Member end fixity model was used in the analysis and design of this truss.
  - 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

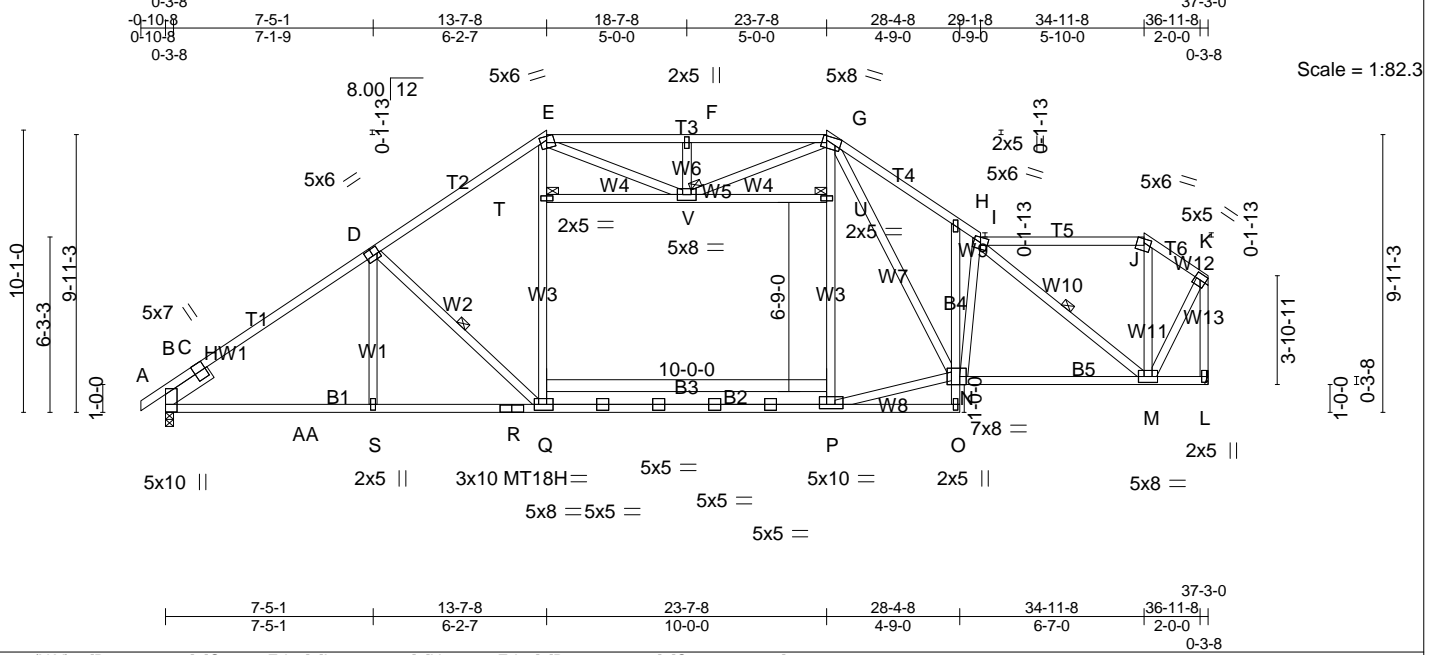
**LOAD CASE(S)** Standard





Job 66010668	Truss A3	Truss Type ROOF TRUSS	Qty 1	Ply 1	SULLIVAN EUROPEAN LH PORC
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UFP Mid Atlantic LLC, Burlington, NC, MJUDD  
 7,640 s Feb 22 2016 MiTek Industries, Inc. Fri Apr 01 12:26:30 2016 Page 1  
 ID: Mkl3gbnawglQ8PInGX4tsLy46Tb-Rt7\_EIRANgSkcNPzLONmXaRj6UGR44s7qgeINJzV5p7



<b>LOADING</b> (psf)	<b>SPACING-</b>	<b>CSI.</b>	<b>DEFL.</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	2-0-0	TC 0.99	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.73	Vert(LL) -0.54 Q-S >831 240	MT18H	244/190
BCLL 0.0 *	Lumber DOL 1.15	WB 0.73	Vert(TL) -0.77 Q-S >582 180		
BCDL 10.0	Rep Stress Incr YES	(Matrix-M)	Horz(TL) 0.12 L n/a n/a		
	Code IRC2009/TP12007		Attic -0.39 P-Q 315 360		
				Weight: 295 lb	FT = 4%

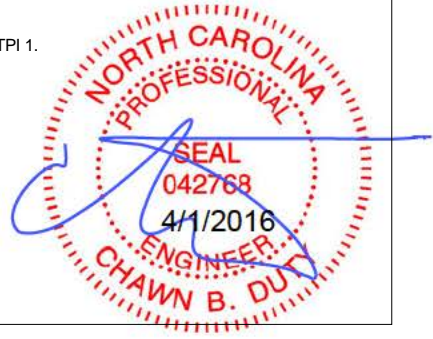
<b>LUMBER-</b>	<b>BRACING-</b>
TOP CHORD 2x4 SP No.2 *Except* T1: 2x4 SP SS	TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (3-8-9 max.): E-G, I-J.
BOT CHORD 2x4 SP SS *Except* B4: 2x4 SP No.3, B5: 2x4 SP No.2, B3: 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 2x4 SP No.3 *Except* W3: 2x4 SP No.2	WEBS 1 Row at midpt D-Q, I-M
SLIDER Left 2x6 SP No.2 1-11-12	JOINTS 1 Brace at Jt(s): T, U, V

**REACTIONS.** (lb/size) B=1884/0-3-8, L=1760/Mechanical  
 Max Horz B=324(LC 4)  
 Max Uplift B=-164(LC 5), L=-135(LC 6)

**FORCES.** (lb) - Maximum Compression/Maximum Tension  
 TOP CHORD A-B=0/29, B-C=-265/0, C-D=-2546/203, D-E=-2195/194, E-F=-2169/276, F-G=-2169/276, G-H=-2690/336, H-I=-2770/221, I-J=-709/119, J-K=-856/109, K-L=-1774/127  
 BOT CHORD B-AA=-302/2007, S-AA=-302/2007, R-S=-302/2008, Q-R=-302/2008, P-Q=183/1744, O-P=-82/85, N-O=-104/76, H-N=-200/190, M-N=-159/2297, L-M=-33/43  
 WEBS D-S=0/218, D-Q=-423/249, Q-T=-13/612, E-T=0/636, P-U=-28/217, G-U=6/247, N-P=-191/1748, Q-N=-257/1039, I-N=-523/193, I-M=-2073/110, J-M=0/242, K-M=-91/1482, T-V=-98/81, U-V=-134/59, F-V=-356/202, E-V=-303/594, G-V=-258/608

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-05; 100mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; enclosed; MWFRS (low-rise) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
  - Provide adequate drainage to prevent water ponding.
  - All plates are MT20 plates unless otherwise indicated.
  - The solid section of the plate is required to be placed over the splice line at joint(s) R.
  - Plate(s) at joint(s) R checked for a plus or minus 5 degree rotation about its center.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
  - Ceiling dead load (5.0 psf) on member(s). T-V, U-V
  - Bottom chord live load (20.0 psf) and additional bottom chord dead load (0.0 psf) applied only to room. P-Q
  - Provide metal plate or equivalent at bearing(s) L to support reaction shown.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 164 lb uplift at joint B and 135 lb uplift at joint L.
  - 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.
  - "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.
  - ATTIC SPACE SHOWN IS DESIGNED AS UNINHABITABLE.

**LOAD CASE(S)** Standard

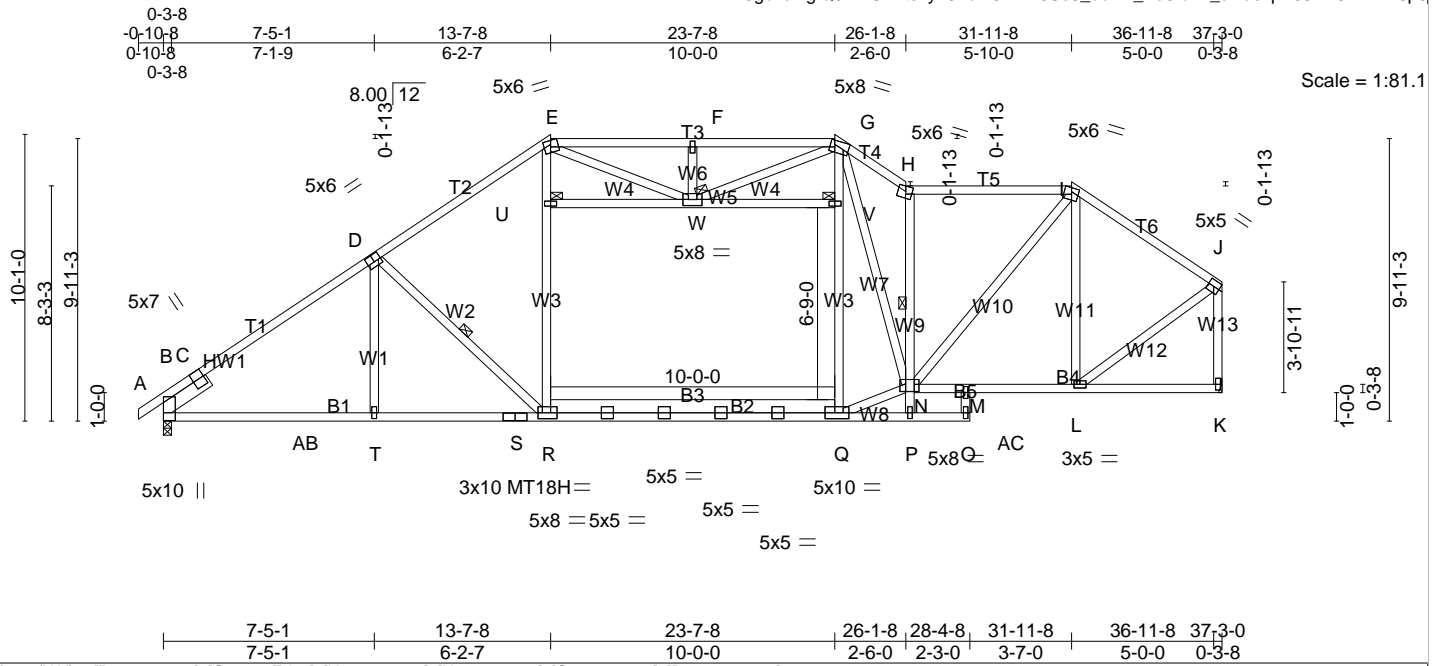


This truss is to be fabricated per ANSI/TP1 quality requirements. Plates shall be of size and type shown and centered at joints unless otherwise noted. This design is based upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design 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 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 66010668	Truss A3A	Truss Type ROOF TRUSS	Qty 1	Ply 1	SULLIVAN EUROPEAN LH PORC
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UFP Mid Atlantic LLC, Burlington, NC, MJUDD 7,640 s Feb 22 2016 MiTek Industries, Inc. Fri Apr 01 12:26:31 2016 Page 1  
 ID:MKl3gbnawglQ8PInGX4tsLy46Tb-v3hMR5So8\_bbEX\_Au5IbTn\_uwuc7pV082KOrvmzV5p6



<b>LOADING</b> (psf)	<b>SPACING-</b>	<b>CSI.</b>	<b>DEFL.</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	2-0-0	TC 0.98	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.77	Vert(LL) -0.41 R-T >999 240	MT18H	244/190
BCLL 0.0 *	Lumber DOL 1.15	WB 0.86	Vert(TL) -0.63 R-T >702 180		
BCDL 10.0	Rep Stress Incr YES	(Matrix-M)	Horz(TL) 0.10 K n/a n/a		
	Code IRC2009/TP12007		Attic -0.28 Q-R 448 360		
				Weight: 297 lb	FT = 4%

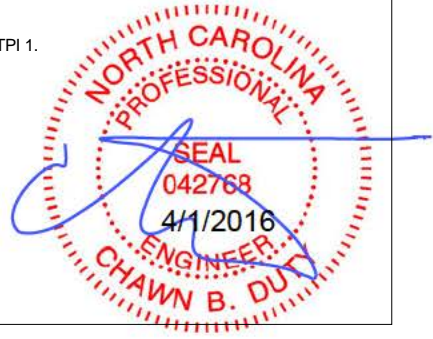
<b>LUMBER-</b>	<b>BRACING-</b>
TOP CHORD 2x4 SP No.2 *Except* T1: 2x4 SP SS	TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (2-9-3 max.): E-G, H-I.
BOT CHORD 2x4 SP SS *Except* B5: 2x4 SP No.3, B4: 2x4 SP No.2, B3: 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt D-R, H-P
SLIDER Left 2x6 SP No.2 1-11-12	JOINTS 1 Brace at Jt(s): U, V, W

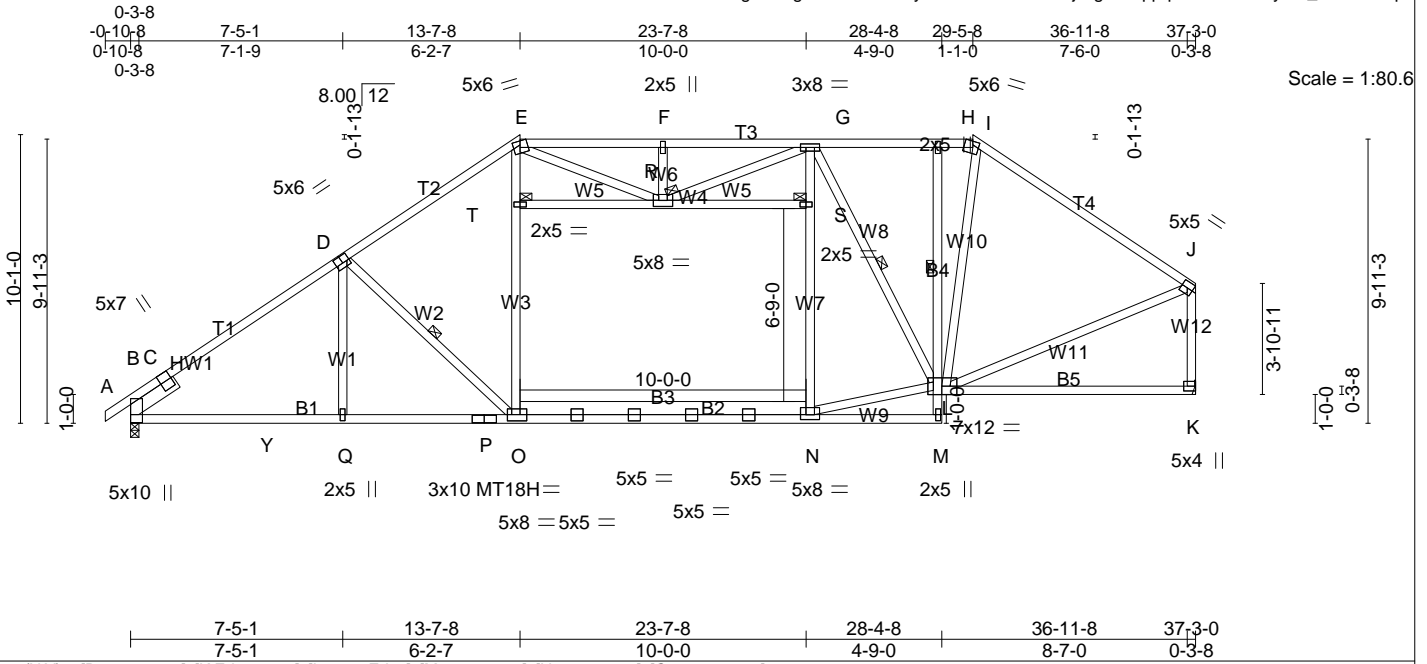
**REACTIONS.** (lb/size) B=1902/0-3-8, K=1846/Mechanical  
 Max Horz B=324(LC 4)  
 Max Uplift B=-164(LC 5), K=-135(LC 6)

**FORCES.** (lb) - Maximum Compression/Maximum Tension  
 TOP CHORD A-B=0/29, B-C=-264/0, C-D=-2571/202, D-E=-2230/196, E-F=-2214/319, F-G=-2214/319, G-H=-2609/311, H-I=-2081/203, I-J=-1534/166, J-K=-1818/160  
 BOT CHORD B-AB=-328/2027, T-AB=-328/2027, S-T=-327/2028, R-S=-327/2028, Q-R=-230/1780, P-Q=-74/127, O-P=-47/76, M-O=-25/58, M-N=-95/1166, M-AC=-131/1233, L-AC=-131/1233, K-L=-24/38  
 WEBS D-T=0/219, D-R=-402/246, R-U=-9/614, E-U=0/640, Q-V=-322/258, G-V=-301/273, N-P=-299/150, H-N=-1651/284, I-L=-633/133, J-L=-129/1490, I-N=-134/1369, N-Q=-217/1803, G-N=-262/1357, U-W=-101/64, V-W=90/73, F-W=-362/208, E-W=-293/616, G-W=-222/555

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-05; 100mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; enclosed; MWFRS (low-rise) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
  - 3) Provide adequate drainage to prevent water ponding.
  - 4) All plates are MT20 plates unless otherwise indicated.
  - 5) All plates are 2x5 MT20 unless otherwise indicated.
  - 6) The solid section of the plate is required to be placed over the splice line at joint(s) S.
  - 7) Plate(s) at joint(s) S checked for a plus or minus 5 degree rotation about its center.
  - 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) Ceiling dead load (5.0 psf) on member(s), U-W, V-W
  - 11) Bottom chord live load (20.0 psf) and additional bottom chord dead load (0.0 psf) applied only to room. Q-R
  - 12) Provide metal plate or equivalent at bearing(s) K to support reaction shown.
  - 13) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 164 lb uplift at joint B and 135 lb uplift at joint K.
  - 14) This truss is designed in accordance with the 2009 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TP1.
  - 15) "Semi-rigid pitchbreaks with fixed heels" Member end fixity model was used in the analysis and design of this truss.
  - 16) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
  - 17) ATTIC SPACE SHOWN IS DESIGNED AS UNINHABITABLE.

**LOAD CASE(S)** Standard





<b>LOADING</b> (psf)	<b>SPACING-</b>	<b>CSI.</b>	<b>DEFL.</b>		<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	2-0-0	TC 0.99	in (loc) l/defl L/d		MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.81	Vert(LL) 0.52 M-N >862 240		MT18H	244/190
BCLL 0.0 *	Lumber DOL 1.15	WB 0.82	Vert(TL) -0.55 O-Q >804 180			
BCDL 10.0	Rep Stress Incr YES	(Matrix-M)	Horz(TL) -0.08 B n/a n/a			
	Code IRC2009/TP12007		Attic -0.25 N-O 502 360			
					Weight: 293 lb	FT = 4%

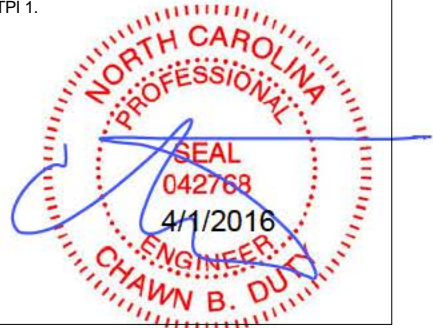
<b>LUMBER-</b>	<b>BRACING-</b>
<b>TOP CHORD</b> 2x4 SP No.2 *Except* T4: 2x4 SP No.1, T1: 2x4 SP SS	<b>TOP CHORD</b> Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (3-7-4 max.): E-I.
<b>BOT CHORD</b> 2x4 SP No.2 *Except* B1: 2x4 SP SS, B4: 2x4 SP No.3, B2: 2x4 SP No.1, B3: 2x6 SP No.2	<b>BOT CHORD</b> Rigid ceiling directly applied or 6-0-0 oc bracing. Except: 1 Row at midpt H-L 1 Row at midpt D-O, G-L
<b>WEBS</b> 2x4 SP No.3	<b>WEBS</b>
<b>SLIDER</b> Left 2x6 SP No.2 1-11-12	<b>JOINTS</b> 1 Brace at Jt(s): R, S, T

**REACTIONS.** (lb/size) B=1884/0-3-8, K=1760/Mechanical  
 Max Horz B=324(LC 4)  
 Max Uplift B=164(LC 5), K=86(LC 6)

**FORCES.** (lb) - Maximum Compression/Maximum Tension  
**TOP CHORD** A-B=0/29, B-C=-265/3, C-D=-2545/202, D-E=-2197/196, E-F=-2140/334, F-G=-2139/333, G-H=-1449/174, H-I=-1448/174, I-J=-1768/153, J-K=-1669/137  
**BOT CHORD** B-Y=-350/2006, Q-Y=-350/2006, P-Q=-349/2008, O-P=-349/2008, N-O=-265/1748, M-N=-131/0, L-M=-92/65, H-L=-117/159, K-L=-12/61  
**WEBS** D-Q=0/216, D-O=368/247, O-T=16/619, E-T=3/644, E-R=351/587, N-S=-54/225, G-S=30/235, L-N=-229/1845, G-L=720/148, I-L=-157/708, J-L=-170/1421, R-T=-100/106, R-S=-117/54, F-R=340/222, G-R=-191/477

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-05; 100mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; enclosed; MWFRS (low-rise) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
  - 3) Provide adequate drainage to prevent water ponding.
  - 4) All plates are MT20 plates unless otherwise indicated.
  - 5) The solid section of the plate is required to be placed over the splice line at joint(s) P.
  - 6) Plate(s) at joint(s) P checked for a plus or minus 5 degree rotation about its center.
  - 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). R-T, R-S
  - 10) Bottom chord live load (20.0 psf) and additional bottom chord dead load (0.0 psf) applied only to room. N-O
  - 11) Provide metal plate or equivalent at bearing(s) K to support reaction shown.
  - 12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 164 lb uplift at joint B and 86 lb uplift at joint K.
  - 13) This truss is designed in accordance with the 2009 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TP1 1.
  - 14) "Semi-rigid pitchbreaks with fixed heels" Member end fixity model was used in the analysis and design of this truss.
  - 15) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
  - 16) ATTIC SPACE SHOWN IS DESIGNED AS UNINHABITABLE.

**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 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 66010668	Truss A3C	Truss Type ROOF TRUSS	Qty 1	Ply 1	SULLIVAN EUROPEAN LH PORC
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UFP Mid Atlantic LLC, Burlington, NC, MJUDD 7,640 s Feb 22 2016 MiTek Industries, Inc. Fri Apr 01 12:26:33 2016 Page 1  
 ID:MK13gbnawglQ8PinGX4tsLy46Tb-sSo6snt2gbrJTq7Y0VK3YC3ENhHrHQCRWety\_ezV5p4

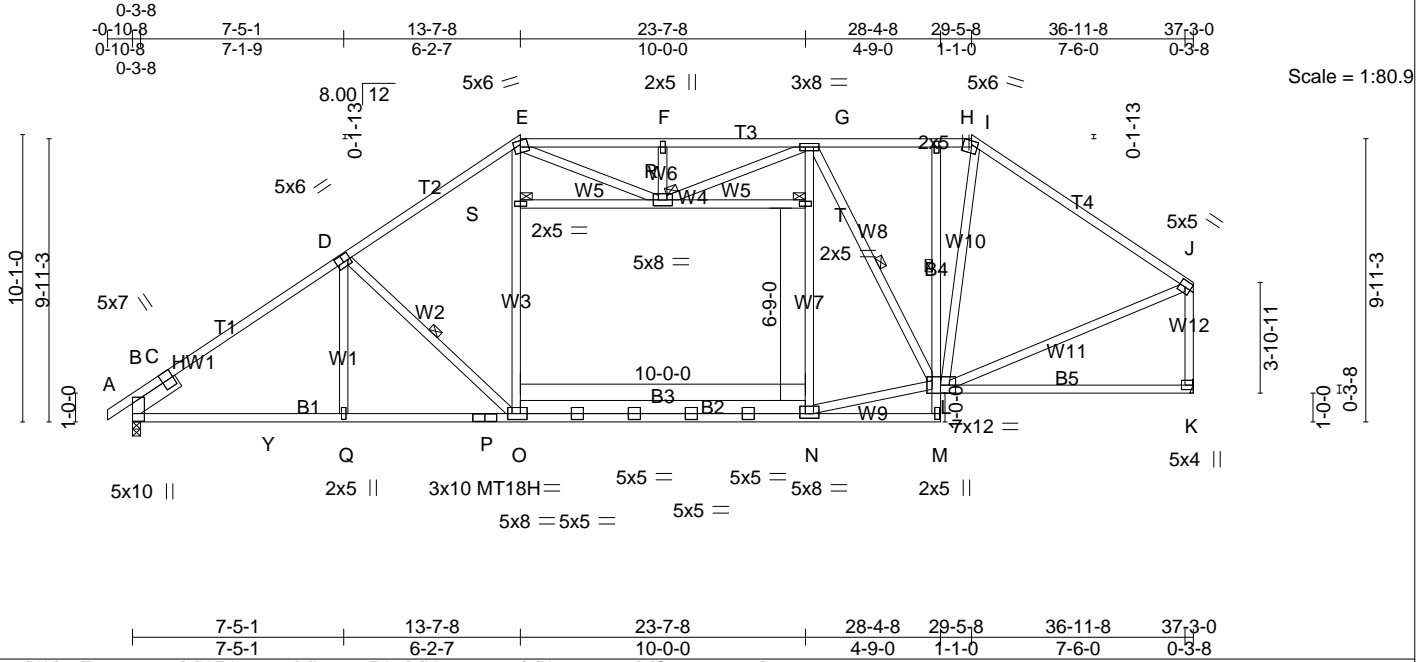


Plate Offsets (X,Y)-- [D:0-3-0,0-3-0], [K:Edge,0-3-8], [L:0-6-4,Edge], [M:0-2-8,0-1-0], [N:0-2-4,0-2-0], [O:0-1-12,0-2-8]

<b>LOADING</b> (psf)	<b>SPACING-</b>	<b>CSI.</b>	<b>DEFL.</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	2-0-0	TC 0.99	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.81	Vert(LL) 0.52 M-N >862 240	MT18H	244/190
BCLL 0.0 *	Lumber DOL 1.15	WB 0.82	Vert(TL) -0.55 O-Q >804 180		
BCDL 10.0	Rep Stress Incr YES	(Matrix-M)	Horz(TL) -0.08 B n/a n/a		
	Code IRC2009/TP12007		Attic -0.25 N-O 502 360		
				Weight: 293 lb	FT = 4%

<b>LUMBER-</b>	<b>BRACING-</b>
TOP CHORD 2x4 SP No.2 *Except* T4: 2x4 SP No.1, T1: 2x4 SP SS	TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (3-7-4 max.): E-I.
BOT CHORD 2x4 SP No.2 *Except* B1: 2x4 SP SS, B4: 2x4 SP No.3, B2: 2x4 SP No.1, B3: 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing. Except: 1 Row at midpt H-L 1 Row at midpt D-O, G-L
WEBS 2x4 SP No.3	WEBS 1 Row at midpt H-L
SLIDER Left 2x6 SP No.2 1-11-12	JOINTS 1 Brace at Jt(s): R, S, T

**REACTIONS.** (lb/size) B=1884/0-3-8, K=1760/Mechanical  
 Max Horz B=324(LC 4)  
 Max Uplift B=164(LC 5), K=86(LC 6)

**FORCES.** (lb) - Maximum Compression/Maximum Tension  
 TOP CHORD A-B=0/29, B-C=-266/3, C-D=-2545/202, D-E=-2197/196, E-F=-2140/334, F-G=-2139/333, G-H=-1449/174, H-I=-1448/174, I-J=-1768/153, J-K=-1669/137  
 BOT CHORD B-Y=-350/2006, Q-Y=-350/2006, P-Q=-349/2008, O-P=-349/2008, N-O=-265/1748, M-N=-131/0, L-M=-92/65, H-L=-117/159, K-L=-12/61  
 WEBS D-Q=0/216, D-O=-368/247, O-S=-16/619, E-S=-3/644, E-R=-351/587, N-T=-54/225, G-T=-30/235, L-N=-229/1845, G-L=-720/148, I-L=-157/708, J-L=-170/1421, R-S=-100/106, R-T=-117/54, F-R=-340/222, G-R=-191/477

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-05; 100mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; enclosed; MWFRS (low-rise) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
  - 3) Provide adequate drainage to prevent water ponding.
  - 4) All plates are MT20 plates unless otherwise indicated.
  - 5) The solid section of the plate is required to be placed over the splice line at joint(s) P.
  - 6) Plate(s) at joint(s) P checked for a plus or minus 5 degree rotation about its center.
  - 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). R-S, R-T
  - 10) Bottom chord live load (20.0 psf) and additional bottom chord dead load (0.0 psf) applied only to room. N-O
  - 11) Provide metal plate or equivalent at bearing(s) K to support reaction shown.
  - 12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 164 lb uplift at joint B and 86 lb uplift at joint K.
  - 13) This truss is designed in accordance with the 2009 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TP1 1.
  - 14) "Semi-rigid pitchbreaks with fixed heels" Member end fixity model was used in the analysis and design of this truss.
  - 15) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
  - 16) ATTIC SPACE SHOWN IS DESIGNED AS UNINHABITABLE.

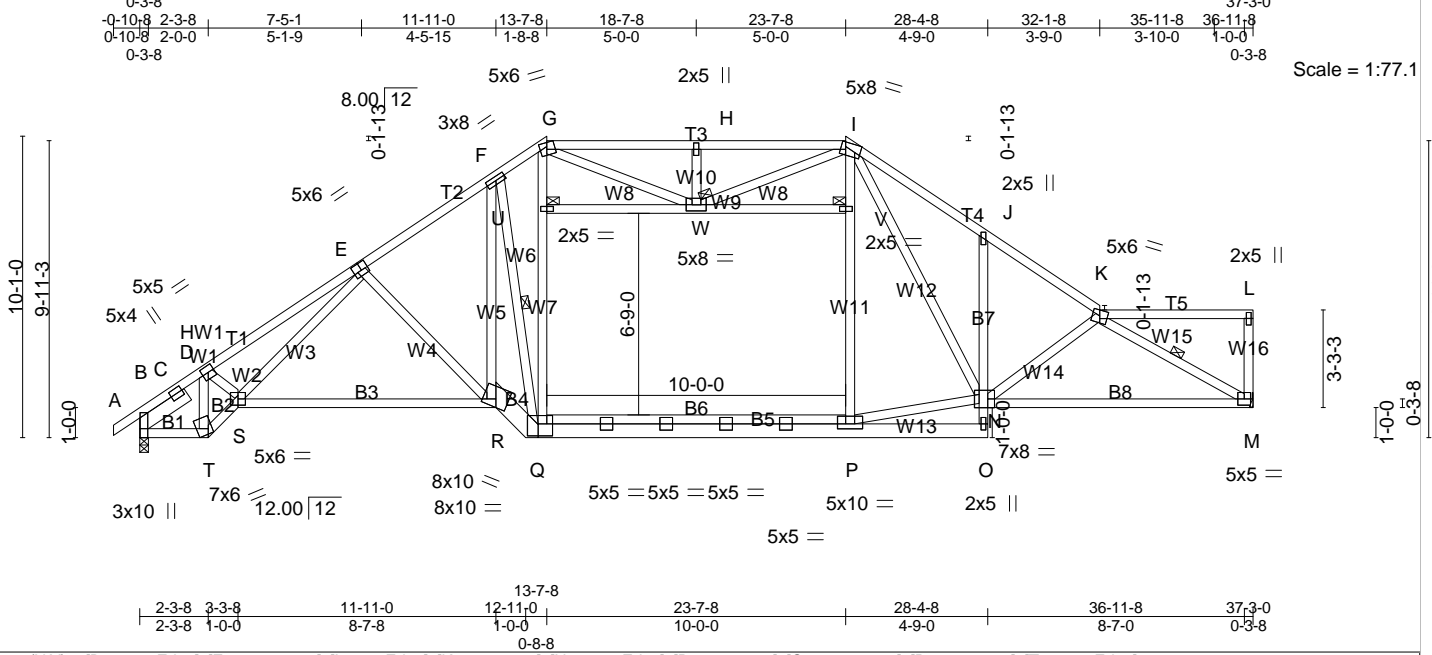
**LOAD CASE(S)** Standard





Job 66010668	Truss A4	Truss Type ROOF TRUSS	Qty 1	Ply 1	SULLIVAN EUROPEAN LH PORC
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UFP Mid Atlantic LLC, Burlington, NC, MJUDD  
 7.640 s Feb 22 2016 MiTek Industries, Inc. Fri Apr 01 12:26:35 2016 Page 1  
 ID:Mk13gbnawglQ8PlnGX4tsLy46Tb-oqwHsvJCD51i8Hx7xMXed9eBVuLkskzyM32XzV5p2



<b>LOADING</b> (psf)	<b>SPACING</b>	<b>CSI</b>	<b>DEFL</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	2-0-0	TC 0.71	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.97	Vert(LL) -0.33 R >999 240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.75	Vert(TL) -0.78 R-S >574 180		
BCDL 10.0	Rep Stress Incr YES	(Matrix-M)	Horz(TL) 0.25 M n/a n/a		
	Code IRC2009/TPI2007		Attic 0.20 P-Q 633 360		Weight: 313 lb FT = 4%

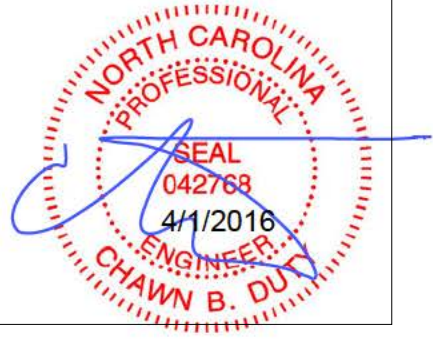
<b>LUMBER-</b>	<b>BRACING-</b>
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 2-4-8 oc purlins, except end verticals, and 2-0-0 oc purlins (3-8-5 max.); G-I, K-L.
BOT CHORD 2x4 SP No.2 *Except*	BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.
B4: 2x8 SP No.2, B5: 2x6 SP No.2, B7: 2x4 SP No.3	WEBS 1 Row at midpt F-Q, K-M
WEBS 2x4 SP No.3 *Except*	JOINTS 1 Brace at Jt(s): L, U, V, W
W11, W16, W9: 2x4 SP No.2	
SLIDER Left 2x6 SP No.2 1-11-12	

**REACTIONS.** (lb/size) B=1800/0-3-8, M=1746/Mechanical  
 Max Horz B=311(LC 4)  
 Max Uplift B=-165(LC 5), M=-133(LC 6)

**FORCES.** (lb) - Maximum Compression/Maximum Tension  
 TOP CHORD A-B=0/29, B-C=-7/119, C-D=-2196/190, D-E=-3383/357, E-F=-2489/230, F-G=-2060/252, G-H=-2180/254, H-I=-2180/254, I-J=-2676/340, J-K=-2719/197, L-M=-158/81, K-L=-61/26  
 BOT CHORD B-T=-306/1635, S-T=-378/2226, R-S=-316/2338, Q-R=-422/2298, P-Q=-133/1738, O-P=-109/81, N-O=-124/104, J-N=-199/203, M-N=-165/2520  
 WEBS D-T=-1735/257, D-S=-144/1757, E-S=-117/663, E-R=-494/229, P-V=-35/274, I-V=-20/302, N-P=-121/1735, I-N=-263/1023, K-N=-410/147, Q-U=-106/637, G-U=-94/663, U-W=-66/43, V-W=-80/54, H-W=-362/201, G-W=-245/563, I-W=-255/577, F-R=-452/1801, F-Q=-1706/500, K-M=-2885/233

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-05; 100mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; enclosed; MWFRS (low-rise) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
  - 3) Provide adequate drainage to prevent water ponding.
  - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 5) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - 6) Ceiling dead load (5.0 psf) on member(s). U-W, V-W
  - 7) Bottom chord live load (20.0 psf) and additional bottom chord dead load (0.0 psf) applied only to room. P-Q
  - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 165 lb uplift at joint B and 133 lb uplift at joint M.
  - 9) This truss is designed in accordance with the 2009 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
  - 10) "Semi-rigid pitchbreaks with fixed 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) ATTIC SPACE SHOWN IS DESIGNED AS UNINHABITABLE.

**LOAD CASE(S)** Standard





Job 66010668	Truss A6	Truss Type ROOF TRUSS	Qty 1	Ply 1	SULLIVAN EUROPEAN LH PORC
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UFP Mid Atlantic LLC, Burlington, NC, MJUDD Job Reference (optional) 7,640 s Feb 22 2016 MiTek Industries, Inc. Fri Apr 01 12:26:37 2016 Page 1

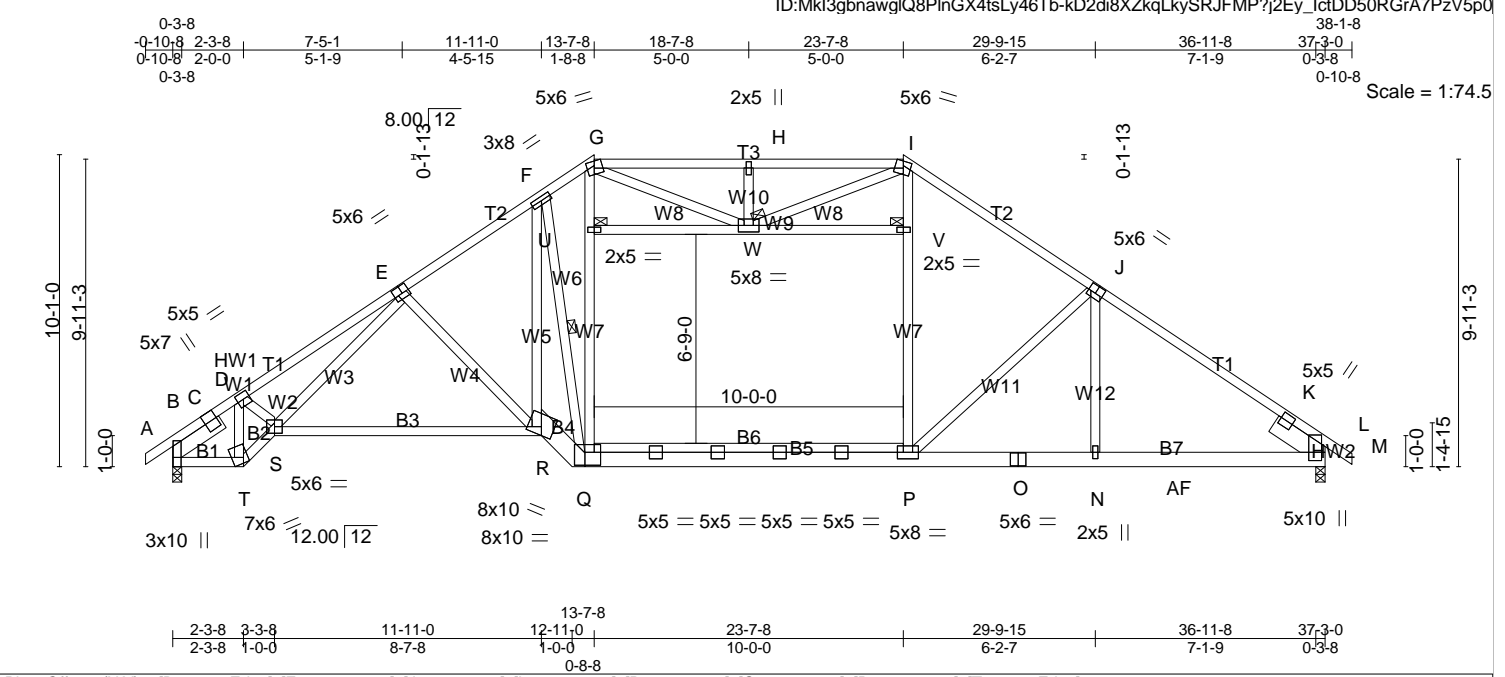


Plate Offsets (X,Y)-- [B:0-7-13,Edge], [E:0-2-12,0-3-0], [J:0-3-0,0-3-0], [L:0-5-9,0-1-5], [P:0-2-4,0-2-8], [Q:0-6-0,0-3-4], [R:0-5-0,0-3-4], [T:0-1-11,Edge]

<b>LOADING</b> (psf)	<b>SPACING</b>	<b>CSI</b>	<b>DEFL.</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	2-0-0	TC 0.82	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.94	Vert(LL) -0.36 N-P >999 240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.83	Vert(TL) -0.72 R-S >617 180		
BCDL 10.0	Rep Stress Incr YES	(Matrix-M)	Horz(TL) 0.23 L n/a n/a		
	Code IRC2009/TP12007		Attic -0.24 P-Q 517 360		Weight: 300 lb FT = 4%

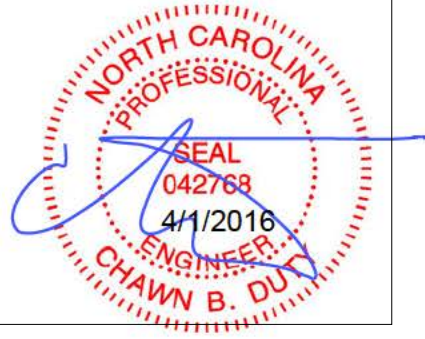
<b>LUMBER-</b>	<b>BRACING-</b>
TOP CHORD 2x4 SP No.2 *Except* T1: 2x4 SP No.1	TOP CHORD Structural wood sheathing directly applied, except 2-0-0 oc purlins (3-8-3 max.): G-I.
BOT CHORD 2x4 SP No.2 *Except* B4: 2x8 SP No.2, B5,B7: 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 2-2-0 oc bracing: R-S.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt F-Q
SLIDER Left 2x6 SP No.2 1-11-12, Right 2x8 SP No.2 1-10-10	JOINTS 1 Brace at Jt(s): U, V, W

**REACTIONS.** (lb/size) B=1823/0-3-8, L=1885/0-3-8  
Max Horz B=261(LC 4)  
Max Uplift B=-167(LC 5), L=-167(LC 6)

**FORCES.** (lb) - Maximum Compression/Maximum Tension  
TOP CHORD A-B=0/29, B-C=-6/120, C-D=-2230/194, D-E=-3427/334, E-F=-2531/227, F-G=-2108/255, G-H=-2202/254, H-I=-2202/254, I-J=-2245/201, J-K=-2562/215, K-L=-1068/0, L-M=0/29  
BOT CHORD B-T=-243/1656, S-T=-295/2252, R-S=-233/2374, Q-R=-363/2285, P-Q=-51/1788, O-P=-30/2041, N-O=-30/2041, N-AF=-30/2041, L-AF=-30/2041  
WEBS D-T=-1745/198, D-S=-87/1781, E-S=-97/665, E-R=-495/224, P-V=-2/642, I-V=0/667, J-P=-437/259, J-N=-45/197, Q-U=-110/654, G-U=-98/681, U-W=-87/48, V-W=-87/52, H-W=-361/208, I-W=-270/575, G-W=-239/548, F-R=-450/1762, F-Q=-1663/510

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-05; 100mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; enclosed; MWFRS (low-rise) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
  - 3) Provide adequate drainage to prevent water ponding.
  - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 5) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
  - 6) Ceiling dead load (5.0 psf) on member(s). U-W, V-W
  - 7) Bottom chord live load (20.0 psf) and additional bottom chord dead load (0.0 psf) applied only to room. P-Q
  - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 167 lb uplift at joint B and 167 lb uplift at joint L.
  - 9) This truss is designed in accordance with the 2009 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
  - 10) "Semi-rigid pitchbreaks with fixed 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) ATTIC SPACE SHOWN IS DESIGNED AS UNINHABITABLE.

**LOAD CASE(S)** Standard



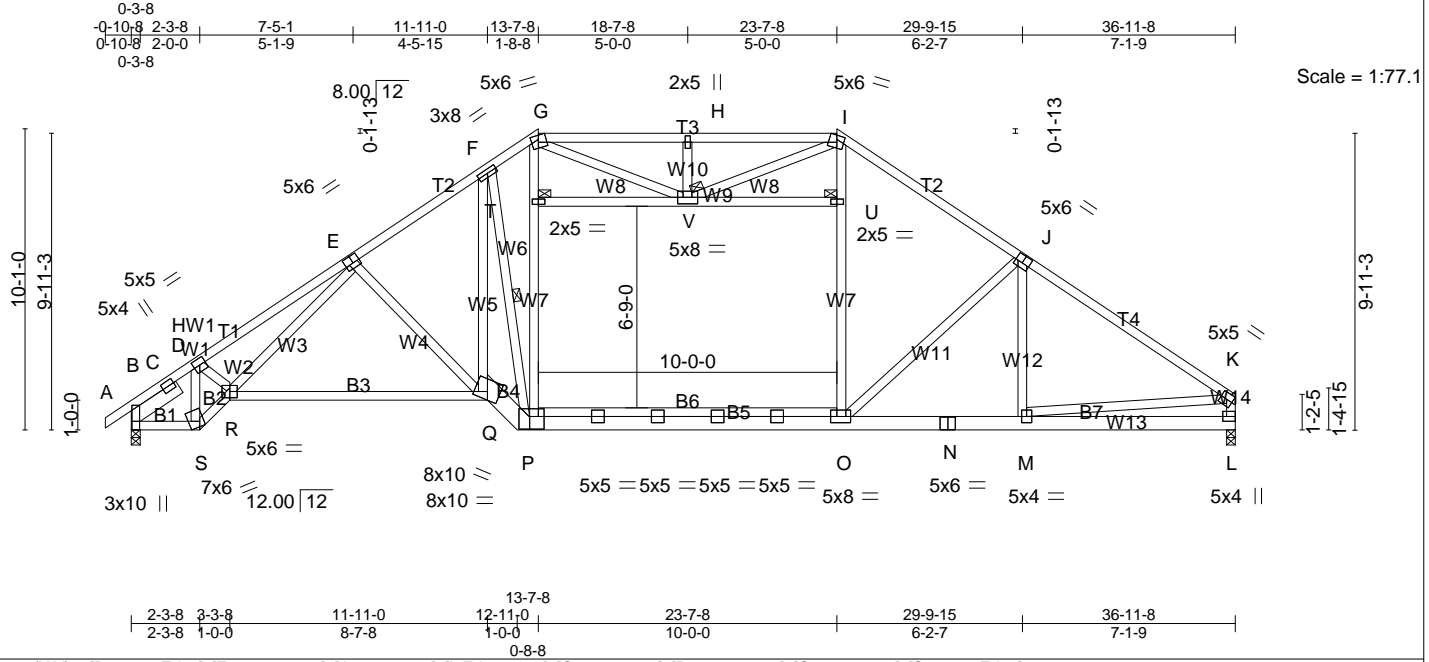


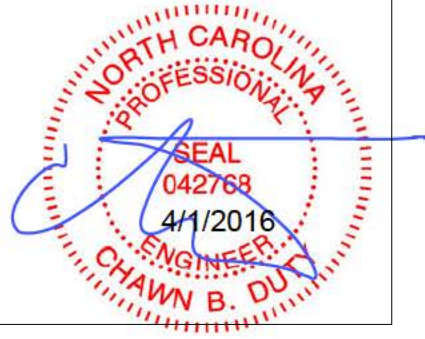
Plate Offsets (X,Y)-- [B:0-7-13,Edge], [E:0-2-12,0-3-0], [J:0-3-0,0-3-0], [L:Edge,0-3-8], [O:0-2-0,0-2-8], [P:0-5-12,0-3-4], [Q:0-5-0,0-3-4], [S:0-1-11,Edge]

<b>LOADING</b> (psf)	<b>SPACING-</b>	2-0-0	<b>CSI.</b>	<b>DEFL.</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL	1.15	TC 0.83	Vert(LL) -0.35	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.93	Vert(TL) -0.78		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.81	Horz(TL) 0.20		
BCDL 10.0	Code IRC2009/TP12007		(Matrix-M)	Attic -0.23		
					Weight: 302 lb	FT = 4%

<p><b>LUMBER-</b></p> <p>TOP CHORD 2x4 SP No.2</p> <p>BOT CHORD 2x4 SP No.2 *Except*</p> <p style="padding-left: 20px;">B4: 2x8 SP No.2, B5,B7: 2x6 SP No.2</p> <p>WEBS 2x4 SP No.3</p> <p>SLIDER Left 2x6 SP No.2 1-11-12</p> <p><b>REACTIONS.</b> (lb/size) B=1786/0-3-8, L=1736/0-3-8</p> <p style="padding-left: 20px;">Max Horz B=285(LC 4)</p> <p style="padding-left: 20px;">Max Uplift B=-166(LC 5), L=-126(LC 6)</p> <p><b>FORCES.</b> (lb) - Maximum Compression/Maximum Tension</p> <p>TOP CHORD A-B=0/29, B-C=6/118, C-D=-2177/192, D-E=-3355/335, E-F=-2463/226, F-G=-2035/254, G-H=-2139/254, H-I=-2139/254, I-J=-2159/202, J-K=-2359/191, K-L=-1641/169</p> <p>BOT CHORD B-S=-268/1622, R-S=-329/2208, Q-R=-265/2316, P-Q=-396/2283, O-P=-79/1715, N-O=-43/1873, M-N=-43/1873, L-M=-58/292</p> <p>WEBS D-S=-1722/222, D-R=-109/1742, E-R=-100/661, E-Q=-493/224, O-U=4/594, I-U=0/620, J-O=-319/246, J-M=-197/160, P-T=-109/638, G-T=-97/663, T-V=-65/48, U-V=-103/51, H-V=-366/207, I-V=-268/600, G-V=-240/535, F-Q=-468/1824, F-P=-1734/524, K-M=0/1596</p>	<p><b>BRACING-</b></p> <p>TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (3-8-9 max.): G-I.</p> <p>BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 2-2-0 oc bracing: Q-R.</p> <p>WEBS 1 Row at midpt F-P</p> <p>JOINTS 1 Brace at Jt(s): T, U, V</p>
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- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-05; 100mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; enclosed; MWFRS (low-rise) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
  - 3) Provide adequate drainage to prevent water ponding.
  - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 5) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - 6) Ceiling dead load (5.0 psf) on member(s). T-V, U-V
  - 7) Bottom chord live load (20.0 psf) and additional bottom chord dead load (0.0 psf) applied only to room. O-P
  - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 166 lb uplift at joint B and 126 lb uplift at joint L.
  - 9) This truss is designed in accordance with the 2009 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TP1 1.
  - 10) \*Semi-rigid pitchbreaks with fixed 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) ATTIC SPACE SHOWN IS DESIGNED AS UNINHABITABLE.

**LOAD CASE(S)** Standard



Job 66010668	Truss A9	Truss Type ROOF TRUSS	Qty 1	Ply 1	SULLIVAN EUROPEAN LH PORC
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UFP Mid Atlantic LLC, Burlington, NC, MJUDD  
 7.640 s Feb 22 2016 MiTek Industries, Inc. Fri Apr 01 12:26:40 2016 Page 1  
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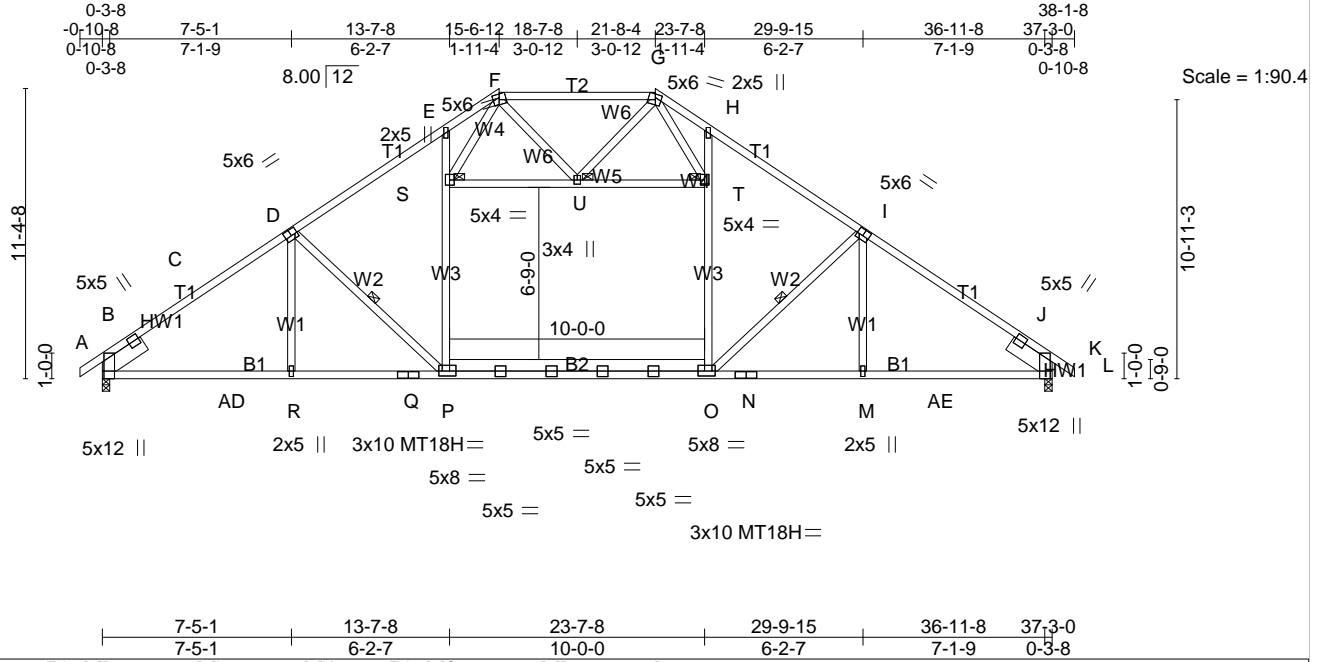


Plate Offsets (X,Y)-- [B:0-7-13,Edge], [D:0-3-0,0-3-0], [I:0-3-0,0-3-0], [K:0-7-13,Edge], [O:0-1-8,0-2-4], [P:0-1-8,0-2-4]

<b>LOADING</b> (psf)	<b>SPACING-</b> 2-0-0	<b>CSI.</b>	<b>DEFL.</b> in (loc)	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL 1.15	TC 0.91	Vert(LL) -0.51 P-R >873 240	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.95	Vert(TL) -0.67 P-R >662 180	MT18H	244/190
BCLL 0.0 *	Rep Stress Incr YES	WB 0.70	Horz(TL) 0.16 K n/a n/a		
BCDL 10.0	Code IRC2009/TP12007	(Matrix-M)	Attic -0.38 O-P 326 360		Weight: 266 lb FT = 4%

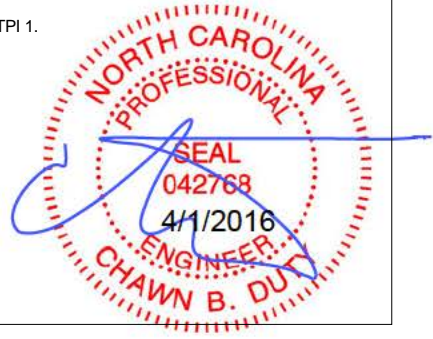
<b>LUMBER-</b>	<b>BRACING-</b>
TOP CHORD 2x4 SP SS *Except* T2: 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied, except 2-0-0 oc purlins (3-10-14 max.): F-G.
BOT CHORD 2x4 SP SS *Except* B2: 2x4 SP No.1, B3: 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.
WEBS 2x4 SP No.3 *Except* W3: 2x4 SP No.2	WEBS 1 Row at midpt D-P, I-O
SLIDER Left 2x8 SP No.2 1-11-12, Right 2x8 SP No.2 1-11-12	JOINTS 1 Brace at Jt(s): S, T, U

**REACTIONS.** (lb/size) B=1908/0-3-8, K=1908/0-3-8  
 Max Horz B=298(LC 4)  
 Max Uplift B=-176(LC 5), K=-176(LC 6)

**FORCES.** (lb) - Maximum Compression/Maximum Tension  
 TOP CHORD A-B=0/29, B-C=-457/0, C-D=-2575/223, D-E=-2242/221, E-F=-2162/340, G-H=-2162/340, H-I=-2242/221, I-J=-2575/223, J-K=-457/0, K-L=0/29,  
 F-G=-1286/173  
 BOT CHORD B-AD=-178/2028, R-AD=-178/2028, Q-R=-178/2030, P-Q=-178/2030, O-P=0/1790, N-O=-40/2030, M-N=-40/2030, M-AE=-40/2028,  
 K-AE=-40/2028  
 WEBS D-R=-13/209, D-P=-436/249, P-S=-17/631, E-S=-230/146, O-T=-17/631, H-T=-230/146, I-O=-436/250, I-M=-14/209, S-U=-532/111,  
 T-U=-532/111, G-U=-93/154, F-U=-93/154, F-S=-177/1027, G-T=-177/1027

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-05; 100mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; enclosed; MWFRS (low-rise) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
  - 3) Provide adequate drainage to prevent water ponding.
  - 4) All plates are MT20 unless otherwise indicated.
  - 5) The solid section of the plate is required to be placed over the splice line at joint(s) Q, N.
  - 6) Plate(s) at joint(s) Q and N checked for a plus or minus 5 degree rotation about its center.
  - 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), S-U, T-U
  - 10) Bottom chord live load (20.0 psf) and additional bottom chord dead load (0.0 psf) applied only to room, O-P
  - 11) Provide mechanical connection by others) of truss to bearing plate capable of withstanding 176 lb uplift at joint B and 176 lb uplift at joint K.
  - 12) This truss is designed in accordance with the 2009 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TP1 1.
  - 13) "Semi-rigid pitchbreaks with fixed heels" Member end fixity model was used in the analysis and design of this truss.
  - 14) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
  - 15) ATTIC SPACE SHOWN IS DESIGNED AS UNINHABITABLE.

**LOAD CASE(S)** Standard



Job 66010668	Truss A10	Truss Type HIP SUPPORTED GABLE	Qty 1	Ply 1	SULLIVAN EUROPEAN LH PORC
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UFP Mid Atlantic LLC, Burlington, NC, MJUDD  
 Job Reference (optional)  
 7,640 s Feb 22 2016 MiTek Industries, Inc. Fri Apr 01 12:26:42 2016 Page 1  
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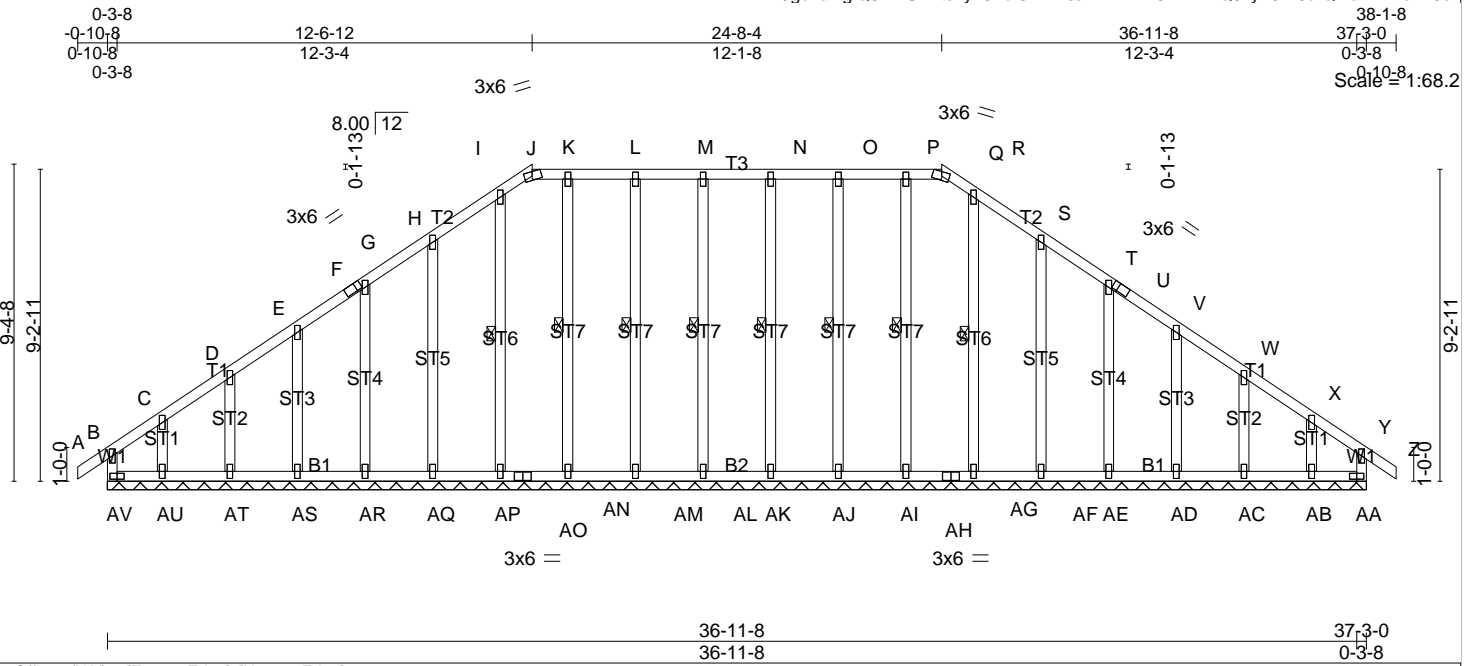


Plate Offsets (X,Y)-- [F:0-2-1,Edge], [U:0-2-1,Edge]

<b>LOADING</b> (psf)	<b>SPACING</b>	<b>CSI</b>	<b>DEFL</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	2-0-0	TC 0.20	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.10	Vert(LL) -0.00 Z n/r 120		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.12	Vert(TL) -0.01 Z n/r 90		
BCDL 10.0	Rep Stress Incr YES	(Matrix)	Horz(TL) 0.01 AA n/a n/a		
	Code IRC2009/TPI2007			Weight: 288 lb	FT = 4%

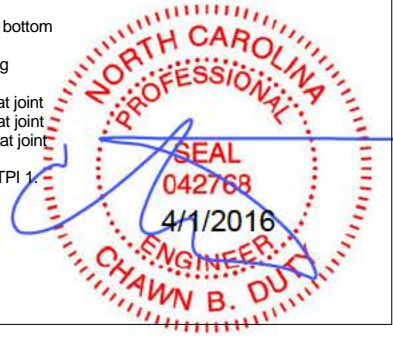
<b>LUMBER-</b>	<b>BRACING-</b>
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): J-Q.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt M-AL, L-AM, K-AN, I-AP, N-AK, O-AJ, P-AI, R-AG
OTHERS 2x4 SP No.3	

**REACTIONS.** (lb/size) AV=134/37-3-0, AA=134/37-3-0, AL=160/37-3-0, AM=159/37-3-0, AN=160/37-3-0, AP=159/37-3-0, AQ=160/37-3-0, AR=160/37-3-0, AS=158/37-3-0, AT=167/37-3-0, AU=122/37-3-0, AK=160/37-3-0, AJ=159/37-3-0, AI=160/37-3-0, AG=159/37-3-0, AF=160/37-3-0, AE=160/37-3-0, AD=158/37-3-0, AC=167/37-3-0, AB=122/37-3-0  
 Max Horz AV=271(LC 4)  
 Max Uplift AV=154(LC 3), AA=90(LC 4), AL=41(LC 4), AM=52(LC 3), AN=24(LC 4), AP=3(LC 4), AQ=78(LC 5), AR=59(LC 5), AS=66(LC 5), AT=48(LC 5), AU=151(LC 4), AK=41(LC 4), AJ=50(LC 3), AI=17(LC 4), AF=80(LC 6), AE=59(LC 6), AD=65(LC 6), AC=51(LC 6), AB=128(LC 6)  
 Max Grav AV=201(LC 4), AA=136(LC 3), AL=160(LC 9), AM=162(LC 10), AN=160(LC 1), AP=159(LC 1), AQ=160(LC 9), AR=160(LC 1), AS=158(LC 1), AT=167(LC 9), AU=151(LC 3), AK=160(LC 10), AJ=162(LC 9), AI=160(LC 1), AG=159(LC 1), AF=160(LC 10), AE=160(LC 1), AD=158(LC 1), AC=167(LC 10), AB=122(LC 1)

**FORCES.** (lb) - Maximum Compression/Maximum Tension  
 TOP CHORD B-AV=141/123, A-B=0/34, B-C=214/181, C-D=-142/148, D-E=-107/147, E-F=65/143, F-G=-53/150, G-H=39/191, H-I=-39/241, I-J=35/220, J-K=7/219, K-L=-5/221, L-M=5/221, M-N=5/221, N-O=5/221, O-P=5/221, P-Q=-7/219, Q-R=35/219, R-S=-39/225, S-T=-39/166, T-U=0/124, U-V=-39/118, V-W=-47/88, W-X=-84/90, X-Y=-146/113, Y-Z=0/34, Y-AA=-119/73  
 BOT CHORD AU-AV=81/142, AT-AU=81/142, AS-AT=81/142, AR-AS=81/142, AQ-AR=81/142, AP-AQ=81/142, AO-AP=81/142, AN-AO=81/142, AM-AN=81/142, AL-AM=81/142, AK-AL=81/142, AJ-AK=81/142, AI-AJ=81/142, AH-AI=81/142, AG-AH=81/142, AF-AG=81/142, AE-AF=81/142, AD-AE=81/142, AC-AD=81/142, AB-AC=81/142, AA-AB=81/142  
 WEBS M-AL=120/65, L-AM=122/76, K-AN=120/48, I-AP=119/27, H-AQ=120/102, G-AR=120/83, E-AS=119/88, D-AT=126/81, C-AU=89/118, N-AK=120/65, O-AJ=122/74, P-AI=120/41, R-AG=119/4, S-AF=120/104, T-AE=120/83, V-AD=119/87, W-AC=126/83, X-AB=89/110

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-05; 100mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; enclosed; MWFRS (low-rise) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
  - 3) Truss designed for wind loads in the plane of the truss only.
  - 4) Provide adequate drainage to prevent water ponding.
  - 5) All plates are 2x5 MT20 unless otherwise indicated.
  - 6) Gable requires continuous bottom chord bearing.
  - 7) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
  - 8) Gable studs spaced at 2-0-0 oc.
  - 9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 10) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - 11) Bearing at joint(s) AV, AA considers parallel to grain value using ANSITPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
  - 12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 154 lb uplift at joint AV, 90 lb uplift at joint AA, 41 lb uplift at joint AL, 52 lb uplift at joint AM, 24 lb uplift at joint AN, 3 lb uplift at joint AP, 78 lb uplift at joint AQ, 59 lb uplift at joint AR, 66 lb uplift at joint AS, 48 lb uplift at joint AT, 151 lb uplift at joint AU, 41 lb uplift at joint AK, 50 lb uplift at joint AJ, 17 lb uplift at joint AI, 80 lb uplift at joint AF, 59 lb uplift at joint AE, 65 lb uplift at joint AD, 51 lb uplift at joint AC and 128 lb uplift at joint AB.
  - 13) This truss is designed in accordance with the 2009 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSITPI 1.
  - 14) "Semi-rigid pitchbreaks with fixed heels" Member end fixity model was used in the analysis and design of this truss.
  - 15) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

**LOAD CASE(S)** Standard



This truss is to be fabricated per ANSITPI 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 66010668	Truss A11	Truss Type HIP SUPPORTED GABLE	Qty 1	Ply 1	SULLIVAN EUROPEAN LH PORC
UFP Mid Atlantic LLC, Burlington, NC, MJUDD					Job Reference (optional) 7,640 s Feb 22 2016 MiTek Industries, Inc. Fri Apr 01 12:26:44 2016 Page 1
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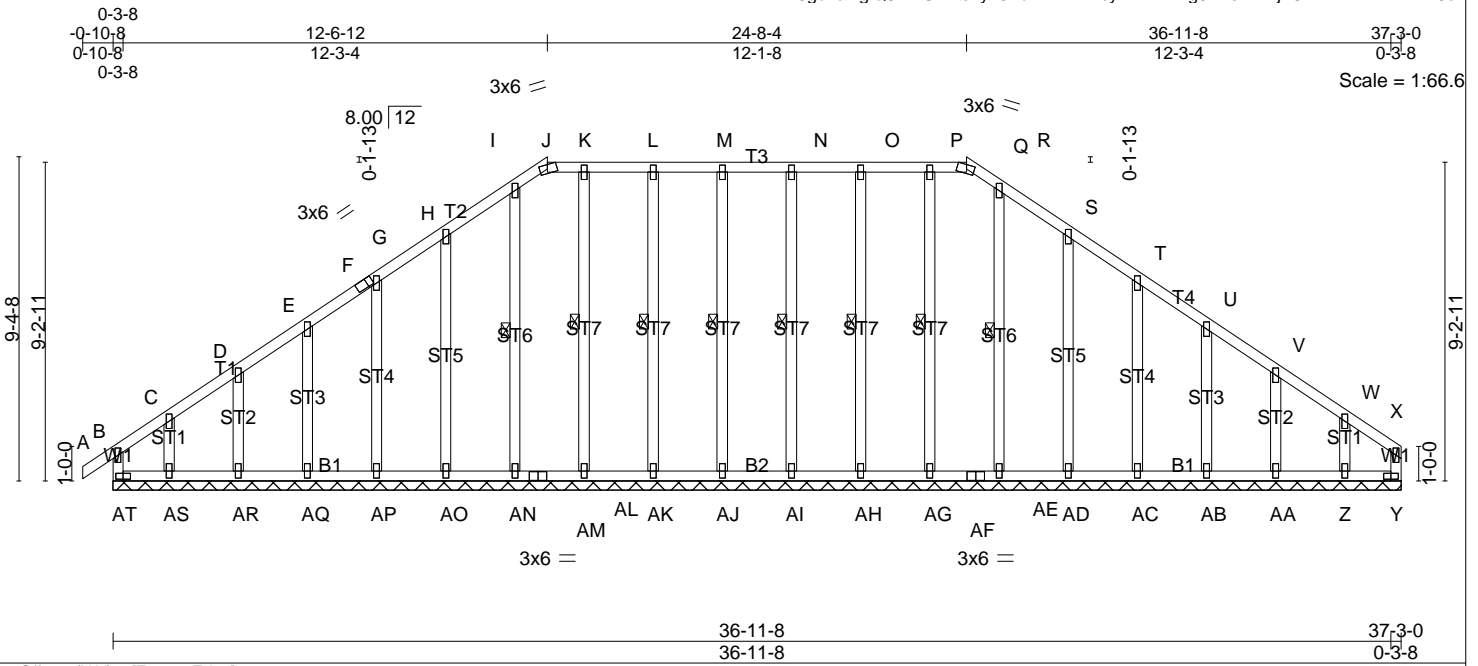


Plate Offsets (X,Y)-- [F:0-2-1,Edge]	36-11-8	37-3-0
	36-11-8	0-3-8

<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 20.0	Plate Grip DOL 1.15	TC 0.21	Vert(LL) -0.00 A n/r 120	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.10	Vert(TL) -0.00 A n/r 90		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.12	Horz(TL) 0.01 Y n/a n/a		
BCDL 10.0	Code IRC2009/TP12007	(Matrix)			
				Weight: 286 lb	FT = 4%

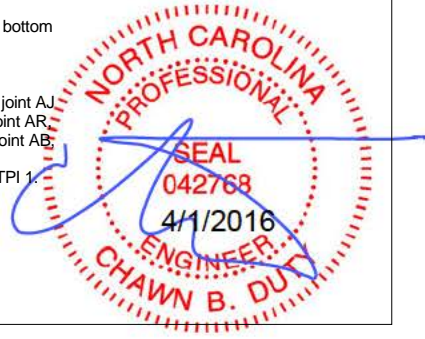
<b>LUMBER-</b>	<b>BRACING-</b>
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): J-Q.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt M-AJ, L-AK, K-AL, I-AN, N-AI, O-AH, P-AG, R-AE
OTHERS 2x4 SP No.3	

**REACTIONS.** (lb/size) AT=141/37-3-0, Y=54/37-3-0, AJ=160/37-3-0, AK=160/37-3-0, AL=158/37-3-0, AN=156/37-3-0, AO=160/37-3-0, AP=160/37-3-0, AQ=158/37-3-0, AR=168/37-3-0, AS=118/37-3-0, AI=160/37-3-0, AH=160/37-3-0, AG=158/37-3-0, AE=156/37-3-0, AD=160/37-3-0, AC=160/37-3-0, AB=159/37-3-0, AA=163/37-3-0, Z=148/37-3-0  
Max Horz AT=281(LC 4)  
Max Uplift AT=156(LC 3), Y=81(LC 4), AJ=41(LC 4), AK=52(LC 3), AL=26(LC 4), AN=6(LC 4), AO=78(LC 5), AP=59(LC 5), AQ=66(LC 5), AR=47(LC 5), AS=156(LC 4), AI=41(LC 4), AH=50(LC 3), AG=19(LC 4), AD=80(LC 6), AC=59(LC 6), AB=66(LC 6), AA=49(LC 6), Z=136(LC 6)  
Max Grav AT=209(LC 4), Y=140(LC 3), AJ=160(LC 9), AK=162(LC 10), AL=159(LC 9), AN=158(LC 9), AO=160(LC 1), AP=160(LC 9), AQ=158(LC 9), AR=168(LC 1), AS=152(LC 3), AI=160(LC 10), AH=162(LC 9), AG=158(LC 1), AE=156(LC 1), AD=160(LC 10), AC=160(LC 1), AB=159(LC 1), AA=163(LC 10), Z=148(LC 1)

**FORCES.** (lb) - Maximum Compression/Maximum Tension  
TOP CHORD B-AT=148/125, A-B=0/34, B-C=224/184, C-D=-150/150, D-E=-115/149, E-F=73/139, F-G=-61/145, G-H=-44/186, H-I=44/236, I-J=-39/217, J-K=-12/215, K-L=-9/217, L-M=9/217, M-N=9/217, N-O=9/217, O-P=9/217, P-Q=12/215, Q-R=40/215, R-S=-45/220, S-T=-45/162, T-U=44/121, U-V=-45/80, V-W=83/83, W-X=-141/101, X-Y=92/60  
BOT CHORD AS-AT=84/126, AR-AS=84/126, AQ-AR=84/126, AP-AQ=84/126, AN-AO=84/126, AM-AN=84/126, AL-AM=84/126, AK-AL=84/126, AJ-AK=84/126, AI-AJ=84/126, AH-AI=84/126, AG-AH=84/126, AF-AG=84/126, AE-AF=84/126, AD-AE=84/126, AC-AD=84/126, AB-AC=84/126, AA-AB=84/126, Z-AA=84/126, Y-Z=84/126  
WEBS M-AJ=120/65, L-AK=122/76, K-AL=119/50, I-AN=118/30, H-AO=120/102, G-AP=120/83, E-AQ=119/88, D-AR=126/81, C-AS=88/119, N-AI=120/65, O-AH=122/74, P-AG=118/43, R-AE=116/3, S-AD=120/103, T-AC=120/83, U-AB=120/88, V-AA=122/82, W-Z=111/116

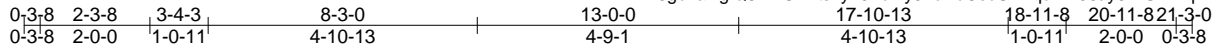
- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-05; 100mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; enclosed; MWFRS (low-rise) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
  - 3) Truss designed for wind loads in the plane of the truss only.
  - 4) Provide adequate drainage to prevent water ponding.
  - 5) All plates are 2x5 MT20 unless otherwise indicated.
  - 6) Gable requires continuous bottom chord bearing.
  - 7) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
  - 8) Gable studs spaced at 2-0-0 oc.
  - 9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 10) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - 11) Bearing at joint(s) AT, Y considers parallel to grain value using ANSI/TP1 1 angle to grain formula. Building designer should verify capacity of bearing surface.
  - 12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 156 lb uplift at joint AT, 81 lb uplift at joint Y, 41 lb uplift at joint AJ, 52 lb uplift at joint AK, 26 lb uplift at joint AL, 6 lb uplift at joint AN, 78 lb uplift at joint AO, 59 lb uplift at joint AP, 66 lb uplift at joint AQ, 47 lb uplift at joint AR, 156 lb uplift at joint AS, 41 lb uplift at joint AI, 50 lb uplift at joint AH, 19 lb uplift at joint AG, 80 lb uplift at joint AD, 59 lb uplift at joint AC, 66 lb uplift at joint AB, 49 lb uplift at joint AA and 136 lb uplift at joint Z.
  - 13) This truss is designed in accordance with the 2009 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TP1 1.
  - 14) "Semi-rigid pitchbreaks with fixed heels" Member end fixity model was used in the analysis and design of this truss.
  - 15) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

**LOAD CASE(S)** Standard



Job <b>66010668</b>	Truss <b>B1</b>	Truss Type <b>Hip Girder</b>	Qty <b>1</b>	Ply <b>3</b>	<b>SULLIVAN EUROPEAN LH PORC</b>
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UFP Mid Atlantic LLC, Burlington, NC, MJUDD ID: Mkl3gbnawglQ8PlnGX4tSLy46Tb-zy51bDdCcCbUTXqd2Hl36ay6WGxKzqKkLV9W8wOzV5ot 7.640 s Feb 22 2016 MiTek Industries, Inc. Fri Apr 01 12:26:46 2016 Page 1



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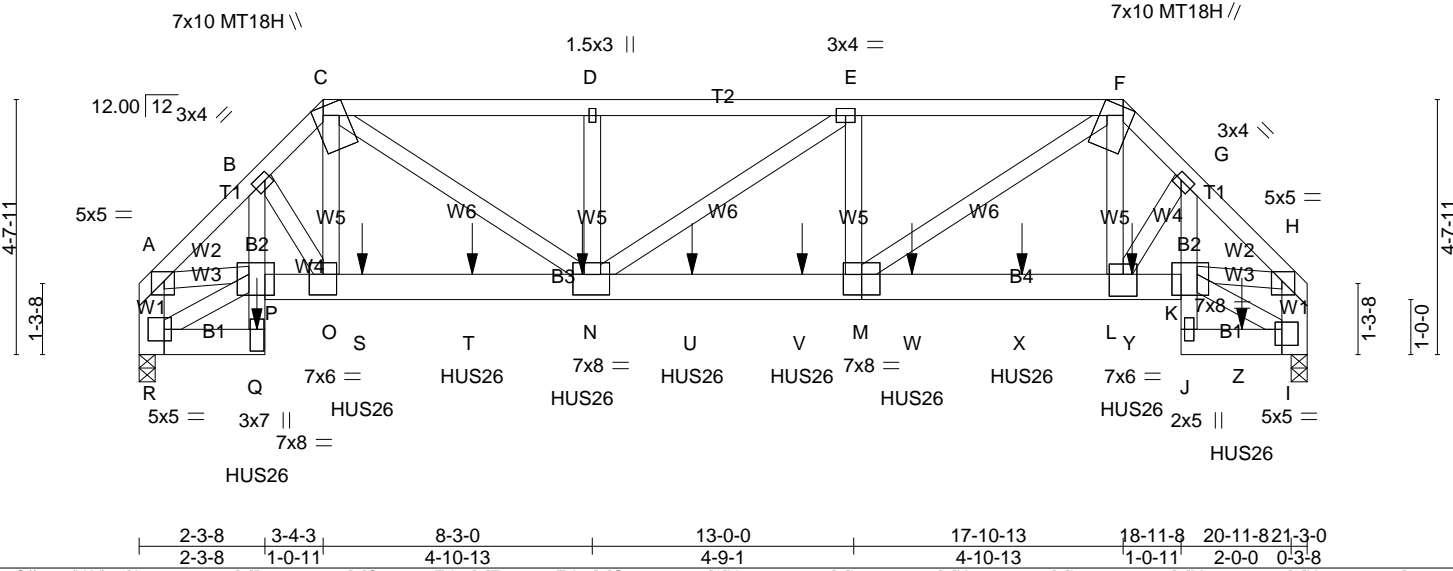


Plate Offsets (X,Y)-- [A:0-2-12,0-2-0], [B:0-1-4,0-1-8], [C:0-1-13,Edge], [F:0-1-13,Edge], [G:0-1-4,0-1-8], [H:0-2-12,0-2-0], [I:0-1-8,0-3-8], [K:0-5-8,0-4-8], [L:0-3-0,0-4-12], [M:0-4-0,0-4-8], [N:0-2-8,0-4-8], [O:0-3-0,0-4-8], [P:0-5-8,0-4-8], [Q:0-4-12,0-1-8], [R:0-1-8,0-2-8]

<b>LOADING</b> (psf)	<b>SPACING-</b>	<b>CSI.</b>	<b>DEFL.</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	2-0-0	TC 0.72	in (loc) l/def L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.71	Vert(LL) -0.18 M-N >999 240	MT18H	244/190
BCLL 0.0 *	Lumber DOL 1.15	WB 0.67	Vert(TL) -0.40 M-N >623 180		
BCDL 10.0	Rep Stress Incr NO	(Matrix-M)	Horz(TL) 0.20 I n/a n/a		
	Code IRC2009/TPI2007			Weight: 466 lb	FT = 4%

**LUMBER-**  
TOP CHORD 2x4 SP No.2  
BOT CHORD 2x4 SP No.2 \*Except\*  
B1: 2x6 SP No.2, B3,B4: 2x6 SP SS  
WEBS 2x4 SP No.3 \*Except\*  
W6,W2: 2x4 SP No.2, W1: 2x6 SP No.2

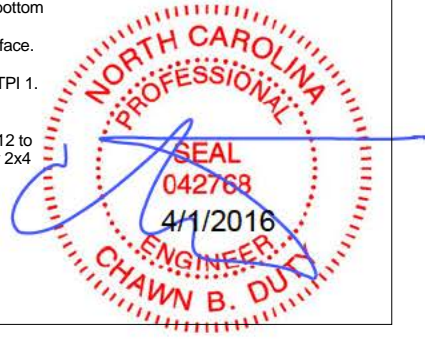
**BRACING-**  
TOP CHORD Structural wood sheathing directly applied or 5-10-6 oc purlins, except end verticals, and 2-0-0 oc purlins (5-1-12 max.): C-F.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** (lb/size) R=8831/0-3-8, I=9812/0-3-8  
Max Horz R=137(LC 12)  
Max Uplift R=931(LC 4), I=946(LC 3)

**FORCES.** (lb) - Maximum Compression/Maximum Tension  
TOP CHORD A-B=-12193/1397, B-C=-11443/1342, C-D=-14785/1641, D-E=-14785/1641, E-F=-15048/1555, F-G=-11921/1220, G-H=-12370/1219,  
A-R=-8493/978, H-I=-8623/856  
BOT CHORD Q-R=-8970/6, P-Q=-138/1774, B-P=-114/1107, O-P=-1040/8355, O-S=-1015/8207, S-T=-1015/8207, N-T=-1015/8207, N-U=-1595/15052,  
U-V=-1595/15052, M-V=-1595/15052, M-W=-878/8543, W-X=-878/8543, L-X=-878/8543, L-Y=-833/8373, K-Y=-849/8556, J-K=-49/753,  
G-K=-38/629, J-Z=-70/775, I-Z=-70/775  
WEBS B-O=-754/104, C-O=-426/3511, C-N=-860/7921, D-N=-254/170, E-N=-340/93, E-M=-139/218, F-M=-858/7907, F-L=-364/3788, G-L=-447/86,  
P-R=-466/170, A-P=-908/8207, I-K=-332/41, H-K=-806/8145

- NOTES-**
- 3-ply truss to be connected together with 16d (0.131"x 3.5") nails as follows:  
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc.  
Bottom chords connected as follows: 2x6 - 3 rows staggered at 0-5-0 oc, 2x4 - 2 rows staggered at 0-4-0 oc.  
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc, Except member L-F 2x4 - 2 rows staggered at 0-7-0 oc.
  - All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
  - Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-05; 100mph; TCDL=6.0psf; BCCL=6.0psf; h=25ft; Cat. II; Exp B; enclosed; MWFRS (low-rise) gable end zone; cantilever left and right exposed  
: end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
  - Provide adequate drainage to prevent water ponding.
  - All plates are MT20 plates unless otherwise indicated.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - Bearing at joint(s) R, I considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 931 lb uplift at joint R and 946 lb uplift at joint I.
  - 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.
  - Use USP HUS26 (With 16d nails into Girder & 16d nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 2-1-12 from the left end to 20-0-12 to connect truss(es) A1A (1 ply 2x4 SP), A2 (1 ply 2x4 SP), A2A (1 ply 2x4 SP), A2B (1 ply 2x4 SP), A3C (1 ply 2x4 SP), A3B (1 ply 2x4 SP), A3A (1 ply 2x4 SP), A3 (1 ply 2x4 SP), A4 (1 ply 2x4 SP), A5 (1 ply 2x4 SP) to back face of bottom chord.
  - Fill all nail holes where hanger is in contact with lumber.

**LOAD CASE(S)** Standard  
1) Dead + Roof Live (balanced) + Uninhab. Attic Storage + Attic Floor: Lumber Increase=1.15, Plate Increase=1.15



Continued on page 2

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 66010668	Truss B1	Truss Type Hip Girder	Qty 1	Ply 3	SULLIVAN EUROPEAN LH PORC
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UFP Mid Atlantic LLC, Burlington, NC, MJUDD

Job Reference (optional)

7.640 s Feb 22 2016 MiTek Industries, Inc. Fri Apr 01 12:26:46 2016 Page 2

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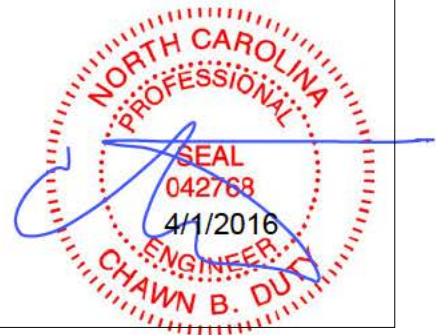
**LOAD CASE(S)** Standard

Uniform Loads (plf)

Vert: A-C=-60, C-F=-60, F-H=-60, Q-R=-20, K-P=-20, I-J=-20

Concentrated Loads (lb)

Vert: Q=-1835(B) N=-1573(B) S=-1481(B) T=-1587(B) U=-1740(B) V=-1740(B) W=-1826(B) X=-1740(B) Y=-1726(B) Z=-1733(B)



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.



UFP Mid Atlantic LLC, Burlington, NC, MJUDD 7,640 s Feb 22 2016 MiTek Industries, Inc. Fri Apr 01 12:26:47 2016 Page 1  
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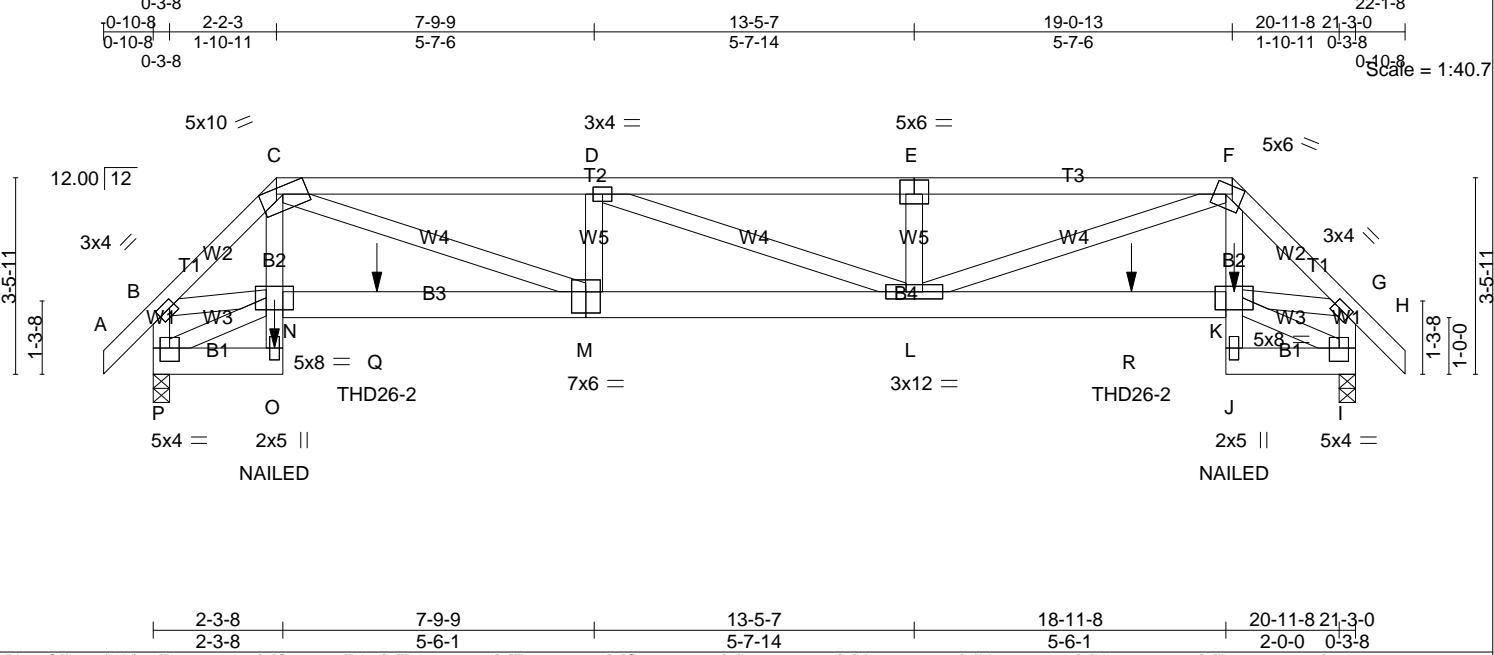


Plate Offsets (X,Y)-- [B:0-1-4,0-1-8], [C:0-3-11,Edge], [E:0-3-0,0-3-0], [F:0-3-0,0-0-0], [G:0-1-4,0-1-8], [I:0-2-0,0-2-12], [K:0-5-12,0-2-8], [M:0-3-0,0-4-8], [N:0-5-12,0-2-8], [P:0-2-0,0-2-12]

<b>LOADING</b> (psf)	<b>SPACING</b>	<b>CSI</b>	<b>DEFL</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	2-0-0	TC 0.70	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.78	Vert(LL) 0.15 L >999 240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.64	Vert(TL) -0.31 L-M >805 180		
BCDL 10.0	Rep Stress Incr NO	(Matrix-M)	Horz(TL) 0.13 I n/a n/a		
	Code IRC2009/TP12007				Weight: 140 lb FT = 4%

**LUMBER-**  
 TOP CHORD 2x4 SP No.2  
 BOT CHORD 2x6 SP No.2 \*Except\*  
 B2: 2x4 SP No.3  
 WEBS 2x4 SP No.3

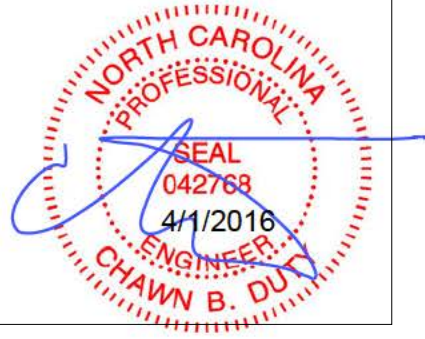
**BRACING-**  
 TOP CHORD Structural wood sheathing directly applied or 4-4-1 oc purlins, except end verticals, and 2-0-0 oc purlins (2-11-1 max.): C-F.  
 BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

**REACTIONS.** (lb/size) P=1389/0-3-8, I=1385/0-3-8  
 Max Horz P=106(LC 4)  
 Max Uplift P=-441(LC 4), I=-448(LC 3)

**FORCES.** (lb) - Maximum Compression/Maximum Tension  
 TOP CHORD A-B=0/43, B-C=-1848/694, C-D=-2792/936, D-E=-2797/921, E-F=-2798/921, F-G=-1846/636, G-H=0/43, B-P=-1397/504, G-I=-1395/464  
 BOT CHORD O-P=-72/32, N-O=-85/113, C-N=-234/508, N-Q=-551/1352, M-Q=-550/1350, L-M=-957/2814, L-R=-483/1353, K-R=-484/1354, J-K=0/27, F-K=-201/517, I-J=-78/32  
 WEBS C-M=-477/1548, D-M=-334/204, D-L=-26/30, E-L=-331/194, F-L=-476/1548, N-P=-116/164, B-N=-425/1253, I-K=-28/102, G-K=-448/1253

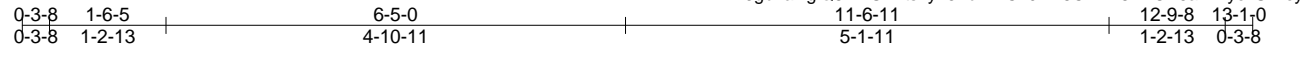
- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-05; 100mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; enclosed; MWFRS (low-rise) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
  - Provide adequate drainage to prevent water ponding.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - 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.
  - Use USP THD26-2 (With 16d nails into Girder & 10d nails into Truss) or equivalent spaced at 13-4-0 oc max. starting at 3-11-8 from the left end to 17-3-8 to connect truss(es) B5 (2 ply 2x4 SP), B4 (2 ply 2x4 SP) to front face of bottom chord.
  - Fill all nail holes where hanger is in contact with lumber.
  - "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails. For more details refer to MiTek's ST-TOENAIL Detail.
  - In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

**LOAD CASE(S)** Standard  
 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15  
 Uniform Loads (plf)  
 Vert: A-B=-60, B-C=-60, C-F=-60, F-G=-60, G-H=-60, O-P=-20, K-N=-20, I-J=-20  
 Concentrated Loads (lb)  
 Vert: O=-108(F) K=-108(F) Q=-382(F) R=-376(F)



Job <b>66010668</b>	Truss <b>B3</b>	Truss Type <b>Hip Girder</b>	Qty <b>1</b>	Ply <b>1</b>	<b>SULLIVAN EUROPEAN LH PORC</b>
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UFP Mid Atlantic LLC, Burlington, NC, MJUDD 7,640 s Feb 22 2016 MiTek Industries, Inc. Fri Apr 01 12:26:48 2016 Page 1  
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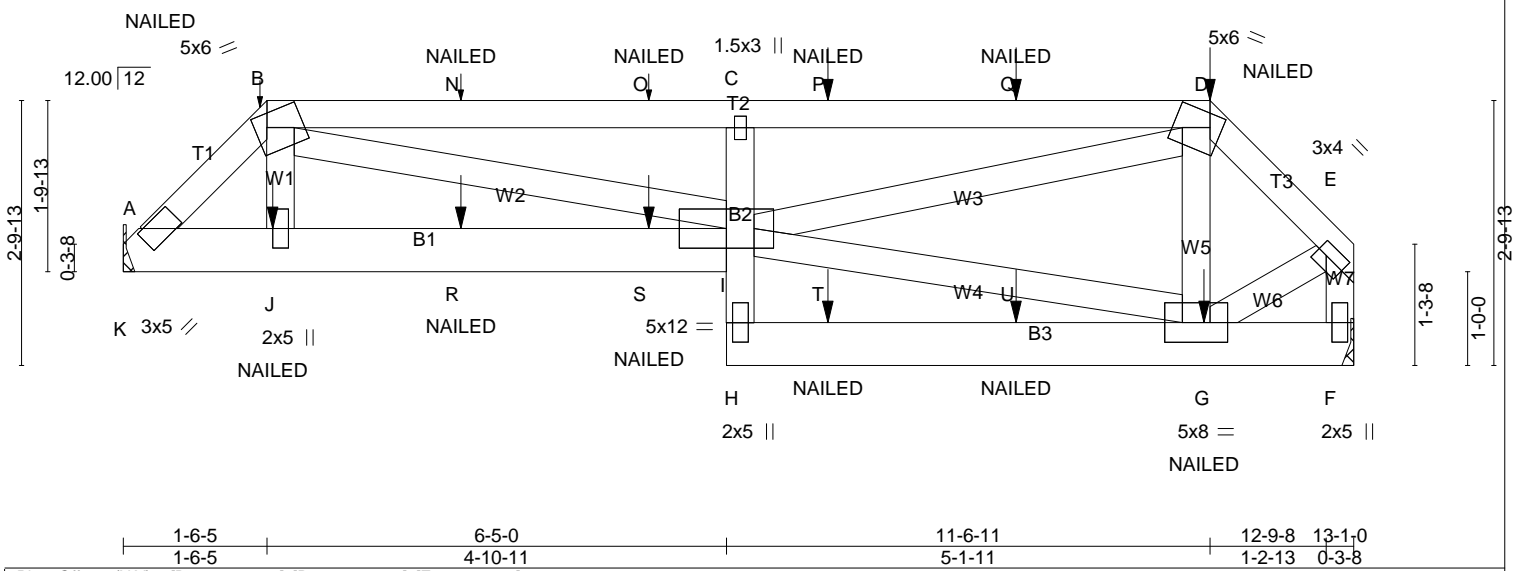


Plate Offsets (X,Y)-- [B:0-1-8,0-1-12], [D:0-1-8,0-1-12], [E:0-1-4,0-1-8]

<b>LOADING</b> (psf)	<b>SPACING-</b>	<b>CSI.</b>	<b>DEFL.</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	2-0-0	TC 0.34	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.53	Vert(LL) 0.06 I >999 240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.41	Vert(TL) -0.11 I >999 180		
BCDL 10.0	Rep Stress Incr NO	(Matrix-M)	Horz(TL) 0.02 F n/a n/a		
	Code IRC2009/TP12007			Weight: 84 lb	FT = 4%

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

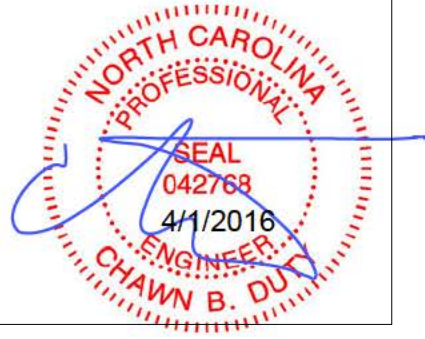
**BRACING-**  
 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (4-9-6 max.); B-D.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** (lb/size) K=571/Mechanical, F=558/Mechanical  
 Max Horz K=65(LC 3)  
 Max Uplift K=199(LC 4), F=222(LC 3)

**FORCES.** (lb) - Maximum Compression/Maximum Tension  
 TOP CHORD A-B=-910/341, B-N=-1326/570, N-O=-1326/570, C-O=-1326/570, C-P=-1284/569, P-Q=-1284/569, D-Q=-1284/569, D-E=-476/201, E-F=-577/222  
 BOT CHORD A-K=60/65, A-J=-285/646, J-R=-291/672, R-S=-291/672, I-S=-291/672, H-I=0/98, C-I=-333/214, H-T=-66/159, T-U=-66/159, G-U=-66/159, F-G=-7/11  
 WEBS B-J=-59/359, B-I=-331/690, G-I=-88/174, D-I=-459/995, D-G=-158/144, E-G=-178/400

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-05; 100mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; enclosed; MWFRS (low-rise) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
  - 3) Provide adequate drainage to prevent water ponding.
  - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 5) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - 6) 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.
  - 7) "Semi-rigid pitchbreaks with fixed heels" Member end fixity model was used in the analysis and design of this truss.
  - 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
  - 9) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails. For more details refer to MiTek's ST-TOENAIL Detail.
  - 10) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

**LOAD CASE(S)** Standard  
 1) Dead + Roof Live (balanced); Lumber Increase=1.15, Plate Increase=1.15  
 Uniform Loads (plf)  
 Vert: A-B=-60, B-D=-60, D-E=-60, I-K=-20, F-H=-20  
 Concentrated Loads (lb)  
 Vert: D=-3(F) J=-26(F) G=-6(F) P=-3(F) Q=-3(F) R=-26(F) S=-26(F) T=-6(F) U=-6(F)



Job 66010668	Truss B4	Truss Type Jack-Closed Girder	Qty 1	Ply 2	SULLIVAN EUROPEAN LH PORC
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UFP Mid Atlantic LLC, Burlington, NC, MJUDD  
 Job Reference (optional)  
 7.640 s Feb 22 2016 MiTek Industries, Inc. Fri Apr 01 12:26:49 2016 Page 1

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 0-3-8 2-0-0 1-1-8 0-3-8

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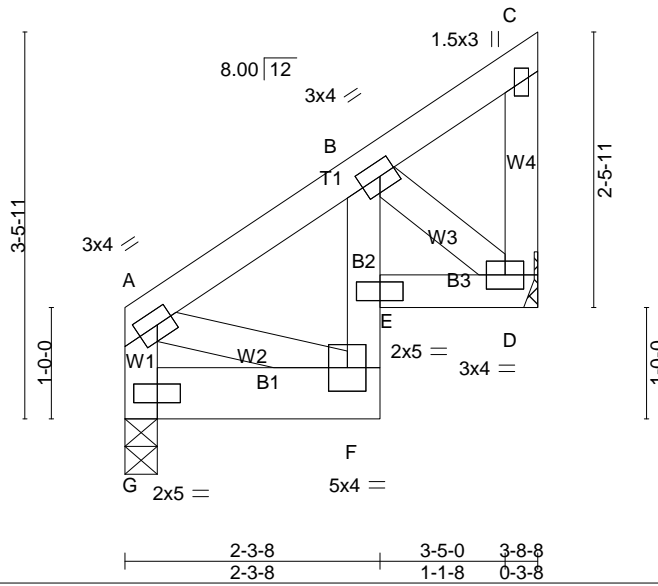


Plate Offsets (X,Y)-- [A:0-1-12,0-1-8], [B:0-1-12,0-1-8]

<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 20.0	Plate Grip DOL 1.15	TC 0.03	Vert(LL) -0.00 E >999 240	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.09	Vert(TL) -0.00 F >999 180		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.01	Horz(TL) 0.00 D n/a n/a		
BCDL 10.0	Code IRC2009/TP12007	(Matrix-M)			
				Weight: 50 lb	FT = 4%

**LUMBER-**  
 TOP CHORD 2x4 SP No.2  
 BOT CHORD 2x4 SP No.3 \*Except\*  
 B1: 2x6 SP No.2, B3: 2x4 SP No.2  
 WEBS 2x4 SP No.3

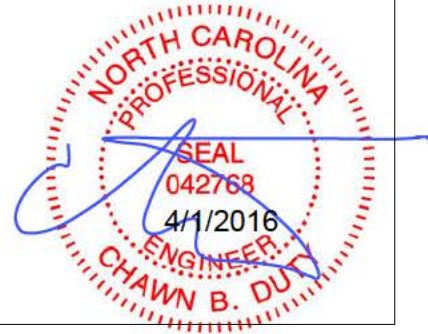
**BRACING-**  
 TOP CHORD Structural wood sheathing directly applied or 3-8-8 oc purlins, except end verticals.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** (lb/size) D=137/Mechanical, G=137/0-3-8  
 Max Horz G=95(LC 4)  
 Max Uplift D=50(LC 5)

**FORCES.** (lb) - Maximum Compression/Maximum Tension  
 TOP CHORD A-G=-125/16, A-B=-119/11, B-C=-32/30, C-D=-33/19  
 BOT CHORD F-G=-83/64, E-F=-13/34, B-E=0/54, D-E=-46/101  
 WEBS B-D=-124/68, A-F=-15/52

- NOTES-**
- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:  
 Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.  
 Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc.  
 Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
  - All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
  - Wind: ASCE 7-05; 100mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; enclosed; MWFRS (low-rise) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - Bearing at joint(s) G considers parallel to grain value using ANSI/TP1 angle to grain formula. Building designer should verify capacity of bearing surface.
  - 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.
  - "Semi-rigid pitchbreaks with fixed heels" Member end fixity model was used in the analysis and design of this truss.

**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 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 66010668	Truss B6	Truss Type Jack-Open Girder	Qty 2	Ply 1	SULLIVAN EUROPEAN LH PORC
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UFP Mid Atlantic LLC, Burlington, NC, MJUDD

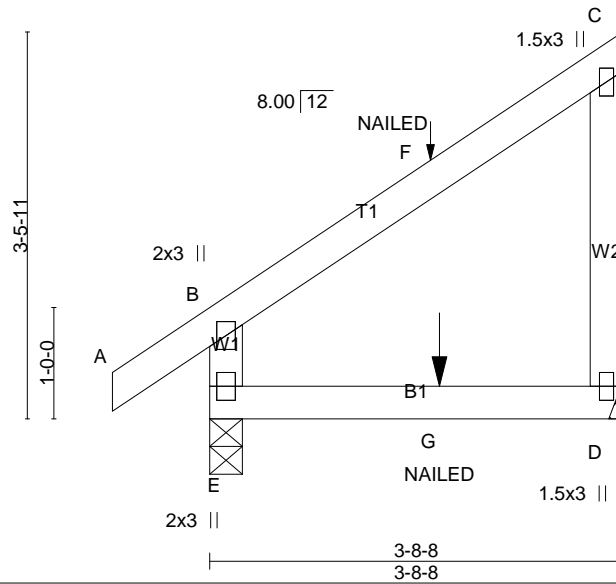
Job Reference (optional)

7.640 s Feb 22 2016 MiTek Industries, Inc. Fri Apr 01 12:26:50 2016 Page 1

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-0-10-8  
0-10-8  
3-5-0  
3-5-0  
3-8-8  
0-3-8

Scale = 1:20.7



<b>LOADING</b> (psf)	<b>SPACING-</b>	<b>CSI.</b>	<b>DEFL.</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	2-0-0	TC 0.20	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.14	Vert(LL) -0.01 D-E >999 240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.02	Vert(TL) -0.02 D-E >999 180		
BCDL 10.0	Rep Stress Incr NO	(Matrix-M)	Horz(TL) 0.00 n/a n/a		
	Code IRC2009/TPI2007			Weight: 19 lb	FT = 4%

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

**REACTIONS.** (lb/size) E=208/0-3-8, D=128/Mechanical  
Max Horz E=138(LC 5)  
Max Uplift E=-28(LC 5), D=-86(LC 5)

**FORCES.** (lb) - Maximum Compression/Maximum Tension  
TOP CHORD B-E=-176/56, A-B=0/34, B-F=-63/18, C-F=-54/39  
BOT CHORD E-G=0/0, D-G=0/0  
WEBS C-D=-91/80

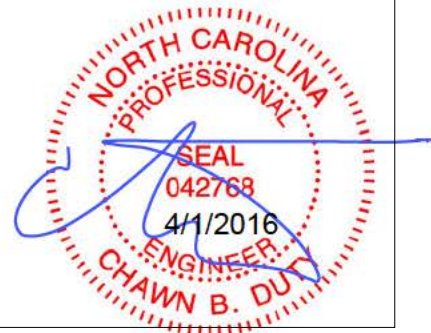
- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-05; 100mph; TCDL=6.0psf; BCCL=6.0psf; h=25ft; Cat. II; Exp B; enclosed; MWFRS (low-rise) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - 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.
  - "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails. For more details refer to MiTek's ST-TOENAIL Detail.
  - In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

**LOAD CASE(S)** Standard

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

Uniform Loads (plf)  
Vert: A-B=-60, B-C=-60, D-E=-20

Concentrated Loads (lb)  
Vert: G=-1(F)



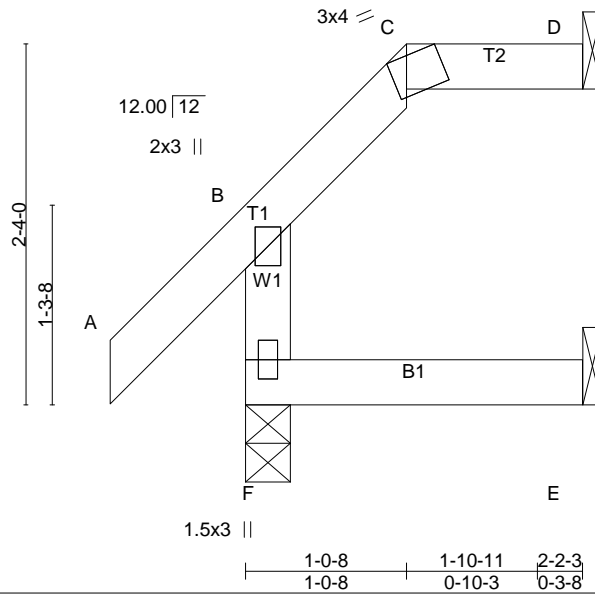
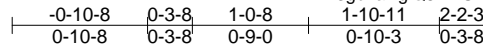
This truss is to be fabricated per ANSI/TPI quality requirements. Plates shall be of size and type shown and centered at joints unless otherwise noted. This design is based upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design 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 66010668	Truss B7	Truss Type Half Hip	Qty 2	Ply 1	SULLIVAN EUROPEAN LH PORC
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UFP Mid Atlantic LLC, Burlington, NC, MJUDD

Job Reference (optional)  
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Scale = 1:14.9

Plate Offsets (X,Y)-- [C:0-0-11,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 20.0	Plate Grip DOL 1.15	TC 0.14	Vert(LL) -0.00 F >999 240	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.06	Vert(TL) -0.00 E-F >999 180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(TL) -0.01 D n/a n/a		
BCDL 10.0	Code IRC2009/TPI2007	(Matrix-M)		Weight: 11 lb	FT = 4%

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

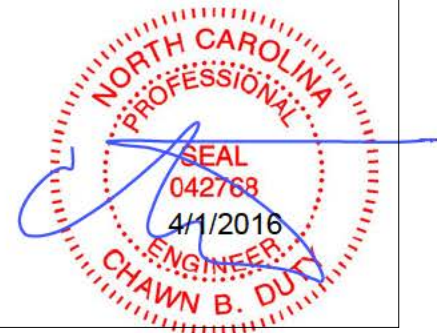
**BRACING-**  
TOP CHORD Structural wood sheathing directly applied or 2-2-3 oc purlins, except end verticals, and 2-0-0 oc purlins: C-D.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** (lb/size) D=45/Mechanical, F=156/0-3-8, E=18/Mechanical  
Max Horz F=70(LC 5)  
Max Uplift D=-32(LC 4), F=-25(LC 5), E=-8(LC 5)  
Max Grav D=46(LC 10), F=156(LC 1), E=37(LC 2)

**FORCES.** (lb) - Maximum Compression/Maximum Tension  
TOP CHORD A-B=0/43, B-C=-53/12, C-D=0/0, B-F=-134/56  
BOT CHORD E-F=0/0

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-05; 100mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; enclosed; MWFRS (low-rise) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
  - 3) Provide adequate drainage to prevent water ponding.
  - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 5) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - 6) 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.
  - 7) "Semi-rigid pitchbreaks with fixed heels" Member end fixity model was used in the analysis and design of this truss.
  - 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

**LOAD CASE(S)** Standard



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.



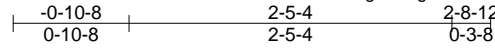
Job 66010668	Truss B8	Truss Type Jack-Open	Qty 3	Ply 1	SULLIVAN EUROPEAN LH PORC
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UFP Mid Atlantic LLC, Burlington, NC, MJUDD

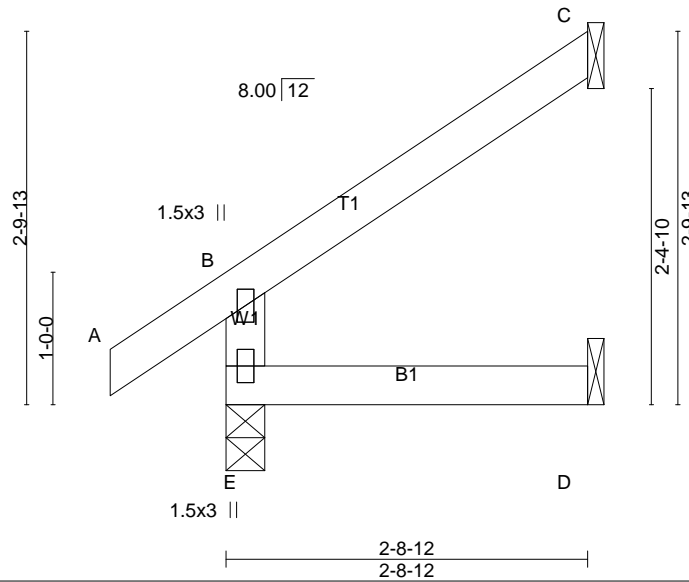
Job Reference (optional)

7.640 s Feb 22 2016 MiTek Industries, Inc. Fri Apr 01 12:26:52 2016 Page 1

ID:Mkl3gbnawglQ8PInGX4tsLy46Tb-o6SirGizCREcF14Cd?AWqDMhoLxiEBiEt5zT82zV5on



Scale = 1:17.4



<b>LOADING</b> (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	<b>SPACING-</b> 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2009/TPI2007	<b>CSI.</b> TC 0.14 BC 0.08 WB 0.00 (Matrix-M)	<b>DEFL.</b> in (loc) l/defl L/d Vert(LL) -0.00 D-E >999 240 Vert(TL) -0.01 D-E >999 180 Horz(TL) -0.01 C n/a n/a	<b>PLATES GRIP</b> MT20 244/190  Weight: 12 lb FT = 4%
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**LUMBER-**  
TOP CHORD 2x4 SP No.2  
BOT CHORD 2x4 SP No.2  
WEBS 2x4 SP No.3

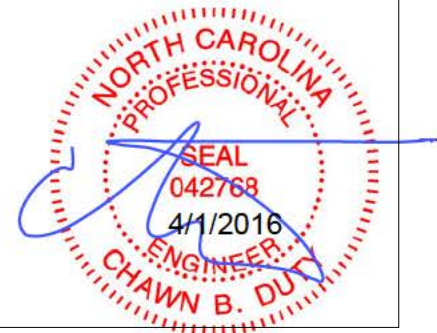
**BRACING-**  
TOP CHORD Structural wood sheathing directly applied or 2-8-12 oc purlins, except end verticals.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** (lb/size) E=174/0-3-8, C=63/Mechanical, D=26/Mechanical  
Max Horz E=115(LC 5)  
Max Uplift E=-19(LC 5), C=-55(LC 5), D=-4(LC 5)  
Max Grav E=174(LC 1), C=63(LC 1), D=47(LC 2)

**FORCES.** (lb) - Maximum Compression/Maximum Tension  
TOP CHORD B-E=-150/53, A-B=0/34, B-C=-49/26  
BOT CHORD D-E=0/0

- NOTES-**
- 1) Wind: ASCE 7-05; 100mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; enclosed; MWFRS (low-rise) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
  - 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 3) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - 4) 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.

**LOAD CASE(S)** Standard

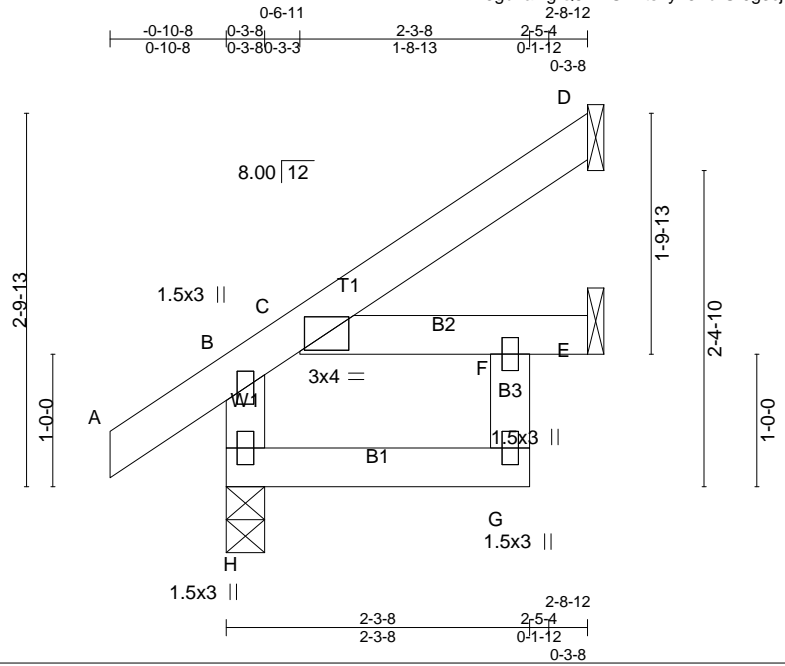


This truss is to be fabricated per ANSI/TPI quality requirements. Plates shall be of size and type shown and centered at joints unless otherwise noted. This design is based upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design 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 66010668	Truss B9	Truss Type Jack-Open	Qty 3	Ply 1	SULLIVAN EUROPEAN LH PORC
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UFP Mid Atlantic LLC, Burlington, NC, MJUDD ID:Mkl3gbnawglQ8PInGX4tsLy46Tb-Gl0g3cjbykMTtvfOBjhmQusDIHrzeyN6lj0gUzV5om 7.640 s Feb 22 2016 MiTek Industries, Inc. Fri Apr 01 12:26:53 2016 Page 1



Scale = 1:17.4

<b>LOADING</b> (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	<b>SPACING-</b> 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2009/TPI2007	<b>CSI.</b> TC 0.10 BC 0.09 WB 0.00 (Matrix-M)	<b>DEFL.</b> in (loc) l/defl L/d Vert(LL) -0.00 K >999 240 Vert(TL) -0.00 K >999 180 Horz(TL) -0.00 D n/a n/a	<b>PLATES GRIP</b> MT20 244/190  Weight: 15 lb FT = 4%
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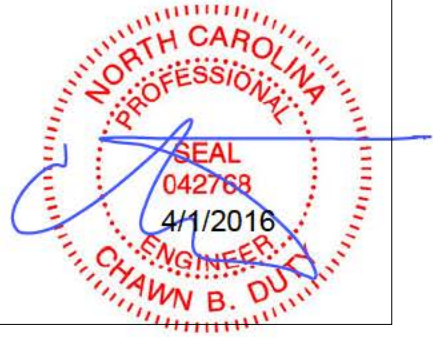
<b>LUMBER-</b> TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2 *Except* B3: 2x4 SP No.3 WEBS 2x4 SP No.3	<b>BRACING-</b> TOP CHORD Structural wood sheathing directly applied or 2-8-12 oc purlins, except end verticals. BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
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**REACTIONS.** (lb/size) H=200/0-3-8, D=49/Mechanical, E=46/Mechanical  
Max Horz H=115(LC 5)  
Max Uplift H=-12(LC 5), D=-31(LC 5), E=-16(LC 5)  
Max Grav H=200(LC 1), D=49(LC 1), E=74(LC 2)

**FORCES.** (lb) - Maximum Compression/Maximum Tension  
TOP CHORD B-H=-175/42, A-B=0/34, B-C=-79/0, C-D=-29/21  
BOT CHORD G-H=-36/32, F-G=-7/37, C-F=-32/36, E-F=0/0

- NOTES-**
- 1) Wind: ASCE 7-05; 100mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; enclosed; MWFRS (low-rise) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
  - 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 3) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - 4) 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.

**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.



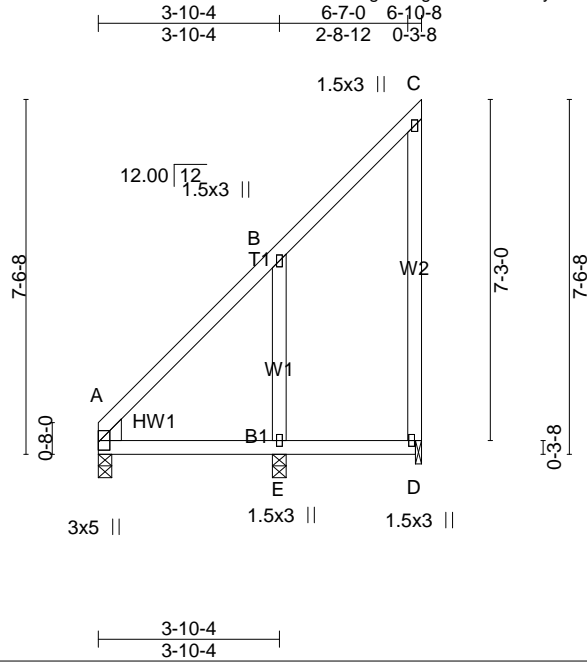


Job 66010668	Truss C1	Truss Type Monopitch	Qty 3	Ply 1	SULLIVAN EUROPEAN LH PORC
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UFP Mid Atlantic LLC, Burlington, NC, MJUDD

Job Reference (optional)  
7,640 s Feb 22 2016 MiTek Industries, Inc. Fri Apr 01 12:26:54 2016 Page 1

ID:Mk13gbnawglQ8PlnGX4tsLy46Tb-kUa2GykDj2UKU3EblQC\_verVf9bri4uXLPszCwzV5ot



Scale = 1:49.0

<b>LOADING</b> (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	<b>SPACING-</b> 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2009/TPI2007	<b>CSI.</b> TC 0.59 BC 0.17 WB 0.08 (Matrix-M)	<b>DEFL.</b> in (loc) l/defl L/d Vert(LL) 0.02 E-H >999 240 Vert(TL) -0.02 E-H >999 180 Horz(TL) -0.01 A n/a n/a	<b>PLATES GRIP</b> MT20 244/190  Weight: 42 lb FT = 4%
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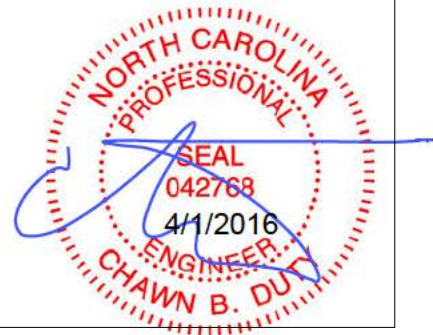
<b>LUMBER-</b> TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2 WEBS 2x4 SP No.3 WEDGE Left: 2x6 SP No.2	<b>BRACING-</b> TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals. BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
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**REACTIONS.** (lb/size) E=410/0-3-8, A=119/0-3-8, D=125/0-1-8  
Max Horz A=255(LC 4)  
Max Uplift E=248(LC 5), A=69(LC 3), D=67(LC 4)  
Max Grav E=410(LC 1), A=192(LC 4), D=125(LC 1)

**FORCES.** (lb) - Maximum Compression/Maximum Tension  
TOP CHORD A-B=-239/162, B-C=-123/127, C-D=-100/85  
BOT CHORD A-E=-55/83, D-E=-55/83  
WEBS B-E=-232/251

- NOTES-**
- 1) Wind: ASCE 7-05; 100mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; enclosed; MWFRS (low-rise) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
  - 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 3) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
  - 4) Bearing at joint(s) D considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
  - 5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) D.
  - 6) 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.
  - 7) "Semi-rigid pitchbreaks with fixed heels" Member end fixity model was used in the analysis and design of this truss.

**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 66010668	Truss P1	Truss Type Common	Qty 5	Ply 1	SULLIVAN EUROPEAN LH PORC
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UFP Mid Atlantic LLC, Burlington, NC, MJUDD  
 7,640 s Feb 22 2016 MiTek Industries, Inc. Fri Apr 01 12:26:55 2016 Page 1  
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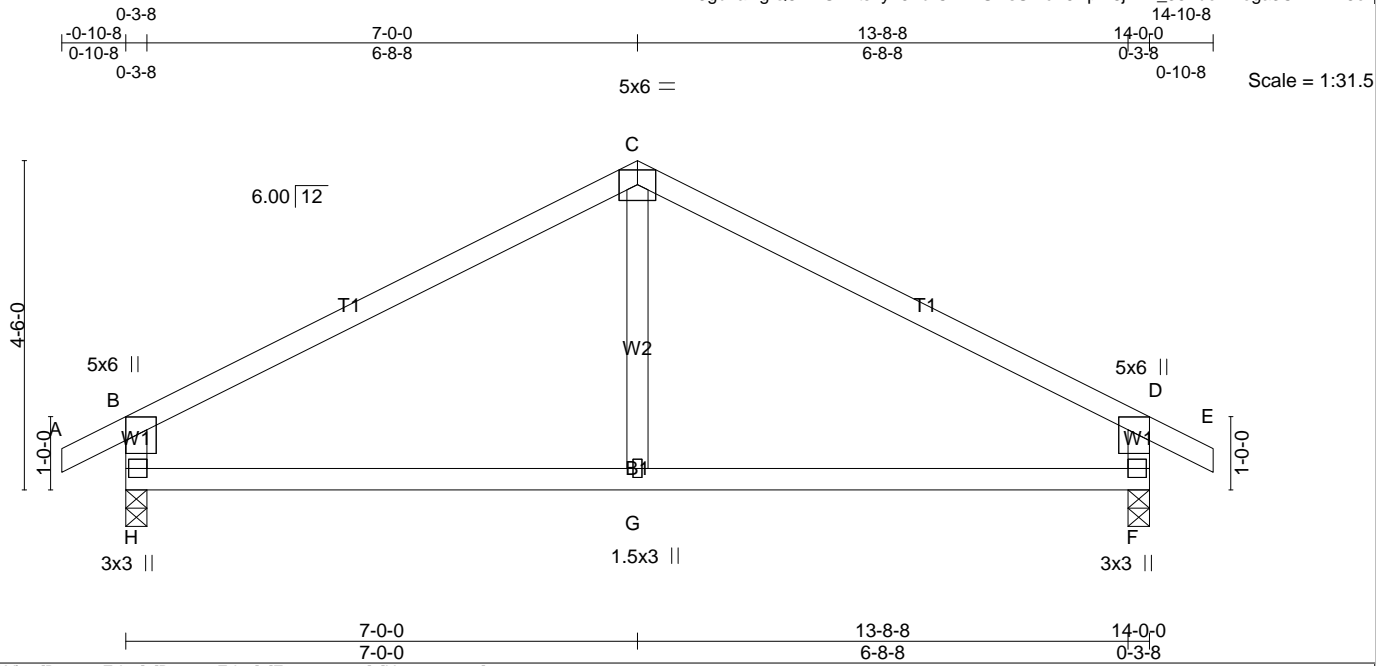


Plate Offsets (X,Y)-- [B:0-3-0,Edge], [D:0-3-0,Edge], [F:0-1-8,0-0-0], [H:0-1-8,0-0-8]

<b>LOADING</b> (psf)	<b>SPACING-</b>	<b>CSI.</b>	<b>DEFL.</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	2-0-0	TC 0.65	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.38	Vert(LL) -0.05 G-H >999 240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.11	Vert(TL) -0.14 G-H >999 180		
BCDL 10.0	Rep Stress Incr YES	(Matrix-M)	Horz(TL) 0.01 F n/a n/a		
	Code IRC2009/TPI2007			Weight: 55 lb	FT = 4%

**LUMBER-**  
 TOP CHORD 2x4 SP No.2  
 BOT CHORD 2x4 SP No.2  
 WEBS 2x4 SP No.2 \*Except\*  
 W2: 2x4 SP No.3

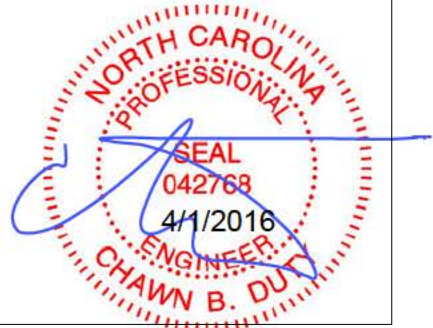
**BRACING-**  
 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** (lb/size) H=610/0-3-8, F=610/0-3-8  
 Max Horz H=-64(LC 3)  
 Max Uplift H=-113(LC 5), F=-113(LC 6)

**FORCES.** (lb) - Maximum Compression/Maximum Tension  
 TOP CHORD A-B=0/27, B-C=-641/105, C-D=-641/105, D-E=0/27, B-H=-537/160, D-F=-537/160  
 BOT CHORD G-H=-8/479, F-G=-8/479  
 WEBS C-G=0/280

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-05; 100mph; TCDL=6.0psf; BCCL=6.0psf; h=25ft; Cat. II; Exp B; enclosed; MWFRS (low-rise) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
  - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 4) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 113 lb uplift at joint H and 113 lb uplift at joint F.
  - 6) 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.
  - 7) "Semi-rigid pitchbreaks with fixed heels" Member end fixity model was used in the analysis and design of this truss.

**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 66010668	Truss P2	Truss Type Common Supported Gable	Qty 1	Ply 1	SULLIVAN EUROPEAN LH PORC
UFP Mid Atlantic LLC, Burlington, NC, MJUDD					Job Reference (optional) 7.640 s Feb 22 2016 MiTek Industries, Inc. Fri Apr 01 12:26:56 2016 Page 1
					ID:Mkl3gbnawglQ8PInGX4tsLy46Tb-hthpheiUfFk2kNOzsrFS_3WNTzJMA?8pojxgHpzV5oJ

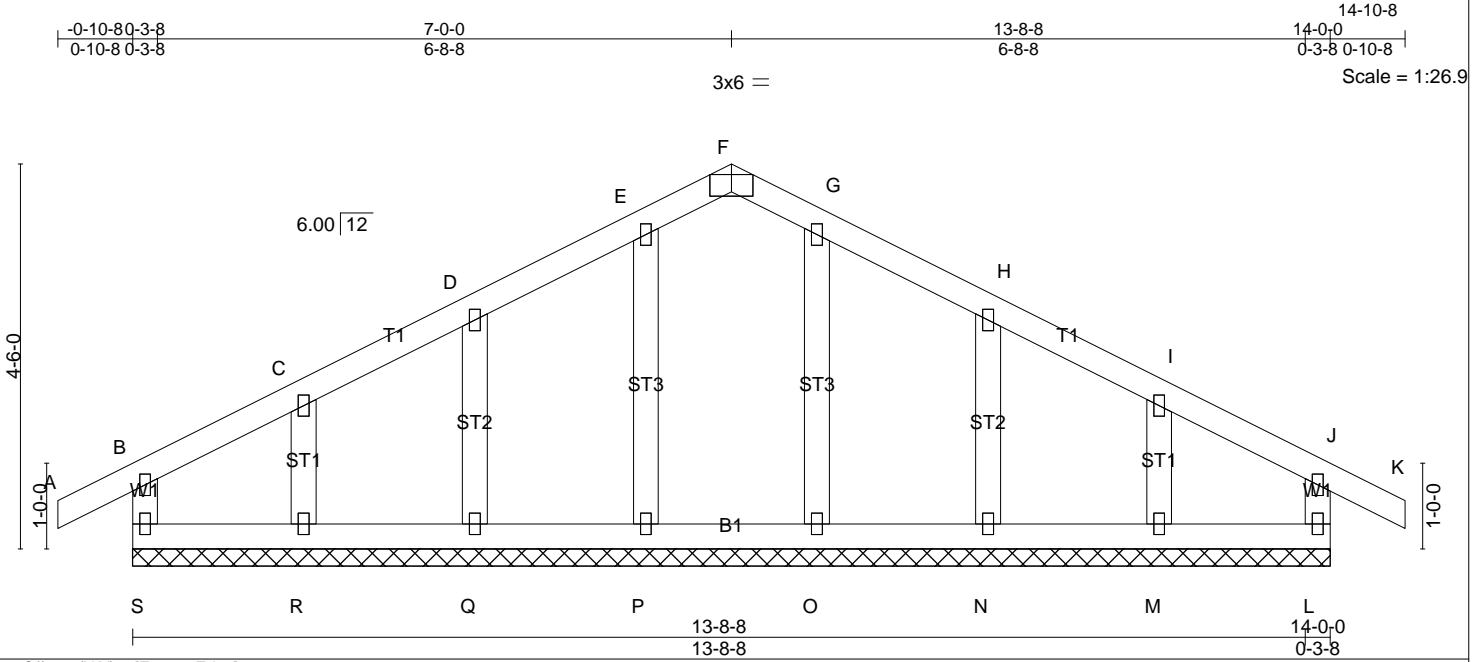


Plate Offsets (X,Y)-- [F:0-3-0,Edge]

<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 20.0	Plate Grip DOL 1.15	TC 0.10	Vert(LL) -0.00 K n/r 120	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.04	Vert(TL) -0.00 K n/r 90		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.04	Horz(TL) 0.00 L n/a n/a		
BCDL 10.0	Code IRC2009/TPI2007	(Matrix)			Weight: 71 lb FT = 4%

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

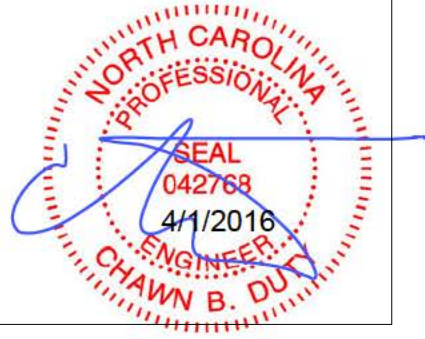
**BRACING-**  
TOP CHORD Structural wood sheathing directly applied or 6'-0" oc purlins, except end verticals.  
BOT CHORD Rigid ceiling directly applied or 10'-0" oc bracing.

**REACTIONS.** (lb/size) S=141/14-0-0, L=141/14-0-0, P=159/14-0-0, Q=162/14-0-0, R=146/14-0-0, O=159/14-0-0, N=162/14-0-0, M=146/14-0-0  
Max Horz S=-64(LC 3)  
Max Uplift S=-30(LC 5), L=-35(LC 6), Q=-57(LC 5), R=-66(LC 5), N=-59(LC 6), M=-62(LC 6)  
Max Grav S=142(LC 9), L=142(LC 10), P=159(LC 1), Q=165(LC 9), R=146(LC 1), O=159(LC 1), N=165(LC 10), M=146(LC 1)

**FORCES.** (lb) - Maximum Compression/Maximum Tension  
TOP CHORD B-S=-124/51, A-B=0/27, B-C=-32/35, C-D=-27/62, D-E=-29/97, E-F=-28/95, F-G=-28/93, G-H=-29/91, H-I=-27/57, I-J=-30/28, J-K=0/27, J-L=-124/56  
BOT CHORD R-S=-9/67, Q-R=-9/67, P-Q=-9/67, O-P=-9/67, N-O=-9/67, M-N=-9/67, L-M=-9/67  
WEBS E-P=-119/7, D-Q=-124/84, C-R=-107/76, G-O=-119/4, H-N=-124/86, I-M=-107/74

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-05; 100mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; enclosed; MWFRS (low-rise) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
  - 3) Truss designed for wind loads in the plane of the truss only.
  - 4) All plates are 1.5x3 MT20 unless otherwise indicated.
  - 5) Gable requires continuous bottom chord bearing.
  - 6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
  - 7) Gable studs spaced at 2'-0" 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" tall by 2'-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 30 lb uplift at joint S, 35 lb uplift at joint L, 57 lb uplift at joint Q, 66 lb uplift at joint R, 59 lb uplift at joint N and 62 lb uplift at joint M.
  - 11) This truss is designed in accordance with the 2009 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
  - 12) "Semi-rigid pitchbreaks with fixed heels" Member end fixity model was used in the analysis and design of this truss.

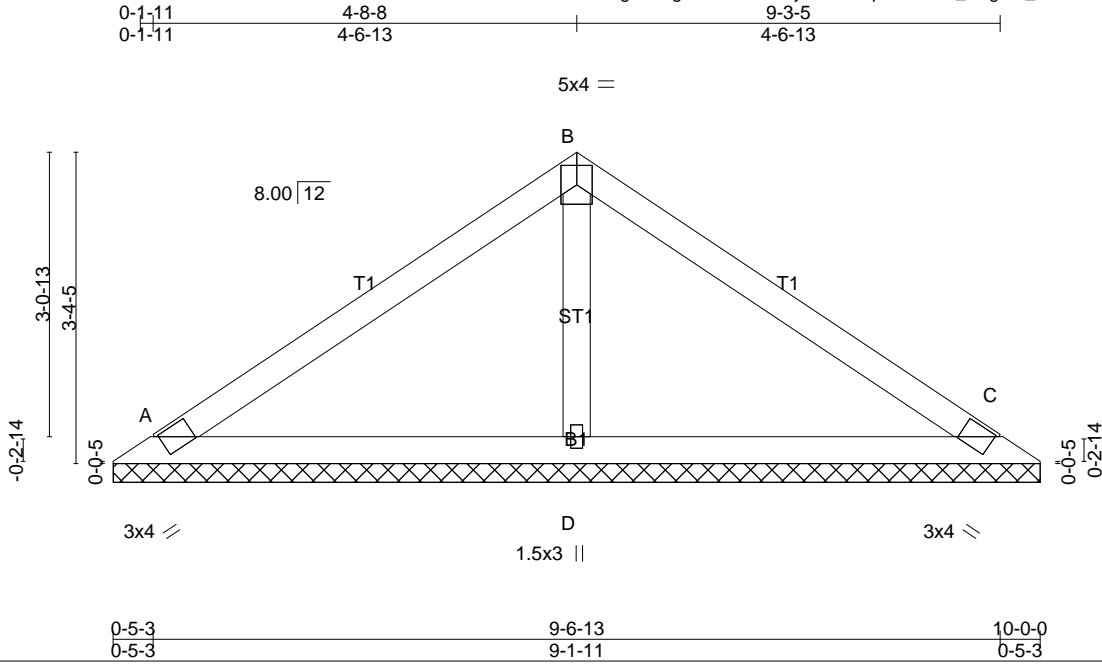
**LOAD CASE(S)** Standard



Job 66010668	Truss PA1	Truss Type Piggyback	Qty 11	Ply 1	SULLIVAN EUROPEAN LH PORC
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ID:Mk13gbnawglQ8PlnGX4tsLy46Tb-dGpZ6KknkH\_mzgyM\_GHw3UcgOmyBevJ6G1QnLizV5oh



Scale = 1:24.9

<b>LOADING</b> (psf)	<b>SPACING-</b>	<b>CSI.</b>	<b>DEFL.</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	2-0-0	TC 0.26	in (loc) l/def L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.21	Vert(LL) n/a - n/a 999		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.06	Vert(TL) n/a - n/a 999		
BCDL 10.0	Rep Stress Incr YES	(Matrix)	Horz(TL) 0.00 C n/a n/a		
	Code IRC2009/TPI2007			Weight: 35 lb	FT = 4%

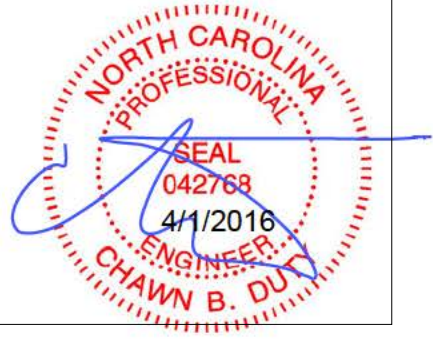
<b>LUMBER-</b>	<b>BRACING-</b>
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
OTHERS 2x4 SP No.3	

**REACTIONS.** (lb/size) A=175/10-0-0, C=175/10-0-0, D=378/10-0-0  
 Max Horz A=-87(LC 3)  
 Max Uplift A=-33(LC 5), C=-40(LC 6), D=-24(LC 5)

**FORCES.** (lb) - Maximum Compression/Maximum Tension  
 TOP CHORD A-B=-123/64, B-C=-123/51  
 BOT CHORD A-D=-17/44, C-D=-17/44  
 WEBS B-D=-224/58

- NOTES-** (8)
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-05; 100mph; TCDL=6.0psf; BC DL=6.0psf; h=25ft; Cat. II; Exp B; enclosed; MWFRS (low-rise) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
  - Gable requires continuous bottom chord bearing.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - 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.
  - Piggyback cap bottom chord to be attached to 2x4 purlins located at each end of cap bottom chord and at 24" oc max spacing with two 16d nails each.

**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 <b>66010668</b>	Truss <b>PA2</b>	Truss Type <b>Piggyback</b>	Qty <b>1</b>	Ply <b>1</b>	<b>SULLIVAN EUROPEAN LH PORC</b>
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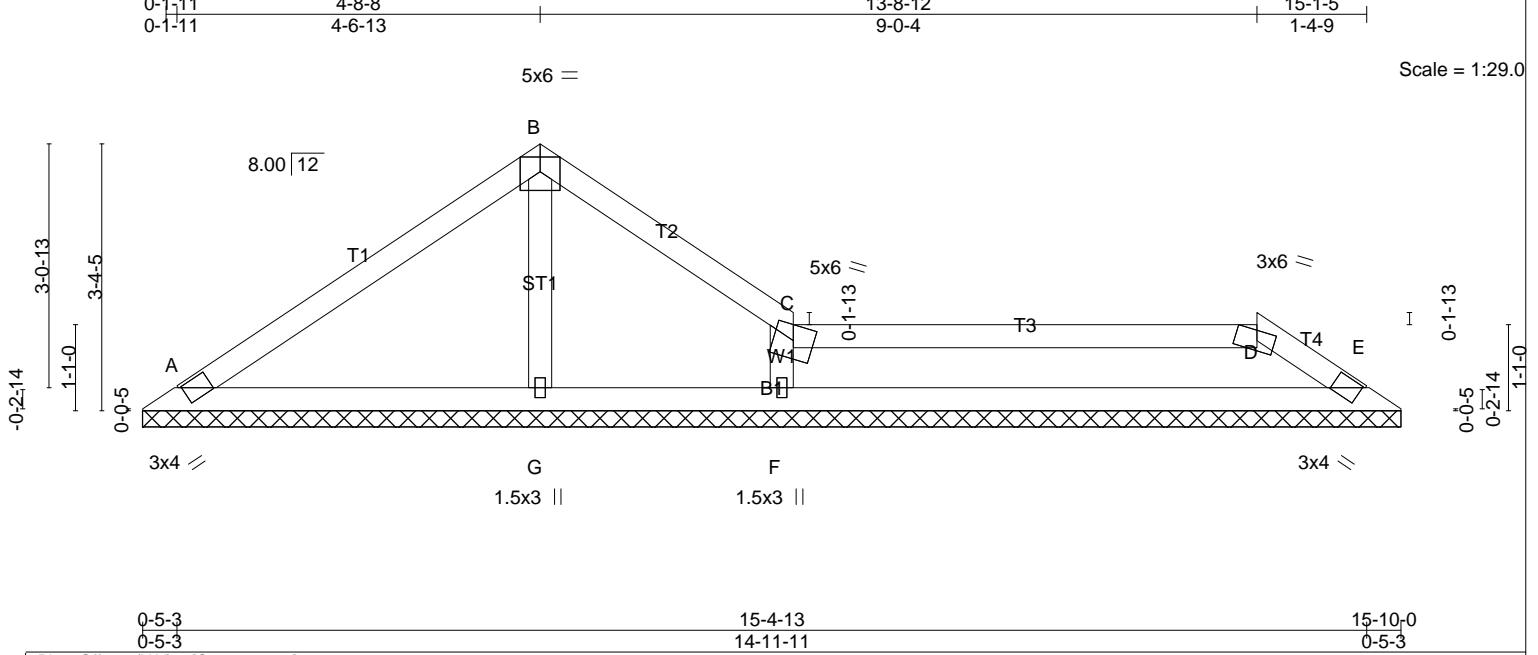


Plate Offsets (X,Y)-- [C:0-3-0,0-2-5]

<b>LOADING</b> (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	<b>SPACING-</b> 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2009/TPI2007	<b>CSI.</b> TC 0.53 BC 0.41 WB 0.15 (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) 0.01 E n/a n/a	<b>PLATES</b> MT20 <b>GRIP</b> 244/190  Weight: 54 lb FT = 4%
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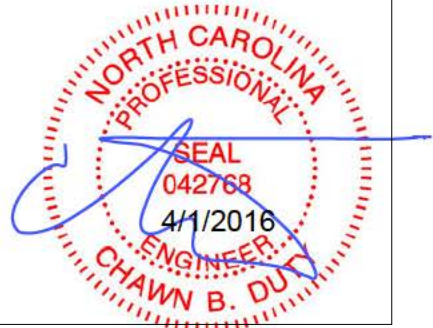
<b>LUMBER-</b> TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2 WEBS 2x4 SP No.3 OTHERS 2x4 SP No.3	<b>BRACING-</b> TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max.); C-D. BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
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**REACTIONS.** (lb/size) A=407/15-10-0, E=319/15-10-0, G=-197/15-10-0, F=665/15-10-0  
 Max Horz A=-87(LC 3)  
 Max Uplift A=-88(LC 6), E=-62(LC 6), G=-305(LC 10), F=-145(LC 6)  
 Max Grav A=407(LC 1), E=319(LC 1), G=154(LC 3), F=678(LC 10)

**FORCES.** (lb) - Maximum Compression/Maximum Tension  
 TOP CHORD A-B=-518/174, B-C=-507/171, C-D=-460/124, D-E=-524/153  
 BOT CHORD A-G=-99/367, F-G=-99/367, E-F=-124/460  
 WEBS B-G=-112/366, C-F=-555/219

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-05; 100mph; TCDL=6.0psf; BCCL=6.0psf; h=25ft; Cat. II; Exp B; enclosed; MWFRS (low-rise) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
  - 3) Provide adequate drainage to prevent water ponding.
  - 4) Gable requires continuous bottom chord bearing.
  - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 6) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - 7) This truss is designed in accordance with the 2009 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
  - 8) "Semi-rigid pitchbreaks with fixed heels" Member end fixity model was used in the analysis and design of this truss.
  - 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

**LOAD CASE(S)** Standard



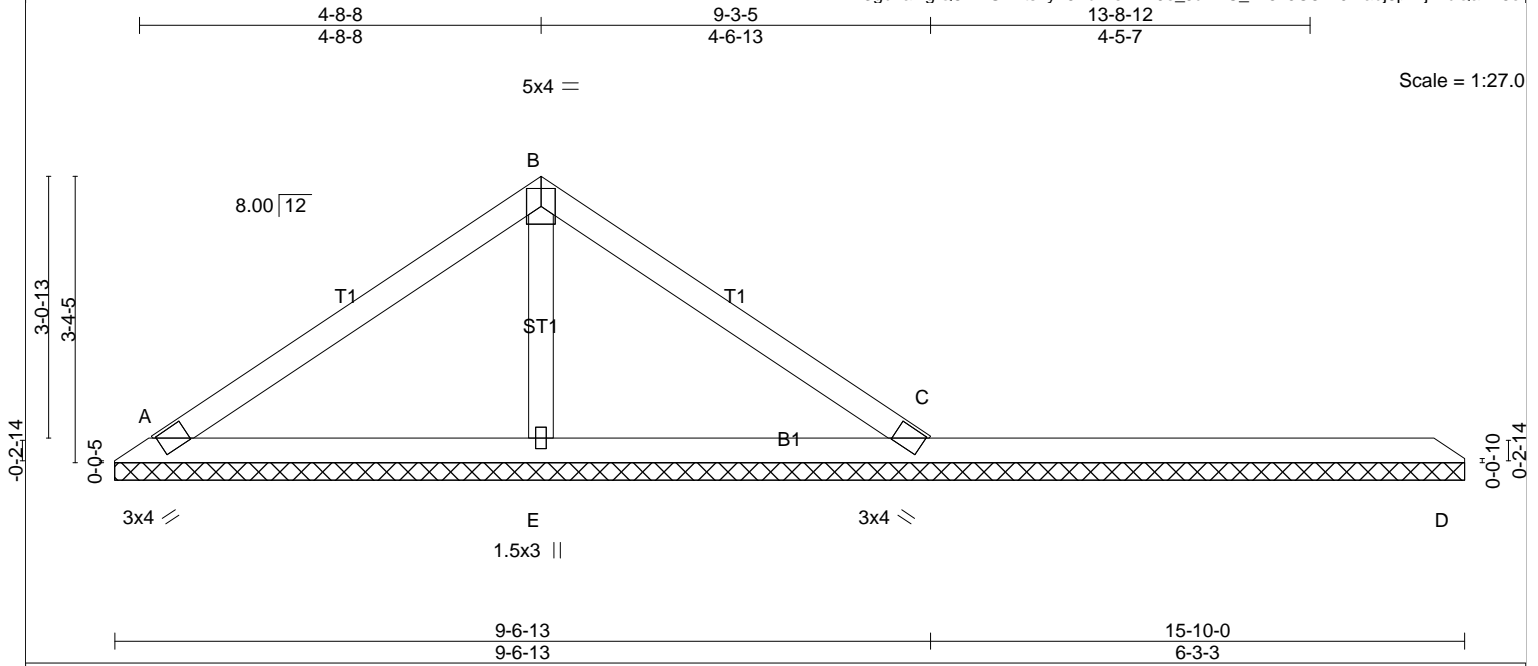
This truss is to be fabricated per ANSI/TPI quality requirements. Plates shall be of size and type shown and centered at joints unless otherwise noted. This design is based upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design 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 66010668	Truss PA3	Truss Type Piggyback	Qty 1	Ply 1	SULLIVAN EUROPEAN LH PORC
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<b>LOADING</b> (psf)	<b>SPACING-</b>	<b>CSI.</b>	<b>DEFL.</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	2-0-0	TC 0.27	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.33	Vert(LL) n/a - n/a 999		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.05	Vert(TL) n/a - n/a 999		
BCDL 10.0	Rep Stress Incr YES	(Matrix)	Horz(TL) 0.00 C n/a n/a		
	Code IRC2009/TPI2007			Weight: 44 lb	FT = 4%

<b>LUMBER-</b>	<b>BRACING-</b>
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
OTHERS 2x4 SP No.3	

**REACTIONS.** (lb/size) A=178/15-10-0, C=280/15-10-0, D=43/15-10-0, E=350/15-10-0  
 Max Horz A=-87(LC 3)  
 Max Uplift A=-32(LC 5), E=-33(LC 5)  
 Max Grav A=178(LC 1), C=307(LC 2), D=95(LC 2), E=350(LC 1)

**FORCES.** (lb) - Maximum Compression/Maximum Tension  
 TOP CHORD A-B=-119/64, B-C=-125/50  
 BOT CHORD A-E=-19/44, C-E=-19/44, C-D=0/0  
 WEBS B-E=-216/61

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-05; 100mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; enclosed; MWFRS (low-rise) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
  - 3) Gable requires continuous bottom chord bearing.
  - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 5) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - 6) 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.
  - 7) "Semi-rigid pitchbreaks with fixed heels" Member end fixity model was used in the analysis and design of this truss.

**LOAD CASE(S)** Standard

