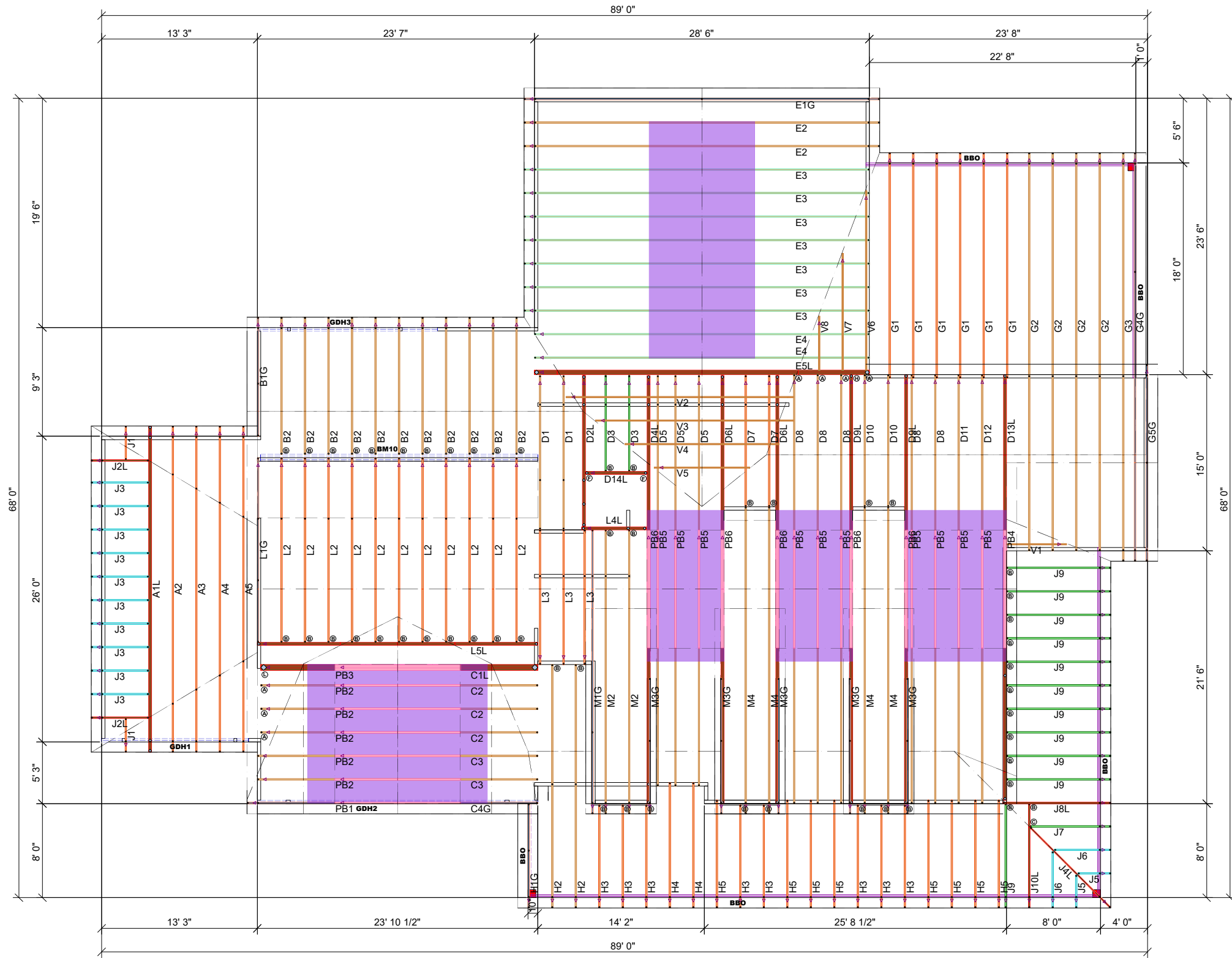


THIS IS A TRUSS PLACEMENT DIAGRAM (TPD) ONLY; NOT AN ENGINEERED DOCUMENT. Trusses are designed as individual building components to be incorporated into the building design at the specification of the building designer. See individual truss design drawings (TDD's) for each truss design identified on the TPD. The Contractor is responsible for the temporary bracing of the roof and floor system, and requirements for the permanent restraint/bracing of truss systems may be met by following the methods outlined in ANSI-TPI 1-2014 - 2.3.3. The design of the support structure including but not limited to headers, beams, walls, and columns is also the responsibility of the building designer. For general guidance regarding installation and bracing, consult "Building Component Safety Information" (BCSI) available from the SBC Association (www.sbcassociation.com). It is the responsibility of the General Contractor to verify that the provided component layout matches the final intended construction plans, loading conditions, and use. If they do not, it is the responsibility of the General Contractor to notify UFP and provide plans containing the latest specifications and designs. UFP will not be responsible for plan changes by others after final approval of shop drawings, or for errors or modifications made on-site during construction. DO NOT CUT, NOTCH, DRILL, OR OTHERWISE "REPAIR" MANUFACTURED TRUSSES IN ANY WAY WITHOUT PRIOR WRITTEN AUTHORIZATION BY A LICENSED PROFESSIONAL DESIGNATED BY UFP. The Framing is responsible to verify all dimensions, including adjusting member spacing within tolerances to allow for the drop and rise of plumbing/HVAC, unless noted otherwise. Truss-to-wall connections, if shown, are for uplift only and do not consider lateral loads. All connectors on this project are to be installed per the connector manufacturer's specifications. All connectors shown that are not truss-to-truss are suggestions only and are to be verified by the Building Designer or Engineer of Record for suitability to this particular project. UFP accepts no responsibility for the specific application or suitability of any connector that is not truss-to-truss as they apply to this specific structure.

**ROOF TRUSS PLACEMENT PLAN**



Roof Hanger List		
MARK	TYPE	QTY
(A)	HUS26	7
(B)	LUS26	52
(C)	THJU26	1
(F)	HHUS26-2	2
(H)	HHUS210-2	1
(L)	HGUS210-4	1

△ INDICATES LEFT END OF TRUSS SCALE: N.T.S

**ROOF AREA: 5807.27 ft<sup>2</sup> sqft** **RIDGE LINE: 139.51 ft** **VALLEY LINES: 127.49 ft** **HIP LINES: 53.07 ft** **THESE VALUES ARE APPROXIMATE ONLY**

REVISIONS		DSN
DATE	DESCRIPTION	

DESIGNER HSO  
LAYOUT DATE 07.02.24  
ARCH DATE 05.11.23  
STRUC DATE -

JOB #: 24061831

**SLADE RESIDENCE**

**PARKS BUILDING SUPPLY**

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**TRUSS TRAX**  
UFP CONSTRUCTION

**UFP SITE BUILT**  
A UFP INDUSTRIES COMPANY

Burlington, NC Locust, NC  
Chesapeake, VA Liberty, NC  
Clinton, NC Ooltewah, TN  
Conway, SC Pearisburg, VA  
Jefferson, GA Stanfield, NC

Customer Service (800) 476-9356

TrussTrax.com

Job 24061831	Truss A1L	Truss Type Truss	Qty 1	Ply 2	Job Reference (optional)
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UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Heidi Ouzts

Run: 8.73 S Jan 4 2024 Print: 8.730 S Jan 4 2024 MiTek Industries, Inc. Tue Jul 02 14:31:02

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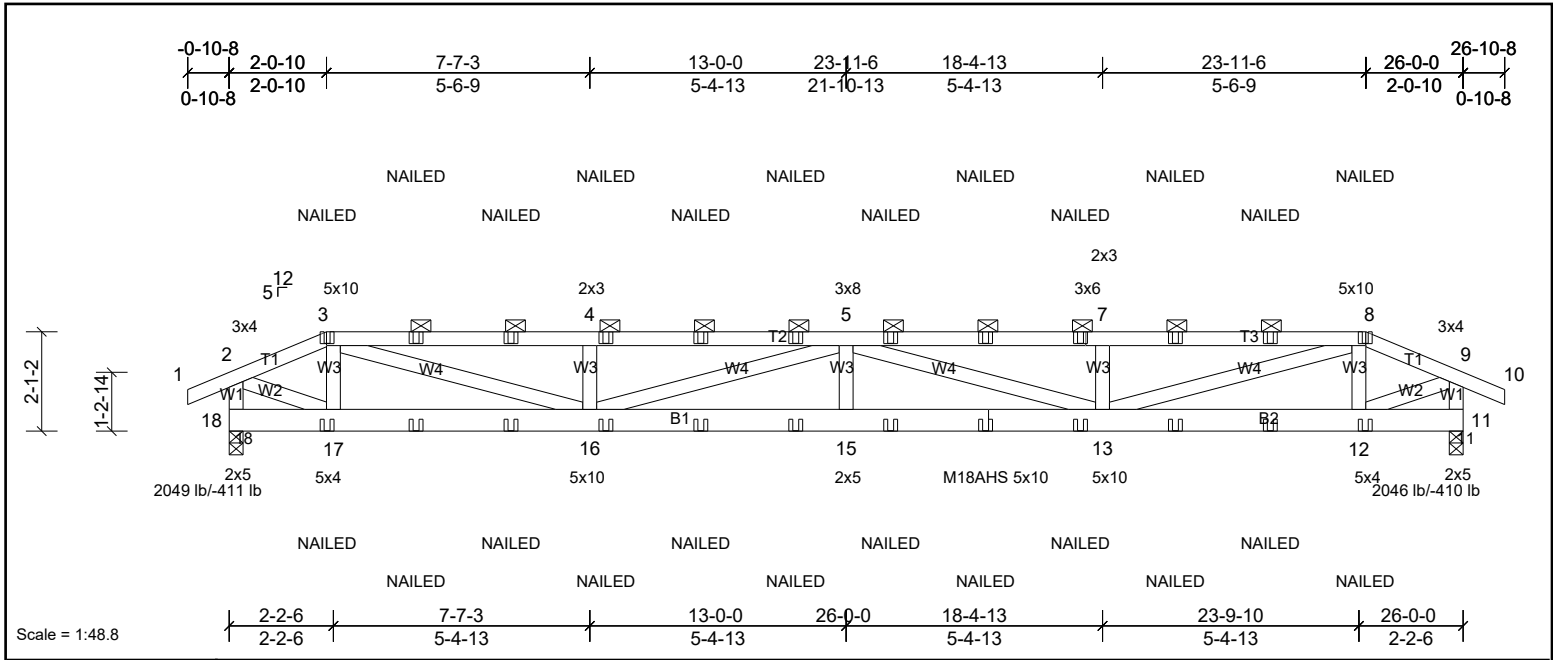


Plate Offsets (X, Y):	[3:0-2-0,0-1-12], [8:0-2-0,0-1-12], [13:0-2-0,0-2-12], [16:0-4-8,0-2-12]
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Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	30.0	Plate Grip DOL	1.15	TC	0.80	Vert(LL)	-0.27	15	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.86	Vert(CT)	-0.51	15	>608	180	M18AHS	186/179
BCLL	0.0*	Rep Stress Incr	NO	WB	0.82	Horz(CT)	0.06	11	n/a	n/a		
BCDL	15.0	Code	IRC2015/TPI2014	Matrix-MSH								
											Weight: 304 lb	FT = 20%

LUMBER	BRACING
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (4-0-14 max.): 3-8.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3	

REACTIONS	(lb/size)
	11=2046/0-3-8, (min. 0-1-8), 18=2049/0-3-8, (min. 0-1-8)
	Max Horiz 18=-34 (LC 6)
	Max Uplift 11=-410 (LC 5), 18=-411 (LC 4)

FORCES	(lb - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-3=-2550/503, 3-19=-6072/1183, 19-20=-6072/1183, 4-20=-6072/1183, 4-21=-6072/1183, 21-22=-6072/1183, 22-23=-6072/1183, 5-23=-6072/1183, 5-24=-6070/1182, 24-25=-6070/1182, 6-25=-6070/1182, 6-7=-6070/1182, 7-26=-6070/1182, 26-27=-6070/1182, 8-27=-6070/1182, 8-9=-2545/502, 2-18=-2119/421, 9-11=-2115/420, 17-28=-433/2284, 28-29=-433/2284, 16-29=-433/2284, 16-30=-1416/7502, 30-31=-1416/7502, 31-32=-1416/7502, 15-32=-1416/7502, 15-33=-1416/7502, 14-33=-1416/7502, 14-34=-1416/7502, 13-34=-1416/7502, 13-35=-423/2279, 35-36=-423/2279, 12-36=-423/2279
BOT CHORD	14-34=-1416/7502, 13-34=-1416/7502, 13-35=-423/2279, 35-36=-423/2279, 12-36=-423/2279
WEBS	3-17=-624/210, 3-16=-759/3969, 4-16=-612/266, 5-16=-1502/281, 5-15=0/426, 5-13=-1505/281, 7-13=-612/266, 8-13=-760/3971, 8-12=-624/209, 2-17=-475/2495, 9-12=-475/2490

- 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.  
Web 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.
  - Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 411 lb uplift at joint 18 and 410 lb uplift at joint 11.
  - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
  - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
  - "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidelines.

LOAD CASE(S)	Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15	
Uniform Loads (lb/ft)	
	Vert: 1-2=-80, 2-3=-80, 3-8=-80, 8-9=-80, 9-10=-80, 11-18=-30
Concentrated Loads (lb)	

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 UFPI plant. 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, erection and bracing available from SBCA and Truss Plate Institute.



Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
24061831	A1L	Truss	1	2	

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Vert: 3=-59 (F), 6=-56 (F), 8=-59 (F), 14=-32 (F), 17=-55 (F), 12=-55 (F), 19=-56 (F), 20=-56 (F), 21=-56 (F), 22=-56 (F), 23=-56 (F),  
 24=-56 (F), 25=-56 (F), 26=-56 (F), 27=-56 (F), 28=-32 (F), 29=-32 (F), 30=-32 (F), 31=-32 (F), 32=-32 (F), 33=-32 (F), 34=-32 (F),  
 35=-32 (F), 36=-32 (F)

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 UFPI plant. 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, erection and bracing available from SBCA and Truss Plate Institute.



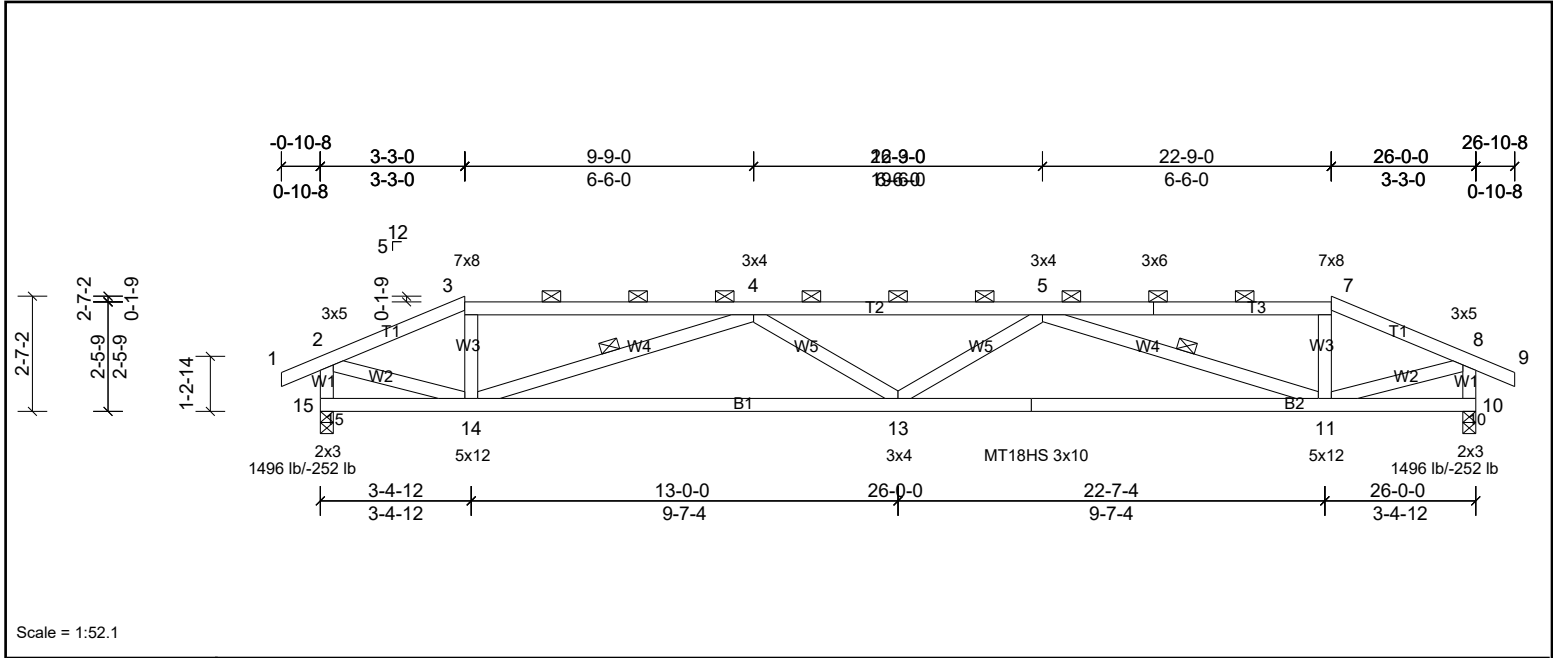
Job 24061831	Truss A2	Truss Type Truss	Qty 1	Ply 1	Job Reference (optional)
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Scale = 1:52.1

Plate Offsets (X, Y):	[2:0-2-8,0-1-4], [3:0-4-5,Edge], [7:0-4-5,Edge], [8:0-2-8,0-1-4]											
<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 (roof)	30.0	Plate Grip DOL	1.15	TC	0.98	Vert(LL)	-0.29	13	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.98	Vert(CT)	-0.61	11-13	>507	180	MT18HS	244/190
BCLL	0.0*	Rep Stress Incr	YES	WB	0.80	Horz(CT)	0.11	10	n/a	n/a		
BCDL	15.0	Code	IRC2015/TPI2014	Matrix-MSH							Weight: 129 lb	FT = 20%

<b>LUMBER</b>		<b>BRACING</b>	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 3-10-10 oc purlins, except end verticals, and 2-0-0 oc purlins (2-2-0 max.): 3-7.
BOT CHORD	2x4 SP No.1	BOT CHORD	Rigid ceiling directly applied or 2-2-0 oc bracing.
WEBS	2x4 SP No.3	WEBS	1 Row at midpt 4-14, 5-11
<b>REACTIONS</b>	(lb/size)		
	10=1496/0-3-8, (min. 0-1-12), 15=1496/0-3-8, (min. 0-1-12)		
	Max Horiz 15=-37 (LC 8)		
	Max Uplift 10=-252 (LC 7), 15=-252 (LC 6)		
<b>FORCES</b>	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.		
TOP CHORD	2-3=-2054/325, 3-16=-1897/323, 4-16=-1900/323, 4-5=-4194/674, 5-6=-1900/321, 6-7=-1900/322, 7-8=-2055/324, 2-15=-1495/301, 8-10=-1495/300		
BOT CHORD	13-14=-728/3967, 12-13=-729/3976, 11-12=-729/3976		
WEBS	3-14=0/418, 4-14=-2220/490, 4-13=0/457, 5-13=0/451, 5-11=-2227/491, 7-11=0/419, 2-14=-261/1923, 8-11=-262/1927		

- NOTES**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) -0-10-8 to 7-5-15, Interior (1) 7-5-15 to 18-6-1, Exterior (2) 18-6-1 to 26-10-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 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 3-00-06 tall by 2-00-00 wide will fit between the bottom chord and any other members.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 252 lb uplift at joint 15 and 252 lb uplift at joint 10.
  - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
  - 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

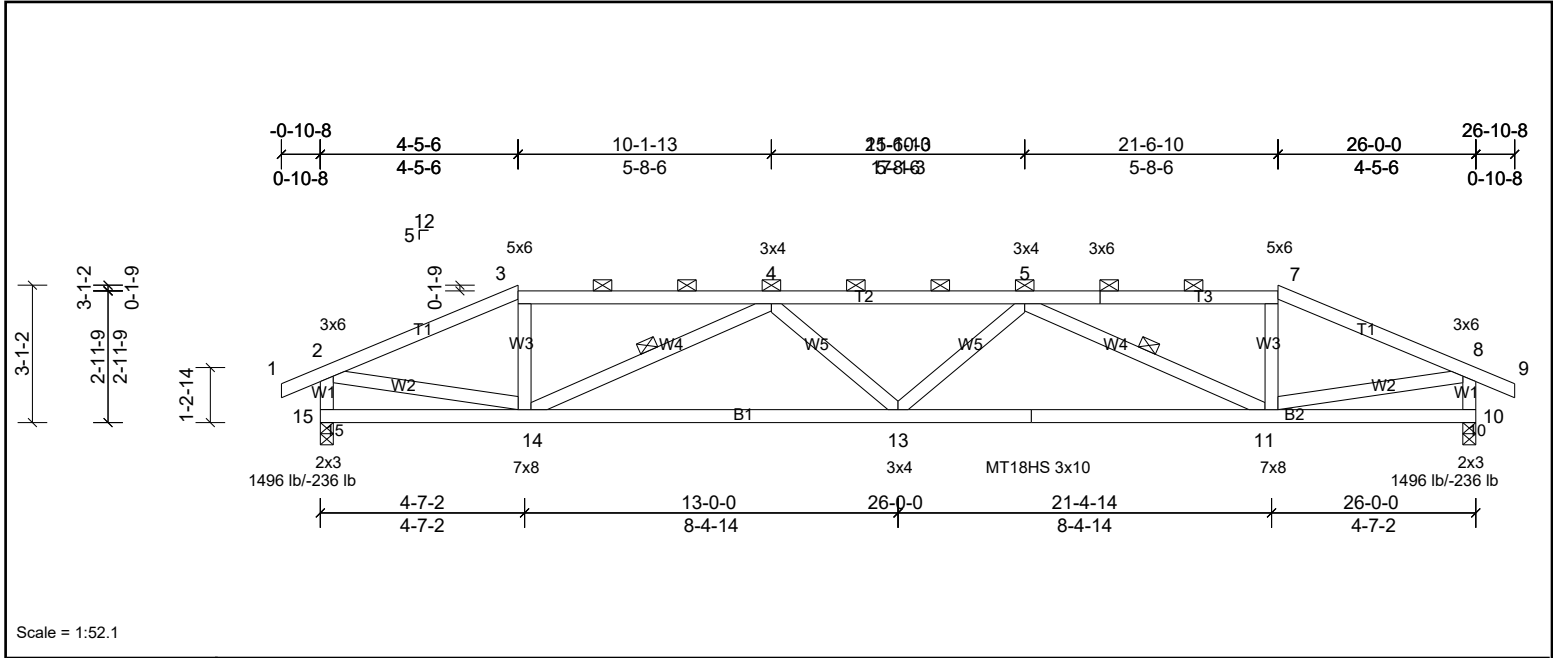
Job 24061831	Truss A3	Truss Type Truss	Qty 1	Ply 1	Job Reference (optional)
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Scale = 1:52.1

Plate Offsets (X, Y): [2:0-3-8,0-1-0], [3:0-3-0,0-1-14], [7:0-3-0,0-1-14], [8:0-3-8,0-1-0]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	30.0	Plate Grip DOL	1.15	TC	0.68	Vert(LL)	-0.19	13	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.77	Vert(CT)	-0.40	11-13	>773	180	MT18HS	244/190
BCLL	0.0*	Rep Stress Incr	YES	WB	0.77	Horz(CT)	0.08	10	n/a	n/a		
BCDL	15.0	Code	IRC2015/TPI2014	Matrix-MSH								
											Weight: 132 lb	FT = 20%

LUMBER		BRACING	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 3-9-7 oc purlins, except end verticals, and 2-0-0 oc purlins (2-8-15 max.): 3-7.
BOT CHORD	2x4 SP No.1	BOT CHORD	Rigid ceiling directly applied or 8-4-5 oc bracing.
WEBS	2x4 SP No.3	WEBS	1 Row at midpt 4-14, 5-11
<b>REACTIONS</b>	(lb/size)	10=1496/0-3-8, (min. 0-1-12), 15=1496/0-3-8, (min. 0-1-12)	
	Max Horiz	15=35 (LC 9)	
	Max Uplift	10=-236 (LC 7), 15=-236 (LC 6)	
<b>FORCES</b>	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.		
TOP CHORD	2-3=-2174/379, 3-16=-2006/380, 4-16=-2008/379, 4-5=-3407/556, 5-6=-2008/377, 6-7=-2008/378, 7-8=-2175/378, 2-15=-1441/334, 8-10=-1441/334		
BOT CHORD	13-14=-557/3265, 12-13=-559/3271, 11-12=-559/3271		
WEBS	3-14=-6/487, 4-14=-1459/319, 4-13=0/321, 5-13=0/315, 5-11=-1464/320, 7-11=-6/488, 2-14=-251/1853, 8-11=-252/1855		

- NOTES**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) -0-10-8 to 8-8-5, Interior (1) 8-8-5 to 17-3-11, Exterior (2) 17-3-11 to 26-10-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 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 3-00-06 tall by 2-00-00 wide will fit between the bottom chord and any other members.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 236 lb uplift at joint 15 and 236 lb uplift at joint 10.
  - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
  - 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

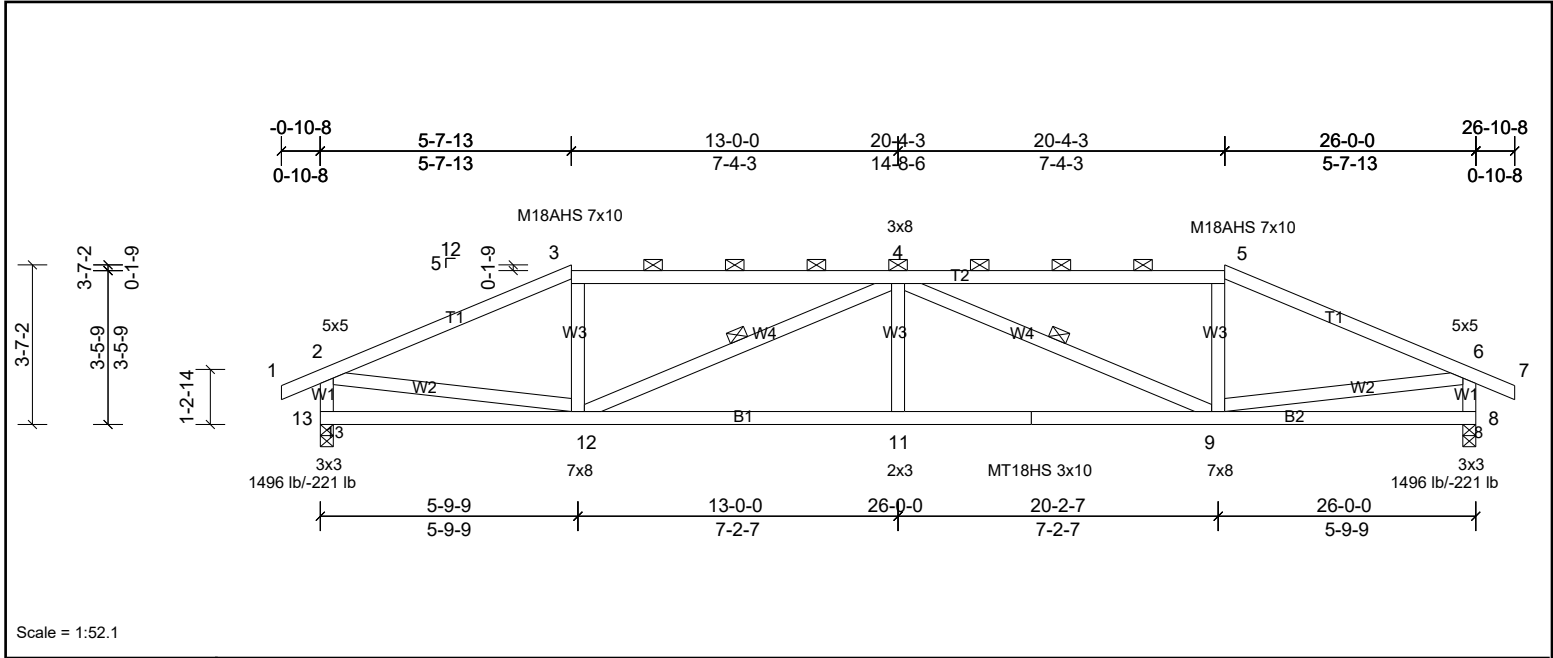
Job 24061831	Truss A4	Truss Type Truss	Qty 1	Ply 1	Job Reference (optional)
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Scale = 1:52.1

Plate Offsets (X, Y): [2:0-2-4,0-2-0], [3:0-2-0,0-1-14], [5:0-2-0,0-1-14], [6:0-2-4,0-2-0]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	30.0	Plate Grip DOL	1.15	TC	0.82	Vert(LL)	-0.16	11	>999	240	M18AHS	186/179
TCDL	10.0	Lumber DOL	1.15	BC	0.92	Vert(CT)	-0.31	11-12	>982	180	MT20	244/190
BCLL	0.0*	Rep Stress Incr	YES	WB	0.73	Horz(CT)	0.07	8	n/a	n/a	MT18HS	244/190
BCDL	15.0	Code	IRC2015/TPI2014	Matrix-MSH							Weight: 135 lb	FT = 20%

LUMBER	BRACING
TOP CHORD 2x4 SP No.2 *Except* T2:2x4 SP No.1	TOP CHORD Structural wood sheathing directly applied or 3-5-2 oc purlins, except end verticals, and 2-0-0 oc purlins (3-0-7 max.): 3-5.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt 4-12, 4-9

REACTIONS	(lb/size)
8=1496/0-3-8, (min. 0-1-12), 13=1496/0-3-8, (min. 0-1-12)	
Max Horiz	13=-34 (LC 8)
Max Uplift	8=-221 (LC 7), 13=-221 (LC 6)

FORCES	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-3=-2224/416, 3-14=-2017/420, 4-14=-2020/420, 4-15=-2020/420, 5-15=-2017/420, 5-6=-2224/416, 2-13=-1415/360, 6-8=-1415/360
BOT CHORD	11-12=-465/3021, 10-11=-465/3021, 9-10=-465/3021
WEBS	3-12=0/415, 4-12=-1196/231, 4-11=0/354, 4-9=-1196/231, 5-9=0/415, 2-12=-228/1767, 6-9=-229/1767

- NOTES**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) -0-10-8 to 9-10-11, Interior (1) 9-10-11 to 16-1-5, Exterior (2) 16-1-5 to 26-10-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 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 3-00-06 tall by 2-00-00 wide will fit between the bottom chord and any other members.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 221 lb uplift at joint 13 and 221 lb uplift at joint 8.
  - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
  - 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

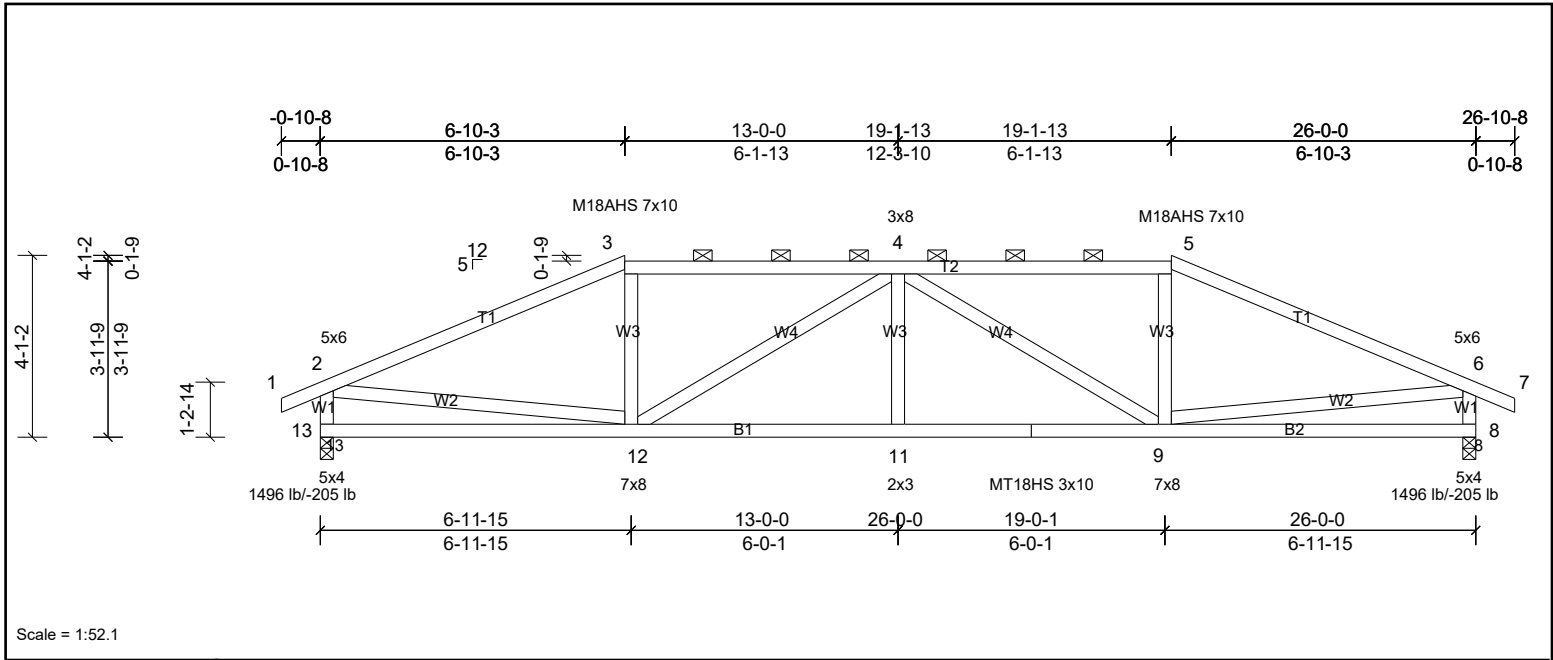
Job 24061831	Truss A5	Truss Type Truss	Qty 1	Ply 1	Job Reference (optional)
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Run: 8.73 S Jan 4 2024 Print: 8.730 S Jan 4 2024 MiTek Industries, Inc. Tue Jul 02 14:31:05

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ID:XFV\_r4Z6itNvijAdH7C1Clz0OJA-ISteBKEPIChHEpwYSQZnJ9dts?uCZEWiliahKalz05AK



Scale = 1:52.1

Plate Offsets (X, Y): [2:0-2-8,0-1-12], [3:0-2-0,0-1-14], [5:0-2-0,0-1-14], [6:0-2-8,0-1-12], [8:Edge,0-3-8]

Loading	(psf)	Spacing	2-0-0	CSI	DEFLL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	30.0	Plate Grip DOL	1.15	TC	0.81	Vert(LL)	-0.12	11	>999	240	M18AHS	186/179
TCDL	10.0	Lumber DOL	1.15	BC	0.80	Vert(CT)	-0.23	11-12	>999	180	MT20	244/190
BCLL	0.0*	Rep Stress Incr	YES	WB	0.75	Horz(CT)	0.06	8	n/a	n/a	MT18HS	244/190
BCDL	15.0	Code	IRC2015/TPI2014	Matrix-MSH							Weight: 139 lb	FT = 20%

LUMBER	BRACING
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end
BOT CHORD 2x4 SP No.2	verticals, and 2-0-0 oc purlins (3-4-5 max.): 3-5.
WEBS 2x4 SP No.3 *Except* W1:2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 9-9-15 oc bracing.

REACTIONS	(lb/size)
8=1496/0-3-8, (min. 0-1-12), 13=1496/0-3-8, (min. 0-1-12)	
Max Horiz 13=-33 (LC 8)	
Max Uplift 8=-205 (LC 7), 13=-205 (LC 6)	

FORCES	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-14=-2212/403, 14-15=-2138/411, 3-15=-2100/430, 3-16=-1972/440, 4-16=-1975/440, 4-17=-1975/440, 5-17=-1972/440, 5-18=-2100/430, 18-19=-2138/411, 6-19=-2212/403, 2-13=-1393/374, 6-8=-1393/374
BOT CHORD	12-13=-147/389, 11-12=-354/2556, 10-11=-354/2556, 9-10=-354/2556, 8-9=-124/389
WEBS	3-12=0/421, 4-12=-805/157, 4-11=0/260, 4-9=-805/158, 5-9=0/421, 2-12=-166/1572, 6-9=-166/1572

- NOTES**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) -0-10-8 to 2-1-8, Interior (1) 2-1-8 to 2-7-5, Exterior (2) 2-7-5 to 11-1-2, Interior (1) 11-1-2 to 14-10-14, Exterior (2) 14-10-14 to 23-4-11, Interior (1) 23-4-11 to 23-10-8, Exterior (2) 23-10-8 to 26-10-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 205 lb uplift at joint 13 and 205 lb uplift at joint 8.
  - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
  - 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

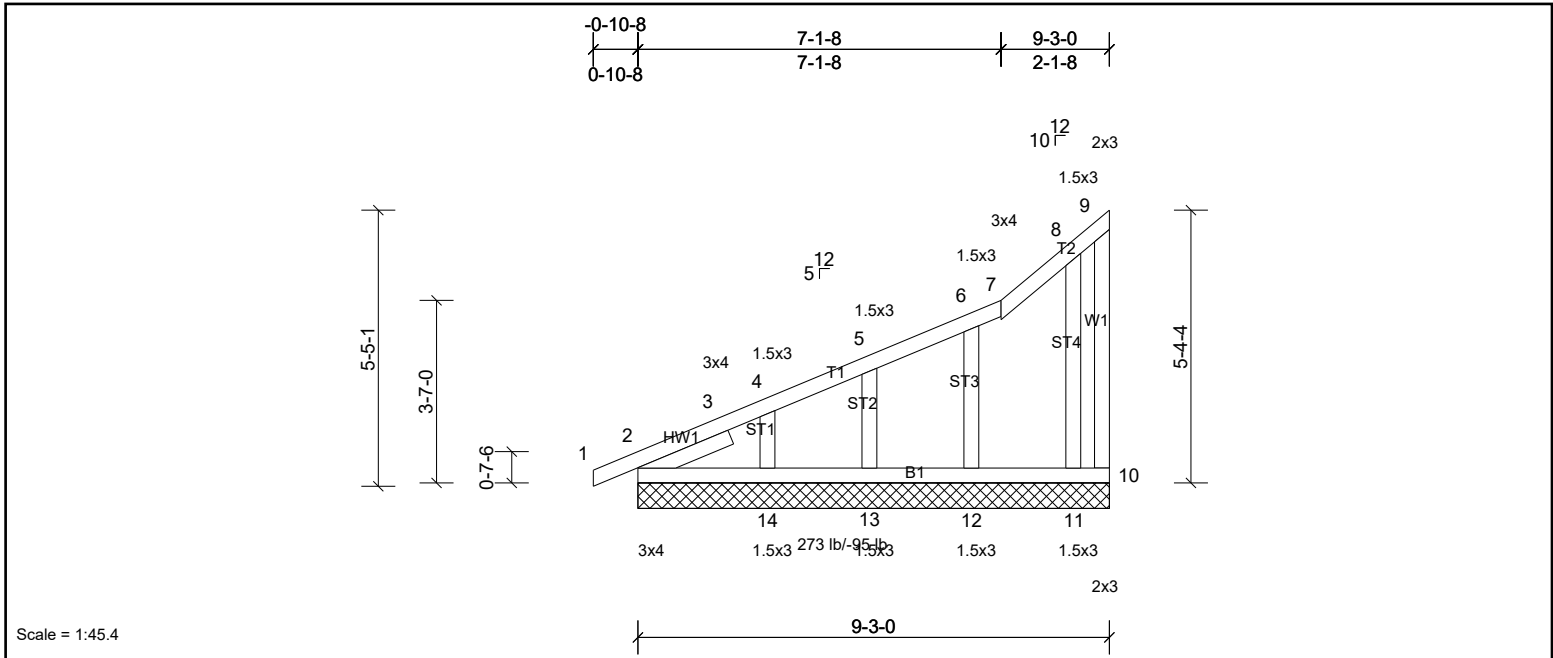
Job 24061831	Truss B1G	Truss Type Truss	Qty 1	Ply 1	Job Reference (optional)
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UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Heidi Ouzts

Run: 8.73 S Jan 4 2024 Print: 8.730 S Jan 4 2024 MiTek Industries, Inc. Tue Jul 02 14:31:06

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Scale = 1:45.4  
Plate Offsets (X, Y): [2:0-1-12,0-0-15]

Loading	(psf)	Spacing	2-0-0	CSI	DEFLL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	30.0	Plate Grip DOL	1.15	TC	0.33	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.11	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.05	Horz(CT)	0.00	2	n/a	n/a		
BCDL	15.0	Code	IRC2015/TPI2014	Matrix-MSH							Weight: 56 lb	FT = 20%

LUMBER	BRACING
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except 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	
OTHERS 2x4 SP No.3	
SLIDER Left 2x4 SP No.3 -- 1-11-0	

**REACTIONS** All bearings 9-3-0.  
(lb) - Max Horiz 2=226 (LC 9), 15=226 (LC 9)  
Max Uplift All uplift 100 (lb) or less at joint(s) 2, 10, 11, 12, 13, 14, 15  
Max Grav All reactions 250 (lb) or less at joint(s) 2, 10, 11, 12, 13, 15 except 14=273 (LC 1)

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

- NOTES**
- 1) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) -0-10-8 to 2-1-8, Exterior (2) 2-1-8 to 7-1-8, Corner (3) 7-1-8 to 9-1-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 2) Truss designed for wind loads in the plane of the truss only.
  - 3) All plates are 1.5x3 MT20 unless otherwise indicated.
  - 4) Gable requires continuous bottom chord bearing.
  - 5) Gable studs spaced at 2-0-0 oc.
  - 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 7) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
  - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 10, 13, 12, 14, 11, 2.
  - 9) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

**LOAD CASE(S)** Standard





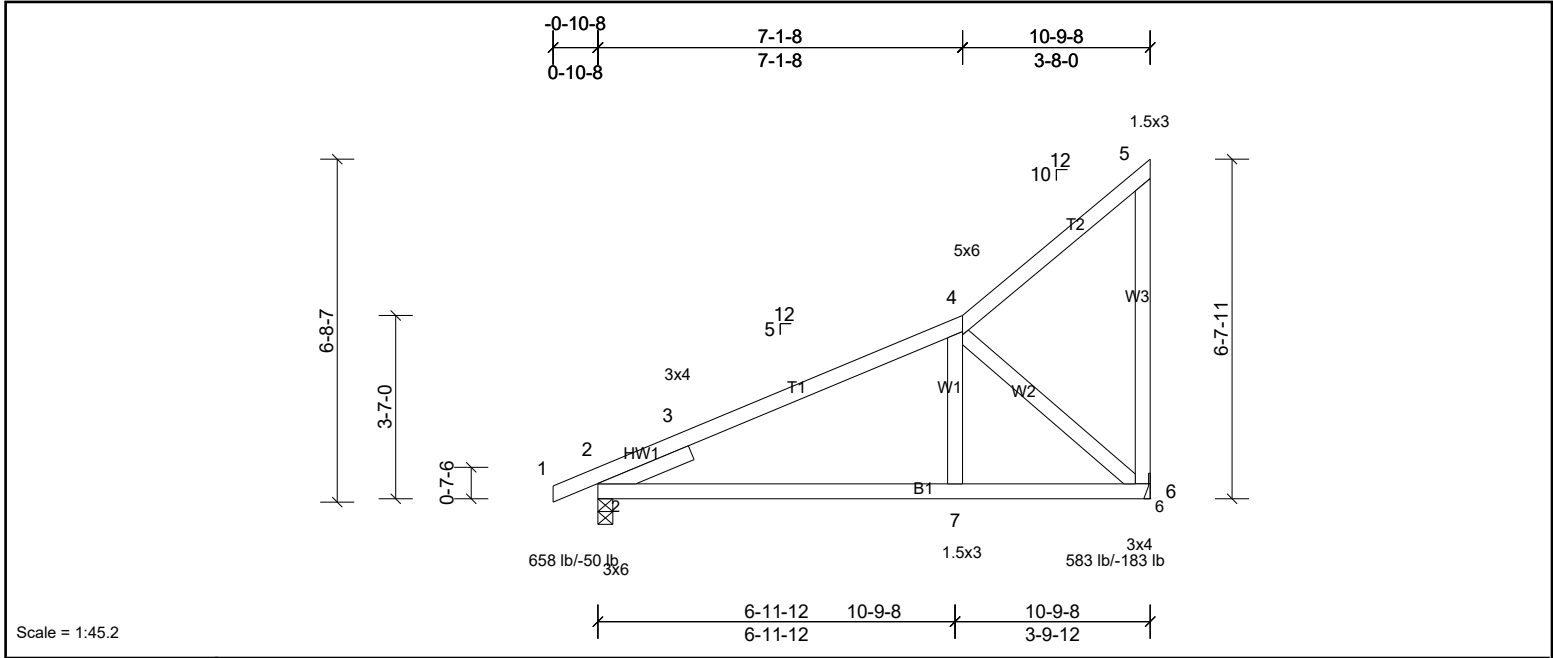
Job 24061831	Truss B2	Truss Type Truss	Qty 11	Ply 1	Job Reference (optional)
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UFPI Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Heidi Ouzts

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Scale = 1:45.2  
Plate Offsets (X, Y): [2:0-3-9,Edge]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	30.0	Plate Grip DOL	1.15	TC	0.79	Vert(LL)	0.09	7-10	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.67	Vert(CT)	-0.18	7-10	>698	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.32	Horz(CT)	0.03	2	n/a	n/a		
BCDL	15.0	Code	IRC2015/TPI2014	Matrix-MSH							Weight: 59 lb	FT = 20%

LUMBER		BRACING	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 3-10-14 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		
SLIDER	Left 2x4 SP No.3 -- 1-11-0		

REACTIONS	
(lb/size)	2=658/0-3-8, (min. 0-1-8), 6=583/ Mechanical, (min. 0-1-8)
Max Horiz	2=271 (LC 10)
Max Uplift	2=-50 (LC 10), 6=-183 (LC 10)

FORCES	
(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
TOP CHORD	2-3=-476/0, 3-12=-627/0, 4-12=-573/0
BOT CHORD	2-7=-341/528, 6-7=-134/517
WEBS	4-7=0/327, 4-6=-705/180

- NOTES**
- 1) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) -0-10-8 to 2-1-8, Interior (1) 2-1-8 to 7-7-12, Exterior (2) 7-7-12 to 10-7-12 zone; cantilever left and right exposed ; end vertical left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 3) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
  - 4) Refer to girder(s) for truss to truss connections.
  - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 50 lb uplift at joint 2 and 183 lb uplift at joint 6.
  - 6) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

**LOAD CASE(S)** Standard

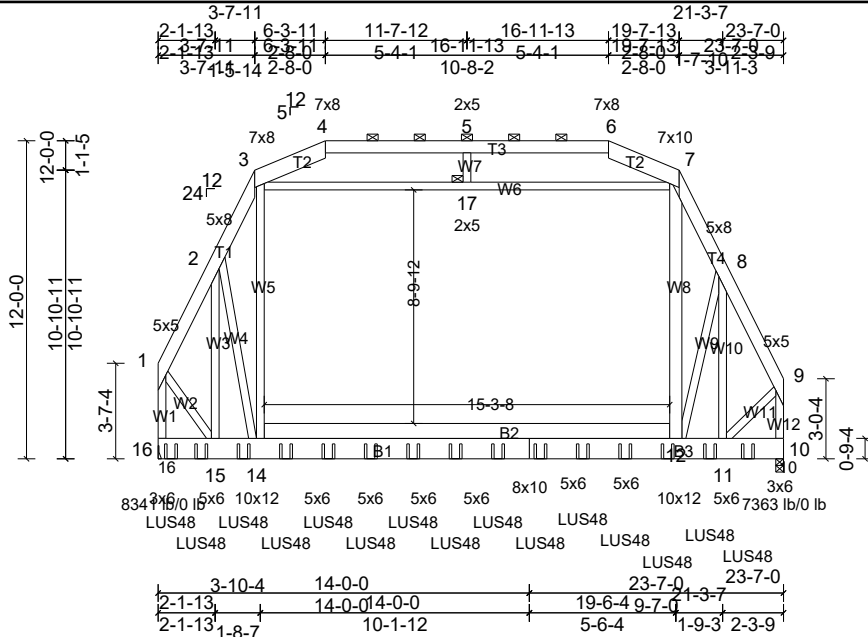
Job 24061831	Truss C1L	Truss Type Truss	Qty 1	Ply 4	Job Reference (optional)
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Scale = 1:87.3

Plate Offsets (X, Y):	[1:0-0-8,0-1-8], [3:0-2-8,0-3-8], [4:0-2-15,Edge], [6:0-2-15,Edge], [7:0-1-12,0-3-8], [9:0-4-4,Edge], [12:0-7-8,0-2-0], [14:0-6-0,0-2-0]
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Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	30.0	Plate Grip DOL	1.15	TC	0.56	Vert(LL)	-0.28	12-14	>993	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.63	Vert(CT)	-0.46	12-14	>604	180		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.65	Horz(CT)	0.01	10	n/a	n/a		
BCDL	15.0	Code	IRC2015/TPI2014	Matrix-MSH		Attic	-0.25	12-14	>772	360	Weight: 1356 lb	FT = 20%

LUMBER	BRACING
TOP CHORD 2x6 SP No.2 *Except* T2:2x8 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.): 4-6.
BOT CHORD 2x10 SP 2400F 2.0E *Except* B2:1-1/2x6-3/4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3 *Except* W5,W6:2x4 SP No.2, W8:2x6 SP No.2	JOINTS 1 Brace at Jt(s): 17
<b>REACTIONS</b> (lb/size) 10=3789/0-3-8, (min. 0-1-8), 16=4153/ Mechanical, (min. 0-1-8) Max Horiz 16=-250 (LC 4) Max Grav 10=7363 (LC 14), 16=8341 (LC 14)	
<b>FORCES</b> (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 1-2=-6150/0, 2-3=-8079/0, 3-4=-1851/353, 4-5=-1730/341, 5-6=-1730/341, 6-7=-1844/357, 7-8=-8280/0, 8-9=-6023/0, 1-16=-9338/0, 9-10=-8265/0 BOT CHORD 16-18=-225/277, 18-19=-225/277, 15-19=-225/277, 15-20=0/2532, 14-20=0/2532, 14-21=0/3664, 21-22=0/3664, 22-23=0/3664, 23-24=0/3664, 24-25=0/3664, 25-26=0/3664, 13-26=0/3664, 13-27=0/3664, 27-28=0/3664, 28-29=0/3664, 29-30=0/3664, 12-30=0/3664, 12-31=0/2613, 11-31=0/2613 WEBS 3-14=0/6935, 7-12=0/7216, 3-17=-2712/27, 7-17=-2712/27, 5-17=0/275, 2-15=-6258/0, 1-15=0/4529, 8-11=-5739/0, 9-11=0/3801, 2-14=0/4696, 8-12=0/3779	

- NOTES**
- 4-ply truss to be connected together with 10d (0.131"x3") nails as follows:  
Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x8 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc.  
Bottom chords connected as follows: 2x10 - 2 rows staggered at 0-5-0 oc.  
Web connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc.  
Attach BC w/ 1/2" diam. bolts (ASTM A-307) in the center of the member w/washers at 4-0-0 oc.
  - All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section.  
Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
  - Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
  - Provide adequate drainage to prevent water ponding.
  - All plates are 5x6 MT20 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
  - Ceiling dead load (5.0 psf) on member(s). 3-17, 7-17
  - Bottom chord live load (40.0 psf) and additional bottom chord dead load (20.0 psf) applied only to room. 12-14
  - Refer to girder(s) for truss to truss connections.
  - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
  - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
  - Use Simpson Strong-Tie LUS48 (6-10d Girder, 4-10d Truss, Single Ply Girder) or equivalent spaced at 3-0-5 oc max. starting at 0-9-5 from the left end to 22-6-6 to connect truss(es) F200 (1 ply 2x4 SP), F203 (1 ply 2x4 SP) to back face of bottom chord.
  - Use Simpson Strong-Tie LUS48 (6-10d Girder, 4-10d Truss) or equivalent at 21-1-4 from the left end to connect truss(es) F201 (1 ply 2x4 SP) to back face of bottom chord, skewed 0.0 deg. to the right, sloping 0.0 deg. down.
  - Fill all nail holes where hanger is in contact with lumber.
  - Attic room checked for L/360 deflection.
- LOAD CASE(S)** Standard

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 UFPI plant. 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, erection and bracing available from SBCA and Truss Plate Institute.



Job 24061831	Truss C1L	Truss Type Truss	Qty 1	Ply 4	Job Reference (optional)
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UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Heidi Ouzts

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

Uniform Loads (lb/ft)

Vert: 1-3=-80, 3-4=-80, 4-6=-80, 6-7=-80, 7-9=-80, 14-16=-30, 12-14=-70, 10-12=-30, 3-17=-10, 7-17=-10

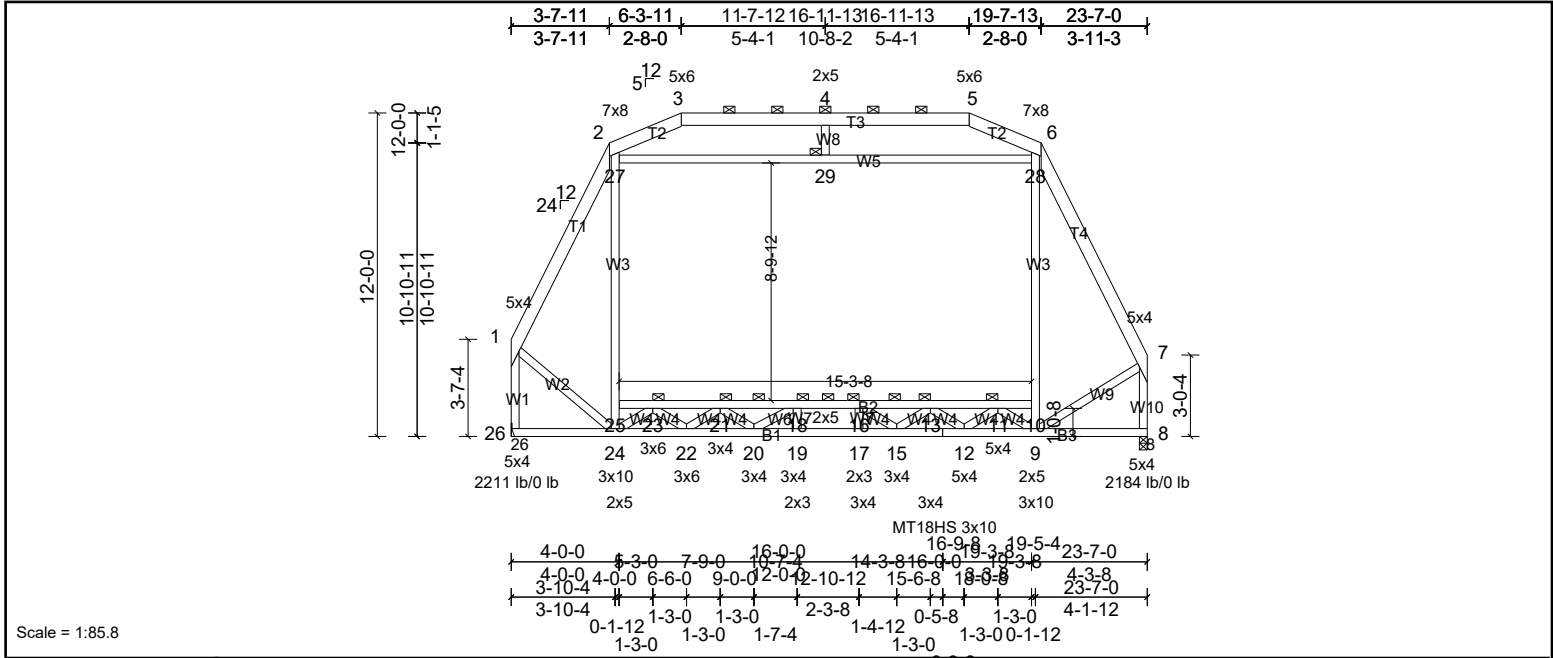
Concentrated Loads (lb)

Vert: 18=-315 (B), 19=-315 (B), 20=-315 (B), 21=-315 (B), 22=-315 (B), 23=-315 (B), 24=-315 (B), 25=-315 (B), 26=-315 (B), 27=-315 (B), 28=-315 (B), 29=-315 (B), 30=-315 (B), 31=-380 (B), 32=-116 (B)

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 UFPI plant. 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, erection and bracing available from SBCA and Truss Plate Institute.



Job 24061831	Truss C2	Truss Type Truss	Qty 3	Ply 1	Job Reference (optional)
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Scale = 1:85.8

Plate Offsets (X, Y):	[1:Edge,0-4-8], [2:0-1-13,0-1-13], [6:0-1-13,0-1-13], [7:0-2-0-0-4-8], [8:Edge,0-3-8]
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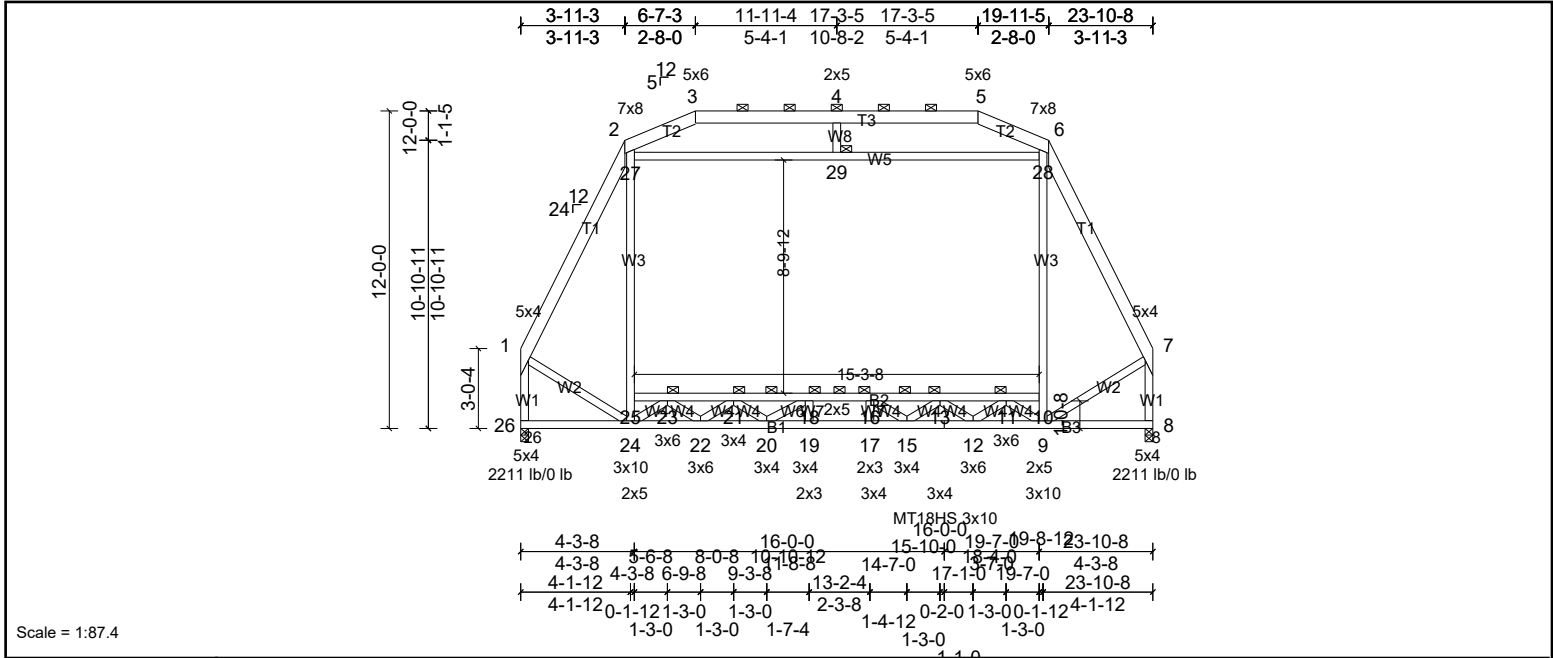
Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in (loc)	l/defl	L/d	PLATES	GRIP		
TCLL (roof)	30.0	Plate Grip DOL	1.15	TC	0.81	Vert(LL)	-0.31	22-24	>897	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.91	Vert(CT)	-0.46	17-19	>614	180	MT18HS	244/190
BCLL	0.0*	Rep Stress Incr	YES	WB	0.87	Horz(CT)	0.08	8	n/a	n/a		
BCDL	15.0	Code	IRC2015/TPI2014	Matrix-MSH		Attic	-0.17	10-25	>999	360	Weight: 241 lb	FT = 20%

LUMBER	BRACING
TOP CHORD 2x6 SP No.2 *Except* T3:2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied or 4-8-7 oc purlins, except end verticals, and 2-0-0 oc purlins (3-7-9 max.): 3-5.
BOT CHORD 2x4 SP SS *Except* B2:2x4 SP No.2, B3:2x4 SP No.1	BOT CHORD Rigid ceiling directly applied or 2-2-10 oc bracing.
WEBS 2x4 SP No.3 *Except* W3:2x4 SP No.1, W5:2x4 SP No.2	JOINTS 1 Brace at Jt(s): 23, 21, 18, 16, 11, 13, 29
<b>REACTIONS</b> (lb/size) 8=1897/0-3-8, (min. 0-2-9), 26=1912/ Mechanical, (min. 0-1-8) Max Horiz 26=-253 (LC 6) Max Grav 8=2184 (LC 2), 26=2211 (LC 2)	
<b>FORCES</b> (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. 1-2=-1739/6, 2-3=-1641/360, 3-30=-1496/339, 4-30=-1496/339, 4-31=-1496/339, 5-31=-1496/339, 5-6=-1636/371, 6-7=-1822/0, 1-26=-2247/0, 7-8=-2150/0 24-26=-279/280, 22-24=0/2164, 20-22=0/4062, 19-20=0/5301, 17-19=0/5301, 15-17=0/5301, 14-15=0/4188, 12-14=0/4188, 9-12=0/2185, 23-25=-97/394, 21-23=-2304/0, 18-21=-4015/0, 16-18=-4631/0, 13-16=-4089/0, 11-13=-2508/0, 10-11=-176/344 24-25=0/924, 25-27=0/1010, 2-27=0/1073, 9-10=0/973, 10-28=0/1061, 6-28=0/1118, 27-29=-382/887, 28-29=-382/887, 1-24=-50/1073, 7-9=-58/985, 23-24=-1908/0, 22-23=0/1316, 21-22=-1478/0, 20-21=0/868, 18-20=-777/0, 9-11=-1986/0, 11-12=0/1386, 12-13=-1378/0, 13-15=0/783, 15-16=-698/0	

- NOTES**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-5-4 to 9-7-3, Interior (1) 9-7-3 to 14-3-5, Exterior (2) 14-3-5 to 23-8-12 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - Provide adequate drainage to prevent water ponding.
  - 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
  - Ceiling dead load (5.0 psf) on member(s). 27-29, 28-29
  - Bottom chord live load (40.0 psf) and additional bottom chord dead load (20.0 psf) applied only to room. 23-25, 21-23, 18-21, 16-18, 13-16, 11-13, 10-11
  - Refer to girder(s) for truss to truss connections.
  - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
  - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
  - Attic room checked for L/360 deflection.

<b>LOAD CASE(S)</b>	Standard
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Job 24061831	Truss C3	Truss Type Truss	Qty 2	Ply 1	Job Reference (optional)
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Scale = 1:87.4

Plate Offsets (X, Y):	[1:0-2-0,0-4-8], [2:0-1-13,0-1-13], [6:0-1-13,0-1-13], [7:0-2-0,0-4-8], [8:Edge,0-3-8]
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Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	30.0	Plate Grip DOL	1.15	TC	0.81	Vert(LL)	-0.35	22-24	>818	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.92	Vert(CT)	-0.46	17-19	>621	180	MT18HS	244/190
BCLL	0.0*	Rep Stress Incr	YES	WB	0.82	Horz(CT)	0.08	8	n/a	n/a		
BCDL	15.0	Code	IRC2015/TPI2014	Matrix-MSH		Attic	-0.17	10-25	>999	360	Weight: 242 lb	FT = 20%

LUMBER	BRACING
TOP CHORD 2x6 SP No.2 *Except* T3:2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied or 4-10-1 oc purlins, except end verticals, and 2-0-0 oc purlins (3-8-2 max.): 3-5.
BOT CHORD 2x4 SP SS *Except* B2:2x4 SP No.2, B3:2x4 SP No.1	BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.
WEBS 2x4 SP No.3 *Except* W3:2x4 SP No.1, W5:2x4 SP No.2	JOINTS 1 Brace at Jt(s): 29, 11, 23, 21, 13, 16, 18
<b>REACTIONS</b> (lb/size) 8=1920/0-3-8, (min. 0-2-10), 26=1920/0-3-8, (min. 0-2-10) Max Horiz 26=367 (LC 7) Max Grav 8=2211 (LC 2), 26=2211 (LC 2)	
<b>FORCES</b> (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 1-2=-1841/22, 2-3=-1650/367, 3-30=-1508/339, 4-30=-1508/339, 4-31=-1508/339, 5-31=-1508/339, 5-6=-1650/364, 6-7=-1839/22, 1-26=-2206/0, 7-8=-2203/0 BOT CHORD 24-26=-388/386, 22-24=-59/2274, 20-22=0/4167, 19-20=0/5324, 17-19=0/5324, 15-17=0/5324, 14-15=0/4144, 12-14=0/4144, 9-12=0/2142, 23-25=-136/389, 21-23=-2434/0, 18-21=-4047/0, 16-18=-4628/0, 13-16=-4053/0, 11-13=-2425/0, 10-11=-131/397 WEBS 24-25=0/996, 25-27=0/1085, 2-27=0/1136, 9-10=0/994, 10-28=0/1082, 6-28=0/1132, 27-29=-375/873, 28-29=-375/873, 1-24=-90/992, 7-9=-88/988, 9-11=-1959/0, 23-24=-1946/0, 22-23=0/1357, 21-22=-1438/0, 20-21=0/824, 11-12=0/1357, 12-13=-1415/0, 13-15=0/846, 15-16=-754/0, 18-20=-740/0	

- NOTES**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-1-12 to 9-7-3, Interior (1) 9-7-3 to 14-3-5, Exterior (2) 14-3-5 to 23-8-12 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
  - Ceiling dead load (5.0 psf) on member(s). 27-29, 28-29
  - Bottom chord live load (40.0 psf) and additional bottom chord dead load (20.0 psf) applied only to room. 23-25, 21-23, 18-21, 16-18, 13-16, 11-13, 10-11
  - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
  - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
  - Attic room checked for L/360 deflection.

LOAD CASE(S) Standard

Job 24061831	Truss C4G	Truss Type Truss	Qty 1	Ply 1	Job Reference (optional)
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UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Heidi Ouzts Run: 8.73 S Jan 4 2024 Print: 8.730 S Jan 4 2024 MiTek Industries, Inc. Tue Jul 02 14:31:09 Page: 1  
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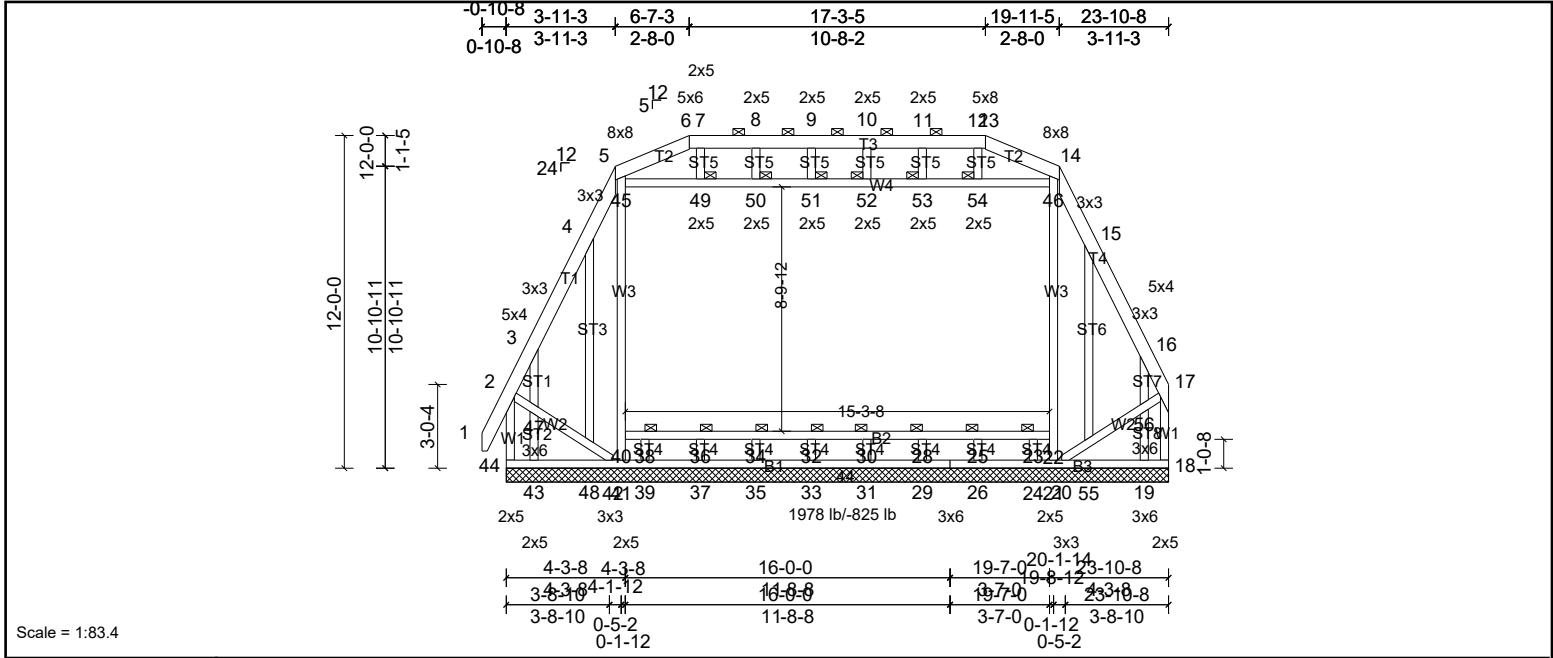


Plate Offsets (X, Y): [2:0-2-4,0-0-12], [5:0-2-11,Edge], [13:0-4-0,0-0-8], [14:0-2-11,Edge], [17:0-2-0,0-0-12], [18:0-2-12,0-1-0], [44:0-3-0,0-1-0]

Loading	(psf)	Spacing		CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	30.0	Plate Grip DOL	2-0-0	TC	0.76	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.21	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.76	Horz(CT)	0.02	20	n/a	n/a		
BCDL	15.0	Code	IRC2015/TPI2014	Matrix-MSH							Weight: 271 lb	FT = 20%

LUMBER		BRACING	
TOP CHORD	2x6 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 4-10-10 oc purlins, except end verticals, and 2-0-0 oc purlins (3-8-15 max.): 6-13.
BOT CHORD	2x4 SP No.2 *Except* B2:2x4 SP No.3	BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS	2x4 SP No.3 *Except* W3,W4:2x4 SP No.2	JOINTS	1 Brace at Jt(s): 38, 36, 34, 32, 30, 28, 25, 23, 49, 50, 51, 52, 53, 54
OTHERS	2x4 SP No.3		
<b>REACTIONS</b>	All bearings 23-10-8. (lb) - Max Horiz 44=401 (LC 9) Max Uplift All uplift 100 (lb) or less at joint(s) except 18=-726 (LC 7), 19=-474 (LC 11), 20=-384 (LC 1), 21=-826 (LC 22), 41=-809 (LC 23), 42=-432 (LC 20), 43=-386 (LC 10), 44=-741 (LC 6) Max Grav All reactions 250 (lb) or less at joint(s) 21, 24, 39, 41 except 18=1830 (LC 1), 19=527 (LC 19), 20=331 (LC 9), 26=291 (LC 16), 29=278 (LC 16), 31=281 (LC 16), 33=281 (LC 16), 35=278 (LC 16), 37=291 (LC 16), 42=353 (LC 8), 43=446 (LC 18), 44=1978 (LC 1)		
<b>FORCES</b>	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.		
TOP CHORD	2-44=-1973/724, 2-3=-1562/584, 3-4=-1746/539, 4-5=-1584/559, 5-6=-1771/604, 6-7=-1610/593, 7-8=-1610/593, 8-9=-1610/593, 9-10=-1610/593, 10-11=-1610/593, 11-12=-1610/593, 12-13=-1610/593, 13-14=-1772/605, 14-15=-1600/545, 15-16=-1752/518, 16-17=-1502/551, 17-18=-1829/707		
BOT CHORD	43-44=-385/355, 42-43=-385/355, 41-42=-312/726, 39-41=-324/789, 37-39=-324/789, 35-37=-324/789, 33-35=-324/789, 31-33=-324/789, 29-31=-324/789, 27-29=-324/789, 26-27=-324/789, 24-26=-324/789, 21-24=-324/789, 20-21=-310/726		
WEBS	2-47=-361/894, 47-48=-336/896, 42-48=-385/905, 40-41=-261/727, 40-45=-262/739, 5-45=-321/1054, 21-22=-250/729, 22-46=-253/741, 14-46=-318/1054, 20-55=-381/898, 55-56=-338/893, 17-56=-366/899, 45-49=-230/911, 49-50=-230/911, 50-51=-230/911, 51-52=-230/911, 52-53=-230/911, 53-54=-230/911, 46-54=-230/911, 3-47=-471/328, 43-47=-519/418, 16-56=-440/421, 19-56=-508/515		

- NOTES**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) -0-9-6 to 9-7-3, Exterior (2) 9-7-3 to 14-3-5, Corner (3) 14-3-5 to 23-8-12 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - Truss designed for wind loads in the plane of the truss only.
  - Provide adequate drainage to prevent water ponding.
  - All plates are 2x3 MT20 unless otherwise indicated.
  - Gable requires continuous bottom chord bearing.
  - Gable studs spaced at 2-0-0 oc.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-0-0-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 15.0psf.
  - Ceiling dead load (5.0 psf) on member(s). 45-49, 49-50, 50-51, 51-52, 52-53, 53-54, 46-54
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 740 lb uplift at joint 44, 725 lb uplift at joint 18, 432 lb uplift at joint 42, 808 lb uplift at joint 41, 825 lb uplift at joint 21, 384 lb uplift at joint 20, 386 lb uplift at joint 43 and 473 lb uplift at joint 19.
  - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
  - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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 UFPI plant. 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, erection and bracing available from SBCE and Truss Plate Institute.



Job 24061831	Truss C4G	Truss Type Truss	Qty 1	Ply 1	Job Reference (optional)
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UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Heidi Ouzts

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14) Attic room checked for L/360 deflection.

**LOAD CASE(S)** Standard

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 UFPI plant. 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, erection and bracing available from SBCA and Truss Plate Institute.



Job 24061831	Truss D1	Truss Type Truss	Qty 2	Ply 1	Job Reference (optional)
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UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Heidi Ouzts

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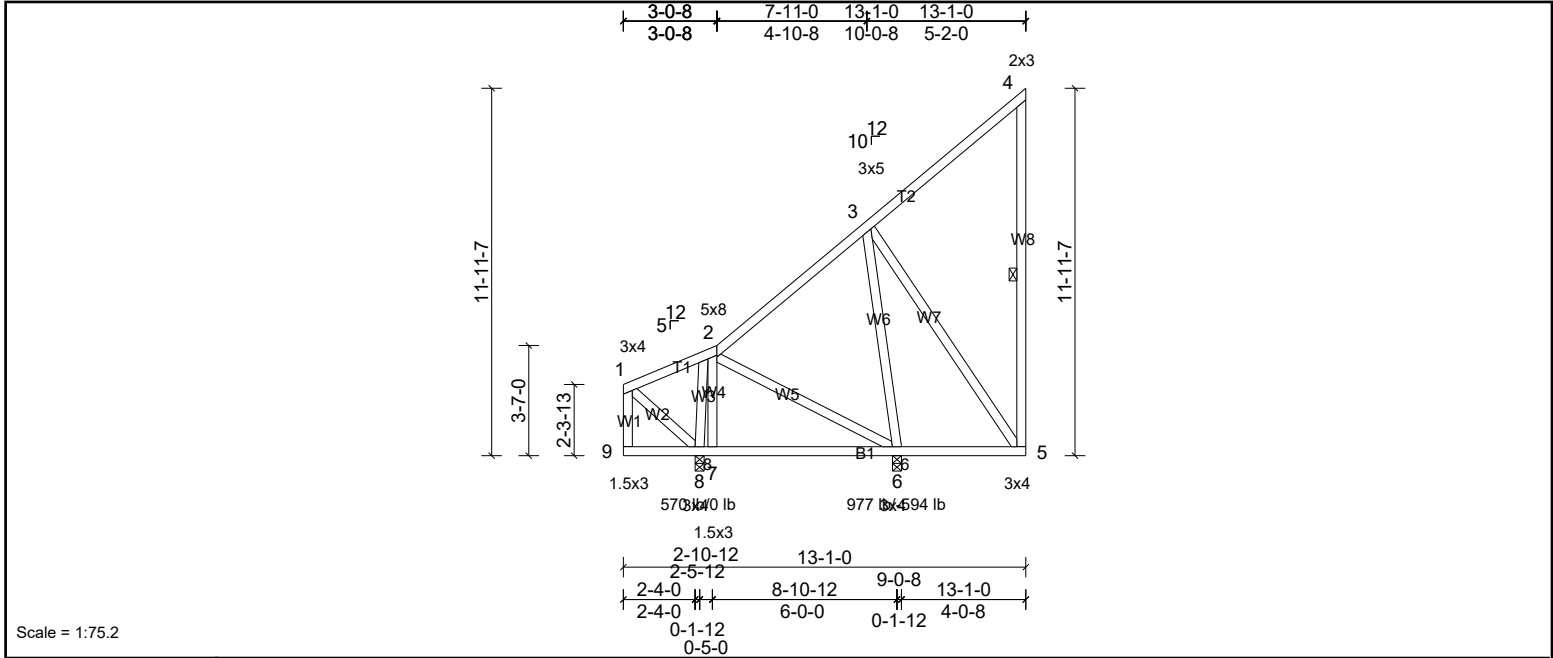


Plate Offsets (X, Y): [2:0-2-4,0-2-8]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	30.0	Plate Grip DOL	1.15	TC	0.51	Vert(LL)	-0.02	6-7	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.28	Vert(CT)	-0.06	6-7	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.77	Horz(CT)	0.00	6	n/a	n/a		
BCDL	15.0	Code	IRC2015/TPI2014	Matrix-MSH							Weight: 109 lb	FT = 20%

LUMBER		BRACING	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing. Except: 10-0-0 oc bracing: 8-9.
WEBS	2x4 SP No.3	WEBS	1 Row at midpt
<b>REACTIONS</b>	(lb/size)	6=889/0-3-8, (min. 0-1-8), 8=519/0-3-8, (min. 0-1-8)	4-5
	Max Horiz	8=413 (LC 10)	
	Max Uplift	6=594 (LC 10)	
	Max Grav	6=977 (LC 17), 8=570 (LC 19)	
<b>FORCES</b>	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.		
TOP CHORD	2-3=-396/384		
BOT CHORD	7-8=-322/265, 6-7=-324/256		
WEBS	2-7=0/303, 2-6=-335/377, 3-6=-750/483, 3-5=-132/255, 2-8=-499/0		

- NOTES**
- 1) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 4-2-12 to 7-1-8, Interior (1) 7-1-8 to 12-9-5, Exterior (2) 12-9-5 to 17-0-4 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 2) This truss has been designed for 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
  - 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 594 lb uplift at joint 6.
  - 5) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- LOAD CASE(S)** Standard



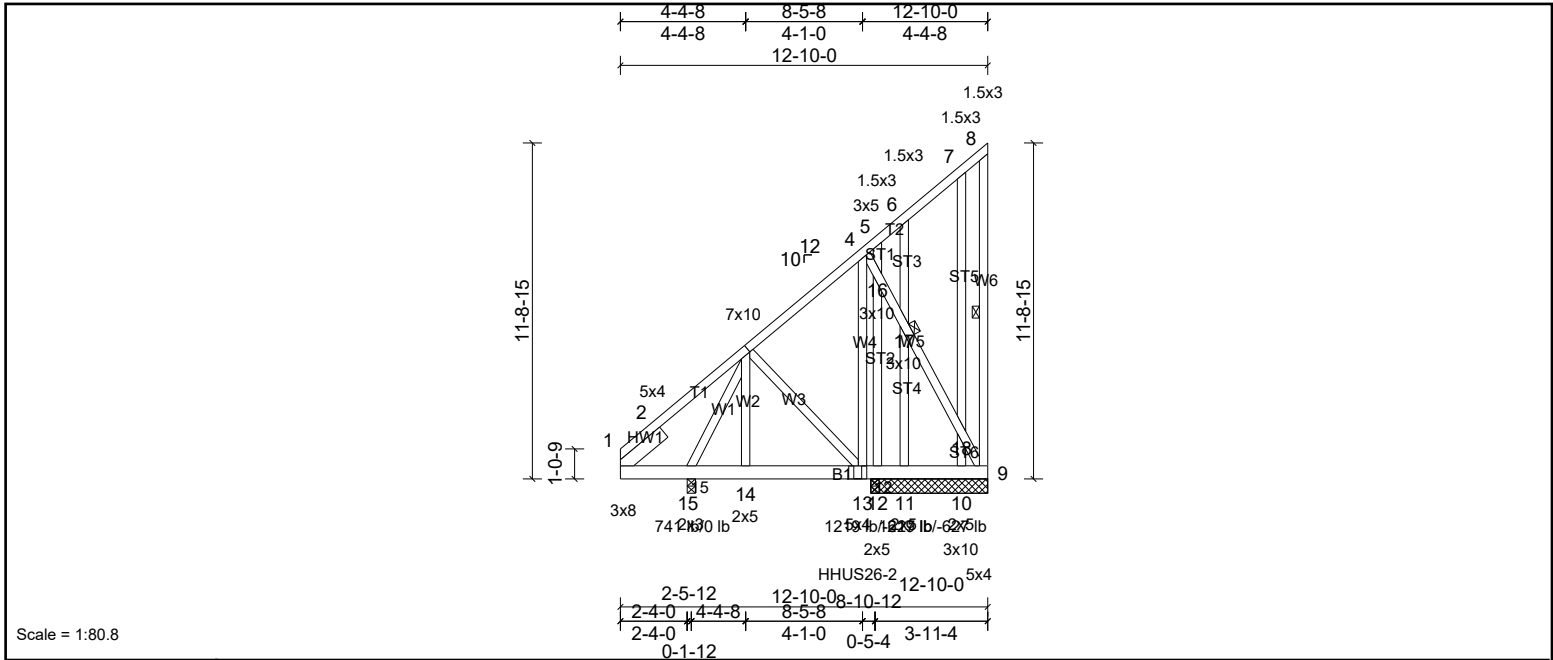
Job 24061831	Truss D2L	Truss Type Truss	Qty 1	Ply 2	Job Reference (optional)
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UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Heidi Ouzts

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Scale = 1:80.8

Plate Offsets (X, Y):	[3:0-1-12,Edge]	1-10-12
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Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	30.0	Plate Grip DOL	1.15	TC	0.17	Vert(LL)	0.00	13-14	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.18	Vert(CT)	-0.01	13-14	>999	180		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.06	Horz(CT)	0.00	9	n/a	n/a		
BCDL	15.0	Code	IRC2015/TPI2014	Matrix-MSH							Weight: 318 lb	FT = 20%

LUMBER	BRACING
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
WEBS 2x4 SP No.3	6-0-0 oc bracing: 1-15.
OTHERS 2x4 SP No.3	1 Row at midpt 8-9
SLIDER Left 2x6 SP No.2 -- 1-11-0	WEBS
	JOINTS 1 Brace at Jt(s): 17
<b>REACTIONS</b>	
All bearings 4-1-0. except 15=0-3-8, 12=0-3-8	
(lb) - Max Horiz 15=463 (LC 8)	
Max Uplift All uplift 100 (lb) or less at joint(s) except 9=-206 (LC 8), 10=-119 (LC 8), 11=-329 (LC 1), 12=-628 (LC 8)	
Max Grav All reactions 250 (lb) or less at joint(s) 9, 11 except 10=259 (LC 15), 12=1220 (LC 1), 15=741 (LC 1)	
<b>FORCES</b>	
(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
TOP CHORD 1-2=-211/341, 3-4=-263/46	
BOT CHORD 14-15=-302/202, 13-14=-303/201	
WEBS 3-13=-153/280, 3-15=-533/0	

- 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.  
Web connected as follows: 2x4 - 1 row at 0-9-0 oc.
  - All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
  - Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; Lumber DOL=1.60 plate grip DOL=1.60
  - Truss designed for wind loads in the plane of the truss only.
  - Gable studs spaced at 2-0-0 oc.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 205 lb uplift at joint 9, 329 lb uplift at joint 11, 118 lb uplift at joint 10 and 627 lb uplift at joint 12.
  - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
  - Use Simpson Strong-Tie HHUS26-2 (14-10d Girder, 4-10d Truss) or equivalent at 8-3-8 from the left end to connect truss(es) D14L (2 ply 2x6 SP) to back face of bottom chord, skewed 0.0 deg.to the left, sloping 0.0 deg. down.
  - Fill all nail holes where hanger is in contact with lumber.
- LOAD CASE(S)** Standard
- Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15  
Uniform Loads (lb/ft)  
Vert: 1-8=-80, 9-19=-30  
Concentrated Loads (lb)

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 UFPI plant. 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, erection and bracing available from SBCA and Truss Plate Institute.



Job 24061831	Truss D2L	Truss Type Truss	Qty 1	Ply 2	Job Reference (optional)
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UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Heidi Ouzts

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Vert: 13--615 (B)

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 UFPI plant. 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, erection and bracing available from SBCA and Truss Plate Institute.



Job 24061831	Truss D3	Truss Type Truss	Qty 2	Ply 1	Job Reference (optional)
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UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Heidi Ouzts

Run: 8.73 S Jan 4 2024 Print: 8.730 S Jan 4 2024 MiTek Industries, Inc. Tue Jul 02 14:31:11

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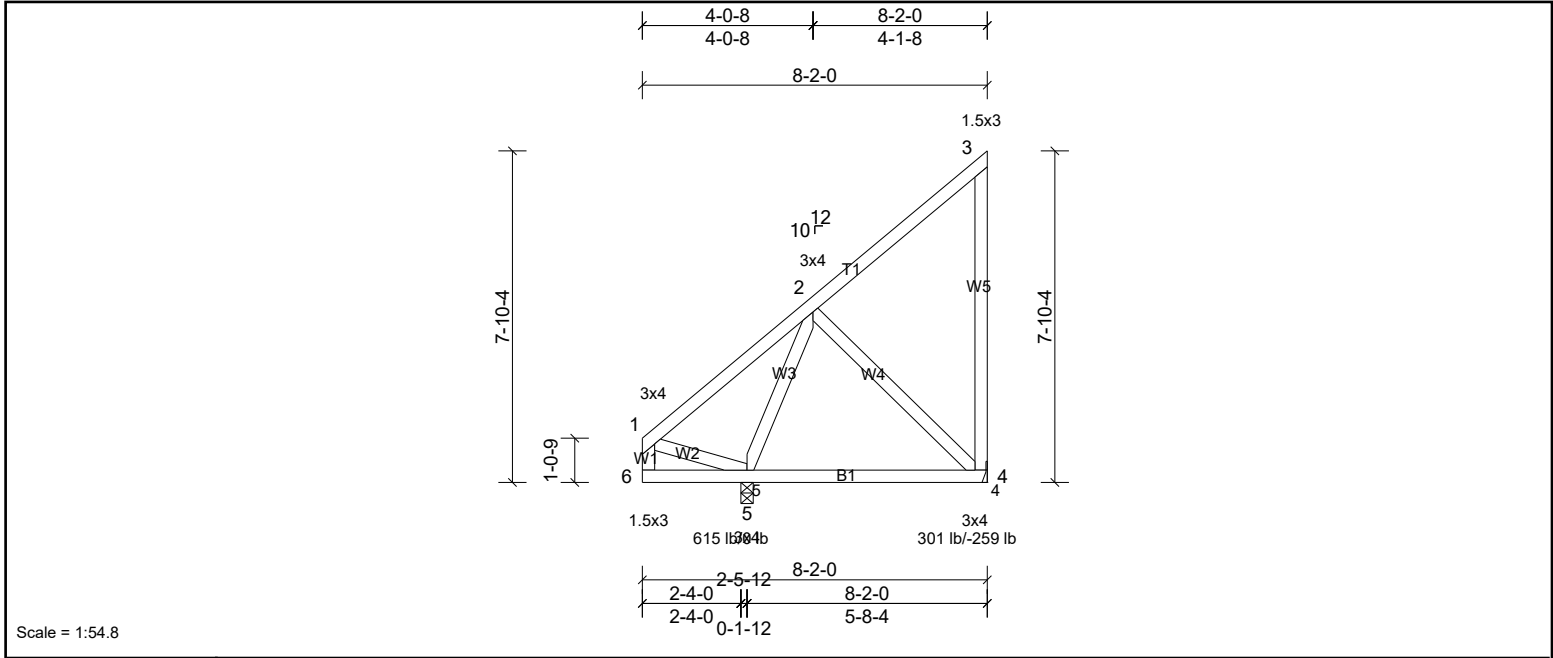


Plate Offsets (X, Y): [1:0-1-8,0-1-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	30.0	Plate Grip DOL	1.15	TC	0.34	Vert(LL)	-0.03	4-5	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.30	Vert(CT)	-0.07	4-5	>980	180		
BCLL	0.0*	Rep Stress Incr		WB	0.17	Horz(CT)	0.00	4	n/a	n/a		
BCDL	15.0	Code	IRC2015/TPI2014	Matrix-MSH							Weight: 57 lb	FT = 20%

LUMBER		BRACING	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS	2x4 SP No.3		

REACTIONS	(lb/size)	4=251/ Mechanical, (min. 0-1-8), 5=615/0-3-8, (min. 0-1-8)
	Max Horiz	5=287 (LC 10)
	Max Uplift	4=-259 (LC 10)
	Max Grav	4=301 (LC 17), 5=615 (LC 1)

FORCES	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS	2-5=-427/0, 2-4=-244/267

- NOTES**
- 1) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-2-12 to 3-2-12, Interior (1) 3-2-12 to 3-10-5, Exterior (2) 3-10-5 to 8-1-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 2) This truss has been designed for 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
  - 4) Refer to girder(s) for truss to truss connections.
  - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 259 lb uplift at joint 4.
  - 6) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S)	Standard

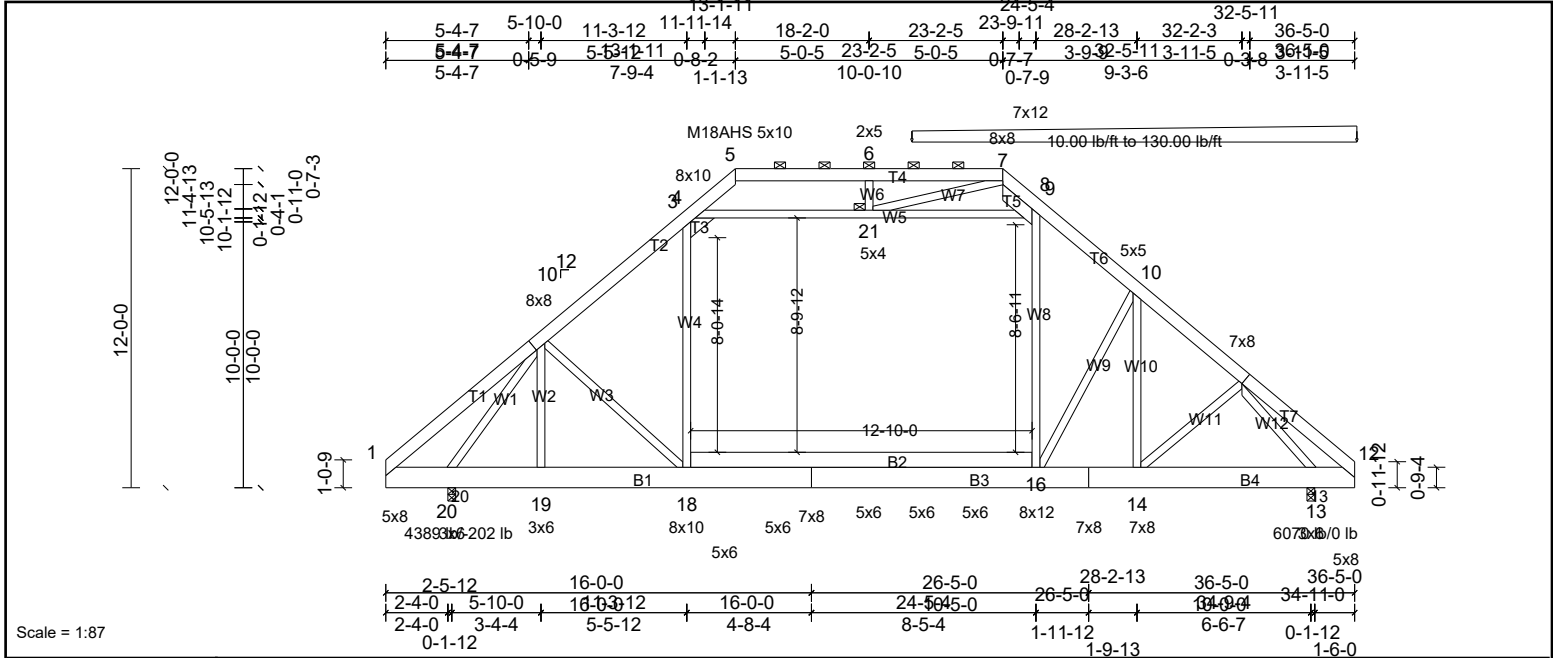
Job 24061831	Truss D4L	Truss Type Truss	Qty 1	Ply 2	Job Reference (optional)
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UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Heidi Ouzts

Run: 8.73 S Jan 4 2024 Print: 8.730 S Jan 4 2024 MiTek Industries, Inc. Tue Jul 02 14:31:11

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Scale = 1:87

Plate Offsets (X, Y): [2:0-2-4,0-4-8], [5:0-3-2,Edge], [9:0-5-2,Edge], [14:0-3-8,0-3-8], [16:0-4-0,0-5-8], [18:0-2-0,0-5-8]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	30.0	Plate Grip DOL	1.15	TC	0.86	Vert(LL)	-0.35	16-18	>999	240	M18AHS	186/179
TCDL	10.0	Lumber DOL	1.15	BC	0.88	Vert(CT)	-0.55	16-18	>707	180	MT20	244/190
BCLL	0.0*	Rep Stress Incr	NO	WB	0.68	Horz(CT)	0.03	13	n/a	n/a		
BCDL	15.0	Code	IRC2015/TPI2014	Matrix-MSH		Attic	-0.28	16-18	>554	360	Weight: 816 lb	FT = 20%

LUMBER		BRACING	
TOP CHORD	2x6 SP No.2 *Except* T6:2x6 SP No.1	TOP CHORD	Structural wood sheathing directly applied or 4-10-5 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 5-7.
BOT CHORD	2x10 SP 2400F 2.0E *Except* B2:1-1/2x6-3/4 SP No.2	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	2x4 SP No.3 *Except* W4,W8,W5:2x4 SP No.2	JOINTS	1 Brace at Jt(s): 21
REACTIONS			
	(lb/size) 13=4187/0-3-8, (min. 0-2-8), 20=3413/0-3-8, (min. 0-1-13)		
	Max Horiz 20=-311 (LC 4)		
	Max Uplift 20=-202 (LC 8)		
	Max Grav 13=6070 (LC 17), 20=4389 (LC 2)		
FORCES			
	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.		
TOP CHORD	1-2=-907/104, 2-3=-5400/0, 3-4=-3644/0, 4-5=-1240/253, 5-6=-1065/277, 6-28=-1065/277, 7-28=-1065/277, 7-8=-1578/131, 8-9=-4066/0, 9-10=-5774/0, 10-11=-6073/0, 11-12=-1565/0		
BOT CHORD	1-20=-29/598, 19-20=-396/2450, 19-29=-396/2450, 18-29=-396/2450, 18-30=0/4138, 30-31=0/4138, 17-31=0/4138, 17-32=0/4138, 32-33=0/4138, 33-34=0/4138, 34-35=0/4138, 35-36=0/4138, 16-36=0/4138, 15-16=0/4496, 14-15=0/4496, 13-14=0/3871, 12-13=0/925		
WEBS	2-20=-3017/277, 2-19=-2771/0, 2-18=0/2857, 3-18=0/2582, 9-16=0/3614, 10-16=-1172/192, 10-14=-170/359, 11-14=0/965, 11-13=-5117/0, 4-21=-3402/0, 8-21=-2275/301, 6-21=0/573, 7-21=-1394/0		

- NOTES**
- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:  
Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.  
Bottom chords connected as follows: 2x10 - 2 rows staggered at 0-9-0 oc.  
Web 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.
  - Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
  - Ceiling dead load (5.0 psf) on member(s). 3-4, 8-9, 4-21, 8-21
  - Bottom chord live load (40.0 psf) and additional bottom chord dead load (0.0 psf) applied only to room. 16-18
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 202 lb uplift at joint 20.
  - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
  - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
  - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 631 lb down and 398 lb up at 8-4-8, 49 lb down at 11-4-12, 49 lb down at 12-11-15, 49 lb down at 14-7-2, 49 lb down at 16-2-5, 49 lb down at 16-10-4, 455 lb down at 18-7-3, 455 lb down at 20-2-6, 455 lb down at 21-9-9, and 455 lb down at 23-4-12, and 2360 lb down at 24-6-8 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
  - Attic room checked for L/360 deflection.
- LOAD CASE(S)** Standard

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 UFPI plant. 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, erection and bracing available from SBCA and Truss Plate Institute.



Job 24061831	Truss D4L	Truss Type Truss	Qty 1	Ply 2	Job Reference (optional)
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UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Heidi Ouzts

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- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (lb/ft)  
Vert: 1-3=-80, 3-4=-90, 4-5=-80, 5-28=-80, 22-25=-30, 4-21=-10, 8-21=-10
- Concentrated Loads (lb)  
Vert: 17=-5 (F), 18=-5 (F), 16=-1000 (F), 29=-631 (F), 30=-5 (F), 31=-5 (F), 32=-5 (F), 33=-161 (F), 34=-161 (F), 35=-161 (F), 36=-161 (F)
- Trapezoidal Loads (lb/ft)  
Vert: 28=-90-to-7=-115, 7=-115-to-8=-121, 8=-131-to-9=-134, 9=-124-to-10=-151, 10=-151-to-11=-181, 11=-181-to-26=-207, 26=-207-to-12=-210

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 UFPI plant. 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, erection and bracing available from SBCA and Truss Plate Institute.



Job 24061831	Truss D5	Truss Type Truss	Qty 3	Ply 1	Job Reference (optional)
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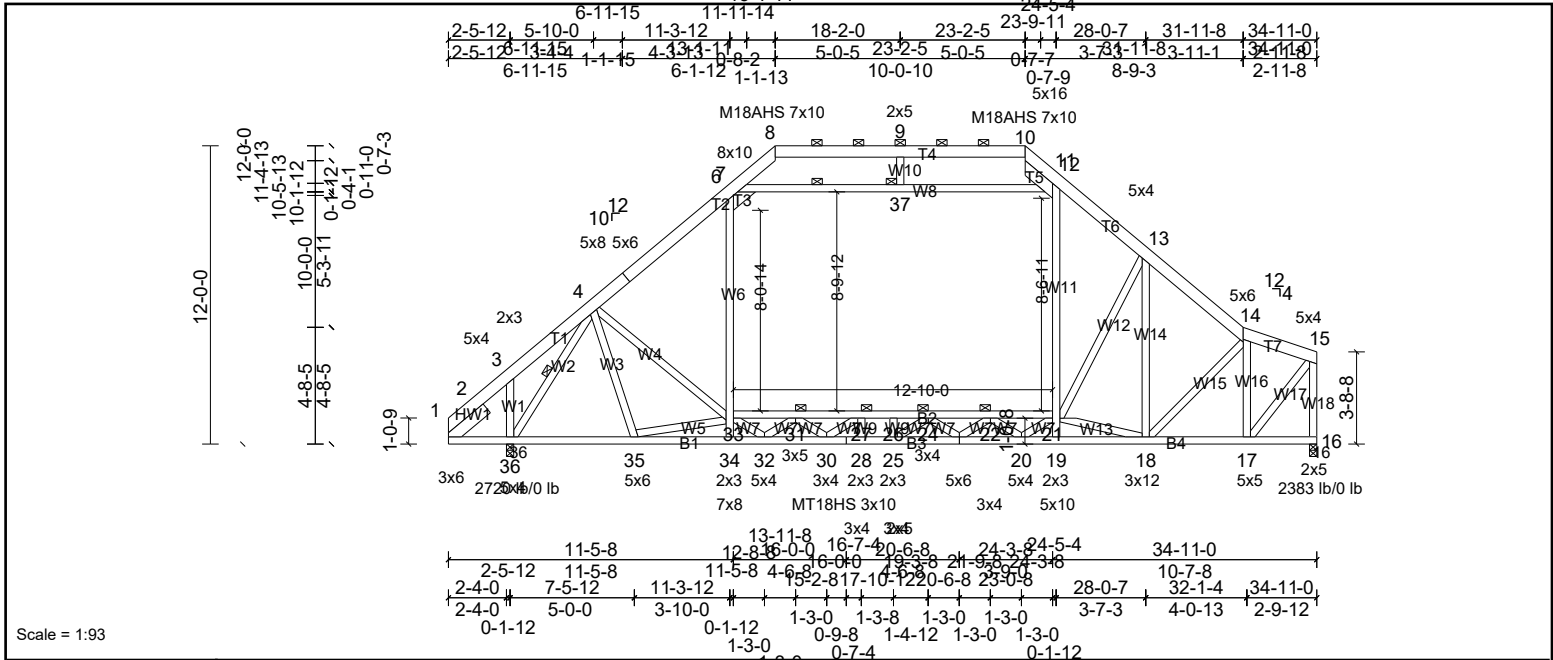


Plate Offsets (X, Y): [1:0-3-11,0-0-2], [8:0-5-8,0-3-6], [10:0-5-12,0-3-6], [12:0-7-0,Edge], [14:0-3-0,0-2-12], [15:0-2-0,0-2-4], [16:Edge,0-3-8], [18:0-5-8,0-1-8], [21:0-2-4,0-2-8], [23:0-3-0,0-3-0], [33:0-2-8,Edge]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in (loc)	l/defl	L/d	PLATES	GRIP		
TCLL (roof)	30.0	Plate Grip DOL	1.15	TC	0.77	Vert(LL)	-0.12	22-24	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	1.00	Vert(CT)	-0.27	23-25	>999	180	M18AHS	186/179
BCLL	0.0*	Rep Stress Incr	YES	WB	0.93	Horz(CT)	0.06	16	n/a	n/a	MT18HS	244/190
BCDL	15.0	Code	IRC2015/TPI2014	Matrix-MSH	Attic	-0.07	21-33	>999	360		Weight: 340 lb	FT = 20%

LUMBER	BRACING
TOP CHORD 2x6 SP No.2	TOP CHORD Structural wood sheathing directly applied or 4-0-15 oc purlins, except end verticals, and 2-0-0 oc purlins (4-8-11 max.): 8-10.
BOT CHORD 2x4 SP No.2 *Except* B2:2x4 SP No.3	BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.
WEBS 2x4 SP No.3 *Except* W6,W11,W8:2x4 SP No.2	WEBS 1 Row at midpt 7-37, 4-36
SLIDER Left 2x6 SP No.2 -- 1-11-0	JOINTS 1 Brace at Jt(s): 22, 31, 24, 27, 37

REACTIONS	(lb/size)	16=2256/0-3-8, (min. 0-2-13), 36=2598/0-3-8, (min. 0-3-3)
Max Horiz	36=324 (LC 9)	
Max Grav	16=2383 (LC 2), 36=2720 (LC 2)	

FORCES	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	4-5=-2787/0, 5-43=-2647/0, 6-43=-2626/0, 6-7=-1931/143, 7-8=-1095/255, 8-44=-956/232, 9-44=-956/232, 9-45=-956/232, 10-45=-956/232, 10-11=-1002/241, 11-12=-2027/59, 12-46=-2574/27, 13-46=-2709/2, 13-14=-2461/56, 14-15=-1524/59, 15-16=-2339/26
BOT CHORD	35-36=-112/1528, 34-35=-963/547, 32-34=-1006/547, 30-32=-68/2092, 29-30=0/3054, 28-29=0/3054, 25-28=0/3054, 23-25=0/3015, 20-23=0/2398, 19-20=-673/1169, 18-19=-648/1179, 17-18=0/1474, 31-33=-225/1667, 27-31=-651/251, 26-27=-1307/0, 24-26=-1307/0, 22-24=-888/86, 21-22=-334/1158
WEBS	6-33=0/1128, 12-21=0/1205, 14-17=-1676/0, 7-37=-1358/0, 11-37=-1362/0, 15-17=0/2256, 20-21=0/1401, 32-33=0/1521, 20-22=-1382/0, 31-32=-1499/0, 22-23=0/716, 30-31=0/911, 23-24=-581/8, 27-30=-955/49, 24-25=-294/277, 4-36=-2667/0, 4-33=-13/1085, 4-35=-413/68, 33-35=-28/1955, 13-18=-832/12, 14-18=0/569, 18-21=-108/1933, 13-21=-96/578, 3-36=-315/148

- NOTES**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf, BCDL=6.0psf; h=35ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-1-0 to 3-7-0, Interior (1) 3-7-0 to 9-8-11, Exterior (2) 9-8-11 to 16-8-11, Interior (1) 16-8-11 to 19-9-5, Exterior (2) 19-9-5 to 26-9-5, Interior (1) 26-9-5 to 32-0-8, Exterior (2) 32-0-8 to 34-10-4 zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
  - Ceiling dead load (5.0 psf) on member(s). 6-7, 11-12, 7-37, 11-37
  - Bottom chord live load (40.0 psf) and additional bottom chord dead load (20.0 psf) applied only to room. 31-33, 27-31, 26-27, 24-26, 22-24, 21-22
  - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
  - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
  - Attic room checked for L/360 deflection.

**LOAD CASE(S)** Standard

Job 24061831	Truss D6L	Truss Type Truss	Qty 2	Ply 2	Job Reference (optional)
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UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Heidi Ouzts

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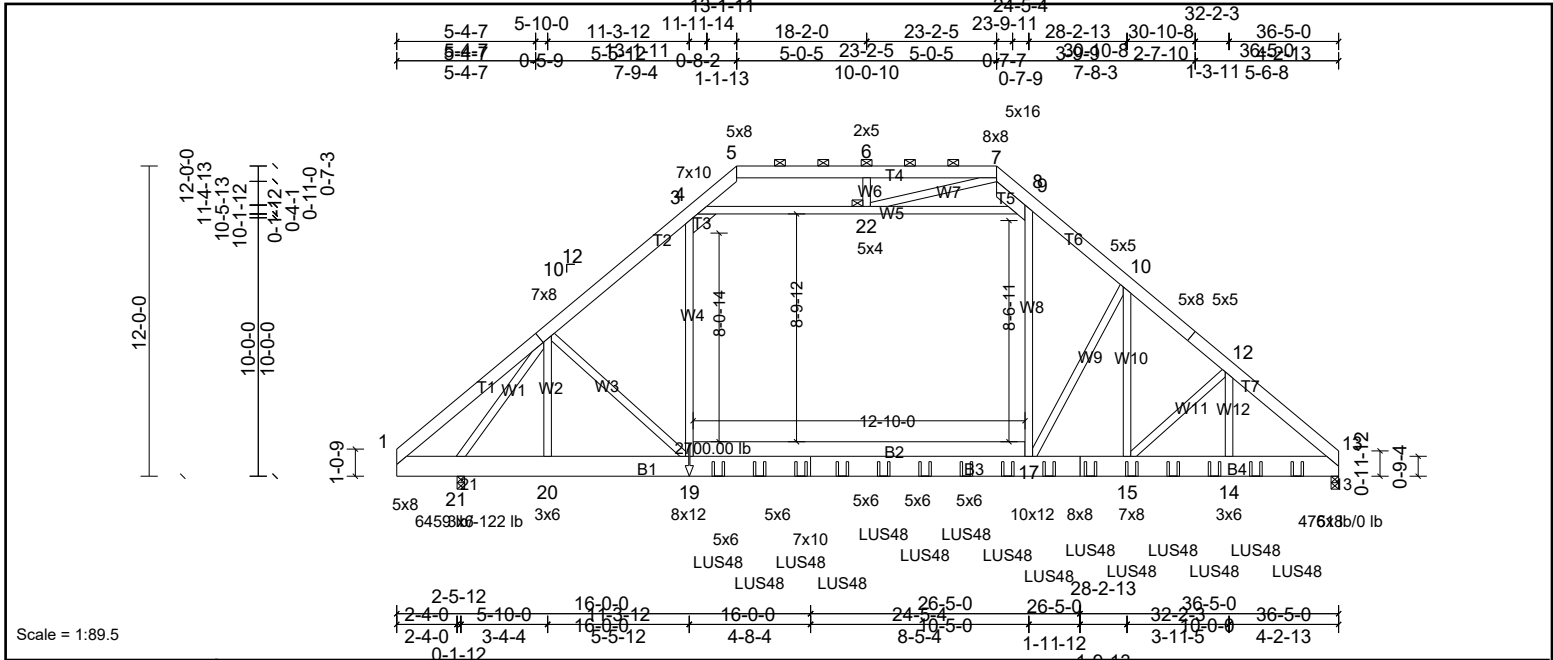


Plate Offsets (X, Y): [2:0-2-8,0-4-8], [3:0-5-0,0-4-8], [5:0-2-2,Edge], [9:0-7-0,Edge], [13:0-8-0,0-0-1], [15:0-3-8,0-3-8], [17:0-6-0,0-2-0], [19:0-4-0,0-5-8]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	30.0	Plate Grip DOL	1.15	TC	0.83	Vert(LL)	-0.27	17-19	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.60	Vert(CT)	-0.40	17-19	>999	180		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.86	Horz(CT)	0.04	13	n/a	n/a		
BCDL	15.0	Code	IRC2015/TPI2014	Matrix-MSH		Attic	-0.21	17-19	>739	360	Weight: 813 lb	FT = 20%

LUMBER		BRACING	
TOP CHORD	2x6 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 4-1-14 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 5-7.
BOT CHORD	2x10 SP 2400F 2.0E *Except* B2:1-1/2x6-3/4 SP No.2	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	2x4 SP No.3 *Except* W4,W8,W5:2x4 SP No.2	JOINTS	1 Brace at Jt(s): 22
REACTIONS			
(lb/size)	13=3418/0-3-8, (min. 0-2-0), 21=4804/0-3-8, (min. 0-2-11)		
Max Horiz	21=-311 (LC 4)		
Max Uplift	21=-122 (LC 8)		
Max Grav	13=4761 (LC 17), 21=6459 (LC 16)		
FORCES			
(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.			
TOP CHORD	1-2=-1382/79, 2-3=-6828/0, 3-4=-4138/10, 4-5=-1263/256, 5-6=-1211/285, 6-7=-1211/285, 7-8=-771/138, 8-9=-4980/0, 9-10=-6350/0, 10-11=-5828/0, 11-12=-5947/0, 12-13=-6256/0		
BOT CHORD	1-21=-23/992, 20-21=-317/4228, 19-20=-317/4228, 19-29=0/5099, 29-30=0/5099, 30-31=0/5099, 18-31=0/5099, 18-32=0/5099, 32-33=0/5099, 33-34=0/5099, 34-35=0/5099, 35-36=0/5099, 17-36=0/5099, 17-37=0/4456, 16-37=0/4456, 16-38=0/4456, 15-38=0/4456, 15-39=0/4707, 39-40=0/4707, 14-40=0/4707, 14-41=0/4707, 41-42=0/4707, 13-42=0/4707		
WEBS	2-21=-5422/177, 2-20=-815/0, 2-19=0/1622, 3-19=0/3902, 9-17=0/3313, 10-17=-623/1455, 10-15=-1508/512, 12-15=-417/150, 12-14=-9/273, 4-22=-4050/0, 8-22=-5100/275, 7-22=-502/1153		

- NOTES**
- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:  
Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.  
Bottom chords connected as follows: 2x10 - 2 rows staggered at 0-9-0 oc.  
Web connected as follows: 2x4 - 1 row at 0-9-0 oc, Except member 3-19 2x4 - 1 row at 0-6-0 oc.
  - All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section.  
Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
  - Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
  - Ceiling dead load (5.0 psf) on member(s). 3-4, 8-9, 4-22, 8-22
  - Bottom chord live load (40.0 psf) and additional bottom chord dead load (20.0 psf) applied only to room. 17-19
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 122 lb uplift at joint 21.
  - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
  - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
  - Use Simpson Strong-Tie LUS48 (6-10d Girder, 4-10d Truss, Single Ply Girder) or equivalent spaced at 1-7-3 oc max. starting at 12-6-3 from the left end to 34-10-13 to connect truss(es) F209 (1 ply 2x4 SP) to back face of bottom chord.
  - Fill all nail holes where hanger is in contact with lumber.
  - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 4095 lb down and 486 lb up at 11-4-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
  - Attic room checked for L/360 deflection.
- LOAD CASE(S)** Standard

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 UFPI plant. 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, erection and bracing available from SBCE and Truss Plate Institute.



Job 24061831	Truss D6L	Truss Type Truss	Qty 2	Ply 2	Job Reference (optional)
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UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Heidi Ouzts

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

Uniform Loads (lb/ft)

Vert: 1-3=-80, 3-4=-90, 4-5=-80, 5-7=-80, 7-8=-80, 8-9=-90, 9-13=-80, 19-23=-30, 17-19=-70, 17-26=-30, 4-22=-10, 8-22=-10

Concentrated Loads (lb)

Vert: 19=-2700 (F), 15=-57 (B), 29=-57 (B), 30=-57 (B), 31=-57 (B), 32=-57 (B), 33=-57 (B), 34=-57 (B), 35=-57 (B), 36=-57 (B), 37=-57 (B), 38=-57 (B), 39=-57 (B), 40=-57 (B), 41=-57 (B), 42=-57 (B)

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 UFPI plant. 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, erection and bracing available from SBCA and Truss Plate Institute.





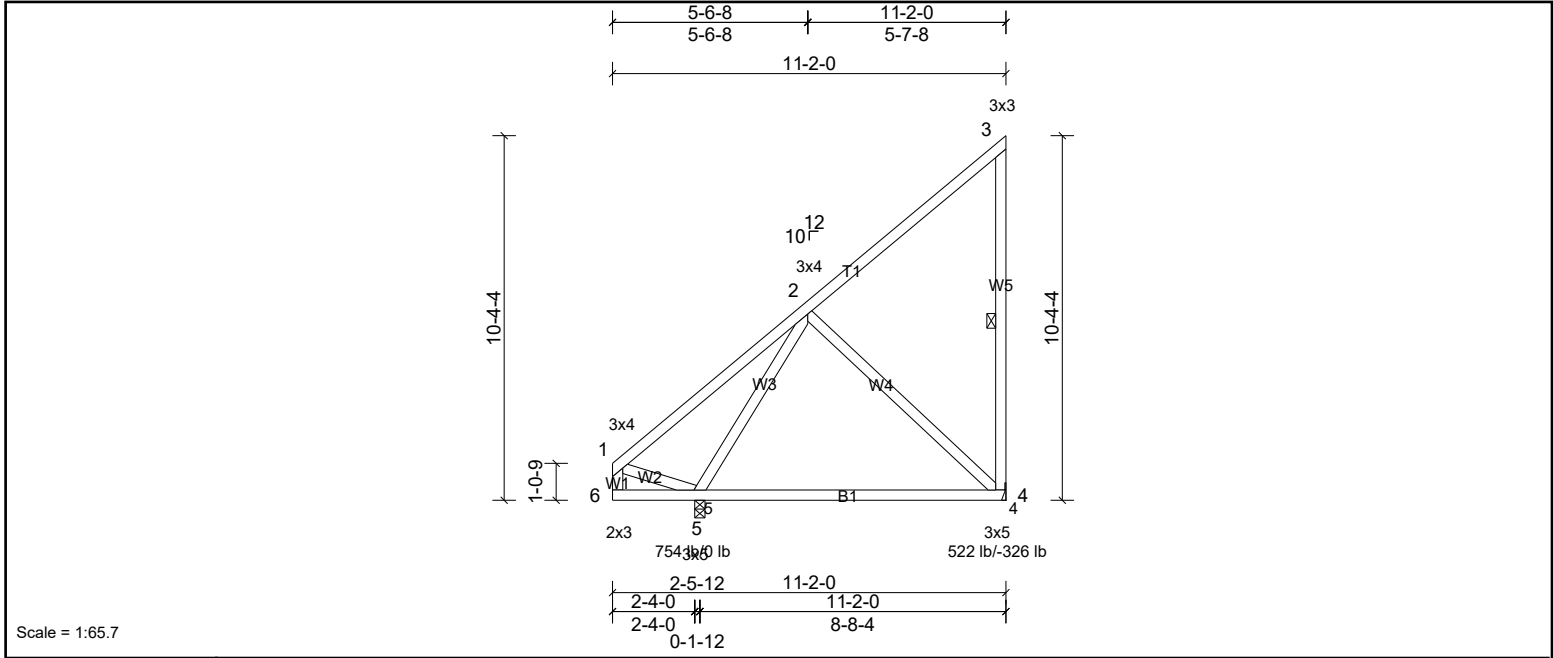
Job 24061831	Truss D7	Truss Type Truss	Qty 2	Ply 1	Job Reference (optional)
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UFPI Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Heidi Ouzts

Run: 8.73 S Jan 4 2024 Print: 8.730 S Jan 4 2024 MiTek Industries, Inc. Tue Jul 02 14:31:14

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Scale = 1:65.7  
Plate Offsets (X, Y): [1:0-1-0,0-1-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	30.0	Plate Grip DOL	1.15	TC	0.60	Vert(LL)	-0.15	4-5	>682	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.79	Vert(CT)	-0.38	4-5	>274	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.42	Horz(CT)	0.00	4	n/a	n/a		
BCDL	15.0	Code	IRC2015/TPI2014	Matrix-MSH							Weight: 77 lb	FT = 20%

LUMBER		BRACING	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	2x4 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 3-4

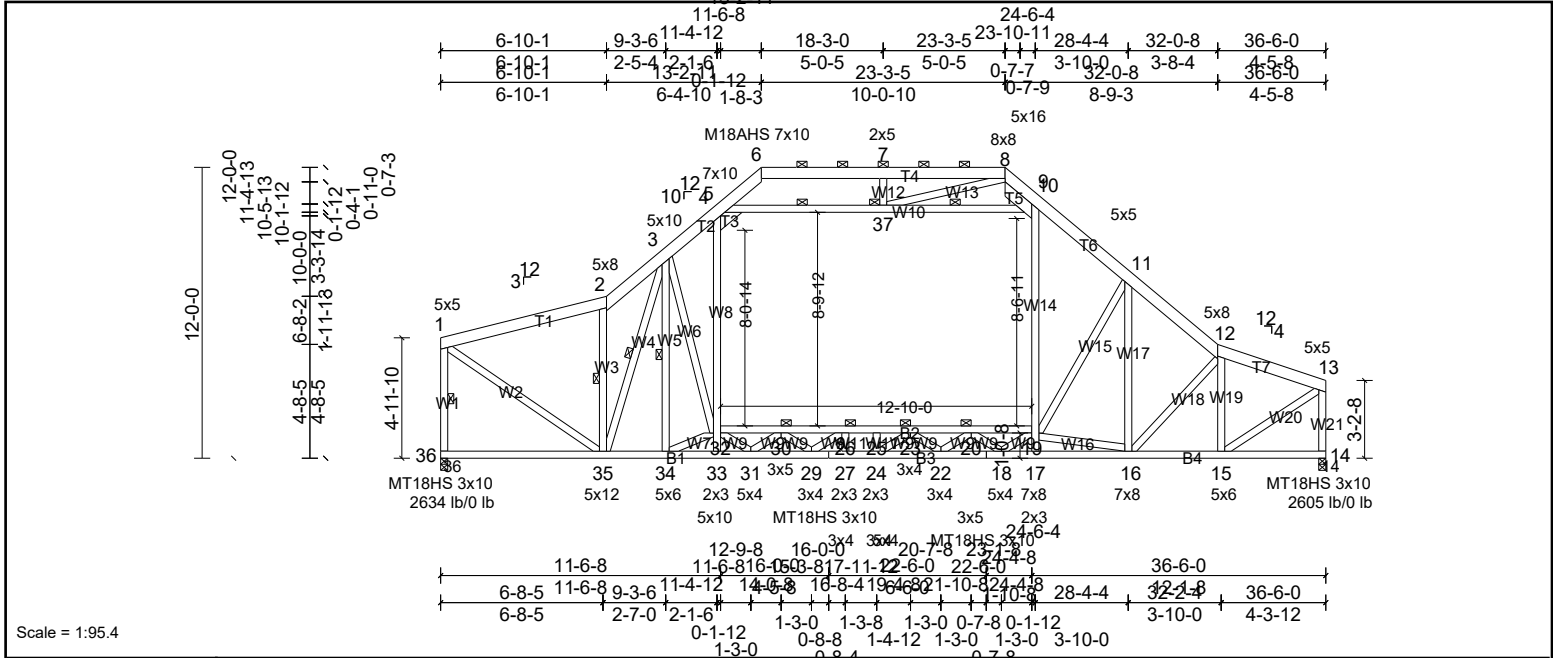
REACTIONS	(lb/size)	4=443/ Mechanical, (min. 0-1-8), 5=754/0-3-8, (min. 0-1-8)
	Max Horiz	5=397 (LC 10)
	Max Uplift	4=-326 (LC 10)
	Max Grav	4=522 (LC 17), 5=754 (LC 1)

FORCES	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-7=-42/252
BOT CHORD	5-9=-241/279, 9-10=-241/279, 4-10=-241/279
WEBS	2-5=-482/0, 2-4=-375/334

- NOTES**
- 1) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-2-12 to 3-2-12, Interior (1) 3-2-12 to 6-10-5, Exterior (2) 6-10-5 to 11-1-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 2) This truss has been designed for 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 15.0psf.
  - 4) Refer to girder(s) for truss to truss connections.
  - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 326 lb uplift at joint 4.
  - 6) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

**LOAD CASE(S)** Standard

Job 24061831	Truss D8	Truss Type Truss	Qty 5	Ply 1	Job Reference (optional)
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Scale = 1:95.4

Plate Offsets (X, Y): [1:0-2-4,0-2-4], [2:0-4-0,0-2-12], [4:0-5-0,0-4-8], [6:0-5-8,0-3-6], [10:0-7-0,Edge], [12:0-4-0,0-2-12], [13:0-2-4,0-2-8], [19:0-2-8,0-3-4], [32:0-2-12,0-2-12]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in (loc)	l/defl	L/d	PLATES	GRIP		
TCLL (roof)	30.0	Plate Grip DOL	1.15	TC	0.77	Vert(LL)	-0.15	20-23	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.98	Vert(CT)	-0.35	23-25	>999	180	M18AHS	186/179
BCLL	0.0*	Rep Stress Incr	YES	WB	0.97	Horz(CT)	0.08	14	n/a	n/a	MT18HS	244/190
BCDL	15.0	Code	IRC2015/TPI2014	Matrix-MSH	Attic		-0.08	19-32	>999	360		Weight: 373 lb FT = 20%

LUMBER	BRACING
TOP CHORD 2x6 SP No.2	TOP CHORD Structural wood sheathing directly applied or 3-2-2 oc purlins, except end verticals, and 2-0-0 oc purlins (5-0-13 max.): 6-8.
BOT CHORD 2x4 SP No.2 *Except* B2:2x4 SP No.3	BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.
WEBS 2x4 SP No.3 *Except* W8,W14,W10,W20,W2,W7:2x4 SP No.2	WEBS 1 Row at midpt 2-35, 5-37, 9-37, 1-36, 3-35, 3-34
REACTIONS (lb/size) 14=2498/0-3-8, (min. 0-3-1), 36=2515/0-3-8, (min. 0-3-2) Max Horiz 36=-318 (LC 6) Max Grav 14=2605 (LC 2), 36=2634 (LC 2)	JOINTS 1 Brace at Jt(s): 20, 30, 23, 26, 37

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

TOP CHORD  
1-38=-2572/49, 2-38=-2514/59, 2-3=-3225/166, 3-4=-3521/55, 4-5=-2300/144, 5-6=-1271/291, 6-39=-1204/289, 7-39=-1204/289, 7-40=-1204/289, 8-40=-1204/289, 8-9=-903/207, 9-10=-2527/68, 10-41=-3183/25, 11-41=-3310/0, 11-12=-3224/71, 12-42=-2462/60, 13-42=-2537/52, 13-14=-2540/65, 1-36=-2537/71

BOT CHORD  
35-36=-261/276, 34-35=0/2446, 33-34=-660/1103, 31-33=-681/1088, 29-31=0/2540, 28-29=0/3386, 27-28=0/3386, 24-27=0/3292, 21-22=0/2587, 18-21=0/2587, 17-18=-561/1348, 16-17=-536/1361, 15-16=0/2413, 30-32=-171/1642, 26-30=-675/344, 25-26=-1239/0, 23-25=-1239/0, 20-23=-634/196, 19-20=-195/1497

WEBS  
2-35=-1663/205, 4-32=0/1808, 10-19=0/1487, 12-15=-1490/24, 5-37=-1628/0, 9-37=-1935/0, 13-15=0/2833, 1-35=0/2954, 18-19=0/1460, 31-32=0/1468, 18-20=-1458/0, 30-31=-1426/0, 20-22=0/796, 29-30=0/857, 22-23=-675/0, 26-29=-880/14, 23-24=-256/321, 11-16=-566/0, 16-19=0/2331, 11-19=-195/454, 3-35=-196/257, 3-34=-1123/0, 32-34=0/2742, 3-32=-301/655, 8-37=-220/638

- NOTES**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 18-1-12 to 21-9-9, Interior (1) 21-9-9 to 27-3-6, Exterior (2) 27-3-6 to 34-10-8, Interior (1) 34-10-8 to 37-7-8, Exterior (2) 37-7-8 to 44-11-2, Interior (1) 44-11-2 to 50-8-7, Exterior (2) 50-8-7 to 54-4-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - Provide adequate drainage to prevent water ponding.
  - All plates are MT20 plates unless otherwise indicated.
  - The Fabrication Tolerance at joint 6 = 16%
  - 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
  - Ceiling dead load (5.0 psf) on member(s). 4-5, 9-10, 5-37, 9-37
  - Bottom chord live load (40.0 psf) and additional bottom chord dead load (20.0 psf) applied only to room. 30-32, 26-30, 25-26, 23-25, 20-23, 19-20
  - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
  - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
  - Attic room checked for L/360 deflection.

**LOAD CASE(S)** Standard

Job 24061831	Truss D9L	Truss Type Truss	Qty 2	Ply 2	Job Reference (optional)
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UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Heidi Ouzts Run: 8.73 S Jan 4 2024 Print: 8.730 S Jan 4 2024 MiTek Industries, Inc. Tue Jul 02 14:31:16 Page: 1  
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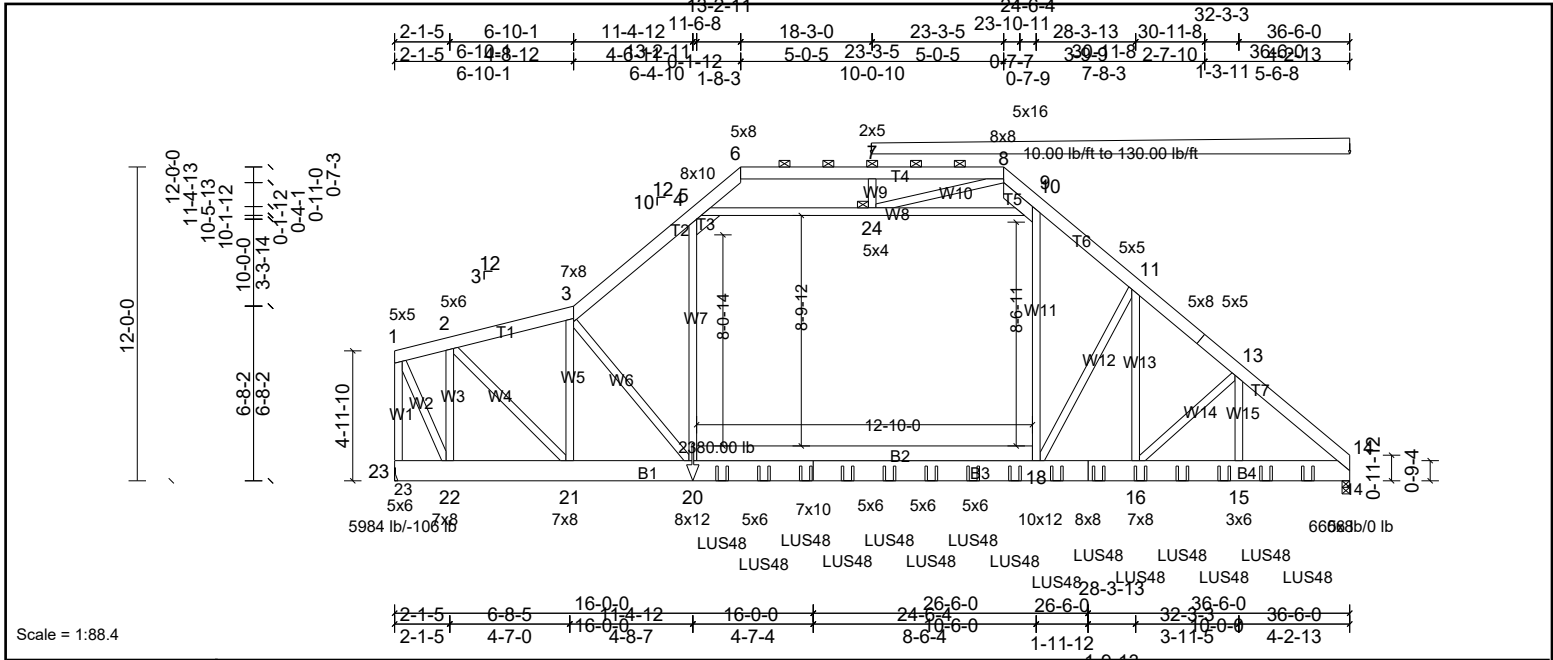


Plate Offsets (X, Y): [1:0-2-8,0-2-0], [4:0-5-0,0-3-4], [6:0-2-2,Edge], [10:0-7-0,Edge], [14:0-2-9,0-2-8], [16:0-3-8,0-3-8], [18:0-6-0,0-2-0], [20:0-4-0,0-5-8], [21:0-3-8,0-3-8], [22:0-3-8,0-3-8]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	30.0	Plate Grip DOL	1.15	TC	0.86	Vert(LL)	-0.33	18-20	>999	240	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.61	Vert(CT)	-0.51	18-20	>856	180	
BCLL	0.0*	Rep Stress Incr	NO	WB	0.69	Horz(CT)	0.04	14	n/a	n/a	
BCDL	15.0	Code	IRC2015/TPI2014	Matrix-MSH		Attic	-0.20	18-20	>781	360	Weight: 846 lb FT = 20%

LUMBER		BRACING	
TOP CHORD	2x6 SP No.2 *Except* T2:2x6 SP No.1	TOP CHORD	Structural wood sheathing directly applied or 4-0-12 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 6-8.
BOT CHORD	2x10 SP 2400F 2.0E *Except* B2:1-1/2x6-3/4 SP No.2	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	2x4 SP No.3 *Except* W4,W7,W11,W8,W2:2x4 SP No.2	JOINTS	1 Brace at Jt(s): 24
REACTIONS			
	(lb/size) 14=4676/0-3-8, (min. 0-2-12), 23=4544/ Mechanical, (min. 0-1-8)		
	Max Horiz 23=-312 (LC 9)		
	Max Uplift 23=-106 (LC 8)		
	Max Grav 14=6606 (LC 17), 23=5984 (LC 17)		
FORCES			
	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.		
TOP CHORD	1-2=-2344/29, 2-3=-6369/154, 3-4=-8151/0, 4-5=-4945/28, 5-6=-1474/290, 6-7=-1497/322, 7-8=-1497/322, 8-9=-1064/188, 9-10=-5977/4, 10-11=-7786/0, 11-12=-7546/0, 12-13=-7855/0, 13-14=-8540/0, 1-23=-5609/61		
BOT CHORD	22-23=-248/311, 21-22=-166/2359, 20-21=-174/6369, 20-28=0/6076, 28-29=0/6076, 19-29=0/6076, 19-30=0/6076, 30-31=0/6076, 31-32=0/6076, 32-33=0/6076, 33-34=0/6076, 18-34=0/6076, 18-35=0/5733, 17-35=0/5733, 17-36=0/5733, 16-36=0/5733, 16-37=0/6291, 37-38=0/6291, 15-38=0/6291, 15-39=0/6291, 39-40=0/6291, 14-40=0/6291		
WEBS	2-22=-5200/226, 2-21=-117/5772, 3-21=-3855/0, 3-20=-855/594, 4-20=0/4685, 10-18=0/3786, 11-18=-423/896, 11-16=-1142/355, 13-16=-777/184, 5-24=-4775/0, 9-24=-5714/183, 1-22=-42/5376, 8-24=-430/1176		

- NOTES**
- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:  
 Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc.  
 Bottom chords connected as follows: 2x10 - 2 rows staggered at 0-9-0 oc.  
 Web connected as follows: 2x4 - 1 row at 0-9-0 oc, Except member 4-20 2x4 - 1 row 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 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf, BCDL=6.0psf; h=35ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
  - Ceiling dead load (5.0 psf) on member(s), 3-4, 4-5, 9-10, 5-24, 9-24
  - Bottom chord live load (40.0 psf) and additional bottom chord dead load (20.0 psf) applied only to room. 18-20
  - Refer to girder(s) for truss to truss connections.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 106 lb uplift at joint 23.
  - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
  - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
  - Use Simpson Strong-Tie LUS48 (6-10d Girder, 4-10d Truss, Single Ply Girder) or equivalent spaced at 1-7-3 oc max. starting at 30-6-3 from the left end to 52-10-13 to connect truss(es) F209 (1 ply 2x4 SP) to back face of bottom chord.
  - Fill all nail holes where hanger is in contact with lumber.
  - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 3610 lb down and 428 lb up at 29-4-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

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 UFPI plant. 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, erection and bracing available from SBCE and Truss Plate Institute.



Job 24061831	Truss D9L	Truss Type Truss	Qty 2	Ply 2	Job Reference (optional)
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UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Heidi Ouzts

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17) Attic room checked for L/360 deflection.

**LOAD CASE(S)** Standard

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

Uniform Loads (lb/ft)

Vert: 1-3=-80, 3-5=-90, 5-6=-80, 6-7=-80, 20-23=-30, 18-20=-70, 18-25=-30, 5-24=-10, 9-24=-10

Concentrated Loads (lb)

Vert: 19=-57 (B), 20=-2380 (F), 16=-57 (B), 28=-57 (B), 29=-57 (B), 30=-57 (B), 31=-57 (B), 32=-57 (B), 33=-57 (B), 34=-57 (B), 35=-57 (B), 36=-57 (B), 37=-57 (B), 38=-57 (B), 39=-57 (B), 40=-57 (B)

Trapezoidal Loads (lb/ft)

Vert: 7=-90-to-8=-123, 8=-123-to-9=-129, 9=-139-to-10=-141, 10=-131-to-11=-156, 11=-156-to-12=-173, 12=-173-to-13=-182, 13=-182-to-26=-207, 26=-207-to-14=-210

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 UFPI plant. 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, erection and bracing available from SBCA and Truss Plate Institute.



Job 24061831	Truss D10	Truss Type Truss	Qty 2	Ply 1	Job Reference (optional)
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UFPI Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Heidi Ouzts

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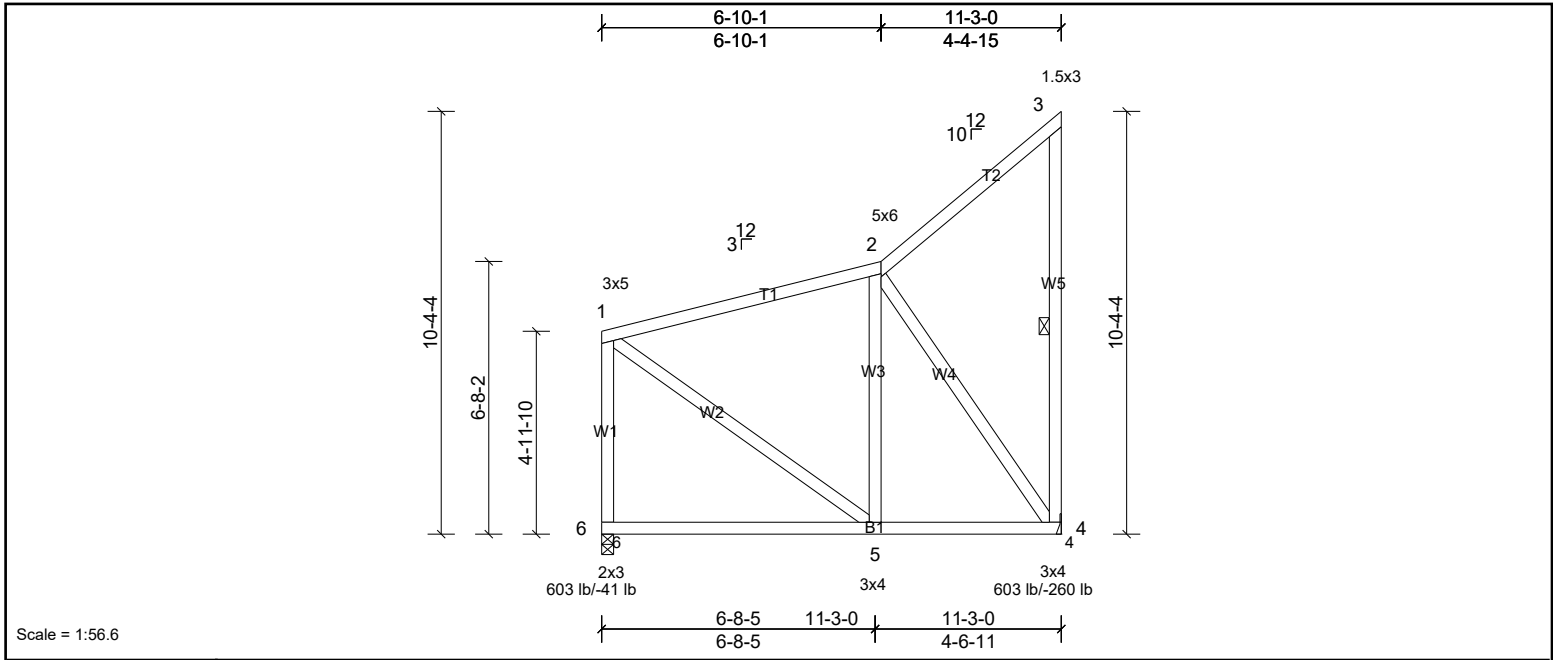


Plate Offsets (X, Y): [1:0-2-0,0-1-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	30.0	Plate Grip DOL	1.15	TC	0.87	Vert(LL)	-0.05	5-6	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.41	Vert(CT)	-0.13	5-6	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.57	Horz(CT)	0.00	4	n/a	n/a		
BCDL	15.0	Code	IRC2015/TPI2014	Matrix-MSH							Weight: 89 lb	FT = 20%

LUMBER		BRACING	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 2-2-0 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	WEBS	1 Row at midpt 3-4

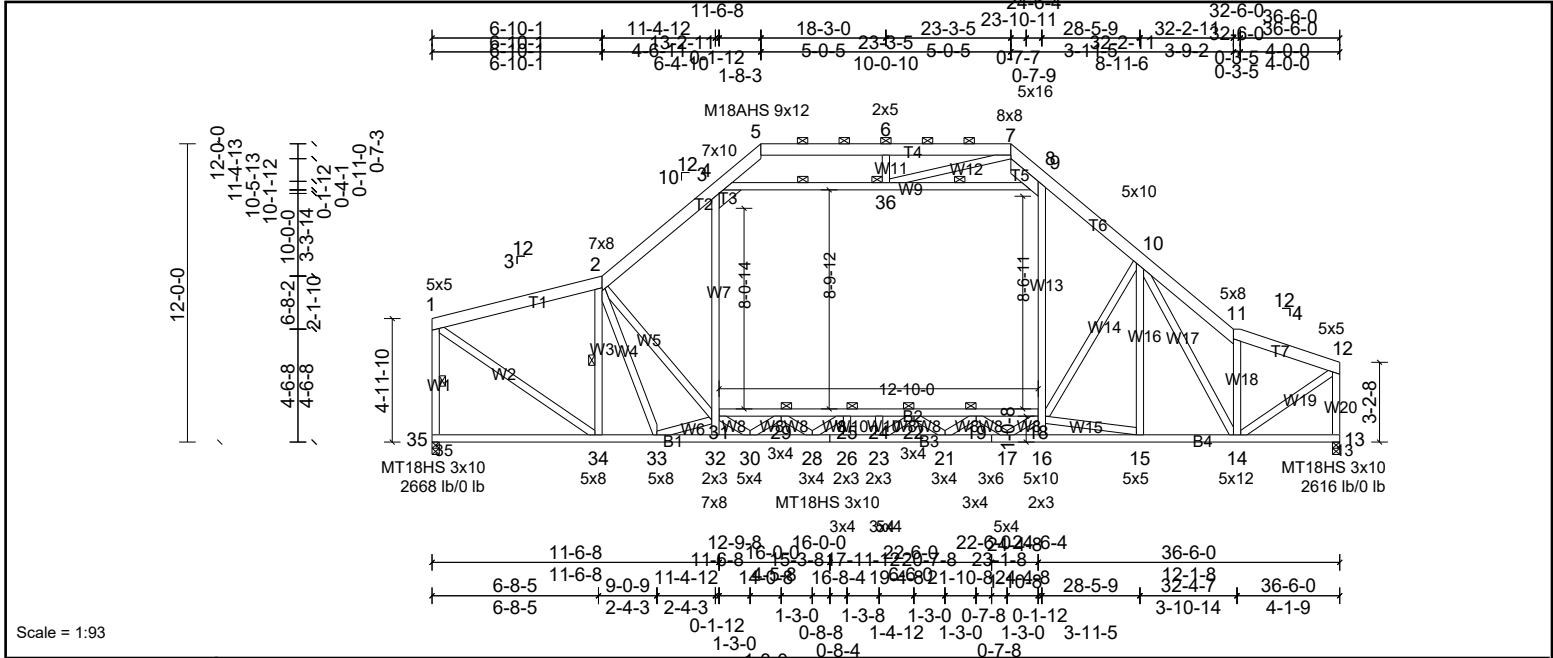
**REACTIONS** (lb/size) 4=603/ Mechanical, (min. 0-1-8), 6=603/0-3-8, (min. 0-1-8)  
 Max Horiz 6=227 (LC 10)  
 Max Uplift 4=-260 (LC 10), 6=-41 (LC 6)

**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 1-7=-359/0, 2-7=-295/9, 1-6=-512/74  
 BOT CHORD 4-5=-110/286  
 WEBS 2-4=-509/194, 1-5=0/312

- NOTES**
- 1) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 18-1-12 to 21-1-12, Interior (1) 21-1-12 to 26-1-4, Exterior (2) 26-1-4 to 29-1-4 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 3) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
  - 4) Refer to girder(s) for truss to truss connections.
  - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 260 lb uplift at joint 4 and 41 lb uplift at joint 6.
  - 6) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

**LOAD CASE(S)** Standard

Job 24061831	Truss D11	Truss Type Truss	Qty 1	Ply 1	Job Reference (optional)
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Scale = 1:93  
Plate Offsets (X, Y): [1:0-2-4,0-2-4], [3:0-5-0,0-4-4], [5:0-7-12,0-3-10], [9:0-7-0,Edge], [11:0-4-0,0-2-12], [12:0-2-4,0-2-8], [18:0-3-4,0-2-8], [31:0-2-0,0-3-4], [33:0-1-12,0-2-8], [34:0-3-8,0-2-8]

Loading	(psf)	Spacing	2-0-0	CSI	DEFLL	in (loc)	l/defl	L/d	PLATES	GRIP		
TCLL (roof)	30.0	Plate Grip DOL	1.15	TC	0.73	Vert(LL)	-0.15	22-24	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.96	Vert(CT)	-0.34	22-24	>999	180	M18AHS	186/179
BCLL	0.0*	Rep Stress Incr	YES	WB	0.95	Horz(CT)	0.08	13	n/a	n/a	MT18HS	244/190
BCDL	15.0	Code	IRC2015/TPI2014	Matrix-MSH		Attic	-0.08	18-31	>999	360	Weight: 362 lb	FT = 20%

LUMBER	BRACING
TOP CHORD 2x6 SP No.2	TOP CHORD Structural wood sheathing directly applied or 3-3-1 oc purlins, except end verticals, and 2-0-0 oc purlins (5-1-1 max.): 5-7.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.
WEBS 2x4 SP No.3 *Except* W7,W13,W9,W19,W2,W15:2x4 SP No.2	WEBS 1 Row at midpt 2-34, 4-36, 8-36, 1-35
REACTIONS (lb/size) 13=2509/0-3-8, (min. 0-3-1), 35=2549/0-3-8, (min. 0-3-2) Max Horiz 35=-317 (LC 6) Max Grav 13=2616 (LC 2), 35=2668 (LC 2)	JOINTS 1 Brace at Jt(s): 36, 19, 29, 22, 25
FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 1-37=-2625/28, 2-37=-2568/39, 2-38=-3493/0, 3-38=-3316/0, 3-4=-2336/134, 4-5=-1202/274, 5-39=-1093/263, 6-39=-1093/263, 6-40=-1093/263, 7-40=-1093/263, 7-8=-879/207, 8-9=-2564/53, 9-41=-3226/7, 10-41=-3357/0, 10-11=-3110/176, 11-42=-2416/52, 12-42=-2488/44, 12-13=-2550/56, 1-35=-2575/50 BOT CHORD 34-35=-267/275, 33-34=0/2535, 32-33=-668/1293, 30-32=-688/1276, 28-30=0/2635, 27-28=0/3396, 26-27=0/3396, 23-26=0/3396, 21-23=0/3249, 20-21=0/2485, 17-20=0/2485, 16-17=-619/1211, 15-16=-595/1226, 14-15=0/2451, 29-31=-210/1613, 25-29=-671/351, 24-25=-1198/0, 22-24=-1198/0, 19-22=-535/280, 18-19=-159/1656 WEBS 2-34=-1561/3, 3-31=0/1518, 9-18=0/1526, 4-36=-1739/0, 8-36=-2009/0, 12-14=0/2829, 1-34=0/3026, 7-36=-195/553, 11-14=-1408/193, 10-15=-514/23, 15-18=0/2501, 10-18=-164/487, 17-18=0/1492, 30-31=0/1427, 17-19=-1487/0, 29-30=-1398/0, 19-21=0/832, 28-29=0/828, 21-22=-717/0, 25-28=-831/37, 22-23=-212/385, 2-33=-951/18, 31-33=-33/2289, 2-31=-95/777	

- NOTES**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 18-1-12 to 21-9-9, Interior (1) 21-9-9 to 27-6-14, Exterior (2) 27-6-14 to 34-10-8, Interior (1) 34-10-8 to 37-7-8, Exterior (2) 37-7-8 to 44-11-2, Interior (1) 44-11-2 to 50-8-7, Exterior (2) 50-8-7 to 54-4-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - Provide adequate drainage to prevent water ponding.
  - All plates are MT20 plates unless otherwise indicated.
  - The Fabrication Tolerance at joint 5 = 12%
  - 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
  - Ceiling dead load (5.0 psf) on member(s). 2-3, 3-4, 8-9, 4-36, 8-36
  - Bottom chord live load (40.0 psf) and additional bottom chord dead load (20.0 psf) applied only to room. 29-31, 25-29, 24-25, 22-24, 19-22, 18-19
  - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
  - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
  - Attic room checked for L/360 deflection.

LOAD CASE(S) Standard

Job 24061831	Truss D12	Truss Type Truss	Qty 1	Ply 1	Job Reference (optional)
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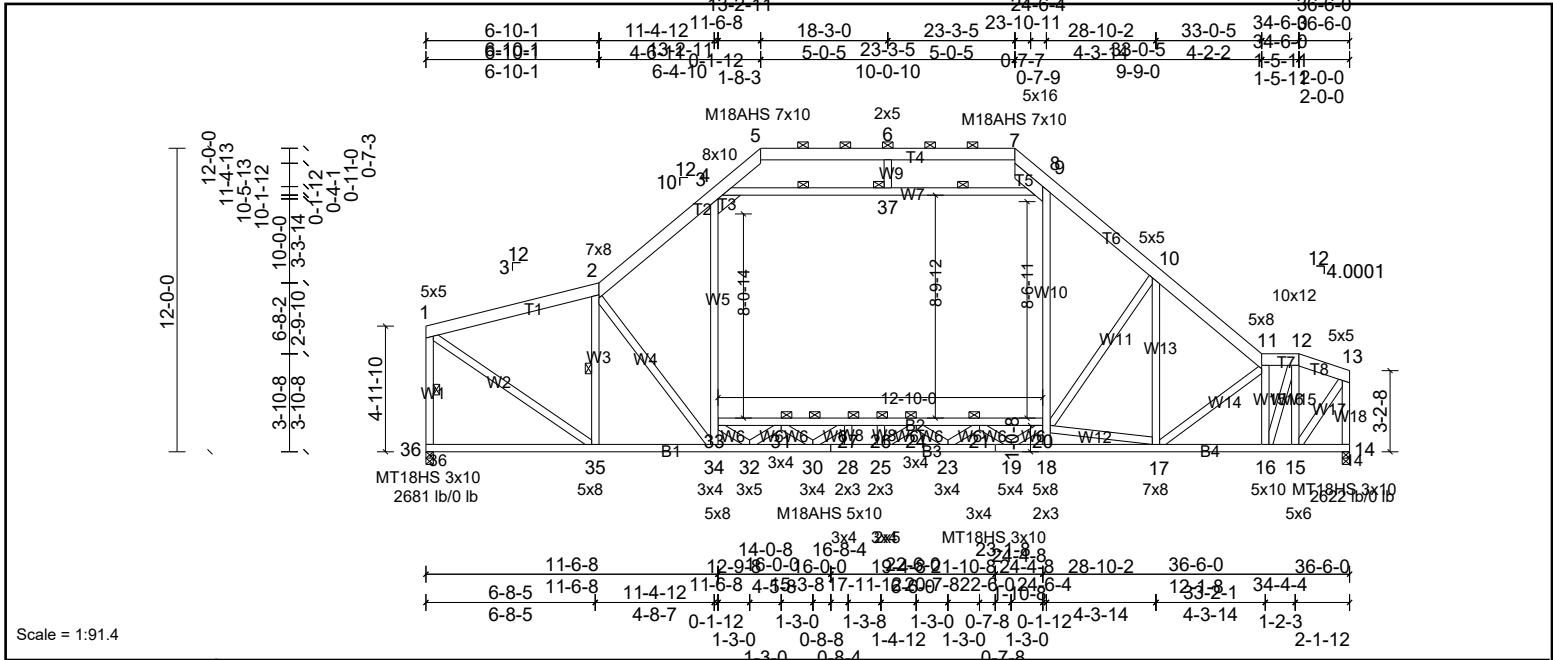


Plate Offsets (X, Y): [1:0-2-4,0-2-4], [5:0-5-12,0-3-10], [7:0-5-8,0-3-6], [9:0-7-0,Edge], [11:0-4-0,0-2-12], [12:0-4-4,0-3-8], [13:0-2-4,0-2-4], [20:0-2-8,0-2-0], [35:0-3-8,0-2-8]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	30.0	Plate Grip DOL	1.15	TC	0.81	Vert(LL)	-0.28	20-21	>999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.97	Vert(CT)	-0.54	21-24	>805	M18AHS	186/179
BCLL	0.0*	Rep Stress Incr	YES	WB	0.97	Horz(CT)	0.12	14	n/a	MT18HS	244/190
BCDL	15.0	Code	IRC2015/TPI2014	Matrix-MSH	Attic		-0.19	20-33	>829	Weight: 345 lb	FT = 20%

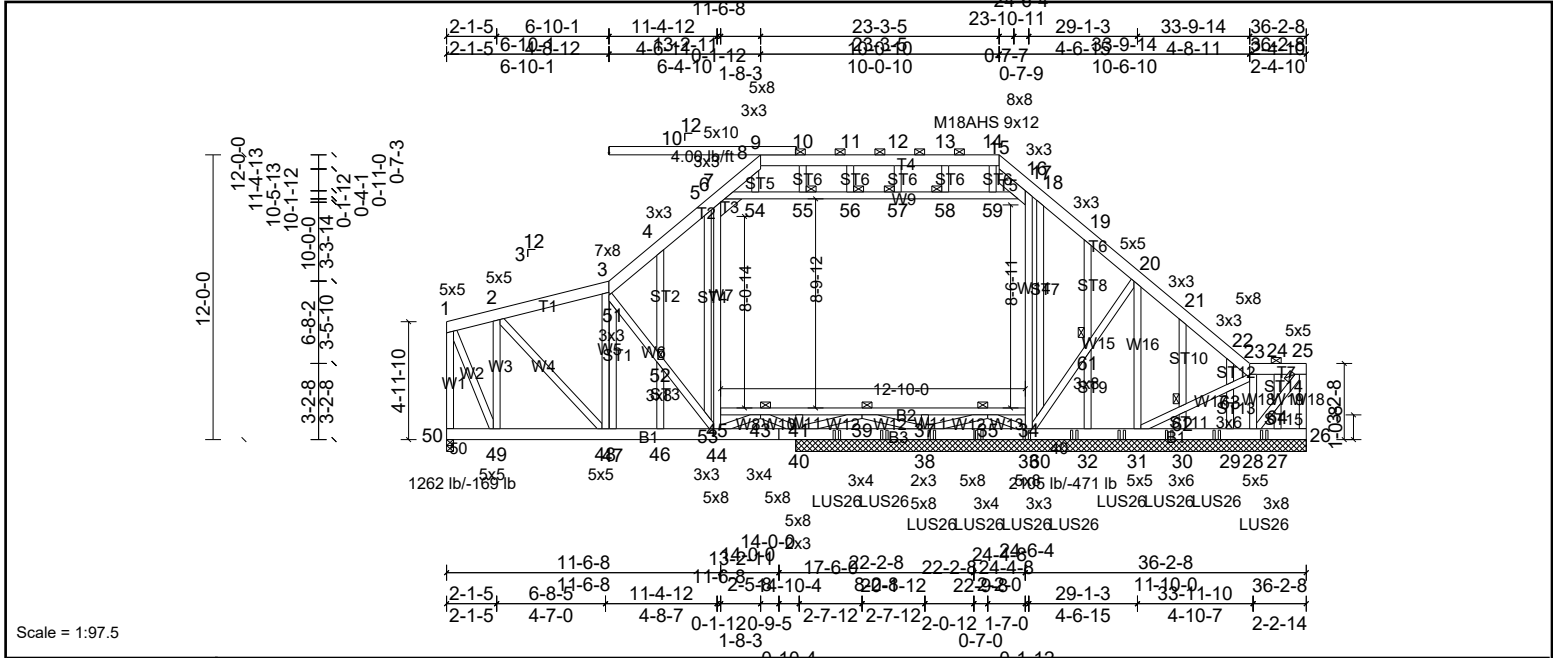
LUMBER	BRACING
TOP CHORD 2x6 SP No.2	TOP CHORD Structural wood sheathing directly applied or 3-8-13 oc purlins, except end verticals, and 2-0-0 oc purlins (4-2-11 max.): 5-7, 11-12.
BOT CHORD 2x4 SP No.1 *Except* B2:2x4 SP No.3	BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.
WEBS 2x4 SP No.3 *Except* W5,W10,W7,W17,W2:2x4 SP No.2	WEBS 1 Row at midpt 2-35, 4-37, 8-37, 1-36
REACTIONS (lb/size) 14=2512/0-3-8, (min. 0-3-2), 36=2556/0-3-8, (min. 0-3-3)	JOINTS 1 Brace at Jt(s): 21, 31, 24, 27, 37
Max Horiz 36=336 (LC 7)	
Max Grav 14=2622 (LC 2), 36=2681 (LC 2)	
FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
TOP CHORD 1-38=-2628/24, 2-38=-2570/34, 2-39=-3257/24, 3-39=-3118/45, 3-4=-2233/162, 4-5=-1158/258, 5-40=-1016/242, 6-40=-1016/242, 6-41=-1016/242, 7-41=-1016/242, 7-8=-1043/257, 8-9=-2400/89, 9-42=-3127/47, 10-42=-3242/18, 10-11=-3248/33, 11-12=-2215/52, 12-13=-1559/57, 13-14=-2607/33, 1-36=-2580/46, 35-36=-298/271, 34-35=0/2537, 32-34=0/2298, 30-32=0/4033, 29-30=0/5077, 28-29=0/5077, 25-28=0/5077, 23-25=0/5055, 22-23=0/4197, 19-22=0/4197, 18-19=-563/2565, 17-18=-537/2553, 16-17=0/2307, 15-16=0/1383, 31-33=-811/0, 27-31=-2395/0, 26-27=-2891/0, 24-26=-2891/0, 21-24=-2496/25, 20-21=-1253/1160, 2-35=-1622/0, 2-34=-379/206, 33-34=-48/526, 3-33=0/1283, 9-20=0/1533, 11-16=-2220/7, 12-16=0/2343, 12-15=-1922/0, 4-37=-1636/0, 8-37=-1640/0, 13-15=0/2519, 1-35=0/3024, 19-20=0/1559, 32-33=0/1180, 19-21=-1521/0, 31-32=-1380/0, 21-23=0/894, 30-31=0/781, 23-24=-795/0, 27-30=-708/33, 24-25=-147/464, 11-17=0/266, 10-17=-417/173, 17-20=-643/1803, 10-20=-517/371	

- NOTES**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 18-1-12 to 21-9-9, Interior (1) 21-9-9 to 27-6-14, Exterior (2) 27-6-14 to 34-10-8, Interior (1) 34-10-8 to 37-7-8, Exterior (2) 37-7-8 to 44-11-2, Interior (1) 44-11-2 to 52-6-0, Exterior (2) 52-6-0 to 54-4-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - Provide adequate drainage to prevent water ponding.
  - All plates are MT20 plates unless otherwise indicated.
  - All plates are 3x4 MT20 unless otherwise indicated.
  - The Fabrication Tolerance at joint 5 = 0%
  - 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
  - Ceiling dead load (5.0 psf) on member(s). 2-3, 3-4, 8-9, 4-37, 8-37
  - Bottom chord live load (40.0 psf) and additional bottom chord dead load (20.0 psf) applied only to room. 31-33, 27-31, 26-27, 24-26, 21-24, 20-21
  - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
  - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
  - Attic room checked for L/360 deflection.

LOAD CASE(S) Standard



Job 24061831	Truss D13L	Truss Type Truss	Qty 1	Ply 2	Job Reference (optional)
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Scale = 1:97.5  
Plate Offsets (X, Y): [9:0-2-2,Edge], [15:0-10-0,0-3-12], [17:0-4-0,0-1-12], [23:0-4-0,0-2-12]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in (loc)	l/defl	L/d	PLATES	GRIP		
TCLL (roof)	30.0	Plate Grip DOL	1.15	TC	0.33	Vert(LL)	-0.03	44-46	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.66	Vert(CT)	-0.05	44-46	>999	180	M18AHS	186/179
BCLL	0.0*	Rep Stress Incr	NO	WB	0.24	Horz(CT)	0.01	26	n/a	n/a		
BCDL	15.0	Code	IRC2015/TPI2014	Matrix-MSH							Weight: 892 lb	FT = 20%

LUMBER	BRACING
TOP CHORD 2x6 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.): 9-15, 23-25.
BOT CHORD 2x6 SP No.2 *Except* B2:2x4 SP No.3	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 40-44,38-40,43-45.
WEBS 2x4 SP No.3 *Except* W7,W14,W9:2x4 SP No.2	JOINTS 1 Brace at Jt(s): 25, 52, 55, 56, 57, 58, 61, 62, 43, 39, 35
OTHERS 2x4 SP No.3	

REACTIONS
All bearings 21-6-0. except 50=0-3-8
(lb) - Max Horiz 50=362 (LC 5)
Max Uplift All uplift 100 (lb) or less at joint(s) 26 except 27=157 (LC 5), 28=133 (LC 5), 29=219 (LC 9), 30=274 (LC 9), 31=216 (LC 8), 32=298 (LC 9), 33=472 (LC 4), 38=315 (LC 4), 40=118 (LC 8), 50=169 (LC 26)
Max Grav All reactions 250 (lb) or less at joint(s) 26 except 27=488 (LC 1), 28=501 (LC 1), 29=529 (LC 1), 30=659 (LC 1), 31=700 (LC 1), 32=613 (LC 21), 33=1021 (LC 21), 38=1586 (LC 23), 40=2105 (LC 22), 50=1263 (LC 1)

FORCES
(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-486/72, 2-3=-1065/141, 3-4=-1043/157, 4-5=-916/219, 5-6=-856/234, 6-7=-934/227, 7-8=-1171/299, 8-9=-902/257, 9-10=-953/271, 10-11=-953/271, 11-12=-953/271, 12-13=-953/271, 13-14=-953/271, 14-15=-953/271, 15-16=-1046/278, 16-17=-670/262, 17-18=-819/290, 18-19=-909/304, 19-20=-951/260, 20-21=-804/199, 21-22=-790/193, 22-23=-656/169, 25-26=-255/75, 1-50=-1206/153
BOT CHORD 49-50=-335/266, 48-49=-316/514, 47-48=-315/993, 46-47=-315/993, 44-46=-315/993, 40-65=-233/268, 65-66=-233/268, 38-66=-233/268, 36-38=-137/845, 33-36=-137/845, 33-67=-196/567, 32-67=-196/567, 32-68=-196/567, 31-68=-196/567, 41-43=-304/1864, 41-72=-304/1864, 39-72=-304/1864, 39-73=-71/414, 37-73=-71/414, 37-74=-71/414, 35-74=-71/414
WEBS 2-49=-1007/220, 2-48=-79/787, 3-51=-674/209, 51-52=-482/174, 52-53=-463/164, 44-53=-525/184, 33-34=-372/136, 17-34=-322/162, 33-60=-125/309, 60-61=-106/272, 20-61=-109/277, 20-31=-430/86, 31-62=-118/380, 62-63=-115/372, 23-63=-136/443, 23-28=-586/156, 28-64=-98/329, 25-64=-98/328, 7-54=-237/435, 54-55=-237/437, 55-56=-237/437, 56-57=-237/437, 57-58=-237/437, 58-59=-237/437, 16-59=-249/426, 1-49=-156/1137, 22-63=-281/63, 40-41=-411/0, 43-44=-253/1073, 40-43=-1196/104, 39-40=-1182/22, 38-39=-293/590, 37-38=-446/0, 35-38=-583/0, 33-35=-287/0

- NOTES**
- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:  
Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc.  
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc.  
Web 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.
  - Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf, BCDL=6.0psf; h=35ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
  - Truss designed for wind loads in the plane of the truss only.
  - Provide adequate drainage to prevent water ponding.
  - All plates are MT20 plates unless otherwise indicated.
  - All plates are 2x5 MT20 unless otherwise indicated.
  - Gable studs spaced at 2-0-0 oc.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
  - Ceiling dead load (5.0 psf) on member(s) 6-7, 16-17, 7-54, 54-55, 55-56, 56-57, 57-58, 58-59, 16-59





Job 24061831	Truss D13L	Truss Type Truss	Qty 1	Ply 2	Job Reference (optional)
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UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Heidi Ouzts

Run: 8.73 S Jan 4 2024 Print: 8.730 S Jan 4 2024 MiTek Industries, Inc. Tue Jul 02 14:31:19

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- 13) Bottom chord live load (40.0 psf) and additional bottom chord dead load (20.0 psf) applied only to room. 43-45, 41-43, 39-41, 37-39, 35-37, 34-35
- 14) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 26 except (jt=lb) 50=169, 33=471, 31=216, 28=133, 32=297, 30=274, 29=218, 27=156, 40=118, 38=314.
- 15) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 16) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 17) Use Simpson Strong-Tie LUS26 (4-10d Girder, 3-10d Truss, Single Ply Girder) or equivalent spaced at 2-0-0 oc max. starting at 34-5-4 from the left end to 52-5-4 to connect truss(es) T25 (1 ply 2x4 SP) to back face of bottom chord.
- 18) Fill all nail holes where hanger is in contact with lumber.
- 19) Attic room checked for L/360 deflection.

**LOAD CASE(S)** Standard

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

Uniform Loads (lb/ft)

Vert: 1-3=-80, 3-6=-84 (F=-4), 6-7=-94 (F=-4), 7-9=-84 (F=-4), 9-10=-84 (F=-4), 10-15=-80, 15-16=-80, 16-17=-90, 17-23=-80, 23-25=-80, 26-50=-30, 34-45=-70, 7-54=-10, 54-55=-10, 55-56=-10, 56-57=-10, 57-58=-10, 58-59=-10, 16-59=-10

Concentrated Loads (lb)

Vert: 33=-398 (B), 38=-398 (B), 36=-398 (B), 65=-398 (B), 66=-398 (B), 67=-398 (B), 68=-398 (B), 69=-398 (B), 70=-398 (B), 71=-398 (B)

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 UFPI plant. 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, erection and bracing available from SBCA and Truss Plate Institute.



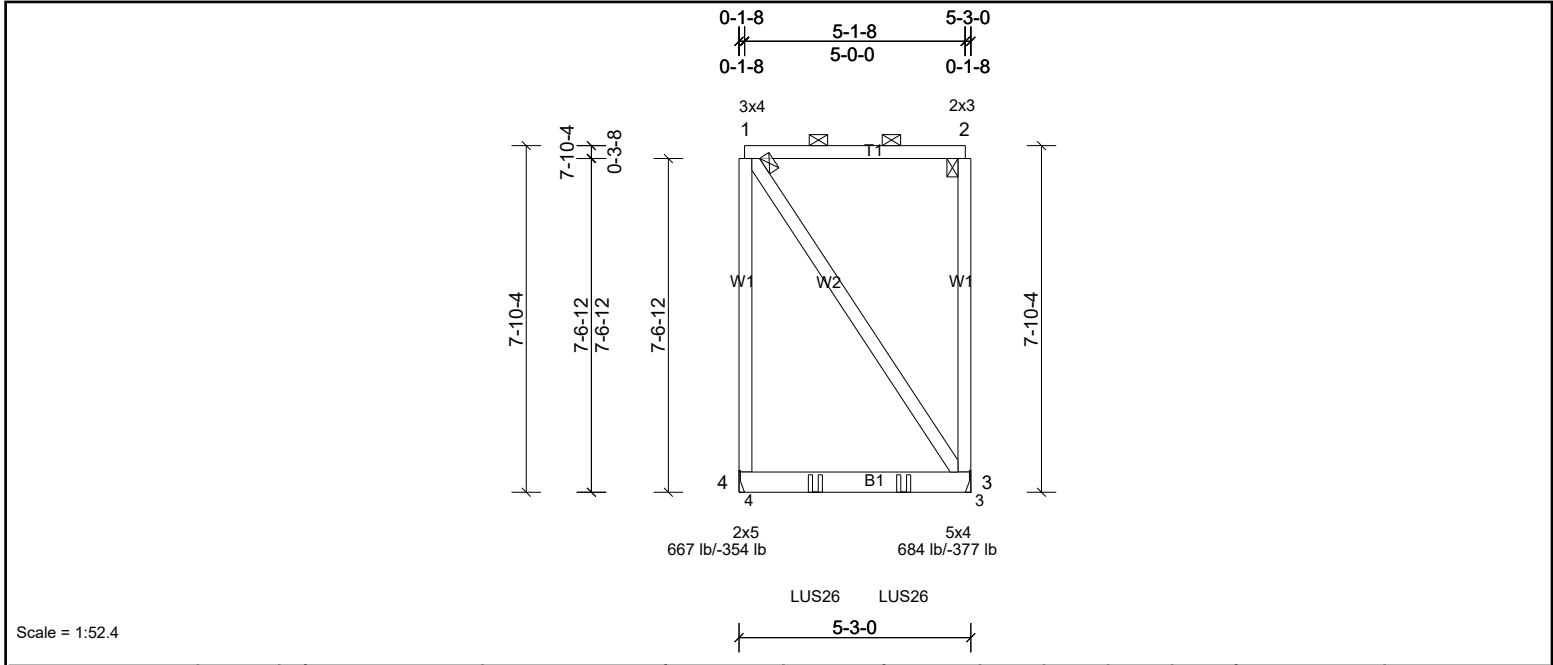
Job 24061831	Truss D14L	Truss Type Truss	Qty 1	Ply 2	Job Reference (optional)
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UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Heidi Ouzts

Run: 8.73 S Jan 4 2024 Print: 8.730 S Jan 4 2024 MiTek Industries, Inc. Tue Jul 02 14:31:20

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Loading	(psf)	Spacing	3-6-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	30.0	Plate Grip DOL	1.15	TC	0.50	Vert(LL)	0.03	3-4	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.26	Vert(CT)	-0.03	3-4	>999	180		
BCLL	0.0*	Rep Stress Incr		WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL	15.0	Code	IRC2015/TPI2014	Matrix-MSH							Weight: 107 lb	FT = 20%

LUMBER		BRACING	
TOP CHORD	2x4 SP No.2	TOP CHORD	2-0-0 oc purlins, except end verticals
BOT CHORD	2x6 SP No.2	BOT CHORD	(Switched from sheeted: Spacing > 2-0-0).
WEBS	2x4 SP No.3		Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS	(lb/size)	3=684/ Mechanical, (min. 0-1-8), 4=667/ Mechanical, (min. 0-1-8)
	Max Uplift	3=-377 (LC 4), 4=-354 (LC 4)

FORCES	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	1-4=-347/138, 2-3=-347/138

- 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.  
Web connected as follows: 2x4 - 1 row at 0-9-0 oc.
  - All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section.  
Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
  - Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp C; Enclosed;  
MWFERS (envelope) exterior zone; cantilever 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 15.0psf.
  - Refer to girder(s) for truss to truss connections.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 354 lb uplift at joint 4 and 377 lb uplift at joint 3.
  - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
  - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
  - Use Simpson Strong-Tie LUS26 (4-10d Girder, 3-10d Truss, Single Ply Girder) or equivalent spaced at 2-0-0 oc max. starting at 1-8-12 from the left end to 3-8-12 to connect truss(es) D3 (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): Lumber Increase=1.15, Plate Increase=1.15	
Uniform Loads (lb/ft)	
	Vert: 1-2=-140, 3-4=-53
Concentrated Loads (lb)	
	Vert: 5=-198 (B), 7=-198 (B)

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 UFPI plant. 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, erection and bracing available from SBCA and Truss Plate Institute.



Job 24061831	Truss E1G	Truss Type Truss	Qty 1	Ply 1	Job Reference (optional)
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UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Heidi Ouzts

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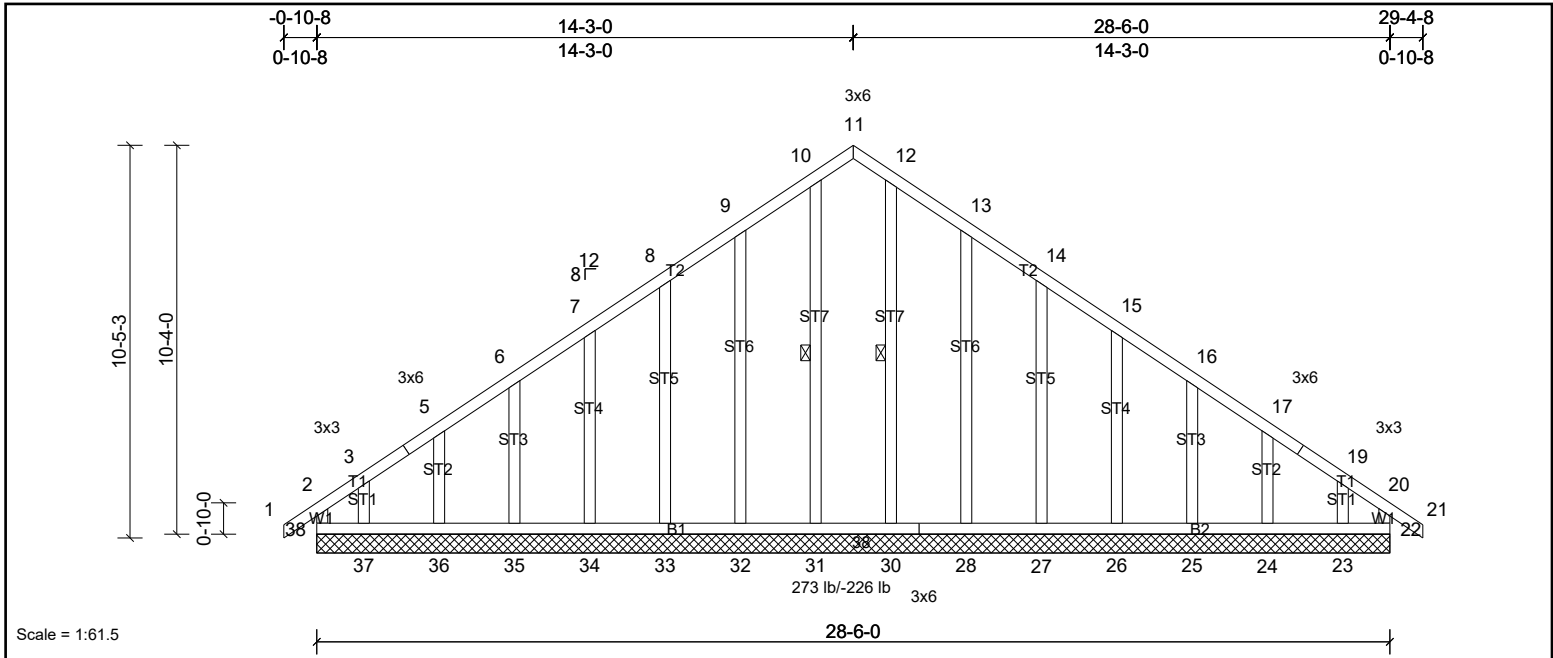


Plate Offsets (X, Y): [11:0-3-0,Edge]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	30.0	Plate Grip DOL	1.15	TC	0.23	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.13	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.21	Horz(CT)	0.01	22	n/a	n/a		
BCDL	15.0	Code	IRC2015/TPI2014	Matrix-MR							Weight: 205 lb	FT = 20%

LUMBER		BRACING	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except 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	WEBS	1 Row at midpt
OTHERS	2x4 SP No.3		10-31, 12-30

**REACTIONS** All bearings 28-6-0.  
 (lb) - Max Horiz 38=308 (LC 9)  
 Max Uplift All uplift 100 (lb) or less at joint(s) 22, 24, 25, 26, 27, 33, 34, 35, 36 except 23=-207 (LC 11), 28=-114 (LC 11), 32=-110 (LC 10), 37=-227 (LC 10), 38=-149 (LC 8)  
 Max Grav All reactions 250 (lb) or less at joint(s) 22, 23, 24, 25, 26, 27, 28, 30, 31, 32, 33, 34, 35, 36, 37 except 38=274 (LC 19)

**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-312/222, 19-20=-274/181

- NOTES**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) -0-10-8 to 2-1-8, Exterior (2) 2-1-8 to 11-3-0, Corner (3) 11-3-0 to 17-3-0, Exterior (2) 17-3-0 to 26-4-8, Corner (3) 26-4-8 to 29-4-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - Truss designed for wind loads in the plane of the truss only.
  - All plates are 2x3 MT20 unless otherwise indicated.
  - Gable requires continuous bottom chord bearing.
  - Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
  - Gable studs spaced at 2-0-0 oc.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 22, 33, 34, 35, 36, 27, 26, 25, 24 except (jt=lb) 38=149, 32=109, 37=226, 28=114, 23=207.
  - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

**LOAD CASE(S)** Standard



Job 24061831	Truss E2	Truss Type Truss	Qty 2	Ply 1	Job Reference (optional)
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UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Heidi Ouzts

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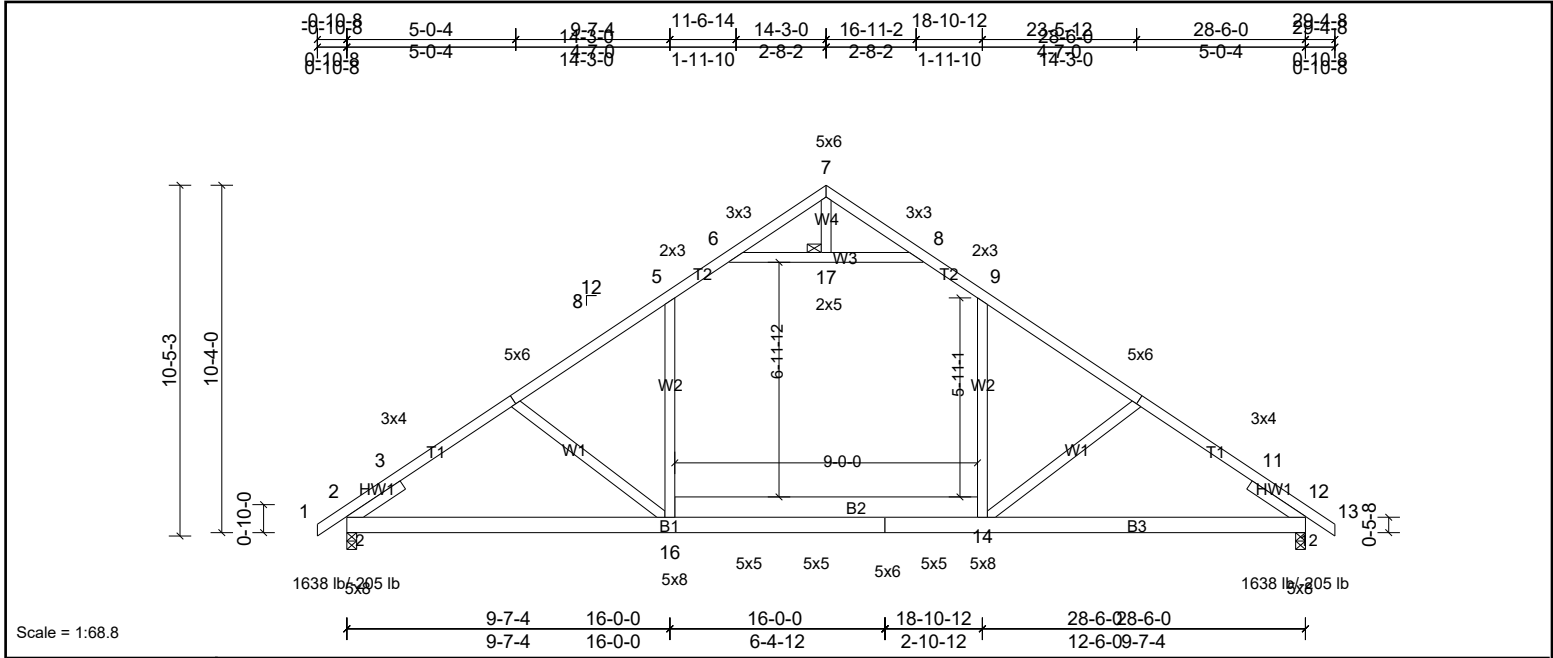


Plate Offsets (X, Y):	[2:0-4-5,0-0-7], [4:0-3-0,0-3-4], [10:0-3-0,0-3-4], [12:0-4-5,0-0-7], [14:0-1-8,0-1-12], [16:0-1-8,0-1-12]
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Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	30.0	Plate Grip DOL	1.15	TC	0.79	Vert(LL)	-0.45	16-20	>760	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.90	Vert(CT)	-0.63	16-20	>543	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.34	Horz(CT)	0.05	12	n/a	n/a		
BCDL	15.0	Code	IRC2015/TPI2014	Matrix-MSH		Attic	-0.31	14-16	>360	360	Weight: 202 lb	FT = 20%

LUMBER	BRACING
TOP CHORD	2x4 SP SS *Except* T1:2x4 SP No.2
BOT CHORD	2x6 SP No.2 *Except* B2:2x8 SP No.2
WEBS	2x4 SP No.2 *Except* W1,W4:2x4 SP No.3
SLIDER	Left 2x4 SP No.3 -- 1-11-0, Right 2x4 SP No.3 -- 1-11-0
REACTIONS	
	(lb/size) 2=1638/0-3-8, (min. 0-1-15), 12=1638/0-3-8, (min. 0-1-15)
	Max Horiz 2=-283 (LC 8)
	Max Uplift 2=-205 (LC 10), 12=-205 (LC 11)
FORCES	
	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-3=-1473/156, 3-26=-2142/276, 4-26=-2004/300, 4-5=-1894/280, 5-6=-1367/299, 8-9=-1367/299, 9-10=-1893/280, 10-27=-2004/300, 11-27=-2142/276, 11-12=-1343/157
BOT CHORD	2-16=-301/1900, 15-16=-90/1505, 14-15=-90/1505, 12-14=-143/1734
WEBS	9-14=-12/646, 10-14=-506/270, 5-16=-12/646, 4-16=-505/270, 6-17=-1673/332, 8-17=-1673/332

- NOTES**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) -0-10-8 to 2-1-8, Interior (1) 2-1-8 to 11-3-0, Exterior (2) 11-3-0 to 17-2-8, Interior (1) 17-2-8 to 26-4-8, Exterior (2) 26-4-8 to 29-4-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
  - Bottom chord live load (20.0 psf) and additional bottom chord dead load (0.0 psf) applied only to room. 14-16
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 205 lb uplift at joint 2 and 205 lb uplift at joint 12.
  - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
  - ATTIC SPACE SHOWN IS DESIGNED AS UNINHABITABLE.

**LOAD CASE(S)** Standard



Job 24061831	Truss E3	Truss Type Truss	Qty 7	Ply 1	Job Reference (optional)
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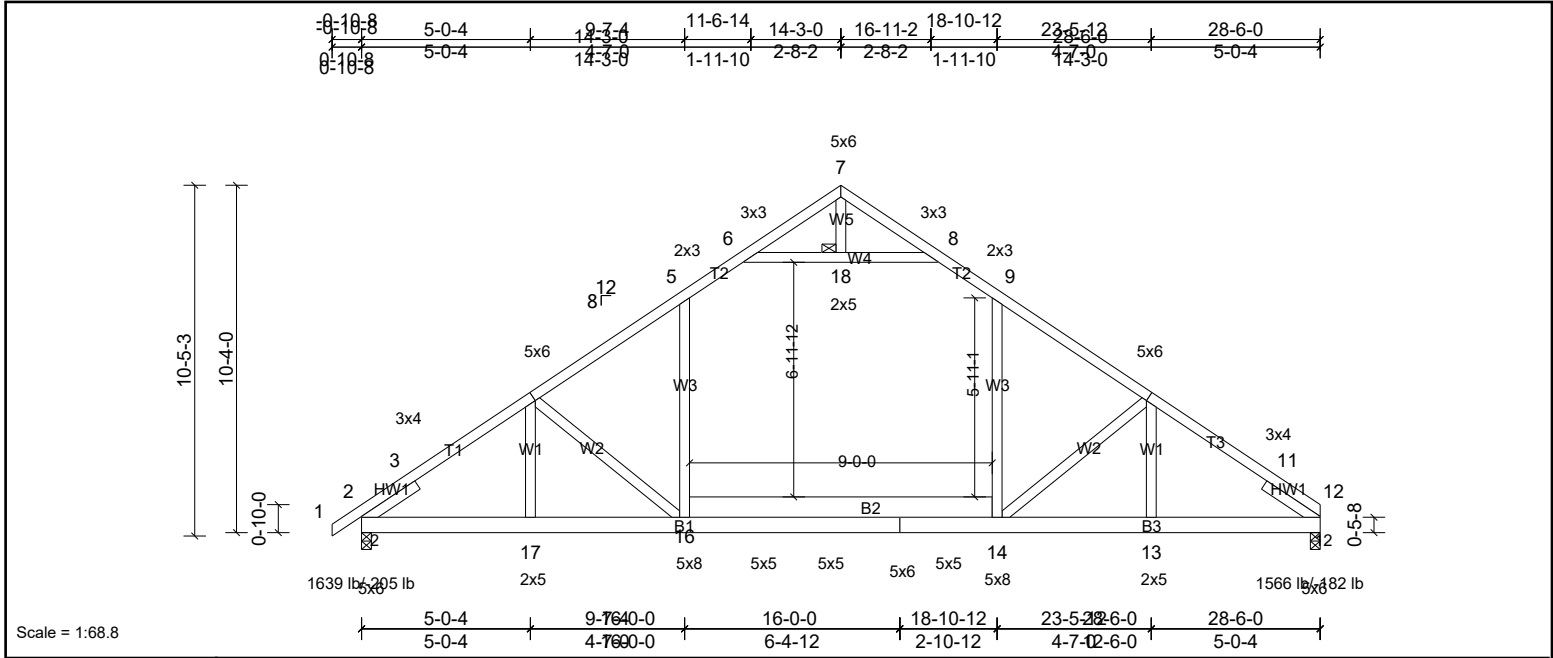


Plate Offsets (X, Y): [4:0-3-0,0-3-0], [10:0-3-0,0-3-0], [12:Edge,0-2-13], [14:0-1-8,0-2-0], [16:0-1-8,0-1-12]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	30.0	Plate Grip DOL	1.15	TC	0.78	Vert(LL)	-0.29	13-14	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.99	Vert(CT)	-0.47	13-14	>728	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.43	Horz(CT)	0.03	12	n/a	n/a		
BCDL	15.0	Code	IRC2015/TPI2014	Matrix-MSH		Attic	-0.19	14-16	>578	360	Weight: 210 lb	FT = 20%

LUMBER	BRACING
TOP CHORD 2x4 SP No.2 *Except* T2:2x4 SP SS	TOP CHORD Structural wood sheathing directly applied or 3-6-3 oc purlins.
BOT CHORD 2x6 SP No.2 *Except* B2:2x8 SP No.2	BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.
WEBS 2x4 SP No.3 *Except* W3,W4:2x4 SP No.2	JOINTS 1 Brace at Jt(s): 18
SLIDER Left 2x4 SP No.3 -- 1-11-0, Right 2x4 SP No.3 -- 1-11-0	This truss requires both edges of the bottom chord be sheathed in the room area.
<b>REACTIONS</b> (lb/size) 2=1639/0-3-8, (min. 0-1-15), 12=1566/0-3-8, (min. 0-1-14) Max Horiz 2=277 (LC 7) Max Uplift 2=-205 (LC 10), 12=-182 (LC 11)	
<b>FORCES</b> (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-1308/43, 3-27=-2162/276, 4-27=-2045/296, 4-5=-1900/297, 5-6=-1360/306, 8-9=-1360/306, 9-10=-1900/297, 10-28=-2054/299, 11-28=-2171/283, 11-12=-1166/44 BOT CHORD 2-17=-334/1934, 16-17=-333/1931, 15-16=-107/1494, 14-15=-107/1494, 13-14=-157/1748, 12-13=-157/1748 WEBS 9-14=-46/681, 5-16=-46/680, 6-18=-1665/341, 8-18=-1665/341, 4-17=-136/262, 4-16=-640/296, 10-13=-133/270, 10-14=-649/299	

- NOTES**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) -0-10-8 to 2-1-8, Interior (1) 2-1-8 to 11-3-0, Exterior (2) 11-3-0 to 17-2-8, Interior (1) 17-2-8 to 25-6-0, Exterior (2) 25-6-0 to 28-6-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
  - Bottom chord live load (20.0 psf) and additional bottom chord dead load (0.0 psf) applied only to room. 14-16
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 182 lb uplift at joint 12 and 205 lb uplift at joint 2.
  - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
  - ATTIC SPACE SHOWN IS DESIGNED AS UNINHABITABLE.

**LOAD CASE(S)** Standard

Job 24061831	Truss E4	Truss Type Truss	Qty 2	Ply 1	Job Reference (optional)
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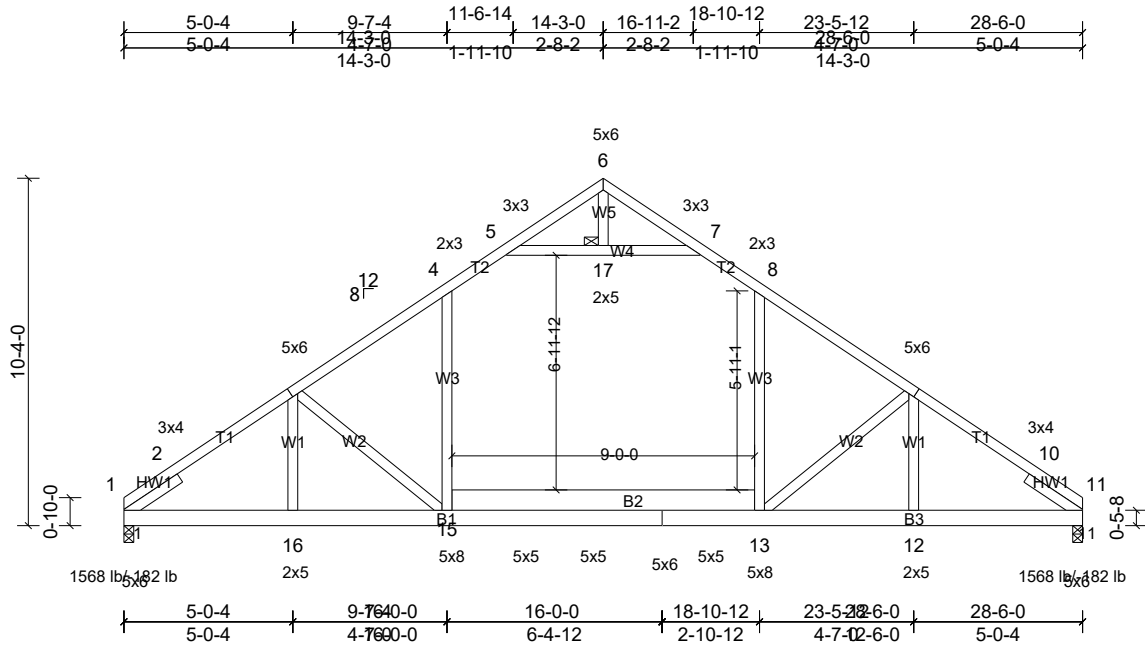


Plate Offsets (X, Y):	[3:0-3-0,0-3-0], [9:0-3-0,0-3-0], [11:Edge,0-2-13], [13:0-1-8,0-1-12], [15:0-1-8,0-1-12]
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Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	30.0	Plate Grip DOL	1.15	TC	0.79	Vert(LL)	-0.30	15-16	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	1.00	Vert(CT)	-0.48	15-16	>719	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.44	Horz(CT)	0.03	11	n/a	n/a		
BCDL	15.0	Code	IRC2015/TPI2014	Matrix-MSH		Attic	-0.19	13-15	>574	360	Weight: 209 lb	FT = 20%

LUMBER	BRACING
TOP CHORD 2x4 SP No.2 *Except* T2:2x4 SP SS	TOP CHORD Structural wood sheathing directly applied or 3-6-3 oc purlins.
BOT CHORD 2x6 SP No.2 *Except* B2:2x8 SP No.2	BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.
WEBS 2x4 SP No.3 *Except* W3,W4:2x4 SP No.2	JOINTS 1 Brace at Jt(s): 17
SLIDER Left 2x4 SP No.3 -- 1-11-0, Right 2x4 SP No.3 -- 1-11-0	This truss requires both edges of the bottom chord be sheathed in the room area.
<b>REACTIONS</b> (lb/size) 1=1568/0-3-8, (min. 0-1-14), 11=1568/0-3-8, (min. 0-1-14) Max Horiz 1=-266 (LC 8) Max Uplift 1=-182 (LC 10), 11=-182 (LC 11)	
<b>FORCES</b> (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
TOP CHORD 1-2=-1322/54, 2-26=-2175/283, 3-26=-2063/299, 3-4=-1904/296, 4-5=-1362/308, 7-8=-1362/308, 8-9=-1904/296, 9-27=-2064/300, 10-27=-2176/284, 10-11=-1178/54	
BOT CHORD 1-16=-340/1949, 15-16=-342/1951, 14-15=-108/1497, 13-14=-108/1497, 12-13=-163/1757, 11-12=-162/1756	
WEBS 8-13=-44/674, 4-15=-44/674, 5-17=-1674/347, 7-17=-1674/347, 3-16=-135/267, 9-12=-135/267, 3-15=-655/300, 9-13=-655/301	

- NOTES**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-0-0 to 3-0-0, Interior (1) 3-0-0 to 11-3-0, Exterior (2) 11-3-0 to 17-2-8, Interior (1) 17-2-8 to 25-6-0, Exterior (2) 25-6-0 to 28-6-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
  - Bottom chord live load (20.0 psf) and additional bottom chord dead load (0.0 psf) applied only to room. 13-15
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 182 lb uplift at joint 1 and 182 lb uplift at joint 11.
  - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
  - ATTIC SPACE SHOWN IS DESIGNED AS UNINHABITABLE.

**LOAD CASE(S)** Standard

Job 24061831	Truss E5L	Truss Type Truss	Qty 1	Ply 3	Job Reference (optional)
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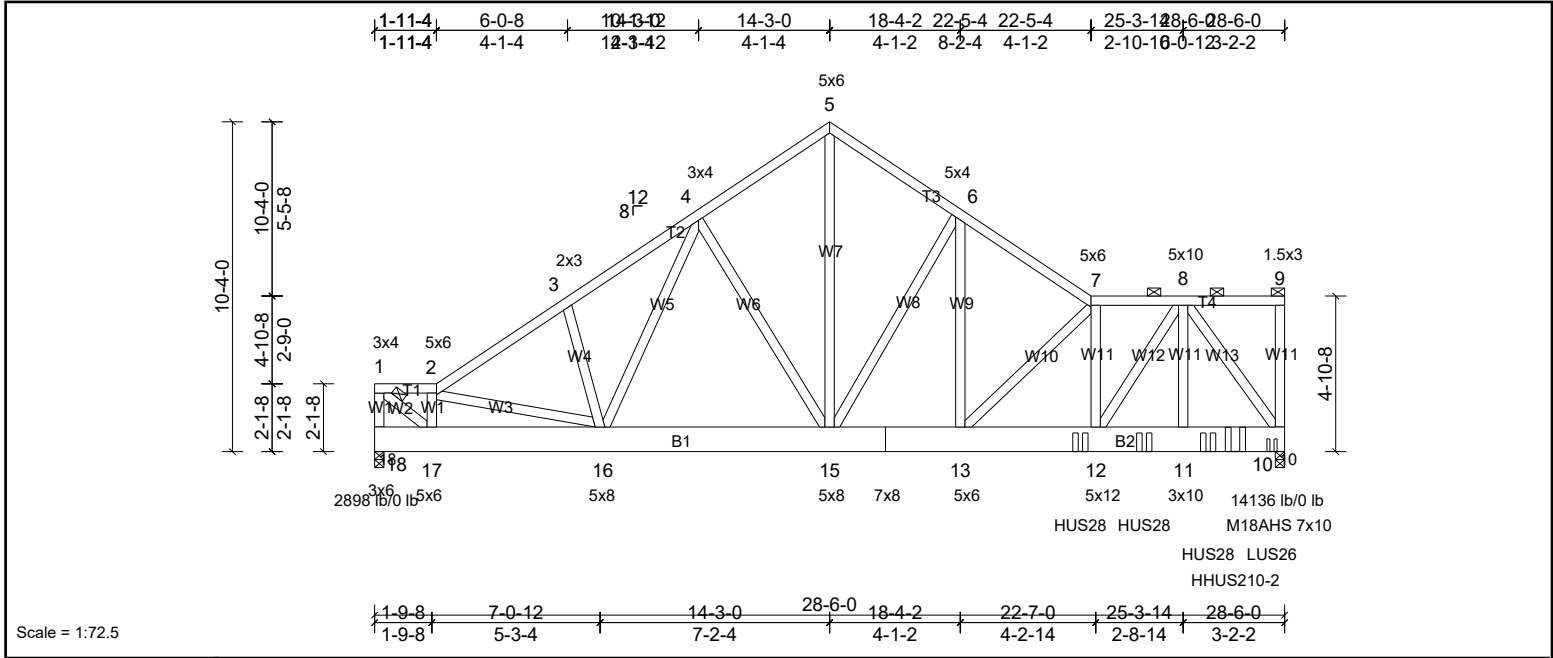


Plate Offsets (X, Y):	[11:0-7-12,0-1-8]
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Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	30.0	Plate Grip DOL	1.15	TC	0.29	Vert(LL)	-0.08	12-13	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.36	Vert(CT)	-0.15	12-13	>999	180	M18AHS	186/179
BCLL	0.0*	Rep Stress Incr	NO	WB	0.83	Horz(CT)	0.02	10	n/a	n/a		
BCDL	15.0	Code	IRC2015/TPI2014	Matrix-MSH							Weight: 827 lb	FT = 20%

LUMBER	BRACING
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 1-2, 7-9.
BOT CHORD 2x10 SP 2400F 2.0E	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3	

<b>REACTIONS</b>	(lb/size)	10=12757/0-3-8, (req. 0-3-14), 18=2898/0-3-8, (min. 0-1-8)
	Max Horiz	18=335 (LC 5)
	Max Grav	10=14136 (LC 2), 18=2898 (LC 1)

<b>FORCES</b>	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	1-18=-2425/0, 1-2=-2501/0, 2-3=-4243/0, 3-4=-4200/0, 4-5=-3928/0, 5-6=-3931/0, 6-7=-5981/0, 7-8=-8750/0
BOT CHORD	17-18=-302/299, 16-17=0/2863, 16-19=0/3408, 19-20=0/3408, 15-20=0/3408, 14-15=0/4956, 13-14=0/4956, 13-21=0/8732, 12-21=0/8732, 12-22=0/6576, 11-22=0/6576, 11-23=0/6576, 23-24=0/6576, 10-24=0/6576
WEBS	1-17=0/3363, 2-17=-2730/0, 2-16=0/810, 3-16=-341/192, 4-16=-240/254, 4-15=-422/325, 5-15=0/4011, 6-15=-3498/0, 6-13=0/3860, 7-13=-5522/0, 7-12=0/799, 8-12=0/4118, 8-11=0/5740, 8-10=-11383/0

- NOTES**
- 3-ply truss to be connected together as follows:  
Top chords connected with 10d (0.131"x3") nails as follows: 2x4 - 1 row at 0-9-0 oc.  
Bottom chords connected with Simpson SDS 1/4 x 4-1/2 screws as follows: 2x10 - 3 rows staggered at 0-5-0 oc.  
Web chords connected with 10d (0.131"x3") nails 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.
  - Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 15.0psf.
  - WARNING: Required bearing size at joint(s) 10 greater than input bearing size.
  - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
  - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
  - Use Simpson Strong-Tie HUS28 (22-16d Girder, 4-16d Truss, Single Ply Girder) or equivalent spaced at 2-0-0 oc max. starting at 22-1-4 from the left end to 26-1-4 to connect truss(es) D8 (1 ply 2x4 SP) to front face of bottom chord.
  - Use Simpson Strong-Tie HHUS210-2 (30-16d Girder, 10-16d Truss) or equivalent at 26-11-8 from the left end to connect truss(es) D9L (2 ply 2x10 SP) to front face of bottom chord.
  - Use Simpson Strong-Tie LUS26 (4-10d Girder, 3-10d Truss, Single Ply Girder) or equivalent at 28-1-4 from the left end to connect truss(es) D10 (1 ply 2x4 SP) to front face of bottom chord.
  - Fill all nail holes where hanger is in contact with lumber.
- LOAD CASE(S)** Standard
- Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15

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 UFPI plant. 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, erection and bracing available from SBCA and Truss Plate Institute.



Job 24061831	Truss E5L	Truss Type Truss	Qty 1	Ply 3	Job Reference (optional)
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UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Heidi Ouzts

Run: 8.73 S Jan 4 2024 Print: 8.730 S Jan 4 2024 MiTek Industries, Inc. Tue Jul 02 14:31:23

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Uniform Loads (lb/ft)

Vert: 1-2=-80, 2-5=-80, 5-7=-80, 7-9=-80, 10-18=-30

Concentrated Loads (lb)

Vert: 10=-584 (F), 21=-2485 (F), 22=-2485 (F), 23=-2485 (F), 24=-4514 (F)

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 UFPI plant. 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, erection and bracing available from SBCA and Truss Plate Institute.





Job 24061831	Truss G1	Truss Type Truss	Qty 6	Ply 1	Job Reference (optional)
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UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Heidi Ouzts

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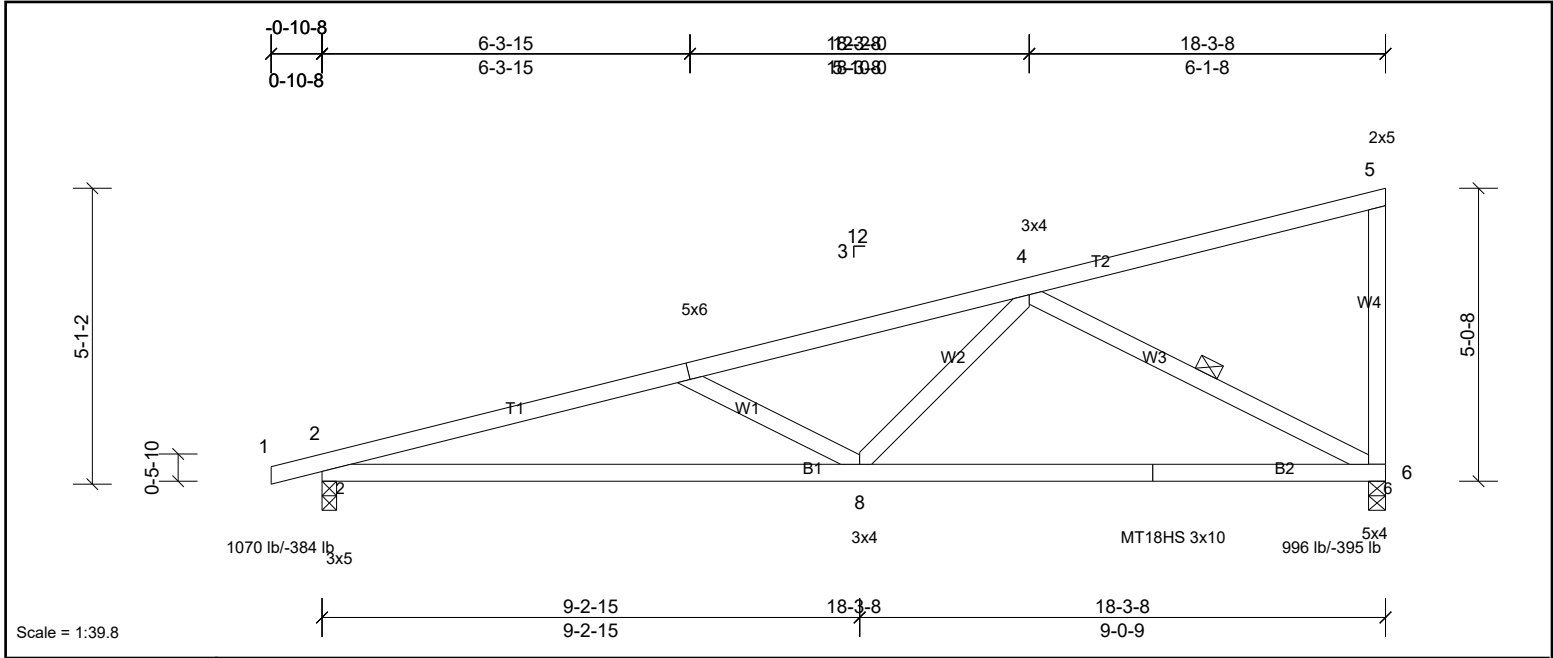


Plate Offsets (X, Y): [2:Edge,0-1-0], [3:0-3-0,0-3-0], [6:0-2-4,0-2-4]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	30.0	Plate Grip DOL	1.15	TC	0.59	Vert(LL)	0.30	6-8	>719	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.80	Vert(CT)	-0.39	6-8	>560	180	MT18HS	244/190
BCLL	0.0*	Rep Stress Incr	YES	WB	0.43	Horz(CT)	0.05	6	n/a	n/a		
BCDL	15.0	Code	IRC2015/TPI2014	Matrix-MSH							Weight: 84 lb	FT = 20%

LUMBER		BRACING	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 3-1-1 oc purlins, except end verticals.
BOT CHORD	2x4 SP No.1 *Except* B2:2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied or 4-9-14 oc bracing.
WEBS	2x4 SP No.3	WEBS	1 Row at midpt 4-6

REACTIONS	(lb/size)	2=1070/0-3-0, (min. 0-1-8), 6=996/0-3-8, (min. 0-1-8)
Max Horiz	2=211 (LC 6)	
Max Uplift	2=-384 (LC 6), 6=-395 (LC 6)	

FORCES	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-12=-2536/1357, 3-12=-2482/1369, 3-4=-1971/1225
BOT CHORD	2-8=-1462/2408, 7-8=-772/1298, 6-7=-772/1298
WEBS	3-8=-637/278, 4-8=-736/836, 4-6=-1435/843

- NOTES**
- 1) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) -0-10-8 to 2-1-8, Interior (1) 2-1-8 to 15-1-12, Exterior (2) 15-1-12 to 18-1-12 zone; cantilever left and right exposed; end vertical left exposed; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 2) All plates are MT20 plates unless otherwise indicated.
  - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 4) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 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 384 lb uplift at joint 2 and 395 lb uplift at joint 6.
  - 6) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

**LOAD CASE(S)** Standard



Job 24061831	Truss G2	Truss Type Truss	Qty 4	Ply 1	Job Reference (optional)
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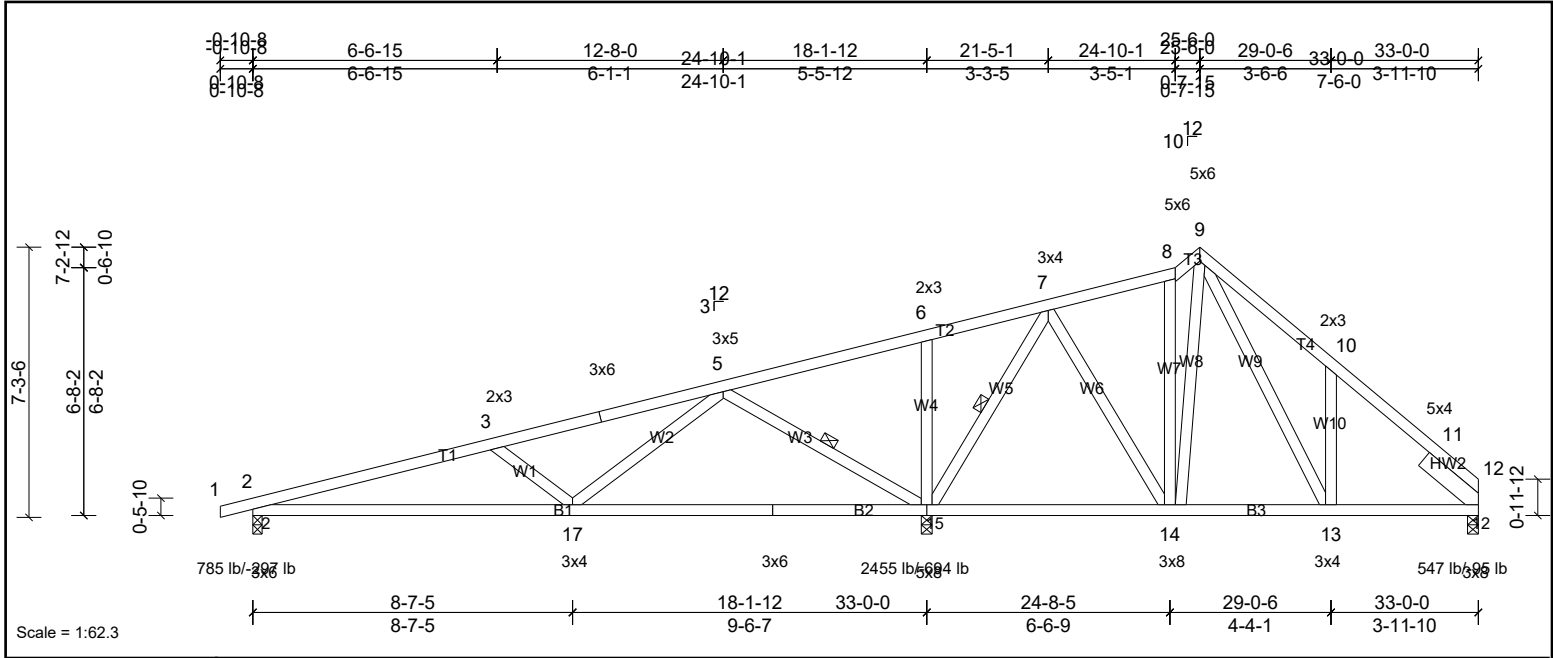


Plate Offsets (X, Y): [2:0-0-1,Edge], [9:0-2-12,0-1-8], [12:0-5-15,0-0-1], [15:0-4-0,0-3-0]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	30.0	Plate Grip DOL	1.15	TC	0.71	Vert(LL)	0.26	15-17	>831	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.92	Vert(CT)	-0.36	15-17	>603	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.45	Horz(CT)	0.02	15	n/a	n/a		
BCDL	15.0	Code	IRC2015/TPI2014	Matrix-MSH							Weight: 190 lb	FT = 20%

LUMBER	BRACING
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 4-1-9 oc purlins.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt 5-15, 7-15
SLIDER Right 2x6 SP No.2 -- 1-11-0	

REACTIONS	(lb/size)	2=781/0-3-0, (min. 0-1-8), 12=464/0-3-8, (min. 0-1-8), 15=2455/0-3-8, (min. 0-2-14)
Max Horiz	2=213 (LC 7)	
Max Uplift	2=-297 (LC 6), 12=-95 (LC 11), 15=-694 (LC 6)	
Max Grav	2=785 (LC 21), 12=547 (LC 22), 15=2455 (LC 1)	

FORCES	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-25=-1523/763, 3-25=-1473/775, 3-4=-1027/649, 4-5=-965/666, 5-6=-379/1118, 6-7=-336/1092, 9-10=-567/313, 10-26=-398/127, 11-26=-465/112
BOT CHORD	2-17=-699/1429, 14-15=-414/345, 12-13=-14/357
WEBS	9-14=-322/230, 9-13=-279/473, 10-13=-311/248, 3-17=-637/273, 5-17=-686/1092, 5-15=-1306/606, 6-15=-367/156, 7-15=-1334/331, 7-14=-172/742

- NOTES**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) -0-10-8 to 2-5-2, Interior (1) 2-5-2 to 24-10-1, Exterior (2) 24-10-1 to 29-0-6, Interior (1) 29-0-6 to 29-8-6, Exterior (2) 29-8-6 to 33-0-0 zone; cantilever left and right exposed; end vertical left and right exposed; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 95 lb uplift at joint 12, 297 lb uplift at joint 2 and 694 lb uplift at joint 15.
  - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

**LOAD CASE(S)** Standard

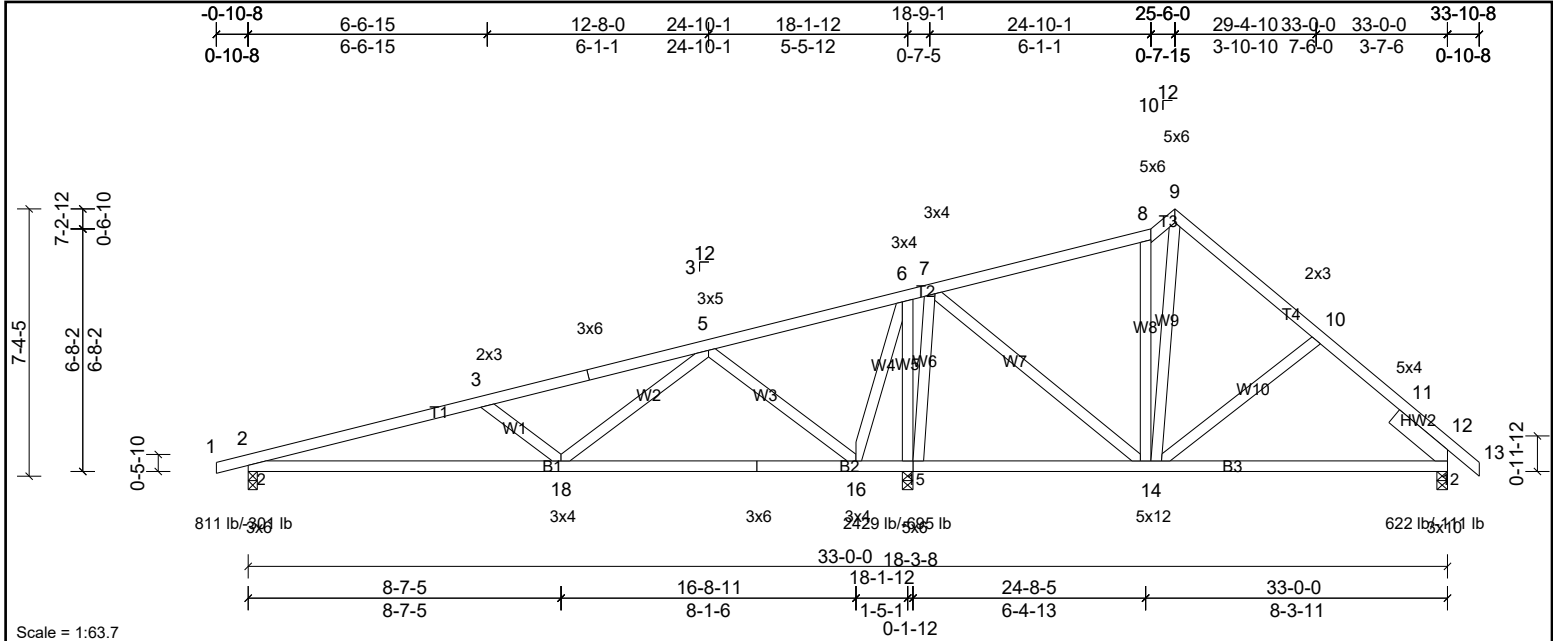
Job 24061831	Truss G3	Truss Type Truss	Qty 1	Ply 1	Job Reference (optional)
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UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Heidi Ouzts

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Scale = 1:63.7

Plate Offsets (X, Y): [2:0-0-1,Edge], [12:0-7-3,Edge], [15:0-3-0,0-3-0]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	30.0	Plate Grip DOL	1.15	TC	0.81	Vert(LL)	0.17	18-21	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.84	Vert(CT)	-0.26	18-21	>847	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.70	Horz(CT)	0.02	15	n/a	n/a		
BCDL	15.0	Code	IRC2015/TPI2014	Matrix-MSH							Weight: 188 lb	FT = 20%

LUMBER		BRACING	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 4-0-1 oc purlins.
BOT CHORD	2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied or 5-6-9 oc bracing.
WEBS	2x4 SP No.3		
SLIDER	Right 2x6 SP No.2 -- 1-11-0		
<b>REACTIONS</b>	(lb/size)	2=802/0-3-0, (min. 0-1-8), 12=538/0-3-8, (min. 0-1-8), 15=2429/0-3-8, (min. 0-2-14)	
	Max Horiz	2=214 (LC 9)	
	Max Uplift	2=-301 (LC 6), 12=-111 (LC 11), 15=-695 (LC 6)	
	Max Grav	2=811 (LC 21), 12=622 (LC 22), 15=2429 (LC 1)	
<b>FORCES</b>	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.		
TOP CHORD		2-26=-1609/784, 3-26=-1560/796, 3-4=-1113/667, 4-5=-1051/683, 5-6=-238/783, 6-7=-368/1072, 7-8=-253/148, 8-9=-270/174, 10-27=-308/102, 10-28=-381/140, 11-28=-460/127, 11-12=-616/0	
BOT CHORD		2-18=-680/1513, 15-16=-972/543, 14-15=-859/518, 12-14=-3/353	
WEBS		8-14=-364/161, 3-18=-639/275, 5-18=-638/1065, 5-16=-1135/509, 6-16=-582/908, 6-15=-880/518, 7-15=-1450/418, 7-14=-304/1174, 10-14=-279/185	

- NOTES**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) -0-10-8 to 2-5-2, Interior (1) 2-5-2 to 24-10-1, Exterior (2) 24-10-1 to 28-9-10, Interior (1) 28-9-10 to 30-6-14, Exterior (2) 30-6-14 to 33-10-8 zone; cantilever left and right exposed; end vertical left and right exposed; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 301 lb uplift at joint 2, 695 lb uplift at joint 15 and 111 lb uplift at joint 12.
  - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

**LOAD CASE(S)** Standard

Job 24061831	Truss G4G	Truss Type Truss	Qty 1	Ply 1	Job Reference (optional)
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UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Heidi Ouzts

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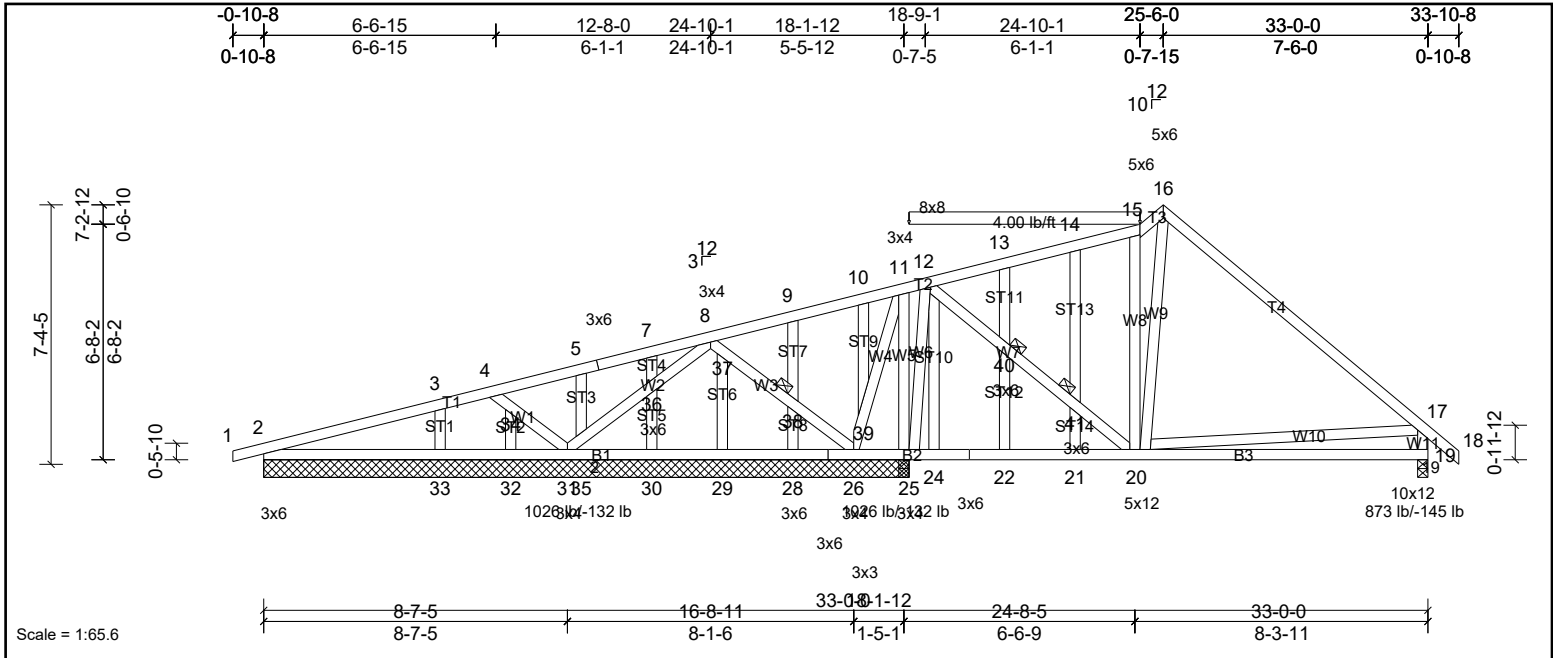


Plate Offsets (X, Y):	[2:0-0-1,Edge], [19:Edge,0-8-6]
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Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	30.0	Plate Grip DOL	1.15	TC	0.81	Vert(LL)	-0.10	19-20	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.75	Vert(CT)	-0.25	19-20	>697	180		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.47	Horz(CT)	0.01	19	n/a	n/a		
BCDL	15.0	Code	IRC2015/TPI2014	Matrix-MSH							Weight: 234 lb	FT = 20%

LUMBER	BRACING
TOP CHORD 2x4 SP No.2 *Except* T4:2x4 SP No.1	TOP CHORD Structural wood sheathing directly applied or 5-5-14 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
WEBS 2x4 SP No.3 *Except* W11:2x4 SP No.2	6-0-0 oc bracing: 25-26.
OTHERS 2x4 SP No.3	1 Brace at Jt(s): 38, 40, 41
	JOINTS

REACTIONS
All bearings 18-3-8. except 19=0-3-8
(lb) - Max Horiz 2=236 (LC 9), 42=236 (LC 9)
Max Uplift All uplift 100 (lb) or less at joint(s) 2, 26, 28, 30, 31, 32, 42 except 19=-146 (LC 11), 25=-132 (LC 10), 33=-110 (LC 10)
Max Grav All reactions 250 (lb) or less at joint(s) 26, 29, 32 except 2=343 (LC 1), 19=873 (LC 1), 25=1027 (LC 1), 28=258 (LC 1), 30=260 (LC 1), 31=318 (LC 1), 33=542 (LC 1), 42=343 (LC 1)

FORCES
(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 12-13=-528/193, 13-14=-497/213, 14-15=-492/228, 15-16=-477/219, 16-17=-790/207, 17-19=-768/257
BOT CHORD 19-20=-293/566
WEBS 15-20=-292/95, 16-20=-48/399, 17-20=-332/373, 12-25=-918/205, 12-40=0/527, 40-41=0/497, 20-41=0/483, 3-33=-352/177

- NOTES**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) -0-10-8 to 2-5-2, Exterior (2) 2-5-2 to 24-10-1, Corner (3) 24-10-1 to 28-9-10, Exterior (2) 28-9-10 to 30-6-14, Corner (3) 30-6-14 to 33-10-8 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - Truss designed for wind loads in the plane of the truss only.
  - All plates are 2x3 MT20 unless otherwise indicated.
  - Gable studs spaced at 2-0-0 oc.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 31, 26, 32, 30, 28, 2 except (it=lb) 19=145, 25=132, 33=110.
  - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
  - 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 (lb/ft)
Vert: 1-11=-80, 11-15=-84 (F=-4), 15-16=-80, 16-17=-80, 17-18=-80, 19-42=-30

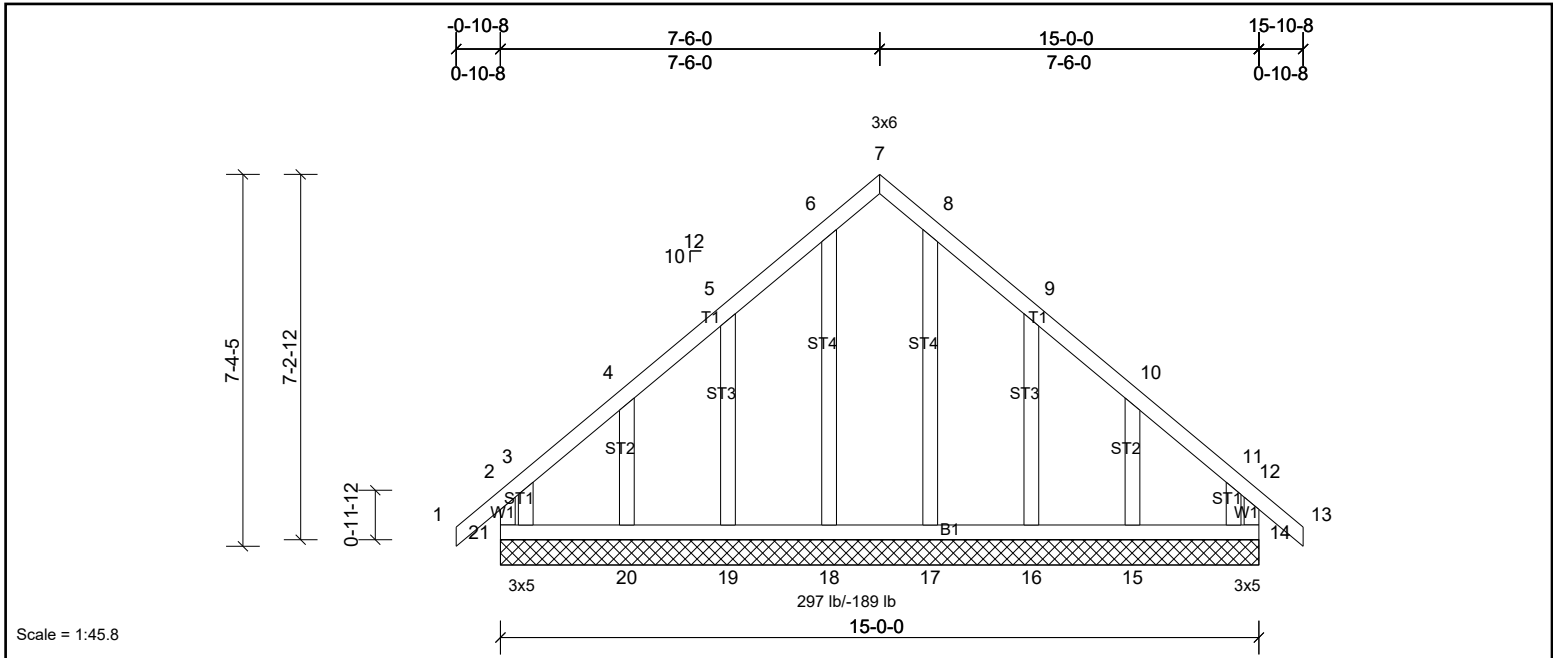
Job 24061831	Truss G5G	Truss Type Truss	Qty 1	Ply 1	Job Reference (optional)
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UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Heidi Ouzts

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Scale = 1:45.8

Plate Offsets (X, Y): [7:0-3-0,Edge]

Loading	(psf)	Spacing		CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	30.0	Plate Grip DOL	2-0-0	TC	0.16	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.10	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.10	Horz(CT)	0.00	14	n/a	n/a		
BCDL	15.0	Code	IRC2015/TPI2014	Matrix-MR							Weight: 97 lb	FT = 20%

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

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

**REACTIONS** All bearings 15'-0-0.  
(lb) - Max Horiz 21=-227 (LC 8)  
Max Uplift All uplift 100 (lb) or less at joint(s) 14, 21 except 15=-185 (LC 11), 16=-108 (LC 11), 19=-106 (LC 10), 20=-189 (LC 10)  
Max Grav All reactions 250 (lb) or less at joint(s) 14, 16, 17, 18, 19 except 15=291 (LC 18), 20=298 (LC 17), 21=257 (LC 18)

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

- NOTES**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCCL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) 0-10-8 to 2-1-8, Exterior (2) 2-1-8 to 4-6-0, Corner (3) 4-6-0 to 10-6-0, Exterior (2) 10-6-0 to 12-10-8, Corner (3) 12-10-8 to 15-10-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - Truss designed for wind loads in the plane of the truss only.
  - All plates are 1.5x3 MT20 unless otherwise indicated.
  - Gable requires continuous bottom chord bearing.
  - Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
  - Gable studs spaced at 2'-0-0 oc.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3'-0-0 tall by 2'-0-0 wide will fit between the bottom chord and any other members.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 21, 14 except (jt=lb) 19=105, 20=189, 16=108, 15=184.
  - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

**LOAD CASE(S)** Standard

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 UFPI plant. 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, erection and bracing available from SBCA and Truss Plate Institute.



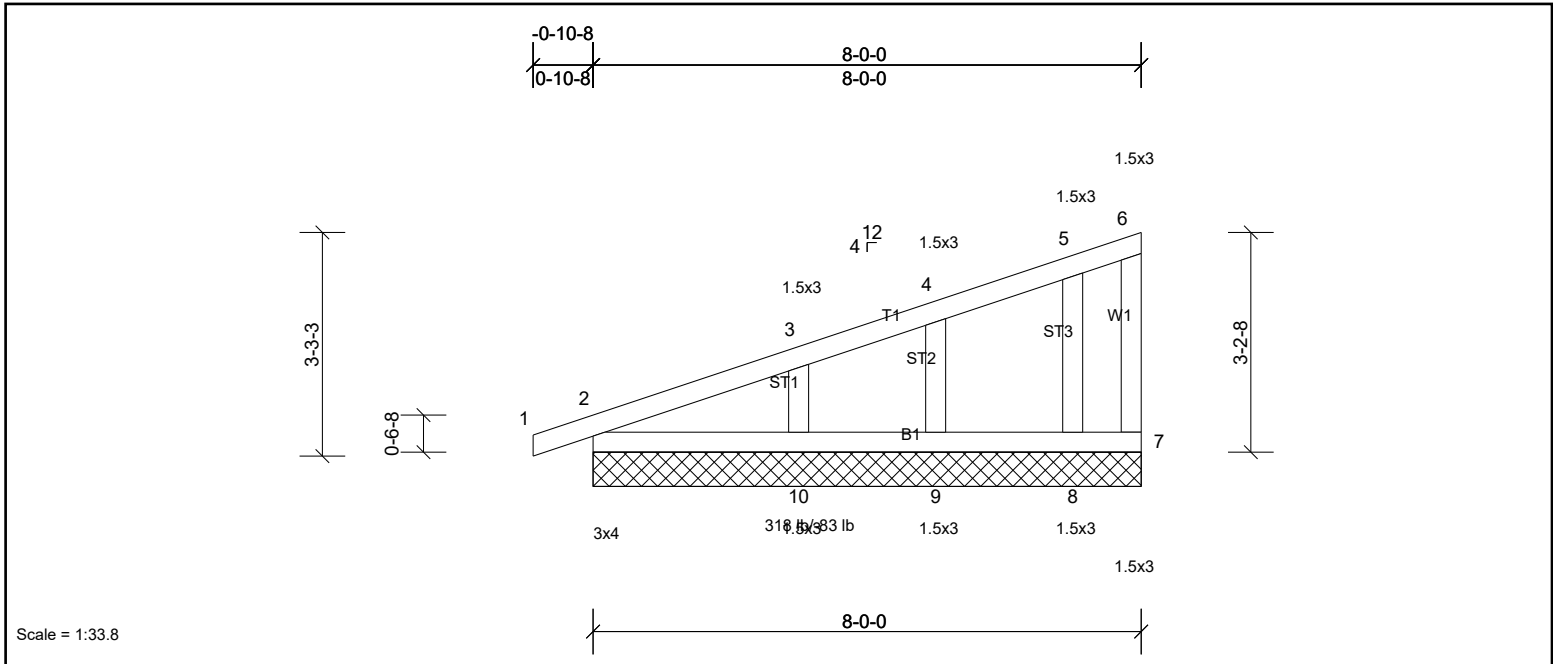
Job 24061831	Truss H1G	Truss Type Truss	Qty 1	Ply 1	Job Reference (optional)
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UFPI Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Heidi Ouzts

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Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	30.0	Plate Grip DOL	1.15	TC	0.12	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.08	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.05	Horz(CT)	0.00	2	n/a	n/a		
BCDL	15.0	Code	IRC2015/TPI2014	Matrix-MSH							Weight: 37 lb	FT = 20%

LUMBER		BRACING	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 6'-0'-0 oc purlins, except 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		
OTHERS	2x4 SP No.3		

**REACTIONS** All bearings 8'-0'-0.  
 (lb) - Max Horiz 2=139 (LC 9), 11=139 (LC 9)  
 Max Uplift All uplift 100 (lb) or less at joint(s) 2, 7, 8, 9, 10, 11  
 Max Grav All reactions 250 (lb) or less at joint(s) 2, 7, 8, 9, 11 except 10=319 (LC 1)

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

- NOTES**
- Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) -0-10-8 to 2-1-8, Exterior (2) 2-1-8 to 4-10-4, Corner (3) 4-10-4 to 7-10-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - Truss designed for wind loads in the plane of the truss only.
  - All plates are 1.5x3 MT20 unless otherwise indicated.
  - Gable requires continuous bottom chord bearing.
  - Gable studs spaced at 2'-0'-0 oc.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3'-0'-0 tall by 2'-0'-0 wide will fit between the bottom chord and any other members.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 7, 10, 9, 8, 2.
  - Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 2, 11.
  - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

**LOAD CASE(S)** Standard

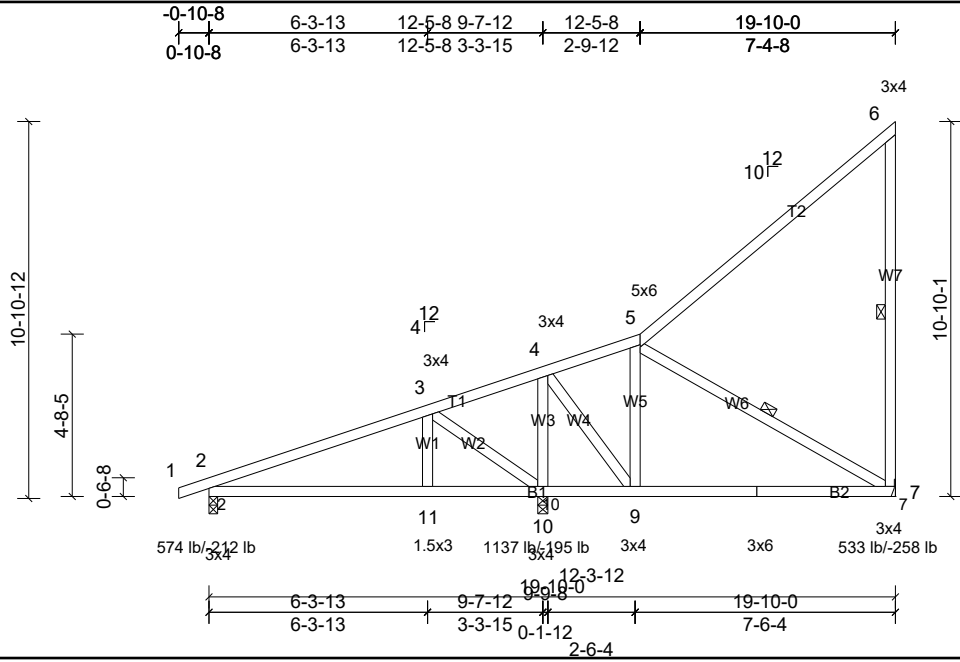
Job 24061831	Truss H2	Truss Type Truss	Qty 2	Ply 1	Job Reference (optional)
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UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Heidi Ouzts

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Scale = 1:66.9

Plate Offsets (X, Y): [5:0-2-12,0-2-8]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	30.0	Plate Grip DOL	1.15	TC	0.77	Vert(LL)	0.09	11-14	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.58	Vert(CT)	-0.22	7-9	>554	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.27	Horz(CT)	0.01	2	n/a	n/a		
BCDL	15.0	Code	IRC2015/TPI2014	Matrix-MSH							Weight: 118 lb	FT = 20%

LUMBER		BRACING	
TOP CHORD	2x4 SP No.2 *Except* T2:2x4 SP No.1	TOP CHORD	Structural wood sheathing directly applied or 5-2-3 oc purlins, except end verticals.
BOT CHORD	2x4 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 6-7, 5-7

**REACTIONS**

(lb/size)	2=574/0-3-0, (min. 0-1-8), 7=524/ Mechanical, (min. 0-1-8), 10=1137/0-3-8, (min. 0-1-8)
Max Horiz	2=455 (LC 10)
Max Uplift	2=-212 (LC 6), 7=-258 (LC 10), 10=-195 (LC 6)
Max Grav	2=574 (LC 1), 7=533 (LC 17), 10=1137 (LC 1)

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

Member	Forces
TOP CHORD	2-15=-663/199, 3-15=-590/215, 4-5=-314/0, 5-16=-253/108, 6-7=-280/206
BOT CHORD	2-11=-529/560, 10-11=-529/560, 8-9=-152/285, 7-8=-152/285
WEBS	5-9=-251/91, 5-7=-316/168, 3-11=-251/304, 3-10=-791/514, 4-10=-684/2, 4-9=0/590

- NOTES**
- Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-10-8 to 2-1-8, Interior (1) 2-1-8 to 16-8-4, Exterior (2) 16-8-4 to 19-8-4 zone; cantilever left and right exposed; end vertical left exposed; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
  - Refer to girder(s) for truss to truss connections.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 258 lb uplift at joint 7, 212 lb uplift at joint 2 and 195 lb uplift at joint 10.
  - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

**LOAD CASE(S)** Standard

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 UFPI plant. 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, erection and bracing available from SBCA and Truss Plate Institute.



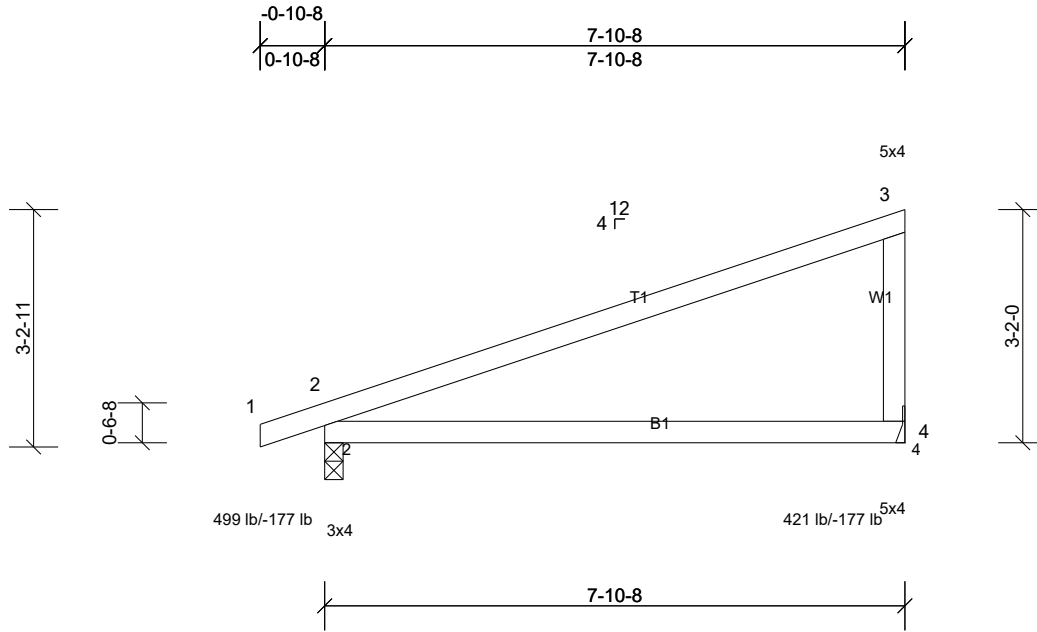
Job 24061831	Truss H3	Truss Type Truss	Qty 8	Ply 1	Job Reference (optional)
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UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Heidi Ouzts

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Scale = 1:31.4

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	30.0	Plate Grip DOL	1.15	TC	0.81	Vert(LL)	0.29	4-7	>318	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.72	Vert(CT)	-0.31	4-7	>299	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.04	2	n/a	n/a		
BCDL	15.0	Code	IRC2015/TPI2014	Matrix-MSH							Weight: 29 lb	FT = 20%

**LUMBER**

TOP CHORD 2x4 SP No.1  
 BOT CHORD 2x4 SP No.2  
 WEBS 2x4 SP No.2

**BRACING**

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

**REACTIONS**

(lb/size) 2=499/0-3-0, (min. 0-1-8), 4=421/ Mechanical, (min. 0-1-8)  
 Max Horiz 2=130 (LC 6)  
 Max Uplift 2=-177 (LC 6), 4=-177 (LC 6)

**FORCES**

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 3-4=-269/168  
 BOT CHORD 2-4=-275/211

**NOTES**

- 1) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) -0-10-8 to 2-1-8, Interior (1) 2-1-8 to 4-8-12, Exterior (2) 4-8-12 to 7-8-12 zone; cantilever left and right exposed; end vertical left exposed; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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'-06"-00 tall by 2'-00"-00 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 177 lb uplift at joint 4 and 177 lb uplift at joint 2.
- 6) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

**LOAD CASE(S)** Standard





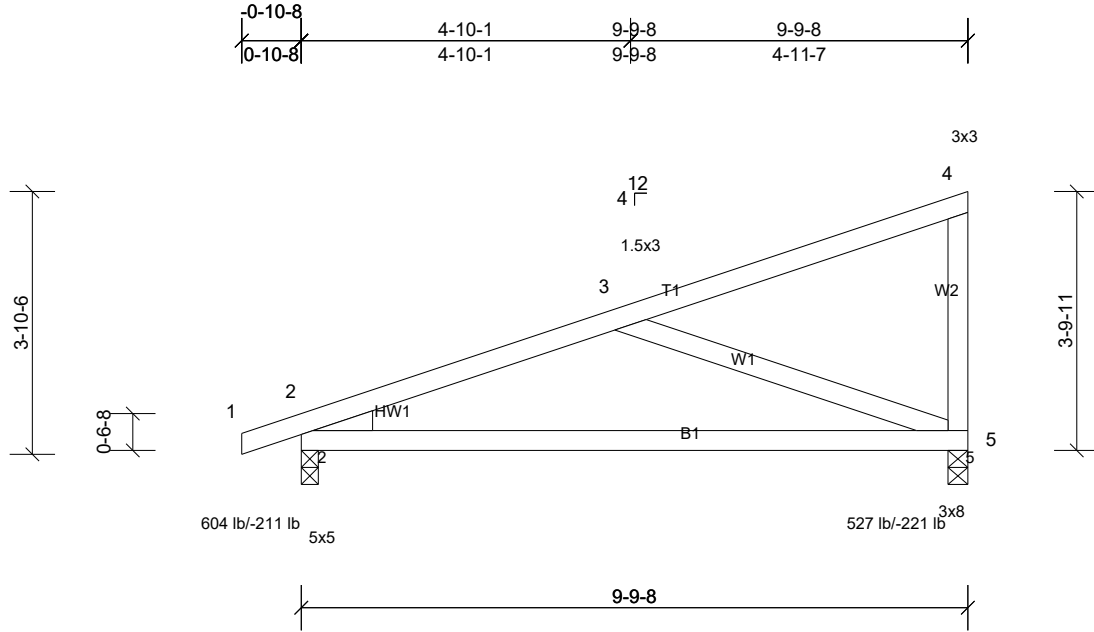
Job 24061831	Truss H4	Truss Type Truss	Qty 2	Ply 1	Job Reference (optional)
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Scale = 1:34

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	30.0	Plate Grip DOL	1.15	TC	0.72	Vert(LL)	0.46	5-8	>253	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.93	Vert(CT)	-0.56	5-8	>207	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.39	Horz(CT)	0.02	2	n/a	n/a		
BCDL	15.0	Code	IRC2015/TPI2014	Matrix-MSH							Weight: 45 lb	FT = 20%

LUMBER		BRACING	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied or 2-2-0 oc bracing.
WEBS	2x4 SP No.3		
WEDGE	Left: 2x4 SP No.2		

REACTIONS	(lb/size)	2=604/0-3-0, (min. 0-1-8), 5=527/0-3-8, (min. 0-1-8)
Max Horiz	2=158 (LC 6)	
Max Uplift	2=-211 (LC 6), 5=-221 (LC 6)	

FORCES	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-9=-797/444, 3-9=-759/357
BOT CHORD	2-5=-471/732
WEBS	3-5=-726/440

- NOTES**
- 1) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) -0-10-8 to 2-1-8, Interior (1) 2-1-8 to 6-7-12, Exterior (2) 6-7-12 to 9-7-12 zone; cantilever left and right exposed ; end vertical left exposed; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
  - 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 211 lb uplift at joint 2 and 221 lb uplift at joint 5.
  - 5) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

**LOAD CASE(S)** Standard

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 UFPI plant. 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, erection and bracing available from SBCA and Truss Plate Institute.



Job 24061831	Truss H5	Truss Type Truss	Qty 8	Ply 1	Job Reference (optional)
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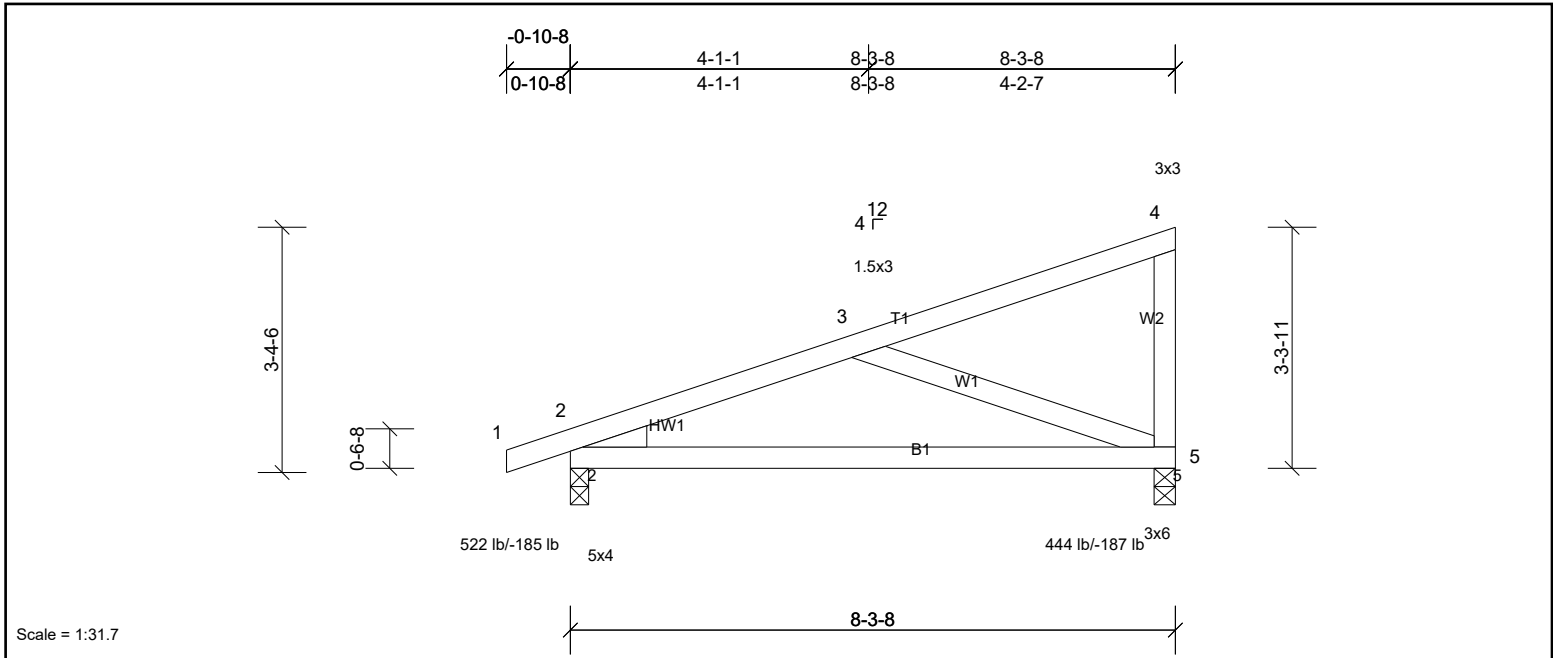


Plate Offsets (X, Y): [2:0-2-8,0-1-6]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	30.0	Plate Grip DOL	1.15	TC	0.49	Vert(LL)	0.23	5-8	>423	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.65	Vert(CT)	-0.28	5-8	>349	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.24	Horz(CT)	0.01	2	n/a	n/a		
BCDL	15.0	Code	IRC2015/TPI2014	Matrix-MSH							Weight: 39 lb	FT = 20%

LUMBER		BRACING	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied or 7-7-14 oc bracing.
WEBS	2x4 SP No.3		
WEDGE	Left: 2x4 SP No.2		

**REACTIONS** (lb/size) 2=522/0-3-0, (min. 0-1-8), 5=444/0-3-8, (min. 0-1-8)  
 Max Horiz 2=136 (LC 6)  
 Max Uplift 2=-185 (LC 6), 5=-187 (LC 6)

**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-9=-656/319, 3-9=-581/318  
 BOT CHORD 2-5=-420/600  
 WEBS 3-5=-596/396

- NOTES**
- 1) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) -0-10-8 to 2-1-8, Interior (1) 2-1-8 to 5-1-12, Exterior (2) 5-1-12 to 8-1-12 zone; cantilever left and right exposed ; end vertical left exposed; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
  - 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 185 lb uplift at joint 2 and 187 lb uplift at joint 5.
  - 5) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

**LOAD CASE(S)** Standard

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 UFPI plant. 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, erection and bracing available from SBCA and Truss Plate Institute.



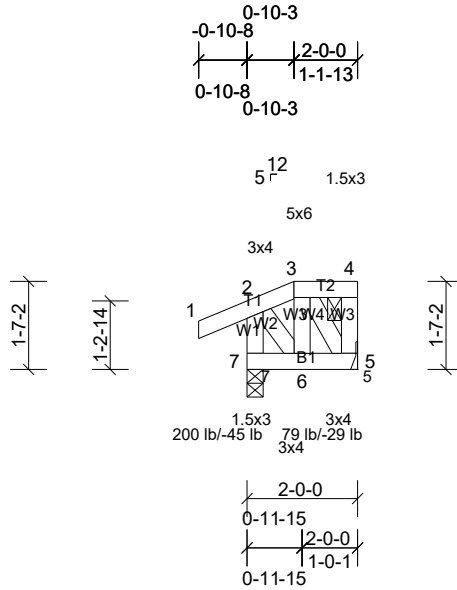
Job 24061831	Truss J1	Truss Type Truss	Qty 2	Ply 1	Job Reference (optional)
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Scale = 1:41.9

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

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	30.0	Plate Grip DOL	1.15	TC	0.09	Vert(LL)	0.00	6	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.01	Vert(CT)	0.00	6	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	5	n/a	n/a		
BCDL	15.0	Code	IRC2015/TPI2014	Matrix-MP							Weight: 15 lb	FT = 20%

LUMBER		BRACING	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 2-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins: 3-4.
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)	5=70/ Mechanical, (min. 0-1-8), 7=200/0-3-8, (min. 0-1-8)
Max Horiz	7=42 (LC 7)
Max Uplift	5=-29 (LC 7), 7=-45 (LC 6)
Max Grav	5=79 (LC 22), 7=200 (LC 1)

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

- NOTES**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) -0-10-8 to 1-10-4 zone; cantilever left and right exposed; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - Provide adequate drainage to prevent water ponding.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
  - Refer to girder(s) for truss to truss connections.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 45 lb uplift at joint 7 and 29 lb uplift at joint 5.
  - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
  - 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 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 UFPI plant. 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, erection and bracing available from SBCA and Truss Plate Institute.



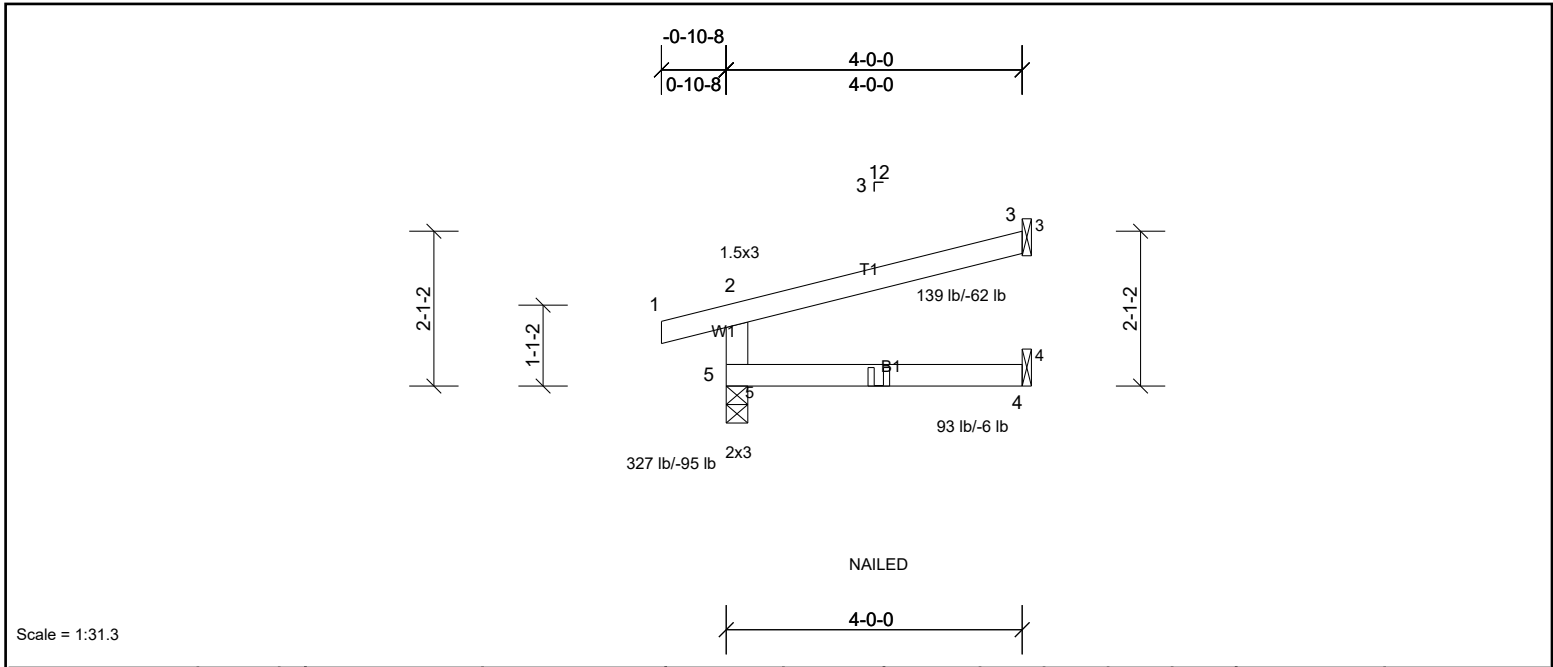
Job 24061831	Truss J2L	Truss Type Truss	Qty 2	Ply 1	Job Reference (optional)
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Scale = 1:31.3

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	30.0	Plate Grip DOL	1.15	TC	0.35	Vert(LL)	0.02	4-5	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.30	Vert(CT)	-0.03	4-5	>999	180		
BCLL	0.0*	Rep Stress Incr		NO	0.00	Horz(CT)	0.02	3	n/a	n/a		
BCDL	15.0	Code	IRC2015/TPI2014	Matrix-MR							Weight: 14 lb	FT = 20%

LUMBER		BRACING	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 4-0-0 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)	3=139/ Mechanical, (min. 0-1-8), 4=85/ Mechanical, (min. 0-1-8), 5=327/0-3-8, (min. 0-1-8)
Max Horiz	5=52 (LC 5)
Max Uplift	3=62 (LC 8), 4=6 (LC 8), 5=95 (LC 4)
Max Grav	3=139 (LC 1), 4=93 (LC 3), 5=327 (LC 1)

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

- NOTES**
- Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
  - Refer to girder(s) for truss to truss connections.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 95 lb uplift at joint 5, 62 lb uplift at joint 3 and 6 lb uplift at joint 4.
  - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
  - "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidelines.
  - In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

**LOAD CASE(S)** Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-2=-80, 2-3=-80, 4-5=-30
Concentrated Loads (lb)
Vert: 6=-52 (F)

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 UFPI plant. 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, erection and bracing available from SBCA and Truss Plate Institute.



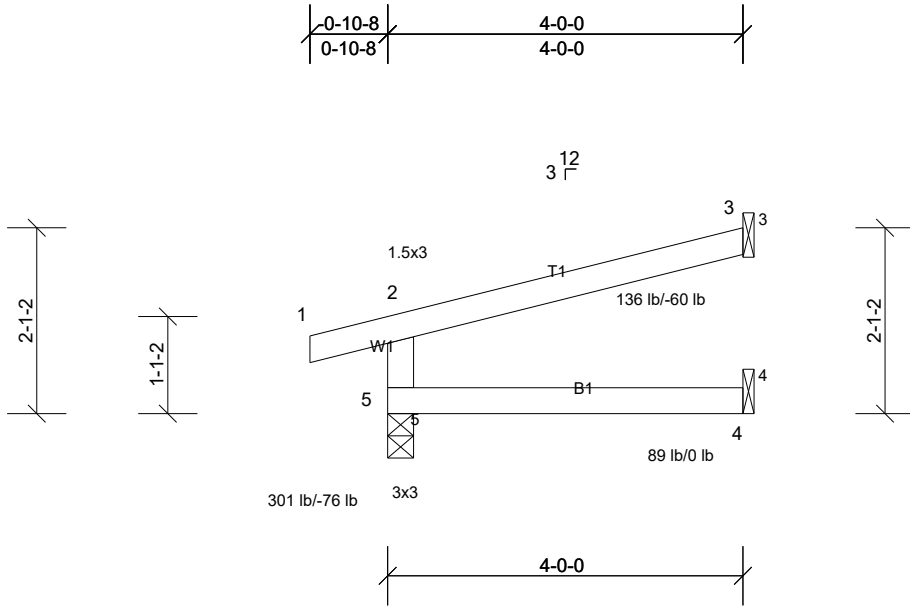
Job 24061831	Truss J3	Truss Type Truss	Qty 10	Ply 1	Job Reference (optional)
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UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Heidi Ouzts

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Scale = 1:26.1

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	30.0	Plate Grip DOL	1.15	TC	0.29	Vert(LL)	0.01	4-5	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.19	Vert(CT)	-0.03	4-5	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.02	3	n/a	n/a		
BCDL	15.0	Code	IRC2015/TPI2014	Matrix-MR							Weight: 14 lb	FT = 20%

LUMBER		BRACING	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 4-0-0 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)	3=136/ Mechanical, (min. 0-1-8), 4=62/ Mechanical, (min. 0-1-8), 5=301/0-3-8, (min. 0-1-8)
Max Horiz	5=52 (LC 7)
Max Uplift	3=-60 (LC 10), 5=-76 (LC 6)
Max Grav	3=136 (LC 1), 4=89 (LC 3), 5=301 (LC 1)

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

- NOTES**
- 1) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
  - 4) Refer to girder(s) for truss to truss connections.
  - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 76 lb uplift at joint 5 and 60 lb uplift at joint 3.
  - 6) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

**LOAD CASE(S)** Standard

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 UFPI plant. 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, erection and bracing available from SBCA and Truss Plate Institute.



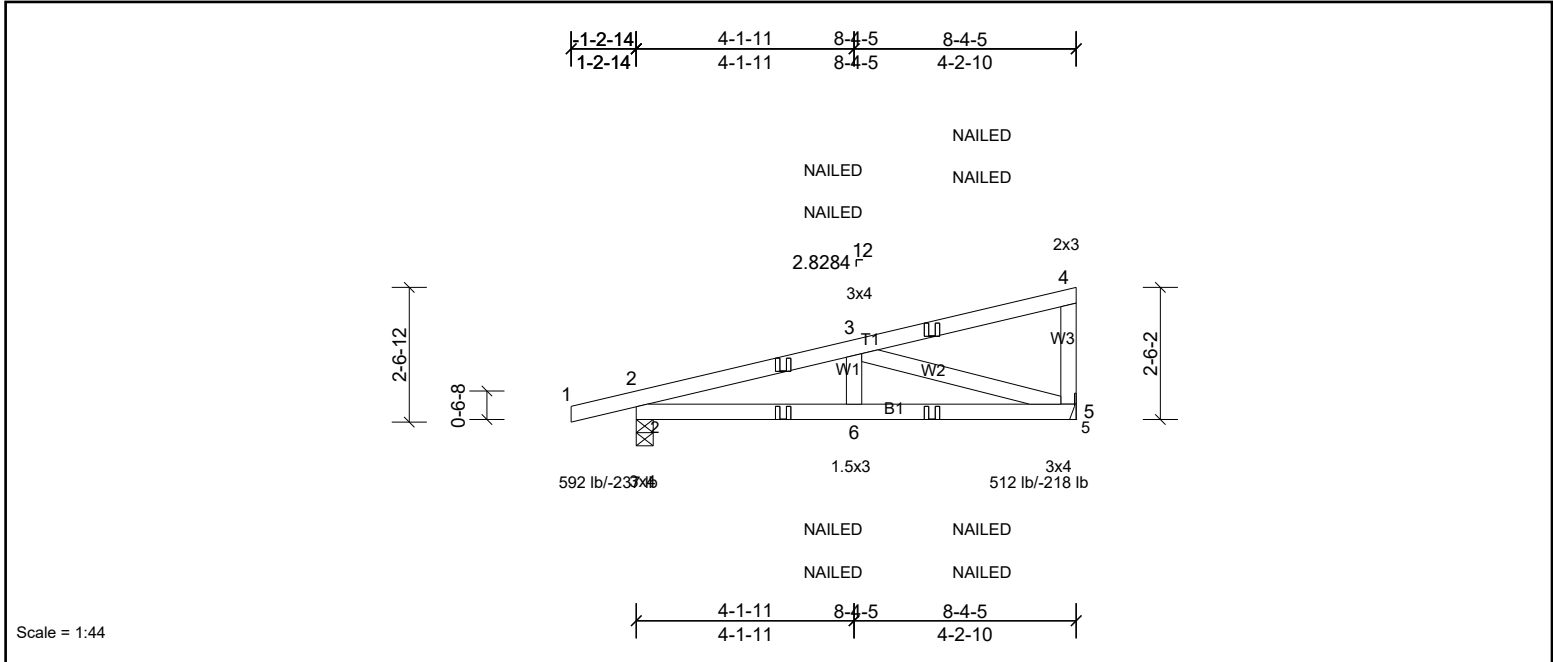
Job 24061831	Truss J4L	Truss Type Truss	Qty 1	Ply 1	Job Reference (optional)
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Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	30.0	Plate Grip DOL	1.15	TC	0.36	Vert(LL)	0.04	5-6	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.47	Vert(CT)	-0.06	5-6	>999	180		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.34	Horz(CT)	0.01	5	n/a	n/a		
BCDL	15.0	Code	IRC2015/TPI2014	Matrix-MSH							Weight: 37 lb	FT = 20%

LUMBER		BRACING	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 5-7-14 oc purlins, except end verticals.
BOT CHORD	2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied or 9-2-14 oc bracing.
WEBS	2x4 SP No.3		

REACTIONS	(lb/size)	2=592/0-3-14, (min. 0-1-8), 5=512/ Mechanical, (min. 0-1-8)
	Max Horiz	2=102 (LC 4)
	Max Uplift	2=-237 (LC 4), 5=-218 (LC 4)

FORCES	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-10=-990/341, 3-10=-925/351
BOT CHORD	2-12=-398/926, 6-12=-398/926, 6-13=-398/926, 5-13=-398/926
WEBS	3-5=-916/393

- NOTES**
- 1) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; end vertical left exposed; porch 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
  - 4) Refer to girder(s) for truss to truss connections.
  - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 237 lb uplift at joint 2 and 218 lb uplift at joint 5.
  - 6) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
  - 7) "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidelines.
  - 8) 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 (lb/ft)
	Vert: 1-4=-80, 5-7=-30
	Concentrated Loads (lb)
	Vert: 11=-46 (F=-23, B=-23), 12=-5 (F=-3, B=-3), 13=-51 (F=-25, B=-25)

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 UFPI plant. 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, erection and bracing available from SBCA and Truss Plate Institute.



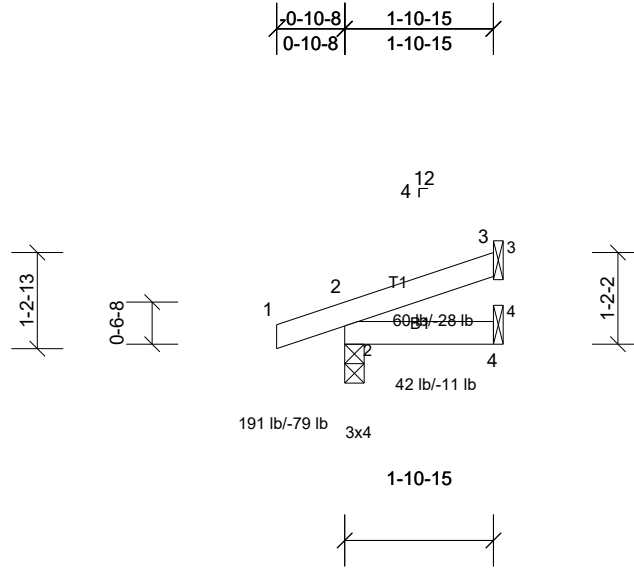
Job 24061831	Truss J5	Truss Type Truss	Qty 2	Ply 1	Job Reference (optional)
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Scale = 1:29.7

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	30.0	Plate Grip DOL	1.15	TC	0.07	Vert(LL)	0.00	4-7	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.04	Vert(CT)	0.00	4-7	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL	15.0	Code	IRC2015/TPI2014	Matrix-MP							Weight: 7 lb	FT = 20%

LUMBER	BRACING
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 1-10-15 oc purlins.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
<b>REACTIONS</b> (lb/size)	
2=191/0-3-0, (min. 0-1-8), 3=60/ Mechanical, (min. 0-1-8), 4=28/ Mechanical, (min. 0-1-8)	
Max Horiz 2=45 (LC 6)	
Max Uplift 2=-79 (LC 6), 3=-28 (LC 6), 4=-11 (LC 7)	
Max Grav 2=191 (LC 1), 3=60 (LC 1), 4=42 (LC 3)	

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

- NOTES**
- 1) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed; end vertical left and right exposed; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
  - 4) Refer to girder(s) for truss to truss connections.
  - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 28 lb uplift at joint 3, 79 lb uplift at joint 2 and 11 lb uplift at joint 4.
  - 6) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- LOAD CASE(S)** Standard

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 UFPI plant. 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, erection and bracing available from SBCA and Truss Plate Institute.



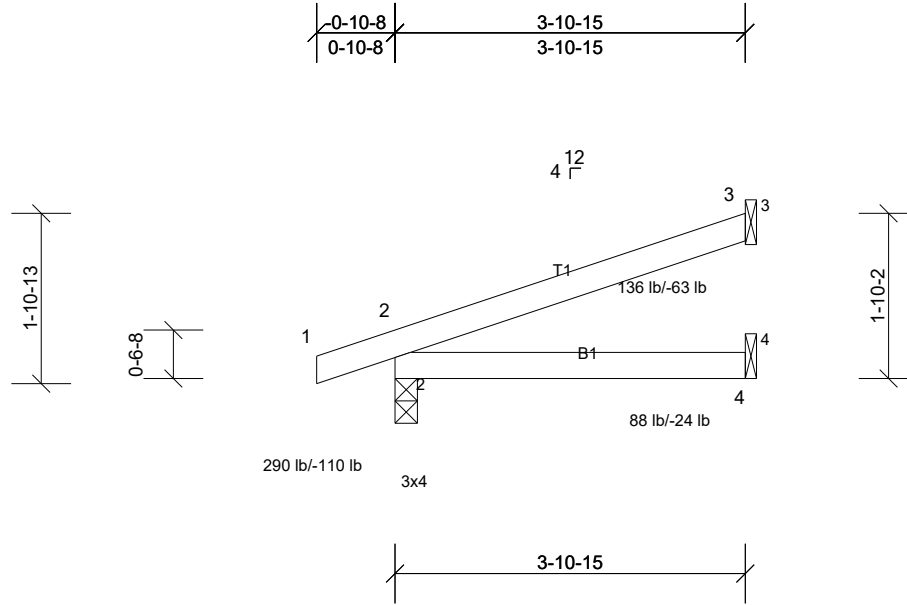
Job 24061831	Truss J6	Truss Type Truss	Qty 2	Ply 1	Job Reference (optional)
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Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	30.0	Plate Grip DOL	1.15	TC	0.29	Vert(LL)	0.03	4-7	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.20	Vert(CT)	-0.03	4-7	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.01	2	n/a	n/a		
BCDL	15.0	Code	IRC2015/TPI2014	Matrix-MP							Weight: 13 lb	FT = 20%

**LUMBER**

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

**BRACING**

TOP CHORD Structural wood sheathing directly applied or 3-10-15 oc purlins.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS**

(lb/size) 2=290/0-3-0, (min. 0-1-8), 3=136/ Mechanical, (min. 0-1-8), 4=68/  
Mechanical, (min. 0-1-8)  
Max Horiz 2=73 (LC 6)  
Max Uplift 2=-110 (LC 6), 3=-63 (LC 6), 4=-24 (LC 6)  
Max Grav 2=290 (LC 1), 3=136 (LC 1), 4=88 (LC 3)

**FORCES**

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

**NOTES**

- 1) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed; end vertical left and right exposed; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 63 lb uplift at joint 3, 110 lb uplift at joint 2 and 24 lb uplift at joint 4.
- 6) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

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 UFPI plant. 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, erection and bracing available from SBCA and Truss Plate Institute.





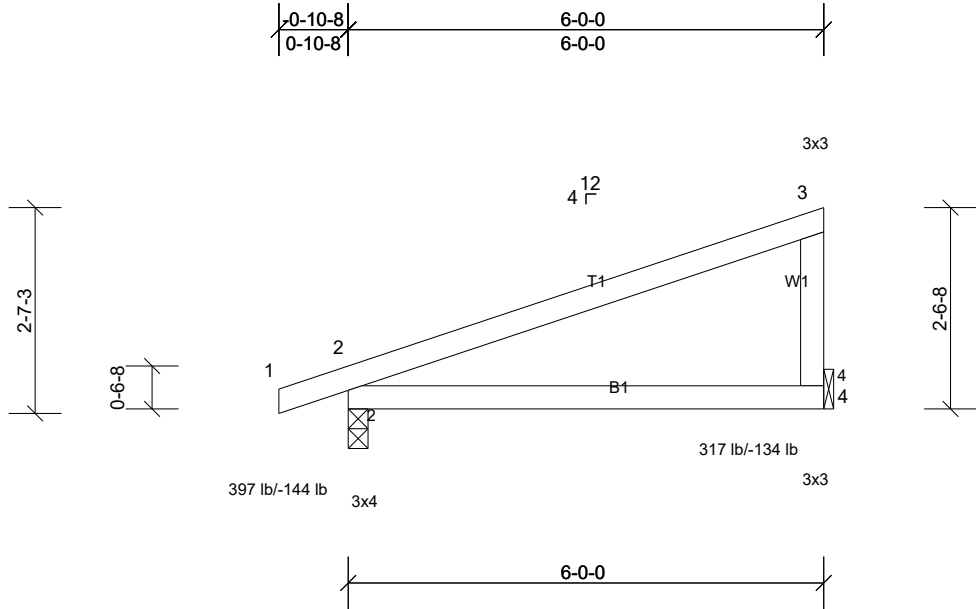
Job 24061831	Truss J7	Truss Type Truss	Qty 1	Ply 1	Job Reference (optional)
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Scale = 1:29.2

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	30.0	Plate Grip DOL	1.15	TC	0.57	Vert(LL)	0.11	4-7	>646	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.41	Vert(CT)	-0.10	4-7	>675	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.02	2	n/a	n/a		
BCDL	15.0	Code	IRC2015/TPI2014	Matrix-MSH							Weight: 23 lb	FT = 20%

LUMBER		BRACING	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except 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)	2=397/0-3-0, (min. 0-1-8), 4=317/ Mechanical, (min. 0-1-8)
Max Horiz		2=102 (LC 6)
Max Uplift		2=-144 (LC 6), 4=-134 (LC 6)

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

- NOTES**
- 1) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed; end vertical left exposed; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
  - 4) Refer to girder(s) for truss to truss connections.
  - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 134 lb uplift at joint 4 and 144 lb uplift at joint 2.
  - 6) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

**LOAD CASE(S)** Standard

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 UFPI plant. 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, erection and bracing available from SBCA and Truss Plate Institute.



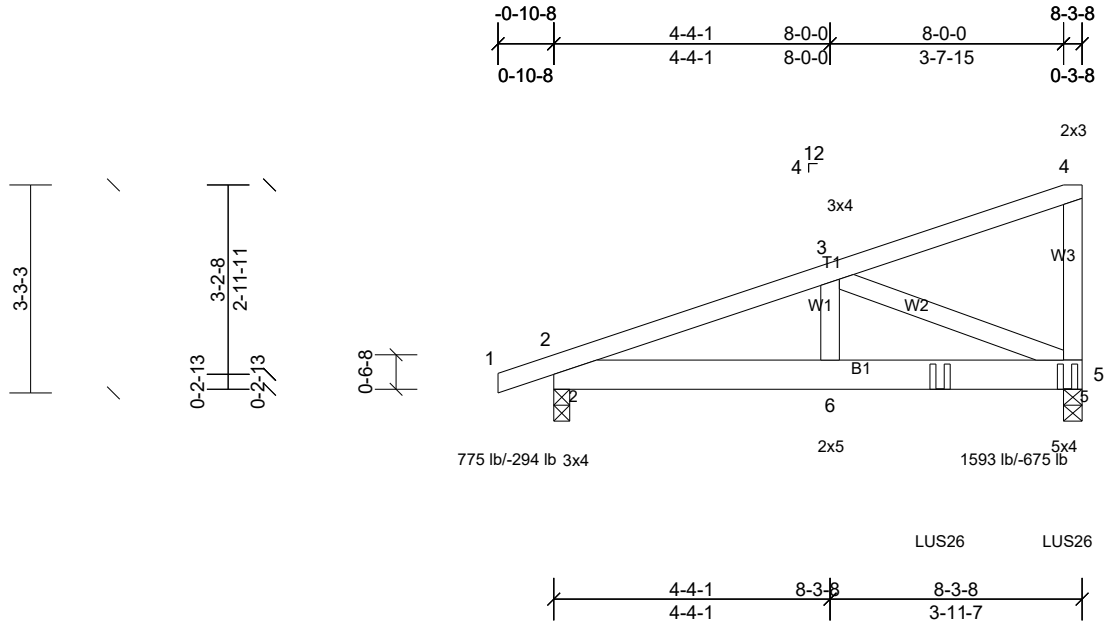
Job 24061831	Truss J8L	Truss Type Truss	Qty 1	Ply 1	Job Reference (optional)
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Scale = 1:36.3

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	30.0	Plate Grip DOL	1.15	TC	0.45	Vert(LL)	0.04	5-6	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.89	Vert(CT)	-0.07	5-6	>999	180		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.52	Horz(CT)	0.01	5	n/a	n/a		
BCDL	15.0	Code	IRC2015/TPI2014	Matrix-MSH							Weight: 45 lb	FT = 20%

LUMBER		BRACING	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 4-7-2 oc purlins, except end verticals.
BOT CHORD	2x6 SP No.1	BOT CHORD	Rigid ceiling directly applied or 9-2-1 oc bracing.
WEBS	2x4 SP No.3		

REACTIONS	(lb/size)	2=775/0-3-0, (min. 0-1-8), 5=1593/0-3-8, (min. 0-1-14)
Max Horiz	2=136 (LC 4)	
Max Uplift	2=-294 (LC 4), 5=-675 (LC 4)	

FORCES	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-3=-1548/559
BOT CHORD	2-6=-605/1421, 6-10=-605/1421, 5-10=-605/1421
WEBS	3-6=-304/742, 3-5=-1486/632

- NOTES**
- Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left exposed; porch 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 294 lb uplift at joint 2 and 675 lb uplift at joint 5.
  - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
  - Use Simpson Strong-Tie LUS26 (4-SD9112 Girder, 4-SD9212 Truss, Single Ply Girder) or equivalent at 6-0-12 from the left end to connect truss(es) J10L (1 ply 2x6 SP) to back face of bottom chord.
  - Use Simpson Strong-Tie LUS26 (4-10d Truss, 3-10d Truss, Single Ply Girder) or equivalent at 8-0-12 from the left end to connect truss(es) J9 (1 ply 2x4 SP) to back face of bottom chord.
  - Fill all nail holes where hanger is in contact with lumber.
  - 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 (lb/ft)
	Vert: 1-4=-80, 5-7=-30
	Concentrated Loads (lb)
	Vert: 5=-412 (B), 10=-990 (B)

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 UFPI plant. 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, erection and bracing available from SBCA and Truss Plate Institute.



Job 24061831	Truss J9	Truss Type Truss	Qty 11	Ply 1	Job Reference (optional)
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UFPI Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Heidi Ouzts

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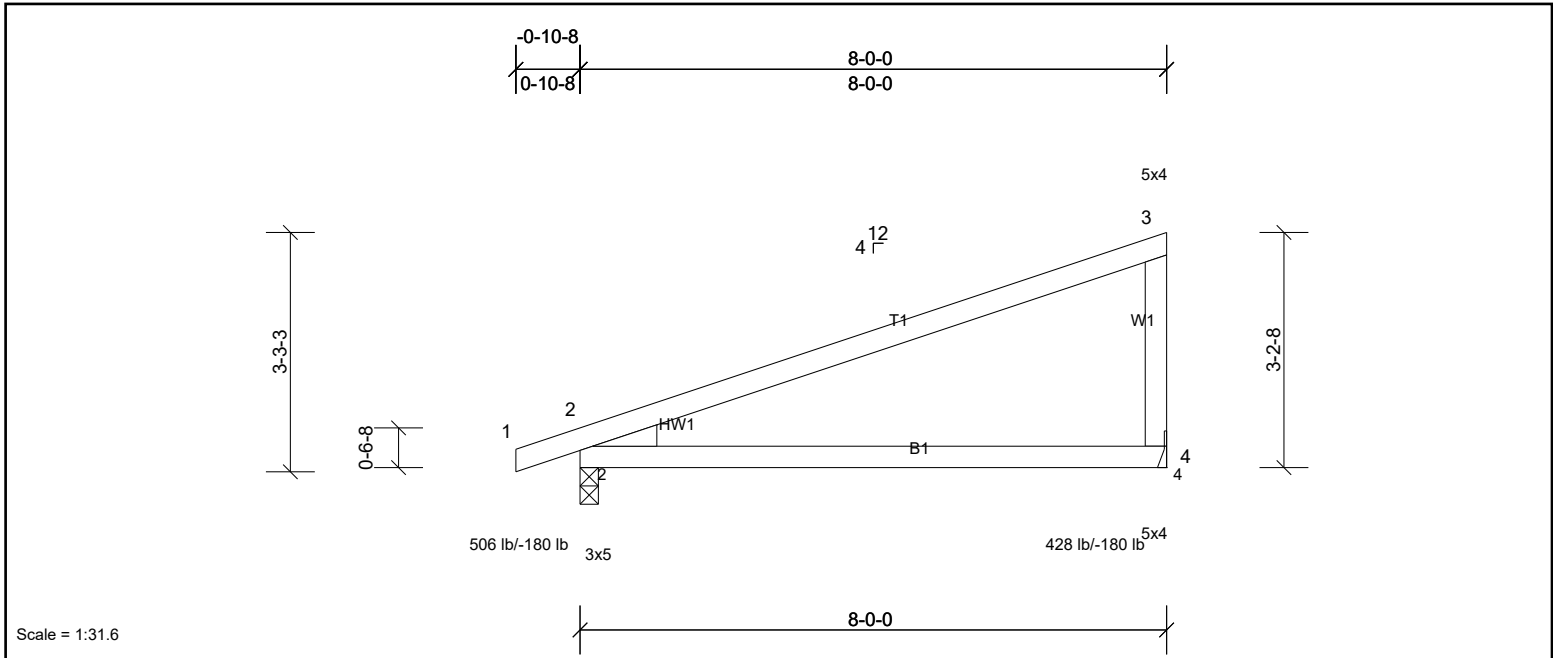


Plate Offsets (X, Y): [2:Edge,0-0-14], [4:Edge,0-3-8]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	30.0	Plate Grip DOL	1.15	TC	0.84	Vert(LL)	0.32	4-7	>295	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.74	Vert(CT)	-0.33	4-7	>284	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.04	2	n/a	n/a		
BCDL	15.0	Code	IRC2015/TPI2014	Matrix-MSH							Weight: 31 lb	FT = 20%

LUMBER		BRACING	
TOP CHORD	2x4 SP No.1	TOP CHORD	Structural wood sheathing directly applied or 4-6-8 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.2		
WEDGE	Left: 2x4 SP No.2		

REACTIONS	(lb/size)	2=506/0-3-0, (min. 0-1-8), 4=428/ Mechanical, (min. 0-1-8)
	Max Horiz	2=132 (LC 6)
	Max Uplift	2=-180 (LC 6), 4=-180 (LC 6)

FORCES	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	3-4=-273/183
BOT CHORD	2-4=-282/219

- NOTES**
- 1) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) -0-10-8 to 2-1-8, Interior (1) 2-1-8 to 3-7-5, Exterior (2) 3-7-5 to 7-10-4 zone; cantilever left and right exposed; end vertical left exposed; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
  - 4) Refer to girder(s) for truss to truss connections.
  - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 180 lb uplift at joint 4 and 180 lb uplift at joint 2.
  - 6) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

**LOAD CASE(S)** Standard

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 UFPI plant. 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, erection and bracing available from SBCA and Truss Plate Institute.



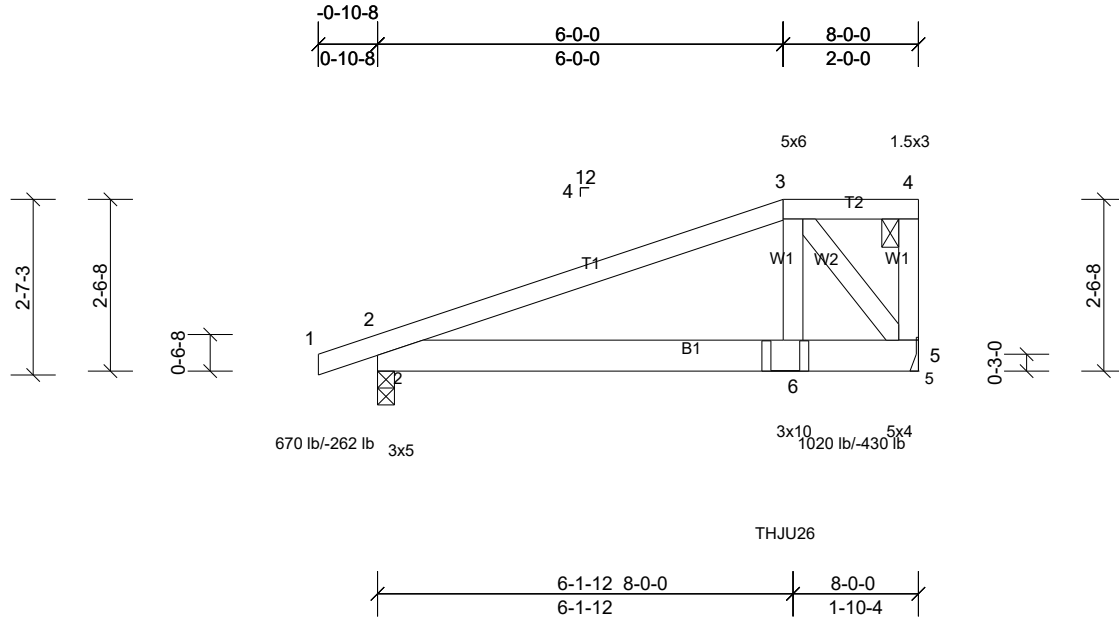
Job 24061831	Truss J10L	Truss Type Truss	Qty 1	Ply 1	Job Reference (optional)
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UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Heidi Ouzts

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Scale = 1:34.2

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

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	30.0	Plate Grip DOL	1.15	TC	0.54	Vert(LL)	0.03	6-9	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.41	Vert(CT)	-0.05	6-9	>999	180		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.40	Horz(CT)	0.01	5	n/a	n/a		
BCDL	15.0	Code	IRC2015/TPI2014	Matrix-MSH							Weight: 41 lb	FT = 20%

LUMBER		BRACING	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 5-1-1 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 3-4.
BOT CHORD	2x6 SP No.2	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	2x4 SP No.3		

**REACTIONS**

(lb/size)	2=670/0-3-0, (min. 0-1-8), 5=1020/ Mechanical, (min. 0-1-8)
Max Horiz	2=105 (LC 4)
Max Uplift	2=-262 (LC 4), 5=-430 (LC 4)

**FORCES**

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
TOP CHORD	2-3=-926/335
BOT CHORD	2-6=-345/810, 5-6=-372/875
WEBS	3-6=-406/967, 3-5=-1326/565

**NOTES**

- Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left exposed; porch 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 262 lb uplift at joint 2 and 430 lb uplift at joint 5.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- Use Simpson Strong-Tie THJU26 (SGL & SGL LC 1-PLY) or equivalent at 6-0-6 from the left end to connect truss(es) J7 (1 ply 2x4 SP), J4L (1 ply 2x4 SP) to front face of bottom chord.
- Fill all nail holes where hanger is in contact with lumber.
- 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 (lb/ft)
- Vert: 1-3=-80, 3-4=-80, 5-7=-30
- Concentrated Loads (lb)
- Vert: 6=-756 (F)

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 UFPI plant. 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, erection and bracing available from SBCA and Truss Plate Institute.



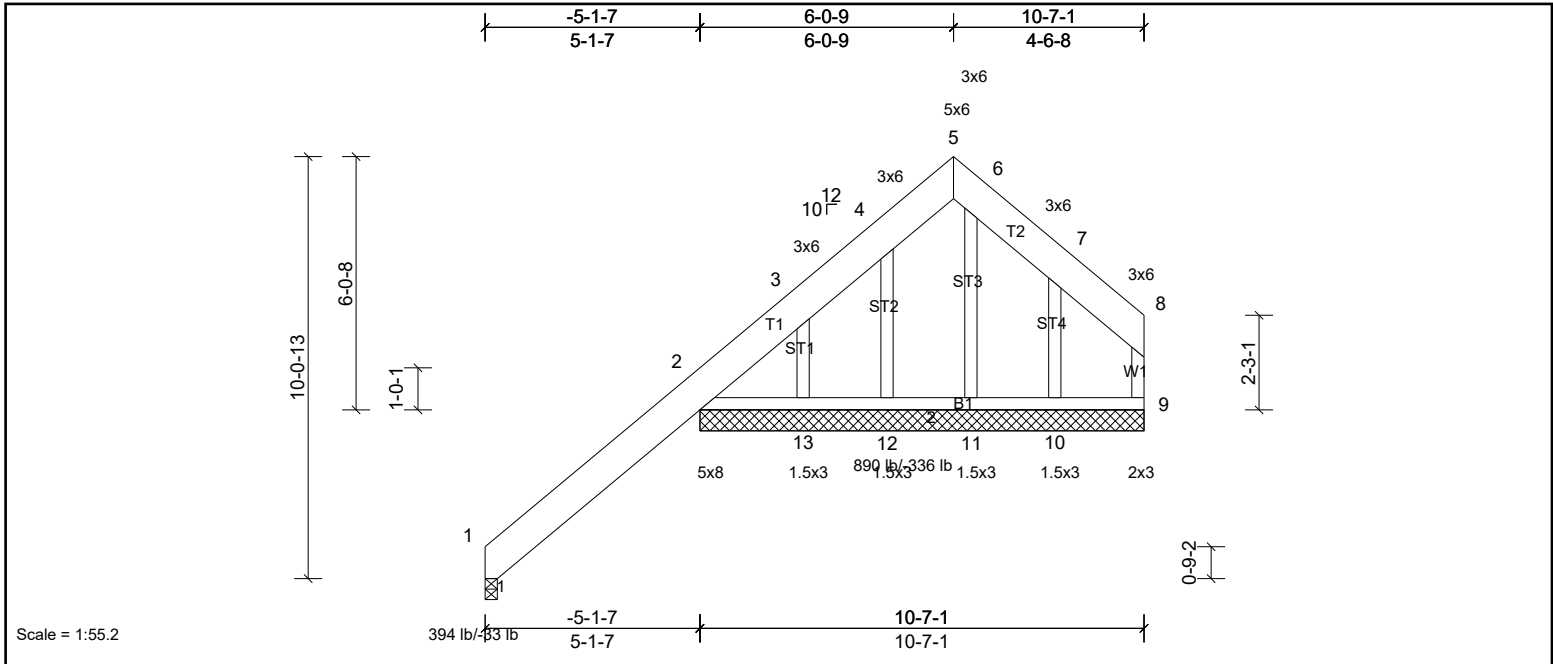
Job 24061831	Truss L1G	Truss Type Truss	Qty 1	Ply 1	Job Reference (optional)
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UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Heidi Ouzts

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Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	30.0	Plate Grip DOL	1.15	TC	0.28	Vert(LL)	0.02	14	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.17	Vert(CT)	-0.03	14	>952	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.15	Horz(CT)	0.03	9	n/a	n/a		
BCDL	15.0	Code	IRC2015/TPI2014	Matrix-MSH							Weight: 121 lb	FT = 20%

LUMBER	BRACING
TOP CHORD 2x10 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 2x4 SP No.3	
OTHERS 2x4 SP No.3	

REACTIONS
All bearings 10-7-0. except 1=0-3-8
(lb) - Max Horiz 1=274 (LC 10)
Max Uplift All uplift 100 (lb) or less at joint(s) 1, 2, 9, 11, 12, 17 except 10=101 (LC 11), 13=336 (LC 10)
Max Grav All reactions 250 (lb) or less at joint(s) 2, 9, 12, 17 except 1=394 (LC 18), 10=320 (LC 1), 11=297 (LC 17), 13=890 (LC 17)

FORCES
(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-347/278, 2-3=-204/430
WEBS 3-13=-750/334

- NOTES**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) -4-11-6 to -1-11-6, Exterior (2) -1-11-6 to 3-0-14, Corner (3) 3-0-14 to 10-5-10 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - Truss designed for wind loads in the plane of the truss only.
  - Gable studs spaced at 2-0-0 oc.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
  - Bearing at joint(s) 1 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 100 lb uplift at joint(s) 9, 2, 12, 11, 1, 2 except (jt=lb) 13=336, 10=101.
  - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

**LOAD CASE(S)** Standard



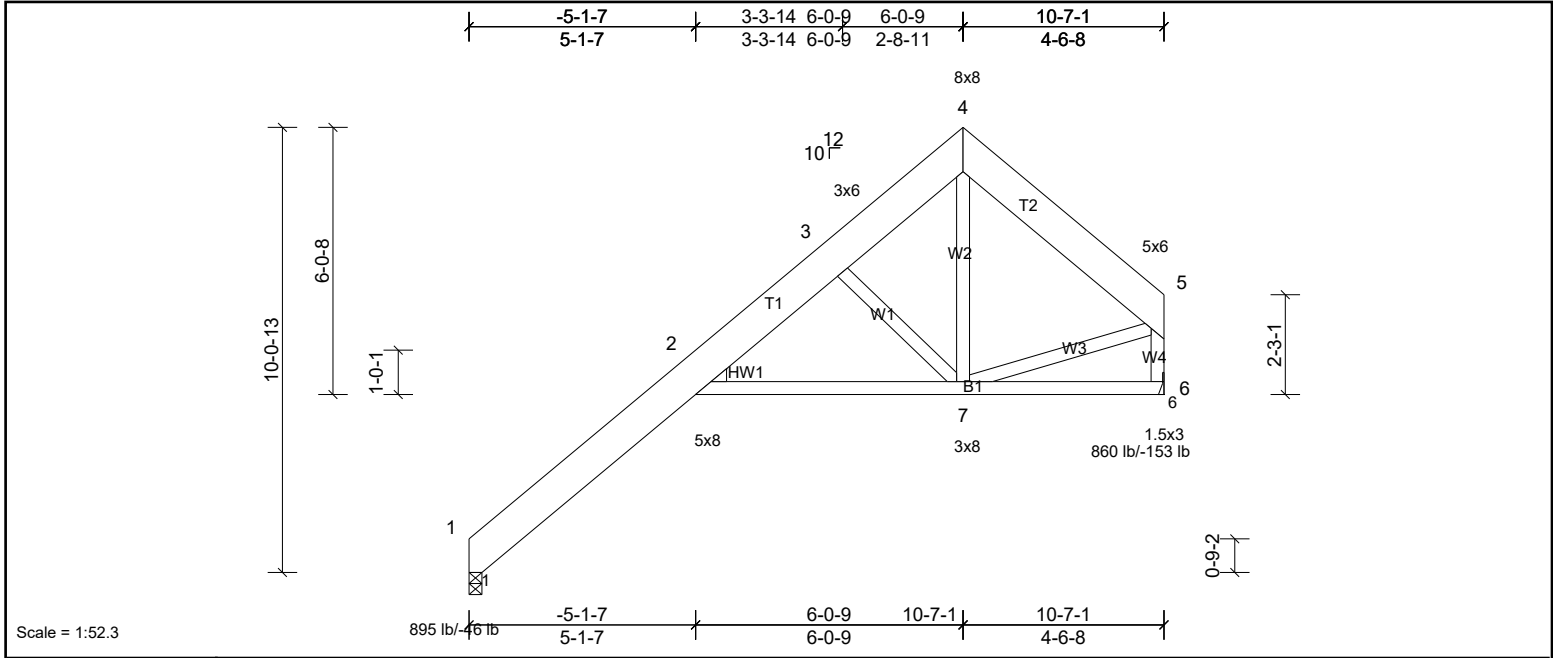
Job 24061831	Truss L2	Truss Type Truss	Qty 11	Ply 1	Job Reference (optional)
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UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Heidi Ouzts

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Scale = 1:52.3	895 lb/46 lb	-5-1-7	6-0-9	10-7-1	10-7-1
		5-1-7	6-0-9	4-6-8	4-6-8

Plate Offsets (X, Y):	[4:0-4:0,0-4:4]						
<b>Loading</b> (psf)	<b>Spacing</b> 2-0-0	<b>CSI</b>	<b>DEFL</b> in (loc)	<b>L/defl</b>	<b>L/d</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL (roof) 30.0	Plate Grip DOL 1.15	TC 0.45	Vert(LL) 0.18	8	>999	240	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.53	Vert(CT) -0.32	8	>570	180	
BCLL 0.0*	Rep Stress Incr YES	WB 0.33	Horz(CT) 0.28	6	n/a	n/a	
BCDL 15.0	Code IRC2015/TPI2014	Matrix-MSH					Weight: 122 lb FT = 20%

<b>LUMBER</b>	<b>BRACING</b>
TOP CHORD 2x10 SP 2400F 2.0E *Except* T2:2x10 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 9-6-6 oc bracing.
WEBS 2x4 SP No.3	
WEDGE Left: 2x4 SP No.2	

<b>REACTIONS</b>	(lb/size)	1=895/0-3-8, (min. 0-1-8), 6=860/ Mechanical, (min. 0-1-8)
	Max Horiz	1=311 (LC 10)
	Max Uplift	1=46 (LC 10), 6=153 (LC 10)

<b>FORCES</b>	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	1-11=-556/44, 2-11=-291/79, 2-3=-1220/245, 3-4=-836/234, 4-5=-778/195, 5-6=-810/156
BOT CHORD	2-7=-377/1305
WEBS	4-7=-173/709, 5-7=-104/563, 3-7=-1060/391

- NOTES**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) -4-11-6 to -1-11-6, Interior (1) -1-11-6 to 3-0-14 to 10-5-10 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
  - Refer to girder(s) for truss to truss connections.
  - Bearing at joint(s) 1 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 153 lb uplift at joint 6 and 46 lb uplift at joint 1.
  - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

<b>LOAD CASE(S)</b>	Standard
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Job 24061831	Truss L3	Truss Type Truss	Qty 3	Ply 1	Job Reference (optional)
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UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Heidi Ouzts

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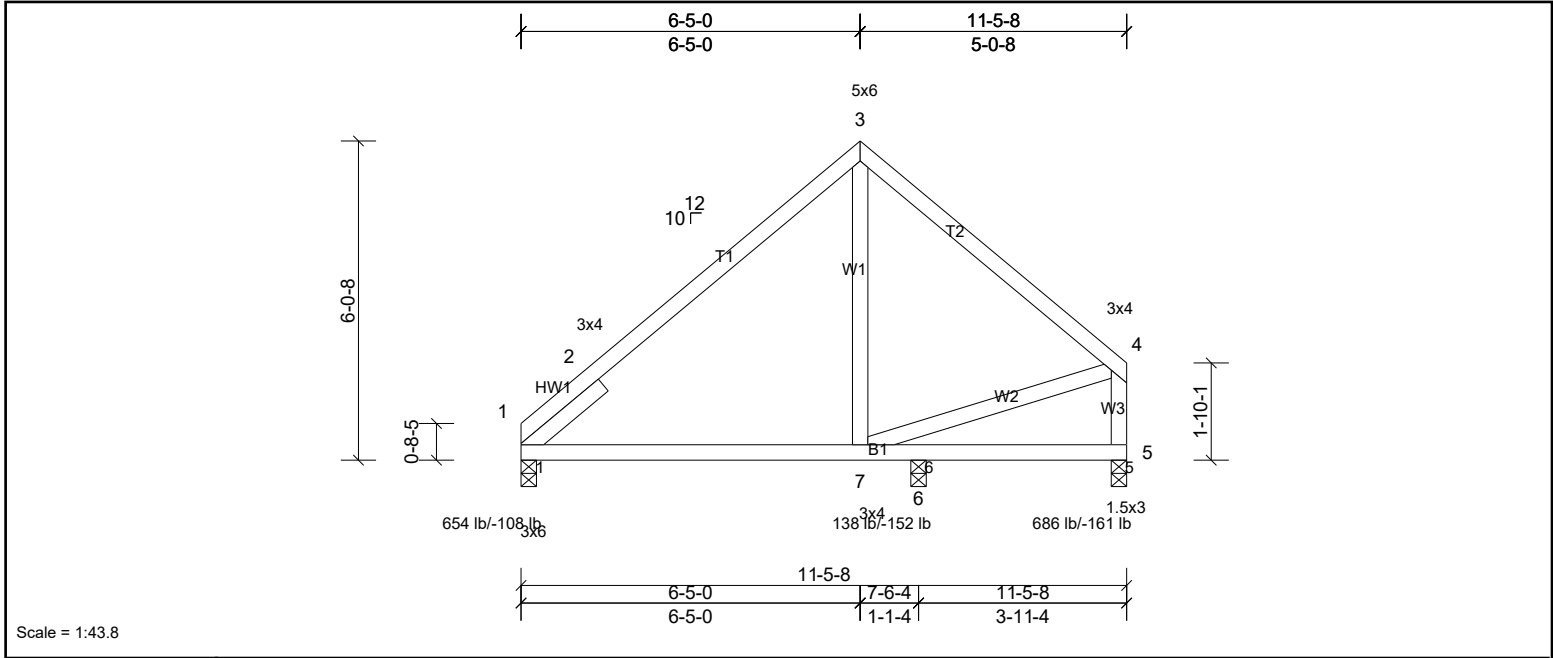


Plate Offsets (X, Y): [1:0-3-8,Edge], [4:0-0-12,0-1-8]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	30.0	Plate Grip DOL	1.15	TC	0.68	Vert(LL)	0.08	7-10	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.58	Vert(CT)	-0.13	7-10	>706	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.14	Horz(CT)	0.03	1	n/a	n/a		
BCDL	15.0	Code	IRC2015/TPI2014	Matrix-MSH							Weight: 60 lb	FT = 20%

LUMBER		BRACING	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 5-9-0 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		
SLIDER	Left 2x4 SP No.3 -- 1-11-0		

REACTIONS	(lb/size)	1=654/0-3-8, (min. 0-1-8), 5=684/0-3-8, (min. 0-1-8), 6=94/0-3-8, (min. 0-1-8)
Max Horiz	1=146 (LC 7)	
Max Uplift	1=-108 (LC 10), 5=-161 (LC 10), 6=-152 (LC 17)	
Max Grav	1=654 (LC 1), 5=686 (LC 17), 6=138 (LC 10)	

FORCES	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	1-2=-457/57, 2-12=-539/182, 12-13=-517/185, 3-13=-516/208, 3-4=-661/218, 4-5=-622/209
BOT CHORD	1-14=-355/490, 7-14=-101/458
WEBS	3-7=-72/310, 4-7=-90/439

- NOTES**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-0-0 to 3-0-0, Interior (1) 3-0-0 to 3-5-0, Exterior (2) 3-5-0 to 11-3-12 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 15.0psf.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 108 lb uplift at joint 1, 161 lb uplift at joint 5 and 152 lb uplift at joint 6.
  - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

**LOAD CASE(S)** Standard

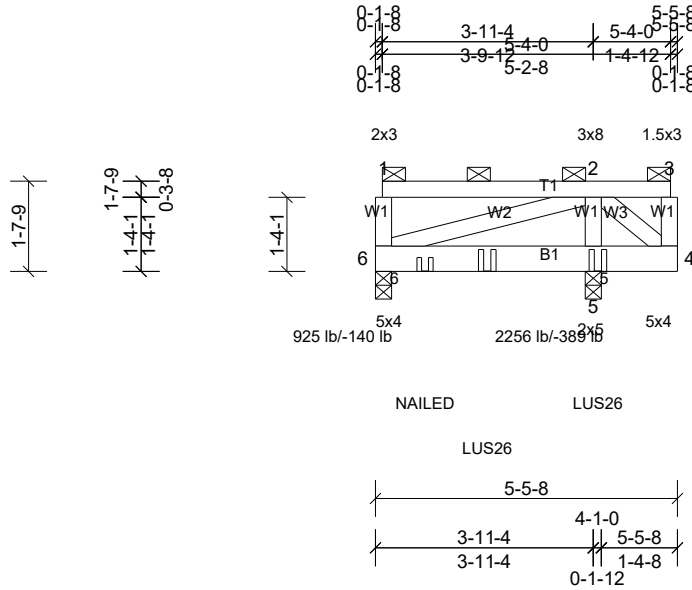
Job 24061831	Truss L4L	Truss Type Truss	Qty 1	Ply 2	Job Reference (optional)
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UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Heidi Ouzts

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Scale = 1:41.8

Loading	(psf)	Spacing	3-6-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	30.0	Plate Grip DOL	1.15	TC	0.33	Vert(LL)	-0.01	5-6	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.49	Vert(CT)	-0.02	5-6	>999	180		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.06	Horz(CT)	0.00	5	n/a	n/a		
BCDL	15.0	Code	IRC2015/TPI2014	Matrix-MSH							Weight: 64 lb	FT = 20%

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

**BRACING**  
TOP CHORD 2-0-0 oc purlins, except end verticals  
(Switched from sheeted: Spacing > 2-0-0).  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS** (lb/size) 5=2256/0-3-8, (min. 0-1-8), 6=925/0-3-8, (min. 0-1-8)  
Max Uplift 5=-389 (LC 4), 6=-140 (LC 4)

**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
BOT CHORD 6-7=-66/401, 7-8=-66/401, 5-8=-66/401, 4-5=-66/401  
WEBS 2-5=-37/371, 2-4=-580/99

**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.  
Web connected as follows: 2x4 - 1 row at 0-9-0 oc.
- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section.  
Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp C; Enclosed;  
MWFRS (envelope) exterior zone; 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 389 lb uplift at joint 5 and 140 lb uplift at joint 6.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- Use Simpson Strong-Tie LUS26 (4-SD9112 Girder, 4-SD9212 Truss, Single Ply Girder) or equivalent spaced at 2-0-0 oc max. starting at 2-0-4 from the left end to 4-0-4 to connect truss(es) M2 (1 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 per NDS guidelines.

**LOAD CASE(S)** Standard

- Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15  
Uniform Loads (lb/ft)  
Vert: 1-3=-140, 4-6=-53  
Concentrated Loads (lb)  
Vert: 5=-1043 (F), 7=-102 (F), 8=-1043 (F)

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 UFPI plant. 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, erection and bracing available from SBCA and Truss Plate Institute.





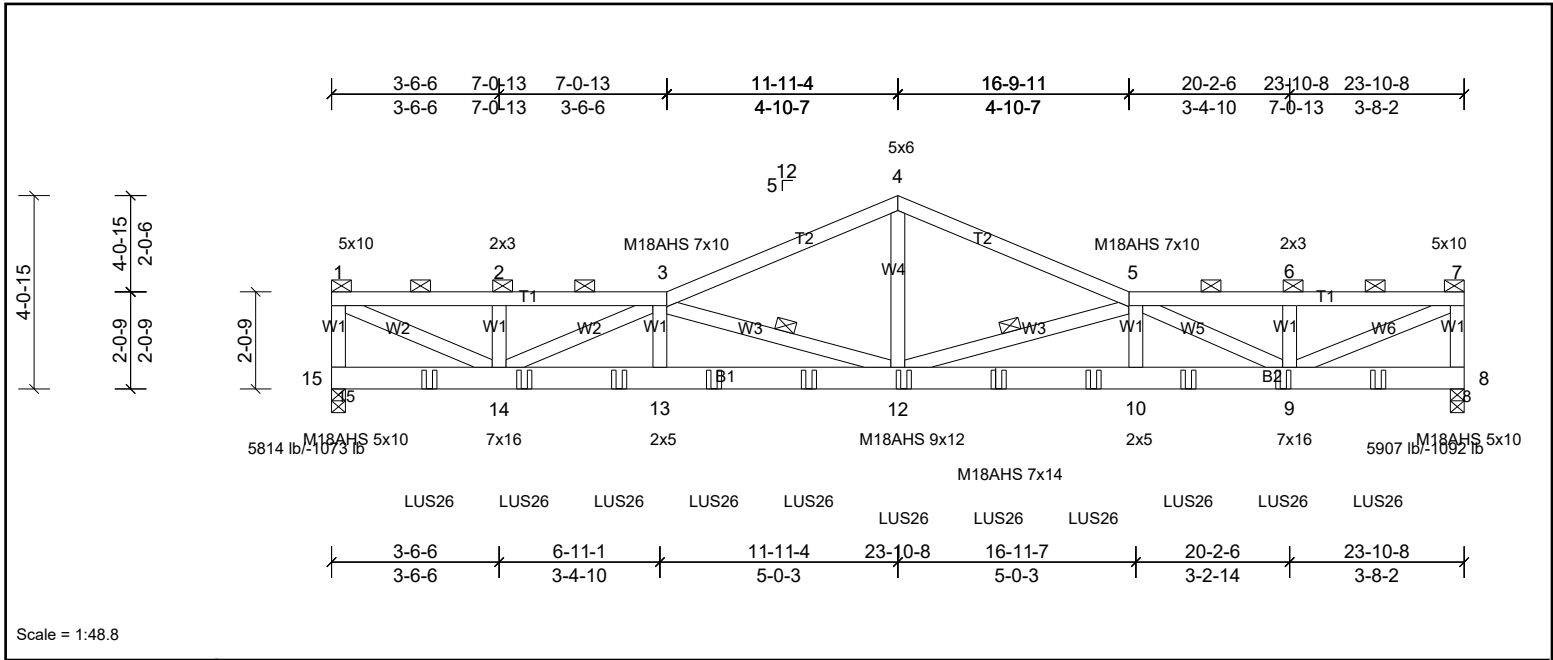
Job 24061831	Truss L5L	Truss Type Truss	Qty 1	Ply 2	Job Reference (optional)
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UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Heidi Ouzts

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Scale = 1:48.8

Plate Offsets (X, Y): [3:0-3-12,0-3-4], [5:0-4-0,0-3-4], [8:Edge,0-3-8], [12:0-5-4,0-4-8]

Loading	(psf)	Spacing	2-0-0	CSI	DEFLL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	30.0	Plate Grip DOL	1.15	TC	0.87	Vert(LL)	-0.41	10-12	>691	240	M18AHS	186/179
TCDL	10.0	Lumber DOL	1.15	BC	1.00	Vert(CT)	-0.74	10-12	>382	180	MT20	244/190
BCLL	0.0*	Rep Stress Incr	NO	WB	0.99	Horz(CT)	0.12	8	n/a	n/a		
BCDL	15.0	Code	IRC2015/TPI2014	Matrix-MSH								Weight: 288 lb FT = 20%

LUMBER		BRACING	
TOP CHORD	2x4 SP No.2 *Except* T2:2x4 SP SS	TOP CHORD	Structural wood sheathing directly applied or 3-8-8 oc purlins, except end verticals, and 2-0-0 oc purlins (2-10-6 max.): 1-3, 5-7.
BOT CHORD	2x6 SP SS	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	2x4 SP No.3 *Except* W2,W6:2x4 SP No.1, W4:2x4 SP No.2	WEBS	1 Row at midpt 3-12, 5-12
<b>REACTIONS</b>	(lb/size) 8=5907/0-3-8, (min. 0-3-8), 15=5814/0-3-8, (min. 0-3-7) Max Horiz 15=64 (LC 7) Max Uplift 8=1092 (LC 9), 15=1073 (LC 8)		
<b>FORCES</b>	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 1-15=-5292/997, 1-2=-10559/1930, 2-3=-10559/1930, 3-4=-11218/2011, 4-5=-11218/2011, 5-6=-10950/2001, 6-7=-10950/2001, 7-8=-5263/993 BOT CHORD 14-17=-3221/17780, 17-18=-3221/17780, 13-18=-3221/17780, 13-19=-3202/17660, 19-20=-3202/17660, 12-20=-3202/17660, 11-12=-3201/17535, 11-21=-3201/17535, 10-21=-3201/17535, 10-22=-3217/17642, 9-22=-3217/17642, 9-23=-66/260, 8-23=-66/260 WEBS 1-14=-2114/11514, 3-14=-7990/1425, 3-13=-215/1418, 3-12=-7754/1492, 4-12=-1396/8063, 5-12=-7622/1466, 5-10=-187/1269, 5-9=-7464/1327, 7-9=-2171/11829		

- 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.  
Web connected as follows: 2x4 - 1 row at 0-9-0 oc, Except member 4-12 2x4 - 1 row at 0-8-0 oc, member 6-9 2x4 - 1 row at 0-2-0 oc.
  - All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section.  
Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
  - Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1073 lb uplift at joint 15 and 1092 lb uplift at joint 8.
  - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
  - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
  - Use Simpson Strong-Tie LUS26 (4-10d Girder, 3-10d Truss, Single Ply Girder) or equivalent spaced at 2-0-0 oc max. starting at 2-0-12 from the left end to 22-0-12 to connect truss(es) L2 (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
- Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15  
Uniform Loads (lb/ft)  
Vert: 1-3=-80, 3-4=-80, 4-5=-80, 5-7=-80, 8-15=-30

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 UFPI plant. 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, erection and bracing available from SBCA and Truss Plate Institute.



Job 24061831	Truss L5L	Truss Type Truss	Qty 1	Ply 2	Job Reference (optional)
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UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Heidi Ouzts

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Concentrated Loads (lb)

Vert: 11=-830 (B), 12=-830 (B), 9=-830 (B), 16=-830 (B), 17=-830 (B), 18=-830 (B), 19=-830 (B), 20=-830 (B), 21=-830 (B), 22=-830 (B), 23=-830 (B)

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 UFPI plant. 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, erection and bracing available from SBCA and Truss Plate Institute.



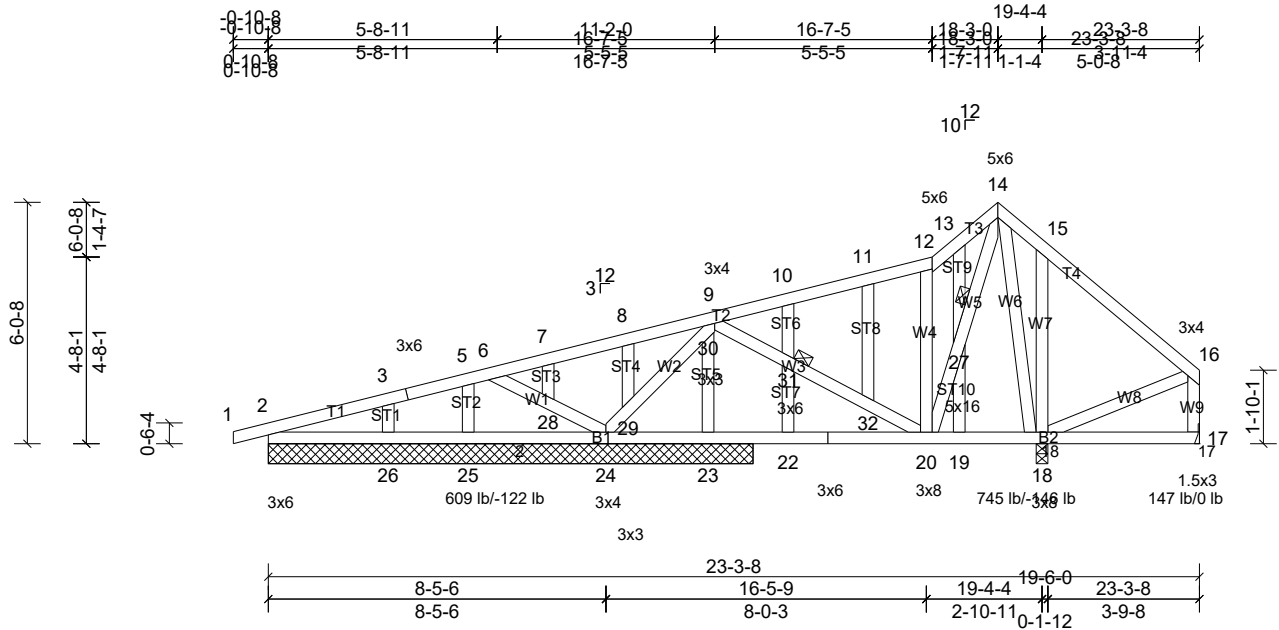
Job 24061831	Truss M1G	Truss Type Truss	Qty 1	Ply 1	Job Reference (optional)
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UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Heidi Ouzts

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Scale = 1:57.9

Plate Offsets (X, Y): [16:0-1-8,0-1-8]

Loading	(psf)	Spacing		CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	30.0	Plate Grip DOL	2-0-0	TC	0.29	Vert(LL)	-0.03	20-22	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.24	Vert(CT)	-0.05	20-22	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.47	Horz(CT)	0.00	18	n/a	n/a		
BCDL	15.0	Code	IRC2015/TPI2014	Matrix-MSH							Weight: 157 lb	FT = 20%

LUMBER		BRACING	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS	2x4 SP No.3	JOINTS	1 Brace at Jt(s): 27, 31
OTHERS	2x4 SP No.3		

**REACTIONS**  
 All bearings 12-1-8, except 17= Mechanical, 18=0-3-8  
 (lb) - Max Horiz 2=168 (LC 7), 33=168 (LC 7)  
 Max Uplift All uplift 100 (lb) or less at joint(s) 2, 24, 26, 33 except 18=-146 (LC 11), 23=-123 (LC 10)  
 Max Grav All reactions 250 (lb) or less at joint(s) 2, 17, 25, 33 except 18=746 (LC 1), 23=610 (LC 21), 24=467 (LC 21), 26=297 (LC 21)

**FORCES**  
 (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 13-14=-278/152  
 WEBS 6-28=-257/136, 24-28=-298/157, 24-29=-280/78, 9-30=-519/123, 12-20=-261/134, 20-27=-150/431, 14-27=-177/486, 14-18=-313/32, 15-18=-326/222, 23-30=-410/121

- NOTES**
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) -0-10-8 to 2-1-8, Exterior (2) 2-1-8 to 16-7-5, Corner (3) 16-7-5 to 23-1-12 zone; cantilever left and right exposed; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 3) Truss designed for wind loads in the plane of the truss only.
  - 4) All plates are 2x3 MT20 unless otherwise indicated.
  - 5) Gable studs spaced at 2-0-0 oc.
  - 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 7) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
  - 8) Refer to girder(s) for truss to truss connections.
  - 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 24, 26, 2 except (jt=lb) 18=146, 23=122.
  - 10) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

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 UFPI plant. 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, erection and bracing available from SBCA and Truss Plate Institute.



Job 24061831	Truss M2	Truss Type Truss	Qty 2	Ply 1	Job Reference (optional)
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UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Heidi Ouzts

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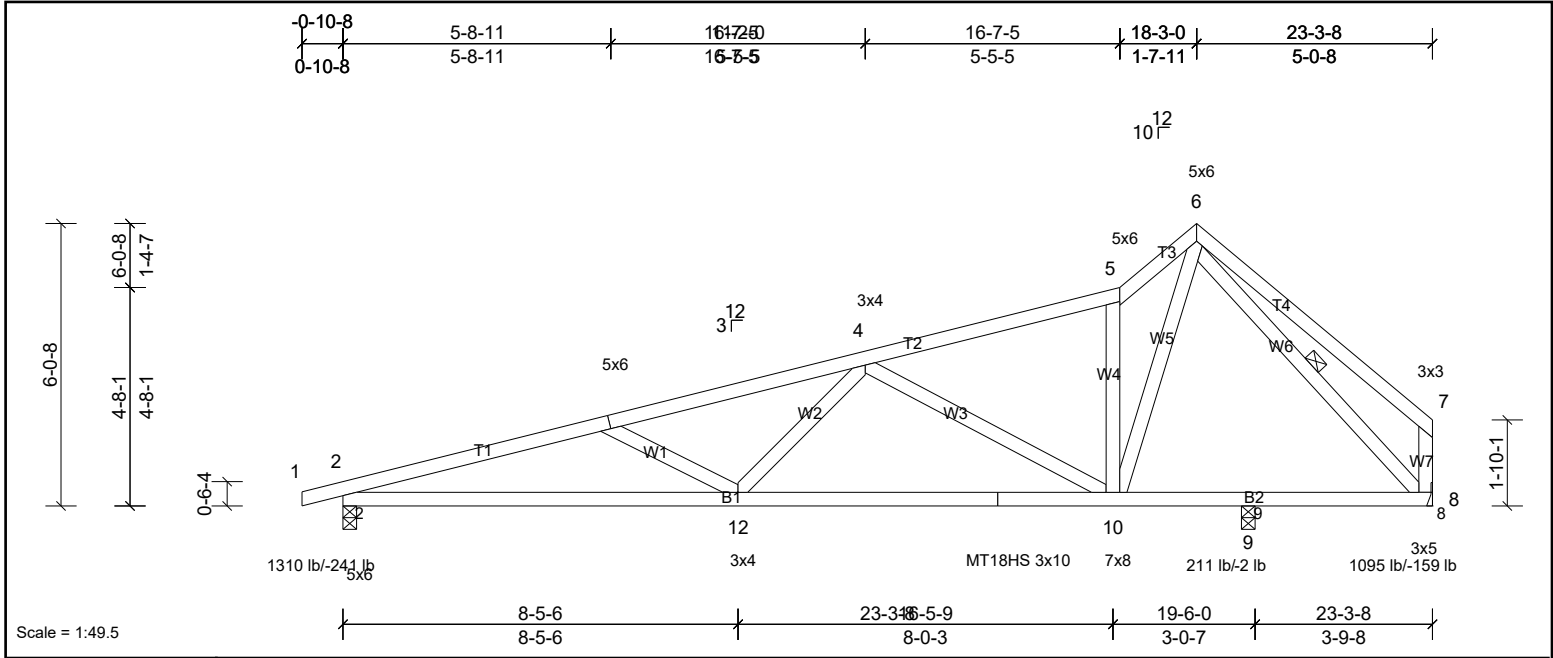


Plate Offsets (X, Y): [3:0-3-0,0-3-0], [6:0-3-0,0-1-4]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	30.0	Plate Grip DOL	1.15	TC	0.90	Vert(LL)	-0.23	10-12	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.94	Vert(CT)	-0.48	10-12	>485	180	MT18HS	244/190
BCLL	0.0*	Rep Stress Incr	YES	WB	0.91	Horz(CT)	0.07	8	n/a	n/a		
BCDL	15.0	Code	IRC2015/TPI2014	Matrix-MSH							Weight: 121 lb	FT = 20%

LUMBER		BRACING	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD	2x4 SP No.1 *Except* B2:2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied or 2-2-0 oc bracing.
WEBS	2x4 SP No.3	WEBS	1 Row at midpt 6-8
REACTIONS			
(lb/size)	2=1310/0-3-8, (min. 0-1-9), 8=1095/ Mechanical, (min. 0-1-8), 9=211/0-3-8, (min. 0-1-8)		
Max Horiz	2=168 (LC 7)		
Max Uplift	2=-241 (LC 6), 8=-159 (LC 10), 9=-2 (LC 10)		
FORCES			
	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.		
TOP CHORD	2-16=-3355/573, 3-16=-3289/587, 3-4=-2913/445, 4-5=-1375/231, 5-6=-1701/364, 7-8=-250/181		
BOT CHORD	2-12=-664/3191, 11-12=-466/2348, 10-11=-466/2348, 9-10=-106/784, 8-9=-106/784		
WEBS	3-12=-484/223, 4-12=-10/655, 4-10=-1237/307, 5-10=-952/266, 6-10=-342/1744, 6-8=-1141/149		

- NOTES**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-10-8 to 2-1-8, Interior (1) 2-1-8 to 16-7-5, Exterior (2) 16-7-5 to 23-1-12 zone; cantilever left and right exposed; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - All plates are MT20 plates unless otherwise indicated.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
  - Refer to girder(s) for truss to truss connections.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 241 lb uplift at joint 2, 159 lb uplift at joint 8 and 2 lb uplift at joint 9.
  - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

**LOAD CASE(S)** Standard

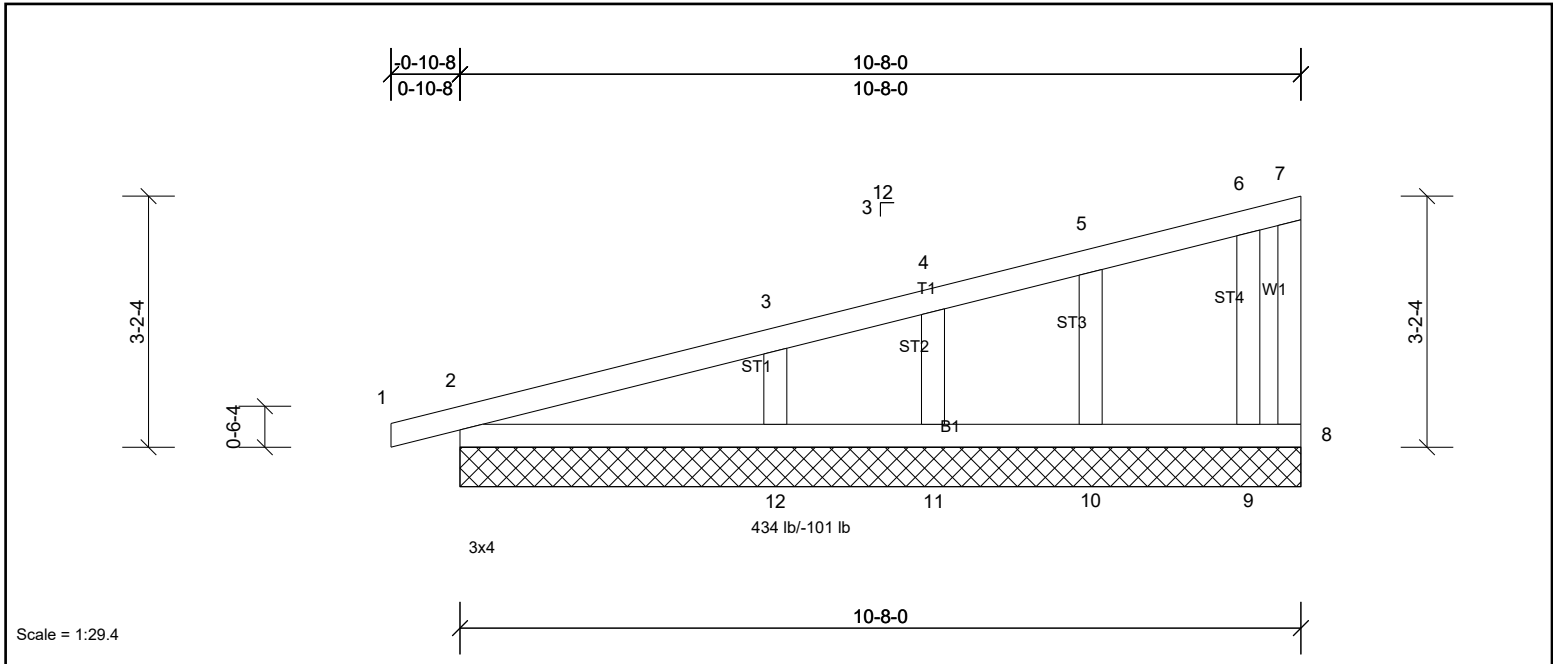
Job 24061831	Truss M3G	Truss Type Truss	Qty 5	Ply 1	Job Reference (optional)
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Scale = 1:29.4

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	30.0	Plate Grip DOL	1.15	TC	0.21	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.15	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.06	Horz(CT)	0.00	2	n/a	n/a		
BCDL	15.0	Code	IRC2015/TPI2014	Matrix-MSH							Weight: 48 lb	FT = 20%

LUMBER		BRACING	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except 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		
OTHERS	2x4 SP No.3		

REACTIONS	
All bearings 10-8-0.	
(lb) - Max Horiz	2=128 (LC 6), 13=128 (LC 6)
Max Uplift	All uplift 100 (lb) or less at joint(s) 2, 8, 9, 10, 11, 13 except 12=102 (LC 10)
Max Grav	All reactions 250 (lb) or less at joint(s) 8, 9, 11 except 2=261 (LC 1), 10=255 (LC 1), 12=434 (LC 1), 13=261 (LC 1)

FORCES	
(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
WEBS	3-12=-292/190

- NOTES**
- 1) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) -0-10-8 to 2-1-8, Exterior (2) 2-1-8 to 7-6-4, Corner (3) 7-6-4 to 10-6-4 zone; cantilever left and right exposed ; end vertical left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 2) Truss designed for wind loads in the plane of the truss only.
  - 3) All plates are 1.5x3 MT20 unless otherwise indicated.
  - 4) Gable requires continuous bottom chord bearing.
  - 5) Gable studs spaced at 2-0-0 oc.
  - 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 7) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
  - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 8, 11, 10, 9, 2 except (jt=lb) 12=101.
  - 9) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

**LOAD CASE(S)** Standard

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 UFPI plant. 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, erection and bracing available from SBCA and Truss Plate Institute.



Job 24061831	Truss M4	Truss Type Truss	Qty 4	Ply 1	Job Reference (optional)
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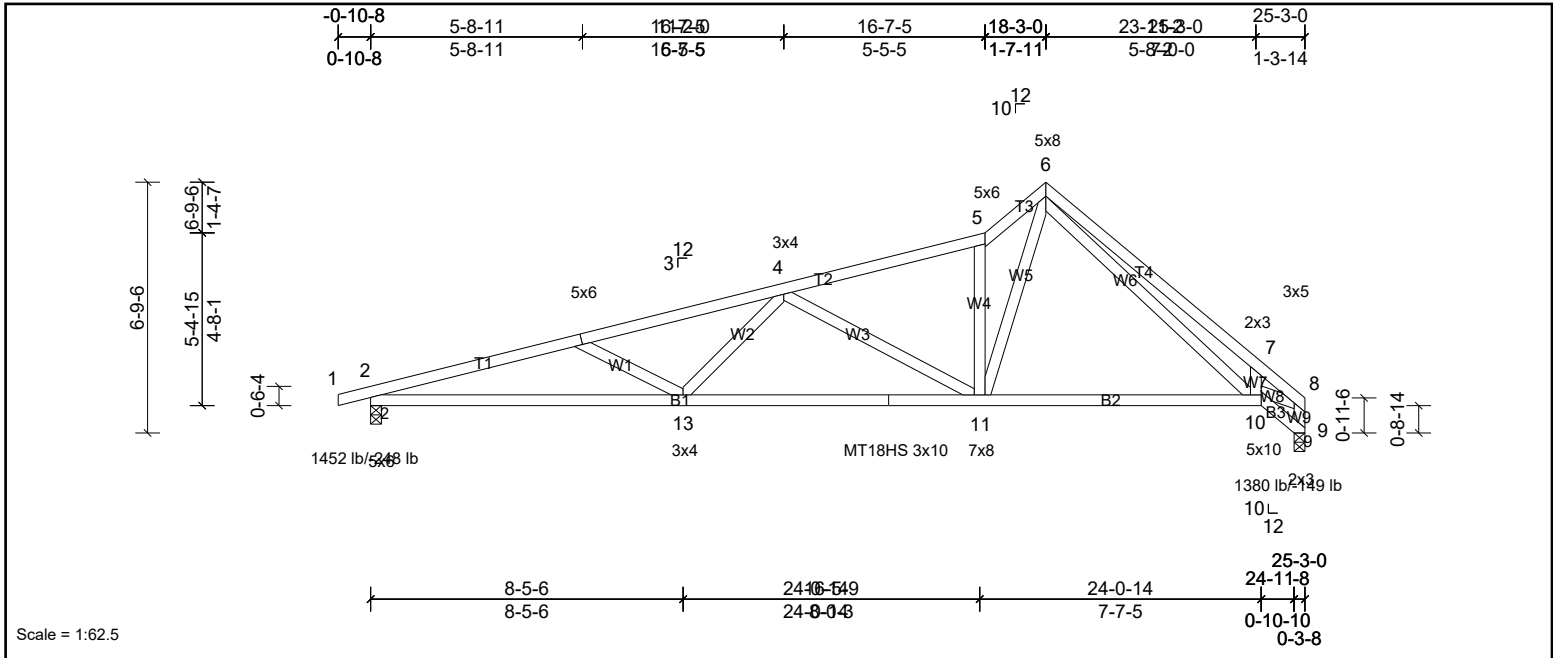


Plate Offsets (X, Y): [3:0-3-0,0-3-0], [11:0-4-0,0-1-12]

Loading	(psf)	Spacing	2-0-0	CSI	DEFLL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	30.0	Plate Grip DOL	1.15	TC	0.97	Vert(LL)	-0.24	11-13	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.76	Vert(CT)	-0.47	11-13	>641	180	MT18HS	244/190
BCLL	0.0*	Rep Stress Incr	YES	WB	0.91	Horz(CT)	0.16	9	n/a	n/a		
BCDL	15.0	Code	IRC2015/TPI2014	Matrix-MSH								Weight: 131 lb FT = 20%

LUMBER	BRACING
TOP CHORD 2x4 SP No.2 *Except* T1:2x4 SP No.1	TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD 2x4 SP SS *Except* B3:2x4 SP No.2, B2:2x4 SP No.1	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 2x4 SP No.3	

REACTIONS	(lb/size)
2=1452/0-3-8, (min. 0-1-11), 9=1380/0-3-8, (min. 0-1-8)	
Max Horiz	2=201 (LC 9)
Max Uplift	2=248 (LC 6), 9=149 (LC 10)

FORCES	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-17=-3838/623, 3-17=-3769/637, 3-4=-3411/496, 4-5=-1967/284, 5-6=-2418/427, 6-18=-2279/576, 18-19=-2283/553, 7-19=-2420/547, 7-8=-2159/258, 8-9=-1339/108
BOT CHORD	2-13=-654/3657, 12-13=-459/2880, 11-12=-459/2880, 11-20=-94/1228, 20-21=-94/1228, 10-21=-94/1228
WEBS	3-13=-467/222, 4-13=-9/592, 4-11=-1195/307, 5-11=-1239/289, 6-11=-363/2206, 6-10=-435/839, 7-10=-472/417, 8-10=-228/1692

- NOTES**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) -0-10-8 to 2-1-8, Interior (1) 2-1-8 to 16-7-5, Exterior (2) 16-7-5 to 21-3-0, Interior (1) 21-3-0 to 22-1-4, Exterior (2) 22-1-4 to 25-1-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 15.0psf.
  - Bearing at joint(s) 9 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 149 lb uplift at joint 9 and 248 lb uplift at joint 2.
  - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

**LOAD CASE(S)** Standard

Job 24061831	Truss PB1	Truss Type Truss	Qty 1	Ply 1	Job Reference (optional)
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UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Heidi Ouzts

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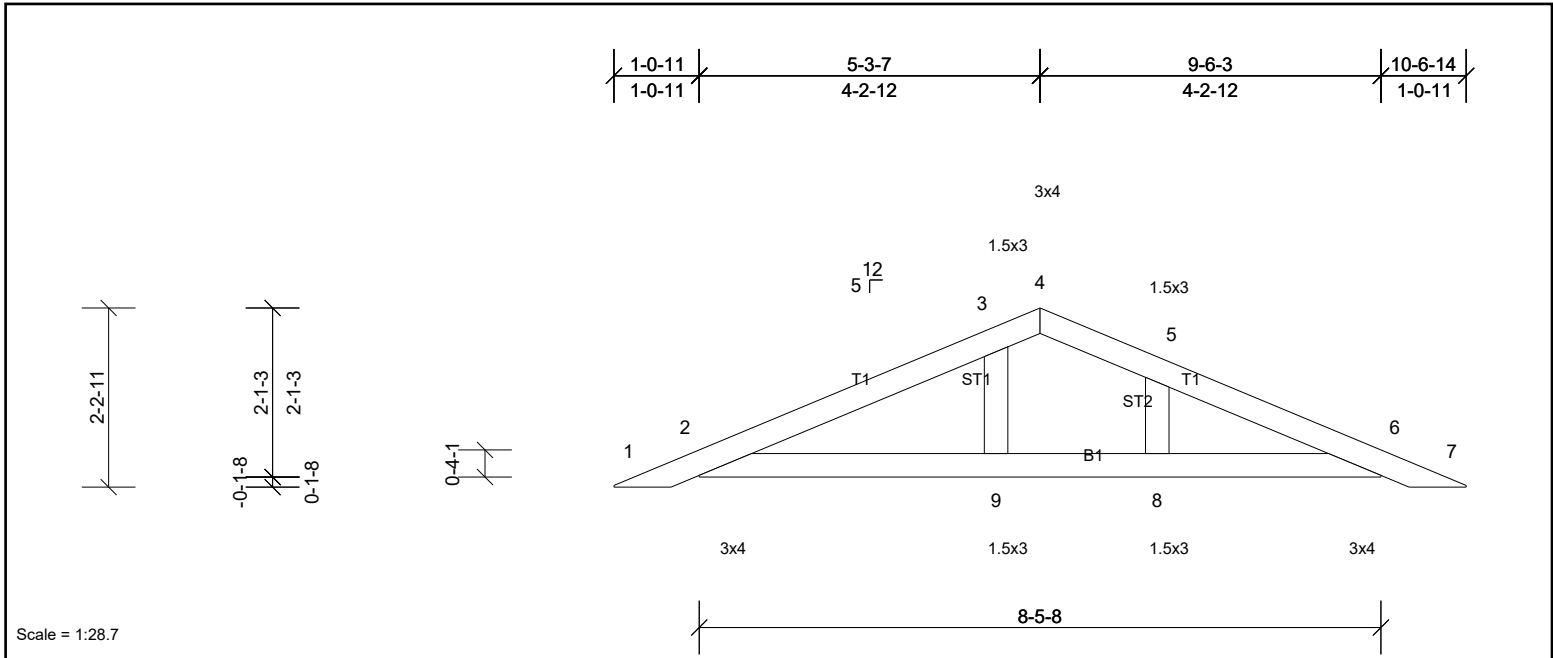


Plate Offsets (X, Y): [4:0-2-0,Edge]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	30.0	Plate Grip DOL	1.15	TC	0.18	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.16	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.06	Horz(CT)	0.00	6	n/a	n/a		
BCDL	15.0	Code	IRC2015/TPI2014	Matrix-MSH							Weight: 33 lb	FT = 20%

LUMBER		BRACING	
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 6-0-0 oc bracing.
OTHERS	2x4 SP No.3		

**REACTIONS**  
 All bearings 8-5-8.  
 (lb) - Max Horiz 2=39 (LC 14), 10=39 (LC 14)  
 Max Uplift All uplift 100 (lb) or less at joint(s) 2, 6, 8, 9, 10, 14  
 Max Grav All reactions 250 (lb) or less at joint(s) 2, 6, 10, 14 except 8=278 (LC 22), 9=401 (LC 1)

**FORCES**  
 (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
**WEBS**  
 3-9=-274/139

- NOTES**
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 3) Truss designed for wind loads in the plane of the truss only.
  - 4) Gable requires continuous bottom chord bearing.
  - 5) Gable studs spaced at 2-0-0 oc.
  - 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 7) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
  - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 6, 8, 9, 2, 6.
  - 9) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
  - 10) See standard piggyback truss connection detail for connection to base truss.

**LOAD CASE(S)** Standard

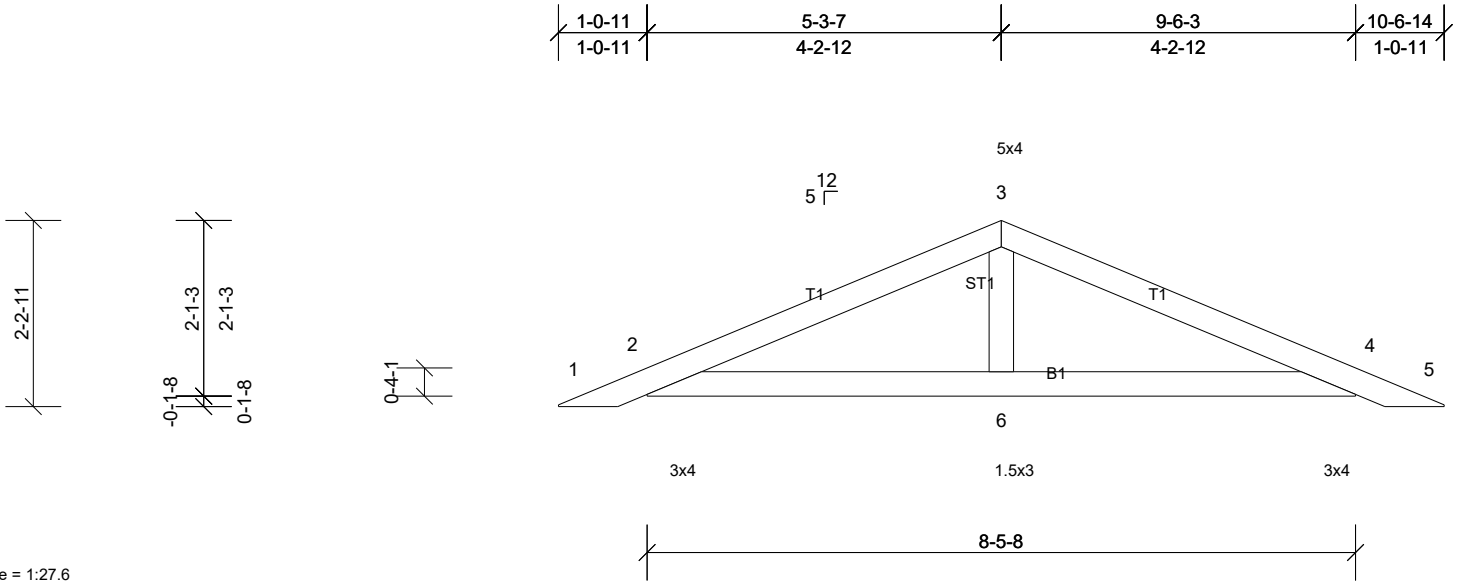
Job 24061831	Truss PB2	Truss Type Truss	Qty 5	Ply 1	Job Reference (optional)
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UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Heidi Ouzts

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Scale = 1:27.6

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	30.0	Plate Grip DOL	1.15	TC	0.36	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.17	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.05	Horiz(TL)	0.00	4	n/a	n/a		
BCDL	15.0	Code	IRC2015/TPI2014	Matrix-MSH							Weight: 32 lb	FT = 20%

LUMBER		BRACING	
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	
	All bearings 10-8-2.
(lb) - Max Horiz	1=39 (LC 10)
Max Uplift	All uplift 100 (lb) or less at joint(s) 6 except 1=-195 (LC 21), 2=-128 (LC 10), 4=-130 (LC 11), 5=-189 (LC 22), 7=-128 (LC 10), 10=-130 (LC 11)
Max Grav	All reactions 250 (lb) or less at joint(s) 1, 5 except 2=557 (LC 21), 4=531 (LC 22), 6=412 (LC 1), 7=557 (LC 21), 10=531 (LC 22)

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

- NOTES**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - Truss designed for wind loads in the plane of the truss only.
  - Gable requires continuous bottom chord bearing.
  - Gable studs spaced at 4-0-0 oc.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6 except (jt=lb) 1=194, 5=188, 2=128, 4=129, 2=128, 4=129.
  - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
  - See standard piggyback truss connection detail for connection to base truss.

**LOAD CASE(S)** Standard



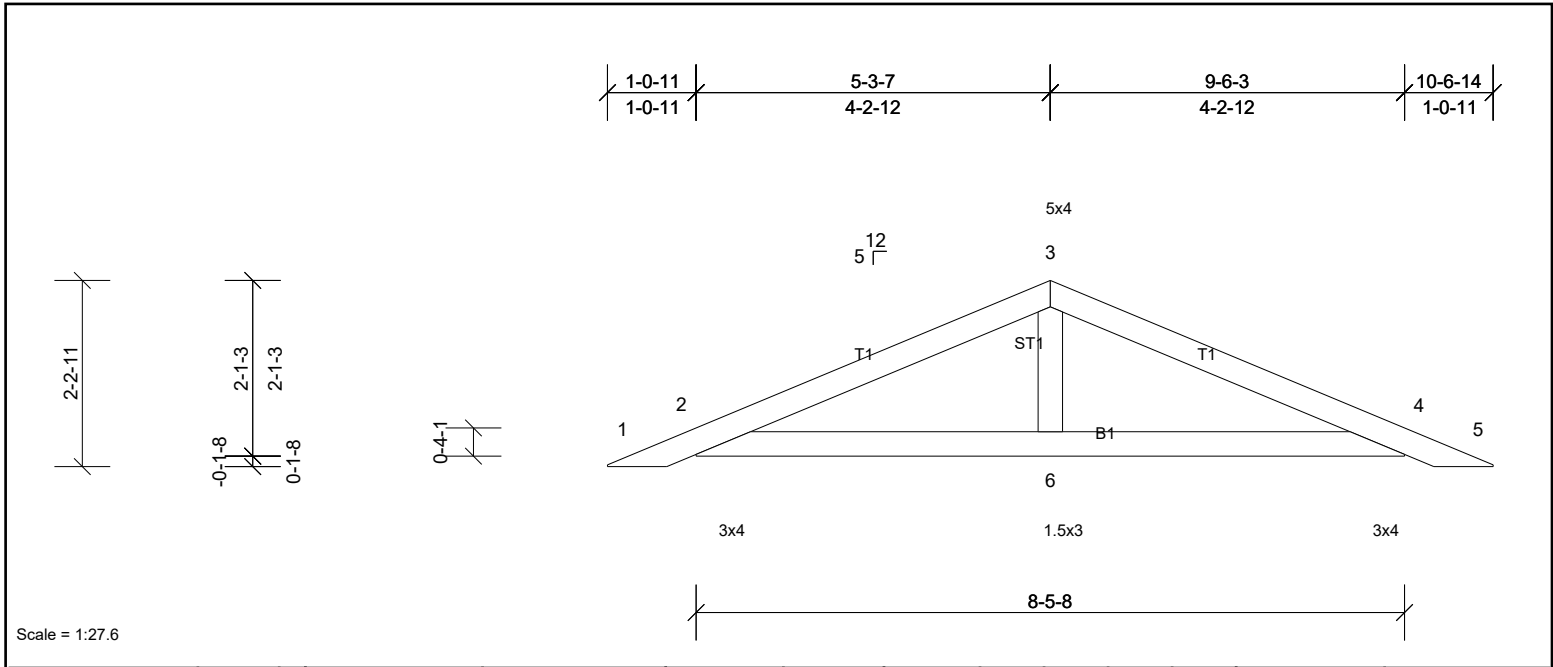
Job 24061831	Truss PB3	Truss Type Truss	Qty 1	Ply 4	Job Reference (optional)
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Loading	(psf)	Spacing		CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	30.0	Plate Grip DOL	2-0-0	TC	0.06	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.06	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.02	Horz(CT)	0.00	11	n/a	n/a		
BCDL	15.0	Code	IRC2015/TPI2014	Matrix-MSH							Weight: 127 lb	FT = 20%

LUMBER		BRACING	
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	
	All bearings 8-5-8.
(lb) - Max Horiz	2=-39 (LC 11), 7=-39 (LC 11)
Max Uplift	All uplift 100 (lb) or less at joint(s) 2, 4, 6, 7, 11
Max Grav	All reactions 250 (lb) or less at joint(s) except 2=280 (LC 21), 4=280 (LC 22), 6=489 (LC 1), 7=280 (LC 21), 11=280 (LC 22)

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

WEBS	
	3-6=-275/123

- NOTES**
- 4-ply truss to be connected together as follows:  
Top chords connected with 10d (0.131"x3") nails as follows: 2x4 - 1 row at 0-9-0 oc.  
Bottom chords connected with 10d (0.131"x3") nails 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.
  - Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TC DL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - Truss designed for wind loads in the plane of the truss only.
  - Gable requires continuous bottom chord bearing.
  - Gable studs spaced at 4-0-0 oc.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4, 6, 2, 4.
  - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
  - See standard piggyback truss connection detail for connection to base truss.

LOAD CASE(S)	
	Standard



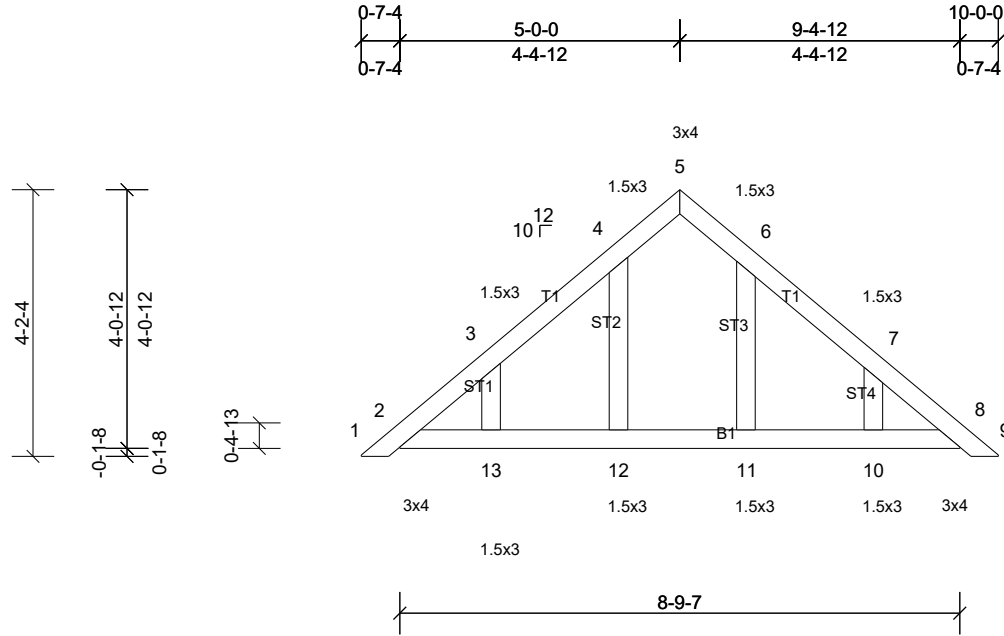
Job 24061831	Truss PB4	Truss Type Truss	Qty 1	Ply 2	Job Reference (optional)
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UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Heidi Ouzts

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Scale = 1:36.3

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

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	30.0	Plate Grip DOL	1.15	TC	0.03	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.02	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.02	Horz(CT)	0.00	8	n/a	n/a		
BCDL	15.0	Code	IRC2015/TPI2014	Matrix-MSH							Weight: 87 lb	FT = 20%

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

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

**REACTIONS** All bearings 8-9-7.  
 (lb) - Max Horiz 2--112 (LC 8), 14--112 (LC 8)  
 Max Uplift All uplift 100 (lb) or less at joint(s) 2, 8, 11, 12, 14, 18 except 10--110 (LC 11), 13--111 (LC 10)  
 Max Grav All reactions 250 (lb) or less at joint(s) 2, 8, 10, 11, 12, 13, 14, 18

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

**NOTES**

- 2-ply truss to be connected together as follows:  
 Top chords connected with 10d (0.131"x3") nails as follows: 2x4 - 1 row at 0-9-0 oc.  
 Bottom chords connected with 10d (0.131"x3") nails 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.
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp C; Enclosed;  
 MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only.
- All plates are 1.5x3 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 8, 11, 12, 2, 8 except (jt=lb) 10=109, 13=110.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- See standard piggyback truss connection detail for connection to base truss.

**LOAD CASE(S)** Standard

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 UFPI plant. 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, erection and bracing available from SBCA and Truss Plate Institute.



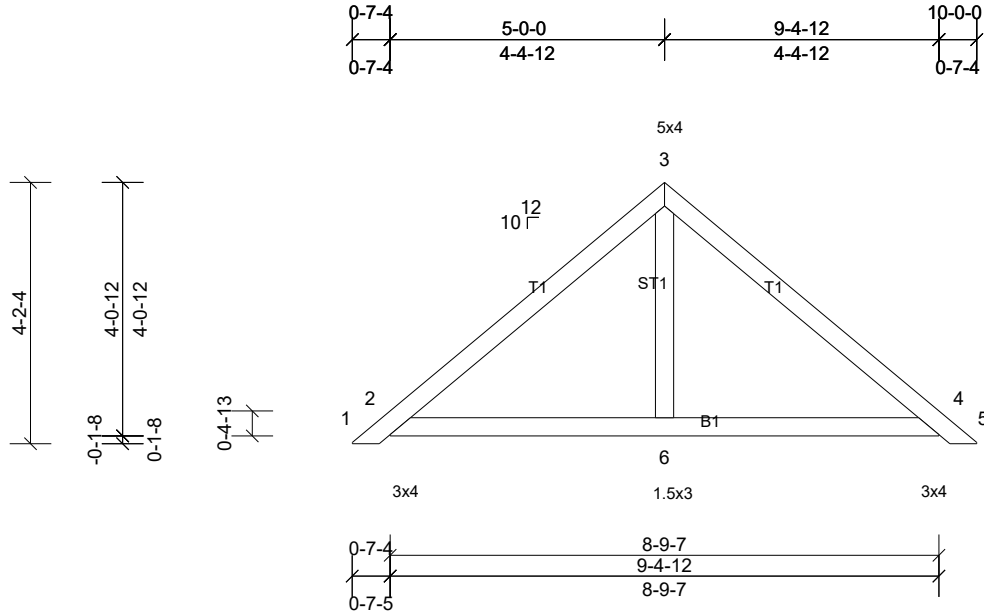
Job 24061831	Truss PB5	Truss Type Truss	Qty 10	Ply 1	Job Reference (optional)
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Scale = 1:37.1

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	30.0	Plate Grip DOL	1.15	TC	0.47	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.17	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.06	Horiz(TL)	0.00	4	n/a	n/a		
BCDL	15.0	Code	IRC2015/TPI2014	Matrix-MSH							Weight: 38 lb	FT = 20%

LUMBER	BRACING
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
All bearings 10-0-10.
(lb) - Max Horiz 1=112 (LC 7)
Max Uplift All uplift 100 (lb) or less at joint(s) except 1=-532 (LC 17), 2=-360 (LC 10), 4=-327 (LC 11), 5=-468 (LC 18), 7=-360 (LC 10), 10=-327 (LC 11)
Max Grav All reactions 250 (lb) or less at joint(s) 5 except 1=294 (LC 10), 2=870 (LC 17), 4=809 (LC 18), 6=340 (LC 1), 7=870 (LC 17), 10=809 (LC 18)

FORCES
(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-245/431, 4-5=-154/325

- NOTES**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TC DL=6.0psf; BC DL=6.0psf; h=35ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - Truss designed for wind loads in the plane of the truss only.
  - Gable requires continuous bottom chord bearing.
  - Gable studs spaced at 4-0-0 oc.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 532 lb uplift at joint 1, 467 lb uplift at joint 5, 360 lb uplift at joint 2, 326 lb uplift at joint 4, 360 lb uplift at joint 2 and 326 lb uplift at joint 4.
  - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
  - See standard piggyback truss connection detail for connection to base truss.

**LOAD CASE(S)** Standard

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 UFPI plant. 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, erection and bracing available from SBCA and Truss Plate Institute.



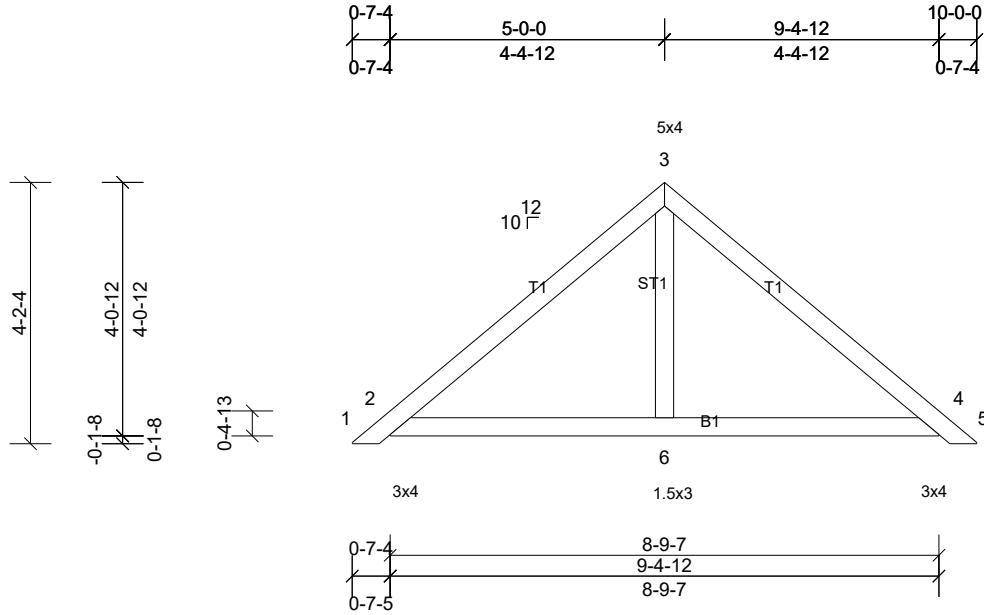
Job 24061831	Truss PB6	Truss Type Truss	Qty 5	Ply 2	Job Reference (optional)
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UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Heidi Ouzts

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Scale = 1:37.1

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	30.0	Plate Grip DOL	1.15	TC	0.22	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.09	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.02	Horiz(TL)	0.00	4	n/a	n/a		
BCDL	15.0	Code	IRC2015/TPI2014	Matrix-MSH							Weight: 75 lb	FT = 20%

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

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

**REACTIONS** All bearings 10-0-10.  
(lb) - Max Horiz 1=-112 (LC 8)  
Max Uplift All uplift 100 (lb) or less at joint(s) except 1=-511 (LC 17), 2=-350 (LC 10), 4=-316 (LC 11), 5=-447 (LC 18), 7=-350 (LC 10), 10=-316 (LC 11)  
Max Grav All reactions 250 (lb) or less at joint(s) 5 except 1=284 (LC 10), 2=846 (LC 17), 4=785 (LC 18), 6=347 (LC 1), 7=846 (LC 17), 10=785 (LC 18)

**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 1-2=-239/417, 4-5=-147/312

- NOTES**
- 2-ply truss to be connected together as follows:  
Top chords connected with 10d (0.131"x3") nails as follows: 2x4 - 1 row at 0-9-0 oc.  
Bottom chords connected with 10d (0.131"x3") nails 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.
  - Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - Truss designed for wind loads in the plane of the truss only.
  - Gable requires continuous bottom chord bearing.
  - Gable studs spaced at 4-0-0 oc.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 511 lb uplift at joint 1, 447 lb uplift at joint 5, 350 lb uplift at joint 2, 316 lb uplift at joint 4, 350 lb uplift at joint 2 and 316 lb uplift at joint 5.
  - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
  - See standard piggyback truss connection detail for connection to base truss.

**LOAD CASE(S)** Standard

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 UFPI plant. 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, erection and bracing available from SBCA and Truss Plate Institute.



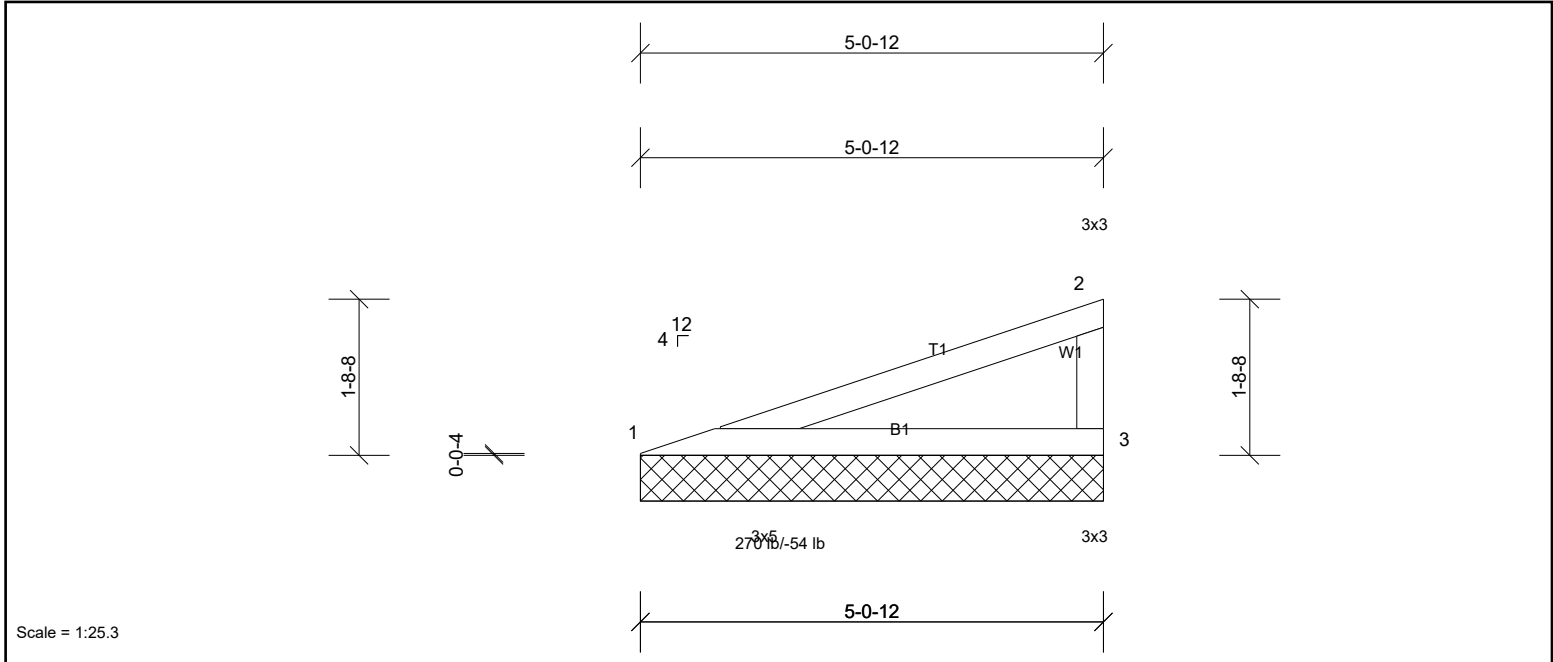
Job 24061831	Truss V1	Truss Type Truss	Qty 1	Ply 1	Job Reference (optional)
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UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Heidi Ouzts

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Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	30.0	Plate Grip DOL	1.15	TC	0.33	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.44	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horiz(TL)	0.01	3	n/a	n/a		
BCDL	15.0	Code	IRC2015/TPI2014	Matrix-MSH							Weight: 16 lb	FT = 20%

LUMBER		BRACING	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 5-1-8 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)	1=270/5-0-12, (min. 0-1-8), 3=270/5-0-12, (min. 0-1-8)
Max Horiz	1=69 (LC 7)	
Max Uplift	1=-44 (LC 6), 3=-54 (LC 10)	

FORCES	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	1-2=-602/211
BOT CHORD	1-3=-224/562

- NOTES**
- 1) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 2) Gable requires continuous bottom chord bearing.
  - 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 3-06-00 tall by 2-00-00 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 44 lb uplift at joint 1 and 54 lb uplift at joint 3.
  - 6) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S)	Standard

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 UFPI plant. 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, erection and bracing available from SBCA and Truss Plate Institute.



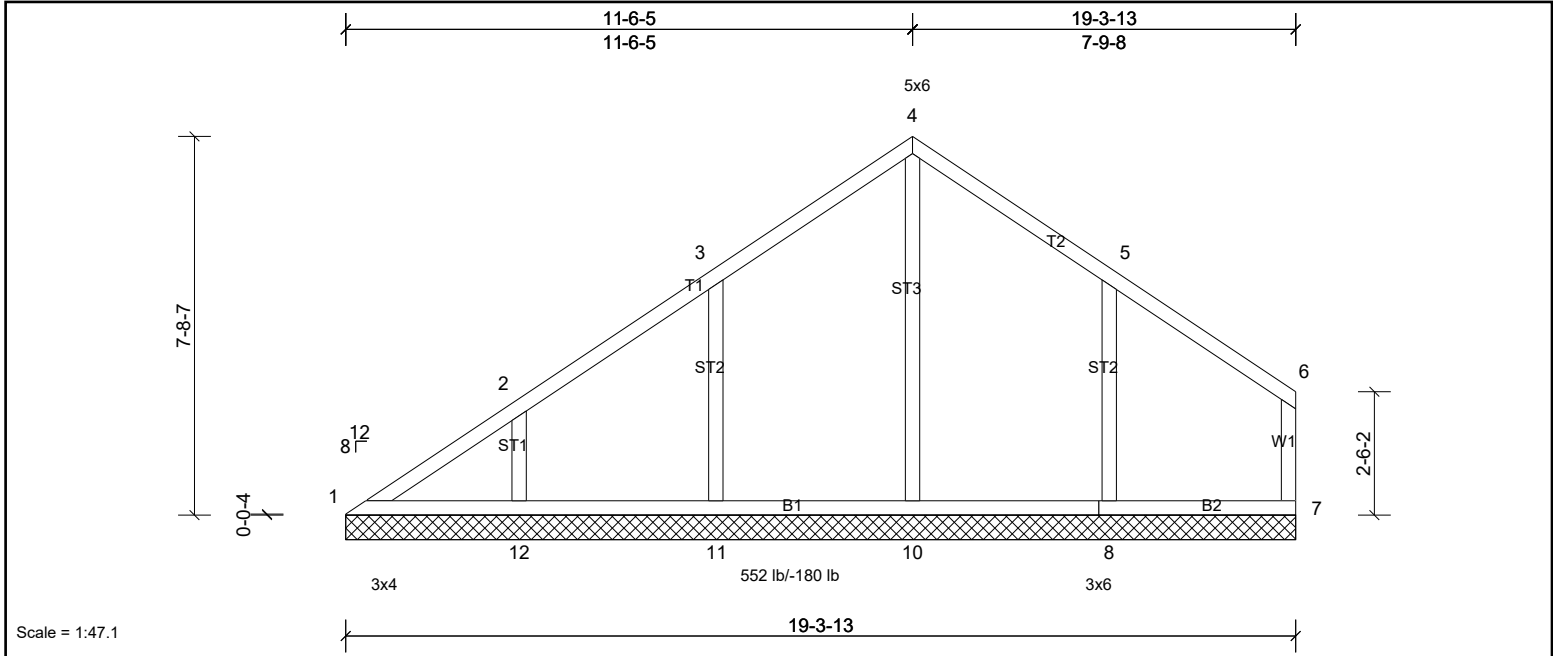
Job 24061831	Truss V2	Truss Type Truss	Qty 1	Ply 1	Job Reference (optional)
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Scale = 1:47.1

Plate Offsets (X, Y): [9:0-1-13,0-1-8]

Loading	(psf)	Spacing	2-0-0	CSI	DEFLL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	30.0	Plate Grip DOL	1.15	TC	0.29	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.21	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.31	Horiz(TL)	0.00	7	n/a	n/a		
BCDL	15.0	Code	IRC2015/TPI2014	Matrix-MSH							Weight: 92 lb	FT = 20%

LUMBER		BRACING	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except 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		
OTHERS	2x4 SP No.3		

**REACTIONS** All bearings 19-3-13.  
 (lb) - Max Horiz 1=244 (LC 7)  
 Max Uplift All uplift 100 (lb) or less at joint(s) 1, 7, 10 except 8=-181 (LC 11), 11=-174 (LC 10), 12=-148 (LC 10)  
 Max Grav All reactions 250 (lb) or less at joint(s) 1, 7 except 8=541 (LC 18), 10=552 (LC 17), 11=529 (LC 17), 12=459 (LC 1)

**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 1-15=-321/205, 4-17=-222/250  
 WEBS 4-10=-295/80, 3-11=-356/225, 2-12=-313/181, 5-8=-363/230

- NOTES**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-0-6 to 3-0-6, Interior (1) 3-0-6 to 8-6-11, Exterior (2) 8-6-11 to 14-6-11, Interior (1) 14-6-11 to 16-2-7, Exterior (2) 16-2-7 to 19-2-7 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - All plates are 1.5x3 MT20 unless otherwise indicated.
  - 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 15.0psf.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 7, 10 except (jt=lb) 11=174, 12=148, 8=180.
  - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

**LOAD CASE(S)** Standard

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 UFPI plant. 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, erection and bracing available from SBCA and Truss Plate Institute.



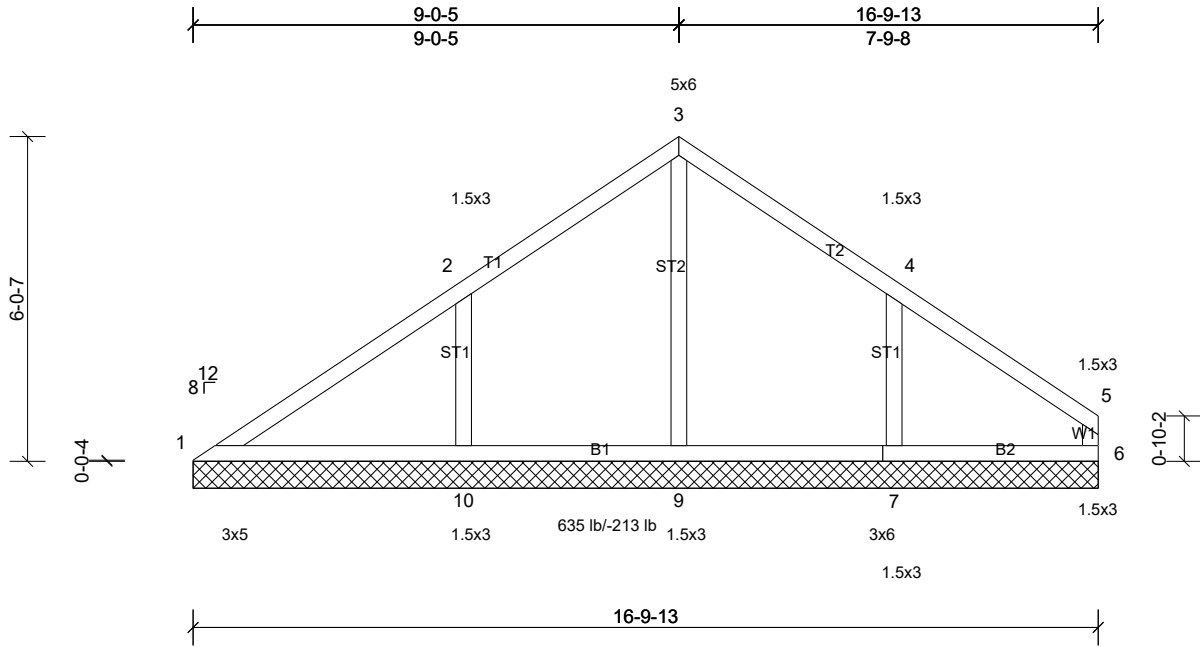
Job 24061831	Truss V3	Truss Type Truss	Qty 1	Ply 1	Job Reference (optional)
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Scale = 1:43

Plate Offsets (X, Y): [8:0-1-13,0-1-8]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	30.0	Plate Grip DOL	1.15	TC	0.40	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.33	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.18	Horiz(TL)	0.01	6	n/a	n/a		
BCDL	15.0	Code	IRC2015/TPI2014	Matrix-MSH							Weight: 72 lb	FT = 20%

LUMBER		BRACING	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS	2x4 SP No.3		
OTHERS	2x4 SP No.3		

**REACTIONS** All bearings 16-9-13.  
 (lb) - Max Horiz 1=173 (LC 7)  
 Max Uplift All uplift 100 (lb) or less at joint(s) 1, 6 except 7=193 (LC 11), 10=213 (LC 10)  
 Max Grav All reactions 250 (lb) or less at joint(s) 1, 6 except 7=539 (LC 18), 9=503 (LC 17), 10=635 (LC 17)

**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 1-13=-341/159  
 BOT CHORD 1-10=-67/265  
 WEBS 3-9=-283/39, 2-10=-415/241, 4-7=-372/232

- NOTES**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-0-6 to 3-0-6, Interior (1) 3-0-6 to 6-0-11, Exterior (2) 6-0-11 to 12-0-11, Interior (1) 12-0-11 to 13-8-7, Exterior (2) 13-8-7 to 16-8-7 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 15.0psf.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 6 except (jt=lb) 10=213, 7=192.
  - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

**LOAD CASE(S)** Standard

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 UFPI plant. 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, erection and bracing available from SBCA and Truss Plate Institute.



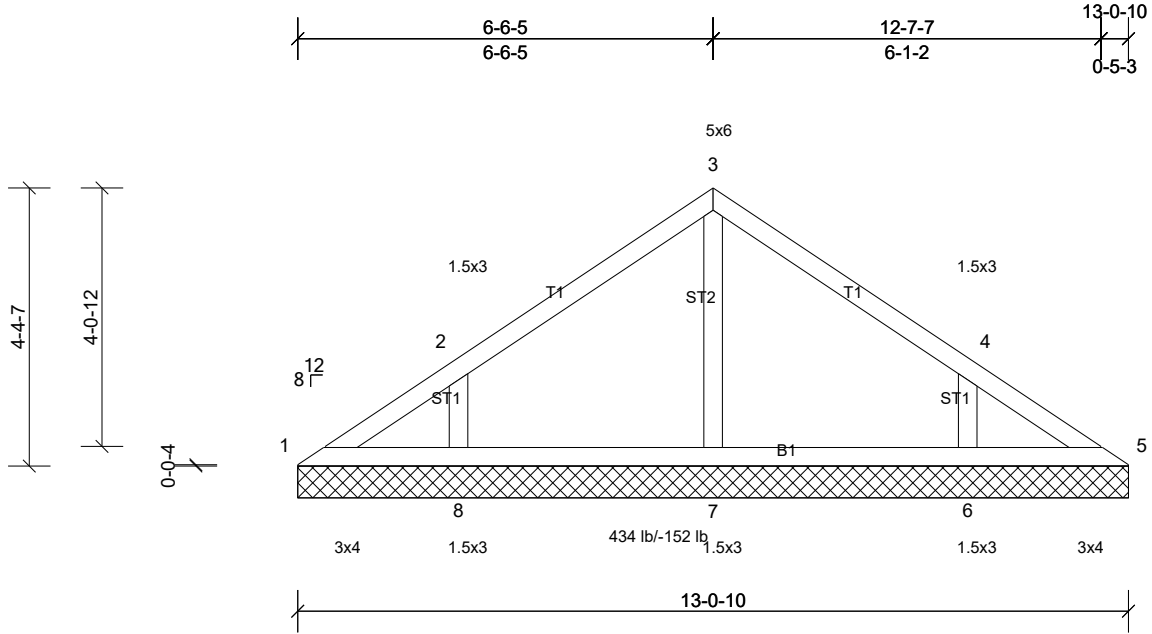
Job 24061831	Truss V4	Truss Type Truss	Qty 1	Ply 1	Job Reference (optional)
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Scale = 1:36.4

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	30.0	Plate Grip DOL	1.15	TC	0.26	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.15	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.09	Horiz(TL)	0.00	5	n/a	n/a		
BCDL	15.0	Code	IRC2015/TPI2014	Matrix-MSH							Weight: 50 lb	FT = 20%

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

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

**REACTIONS**  
 All bearings 13'-0".  
 (lb) - Max Horiz 1=-118 (LC 6)  
 Max Uplift All uplift 100 (lb) or less at joint(s) 1 except 6=-150 (LC 11), 8=-153 (LC 10)  
 Max Grav All reactions 250 (lb) or less at joint(s) 1, 5 except 6=433 (LC 22), 7=386 (LC 1), 8=435 (LC 17)

**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
**WEBS** 3-7=-261/21, 2-8=-328/199, 4-6=-327/198

- NOTES**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TC DL=6.0psf; BC DL=6.0psf; h=35ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-0-6 to 3-0-6, Interior (1) 3-0-6 to 3-6-11, Exterior (2) 3-6-11 to 9-6-11, Interior (1) 9-6-11 to 10-1-0, Exterior (2) 10-1-0 to 13-1-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 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'-0" tall by 2'-0" wide will fit between the bottom chord and any other members.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1 except (jt=lb) 8=152, 6=150.
  - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

**LOAD CASE(S)** Standard

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 UFPI plant. 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, erection and bracing available from SBCA and Truss Plate Institute.





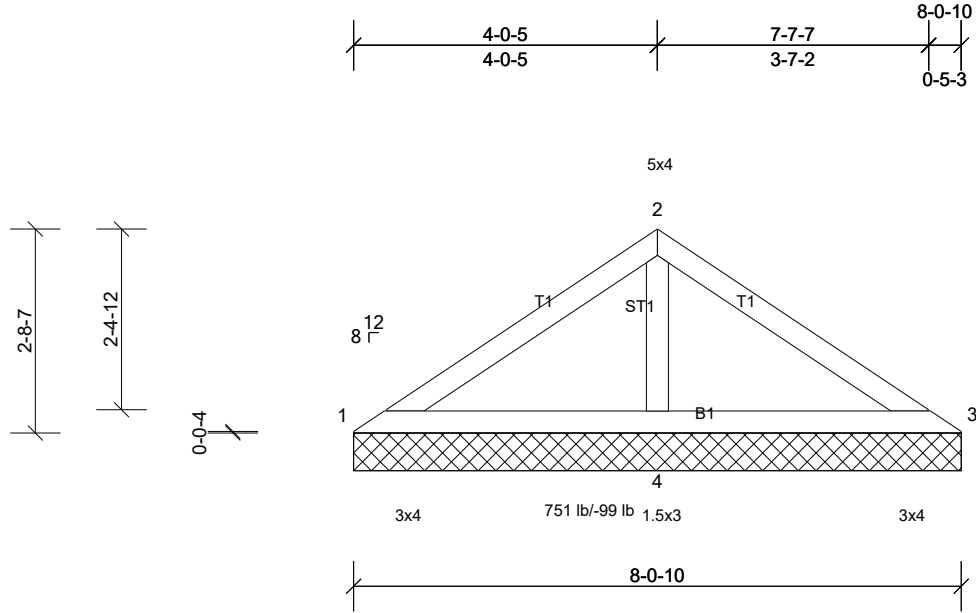
Job 24061831	Truss V5	Truss Type Truss	Qty 1	Ply 1	Job Reference (optional)
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Scale = 1:30.7

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	30.0	Plate Grip DOL	1.15	TC	0.23	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.24	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.12	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	15.0	Code	IRC2015/TPI2014	Matrix-MSH							Weight: 28 lb	FT = 20%

LUMBER		BRACING	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 8-0-10 oc purlins.
BOT CHORD	2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.
OTHERS	2x4 SP No.3		
<b>REACTIONS</b>	(lb/size)	1=67/8-0-10, (min. 0-1-8), 3=67/8-0-10, (min. 0-1-8), 4=751/8-0-10, (min. 0-1-8)	
	Max Horiz	1=-71 (LC 6)	
	Max Uplift	1=-12 (LC 22), 3=-16 (LC 6), 4=-99 (LC 10)	
	Max Grav	1=109 (LC 21), 3=109 (LC 22), 4=751 (LC 1)	
<b>FORCES</b>	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.		
TOP CHORD	1-2=-105/314, 2-3=-64/314		
WEBS	2-4=-544/170		

- NOTES**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 12 lb uplift at joint 1, 16 lb uplift at joint 3 and 99 lb uplift at joint 4.
  - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

**LOAD CASE(S)** Standard



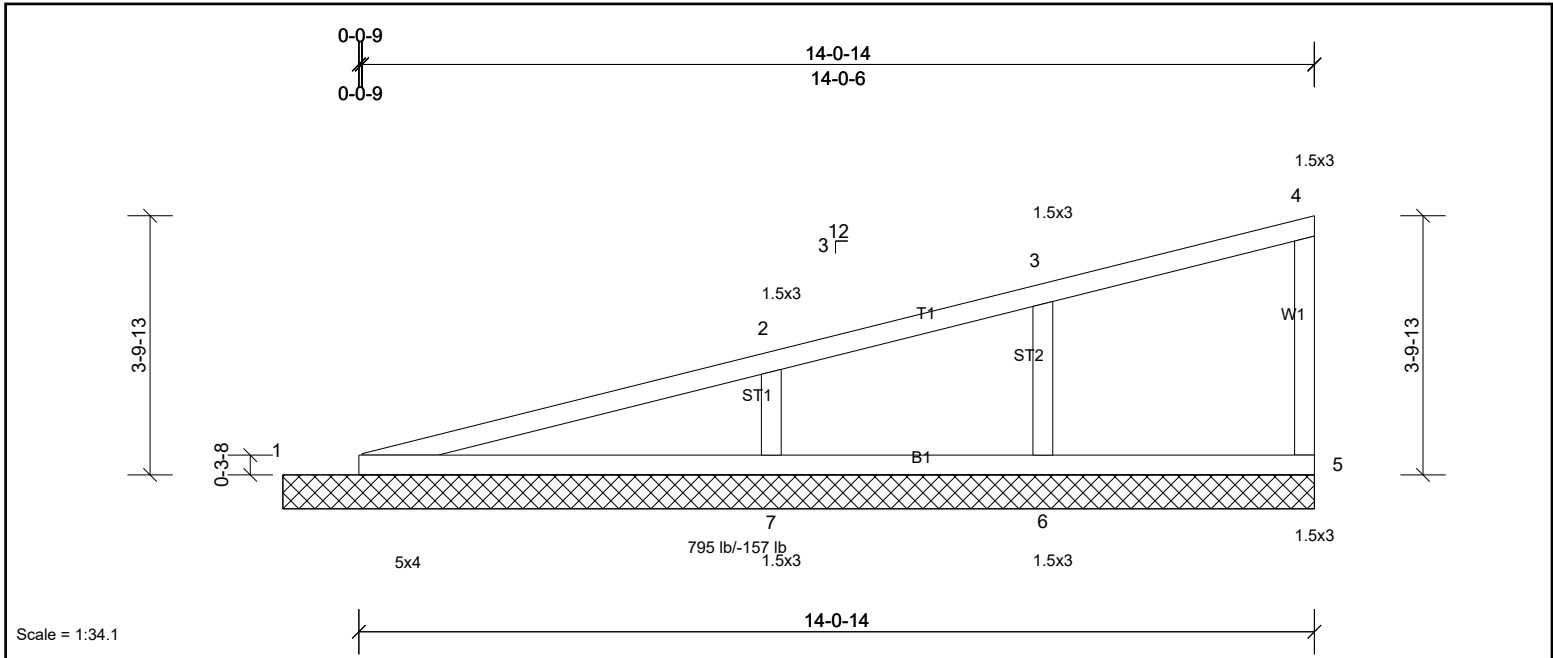
Job 24061831	Truss V6	Truss Type Truss	Qty 1	Ply 1	Job Reference (optional)
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Scale = 1:34.1

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

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	30.0	Plate Grip DOL	1.15	TC	0.65	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.78	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.10	Horiz(TL)	0.02	5	n/a	n/a		
BCDL	15.0	Code	IRC2015/TPI2014	Matrix-MSH							Weight: 52 lb	FT = 20%

LUMBER		BRACING	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except 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		
OTHERS	2x4 SP No.3		

REACTIONS	
All bearings	15-2-5.
(lb) - Max Horiz	1=165 (LC 7)
Max Uplift	All uplift 100 (lb) or less at joint(s) 1, 5, 6 except 7=157 (LC 10)
Max Grav	All reactions 250 (lb) or less at joint(s) 5 except 1=328 (LC 1), 6=334 (LC 1), 7=795 (LC 1)

FORCES	
(lb) - Max. Comp./Max. Ten.	- All forces 250 (lb) or less except when shown.
TOP CHORD	1-10=-914/145
BOT CHORD	1-7=-158/878
WEBS	3-6=-272/129, 2-7=-506/182

- NOTES**
- 1) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-1-0 to 3-1-0, Interior (1) 3-1-0 to 12-1-9, Exterior (2) 12-1-9 to 15-1-9 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 2) Gable requires continuous bottom chord bearing.
  - 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
  - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5, 6 except (jt=lb) 7=157.
  - 6) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 1.
  - 7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

**LOAD CASE(S)** Standard

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 UFPI plant. 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, erection and bracing available from SBCA and Truss Plate Institute.



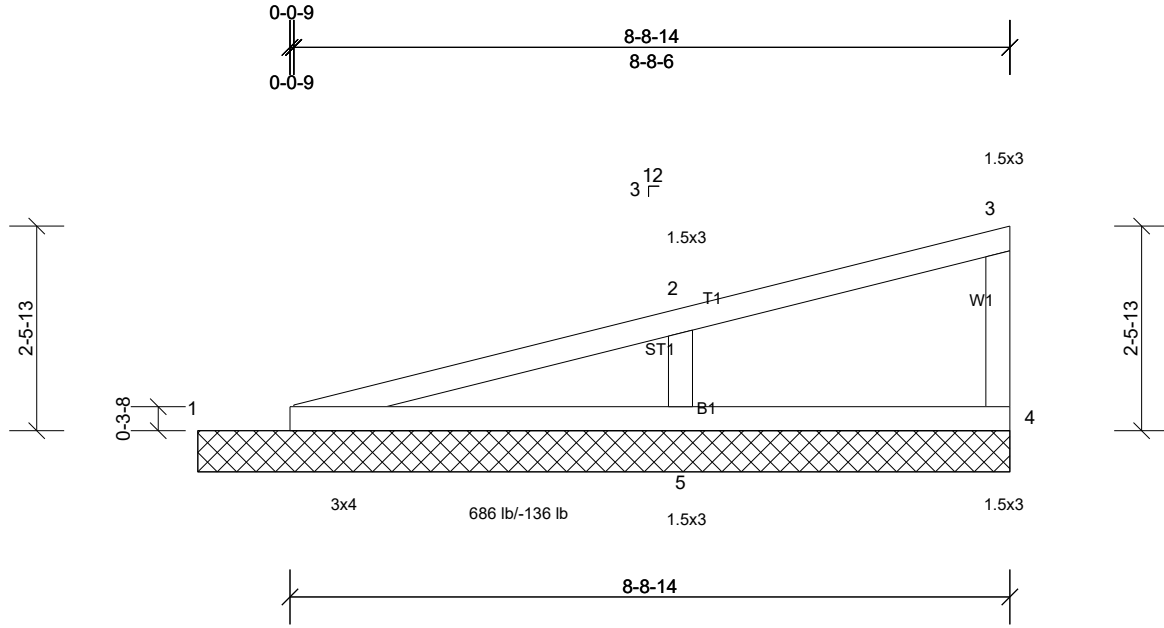
Job 24061831	Truss V7	Truss Type Truss	Qty 1	Ply 1	Job Reference (optional)
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UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Heidi Ouzts

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Scale = 1:28.1

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	30.0	Plate Grip DOL	1.15	TC	0.45	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.46	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.09	Horiz(TL)	0.01	5	n/a	n/a		
BCDL	15.0	Code	IRC2015/TPI2014	Matrix-MSH							Weight: 31 lb	FT = 20%

LUMBER		BRACING	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS	2x4 SP No.3		
OTHERS	2x4 SP No.3		

**REACTIONS**

(lb/size)	1=262/9-10-5, (min. 0-1-8), 4=120/9-10-5, (min. 0-1-8), 5=686/9-10-5, (min. 0-1-8)
Max Horiz	1=103 (LC 7)
Max Uplift	1=-37 (LC 6), 4=-20 (LC 10), 5=-136 (LC 10)

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

TOP CHORD	1-8=-661/138
BOT CHORD	1-5=-151/632
WEBS	2-5=-445/199

- NOTES**
- 1) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-1-0 to 3-1-0, Interior (1) 3-1-0 to 5-6-11, Exterior (2) 5-6-11 to 9-9-9 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 2) Gable requires continuous bottom chord bearing.
  - 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 3-06-00 tall by 2-00-00 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 37 lb uplift at joint 1, 20 lb uplift at joint 4 and 136 lb uplift at joint 5.
  - 6) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 1.
  - 7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

**LOAD CASE(S)** Standard

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 UFPI plant. 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, erection and bracing available from SBCA and Truss Plate Institute.



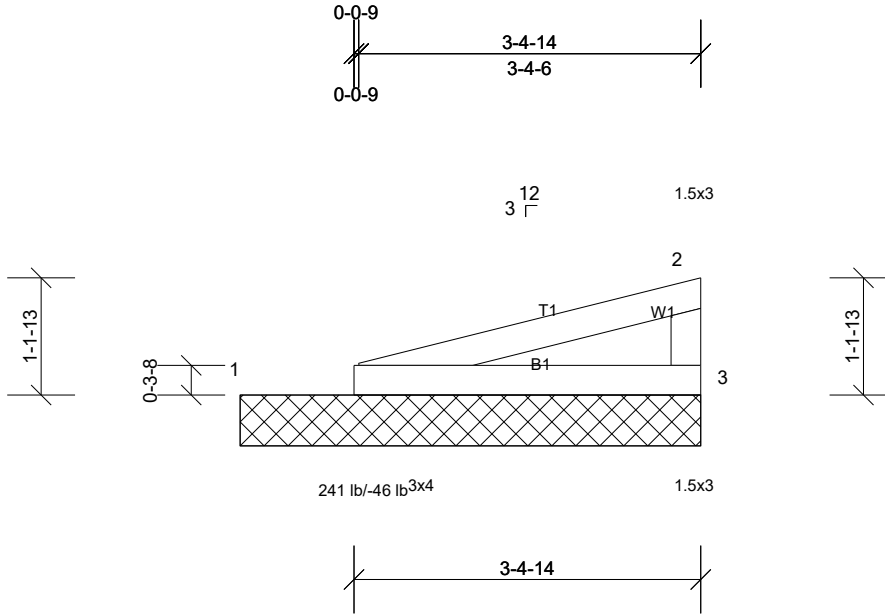
Job 24061831	Truss V8	Truss Type Truss	Qty 1	Ply 1	Job Reference (optional)
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UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Heidi Ouzts

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Scale = 1:22.7

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	30.0	Plate Grip DOL	1.15	TC	0.27	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.35	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	15.0	Code	IRC2015/TPI2014	Matrix-MP							Weight: 11 lb	FT = 20%

**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 4-6-5 oc purlins, except end verticals.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS**

(lb/size) 1=241/4-6-5, (min. 0-1-8), 3=241/4-6-5, (min. 0-1-8)  
 Max Horiz 1=42 (LC 7)  
 Max Uplift 1=-41 (LC 6), 3=-46 (LC 10)

**FORCES**

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

TOP CHORD 1-2=-579/209  
 BOT CHORD 1-3=-216/553

**NOTES**

- 1) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Gable requires continuous bottom chord bearing.
- 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 3-06-00 tall by 2-00-00 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 41 lb uplift at joint 1 and 46 lb uplift at joint 3.
- 6) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 1.
- 7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

**LOAD CASE(S)** Standard

