

Job 72514388REP1 72510073REP3	Truss A6	Truss Type Truss	Qty 3	Ply 1	LGI HOMESICARY RF Job Reference (optional)
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UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, JMP

Run: 8.83 S Apr 11 2025 Print: 8.830 S Apr 11 2025 MiTek Industries, Inc. Tue Jun 10 16:38:16
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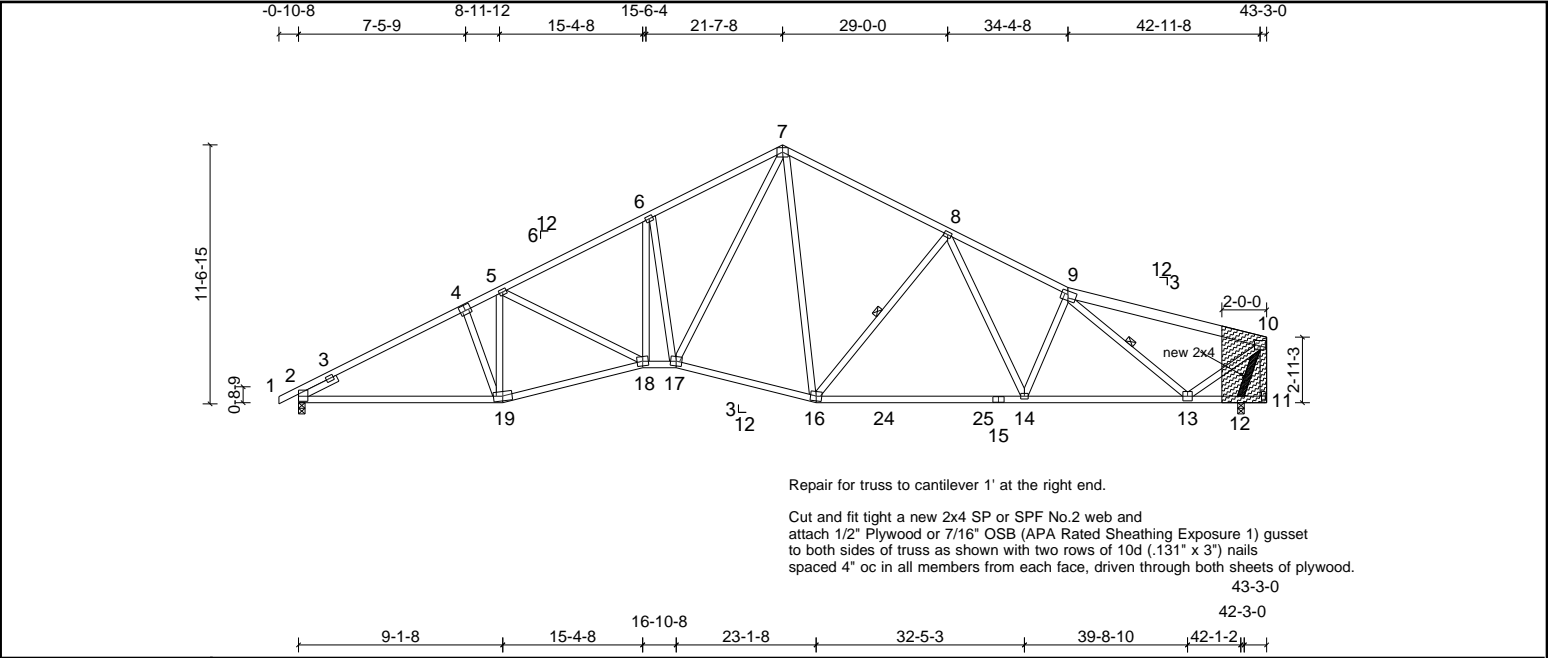
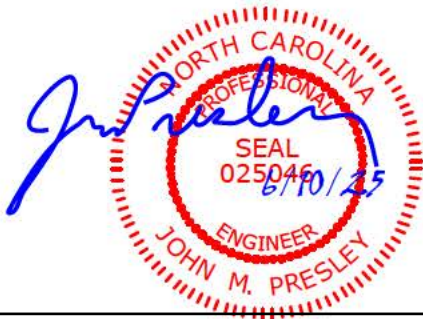


Plate Offsets (X, Y): [4:0-3-0,0-3-0], [9:0-3-8,0-2-0], [10:0-3-0,0-3-0]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.90	Vert(LL)	-0.35	14-16	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.85	Vert(CT)	-0.66	14-16	>765	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.99	Horz(CT)	0.16	12	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MSH							Weight: 279 lb	FT = 20%

LUMBER		BRACING	
TOP CHORD	2x4 SP No.1 *Except* 9-10:2x6 SP No.2, 4-7:2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 2-1-8 oc purlins, except end verticals.
BOT CHORD	2x4 SP No.1 *Except* 19-18,18-17,17-16:2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS	2x4 SP No.3 *Except* 11-10:2x4 SP No.2	WEBS	1 Row at midpt 8-16, 9-13
SLIDER	Left 2x4 SP No.3 -- 1-11-0		
REACTIONS	(lb/size) 2=1734/0-3-8, (min. 0-2-1), 12=1767/0-3-8, (min. 0-2-1) Max Horiz 2=208 (LC 14) Max Uplift 2=252 (LC 10), 12=243 (LC 11)		
FORCES	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.		
TOP CHORD	2-3=-1141/0, 3-4=-2881/788, 4-5=-2722/804, 5-6=-2921/834, 6-7=-2698/910, 7-8=-1969/695, 8-9=-2470/749, 9-10=-1043/287		
BOT CHORD	2-19=-605/2486, 18-19=-580/2536, 17-18=-470/2515, 16-17=-216/1701, 16-24=-407/2028, 24-25=-407/2028, 15-25=-407/2028, 14-15=-407/2028, 13-14=-484/2193, 12-13=-595/183		
WEBS	5-19=-422/112, 7-17=-443/1581, 8-16=-623/314, 7-16=-127/379, 8-14=-40/402, 6-18=-131/634, 6-17=-948/393, 9-13=-1685/475, 10-13=-397/1937, 10-12=-1733/472		

- NOTES (8)**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp B; 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
 - All additional member connections shall be provided by others for forces as 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 = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 252 lb uplift at joint 2 and 243 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.
 - This repair has been prepared based on information and use conditions supplied by client. Designer has made a good faith effort to outline damage and repair conditions as reported by client. When actual field conditions do not approximate those indicated on this drawing, client shall immediately inform the engineer and refrain from applying the repair.



Job 72514388REP1 72510073REP3	Truss A7	Truss Type Truss	Qty 4	Ply 1	LGI HOMESICARY RF Job Reference (optional)
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UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, JMP

Run: 8.83 S Apr 11 2025 Print: 8.830 S Apr 11 2025 MiTek Industries, Inc. Tue Jun 10 16:38:17
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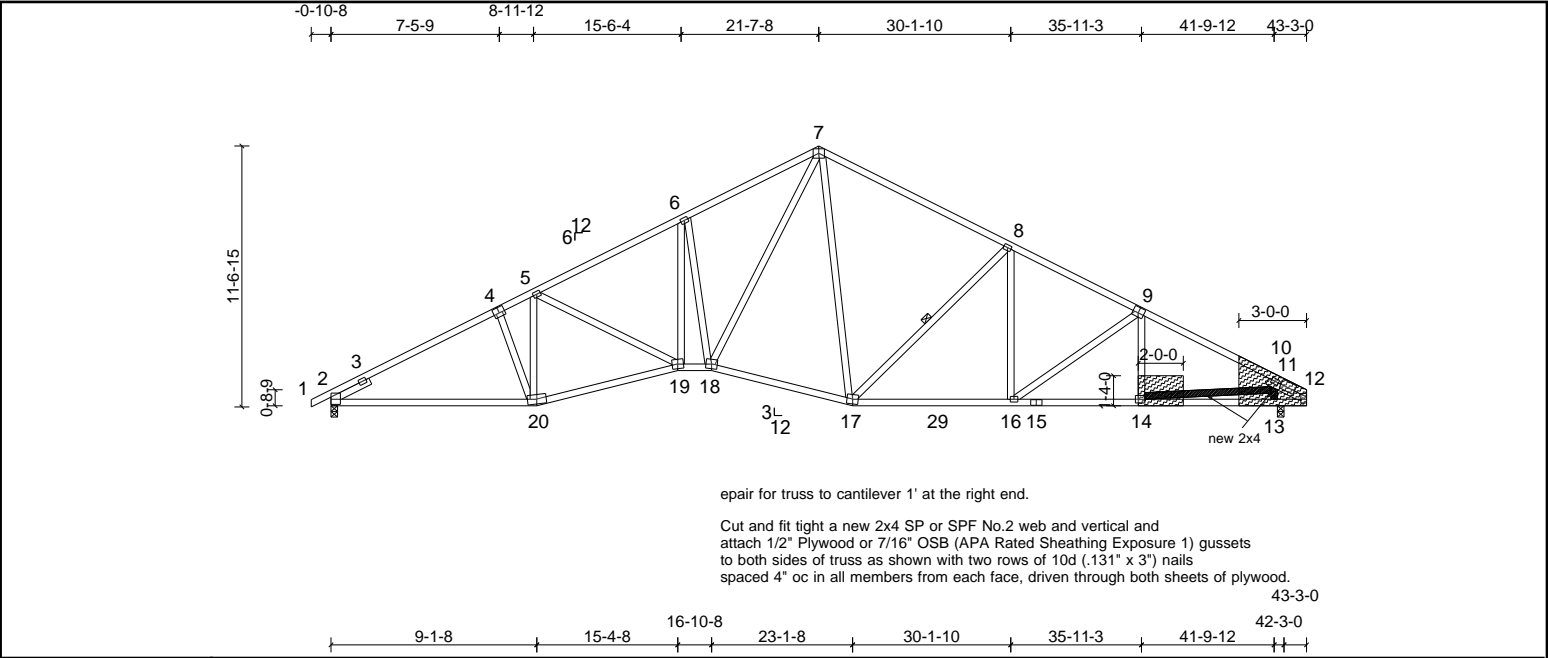
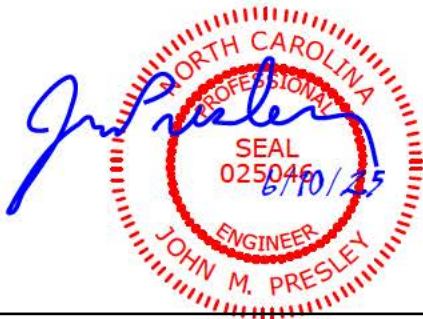


Plate Offsets (X, Y): [4:0-3-0,0-3-0], [9:0-3-0,0-3-0], [11:0-4-0,0-3-0], [12:Edge,0-0-1], [14:0-2-0,0-1-8]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.89	Vert(LL)	-0.19	19-20	>999	240	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.78	Vert(CT)	-0.41	19-20	>999	180	
BCLL	0.0*	Rep Stress Incr	YES	WB	0.96	Horz(CT)	0.15	13	n/a	n/a	
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MSH							
										Weight: 268 lb	FT = 20%

LUMBER				BRACING			
TOP CHORD	2x4 SP SS *Except* 1-4:2x4 SP No.1			TOP CHORD	Structural wood sheathing directly applied or 2-2-0 oc purlins.		
BOT CHORD	2x4 SP No.2 *Except* 2-20,15-12:2x4 SP No.1			BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.		
WEBS	2x4 SP No.3			WEBS	1 Row at midpt	8-17	
SLIDER	Left 2x4 SP No.3 -- 1-11-0, Right 2x4 SP No.3 -- 1-11-0						
REACTIONS							
	(lb/size)	2=1724/0-3-8, (min. 0-2-1), 13=1789/0-3-8, (min. 0-2-2)					
	Max Horiz	2=204 (LC 10)					
	Max Uplift	2=251 (LC 10), 13=243 (LC 11)					
FORCES							
	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.						
TOP CHORD	2-3=-1137/0, 3-4=-2861/785, 4-5=-2703/801, 5-6=-2893/824, 6-7=-2668/898, 7-8=-1957/680, 8-9=-2374/710, 9-10=-2420/642, 10-11=-2017/522						
BOT CHORD	2-20=-587/2469, 19-20=-561/2517, 18-19=-445/2489, 17-18=-198/1683, 17-29=-406/2075, 16-29=-406/2075, 15-16=-458/2083, 14-15=-458/2083						
WEBS	5-20=-413/104, 6-19=-132/630, 6-18=-936/387, 7-18=-427/1570, 7-17=-145/306, 8-17=-651/297, 8-16=0/292, 9-14=-254/147, 11-13=-1516/558, 11-14=-506/2317						

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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.

