

Job 72409833REP1	Truss A2	Truss Type Truss	Qty 7	Ply 1	PB/CLAYTON CRAFTSMAN GL RF Job Reference (optional)
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UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, clm

Run: 8.73 S Jan 4 2024 Print: 8.730 S Jan 4 2024 MiTek Industries, Inc. Thu Jun 20 16:50:43

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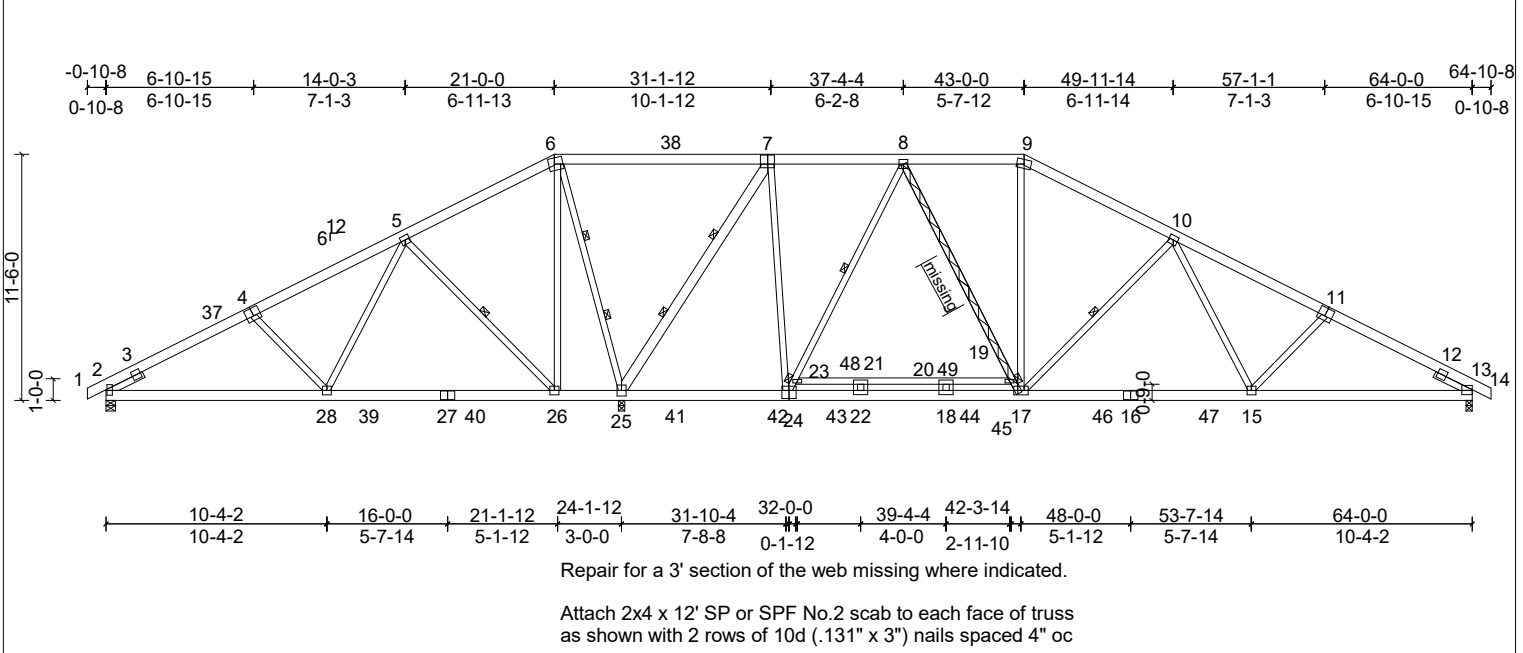


Plate Offsets (X, Y): [2.0-3-2.0-0-8], [4.0-4-0.0-4-8], [6.0-3-4.0-3-8], [7.0-3-12.0-5-0], [11.0-4-0.0-4-8], [13.Edge.0-2-10], [24.0-4-0.0-4-8]

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	0.92	Vert(LL)	-0.27	20-21	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	1.00	Vert(CT)	-0.47	20-21	>999	180		
BCLL	0.0 *	Rep Stress Incr		NO	0.98	Horz(CT)	0.06	13	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MSH							Weight: 534 lb	FT = 20%

LUMBER	BRACING
TOP CHORD 2x6 SP No.2 "Except" T3:2x6 SP SS	TOP CHORD Structural wood sheathing directly applied or 4-0-1 oc purlins, except 2-4-0 oc purlins (6-0-0 max.); 6-8.
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:
WEBS 2x4 SP No.3 "Except" W6:2x6 SP No.2	WEBS 6-0-0 oc bracing: 26-28,25-26. 1 Row at midpt 5-26, 8-23, 10-17
SLIDER Left 2x4 SP No.3 -- 1-11-0, Right 2x4 SP No.3 -- 1-11-0	WEBS 2 Rows at 1/3 pts 6-25, 7-25

REACTIONS	(lb/size)	2=1070/0-5-4, (min. 0-1-8), 13=1413/0-3-8, (min. 0-1-12), 25=4048/0-3-8, (req. 0-5-0)
Max Horiz	2=191 (LC 10)	
Max Uplift	2=262 (LC 10), 13=204 (LC 11), 25=280 (LC 7)	
Max Grav	2=1161 (LC 21), 13=1460 (LC 22), 25=4239 (LC 2)	

FORCES	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-3=-637/12, 3-37=-1465/439, 4-37=-1129/365, 4-5=-832/290, 5-6=-2/938, 6-38=-33/1267, 7-38=-33/1267, 7-8=-424/205, 8-9=-1265/370, 9-10=-1500/355, 10-11=-2168/481, 11-12=-2359/509, 12-13=-886/49
BOT CHORD	2-28=-439/1289, 28-39=-288/228, 27-39=-288/228, 26-40=-288/228, 25-26=-745/405, 25-41=-11/301, 41-42=-11/301, 24-42=-11/301, 24-43=0/800, 18-22=0/800, 18-44=0/800, 44-45=0/800, 17-46=-123/1711, 16-46=-123/1711, 16-47=-123/1711, 15-47=-123/1711, 13-15=-323/2031
WEBS	4-28=-986/425, 5-28=-214/1130, 5-26=-1007/420, 6-26=-172/922, 6-19=-120/919, 17-19=-153/911, 9-17=0/352, 11-15=-287/251, 23-24=-1097/225, 8-23=-1083/256, 7-24=-28/1596, 6-25=-1908/466, 7-25=-2739/445, 10-17=-719/368, 10-15=-72/434

- NOTES (14)**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BC DL=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
 - WARNING: This long span truss requires extreme care and experience for proper and safe handling and erection. For general handling and erection guidance, see Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses ("BCSI"), jointly produced by SBCA and TPI. The building owner or the owner's authorized agent shall contract with a qualified registered design professional for the design and inspection of the temporary installation restraint/bracing and the permanent individual truss member restraint/bracing. MiTek assumes no responsibility for truss manufacture, handling, erection, or bracing.
 - Provide adequate drainage to prevent water ponding.
 - All plates are 5x5 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, with BCDL = 10.0psf.
 - WARNING: Required bearing size at joint(s) 25 greater than input bearing size.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 262 lb uplift at joint 2, 204 lb uplift at joint 13 and 280 lb uplift at joint 25.
 - 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.
 - Magnitude of user added load(s) on this truss have been applied uniformly across all gravity load cases with no adjustments.
 - 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) 750 lb down and 193 lb up at 5-4-12, and 350 lb down and 90 lb up at 26-5-8 on top chord. The design/selection of such connection device(s) is the responsibility of client.
 - 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.

LOAD CASE(S)	Standard
1)	Dead + Roof Live (balanced); Lumber Increase=1.15, Plate Increase=1.15
	Uniform Loads (lb/ft)
	Vert: 1-6=-60, 6-9=-60, 9-14=-60, 29-33=-20, 19-23=-20
	Concentrated Loads (lb)
	Vert: 37=-750, 38=-350



This design is based upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of the Building Designer. Building Designer shall verify all design information on this sheet for conformance with conditions and requirements of the specific building and governing codes and ordinances. Building Designer accepts responsibility for the correctness or accuracy of the design information as it may relate to a specific building. Certification is valid only when truss is fabricated by a UFP 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.



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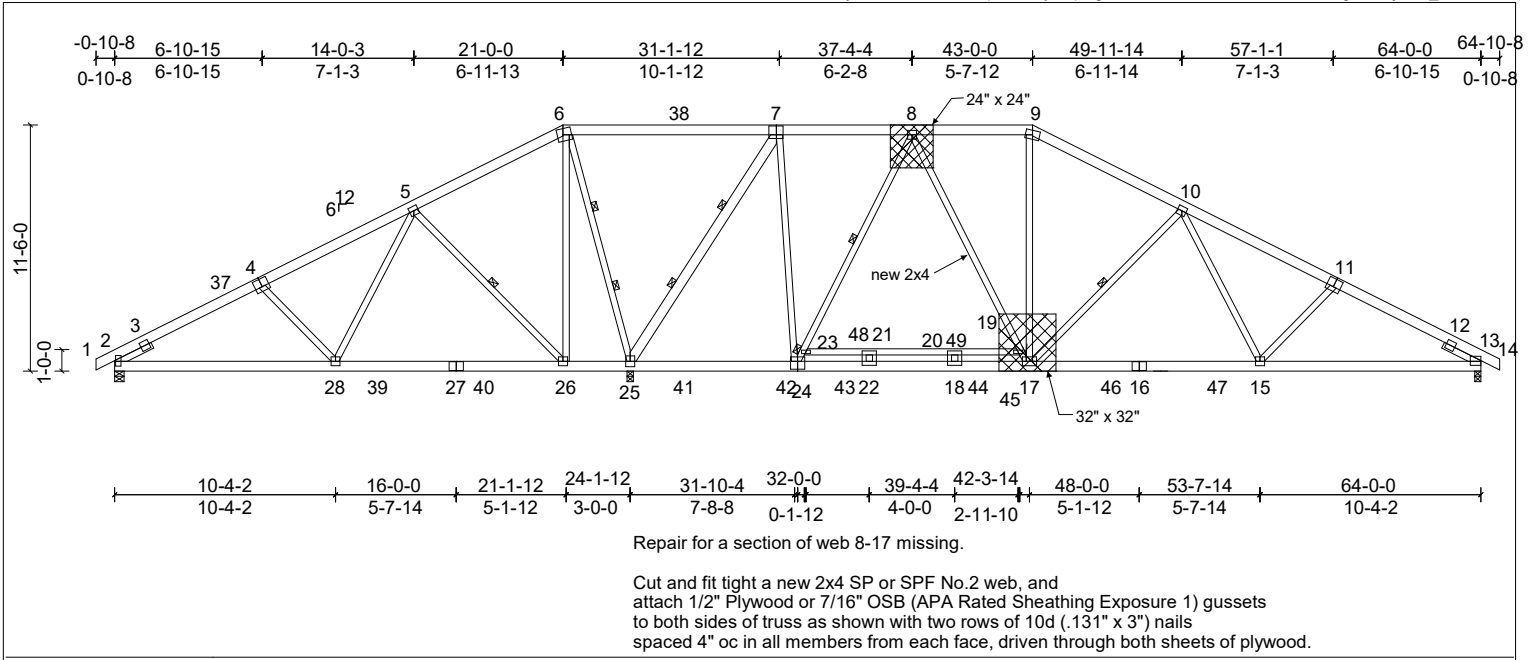


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