Job	Truss	Truss Type	Qty	Ply	SD RALEIGH/ MCGINNIS BEH
72326545REP1	A2	Truss	10	1	Job Reference (optional)

UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Kelly Langley — Run: 8.62 S Sep 22 2022 Print: 8.620 S Sep 22 2022 MiTek Industries, Inc. Mon Oct 02 16:28:57 — Page: 1

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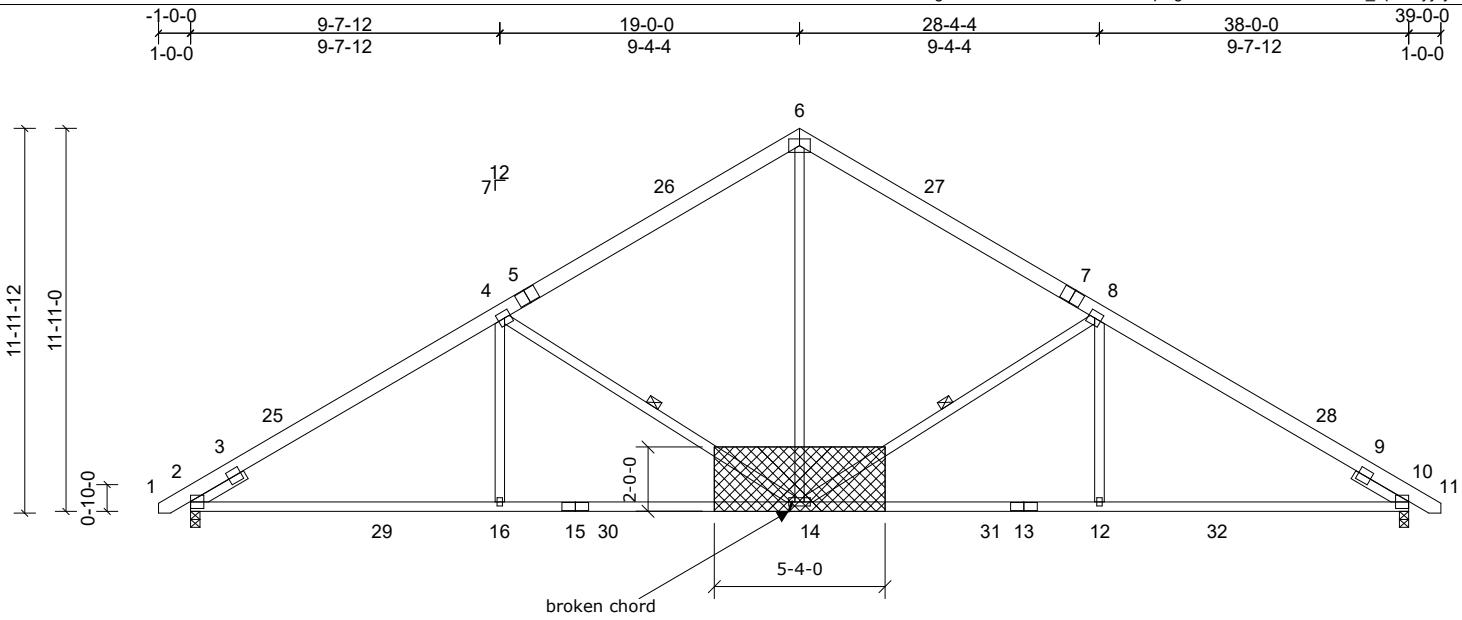

Repair for broken bottom chord as shown.

Attach 7/16 in. OSB (APA Rated Sheathing 24/16 Exposure 1) gusset to both sides of truss as shown with two rows of 10d (.131" x 3") nails 4" oc in all members from each face, driven through both sheets of plywood.

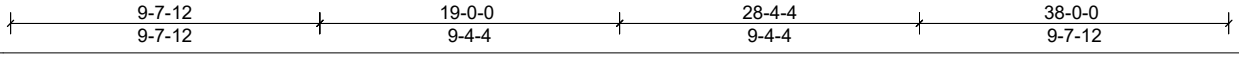

Plate Offsets (X, Y): [2:Edge,0-2-10], [10:Edge,0-2-10]

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	0.46	Vert(LL)	-0.15	14-16	>999	240	MT20	244/190
Snow (Pf/Pg)	15.4/20.0	Lumber DOL	1.15	BC	0.94	Vert(CT)	-0.34	14-16	>999	180	MT18HS	244/190
TCDL	10.0	Rep Stress Incr	YES	WB	0.58	Horz(CT)	0.12	10	n/a	n/a		
BCLL	0.0 *	Code	IRC2015/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 237 lb	FT = 20%

LUMBER

TOP CHORD	2x6 SP No.2
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.3
SLIDER	Left 2x4 SP No.3 -- 1-11-0, Right 2x4 SP No.3 -- 1-11-0

BRACING

TOP CHORD	Structural wood sheathing directly applied or 4-4-9 oc purlins.
BOT CHORD	Rigid ceiling directly applied or 2-2-0 oc bracing.
WEBS	1 Row at midpt 4-14, 8-14

REACTIONS (lb/size)

Max Horiz	2=-286 (LC 10)
Max Uplift	2=-187 (LC 12), 10=-187 (LC 13)
Max Grav	2=1665 (LC 24), 10=1665 (LC 25)

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

TOP CHORD	2-3=-1243/8, 3-25=-2463/240, 4-25=-2276/280, 4-5=-1685/248, 5-26=-1663/281, 6-26=-1545/305, 6-27=-1545/305, 7-27=-1663/281, 7-8=-1685/248, 8-28=-2277/280, 9-28=-2463/240, 9-10=-1130/7
BOT CHORD	2-29=-354/2226, 16-29=-282/2226, 15-16=-282/2226, 15-30=-282/2226, 14-30=-282/2226, 14-31=-99/2012, 13-31=-99/2012, 12-13=-99/2012, 12-32=-99/2012, 10-32=-99/2012
WEBS	6-14=-92/1094, 4-14=-949/309, 4-16=0/426, 8-14=-950/309, 8-12=0/426

NOTES (11)

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) -0-9-12 to 2-11-13, Interior (1) 2-11-13 to 15-2-6, Exterior (2) 15-2-6 to 22-9-10, Interior (1) 22-9-10 to 35-0-3, Exterior (2) 35-0-3 to 38-9-12 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
3) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=15.4 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
4) This truss has been checked for uniform snow load only, except as noted.
5) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
6) All plates are MT20 plates unless otherwise indicated.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 187 lb uplift at joint 2 and 187 lb uplift at joint 10.
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.
11) 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.

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.