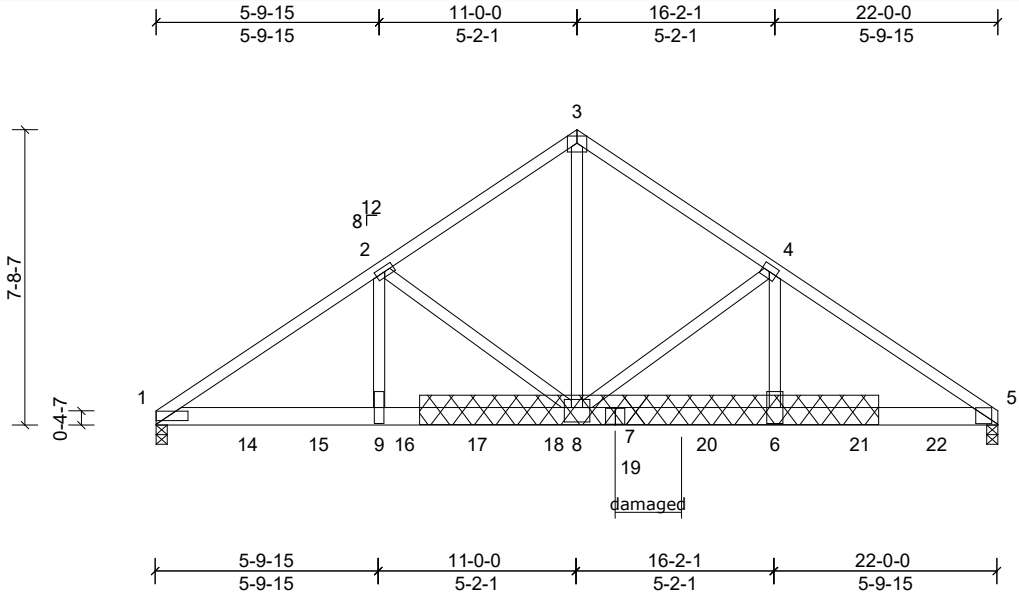


Job	Truss	Truss Type	Qty	Ply	LGI HOMES\TAYLOR PLAN RF
72507449REP1	B2L	Truss	1	2	Job Reference (optional)

ID:cB5n8vFmJ_67klbYmDkhxlyOqqS-4HUj5PkL6jf9EQWv2CjffZC3tEEMGhv7jr3_KzBJbO



Repair for a 3' section of bottom chord damaged in one ply where indicated.

Attach 2x10 x 12' SP or SPF No.2 scab to the damaged face of truss as shown with 2 rows of 10d (.131" x 3") nails spaced 6" oc in the chord and two 10d nails in each web member.

Plate Offsets (X, Y):		[1:0-6-1.0-1-8], [5:0-1-15.0-0-3], [8:0-4-0.0-4-8]										
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	0.78	Vert(LL)	-0.11	8-9	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.84	Vert(CT)	-0.21	8-9	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.61	Horz(CT)	0.06	5	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MSH							Weight: 260 lb	FT = 20%

LUMBER		BRACING	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 3-6-10 oc purlins.
BOT CHORD	2x6 SP No.1 "Except" B2.2x6 SP SS	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	2x4 SP No.3 "Except" W3.2x4 SP No.2		
REACTIONS	(lb/size)	1=5299/0-3-8, (min. 0-3-4), 5=5129/0-3-8, (min. 0-3-2)	
	Max Horiz	1=190 (LC 6)	
	Max Uplift	1=1035 (LC 8), 5=965 (LC 9)	
	Max Grav	1=5467 (LC 15), 5=5270 (LC 16)	
FORCES	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.		
	TOP CHORD	1-2=-7305/1429, 2-3=-5002/1036, 3-4=-5004/1037, 4-5=-7687/1449	
BOT CHORD	1-14=-1225/6168, 14-15=-1225/6168, 9-15=-1225/6168, 9-16=-1225/6168, 16-17=-1225/6168, 17-18=-1225/6168, 8-18=-1225/6168, 7-8=-1120/6364, 7-19=-1120/6364, 19-20=-1120/6364, 6-20=-1120/6364, 6-21=-1120/6364, 21-22=-1120/6364, 5-22=-1120/6364		
WEBS	3-8=-1028/5212, 4-8=-2934/652, 4-6=-461/2887, 2-8=-2519/631, 2-9=-436/2424		

- NOTES (11)**
- 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=130mph (3-second gust) Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp B; 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.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1035 lb uplift at joint 1 and 965 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 HUS26 (14-16d Girder, 4-16d Truss) or equivalent at 0-4-12 from the left end to connect truss(es) A3 (1 ply 2x4 SP) to back face of bottom chord.
 - Use Simpson Strong-Tie LUS26 (4-10d Girder, 3-10d Truss, Single Ply Girder) or equivalent spaced at 2-3-0 oc max. starting at 2-4-12 from the left end to 20-4-12 to connect truss (es) A4 (1 ply 2x4 SP), A5 (1 ply 2x4 SP), A6 (1 ply 2x4 SP), A5 (1 ply 2x4 SP), A7 (1 ply 2x4 SP) to back face of bottom chord.
 - Fill all nail holes where hanger is in contact with lumber.
 - 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
- Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (lb/ft)
- Vert: 1-3=-60, 3-5=-60, 1-5=-20
- Concentrated Loads (lb)
- Vert: 6=-918, 11=-1201, 14=-269, 15=-765, 16=-765, 17=-717, 18=-717, 19=-717, 20=-765, 21=-918, 22=-918

