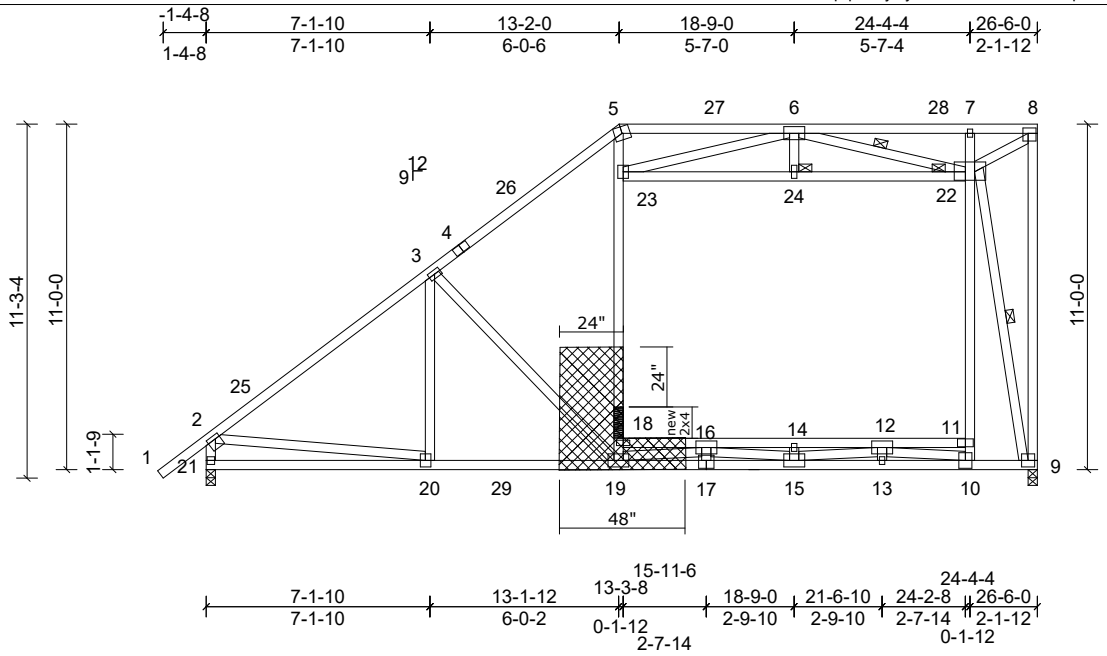
Job	Truss	Truss Type	Qty	Ply	32 DAUPHINE ST
72342487REP1	A3	Truss	1	**2**	Job Reference (optional)



Repair for a section of the verticals missing above joi t 18.

Replace the missing section of verticals with new 2x4 SP or SPF No.2, and attach 3/4in. Plywood or OSB (23/32in. APA Rated Sheathing 48/24 Exposure 1) to each side of the 2-ply truss as shown with two rows of 8d (.131" x 2.5") nails 4" oc in all members.

Plate Offsets (X, Y): [2:0-1-12,0-1-8], [8:0-2-0,0-2-0], [17:0-3-0,0-3-0], [22:0-6-0,0-3-4]

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)	-0.23	19	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.56	Vert(CT)	-0.47	19	>665	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.90	Horz(CT)	0.03	9	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MSH		Attic	-0.12	11-18	>999	360	Weight: 499 lb	FT = 20%

LUMBER

TOP CHORD	2x4 SP No.2 *Except* T3:2x4 SP SS
BOT CHORD	2x4 SP No.2 *Except* B3:2x4 SP SS
WEBS	2x4 SP No.3 *Except* W11,W5:2x4 SP No.1, W13:2x4 SP SS, W8:2x4 SP No.2

REACTIONS (lb/size)

	9=3237/0-3-8, (min. 0-2-0), 21=2068/0-3-8, (min. 0-1-8)
Max Horiz	21=407 (LC 10)
Max Grav	9=3380 (LC 2), 21=2082 (LC 18)

BRACING

TOP CHORD	Structural wood sheathing directly applied or 4-11-7 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 5-8.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing. Except:
	10-0-0 oc bracing: 11-18
WEBS	1 Row at midpt 9-22, 6-22
JOINTS	1 Brace at Jt(s): 8, 22, 24

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

TOP CHORD	2-25=-2630/0, 3-25=-2442/0, 3-4=-2385/0, 4-26=-2299/0, 5-26=-2209/0, 5-27=-2005/0, 6-27=-2005/0, 6-28=0/5576, 7-28=0/5576, 7-8=0/5162, 8-9=0/3319, 2-21=-2021/0
BOT CHORD	20-21=-506/580, 20-29=0/2094, 19-29=0/2094, 17-19=0/3308, 15-17=0/3308, 13-15=0/2138, 10-13=0/2138, 9-10=0/1598, 16-18=-590/0, 14-16=-2147/0, 12-14=-2147/0, 11-12=0/791
WEBS	3-19=-493/231, 18-19=-59/610, 18-23=-28/805, 5-23=0/463, 10-11=0/1009, 11-22=0/1126, 7-22=-1234/0, 9-22=-7007/0, 23-24=-1251/266, 22-24=-1253/266, 2-20=0/1874, 6-22=-6542/0, 14-15=-265/0, 8-22=-6080/0, 12-13=-289/0, 10-12=-1578/0, 12-15=0/1383, 6-23=-228/1649, 16-19=-1544/0, 15-16=-194/328

NOTES (13)

1) 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: 2x4 - 1 row at 0-9-0 oc.
Web connected as follows: 2x4 - 1 row at 0-9-0 oc.
2) 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.
3) Unbalanced roof live loads have been considered for this design.
4) 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) -1-5-9 to 1-6-7, Interior (1) 1-6-7 to 10-2-9, Exterior (2) 10-2-9 to 16-2-9, Interior (1) 16-2-9 to 23-4-4, Exterior (2) 23-4-4 to 26-4-4 zone; end vertical left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
5) Provide adequate drainage to prevent water ponding.
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, with BCDL = 10.0psf.
8) Ceiling dead load (5.0 psf) on member(s). 23-24, 22-24
9) Bottom chord live load (40.0 psf) and additional bottom chord dead load (0.0 psf) applied only to room. 16-18, 14-16, 12-14, 11-12
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) Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
13) Attic room checked for L/360 deflection.
14) 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: 1-2=-60, 2-26=-60, 5-26=-220 (F=-160), 5-8=-220 (F=-160), 10-21=-20, 9-10=-100 (F=-80), 11-18=-20, 23-24=-10, 22-24=-10