

2x4 SP No.3

BOT CHORD WEBS

Rigid ceiling directly applied.

1 Row at midpt 7-8, 6-8

REACTIONS. (lb/size) 8=1253/0-3-8, 2=1178/0-3-8

Max Horz 2=267(LC 10)

Max Uplift 8=-46(LC 10), 2=-9(LC 10)

FORCES. (lb) - Maximum Compression/Maximum Tension

1-2=0/23, 2-15=-1942/52, 3-15=-1852/85, 3-4=-1785/100, 4-5=-1617/134, 5-16=-1032/119, 6-16=-925/134, 6-17=0/47 TOP CHORD

17-18=-20/25, 7-18=-81/22, 7-8=-149/49

BOT CHORD 2-11=-261/1669, <u>11-19=-164/1075</u>, <u>10-19=-164/1075</u>, 10-20=-164/1075, 9-20=-164/1075, 9-21=-58/358, 21-22=-58/358,

5-9=-736/207, 5-11=-68/725, 6-8=-1057/187, 3-11=-385/161, 6-9=-97/1195

WEBS NOTES-

1) Unbalanced roof live loads have been considered for this design.

- 2) Wind: ASCE 7-05; 100mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; enclosed; MWFRS (low-rise) and C-C Exterior(2) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 21-10-0, Exterior(2) 21-10-0 to 24-10-0 zone; cantilever 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 7-05; 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=1.1
- 4) Unbalanced snow loads have been considered for this design.

sheetrock be applied directly to the bottom chord.

- 5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads
- 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 8) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 8 and 2. This connection is for uplift only and does not consider lateral forces. 9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and ½" gypsum

NORTH SEAL 036322 A. GIV

B'SGAB REPAIR IS ADEQUATE FOR 2829

MAK FORCE

1075#

November 14,2017

818 Soundside Road

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE. Design valid for use only with MITek@ connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and properly damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANSI/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314. LAMCO - LOT 64 COLONIAL HILLS - TRUSS AG

AUGUST 1, 2016

STANDARD REPAIR DETAIL FOR BROKEN CHORDS. WEBS AND DAMAGED OR MISSING CHORD SPLICE PLATES

MII-REP01A1

MiTek USA Inc.

Page 1 of 1

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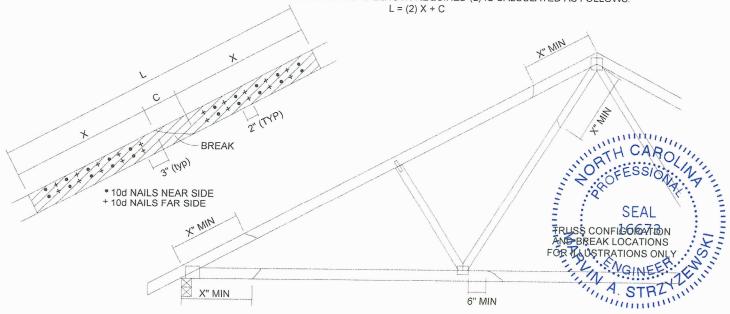
MiTek USA, Inc. ENGINEERED BY

TOTAL NUMBER OF NAILS EACH SIDE OF BREAK *		X INCHES	MAXIMUM FORCE (lbs) 15% LOAD DURATION							
			SP		DF		SPF		HF	
2x4	2x6		2x4	2x6	2x4	2x6	2x4	2x6	2x4	2x6
20	30	24"	1706	2559	1561	2342	1320	1980	1352	2028
26	39	30"	2194	3291	2007	3011	1697	2546	1738	2608
32	48	36"	2681	4022	2454	3681	2074	3111	2125	3187
38	57	42"	3169	4754	2900	4350	2451	3677	2511	3767
44	66	48"	3657	5485	3346	5019	2829	4243	2898	4347

* DIVIDE EQUALLY FRONT AND BACK

ATTACH 2x_ SCAB OF THE SAME SIZE AND GRADE AS THE BROKEN MEMBER TO EACH FACE OF THE TRUSS (CENTER ON BREAK OR SPLICE) WITH 10d (0.131" X 3") NAILS (TWO ROWS FOR 2x4, THREE ROWS FOR 2x6) SPACED 4" O.C. AS SHOWN. STAGGER NAIL SPACING FROM FRONT FACE AND BACK FACE FOR A NET 0-2-0 O.C. SPACING IN THE MAIN MEMBER. USE A MIN. 0-3-0 MEMBER END DISTANCE

THE LENGTH OF THE BREAK (C) SHALL NOT EXCEED 12". (C=PLATE LENGTH FOR SPLICE REPAIRS) THE MINIMUM OVERALL SCAB LENGTH REQUIRED (L) IS CALCULATED AS FOLLOWS:



STRI

THE LOCATION OF THE BREAK MUST BE GREATER THAN OR EQUAL TO THE REQUIRED X DIMENSION FROM ANY PERIMETER BREAK OR HEEL JOINT AND A MINIMUM OF 6" FROM ANY INTERIOR JOINT (SEE SKETCH AROVE)

DO NOT USE REPAIR FOR JOINT SPLICES

SED ONLY FOR THE APPLICATION SHOWN. THIS REPAIR DOES IG PORTION OF THE TRUSS IS UNDAMAGED. THE ENTIRE TRUSS IS UNDAMAGED. THE TRUSS WILL BE CAPABLE OF SUPPORTING THE LOADS INDICATED. OTES:
THIS REPAIR DETAIL IS TO BE USED ONLY FOR THE APPLICATION SHOWN. THIS REPAIR DOES NOT IMPLY THAT THE REMAINING PORTION OF THE TRUSS IS UNDAMAGED. THE ENTIRE TRUSS SHALL BE INSPECTED TO VERIFY THAT NO FURTHER REPAIRS ARE REQUIRED. WHEN THE RECOURED CAROLING REPAIRS ARE PROPERLY APPLIED. THE TRUSS WILL BE CAPABLE OF SUPPORTING THE LOADS UNDICATED. ALL MEMBERS MUST BE RETURNED TO THEIR ORIGINAL POSITIONS BEFORE APPLING REPAIR AND HELD IN PLACE DURING APPLICATION OF REPAIR.

AND HELD IN PLACE DURING APPLICATION OF REPAIR.

NO. 13627 NOTES

ALL MEMBERS MUST BE AND HELD IN PLACE DURING APPLICATION OF NELL MEMBERS MUST BE AND HELD IN PLACE DURING APPLICATION OF NELL MEMBERS HALL BE SOUTH THE END DISTANCE, EDGE DISTANCE AND SPACING OF NAILS SHALL BE SOUTH UNUSUAL SPLITTING OF THE WOOD.

WHEN NAILING THE SCABS, THE USE OF A BACKUP WEIGHT IS RECOMMENDED TO AVOID LOOSENING OF THE CONNECTOR PLATES AT THE JOINTS OR SPLICES.

THIS REPAIR IS TO BE USED FOR SINGLE PLY TRUSSES IN THE 2x_ ORIENTATION ONLY.

THIS REPAIR IS LIMITED TO TRUSSES WITH NO MORE THAN THREE BROKEN MEMBERS.

MARVIN A STRZYZEWSKI Lic. No. 021091 ESCIONAL

November 17,2016

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