

36289



Alpine, an ITW Company
 2400 Lake Orange Dr., Suite 150
 Orlando, FL 32837
 Phone: (800)755-6001
 alpineitw.com

Site Information:

Customer: W. B. Howland Company, Inc.	Job Number: Repair 18-1977
Job Description: 18-1977-C5/REPAIR	
Address:	City, State, Zip:

Name, Address and License # of Structural EOR if one exists for the building:

Name:	License #:	State:
Address:	City, State, Zip:	

Job Engineering Criteria:

Design Code: FBC 2017 RES	View Version: 18.01.00.1.31.20	JRef #: 1W9E2150001
Wind Standard: ASCE 7-10	Wind Speed (mph): 130	Roof Load (psf): 20.00-10.00- 0.00- 10.00
		Floor Load (psf): None

This package contains a job notes page, 1 truss drawings and 0 details.

Item	Seal #	Truss
1	078.18.1738.37590	C5

This document has been electronically signed using a Digital Signature. Printed copies without an original signature must be verified using the original electronic version.



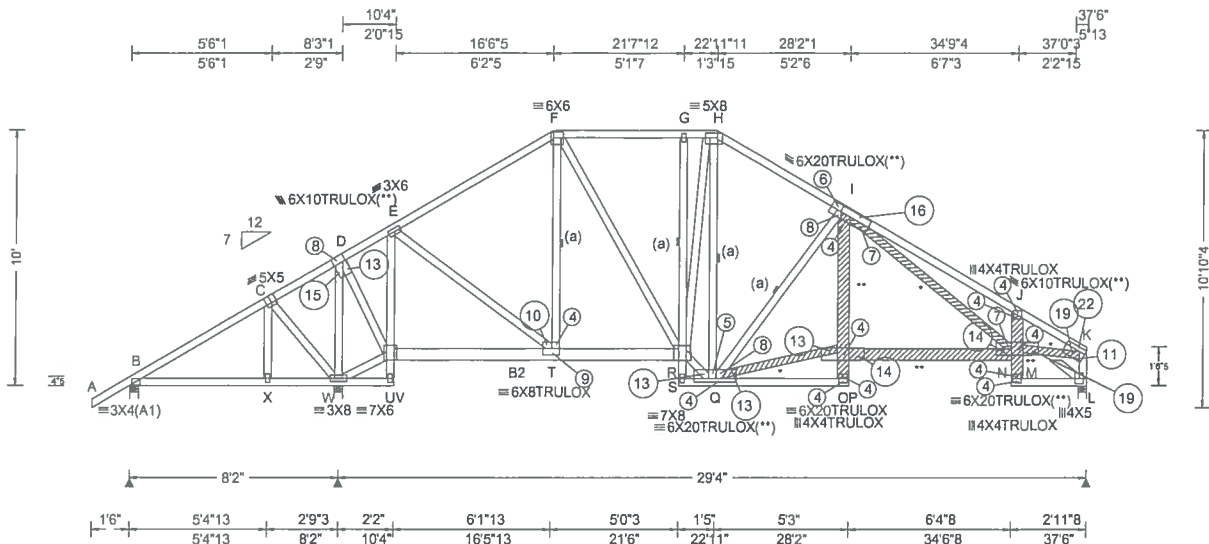
03/20/2018

Job Number: Repair 18-1977
18-1977-C5/REPAIR
Truss Label: C5 rep

Ply: 1
Qty: 1

SEQN: 2937 / T33 COMN
FROM: CDM

Cust: R215 JRef: 1W9E2150001
Dwno: 078.18.1738.37590
GA / WHK 03/19/2018



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)						
				Loc	R	/U	/Rw	/Rh	/RL	/W
TCLL: 20.00	Wind Std: ASCE 7-10	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#	B	156	/225	/-	/-	/-	/4.0
TCDL: 10.00	Speed: 130 mph	Pf: NA Ce: NA	VERT(LL): 0.065 O 999 240	W	2505	/531	/-	/-	/-	/4.0
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(TL): 0.212 O 999 180	L	1278	/256	/-	/-	/-	/4.0
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.048 L - -	Wind reactions based on MWFRS						
Des Ld: 40.00	EXP: C	Code / Misc Criteria Bldg Code: FBC 2017 RES TPI Std: 2014 Rep Factors Used: Yes FT/RT:20(0)/0(0) Plate Type(s): WAVE, Trulox	HORZ(TL): 0.098 L - -	B	Min Brg Width Req = 1.5					
NCBCLL: 10.00	Mean Height: 15.00 ft		Creep Factor: 2.0	W	Min Brg Width Req = 1.7					
Soffit: 2.00	TCDL: 5.0 psf		Max TC CSI: 0.268	L	Min Brg Width Req = 1.5					
Load Duration: 1.25	BCDL: 5.0 psf		Max BC CSI: 0.410	Bearings B, W, & L are a rigid surface.						
Spacing: 24.0 "	MWFRS Parallel Dist: 0 to h/2		Max Web CSI: 0.823	Members not listed have forces less than 375#						
	Loc. from endwall: Any			Maximum Top Chord Forces Per Ply (lbs)						
	GCpi: 0.18			Chords	Tens.	Comp.	Chords	Tens.	Comp.	
	Wind Duration: 1.60		VIEW Ver: 18.01.00.0221.20	B - C	740	-175	G - H	255	-1171	
				C - D	908	-200	H - I	292	-1284	
				E - F	265	-1130	I - J	566	-2629	
				F - G	256	-1175	J - K	544	-2550	
				Maximum Bot Chord Forces Per Ply (lbs)						
				Chords	Tens.	Comp.	Chords	Tens.	Comp.	
				B - X	122	-606	T - R	901	-197	
				X - W	121	-608	O - M	1560	-330	
				Maximum Web Forces Per Ply (lbs)						
				Webs	Tens.	Comp.	Webs	Tens.	Comp.	
				C - W	70	-383	R - H	970	-247	
				W - D	400	-1732	Q - H	193	-562	
				W - U	186	-849	Q - O	1478	-311	
				D - U	1473	-336	Q - I	173	-850	
				U - E	405	-1603	O - I	412	-4	
				E - T	1155	-242	I - M	810	-161	
				F - R	552	-118	M - K	2161	-461	
				R - Q	1433	-301	K - L	266	-1240	

Lumber
Top chord 2x4 SP M-31
Bot chord 2x4 SP M-31 : B2 2x6 SP M-31:
:B4 2x6 SP #2:
Webs 2x4 SP M-31 :W15, W17, W19 2x4 SP #3:
:W16, W18 2x6 SP #2:

Bracing
(a) Continuous lateral restraint equally spaced on member.

Special Loads
—(Lumber Dur.Fac.=1.25 / Plate Dur.Fac.=1.25)
TC: From 63 plf at -1.50 to 63 plf at 37.50
BC: From 5 plf at -1.50 to 5 plf at 0.00
BC: From 20 plf at 0.00 to 20 plf at 37.50
BC: 154 lb Conc. Load at 12.60
BC: 399 lb Conc. Load at 19.81

Plating Notes
All plates are 2X4 except as noted.
(**) 5 plate(s) require special positioning. Refer to scaled plate plot details for special positioning requirements.

11 GAUGE (0.120")X1.375" nails required for trulox plate attachment. Nails specified in circles must be applied to each face of each truss ply. See DWG 160TL for nailing and trulox plate requirements.

* (3)NEW 2x4 SP #2-13B (OR BETTER) MEMBERS.
** (3)NEW 2x6 SP #2-13B (OR BETTER) MEMBERS.
CUT TO FIT AS SHOWN WITH HATCHED MEMBER BELOW.
(+)REMOVE EXISTING MEMBER AND REPLACE WITH *, and **.

Truss repaired to modify the BC profile as shown.

Refer to drawing 031.18.1413.35294 for plates and other data not given here.

REPAIR(S) MUST COMPLY WITH ALPINE DESIGNS AND SPECIFICATIONS.

NOTE: PRIOR TO AND DURING THE REPAIR OPERATION, THIS TRUSS AND ANY SUPPORTED SPANS MUST BE TEMPORARILY BRACED AND SHORED. THE DESIGN AND POSITIONING OF THIS BRACING AND SHORING TO BE DESIGNED BY OTHERS.

+ USE A SHARP METAL CUTTING SAW BLADE TO CAREFULLY REMOVE MATERIAL FROM THE TRUSS AS SHOWN. REMAINING PORTIONS OF TRUSS AND ALPINE PLATES MUST BE FREE FROM DAMAGE.



03/20/2018

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see this job's general notes page and these web sites: ALPINE: www.alpinetw.com; TPI: www.tpinetw.org; SBCA: www.sbcindustry.com; ICC: www.iccsafe.org

ALPINE
AN ITW COMPANY
2400 Lake Orange Dr.
Suite 150
Orlando FL, 32837