

ITW Building Components Group, Inc.

1950 Marley Drive Haines City, FL 33844

Florida Engineering Certificate of Authorization Number: 0 278

Florida Certificate of Product Approval # FL1999

Page 1 of 1 Document ID: IUT3215-Z0122064537



Truss Fabricator: **W.B. Howland**
Job Identification: **8025-/DERRINGTON PROPERTIES /Plumb Level Construction -- LAKE CITY, STATE OF**
Truss Count: **48**
Model Code: **Florida Building Code 2010**
Truss Criteria: **FBC2010Res/TPI-2007(STD)**
Engineering Software: **Alpine Software, Version 10.03.**
Structural Engineer of Record: **The identity of the structural EOR did not exist as of**
Address: **the seal date per section 61615-31.003(5a) of the FAC**
Minimum Design Loads: **Roof - 40.0 PSF @ 1.25 Duration**
Floor - N/A
Wind - 130 MPH ASCE 7-10 -Closed

Notes:

1. Determination as to the suitability of these truss components for the structure is the responsibility of the building designer/engineer of record, as defined in ANSI/TPI 1
2. The drawing date shown on this index sheet must match the date shown on the individual truss component drawing.
3. As shown on attached drawings; the drawing number is preceded by: HCUSR215

William H. Krick
-Truss Design Engineer-

1950 Marley Drive
Haines City, FL 33844

Details: CNNAILSP-BRCLBSUB-

#	Ref	Description	Drawing#	Date
1	76685--A		13022042	01/22/13
2	76686--A1		13022001	01/22/13
3	76687--A2		13022002	01/22/13
4	76688--A3		13022048	01/22/13
5	76689--B		13022043	01/22/13
6	76690--B1		13022003	01/22/13
7	76691--C		13022044	01/22/13
8	76692--C1		13022004	01/22/13
9	76693--C2		13022005	01/22/13
10	76694--D		13022045	01/22/13
11	76695--D1		13022006	01/22/13
12	76696--D2		13022007	01/22/13
13	76697--D3		13022008	01/22/13
14	76698--G		13022047	01/22/13
15	76699--G1		13022009	01/22/13
16	76700--G2		13022010	01/22/13
17	76701--G3		13022011	01/22/13
18	76702--G4		13022012	01/22/13
19	76703--G5		13022013	01/22/13
20	76704--G6		13022014	01/22/13
21	76705--G7		13022015	01/22/13
22	76706--G8		13022016	01/22/13
23	76707--G9		13022017	01/22/13
24	76708--G10		13022018	01/22/13
25	76709--G11		13022019	01/22/13
26	76710--G12		13022020	01/22/13
27	76711--G13		13022021	01/22/13
28	76712--G14		13022022	01/22/13
29	76713--G15		13022023	01/22/13
30	76714--G16		13022024	01/22/13
31	76715--H		13022041	01/22/13
32	76716--H1		13022035	01/22/13
33	76717--H2		13022036	01/22/13
34	76718--H3		13022037	01/22/13
35	76719--J		13022038	01/22/13
36	76720--J1		13022039	01/22/13

#	Ref	Description	Drawing#	Date
37	76721--J2		13022040	01/22/13
38	76722--J3		13022029	01/22/13
39	76723--J4		13022030	01/22/13
40	76724--J5		13022031	01/22/13
41	76725--J6		13022032	01/22/13
42	76726--J7		13022025	01/22/13
43	76727--J8		13022026	01/22/13
44	76728--J9		13022027	01/22/13
45	76729--J10		13022028	01/22/13
46	76730--J11		13022046	01/22/13
47	76731--J12		13022033	01/22/13
48	76732--J13		13022034	01/22/13



Top chord 2x4 SP_SS_12A : T2 2x6 SP #2 N 12A:

Bot chord 2x6 SP_#2_N_12A
Webs 2x4 SP_#2_N_12A

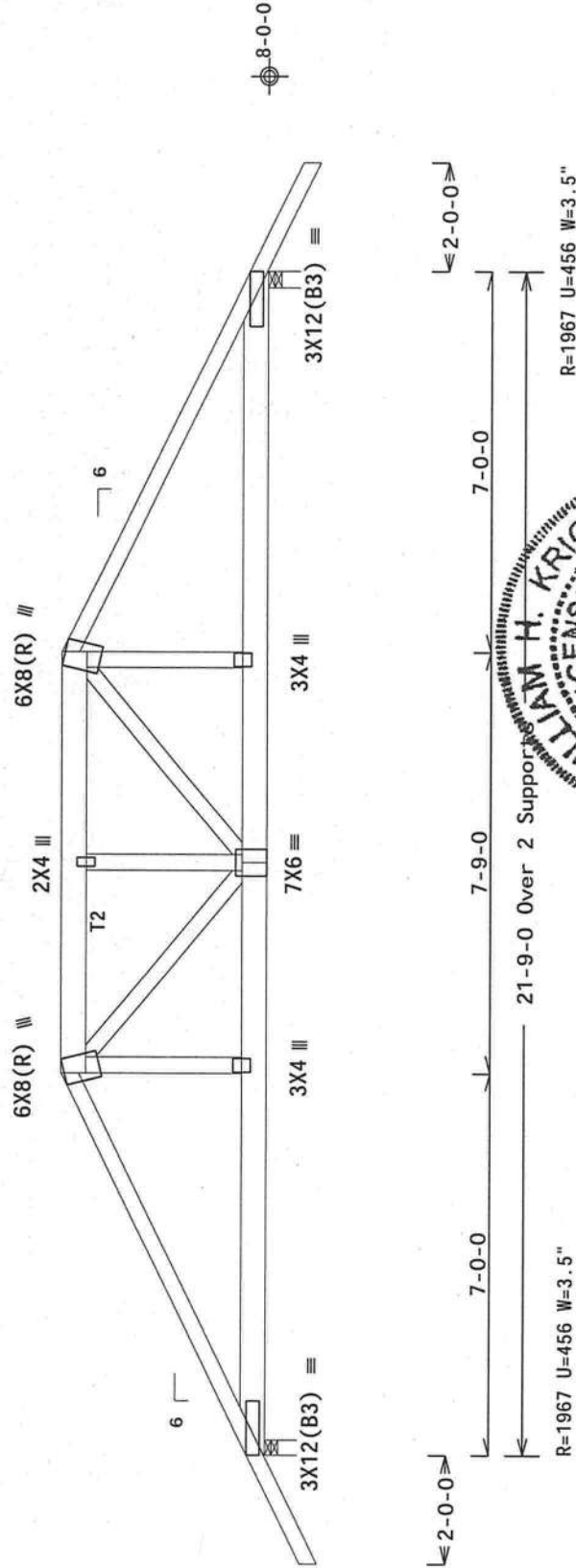
Lumber grades designated with "12A" use design values approved 1/5/2012 by ALSC.

130 mph wind, 15.00 ft mean hgt, ASCE 7-10, CLOSED bldg, not located within 4.50 ft from roof edge, RISK CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=5.0 psf. GCpl (+/-)=0.18

Wind loads and reactions based on MWFRS.

In lieu of structural panels use purlins to brace all flat TC @ 24" OC.

Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.



PLT TYP. Wave

Design Crit: FBC2010Res/TPI-2007(STG)
 $FT/RT=20\%(0\%)/10(0)$

FL/-/5/-/-/R/-/
Scale = .3125"/Ft.

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS SHEET.

****IMPORTANT**** FURNISH THIS DESIGN TO ALL CONTRACTORS INCLUDING INSTALLERS.

Trussing requires extreme care in fabricating, handling, shipping, installing and bracing. Refer to the latest edition of BCSI (Building Components Systems Inc.) Specification for Trussing (BTSI) for best 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 truss shall have bracing installed per BCSI sections B3, B7 or B10, as applicable.

ITW Building Components Group Inc. (ITWBCG) shall not be responsible for any deviation from this design. Any deviation should be in accordance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. Apply to all trusses. Refer to drawings 160A-Z for standard plate positions. 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 design for any structure is the responsibility of the building designer. ITW Building Designer per ANSI/TPI 1 Sec. 2. For more information see: This job's general notes section. ITW-BG00: www.itwbcg.com, TPI: www.tpiinc.org, WTCAL: www.fabricindustry.com, ICC: www.icccargo.org

01/22/2013

ALPINE

ITW Building Components Group Inc.
Haines City, FL 33844
FL COA #0278

01/22/2013

Top	chord	2x4	SP	#2	N	12A
Bot	chord	2x4	SP	#2	N	12A
	Webs	2x4	SP	#2	N	12A

130 mph wind, 15.00 ft mean hgt, ASCE 7-10, CLOSED bldg, not located within 9.00 ft from roof edge, RISK CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=5.0 psf. GCpi (+/-)=0.18

Lumber grades designated with "12A" use design values approved 1/5/2012 by ALSC.

Wind loads and reactions based on MWFRS with additional C&C member design.

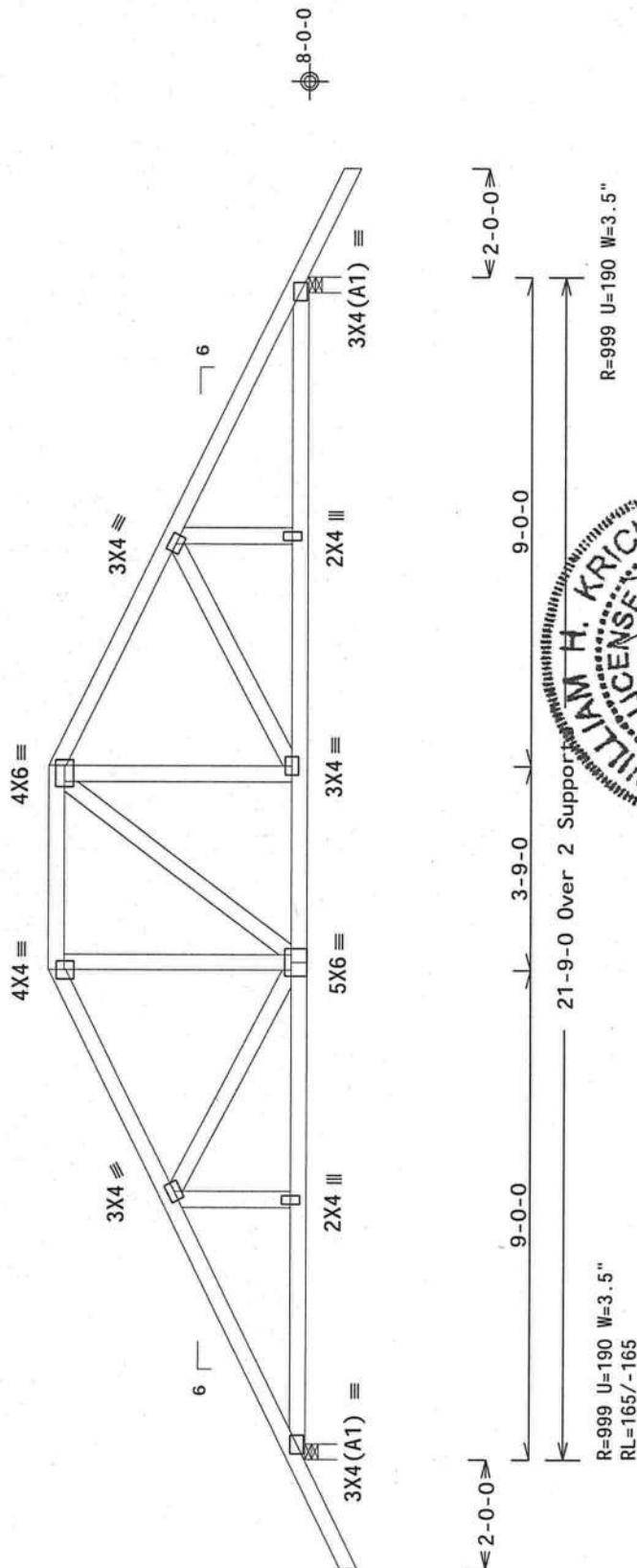
In lieu of structural panels use purlins to brace all flat TC @ 24" OC.

Bottom chord checked for 10.00 psf non-concurrent live load.

The overall height of this truss excluding overhang is 4-10-3.

Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.

WFRS loads based on trusses located at least 7.50 ft. from roof edge.



R=999 U=190 W=3.5"

R=999 U=190 W=3.5"
RL=165/-165

PLT TYP. Wave

Design Crit: FBC2010Res/TPI-2007(ST)
 $FT/RT=20\%(0\%)/10(0)$

Scale = .3125" / Ft.

ALPINE

ITW Building Components Group Inc.

Haines City, FL 33844
FL COA #0 278

****WARNING** READ AND FOLLOW ALL NOTES ON THIS SHEET.**

****IMPORTANT** FURNISH THIS DESIGN TO ALL CONTRACTORS INCLUDING INSTALLERS.**

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to load following and erection instructions by ITW Building Components Group Inc. (ITBCG) and (ITCA) for all details and instructions. Trusses shall be installed in accordance with the design and erection instructions. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have properly attached rigid ceiling. Locations shown for permanent lateral restraint of trusses shall have bracing installed per BC51 sections B3, B7 or B10, as applicable.

ITW Building Components Group Inc. (ITBCG) shall not be responsible for any deviation from this design, bracing of trusses. 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. A seal on this truss is required for the design and erection. The seal is required for the acceptance of professional engineering and the responsibility of the Building Designer per ANSI/TPI 1 Sec. 2. For more information see: This job's general notes page: ITW-BG0; www.itwbcg.com; TPI: www.tpinet.org; ITCA: www.itcasafety.org

ICC: www.iccsafo.org

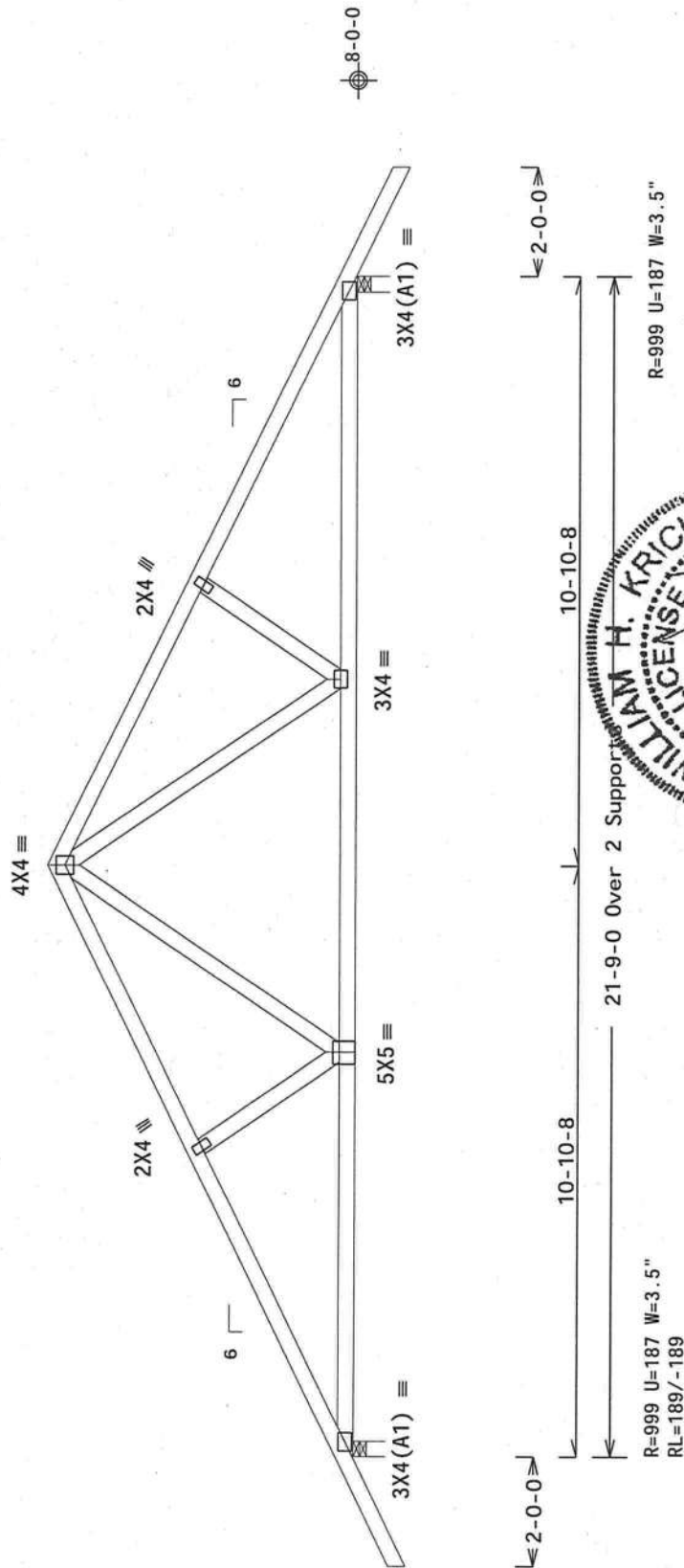
TC LL	20.0	PSF	REF	R215--	76686
TC DL	10.0	PSF	DATE	01/22/13	
BC DL	10.0	PSF	DRW	HCUSR215	13022001
BC LL	0.0	PSF	HC-ENG	KD/AP	
TOT. LD.	40.0	PSF	SEQN-	362561	
DUR. FAC.	1.25		FROM	CDM	
SPACING	24.0"		JREF-	1UT3215_Z01	

130 mph wind, 15.00 ft mean hgt, ASCE 7-10, CLOSED bldg, not located within 9.00 ft from roof edge, RISK CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=5.0 psf. GCpi (+/-)=0.18

Wind loads and reactions based on MWFRS with additional C&C member design.

Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.

MWFRS loads based on trusses located at least 7.50 ft. from roof edge.



R=999 U=187 W=3.5"
RL=189/-189

WILLIAM H. KRICK
LICENSE
No. 70861
10-03-11 10-09-20
STATE OF FLORIDA
PROFESSIONAL ENGINEER

PLT TYP. Wave

Design Crit: $\text{FBC2010Res}/\text{TPI}-2007(\text{ST})$
 $\text{FT}/\text{RT}=20\%(0\%)/10(0)$

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS SHEET!
FURNISH THIS DESIGN TO ALL CONTRACTORS INCLUDING INSTALLERS

****IMPORTANT****

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 WCA for installation and erection instructions. Truss fabricators shall provide temporary bracing per BCSI 2000, section 10.1. Truss fabricators shall have a properly trained and experienced crew that shall have bracing installed per BCSI, sections B3, B4, B10, B11, B12, B13, B14, B15, B16, B17, B18, B19, B20, B21, B22, B23, B24, B25, B26, B27, B28, B29, B30, B31, B32, B33, B34, B35, B36, B37, B38, B39, B40, B41, B42, B43, B44, B45, B46, B47, B48, B49, B50, B51, B52, B53, B54, B55, B56, B57, B58, B59, B60, B61, B62, B63, B64, B65, B66, B67, B68, B69, B70, B71, B72, B73, B74, B75, B76, B77, B78, B79, B80, B81, B82, B83, B84, B85, B86, B87, B88, B89, B90, B91, B92, B93, B94, B95, B96, B97, B98, B99, B100, B101, B102, B103, B104, B105, B106, B107, B108, B109, B110, B111, B112, B113, B114, B115, B116, B117, B118, B119, B120, B121, B122, B123, B124, B125, B126, B127, B128, B129, B130, B131, B132, B133, B134, B135, B136, B137, B138, B139, B140, B141, B142, B143, B144, B145, B146, B147, B148, B149, B150, B151, B152, B153, B154, B155, B156, B157, B158, B159, B160, B161, B162, B163, B164, B165, B166, B167, B168, B169, B170, B171, B172, B173, B174, B175, B176, B177, B178, B179, B180, B181, B182, B183, B184, B185, B186, B187, B188, B189, B190, B191, B192, B193, B194, B195, B196, B197, B198, B199, B200, B201, B202, B203, B204, B205, B206, B207, B208, B209, B210, B211, B212, B213, B214, B215, B216, B217, B218, B219, B220, B221, B222, B223, B224, B225, B226, B227, B228, B229, B230, B231, B232, B233, B234, B235, B236, B237, B238, B239, B240, B241, B242, B243, B244, B245, B246, B247, B248, B249, B250, B251, B252, B253, B254, B255, B256, B257, B258, B259, B260, B261, B262, B263, B264, B265, B266, B267, B268, B269, B270, B271, B272, B273, B274, B275, B276, B277, B278, B279, B280, B281, B282, B283, B284, B285, B286, B287, B288, B289, B290, B291, B292, B293, B294, B295, B296, B297, B298, B299, B300, B301, B302, B303, B304, B305, B306, B307, B308, B309, B310, B311, B312, B313, B314, B315, B316, B317, B318, B319, B320, B321, B322, B323, B324, B325, B326, B327, B328, B329, B330, B331, B332, B333, B334, B335, B336, B337, B338, B339, B340, B341, B342, B343, B344, B345, B346, B347, B348, B349, B350, B351, B352, B353, B354, B355, B356, B357, B358, B359, B360, B361, B362, B363, B364, B365, B366, B367, B368, B369, B370, B371, B372, B373, B374, B375, B376, B377, B378, B379, B380, B381, B382, B383, B384, B385, B386, B387, B388, B389, B390, B391, B392, B393, B394, B395, B396, B397, B398, B399, B400, B401, B402, B403, B404, B405, B406, B407, B408, B409, B410, B411, B412, B413, B414, B415, B416, B417, B418, B419, B420, B421, B422, B423, B424, B425, B426, B427, B428, B429, B430, B431, B432, B433, B434, B435, B436, B437, B438, B439, B440, B441, B442, B443, B444, B445, B446, B447, B448, B449, B450, B451, B452, B453, B454, B455, B456, B457, B458, B459, B460, B461, B462, B463, B464, B465, B466, B467, B468, B469, B470, B471, B472, B473, B474, B475, B476, B477, B478, B479, B480, B481, B482, B483, B484, B485, B486, B487, B488, B489, B490, B491, B492, B493, B494, B495, B496, B497, B498, B499, B500, B501, B502, B503, B504, B505, B506, B507, B508, B509, B510, B511, B512, B513, B514, B515, B516, B517, B518, B519, B520, B521, B522, B523, B524, B525, B526, B527, B528, B529, B530, B531, B532, B533, B534, B535, B536, B537, B538, B539, B540, B541, B542, B543, B544, B545, B546, B547, B548, B549, B550, B551, B552, B553, B554, B555, B556, B557, B558, B559, B560, B561, B562, B563, B564, B565, B566, B567, B568, B569, B570, B571, B572, B573, B574, B575, B576, B577, B578, B579, B580, B581, B582, B583, B584, B585, B586, B587, B588, B589, B590, B591, B592, B593, B594, B595, B596, B597, B598, B599, B600, B601, B602, B603, B604, B605, B606, B607, B608, B609, B610, B611, B612, B613, B614, B615, B616, B617, B618, B619, B620, B621, B622, B623, B624, B625, B626, B627, B628, B629, B630, B631, B632, B633, B634, B635, B636, B637, B638, B639, B640, B641, B642, B643, B644, B645, B646, B647, B648, B649, B650, B651, B652, B653, B654, B655, B656, B657, B658, B659, B660, B661, B662, B663, B664, B665, B666, B667, B668, B669, B670, B671, B672, B673, B674, B675, B676, B677, B678, B679, B680, B681, B682, B683, B684, B685, B686, B687, B688, B689, B690, B691, B692, B693, B694, B695, B696, B697, B698, B699, B700, B701, B702, B703, B704, B705, B706, B707, B708, B709, B710, B711, B712, B713, B714, B715, B716, B717, B718, B719, B720, B721, B722, B723, B724, B725, B726, B727, B728, B729, B730, B731, B732, B733, B734, B735, B736, B737, B738, B739, B740, B741, B742, B743, B744, B745, B746, B747, B748, B749, B750, B751, B752, B753, B754, B755, B756, B757, B758, B759, B760, B761, B762, B763, B764, B765, B766, B767, B768, B769, B770, B771, B772, B773, B774, B775, B776, B777, B778, B779, B780, B781, B782, B783, B784, B785, B786, B787, B788, B789, B790, B791, B792, B793, B794, B795, B796, B797, B798, B799, B800, B801, B802, B803, B804, B805, B806, B807, B808, B809, B810, B811, B812, B813, B814, B815, B816, B817, B818, B819, B820, B821, B822, B823, B824

ITW Building Components Group Inc. (ITWBCG) shall not be responsible for any deviation from this document. If any failure occurs while building this structure, the manufacturer, ANSI/APA shall be responsible for the details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. 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 design for any structure is the responsibility of the building designer. For more information see: This Job's General Notes. For more information see: ITWBCG, <http://www.ppi.com/ppl>; <http://www.ppi.com/ppl>; www.160series.com;



ALPINE
ITTW Building Components Group Inc.
 Haines City, FL 33844
 FL COA #0 278

TC LL	20.0 PSF	REF	R215--	76687
TC DL	10.0 PSF	DATE	01/22/13	
BC DL	10.0 PSF	DRW	HCUSR215	13022002
BC LL	0.0 PSF	HC-ENG	KD/AP	
TOT. LD.	40.0 PSF	SEQN-	3625559	
DUR. FAC.	1.25	FROM	CDM	
SPACING	24.0"	JREF-	1UT3215	Z01

2 COMPLETE TRUSSES REQUIRED

Nail Schedule: 0.131" x 3", min. nails
Top Chord: 1 Row @ 12.00" o.c.
Bot Chord: 2 Rows @ 4.50" o.c. (Each Row)
Webs : 1 Row @ 4" o.c.
Use equal spacing between rows and stagger in each row to avoid splitting.

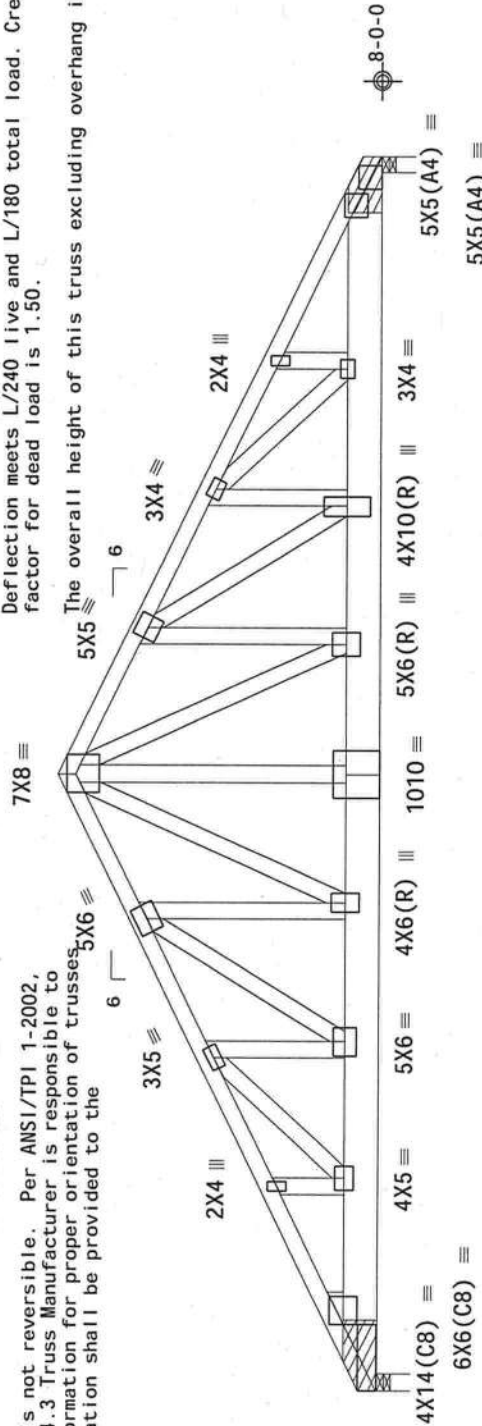
Lumber grades designated with "12A" use design values approved 1/5/2012 by ALSC.

Special loads

	(Lumber	Dur. Fac.=1.25 /	Plate	Dur. Fac.=1.25)
TC- From	60 plf at 0.00 to	60 plf at 10.88		
TC- From	30 plf at 10.88 to	30 plf at 21.75		
BC- From	10 plf at 0.00 to	10 plf at 21.75		
BC- 1430.81 lb Conc.	Load at 0.69			
BC- 1426.68 lb Conc.	Load at 2.69, 4.69, 6.69, 8.69			
10, 69, 12, 69				
BC- 2606.00 lb Conc.	Load at 14.75			
BC- 743.33 lb Conc.	Load at 15.81, 17.81, 19.81			

Wind loads and reactions based on MWFRS.

This truss is not reversible. Per ANSI/TPI 1-2002, Section 2.4.3 Truss Manufacturer is responsible to provide information for proper orientation of truss. This information shall be provided to the contractor.



10-10-8 21-9-0 Over 2 Supports 10-10-8

PLT TYP. Wave

Design Crit: FBC2010Res/TPI-2007(ST2)
 $FT/RT=20\%(0\%)/10(0)$

Scale = .3125"/Ft.

****IMPORTANT**** FURNISH THIS DESIGN TO ALL CONTRACTORS INCLUDING INSTALLERS.

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Follow the latest edition of BC51 (Building Component Safety Information, by TPI and WTC) and practices prior to performing these functions. Installers shall provide temporary bracing positions. 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 shall have bracing installed per BC51 sections B3, B7 or B10, as applicable.

TW Building Components Group Inc. (TWBCG) shall not be responsible for any deviation from this design or any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation, erection, use, or maintenance of the truss above and on the Joint. Details, unless noted otherwise. Refer to drawings 160A-2 for standard plate details 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 design for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2. For more information see: General notes page: TW-BGC: www.twbgc.com; TPI: www.tpinet.org; WTC: www.sbcindustry.com; IBC: www.iccsafe.org

STATE OF FLORIDA

PROFESSIONAL ENGINEER

01/22/2013

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS SHEET!

REF	R215--	76688
DATE	01/22/13	
DRW	HCUSR215	13022048
HC-ENG	KD/AP	
SEQN-	362818	
FROM	CDM	
JREF-	1UT3215_Z01	

ALPINE

TW Building Components Group Inc.
Haines City, FL 33844
FL COA #0 278

TC LL	20.0	PSF
TC DL	10.0	PSF
BC DL	10.0	PSF
BC LL	-0.0	PSF
TOT.LD.	40.0	PSF
DUR.FAC.	1.25	
SPACING	24.0"	

(8025--/DERRINGTON PROPERTIES /Plumb Level Construction -- LAKE CITY, FL - B)

Top chord 2x4 SP_#2_N_12A :T2 2x6 SP_#2_N_12A:

Bot chord 2x6 SP_#2_N_12A

Webs 2x4 SP_#2_N_12A

Lumber grades designated with "12A" use design values approved 1/5/2012 by ALSC.

130 mph wind, 15.00 ft mean hgt, ASCE 7-10, CLOSED bldg, Located anywhere in roof, RISK CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=5.0 psf. GCpl(+/-)=0.18

Wind loads and reactions based on MWFRS.

In lieu of structural panels use purlins to brace all flat TC @ 24" OC.

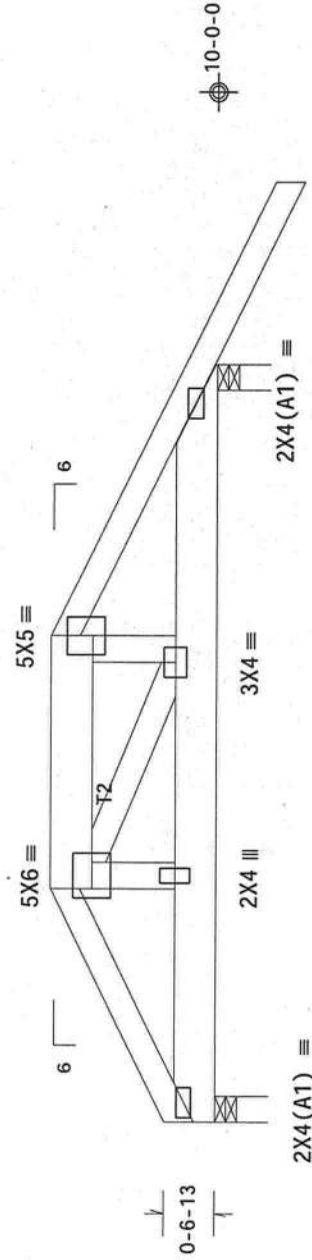
Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.

Special loads

	Dur.Fac.=1.25 / Plate	Dur.Fac.=1.25
TC- From	60 plf at 0.00 to	60 plf at 2.56
TC- From	30 plf at 2.56 to	30 plf at 5.35
TC- From	60 plf at 5.35 to	60 plf at 10.35
BC- From	20 plf at 0.00 to	20 plf at 2.59
BC- From	10 plf at 2.59 to	10 plf at 5.32
BC- From	20 plf at 5.32 to	20 plf at 8.35
BC- From	4 plf at 8.35 to	4 plf at 10.35
TC- 80.76 lb Conc. Load at	2.59, 5.32	
TC- 47.85 lb Conc. Load at	3.96	
BC- 109.22 lb Conc. Load at	2.59, 5.32	
BC- 45.49 lb Conc. Load at	3.96	

Bottom chord checked for 10.00 psf non-concurrent live load.

The overall height of this truss excluding overhang is 1-10-3.



2-0-0

3-0-0

2-9-8

2-6-12

8-4-4 Over 2 Supports

R=507 U=166 W=3.5"

PLT TYP. Wave

Design Crit: FBC2010Res/TPI-2007(ST) FT/RT=20%(0%)/10(0)

Scale = .5" / Ft.

TC LL	20.0 PSF	REF R215--	76689
TC DL	10.0 PSF	DATE	01/22/13
BC DL	10.0 PSF	DRW	HCU215 13022043
BC LL	0.0 PSF	HC-ENG	KD/AP
TOT.LD.	40.0 PSF	SEQN-	362653
DUR.FAC.	1.25	FROM	CDM
SPACING	24.0"	JREF-	1UT3215_Z01

WARNING: READ AND FOLLOW ALL NOTES ON THIS SHEET. FURNISH THIS DESIGN TO ALL CONTRACTORS INCLUDING INSTALLERS.

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Follow the latest edition of BCSI (Building Component Safety Information, by TPI and WTCA) for practices prior to performing these functions. Installers shall provide temporary bracing per WTCA 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 top chord shall have bracing installed per BCSI sections B3, B7 or B10, as applicable.

ITW Building Components Group Inc. (ITWBCG) shall not be responsible for any deviation from this design or any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation or bracing of trusses. Apply places to each face of truss and position as shown above and on the Joint Detailing and Installation Manual. The design is the property of ITWBCG and shall remain confidential. Drawing or cover page listing this drawing, indicates acceptance of professional engineering seal on this responsibility solely for the design shown. The suitability and use of this design 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; ITW-BCG: www.itwbcg.com; TPI: www.tpiinst.org; WTCA: www.sbcindustry.com; ICC: www.iccsafe.org

ALPINE

ITW Building Components Group Inc.
Haines City, FL 33844
FL COA #0 278



Top chord 2x4 SP_#2_N_12A
Bot chord 2x4 SP_#2_N_12A

Lumber grades designated with "12A" use design values approved 1/5/2012 by ALSC.

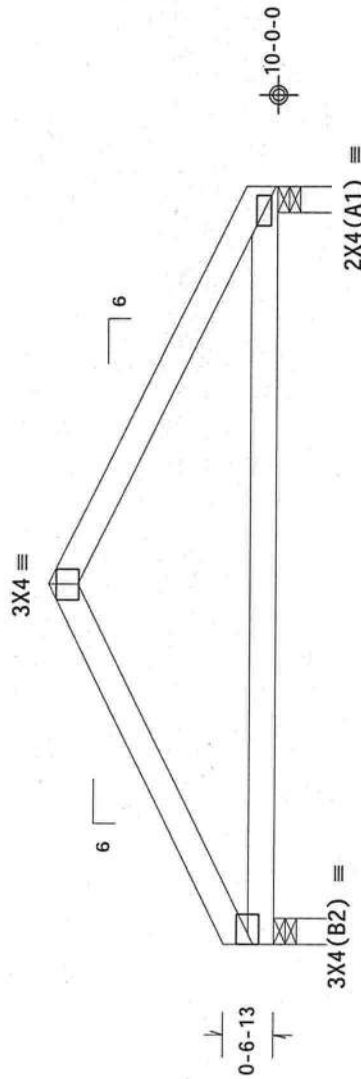
Bottom chord checked for 10.00 psf non-concurrent live load.

The overall height of this truss excluding overhang is 2-6-9.

130 mph wind, 15.00 ft mean hgt, ASCE 7-10, CLOSED bldg, not located within 4.50 ft from roof edge, RISK CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=5.0 psf, GCPI(+/-)=0.18

Wind loads and reactions based on MWFRS with additional C&C member design.

Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.



3-11-8
8-4-4 Over 2 Supports
4-4-12
R=330 U=57 W=3.5"
RL=51/-54

PLT TYP. Wave

Design Crit: FBC2010Res/TPI-2007(S1)

Scale = .5"/Ft.

TC LL	20.0 PSF	REF	R215--	76690
TC DL	10.0 PSF	DATE	01/22/13	
BC DL	10.0 PSF	DRW	HCUSR215	13022003
BC LL	0.0 PSF	HC-ENG	KD/AP	
TOT.LD.	40.0 PSF	SEQN-	362650	
DUR.FAC.	1.25	FROM	CDM	
SPACING	24.0"	JREF-	1UT3215_Z01	

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS SHEET!
FURNISH THIS DESIGN TO ALL CONTRACTORS INCLUDING INSTALLERS.
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Follow the latest edition of BCSI (Building Component Safety Information, by TPI and WTCA) practices prior to performing these functions. Installers shall provide temporary bracing and bracing 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 shall have bracing installed per BCSI sections B1, B7 or B10, as applicable.
ITW Building Components Group Inc. (ITWBCG) shall not be responsible for any deviation from this design for any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation or any other reason. The user of this design shall be responsible for the proper use of this design. Details, unless noted otherwise, shall be in accordance with the BCSI 1000-2. Drawing or cover page listing this drawing. The suitability and use of this design 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; ITW-BCG: www.itwbcg.com; TPI: www.tpinet.org; WTCA: www.sbcindustry.com; IBC: www.iccsafe.org

ALPINE
ITW Building Components Group Inc.
Haines City, FL 33844
FL COA #0278

01/22/2013

Top chord 2x4 SP_#2 N_12A
Bot chord 2x4 SP_#2 N_12A
Webs 2x4 SP_#2 N_12A

130 mph wind, 15.00 ft mean hgt, ASCE 7-10, CLOSED bldg, not located within 4.50 ft from roof edge, RISK CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=5.0 psf, GCpl(+/-)=0.18

Lumber grades designated with "12A" use design values approved 1/5/2012 by ALSC.

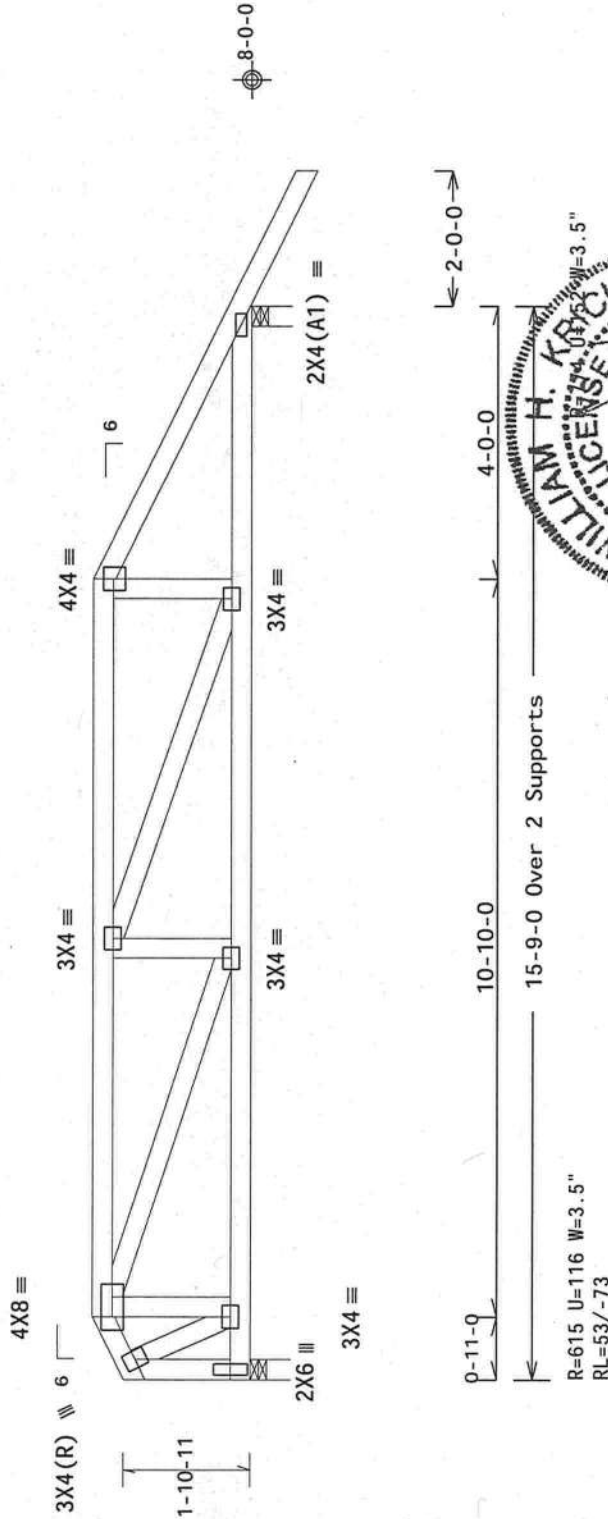
Wind loads and reactions based on MWFRS with additional C&C member design.

In lieu of structural panels use purlins to brace all flat TC @ 24"

Bottom chord checked for 10.00 psf non-concurrent live load.

The overall height of this truss excluding overhang is 2-4-3.

Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.



PLT TYP. Wave

Design Crit: FBC2010Res/TPI-2007(STD)
FT/RT=20%(0%)/10(0)

Scale = .375"/Ft.

ALPINE ITW Building Components Group Inc. Haines City, FL 33844 FL COA #0278	**IMPORTANT** Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to the latest edition of BCSI (Building Component Safety Information, by TPI and WTCA) for details, unless noted otherwise. Top chord shall have properly attached structural sheathing and bottom chord shall have bracing installed per BCSI sections B3, B7 or B10, as applicable.	TC LL	20.0 PSF	REF	R215--	76692
	ITW Building Components Group Inc. (ITWBCG) shall not be responsible for any deviation from this design for any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation, bracing of trusses. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-2 for standard plate positions. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering and the responsibility of the Building Designer per ANSI/TPI 1 Sec. 2. For more information see: This job's general notes page; ITW-BCG; www.itwbcg.com; TPI: www.tpinet.org; WTCA: www.alcindustry.com; ICC: www.iccsafe.org	TC DL	10.0 PSF	DATE	01/22/13	
		BC DL	10.0 PSF	DRW	HCUSR215	13022004
		BC LL	0.0 PSF	HC-ENG	KD/AP	
		TOT.LD.	40.0 PSF	SEQN-	362580	
		DUR.FAC.	1.25	FROM	CDM	
		SPACING	24.0"	JREF-	1UT3215_Z01	

Top chord 2x4 SP SS 12A :T2, T3 2x6 SP SS 12A:

Bot chord 2x6 SP SS 12A

Webs 2x4 SP #2 N 12A

:Lt Wedge 2x4 SP #2 N 12A::Rt Wedge 2x4 SP #2 N 12A:

Lumber grades designated with "12A" use design values approved 1/5/2012 by ALSC.

Brg blocks:0.131"x3", min. nails
brg x-loc #blocks length/blk #nails/blk wall plate
1 0.000' 1 12" 5 Rigid Surface
2 37.458' 1 12" 5 Rigid Surface
Brg block to be same size and species as chord.
Refer to drawing CNAALSP0109 for more information.

130 mph wind, 15.00 ft mean hgt, ASCE 7-10, CLOSED bldg, not located within 9.00 ft from roof edge. RISK CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=5.0 psf. GCpi(-/-)=0.18

Calculated horizontal deflection is 0.13" due to live load and 0.18" due to dead load.

Bottom chord checked for 10.00 psf non-concurrent live load.

Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.

The overall height of this truss excluding overhang is 3-10-3.

Special loads

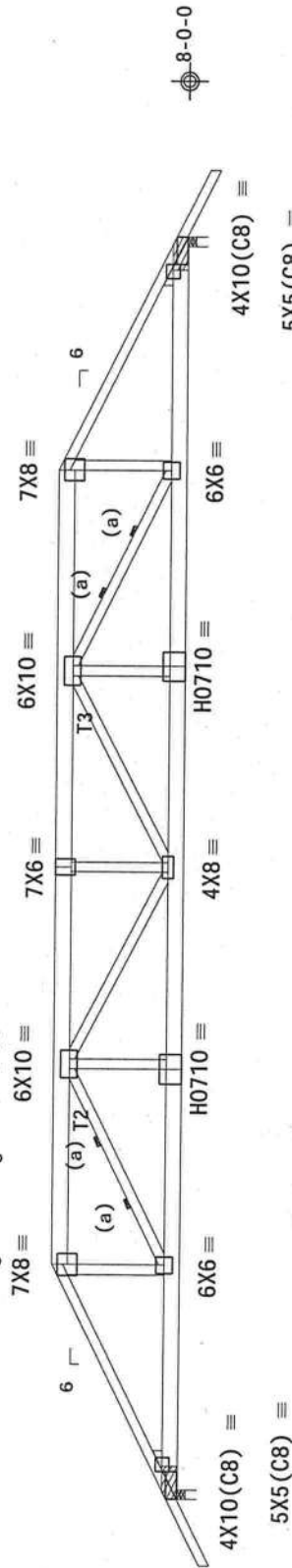
(Lumber Dur.Fac.=1.25 / Plate Dur.Fac.=1.25)
TC- From 60 pif at -2.00 to 60 pif at 7.00
TC- From 30 pif at 7.00 to 30 pif at 30.75
TC- From 60 pif at 30.75 to 60 pif at 39.75
BC- From 4 pif at -2.00 to 4 pif at 0.00
BC- From 20 pif at 0.00 to 20 pif at 7.03
BC- From 10 pif at 7.03 to 10 pif at 30.72
BC- From 20 pif at 30.72 to 20 pif at 37.75
BC- From 4 pif at 37.75 to 4 pif at 39.75
TC- 250.02 lb Conc. Load at 7.03,30.72
TC- 175.74 lb Conc. Load at 9.06,11.06,13.06,15.06
17.06,18.88,20.69,22.69,24.69,26.69,28.69
BC- 419.98 lb Conc. Load at 7.03,30.72
BC- 126.06 lb Conc. Load at 9.06,11.06,13.06,15.06
17.06,18.88,20.69,22.69,24.69,26.69,28.69

Wind loads and reactions based on MWFRS.

(a) Continuous lateral bracing equally spaced on member.

In lieu of structural panels use purlins to brace all flat TC @ 24"

Calculated vertical deflection is 0.52" due to live load and 0.77" due to dead load at X = 18-10-8.



Design Crit: FBC2010Res/TPI-2007 (STD)
FT/RT=20%(0%)/10(0) QTY
Scale = .1875"/Ft.
REF R215-- 76694
DATE 01/22/13
DRW HCUSR215 13022045
HC-ENG KD/AP
SEQN- 362601
FROM CDM
JREF- 1UT3215_Z01

PLT TYP. 20 Gauge HS, Wave

Design Crit: FBC2010Res/TPI-2007 (STD)

FT/RT=20%(0%)/10(0) QTY

Scale = .1875"/Ft.

REF R215-- 76694

DATE 01/22/13

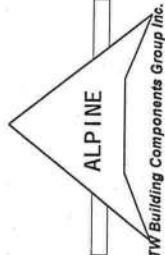
DRW HCUSR215 13022045

HC-ENG KD/AP

SEQN- 362601

FROM CDM

JREF- 1UT3215_Z01



ALPINE

Building Components Group Inc.

Haines City, FL 33844

FL COA #0278



IMPORTANT** FURNISH THIS DESIGN TO ALL CONTRACTORS INCLUDING INSTALLERS.
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Follow the latest edition of BCSI (Building Component Safety Information, by TPI and WTCA) practices prior to performing these functions. Installers shall provide temporary bracing as noted elsewhere. Top chord shall have properly attached structural sheathing and bottom chord shall have properly attached structural sheathing. All connections shall be made in accordance with the ITW Building Components Group Inc. (ITWBCG) shall not be responsible for any deviation from this design. Refer to drawings 160A-2 for standard plate positions. 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 design 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 ITW-BG- www.itwbcg.com, TPI: www.tpiinc.org; WTCA: www.alcindustry.com; TCC: www.tccnafo.org

	Top	chord	2x4	SP_#2	N	12A
Bot	chord	2x4	SP_#2	N	12A	
	webs	2x4	SP_#2	N	12A	

130 mph wind, 15.00 ft mean hgt., ASCE 7-10, CLOSED bldg, not located within 9.00 ft from roof edge, RISK CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=5.0 psf. GCpi (+/-)=0.18

Lumber grades designated with "12A" use design values approved 1/5/2012 by ALSC.

Wind loads and reactions based on MWFRS with additional C&C member design.

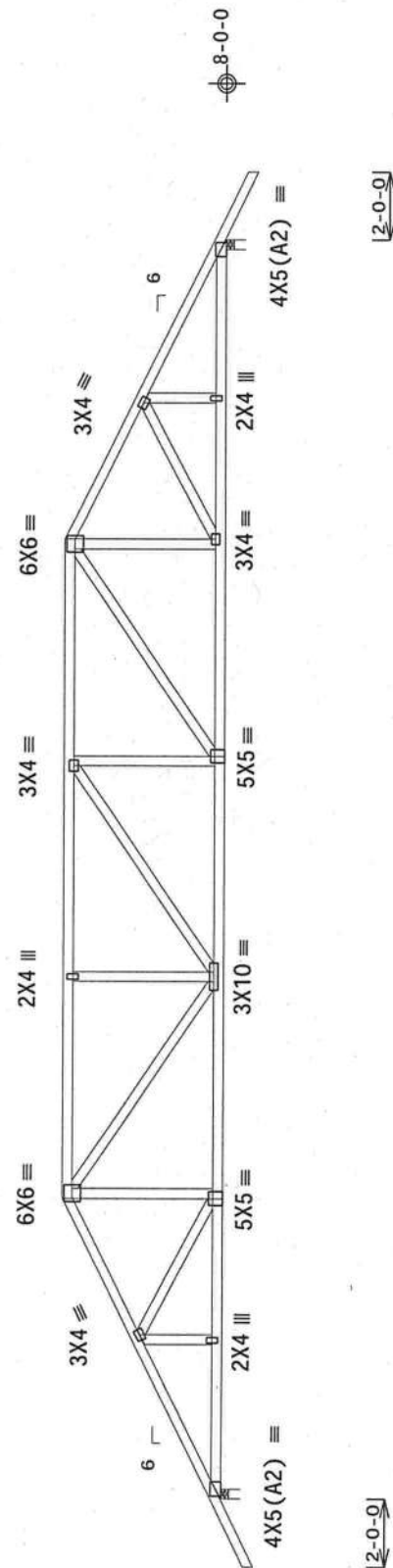
In lieu of structural panels use purlins to brace all flat TC @ 24" OC.

Bottom chord checked for 10.00 psf non-concurrent live load.

The overall height of this truss excluding overhang is 4-10-3.

Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.

WWFRS loads based on trusses located at least 7.50 ft. from roof edge.



9-0-0 19-9-0

37-9-0 Over 2 Supports

R=1639 U=313 W=3.5"
RL=172/-172

R=1639 U=313 W=3.5"

PLT TYP: Wave

Design Crit: FBC2010Res/TP1-2007(ST

No. 70861
19 03 11 0209 30

FL/-/5/-/-/R/-
Scale = .1875"/Ft.

.. IMPORTANT ..

****WARNING** READ AND FOLLOW ALL NOTES ON THIS SHEET!
FURNISH THIS DESIGN TO ALL CONTRACTORS INCLUDING INSTALLERS**

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Proper attention to the design, fabrication, erection of BCSI (Building Component Separation) for trusses is essential. The following are minimum precautions to be taken during the erection of trusses noted above. Top chord shall have properly attached structural steel temporary bracing per the design. Trusses shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint or shall have bracing installed per BCSI sections B3, B7 or B10, as applicable.

ITW Building Components Group Inc. (ITWBCG) shall not be responsible for any deviation from this design. The manufacturer shall be responsible for any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation or erection of the truss. Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. 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 design for any structure is the responsibility of the building designer per ANSI/TPI 1 Sec. 2. For more information see: This Job's Specification, ITW-B60; <http://www.catalog.com>; TPI: www.tpi.net; WCA: www.sdc-industrial.com; www.USASteel.com

ALPINE

ITW Building Components Group Inc.
Haines City, FL 33844
FL COA #0 278

01/22/2013

DUR. FAC.	1.25
SPACING	24.0"

FROM CDM

1

FROM CDM
JREF- 1UT3215 Z01

	SP_#2	N_12A
Top chord	2x4	2x4
Bot chord	2x4	2x4
Web	2x4	2x4

Lumber grades designated with "12A" use design values approved 1/5/2012 by ALSC.

In lieu of structural panels use purlins to brace all flat TC @ 24" OC.

The overall height of this truss excluding overhang is 5-10-3.

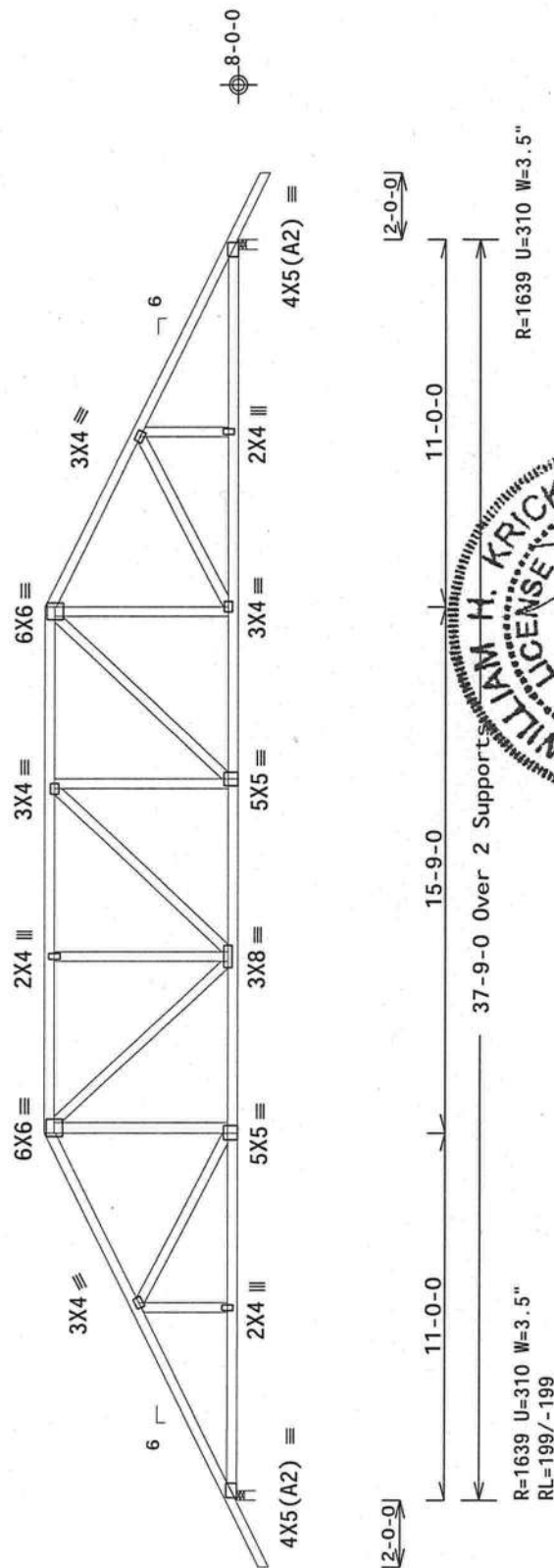
MWFRS loads based on trusses located at least 7.50 ft. from roof edge.

130 mph wind, 15.00 ft mean hgt, ASCE 7-10, CLOSED bldg, not located within 9.00 ft from roof edge, RISK CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=5.0 psf. GCpi (+/-)=0.18

Wind loads and reactions based on MWFRS with additional C&C member design.

Bottom chord checked for 10.00 psf non-concurrent live load.

Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.



PLT TYP. Wave

Design Crit: FBC2010Res/TPI-2007(STD
ET/RT=20%(0%)/10(0)

Scale = .1875"/Ft.

ALPINE

ITW Building Components Group Inc.
Haines City, FL 33844
FL COA #0 278

01/22/2013

PROFESSIONAL ENGINEER
FLORIDA
STATE OF

****WARNING** READ AND FOLLOW ALL NOTES ON THIS SHEET!**

****IMPORTANT** FURNISH THIS DESIGN TO ALL CONTRACTORS INCLUDING INSTALLERS.**

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to the following drawings for all safety information. By ITW and WICA for the purpose of this design, the following practices prior to performing these tasks shall be followed: Trusses shall be installed in accordance with the practices noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid colling. Locations shown for permanent lateral restraint of trusses shall have bracing installed per BCS1 sections B3, B7 or B10, as applicable.

ITW Building Components Group Inc. (ITWB03) shall not be responsible for any deviation from this design or any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation & bracing of trusses. 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. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for this design shown. The liability and use of this design for any structure is the responsibility of the user of this design. This design was created using the software program: ITW Building Components Group Inc. (ITWB03) www.itwbcg.com; TPI: www.tpinet.org; WICA: www.abcdindustry.com; general notes page: ITW-B03; www.itwbcg.com; TPI: www.tpinet.org; WICA: www.abcdindustry.com; TCC: www.tccsafe.org

TC LL	20.0	PSF	REF	R215--	76696
TC DL	10.0	PSF	DATE	01/22/13	
BC DL	10.0	PSF	DRW	HCUSR215	13022007
BC LL	0.0	PSF	HC-ENG	KD/AP	
TOT. LD.	40.0	PSF	SEQN-	362582	
DUR. FAC.	1.25		FROM	CDM	
SPACING	24.0"		JREF-	1UT3215	Z01

Top	chord	2x4	SP	#2	N	12A
30t	chord	2x4	SP <td>#2</td> <td>N</td> <td>12A</td>	#2	N	12A
	Webbs	2x4	SP <td>#2</td> <td>N</td> <td>12A</td>	#2	N	12A

Lumber grades designated with "12A" use design values approved 1/5/2012 by ALSC.

In lieu of structural panels use purlins to brace all flat TC @ 24" OC.

The overall height of this truss excluding overhang is 6-8-7.

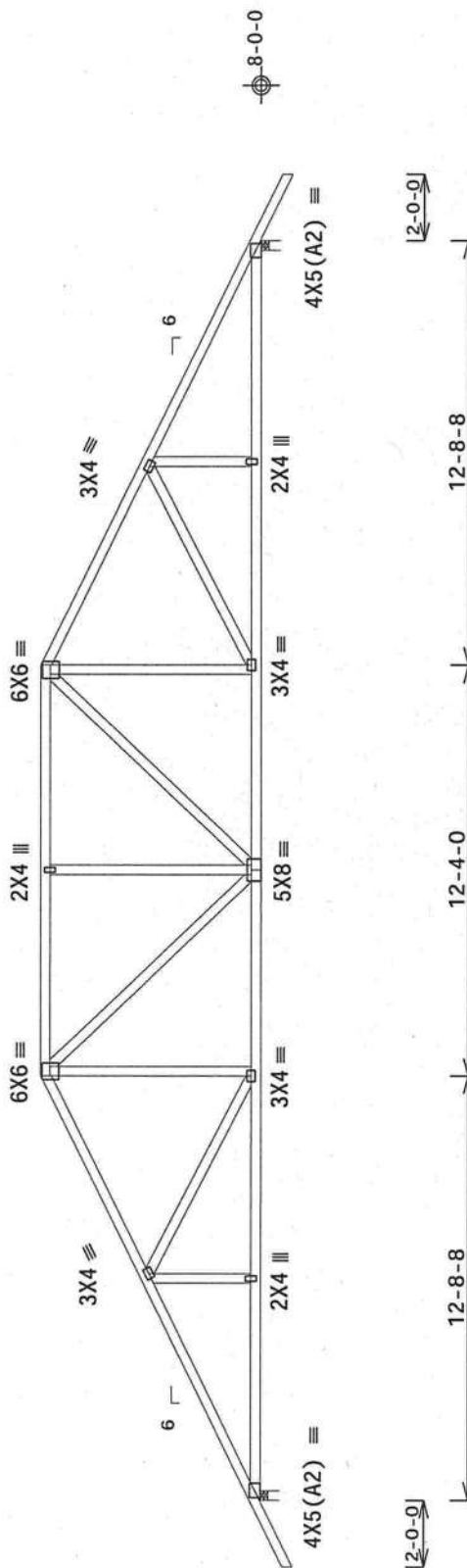
WWFRS loads based on trusses located at least 7.50 ft. from roof edge.

1130 mph wind, 15.00 ft mean hgt, ASCE 7-10, CLOSED bldg, not located within 9.00 ft from roof edge, RISK CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=5.0 psf. GCpi (+/-)=0.18

Wind loads and reactions based on MWFRS with additional C&C member design.

Bottom chord checked for 10.00 psf non-concurrent live load.

Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.



37-9-0 Over 2 Supports.

R=1639 U=308 W=3.5"
RL=222/-222

R=1639 U=308 W=3.5"

PLT TYP. Wave

Design Crit: FBC2010Res/TPI -2007(STD)

10.03: P. 0289 20 FT/RT=20%(0%)/10(0) QTY: 1 FL/-/5/-/-/R/- Scale = .1875" /Ft.

•• IMPORTANT ••

****WARNING** READ AND FOLLOW ALL NOTES ON THIS SHEET!
FURNISH THIS DESIGN TO ALL CONTRACTORS INCLUDING INSTALLERS.**

★

TC LL	20.0 PSF
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REF R215-- 76697

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to the latest edition of BESI (Building Components Safety Information, by TPI and WICA) for instructions on how to perform these functions. Installers shall provide company bracing instructions to the fabricator. Trusses shall be braced in accordance with the following instructions. Trusses shall have a property attached per BSJ sections B3, B7 and B10, as applicable.

ITW Building Components Group Inc. (ITWBC) shall not be responsible for any deviation from this drawing or any resulting conditions. ITWBC shall not be responsible for any details, unless noted otherwise. Apply plates to each face of truss and position as shown above and on the joint. Refer to drawings 100A-Z for standard plate positions. 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 design for any structure is the responsibility of the Building Designer per ANSI/PTI 1 Sec. 2. For more information see: ITWBC's general notes page, ITW-BCC: www.tandem.com; ITWCA: www.slic.indiana.com;

ALPINE
TW Building Components Group Inc.
 Haines City, FL 33844
 FI COA #0 278

01/22/2013

BC LL	0.0 PSF	HC-ENG KD/AP
TOT. LD.	40.0 PSF	SEQN- 362589
DUR. FAC.	1.25	FROM CDM
SPACING	24.0"	JREF- 1UT3215 Z01

2 COMPLETE TRUSSES REQUIRED

Nail Schedule: 0.131"x3", min. nails
Top Chord: 1 Row @12.00" o.c.
Bot. Chord: 1 Row @12.00" o.c.
Webs : 1 Row @ 4" o.c.
 Use equal spacing between rows and
 in each row to avoid splitting.

*** WARNING! Reaction exceeds allowable ***

(**) 2 plate(s) require special positioning. Refer to scaled plate plot details for special positioning requirements.

1130 mph wind, 15.00 ft mean hgt., ASCE 7-10, CLOSED bldg. Located anywhere in roof, RISK CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=5.0 psf. GCpl(+/-)=0.18

Wind loads and reactions based on MWFRS.

Right end vertical not exposed to wind pressure.

Calculated horizontal deflection is 0.13" due to live load and 0.19" due to dead load.

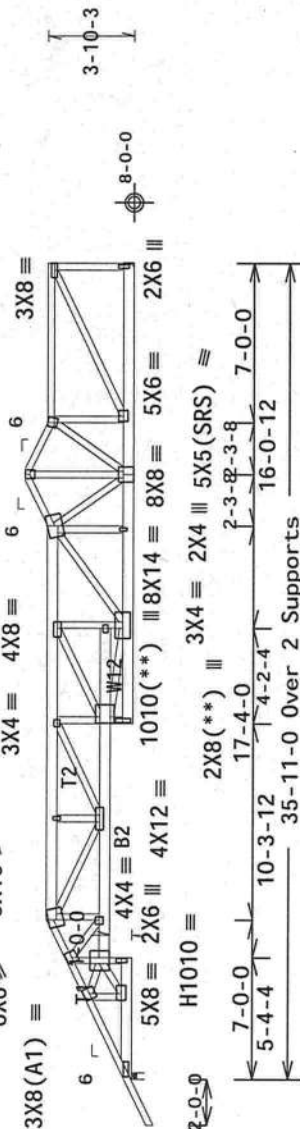
These support conditions used at bearings indicated
(H1) = 11W (KC) HDT28-2 w/ (2)2x8 SP SS_12A supporting member.
Supported Member Face: (8) 0.128"x3" nails
Supporting Member Face: (22) 0.128"x3" nails

Bottom chord checked for 10.00 psf non-concurrent live load.

Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.

The overall height of this truss excluding overhang is 4-10-3.

NOTE: Laterally brace bottom chord above filler at 2'0" O.C. max. including a lateral brace at chord ends.



R=3520 I=678 W=3.5"

PLT TYP. 20 Gauge HS, Wave

Design Crit: FBC2010Res/TPI -2007 (STD)
FT/RT=20%(0%)/10(0%)

QTY: 4 FI / - / 5 / - / - / R / -

Scale = 125"/Et

****WARNING** READ AND FOLLOW ALL NOTES ON THIS SHEET!**
****IMPORTANT** FURNISH THIS DESIGN TO ALL CONTRACTORS INCLUDING METALLERS**

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. The latest edition of BCSI (Building Component Safety Information, by TPI and WITCA) provides the most comprehensive information available for performing these functions. Installers shall provide temporary bracing poles and bracing cables to support the trusses during erection. Trusses shall be properly braced structurally, sheathing and bottom chord bracing shall be installed in accordance with the manufacturer's instructions. Trusses shall have a property attached rigid ceiling. Trusses shall have bracing installed per BCSI sections B3, B7 or B10, as applicable.

ITW Building Components Group Inc. (ITWBCG) shall not be responsible for any deviation from this drawing due to misinterpretation or misuse of the drawing for handling, shipping, installation or other purposes without written approval from ITWBCG. Refer to drawings TUGA-2 for standard plate positions. 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 design for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2. For more information see: general notes page of ITW-BCG; www.itwbcg.com; TPI: www.tpinet.org; WTCA: www.alcindustry.com;

ALPINE

ITW Building Components Group Inc.

Haines City, FL 33844

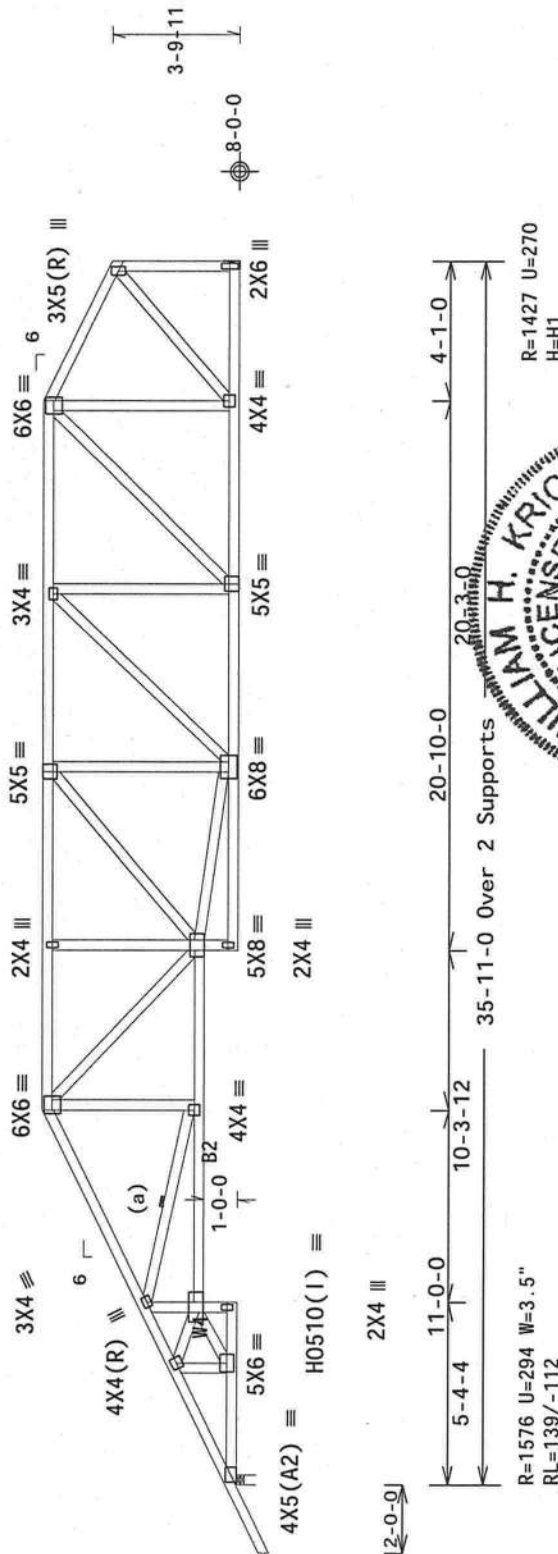
FL COA #0 278

01/22/2013

STATE OF
FLORIDA
PROFESSIONAL ENGINEER

Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.

MWFRS loads based on trusses located at least 7.50 ft. from roof edge.



R=1576 U=294 W=3.5"
RL=139/-112

Design Crit: FBC2010Res/TPI-2007(SD)
 $FT/RT=20\%(0\%)/10(0\%)$

Scale = .1875"/Ft.

ALPINE

ITW Building Components Group Inc.

Haines City, FL 33844
FL COA #0 278

****WARNING** READ AND FOLLOW ALL NOTES ON THIS SHEET!**

****IMPORTANT** FURNISH THIS DESIGN TO ALL CONTRACTORS INCLUDING INSTALLERS.**

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to the following notes and drawings for complete information. by TPI and WCA (and BCG) practices prior to performing these functions. Installers shall provide all necessary bracing 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 shall have bracing installed per BCS1 sections B3, B7 or B10, as applicable.

ITW Building Components Group Inc. (ITWB02) shall not be responsible for any deviation from this design or any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installing or bracing of trusses. 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. A seal on this drawing or cover page listing this drafting, indicating acceptance of professional engineering and the responsibility of the Building Designer per ANSI/TPI 1 Section 8.1. This job's general notes apply. TWP-BCG: www.itwbcg.com TWP-SPINAT: www.spinat.org WCA: www.abcdindustry.com TCC: www.tccsafe.org

01/22/2013

TC LL	20.0	PSF	REF	R215--	76700
TC DL	10.0	PSF	DATE	01/22/13	
BC DL	10.0	PSF	DRW	HCUSR215	13022010
BC LL	0.0	PSF	HC-ENG	KD/AP	
TOT. LD.	40.0	PSF	SEQN-	362712	
DUR. FAC.	1.25		FROM	CDM	
SPACING	24.0"		JREF-	1UT3215	Z01

130 mph wind, 15.00 ft mean hgt, ASCE 7-10, CLOSED bldg, not located within 9.00 ft from roof edge, RISK CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=5.0 psf. GCpi (+/-)=0.18

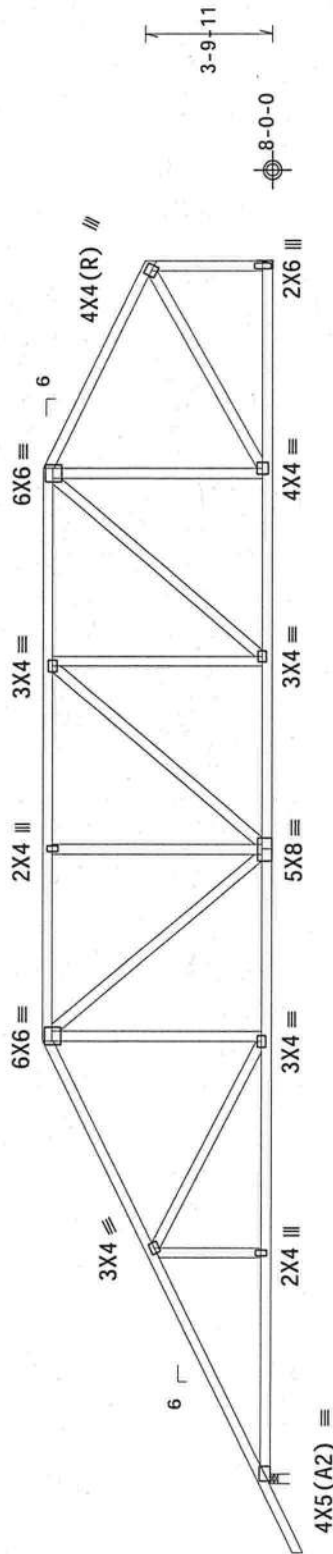
Wind loads and reactions based on MWFRS with additional C&C member design.

Right end vertical not exposed to wind pressure.

In lieu of structural panels use purlins to brace all flat TC @ 24" OC.

Bottom chord checked for 10.00 psf non-concurrent live load.

The overall height of this truss excluding overhang is 6-10-3.



2-0-0

13-0-0 16-10-0 6-1-0

35-11-0 Over 2 Supports

R=1576 U=122 W=3.5"
RL=165/-139

R=1427 U=108
H=H1

WILLIAM H. KRICK
LICENSED

PLT TYP.: Wave

Design Crit: FBC2010Res/TPI-2007(STP)

Scale = .1875"/Ft.

ALPINE

ITW Building Components Group Inc.

Haines City, FL 33844
FL COA #0 278

STATE OF FLORIDA

PROFESSIONAL ENGINEER

01/22/2013

****IMPORTANT** READ AND FOLLOW ALL NOTES ON THIS SHEET!**

FURNISH THIS DESIGN TO ALL CONTRACTORS INCLUDING INSTALLERS.

Trusses require extreme care in fabricating, handling, shipping, installing and bracing for and follow the latest edition of BC51 (Building Component Safety) in accordance with TPI and WCA. 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 shall have bracing installed per BC51 sections 83, 87 or 810, as applicable.

ITW Building Components Group Inc. (ITWBCG) shall not be responsible for any deviation from this design or any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation, bracing of trusses. 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. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering and the responsibility of the Building Designer per ANSI/TPI 1 Section 2. This job's general notes page: ITW-BCG: www.itwbcg.com; TPI: www.tpiinst.org; WCA: www.abcdindustry.com; TCC: www.tccsafe.org

TC LL	20.0 PSF	REF	R215--	76701
TC DL	10.0 PSF	DATE	01/22/13	
BC DL	10.0 PSF	DRW	HCUSR215	13022011
BC LL	0.0 PSF	HC-ENG	KD/AP	
TOT.LD.	40.0 PSF	SEQN-	362684	
DUR.FAC.	1.25	FROM	CDM	
SPACING	24.0"	JREF-	1UT3215	Z01

Top chord 2x4 SP #2 N 12A
Bot chord 2x4 SP #2 N 12A
Webs 2x4 SP #2 N 12A

Lumber grades designated with "12A" use design values approved 1/5/2012 by ALSC.

These support conditions used at bearings indicated (H1) = ITW (KC) ATH29 w/ (2)2x8 SP SS 12A supporting member.
Supported Member Face: (4) 0.131"x1.5" nails
Supporting Member Face: (8) 0.128"x3" nails
Supporting Member Top: (4) 0.128"x3" nails

Bottom chord checked for 10.00 psf non-concurrent live load.

The overall height of this truss excluding overhang is 7-10-3.

MWFRS loads based on trusses located at least 15.00 ft. from roof edge.

130 mph wind, 15.00 ft mean hgt, ASCE 7-10, CLOSED bldg, not located within 9.00 ft from roof edge, RISK CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=5.0 psf, GCPI(+/-)=0.18

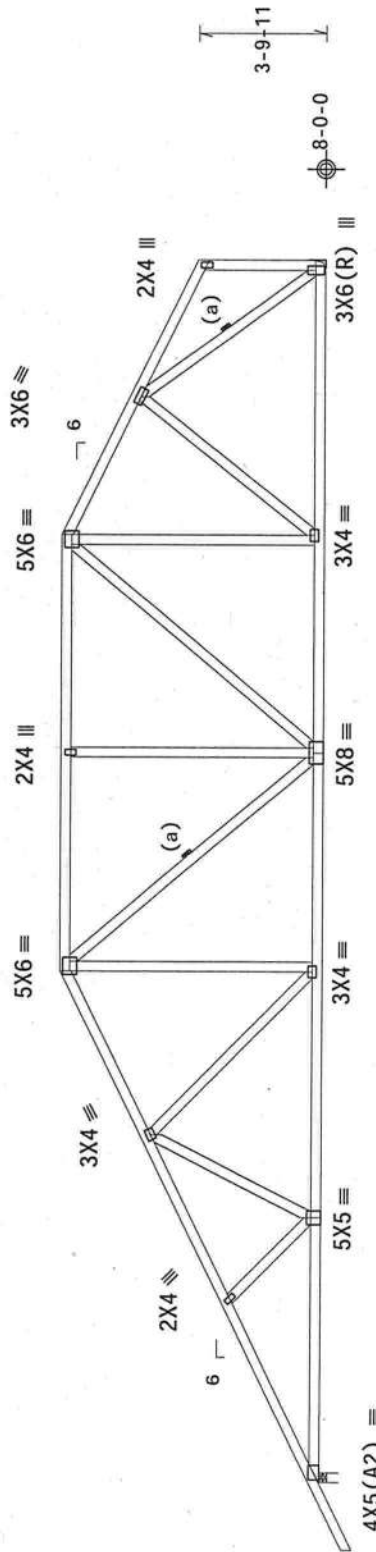
Wind loads and reactions based on MWFRS with additional C&C member design.

Right end vertical not exposed to wind pressure.

(a) Continuous lateral bracing equally spaced on member.

In lieu of structural panels use purlins to brace all flat TC @ 24" OC.

Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.



[2-0-0]

15-0-0 12-10-0 8-1-0
35-11-0 Over 2 Supports
R=1576 U=114 W=3.5"
RL=192/-165
R=1427 U=76
H=H1

PLT TYP. Wave

Design Crit: FBC2010Res/TPI-2007(S&D)

FT/RT=20%(0%)/10(0)

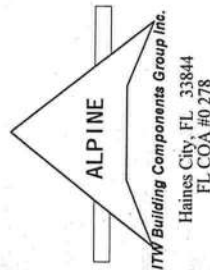
FL/-5/-/-/R/-

Scale = .1875"/Ft.

WARNING READ AND FOLLOW ALL NOTES ON THIS SHEET

FURNISH THIS DESIGN TO ALL CONTRACTORS INCLUDING INSTALLERS.
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Follow the latest edition of BCSI (Building Component Safety Information, by TPI and WFA) practices prior to performing these functions. Installers shall provide temporary bracing and shall have a properly attached rigid ceiling. Locations shown for permanent lateral bracing shall have bracing installed per BCSI sections 83, 87 or 810, as applicable.

ITW Building Components Group Inc. (ITWBCG) shall not be responsible for any deviation from this design. The truss is designed and manufactured in accordance with the design and on the Joint Venture. Refer to drawings 160A-2 for standard plate connections. Details, unless noted otherwise, indicate acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this design 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: ITW-BCG: www.itwbcg.com; TPI: www.tpiinc.org; WTC: www.sbcindustry.com; IBC: www.international.org



TC LL	20.0 PSF	REF	R215-- 76702
TC DL	10.0 PSF	DATE	01/22/13
BC DL	10.0 PSF	DRW	HCUSR215 13022012
BC LL	0.0 PSF	HC-ENG	KD/AP
TOT.LD.	40.0 PSF	SEQN-	362686
DUR.FAC.	1.25	FROM	CDM
SPACING	24.0"	JREF-	1UT3215_Z01

Top chord 2x4 SP #2 N 12A
Bot chord 2x4 SP #2 N 12A :B2 2x4 SP_SS_12A:
Webs 2x4 SP #2 N 12A

Lumber grades designated with "12A" use design values approved 1/5/2012 by ALSC.

These support conditions used at bearings indicated (H1) = ITW (KC) ATH29 w/ (2)2x8 SP_SS_12A supporting member.
Supported Member Face: (4) 0.131"x1.5" nails
Supporting Member Face: (8) 0.128"x3" nails
Supporting Member Top: (4) 0.128"x3" nails

Bottom chord checked for 10.00 psf non-concurrent live load.

The overall height of this truss excluding overhang is 8-10-3.

MWFRS loads based on trusses located at least 15.00 ft. from roof edge.

130 mph wind, 15.00 ft mean hgt, ASCE 7-10, CLOSED bldg, not located within 9.00 ft from roof edge, RISK CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=5.0 psf. GCPI (+/-)=0.18

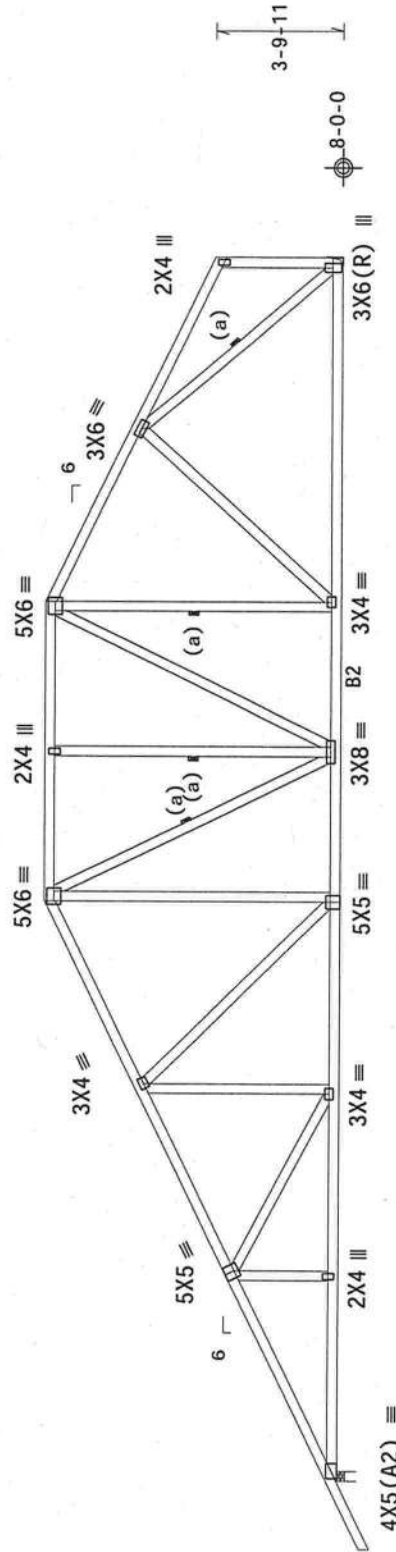
Wind loads and reactions based on MWFRS with additional C&C member design.

Right end vertical not exposed to wind pressure.

(a) Continuous lateral bracing equally spaced on member.

In lieu of structural panels use purlins to brace all flat TC @ 24" OC.

Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.



[2-0-0]

17-0-0 8-10-0 10-1-0
R=1576 U=102 W=3.5"
RL=218/-192
R=1427 U=48
H=H1

PLT TYP. Wave

Design Crit: FBC2010Res/TPI-2007 (STD)

FT/RT=20%(0%)/10(0)

Scale = .1875"/Ft.

TC LL	20.0 PSF	REF	R215-- 76703
TC DL	10.0 PSF	DATE	01/22/13
BC DL	10.0 PSF	DRW	HCUSR215 13022013
BC LL	0.0 PSF	HC-ENG	KD/AP
TOT.LD.	40.0 PSF	SEQN-	362688
DUR.FAC.	1.25	FROM	CDM
SPACING	24.0"	JREF-	1UT3215_Z01

WARNING READ AND FOLLOW ALL NOTES ON THIS SHEET!

FURNISH THIS DESIGN TO ALL CONTRACTORS INCLUDING INSTALLERS.

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Follow the latest edition of BCSI (Building Component Safety Information, by TPI and WTCA) for practices prior to performing these functions. Installers shall provide temporary bracing per details 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 truss shall have bracing installed per BCSI sections 83, 87 or 810, as applicable.

ITW Building Components Group Inc. (ITWBCG) shall not be responsible for any deviation from this design. Trusses are to be built in conformance with ANSI/TPI 1, or for handling, shipping, installation and erection. Trusses are to be installed in the position shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-2 for details. The design is the responsibility of the Building Designer per ANSI/TPI 1 Sec. 2. For more information see: This job's general notes page: ITW-BCG: www.itwbcg.com; TPI: www.tpinet.org; WTCA: www.sbcindustry.com; IBC: www.iccsafe.org



ALPINE
ITW Building Components Group Inc.
Haines City, FL 33844
FL COA #0278

Top chord 2x4 SP_#2_N_12A
Bot chord 2x4 SP_#2_N_12A
Webs 2x4 SP_#2_N_12A

Lumber grades designated with "12A" use design values approved 1/5/2012 by ALSC.

These support conditions used at bearings indicated (H1) = ITW (KC) ATH29 w/ (2)2x8 SP SS 12A supporting member.
Supported Member Face: (4) 0.131"x1.5" nails
Supporting Member Face: (8) 0.128"x3" nails
Supporting Member Top: (4) 0.128"x3" nails

Bottom chord checked for 10.00 psf non-concurrent live load.

The overall height of this truss excluding overhang is 9-10-3.

MWFRS loads based on trusses located at least 15.00 ft. from roof edge.

130 mph wind, 15.00 ft mean hgt, ASCE 7-10, CLOSED bldg, not located within 9.00 ft from roof edge, RISK CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=5.0 psf. GCpi (+/-)=0.18

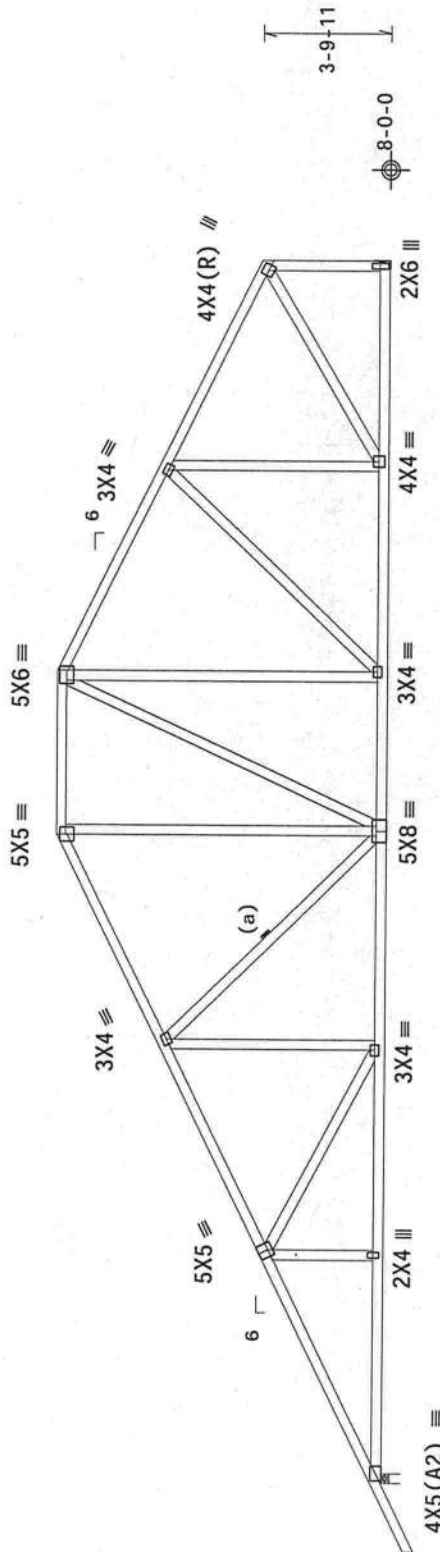
Wind loads and reactions based on MWFRS with additional C&C member design.

Right end vertical not exposed to wind pressure.

(a) Continuous lateral bracing equally spaced on member.

In lieu of structural panels use purlins to brace all flat TC @ 24" OC.

Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.



1/2"=1'-0"

19-0-0 4-10-0 12-1-0
35-11-0 Over 2 Supports
R=1576 U=81 W=3.5"
RL=245/-218
R=1427 U=31
H=H1

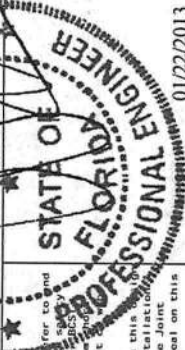
PLT TYP. Wave

Design Crit: FBC2010Res/TPI-2007(STB)

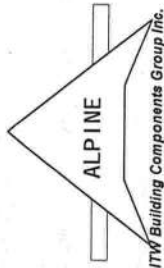
FT/RT=20%(0%)/10(0)

Scale = .1875"/Ft.

TC LL	20.0 PSF	REF	R215--	76704
TC DL	10.0 PSF	DATE	01/22/13	
BC DL	10.0 PSF	DRW	HCUSR215	13022014
BC LL	0.0 PSF	HC-ENG	KD/AP	
TOT.LD.	40.0 PSF	SEQN-	362690	
DUR.FAC.	1.25	FROM	CDM	
SPACING	24.0"	JREF-	1UT3215_Z01	



****WARNING**** READ AND FOLLOW ALL NOTES ON THIS SHEET.
FURNISH THIS DESIGN TO ALL CONTRACTORS INCLUDING INSTALLERS.
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Follow the latest edition of BCSI (Building Component Safety Information, by TPI and WCA) for details and practices prior to performing these functions. Installers shall provide temporary bracing and bracing unless noted otherwise. Top chord shall have properly attached structural sheathing and bottom chord shall have bracing installed per BCSI sections B3, B7 or B10, as applicable.
ITW Building Components Group Inc. (ITWBCG) shall not be responsible for any deviation from this design. Any failure to build the truss in accordance with ANSI/TPI 1, or for handling, shipping, installation, or use of the truss in a position as shown above and on the Joint Details, unless noted otherwise. Refer to 1804.2 indicates acceptance of professional responsibility solely for the design shown. The suitability and use of this design 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; ITW-BCG: www.itwbcg.com; TPI: www.tpinet.org; WCA: www.sbcindustry.com; IBC: www.ircsafe.org



	Top chord	2x4	SP_#2	N_12A
	Bot chord	2x4	SP_#2	N_12A
	Webs	2x4	SP_#2	N_12A

Lumber grades designated with "12A" use design values approved 1/5/2012 by ALSC.

These support conditions used at bearings indicated (H1) = ITW (KC) ATH29 w/ (2)2x8 SP_SS_12A supporting member.

Supported Member Face: (4) 0.131"x1.5" nails
Supporting Member Face: (8) 0.128"x3" nails
Supporting Member Top: (4) 0.128"x3" nails

Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.

130 mph wind, 15.00 ft mean hgt., ASCE 7-10, CLOSED bldg, not located within 9.00 ft from roof edge, RISK CAT 11, EXP C, wind TC DL=5.0 psf, wind BC DL=5.0 psf. GCpi (+/-)=0.18

Wind loads and reactions based on MWFRS with additional C&C member design.

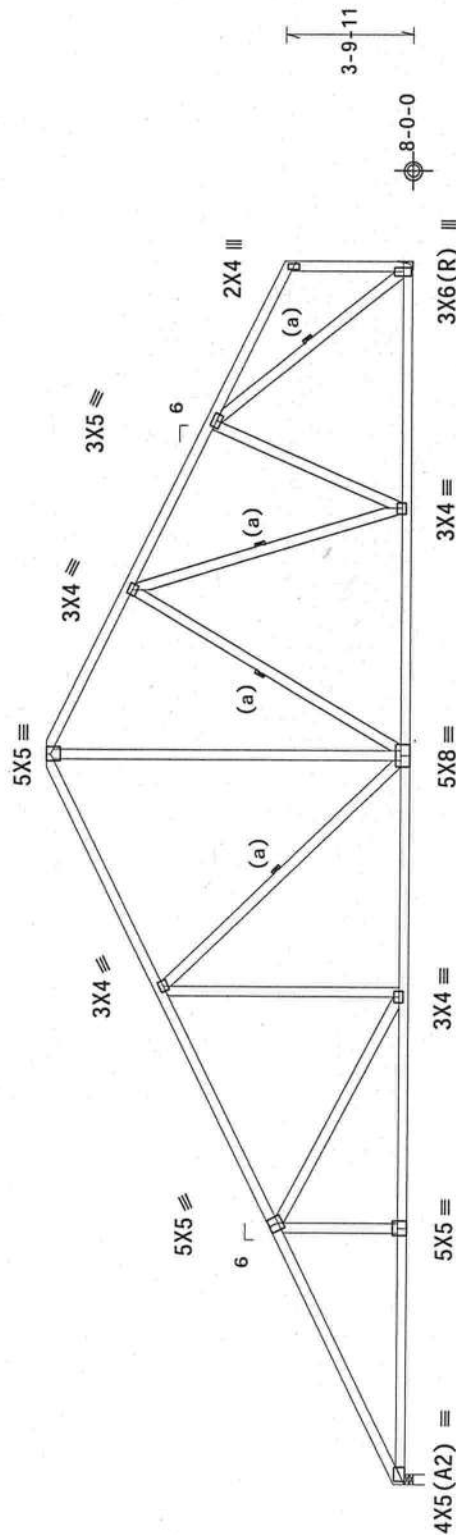
Right end vertical not exposed to wind pressure.

(a) Continuous lateral bracing equally spaced on member.

Bottom chord checked for 10.00 psf non-concurrent live load.

The overall height of this truss excluding overhang is 10-10-3.

MWFRS loads based on trusses located at least 15.00 ft. from roof edge.



21-5-0 14-6-0 35-11-0 Over 2 Supports

R=1443 U=30 W=3.5"
RL=253/-212

WILLIAM H. KRICK
LICENSE

R=1431 U=27
H=H1

PLT TYP. Wave

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS SHEET!
FURNISH THIS DESIGN TO ALL CONTRACTORS INCLUDING INSTALLERS

IMPORTANT: Please require extreme care in fabricating, handling, shipping, installing and bracing. Refer to the following the latest edition of BCSI Building Component Safety Information, by TPI and WITCA) for details regarding the installation of these functions. Installers shall provide temporary bracing per drawings shown otherwise, top and bottom chord bracing and blocking and bottom chord bracing as shown otherwise. All members shall have a properly attached rigid collar. Locations shown for permanent clearest of members shall have bracing installed per BCSI sections B3, B7 or B10, as applicable.

[illegible]

Design Crit: FBC2010Res/PI-2007(SID)

NOTES ON THIS SHEET:
1. INCLUDES INSTALLERS

ing, shipping, installing and bracing. Refer to and
Safety Information for T-01 and T-02.

attached structural sheathing and bottom chord

ons shown for permanent lateral restraint of
or B10, as applicable.

Not be responsible for any deviation from this document.
SI/TP1 1, or for handling, shipping, installation and

60A-Z for standard plate positions. A seal on this acceptance of professional engineering

responsibility for professional engineering, reliability and use of this design for any structure is TPI 1 Sec.2. For more information see: This job's

-tpinst.org; WTCA: www.sbcindustry.com;

100

ALPINE

ITW Building Components Group Inc.
Haines City, FL 33844
FL COA #0 278

Top chord 2x4 SP #2 N 12A
Bot chord 2x4 SP #2 N 12A
Webs 2x4 SP #2 N 12A

130 mph wind, 15.00 ft mean hgt, ASCE 7-10, CLOSED bldg, not located within 9.00 ft from roof edge, RISK CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=5.0 psf. GCPI (+/-)=0.18

Lumber grades designated with "12A" use design values approved 1/5/2012 by ALSC.

Wind loads and reactions based on MWFRS with additional C&C member design.

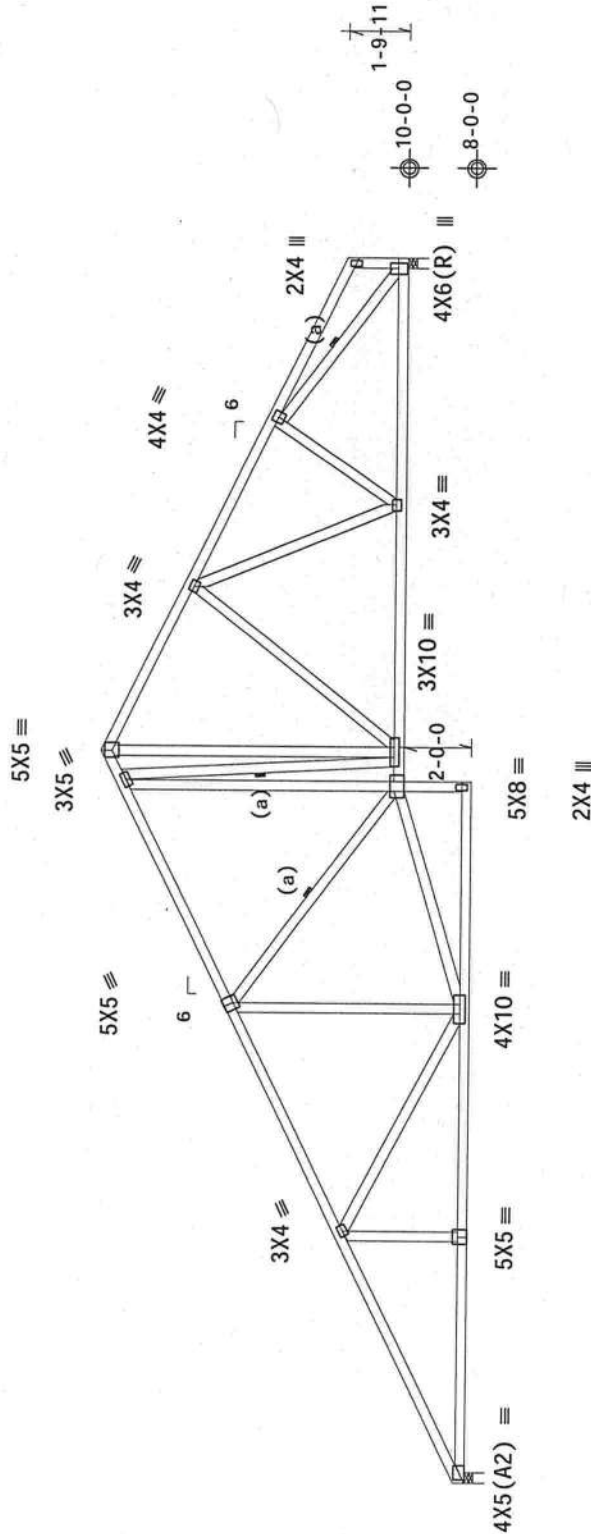
(a) Continuous lateral bracing equally spaced on member.

Bottom chord checked for 10.00 psf non-concurrent live load.

Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.

The overall height of this truss excluding overhang is 11'-0"-11'.

MWFRS loads based on trusses located at least 15.00 ft. from roof edge.



21-5-0
20-6-12
35-11-0 Over 2 Supports
R=1443 U=29 W=3.5"
RL=257/-217
R=1431 U=28 W=3.5"

PLT TYP. Wave

Design Crit: FBC2010Res/TPI-2007 (S13)

Scale = .1875" / Ft.

TC LL	20.0 PSF	REF	R215-- 76706
TC DL	10.0 PSF	DATE	01/22/13
BC DL	10.0 PSF	DRW	HCUSR215 13022016
BC LL	0.0 PSF	HC-ENG	KD/AP
TOT.LD.	40.0 PSF	SEQN-	362714
DUR.FAC.	1.25	FROM	CDM
SPACING	24.0"	JREF-	1UT3215_Z01

WARNING READ AND FOLLOW ALL NOTES ON THIS SHEET!

FURNISH THIS DESIGN TO ALL CONTRACTORS INCLUDING INSTALLERS. Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Follow the latest edition of BCSI (Building Component Safety Information, by TPI and WTC) for best practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Truss chords shall have a properly attached structural sheathing and bottom chord shall have a properly attached structural sheathing for permanent lateral restraint. Trusses shall have bracing installed per BCSI sections B3, B7 or B10, as applicable.

ITW Building Components Group Inc. (ITWBCG) shall not be responsible for any deviation from this design for handling, shipping, installation, or bracing of trusses. Apply plates to each face of truss and position details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. 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 design 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 ITW-600: www.itwbcg.com; TPI: www.tpinet.org; WTC: www.sbcindustry.com; ICC: www.iccsafe.org



ALPINE
ITW Building Components Group Inc.
Haines City, FL 33844
FL COA #0278

130 mph wind, 15.00 ft mean hgt, ASCE 7-10, CLOSED bldg, not located within 9.00 ft from roof edge, RISK CAT 11, EXP C, wind TC DL=5.0 psf, wind BC DL=5.0 psf, GCpi (+/-)=0.18

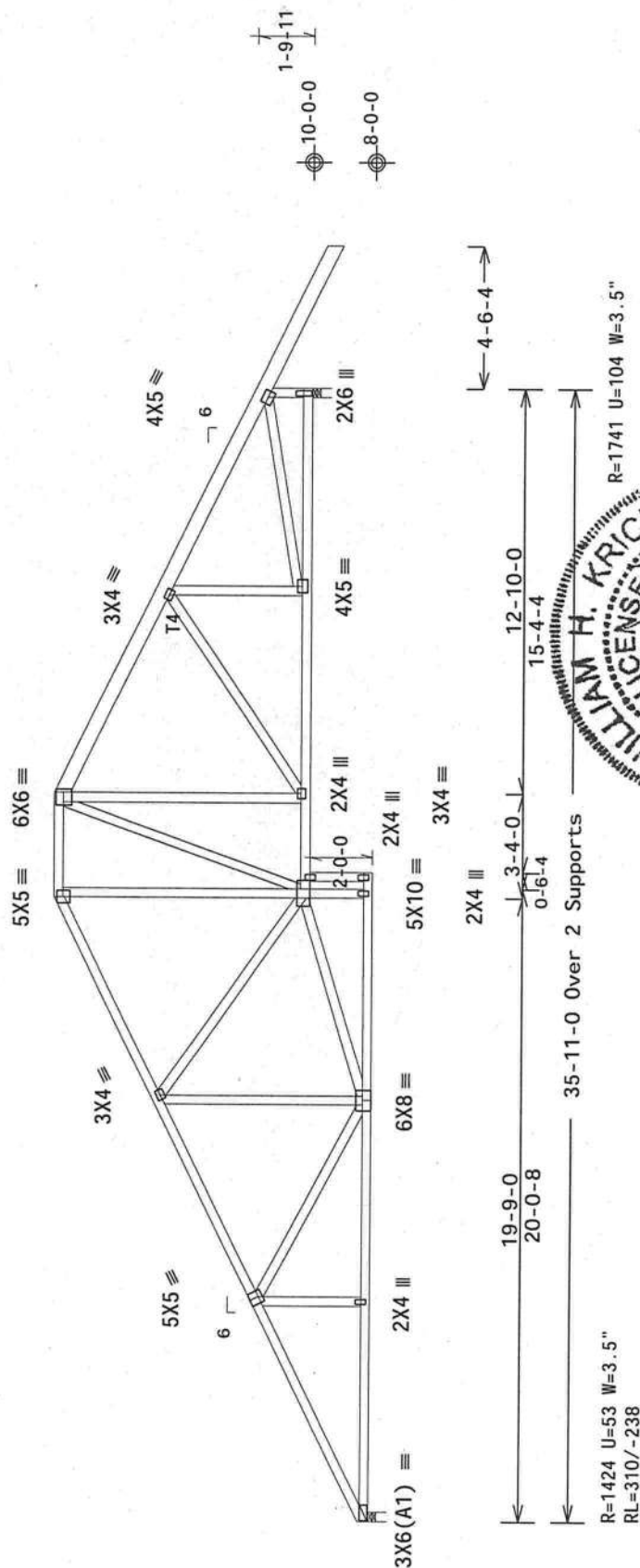
Lumber grades designated with "12A" use design values approved 1/5/2012 by ALSC.

Bottom chord checked for 10.00 psf non-concurrent live load.

Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.

Top chord overhangs have been checked only for loads as indicated. Overhangs not checked for man loads or long-term deflection.

Top chord overhangs have been checked only for loads as indicated. Overhangs not checked for man loads or long-term deflection.



R=1424 U=53 W=3.5"
RL=310/-238

PLT TYP. Wave

Design Crit: FBC2010Res/TPI-2007(ST
FT/RT=20%(0%)/10(0)

Scale = .1875"/Ft.

ALPINE

ITW Building Components Group Inc.

Haines City, FL 33844

FL COA #0 278

REF	R215--	76707	
DATE	01/22/13		
DRW	HCUSR215	13022017	
HC-ENG	KD/AP		
SEQN-	362742		
FROM	CDM		
JREF-	1UT3215	Z01	

****WARNING** READ AND FOLLOW ALL NOTES ON THIS SHEET!**

****IMPORTANT** FURNISH THIS DESIGN TO ALL CONTRACTORS INCLUDING INSTALLERS.**

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. For standard practices prior to performing these functions, installers shall provide temporary bracing per BCSI (Building Component Safety Information, by TPI and WCA) and follow the latest edition of BCSI (Building Component Safety Information, by TPI and WCA) and follow the latest edition of BCSI (Building Component Safety Information, by TPI and WCA). 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 only. Trusses shall have bracing installed per BCSI sections B3, B7 or B10, as applicable.

ITW Building Components Group Inc. (ITWBCG) shall not be responsible for any deviation from this design, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation, bracing of trusses. Apply plates to each face of truss and position as shown above and on the Joint Bracing of Trusses. Notes needed otherwise. Refer to drawings 100A-Z for standard plate positions. A seal on this drawing or truss is required. The responsibility of professional engineering is hereby assumed. The responsibility of the Building Designer per ANSI/TPI 1 Sec. 2. For more information see: This job's general notes page: www.itwbcg.com; www.tpi.net; www.wca.net; www.bcsiindustry.com; www.iccaafe.org

01/22/2013

STATE OF FLORIDA

PROFESSIONAL ENGINEER

(8025--/DERRINGTON PROPERTIES /Plumb Level Construction -- LAKE CITY, FL - G10)

Top chord 2x4 SP_#2_N_12A :T1 2x4 SP_SS_12A:
:T4 2x6 SP_SS_12A:
Bot chord 2x4 SP_SS_12A :B2 2x4 SP_#2_N_12A:
Webs 2x4 SP_#2_N_12A
:Lt Slider 2x4 SP_#2_N_12A: BLOCK LENGTH = 3.580'

Lumber grades designated with "12A" use design values approved 1/5/2012 by ALSC.

In lieu of structural panels use purlins to brace all flat TC @ 24"

The overall height of this truss excluding overhang is 7-9-7.

MWFRS loads based on trusses located at least 15.00 ft. from roof edge.

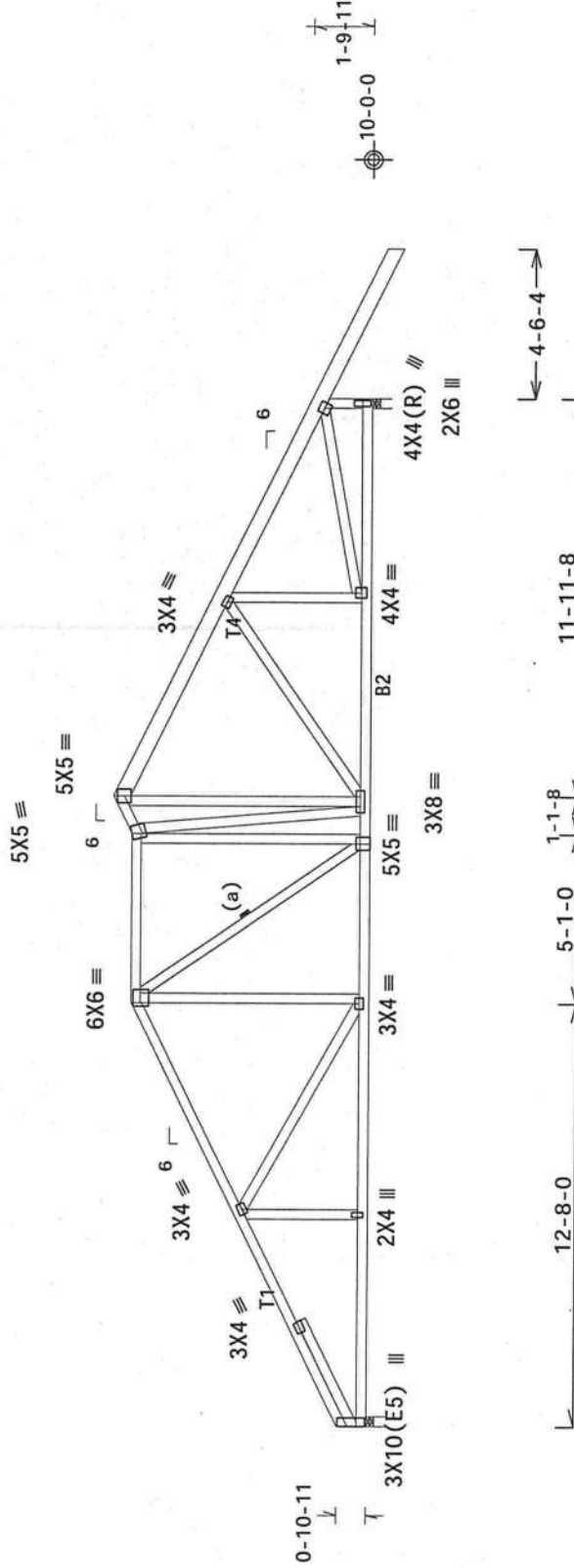
130 mph wind, 15.00 ft mean hgt, ASCE 7-10, CLOSED bldg, not located within 9.00 ft from roof edge, RISK CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=5.0 psf. GCPI (+/-)=0.18

Wind loads and reactions based on MWFRS with additional C&C member design.

(a) Continuous lateral bracing equally spaced on member.

Bottom chord checked for 10.00 psf non-concurrent live load.

Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.



Design Crit: FBC2010Res/TPI-2007(SD)
FT/RT=20%(0%)/10(0)

PLT TYP. Wave

Scale = .1875"/Ft.

TC LL	20.0 PSF	REF	R215--	76708
TC DL	10.0 PSF	DATE	01/22/13	
BC DL	10.0 PSF	DRW	HCUSR215	13022018
BC LL	0.0 PSF	HC-ENG	KD/AP	
TOT.LD.	40.0 PSF	SEQN-	362748	
DUR.FAC.	1.25	FROM	CDM	
SPACING	24.0"	JREF-	1UT3215_Z01	

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS SHEET.
FURNISH THIS DESIGN TO ALL CONTRACTORS INCLUDING INSTALLERS.
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Follow the latest edition of BCSI (Building Component Safety Information, by TPI and WTCA) practices prior to performing these functions. Installers shall provide temporary bracing and shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint shall have bracing installed per BCSI sections B3, B7 or B10, as applicable.
ITW Building Components Group Inc. (ITWBCG) shall not be responsible for any deviation from this design or any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installing and bracing. The user of this design shall be responsible for the safety of the structure. The suitability and use of this design 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: ITW-BCG: www.itwbcg.com; TPI: www.tpinat.org; WTCA: www.sbcindustry.org; ICC: www.iccsafe.org

ALPINE
ITW Building Components Group Inc.
Haines City, FL 33844
FL COA #0278

(8025--/DERRINGTON PROPERTIES /Plumb Level Construction -- LAKE CITY, FL - G11)

Top chord 2x4 SP #2_N_12A :T5 2x6 SP_SS_12A:
Bot chord 2x4 SP #2_N_12A
Webs 2x4 SP #2_N_12A

130 mph wind, 15.00 ft mean hgt, ASCE 7-10, CLOSED bldg, not located within 9.00 ft from roof edge, RISK CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=5.0 psf. GCpl (+/-)=0.18

Lumber grades designated with "12A" use design values approved 1/5/2012 by ALSC.

Wind loads and reactions based on MWFRS with additional C&C member design.

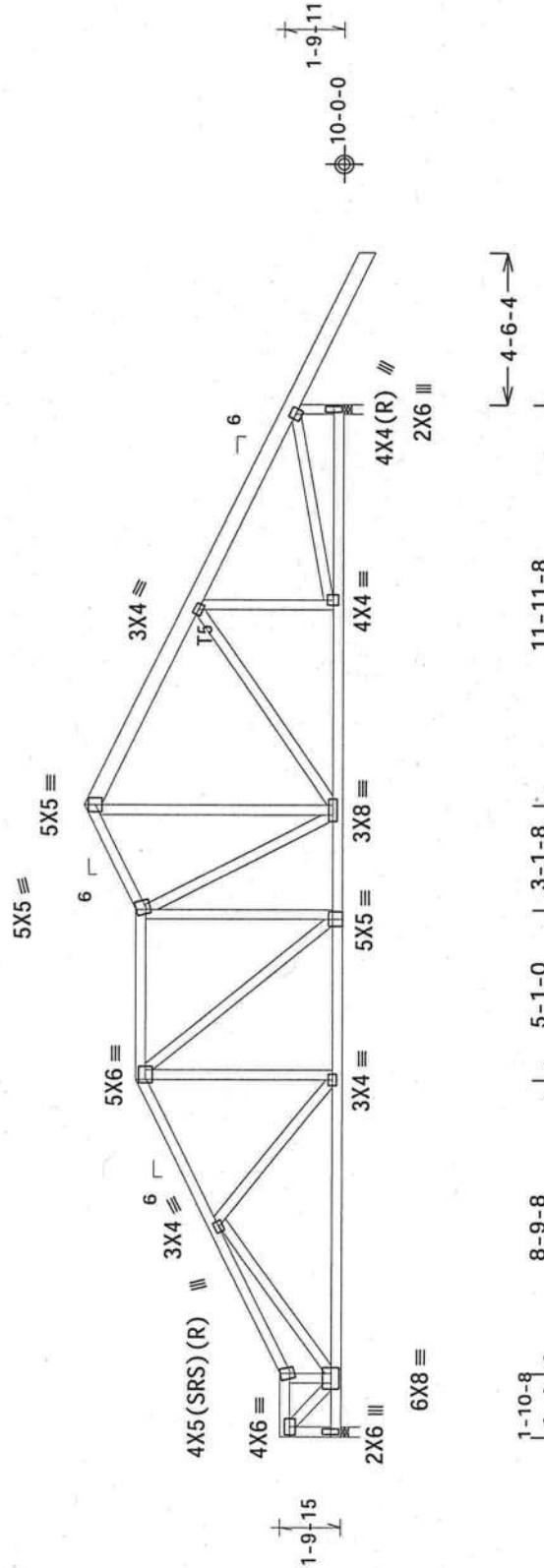
In lieu of structural panels use purlins to brace all flat TC @ 24"

Bottom chord checked for 10.00 psf non-concurrent live load.

The overall height of this truss excluding overhang is 7-9-7.

Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.

MWFRS loads based on trusses located at least 15.00 ft. from roof edge.



Design Crit: FBC2010Res/TPI-2007(STB)
FT/RT=20%(0%)/10(0)

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS SHEET.
FURNISH THIS DESIGN TO ALL CONTRACTORS INCLUDING INSTALLERS.
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Follow the latest edition of BCS (Building Components Systems) for all details. 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 trusses shall have bracing installed per BCS sections B3, B7 or B10, as applicable.
ITW Building Components Group Inc. (ITWBCG) shall not be responsible for any deviation from this design or any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation or bracing of trusses. Apply plates to each face of truss and position as shown above and on the Joint Bracing Detail. Trusses shall be braced for standard bracing positions. A seal on this drawing or cover page listing this drawing indicates acceptance of responsibility 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: ITW-BCG: www.itwbcg.com; TPI: www.tpinet.org; WTCA: www.sbcindustry.com; ICC: www.iccsafe.org

PLT TYP. Wave

ALPINE
ITW Building Components Group Inc.
Haines City, FL 33844
FL COA #0278

TC LL	20.0 PSF	FL/-/5/-/-/R/-	Scale = .1875"/Ft.
TC DL	10.0 PSF	REF	R215-- 76709
BC DL	10.0 PSF	DATE	01/22/13
BC LL	0.0 PSF	DRW	HCU215 13022019
TOT.LD.	40.0 PSF	HC-ENG	KD/AP
DUR.FAC.	1.25	SEQN-	362751
SPACING	24.0"	FROM	CDM
		JREF-	1UT3215_Z01

Top	chord	2x4	SP_#2	N_12A
Bot	chord	2x4	SP_#2	N_12A
	Webs	2x4	SP_#2	N_12A

Lumber grades designated with "12A" use design values approved 1/5/2012 by ALSC.

Left end vertical not exposed to wind pressure.

Bottom chord checked for 10.00 psf non-concurrent live load.

The overall height of this truss excluding overhang is 7-9-7.

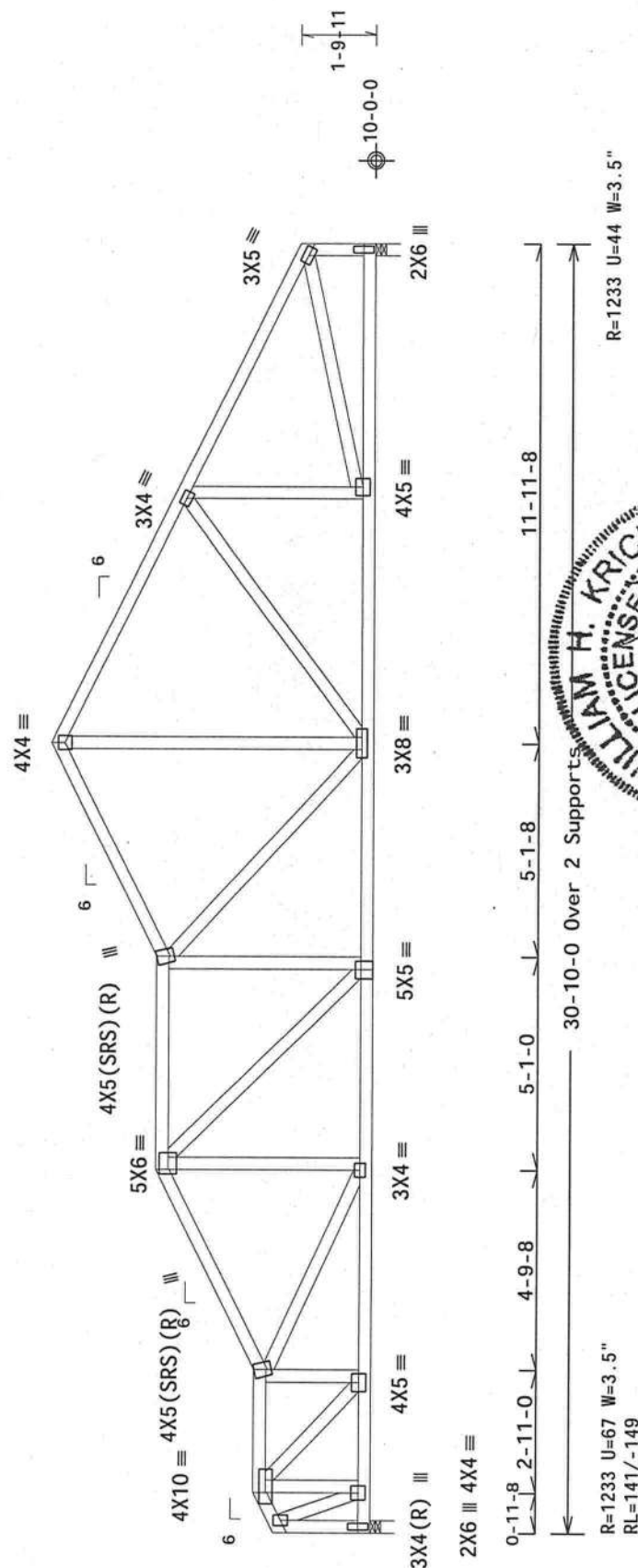
WWFRS loads based on trusses located at least 15.00 ft. from roof edge.

130 mph wind, 15.00 ft mean hgt, ASCE 7-10, CLOSED bldg, not located within 9.00 ft from roof edge, RISK CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=5.0 psf. GCpi (+/-)=0.18

Wind loads and reactions based on MWFRS with additional C&C member design.

In lieu of structural panels use purlins to brace all flat TC @ 24" OC.

Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.



PLT TYP. Wave

Design Crit: $\text{FBC2010Res/TPI-2007(ST)}_{\text{FT/RT}} = 20\%(0\%) / 10(0)$

Scale = .25"/Ft.

ALPINE

ITW Building Components Group Inc.

Haines City, FL 33844
FL COA #0278

****WARNING** READ AND FOLLOW ALL NOTES ON THIS SHEET!**

****IMPORTANT** FURNISH THIS DESIGN TO ALL CONTRACTORS INCLUDING 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 WTC) for best 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 properly attached rigid ceiling. Locations shown for permanent lateral restraint only shall have installed per BCSI sections B3, B7 or B10, as applicable.

ITW Building Components Group Inc. (ITWBGG) shall not be responsible for any deviation from this design, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation, bracing of trusses. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-2 for standard plate positions. A seal on this truss is required. Notwithstanding, indicates acceptance of professional engineering design and the responsibility of the Building Designer per ANSI/TPI 1 Sec. 2. For more information, see the general notes page: ITW-BGG: www.itwbcg.com; TPI: www.tpinet.org; WTC: www.iccsafe.org

TC LL	20.0 PSF	REF	R215--	76710
TC DL	10.0 PSF	DATE	01/22/13	
BC DL	10.0 PSF	DRW	HCUSR215	13022020
BC LL	0.0 PSF	HC-ENG	KD/AP	
TOT. LD.	40.0 PSF	SEQN-	362757	
DUR. FAC.	1.25	FROM	CDM	
SPACING	24.0"	JREF-	1UT3215	Z01

130 mph wind, 15.00 ft mean hgt, ASCE 7-10, CLOSED bldg, not located within 9.00 ft from roof edge, RISK CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=5.0 psf. GCpl(+/-)=0.18

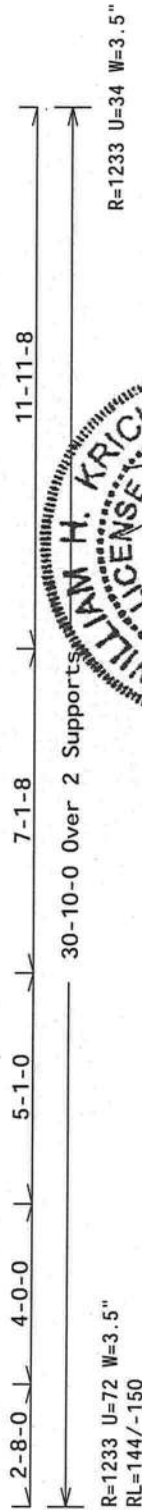
Wind loads and reactions based on MWFRS with additional C&C member design.

Max JT VERT DEFL: LL: 0.14" DL: 0.21" recommended camber 3/8"

Bottom chord checked for 10.00 psf non-concurrent live load.

Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.

Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.



Design Crit: FBC2010Res/TPI-2007(STB)

****WARNING** READ AND FOLLOW ALL NOTES ON THIS SHEET!**

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS SHEET!
FURNISH THIS DESIGN TO ALL CONTRACTORS INCLUDING INSTALLERS

...

TC	11	20	0
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Scale = 1/1000

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to the latest edition of BCSI (Building Component Safety Information, by TPI and WITCA) for detailed instructions. Installers shall provide temporary bracing for all trusses until they are permanently braced. The following conditions, top and bottom chord bracing, and lateral bracing, shall be provided:

- Trusses shall have a properly attached rigid ceiling.
- Locations shown for permanent lateral bracing of trusses shall have bracing installed per BCSI sections B3, B7 or B10, as applicable.

STATE OF
FLORIDA
ENGINEER

TC	DL	20.0
TC	DL	10.0
BC	DL	10.0

REF	RZ13--	767
DATE	01/22/13	
DRW	HCUSR215	130220

TW Building Components Group Inc. (**TWBCG**) shall not be responsible for any deviation from the design or manufacturer's instructions due to its own or anyone else's failure to build the truss in accordance with ANSI/TPI 1 or for handling, shipping, installation or packaging of trusses. Apply plates to each face of truss and position as shown above and on the Joint Details. Unless noted otherwise, Refer to drawings 160A-2 For standard plate positions. A seal on this drawing or cover page listing this designer. Insignia indicating acceptance of professional engineering is required for all drawings. The responsibility of the Building Designer pair ANSI/TPI 1 Sec 2. For more general notes refer to TW-BGC; www.twbcg.com; TPI: www.tpinet.org; WCA: www.sbcindustry.com; IBC: www.tccafpa.org

01/22/2013

BC LL	0.0
TOT.LD.	40.0
DUR.FAC.	1.25
SPACING	24.0"

HC-ENG KD/AP	
SEQN-	362724
FROM	CDM
UREF-	1UT3215 Z

Top chord 2x4 SP_#2_N_12A :T1, T2 2x4 SP_SS_12A:

Bot chord 2x4 SP_#2_N_12A
Webs 2x4 SP_#2_N_12A

Lumber grades designated with "12A" use design values approved 1/5/2012 by ALSC.

Max JT VERT DEFL: LL: 0.15" DL: 0.22" recommended camber 3/8"

In lieu of structural panels use purlins to brace all flat TC @ 24" OC.

Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.

(**) 1 plate(s) require special positioning. Refer to scaled plate plot details for special positioning requirements.

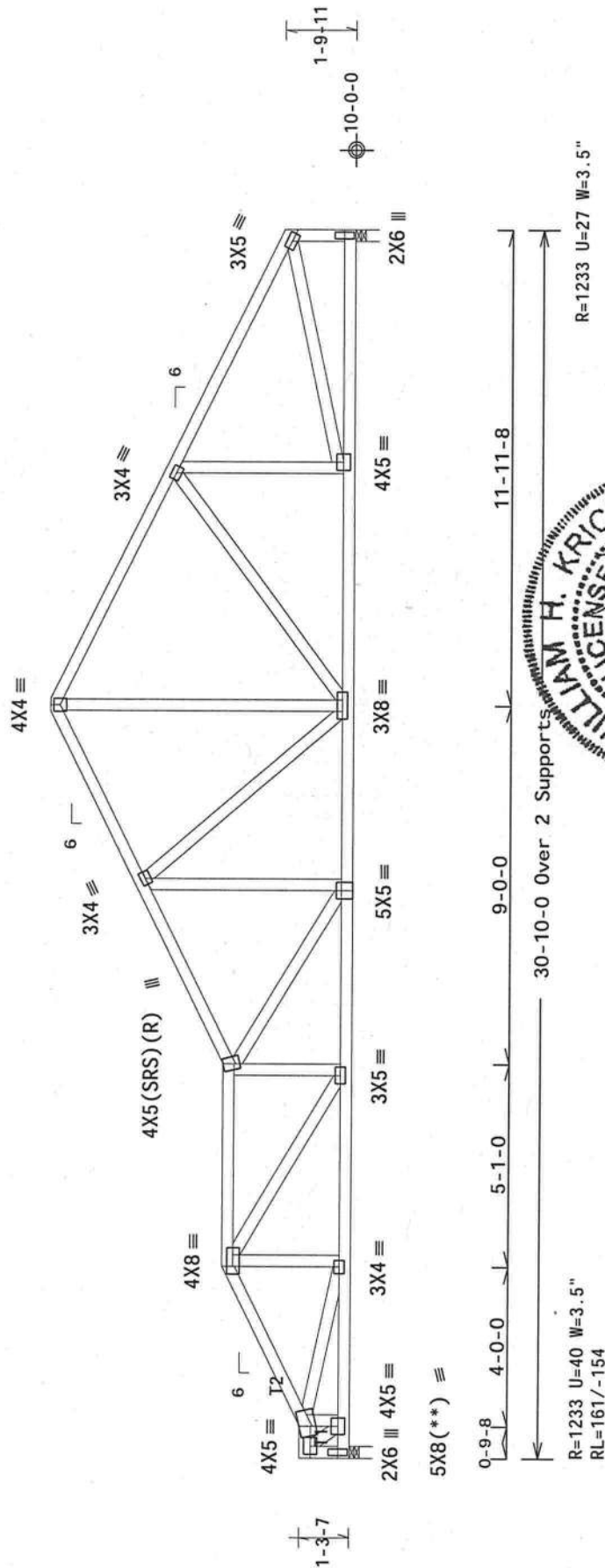
130 mph wind, 15.00 ft mean hgt, ASCE 7-10, CLOSED bldg, not located within 9.00 ft from roof edge, RISK CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=5.0 psf. GCpi(+/-)=0.18

Wind loads and reactions based on MMFRS with additional C&C member design.

Bottom chord checked for 10.00 psf non-concurrent live load.

The overall height of this truss excluding overhang is 7-8-7.

MMFRS loads based on trusses located at least 15.00 ft. from roof edge.



PLT TYP. Wave

Design Crit: FBC2010Res/TPI-2007(STB)
FT/RT=20% (0%)/10(0)

Scale = .25"/Ft.

TC LL	20.0 PSF	REF	R215--	76712
TC DL	10.0 PSF	DATE	01/22/13	
BC DL	10.0 PSF	DRW	HCSR215	13022022
BC LL	0.0 PSF	HC-ENG	KD/AP	
TOT.LD.	40.0 PSF	SEQN-	362763	
DUR.FAC.	1.25	FROM	CDM	
SPACING	24.0"	JREF-	1UT3215_Z01	

WILLIAM H. KRICK
LICENSE
No. 70861
10.03.11.09.20
STATE OF
FLORIDA
PROFESSIONAL ENGINEER
01/22/2013

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS SHEET!
FURNISH THIS DESIGN TO ALL CONTRACTORS INCLUDING INSTALLERS.
****IMPORTANT**** Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Follow the latest edition of BCSI (Building Component Safety Information, by TPI and WICA) for safety practices prior to performing these functions. Installers shall provide temporary bracing and bracing details, unless noted otherwise. Refer to drawings 100A-2 for standard plate positions. 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 design for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2. For more information see: This job's ICC-ES ESR-1186-06. ITR-BGG: www.itrinc.com; TPI: www.tpinet.org; WICA: www.abindustry.com; ICC: www.iccsafe.org

ALPINE
ITW Building Components Group Inc.
Haines City, FL 33844
FL COA #0278

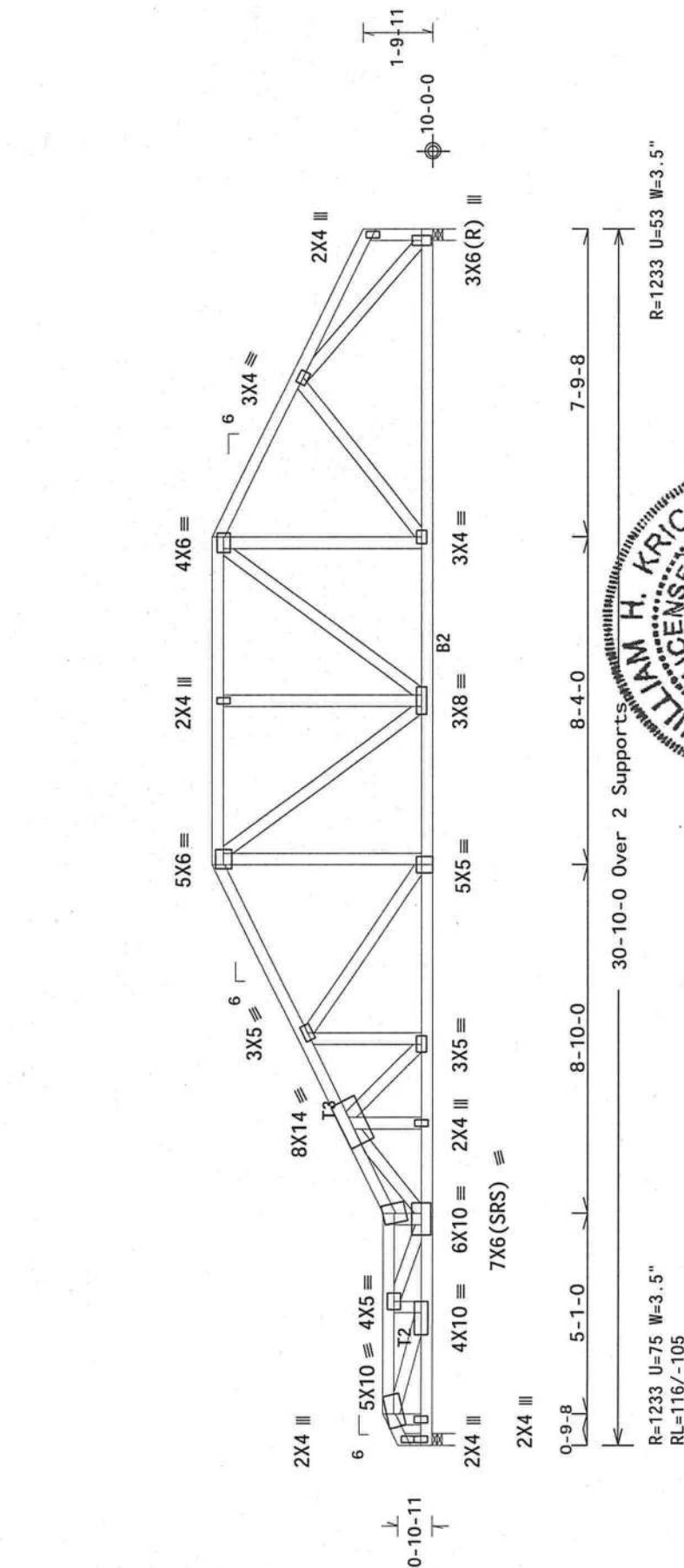
130 mph wind, 15.00 ft mean hgt, ASCE 7-10, CLOSED bldg, not located within 9.00 ft from roof edge, RISK CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=5.0 psf. GCpi (+/-)=0.18

wind BC DL=5.0 psf. GCpi (+/-)=0.18

Wind loads and reactions based on MWFRS with additional C&C member design.

Bottom chord checked for 10.00 psf non-concurrent live load.

Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.



Design Crit: FBC2010Res/TPI-2007(STD)

Scale = .25"/Ft.

ALPINE

TTW Building Components Group Inc.
Haines City, FL 33844
P.O. Box 40 278

01/22/2013

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****IMPORTANT** FURNISH THIS DESIGN TO ALL CONTRACTORS INCLUDING INSTALLERS.**

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BC51 (Building Component Safety Information, by TPI and WIGA) and the manufacturer's instructions for proper installation and bracing. The manufacturer's instructions shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint shall have installed per BC51 sections B3, B7 or B10, as applicable.

TTW Building Components Group Inc. (TTWBCG) shall not be responsible for any deviation from this design or any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installing or bracing of trusses. 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. 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 design for any structure is the responsibility of the design engineer. For more information see: This job's responsibility of the design engineer. For more information see: This job's responsibility of the design engineer. For more information see: This job's responsibility of the design engineer.

TTW-BEG: www.ttwbuilding.com; TPI: www.tpiinc.org; WIGA: www.sabinindustry.com; ICC: www.iccsafe.org

TC LL	20.0 PSF	REF	R215--	76714
TC DL	10.0 PSF	DATE	01/22/13	
BC DL	10.0 PSF	DRW	HCUSR215	13022024
BC LL	0.0 PSF	HC-ENG	KD/AP	
TOT. LD.	40.0 PSF	SEQN-	362799	
DUR. FAC.	1.25	FROM	CDM	
SPACING	24.0"	JREF-	1UT3215	Z01

(8025--/DERRINGTON PROPERTIES /Plumb Level Construction -- LAKE CITY, FL - H)

Top chord 2x4 SP #2 N 12A :T2 2x6 SP #2 N 12A:

Bot chord 2x6 SP #2 N 12A

Webs 2x4 SP #2 N 12A

Lumber grades designated with "12A" use design values approved 1/5/2012 by ALSC.

Special loads

-----Lumber Dur.Fac.=1.25 / Plate Dur.Fac.=1.25)
TC- From 60 plf at 0.00 to 60 plf at 1.87
TC- From 30 plf at 1.87 to 30 plf at 16.71
TC- From 60 plf at 16.71 to 60 plf at 18.58
BC- From 10 plf at 0.00 to 10 plf at 18.58

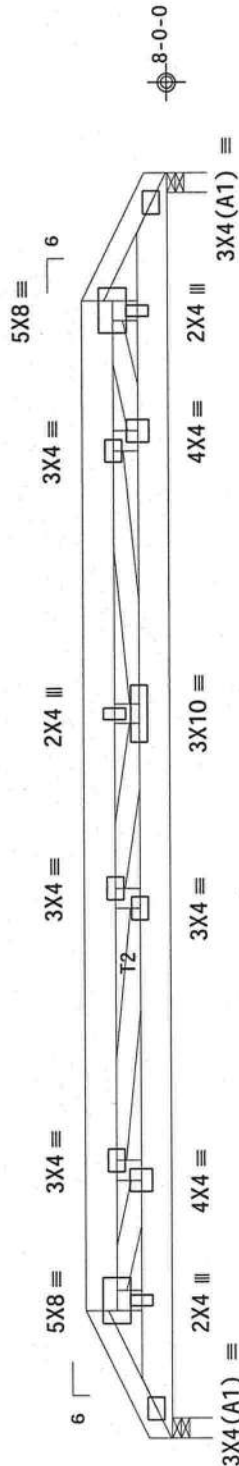
130 mph wind, 15.00 ft mean hgt, ASCE 7-10, CLOSED bldg, Located anywhere in roof, RISK CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=5.0 psf. GCpi(+/-)=0.18

Wind loads and reactions based on MWFRS.

In lieu of structural panels use purlins to brace all flat TC @ 24" OC.

Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.

The overall height of this truss excluding overhang is 1-3-7.



1-10-8
14-10-0
18-7-0 Over 2 Supports
R=751 U=328 W=3.5"

PLT TYP. Wave

Design Crit: FBC2010Res/TPI-2007(STB)
FT/RT=20%(0%)/T0(O)

Scale = .375"/Ft.

 ALPINE ITW Building Components Group Inc. Haines City, FL 33844 FL COA #0 278	**WARNING** READ AND FOLLOW ALL NOTES ON THIS SHEET!			TC LL	20.0 PSF	REF	R215-- 76715
	IMPORTANT FURNISH THIS DESIGN TO ALL CONTRACTORS INCLUDING INSTALLERS.			TC DL	10.0 PSF	DATE	01/22/13
	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 WTCA) recommended 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 shall have bracing installed per BCSI sections B3, B7 or B10, as applicable.			BC DL	10.0 PSF	DRW	HCUSR215 13022041
	ITW Building Components Group Inc. (ITWBGC) shall not be responsible for any deviation from this design for any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation, or for any other reason, the truss manufacturer shall be responsible for any deviation from this design. This job's responsibility is solely for the Building Designer per ANSI/TPI 1 Sec.2. For more information see: www.alpineindustry.com; TPI: www.tpiinc.com; ITW-BGC: www.itwbgc.org; WTCA: www.wtca.org			BC LL	0.0 PSF	HC-ENG	KD/AP
	drawing or cover plate listing this drawing, indicates acceptance of professional engineering responsibility by the Building Designer per ANSI/TPI 1 Sec. 2. For more information see: This job's general notes page: ITW-BCSI: www.itwbgc.com; TPI: www.tpiinc.org; WTCA: www.sbcindustry.com; ICC: www.iccsafe.org			TOT.LD.	40.0 PSF	SEQN-	362839
				DUR.FAC.	1.25	FROM	CDM
		SPACING	24.0"	JREF-	1UT3215_Z01		

Top	chord	2x4	SP_#2_N_12A
Bot	chord	2x4	SP_SS_12A
	webs	2x4	SP_#2_N_12A

Lumber grades designated with "12A" use design values approved 1/5/2012 by ALSC.

Max JT VERT DEFL: LL: 0.23" DL: 0.34" recommended camber 5/8"

In lieu of structural panels use purlins to brace all flat TC @ 24" OC.

Bottom chord checked for 10.00 psf non-concurrent live load.

Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.

130 mph wind, 15.00 ft mean hgt, ASCE 7-10, CLOSED bldg, not located within 4.50 ft from roof edge, RISK CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=5.0 psf. GCpi (+/-)=0.18

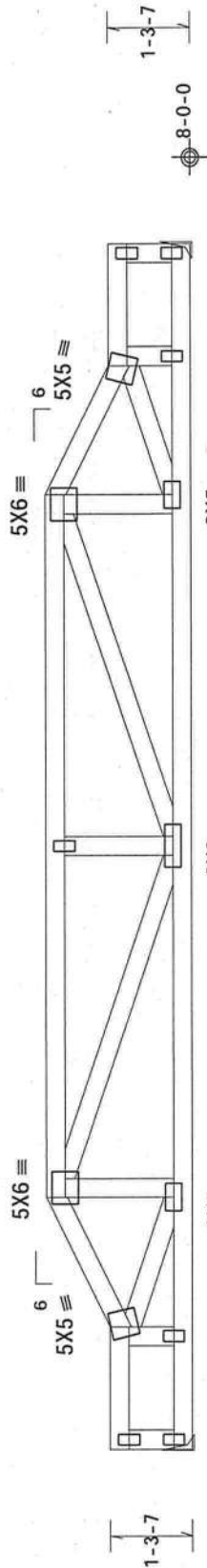
Wind loads and reactions based on MWFRS with additional C&C member design.

These support conditions used at bearings indicated (H1) = 1TW (KC) ATH29 w/ (2)2x8 SP_SS 12A supporting member.

Supported Member Face: (4) 0.131"x1.5" nails
Supporting Member Face: (8) 0.128"x3" nails

Supporting Member Top: (4) 0.128"x3" nails
(H2) = (J) Hanger not calculated (2)2x4 SP_#2_N_12A
supporting member.

The overall height of this truss excluding overhang is 2-3-7.



1-10-8 | 2-0-0 | 10-10-0 | 2-0-0 | 1-10-8

18-7-0 Over 2 Supports

R=743 U=139
RI=25/-25

R=743 U=139
H=H2

WILLIAM H. KRICK
POLICE OFFICER

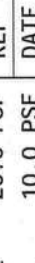
R=743 U=139
RI=25/-25

Note: All Plates Are 2X4 Except As Shown.

Design Crit: FBC2010Res/TPI-2007(ST)
FT/RT=20%(0%)/10(0)

PLT TYP. Wave

Scale = .375"/Ft.



ALPINE

ITW Building Components Group Inc.

Haines City, FL 33844
Tel. 888.400.2728

****WARNING** READ AND FOLLOW ALL NOTES ON THIS SHEET!**

****IMPORTANT** FURNISH THIS DESIGN TO ALL CONTRACTORS INCLUDING INSTALLERS.**

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Follow the latest edition of BCSI (Building Component Safety Institute) information. For more information, visit www.bcsinstitute.org.
 Unless noted otherwise, top chord shall have properly attached structural shoring and bottom chord shall have properly attached rigid ceiling. Locations shown for permanent lateral restraint only shall have bracing installed per BCSI sections B3, B7 or B10, as applicable.

ITW Building Components Group Inc. (ITWBGCI) shall not be responsible for any deviation from this design or any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation or bracing of trusses. 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. 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 design for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2. For more information see: This job's drawings and specifications. ITW-BGCI: www.itwbgci.com; TPI: www.tpinet.org; WTCA: www.wtcainformation.com; ICC: www.iccsafe.org



TC LL	20.0	PSF	REF	R215--	76716
TC DL	10.0	PSF	DATE	01/22/13	
BC DL	10.0	PSF	DRW	HCUSR215	13022035
BC LL	0.0	PSF	HC-ENG	KD/AP	
TOT.LD.	40.0	PSF	SEQN-	362605	
DUR.FAC.	1.25		FROM	CDM	
SPACING	24.0"		JREF-	1UT3215_Z01	

Top chord 2x4 SP_#2_N_12A
Bot chord 2x4 SP_#2_N_12A
Webs 2x4 SP_#2_N_12A

Lumber grades designated with "12A" use design values approved 1/5/2012 by ALSC.

End verticals not exposed to wind pressure.

In lieu of structural panels use purlins to brace all flat TC @ 24" OC.

Bottom chord checked for 10.00 psf non-concurrent live load.

Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.

MWFRS loads based on trusses located at least 7.50 ft. from roof edge.

130 mph wind, 15.00 ft mean hgt, ASCE 7-10, CLOSED bldg, not located within 9.00 ft from roof edge. RISK CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=5.0 psf. GCpi (+/-)=0.18

Wind loads and reactions based on MWFRS with additional C&C member design.

These support conditions used at bearings indicated (H1) = ITW (KC) ATH29 w/ (2)2x8 SP_SS_12A supporting member.

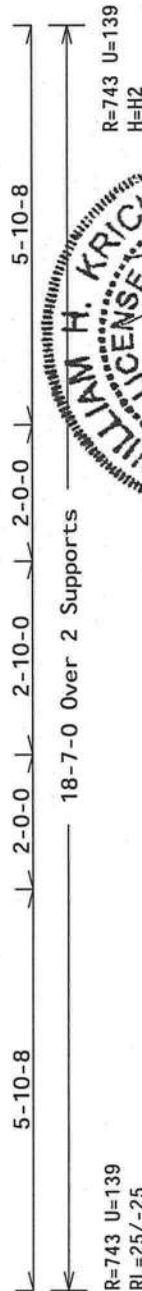
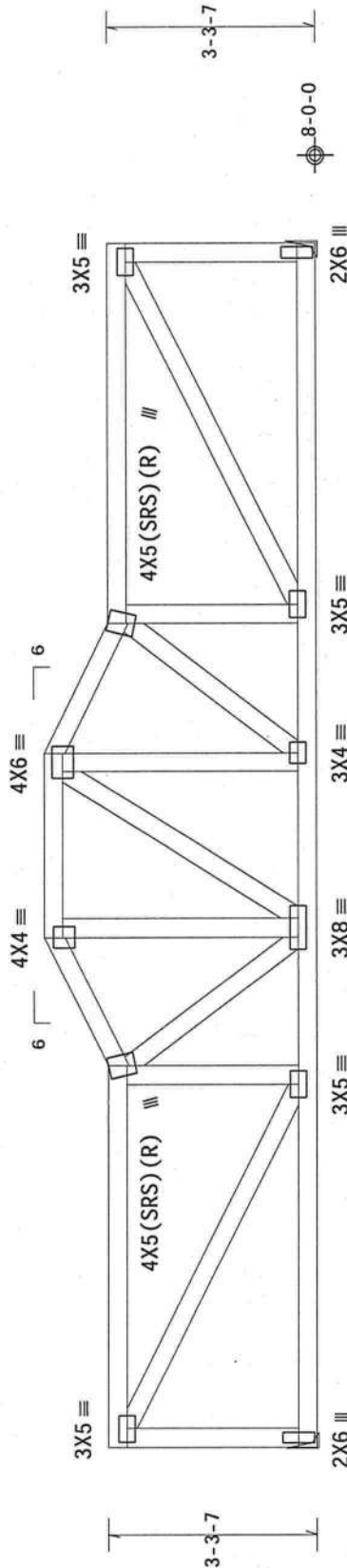
Supported Member Face: (4) 0.131"x1.5" nails

Supporting Member Face: (8) 0.128"x3" nails

Supporting Member Top: (4) 0.128"x3" nails

(H2) = (J) Hanger not calculated (2)2x4 SP_#2_N_12A supporting member.

The overall height of this truss excluding overhang is 4-3-7.



R=743 U=139
RL=25/-25
H=H1

R=743 U=139
H=H2

PLT TYP. Wave

Design Crit: FBC2010Res/TPI-2007(STB)
FT/RT=20%(0%)/10(O)

Scale = .375"/Ft.

 ITW Building Components Group Inc. Haines City, FL 33844 FL COA #0 278	**WARNING** READ AND FOLLOW ALL NOTES ON THIS SHEET. **IMPORTANT** FURNISH THIS DESIGN TO ALL CONTRACTORS INCLUDING 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 BTCA) 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 trusses shall have bracing installed per BCSI sections B3, B7 or B10, as applicable. ITW Building Components Group Inc. (ITWBCG) shall not be responsible for any deviation from this design or any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation, or bracing of trusses. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-2 for standard plate positions. 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 design 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: ITW-BG0; www.itwbcg.com; TPI: www.tpiinc.org; BTCA: www.btcaindustry.com; ICC: www.icccsa.org			
	REF	R215--	76718	
	DATE	01/22/13		
	DRW	HCSR215	13022037	
	HC-ENG	KD/AP		
	SEQN-	362607		
				
TC LL	20.0 PSF			
TC DL	10.0 PSF			
BC DL	10.0 PSF			
BC LL	0.0 PSF			
TOT.LD.	40.0 PSF			
DUR.FAC.	1.25			
SPACING	24.0"			
JREF-	1UT3215_Z01			

Top chord	2x4	SP_#2	N_12A
Bot chord	2x4	SP_#2	N_12A
Webbs	2x4	SP_#2	N_12A

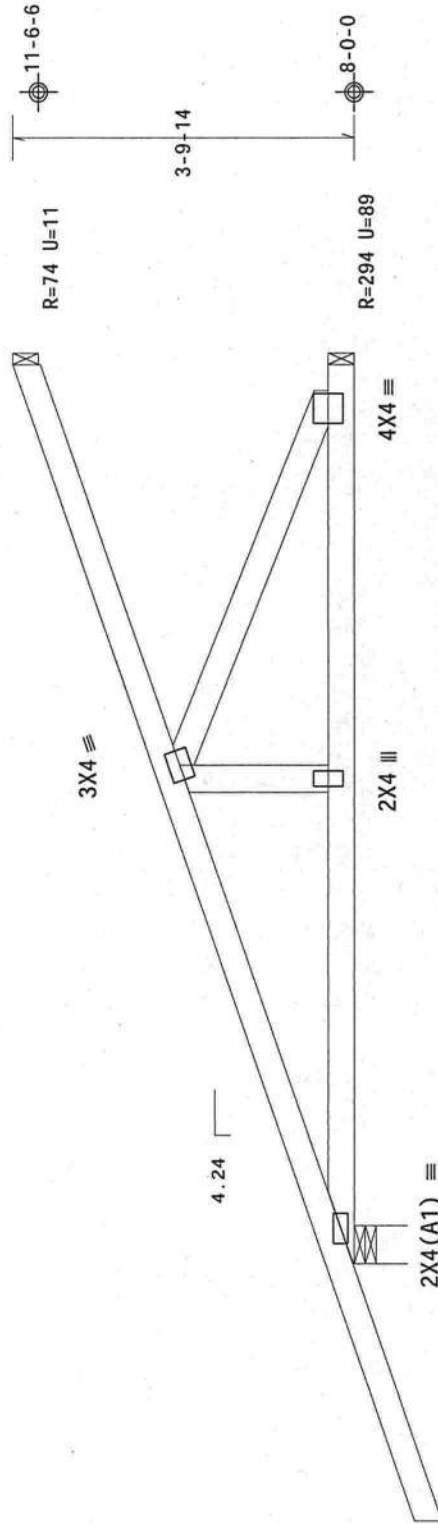
Lumber grades designated with "12A" use design values approved 1/5/2012 by ALSC.

130 mph wind, 15.00 ft mean hgt, ASCE 7-10, CLOSED bldg, not located within 9.00 ft from roof edge, RISK CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=5.0 psf. GCpl(+/-)=0.18

Wind loads and reactions based on MWFRS.

Bottom chord checked for 10.00 psf non-concurrent live load.

The overall height of this truss excluding overhang is 3-9-14.



2-9-15
9-10-13 Over 3 Supports
R=381 I=312 W=4 95"

R=381 U=312 W=4 95"

PLT TYP. Wave

Design Crit: FBC2010Res/TPI -2007(ST)

 $FT/RT=20\%(0\%)/10(0)$

*****WARNING** READ AND FOLLOW ALL NOTES ON THIS SHEET!
FURNISH THIS DESIGN TO ALL CONTRACTORS INCLUDING INSTALLERS.**

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TC LL	20.0 F
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REF R215-- 767

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of AISC's Building Component Safety Information, by TPI and WCA for more information on proper handling and bracing of trusses. Trusses are not to be used in any business noted otherwise. Top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid soiling. Locations shown for permanent lateral restraint of the truss shall have bracing installed per AISC sections B3, B7 or B10, as applicable.

ITW Building Components Group Inc. (TBCOG) shall not be responsible for any deviation from this drawing or specification. The user assumes full responsibility for the design and construction of the building. The user's failure to build in accordance with ASHRAE 90.1-2001, including energy conservation, shipping, installation, operation, maintenance, and repair instructions, shall constitute acceptance of the drawings and specifications. Details, unless noted otherwise. Refer to drawings 160A-7 for standard plate positions. 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 design for any structure is the responsibility of the building designer per ASHRAE 90.1 Sec. 2. For more information see: This Job's Specification Section 05100-Part 1. Manufacturer: TBCOG. For more information see: www.itw.com; www.tbcog.com; info@tbcog.com.

ALPINE
ITW Building Components Group Inc.
Haines City, FL 33844
FL COA #0278

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Professional
ENGINEERING

BC LL	0.0 PSF	HC-ENG KD/AP
TOT.LD.	40.0 PSF	SEQN- 362590

DUR.FAC.	1.25	FROM	CDM
SPACING	24.0"	JREF-	1UT3215.2

(8025--/DERRINGTON PROPERTIES /Plumb Level Construction -- LAKE CITY, FL - J1)

Top chord 2x4 SP #2 N 12A
Bot chord 2x4 SP #2 N 12A

Lumber grades designated with "12A" use design values approved 1/5/2012 by ALSC.

Bottom chord checked for 10.00 psf non-concurrent live load.

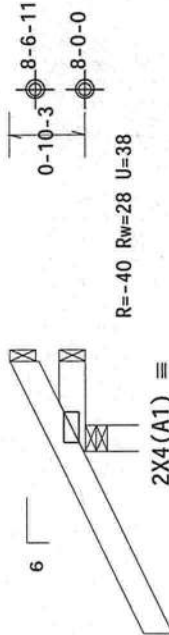
The overall height of this truss excluding overhang is 0-10-3.

130 mph wind, 15.00 ft mean hgt, ASCE 7-10, CLOSED bldg, Located anywhere in roof, RISK CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=5.0 psf, GCpl(+/-)=0.18

Wind loads and reactions based on MWFRS with additional C&C member design.

Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.

R=-100 Rw=55 U=97



R=-40 Rw=28 U=38

2X4 (A1) ≡

2-0-0
1-0-0 Over 3 Supports

R=349 U=116 W=3.5"
RL=42/-35

PLT TYP. Wave

Design Crit: FBC2010Res/TPI-2007(STB)
FT/RT=20%(0%)/10(0)

Scale =.5"/Ft.

TC LL	20.0 PSF	REF	R215--	76720
TC DL	10.0 PSF	DATE	01/22/13	
BC DL	10.0 PSF	DRW	HCUSR215	13022039
BC LL	0.0 PSF	HC-ENG	KD/AP	
TOT.LD.	40.0 PSF	SEQN-	362569	
DUR.FAC.	1.25	FROM	CDM	
SPACING	24.0"	JREF-	1UT3215_Z01	

IMPORTANT READ AND FOLLOW ALL NOTES ON THIS SHEET.

FURNISH THIS DESIGN TO ALL CONTRACTORS INCLUDING INSTALLERS.
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Read and follow all notes on this sheet. Trusses shall be installed in accordance with the manufacturer's instructions. Trusses shall be installed in accordance with the manufacturer's instructions. Trusses shall be installed in accordance with the manufacturer's instructions.

ITW Building Components Group Inc. (ITWBCG) shall not be responsible for any deviation from this design for any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation & bracing of trusses. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-2 for standard plate positions. A seal on this truss shall have a properly attached rigid coiling. Locations shown for permanent lateral restraint of trusses shall have bracing installed per BCGI sections B3, B7 or B10, as applicable.
The suitability and use of this design 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: ITW-BCG: www.itwbcg.com; TPI: www.tpinet.org; WTCA: www.sbcindustry.com; ICC: www.iccsafe.org



ALPINE

ITW Building Components Group Inc.
Haines City, FL 33844
FL COA #0 278

Top chord 2x4 SP #2 N_12A
Bot chord 2x4 SP #2 N_12A

Lumber grades designated with "12A" use design values approved 1/5/2012 by ALSC.

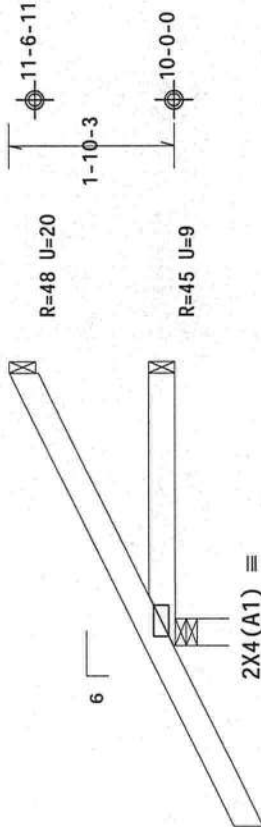
Bottom chord checked for 10.00 psf non-concurrent live load.

The overall height of this truss excluding overhang is 1-10-3.

130 mph wind, 15.00 ft mean hgt, ASCE 7-10, CLOSED bldg, Located anywhere in roof. RISK CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=5.0 psf. GCPI(+/-)=0.18

Wind loads and reactions based on MWFRS with additional C&C member design.

Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.



2-0-0
3-0-0 Over 3 Supports

R=307 U=61 W=3.5"
RL=71/-41

PLT TYP. Wave

Design Crit: FBC2010Res/TPI-2007(ST)
FT/RT=20%(0%)/10(0)

Scale = .5"/Ft.

ALPINE ITW Building Components Group Inc. Haines City, FL 33844 FL COA #0 278	**WARNING** READ AND FOLLOW ALL NOTES ON THIS SHEET! FURNISH THIS DESIGN TO ALL CONTRACTORS INCLUDING INSTALLERS.			★ STATE OF FLORIDA PROFESSIONAL ENGINEER 01/22/2013			TC LL	20.0 PSF	REF	R215--	76721
	Trussers require extreme care in fabricating, handling, shipping, installing and bracing. Follow the latest edition of BC31 (Building Components Safety Information) by ITW Building Components Group Inc. for details. Trussers shall be installed in accordance with the manufacturer's instructions. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have properly attached rigid ceiling. Locations shown for permanent lateral restraint shall have installed per BC31 sections B3, B7 or B10, as applicable.			TC DL	10.0 PSF	DATE	01/22/13				
	ITW Building Components Group Inc. (ITWBCG) shall not be responsible for any deviation from this design. Any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation or bracing of trusses. 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. 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 design for any structure is the responsibility of the user. ITWBCG does not warrant the design shown. This job's responsibility rests with the user. For more information, visit www.tpi.net . This job's responsibility rests with the user. For more information, visit www.tpi.net . This job's responsibility rests with the user. For more information, visit www.tpi.net . This job's responsibility rests with the user. 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For more information, visit										



****WARNING**** READ AND FOLLOW ALL NOTES ON THIS SHEET.
FURNISH THIS DESIGN TO ALL CONTRACTORS INCLUDING INSTALLERS.

****IMPORTANT**** Trusses require extreme care in fabricating, handling, shipping, installing and bracing. For top and bottom chord connections, refer to drawings for details. Trusses are designed and manufactured in accordance with the latest edition of BCS (Building Component Safety Information, by TPI and WCA) for use in the field. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid coiling. Locations shown for permanent lateral restraint of trusses shall have bracing installed per BCS sections B3, B7 or B10, as applicable.

ITW Building Components Group Inc. (ITWBCG) shall not be responsible for any deviation from this design or any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation, bracing of trusses. Apply plates to each face of truss and position as shown above and on the Joint details, unless noted otherwise. It is the responsibility of the contractor to ensure proper installation and the responsibility of the Building Designer for the design shown. The suitability and use of this design 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; ITW-BCG: www.itwbcg.com; TPI: www.tpi.net.org; WCA: www.alcindustry.com; ICC: www.iccsafe.org

Top chord 2x4 SP #2_N_12A
Bot chord 2x4 SP #2_N_12A

Lumber grades designated with "12A" use design values approved 1/5/2012 by ALSC.

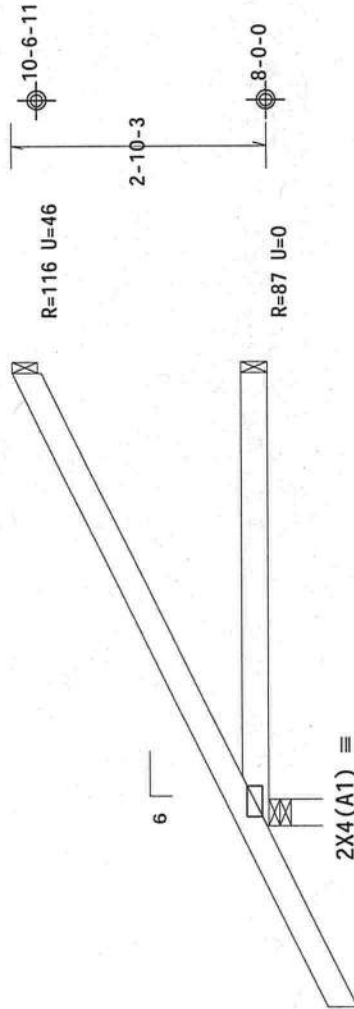
Bottom chord checked for 10.00 psf non-concurrent live load.

The overall height of this truss excluding overhang is 2-10-3.

130 mph wind, 15.00 ft mean hgt, ASCE 7-10, CLOSED bldg, not located within 4.50 ft from roof edge. RISK CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=5.0 psf. GCpi(+/-)=0.18

Wind loads and reactions based on MWFRS with additional C&C member design.

Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.



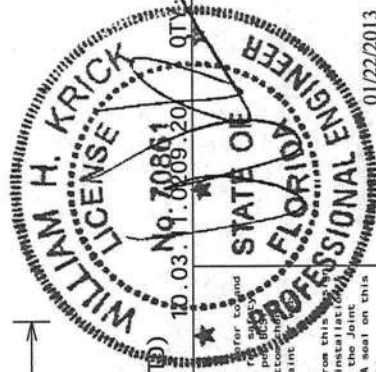
2-0-0
5-0-0 Over 3 Supports
R=365 U=61 W=3.5"
RL=100/-48

Design Crit: FBC2010Res/TPI-2007(STB)
FT/RT=20%(0%)/10(0)

PLT TYP. Wave

Scale = .5"/Ft.

ALPINE
ITW Building Components Group Inc.
Haines City, FL 33844
FL COA #0 278



****WARNING**** READ AND FOLLOW ALL NOTES ON THIS SHEET
FURNISH THIS DESIGN TO ALL CONTRACTORS INCLUDING 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 WCA) practices prior to performing these functions.
Installers shall be responsible for proper installation of the truss system. The truss system shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint shall have bracing installed per BCSI sections B3, B7 or B10, as applicable.
ITW Building Components Group Inc. (ITWBCG) shall not be responsible for any deviation from this design or any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation, bracing of trusses. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-2 for standard plate positions. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The user of this design assumes full responsibility for the general notes page: ITW-BCG: www.itwbcg.com, TPI: www.tpiinc.org, WCA: www.wcaindustry.com; ICC: www.iccsafe.org

TC LL	20.0 PSF	REF	R215--	76722
TC DL	10.0 PSF	DATE	01/22/13	
BC DL	10.0 PSF	DRW	HCUSR215	13022029
BC LL	0.0 PSF	HC-ENG	KD/AP	
TOT.LD.	40.0 PSF	SEQN-	362587	
DUR.FAC.	1.25	FROM	CDM	
SPACING	24.0"	JREF-	1UT3215_Z01	

Top chord 2x4 SP_#2_N_12A
Bot chord 2x4 SP_#2_N_12A

Lumber grades designated with "12A" use design values approved 1/5/2012 by ALSC.

Bottom chord checked for 10.00 psf non-concurrent live load.

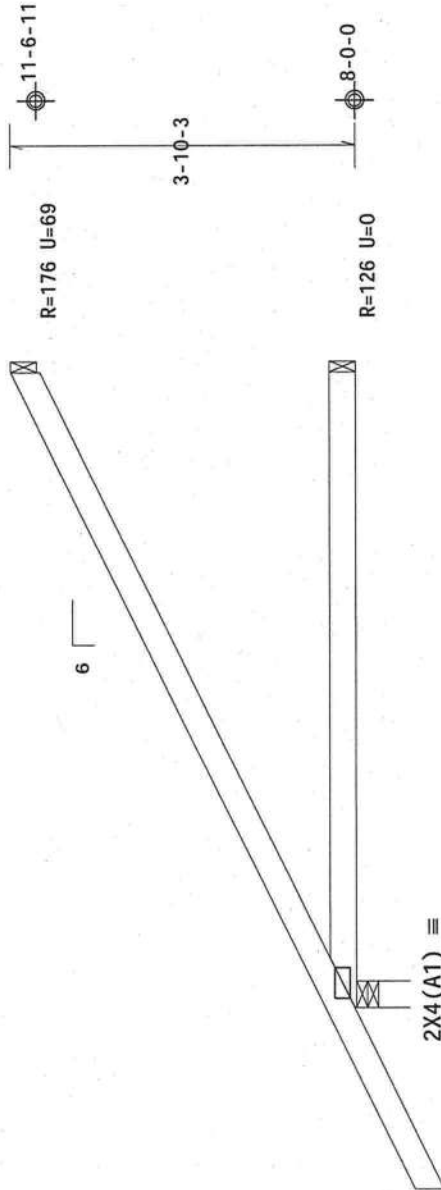
The overall height of this truss excluding overhang is 3-10-3.

MFERS loads based on trusses located at least 7.50 ft. from roof edge.

130 mph wind, 15.00 ft mean hgt, ASCE 7-10, CLOSED bldg, Located anywhere in roof. RISK CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=5.0 psf. GCpi(+/-)=0.18

Wind loads and reactions based on MFERS with additional C&C member design.

Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.



2-0-0
7-0-0 Over 3 Supports
R=436 U=65 W=3.5"
RL=128/-54

Design Crit: FBC2010Res/TPI-2007(SD)
FT/RT=20%(0%)/10(0)

PLT TYP. Wave

Scale = .5"/Ft.

REF R215-- 76723

DATE 01/22/13

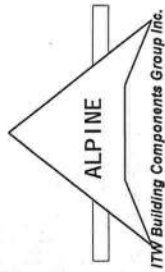
DRW HCUSR215 13022030

HC-ENG KD/AP

SEQN- 362585

FROM CDM

JREF- 1UT3215_Z01



IMPORTANT: READ AND FOLLOW ALL NOTES ON THIS SHEET. FURNISH THIS DESIGN TO ALL CONTRACTORS INCLUDING INSTALLERS. Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to drawings for details. Trusses shall be installed in accordance with the manufacturer's instructions. 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 shall have bracing installed per BCSI sections B3, B7 or B10, as applicable. ITW Building Components Group Inc. (ITWBCG) shall not be responsible for any deviation from this design for any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installing, bracing or bracing of trusses. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 1600-2 for standard plate positions. A seal on this drawing is required for the Building Designer to sign and use of this design 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: ITW-BCG: www.itwbcg.com; TPI: www.tpinet.org; WTCA: www.sbcindustry.com; ICC: www.iccsafe.org

Top chord 2x4 SP_#2 N_12A
Bot chord 2x4 SP_#2 N_12A

Lumber grades designated with "12A" use design values approved 1/5/2012 by ALSC.

130 mph wind, 15.00 ft mean hgt, ASCE 7-10, CLOSED bldg, Located anywhere in roof, RISK CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=5.0 psf. GCpi(+/-)=0.18

Bottom chord checked for 10.00 psf non-concurrent live load.

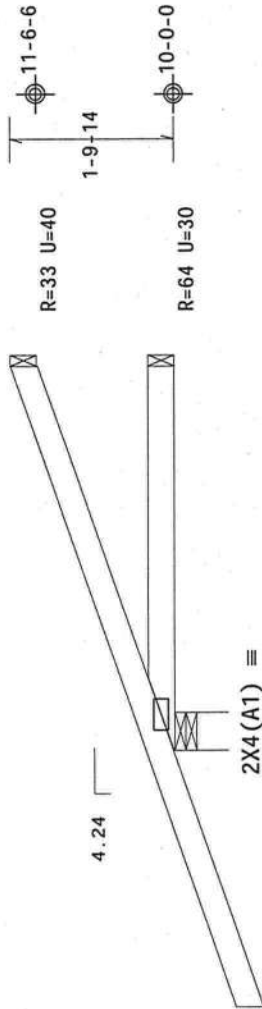
The overall height of this truss excluding overhang is 1-9-14.

Special loads

-----Lumber Dur.Fac=1.25 / Plate Dur.Fac=1.25)
TC- From 0 pif at -2.83 to 60 pif at 0.00
TC- From 2 pif at 0.00 to 2 pif at 4.24
BC- From 0 pif at -2.83 to 4 pif at 0.00
BC- From 2 pif at 0.00 to 2 pif at 4.24
TC- -73.40 lb Conc. Load at 1.48
BC- -8.12 lb Conc. Load at 1.48

Wind loads and reactions based on MWFRS.

Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.



2-9-15
4-2-15 Over 3 Supports
R=226 U=220 W=4.95"

PLT TYP. Wave

Design Crit: FBC2010Res/TPI-2007(STB)
FT/RT=20%(0%)/10(0)

Scale =.5"/Ft.

	IMPORTANT Trusses require extreme care in fabricating, handling, shipping, installing and bracing. (See details for bracing and installation instructions.) TPI (www.tpiinc.com) has been selected as the manufacturer of the trusses. The manufacturer's instructions shall be followed for all details. 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 the truss shall have bracing installed per BCSI sections B3, B7 or B10, as applicable. ITW Building Components Group Inc. (ITWBCG) shall not be responsible for any deviation from this design for any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation or bracing of trusses. 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. A seal on this drawing or cover page indicating this drawing, indicates acceptance of professional engineering responsibility for the design shown. The suitability and use of this design 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: ITW-BCG: www.itwbcg.com; TPI: www.tpinet.org; WCA: www.alcindustry.com; ICC: www.iccsafe.org		TC LL	20.0 PSF	REF	R215--	76724
			TC DL	10.0 PSF	DATE	01/22/13	
			BC DL	10.0 PSF	DRW	HCU215	13022031
			BC LL	0.0 PSF	HC-ENG	KD/AP	
			TOT.LD.	40.0 PSF	SEQN-	362652	
			DUR.FAC.	1.25	FROM	CDM	
			SPACING	24.0"	JREF-	1UT3215_Z01	

ALPINE
ITW Building Components Group Inc.
Haines City, FL 33844
FL COA #0 278

Top chord 2x4 SP_#2_N_12A
Bot chord 2x4 SP_#2_N_12A

Lumber grades designated with "12A" use design values approved
1/5/2012 by ALSC.

130 mph wind, 15.00 ft mean hgt, ASCE 7-10, CLOSED bldg, Located
anywhere in roof, RISK CAT II, EXP C, wind TC DL=5.0 psf, wind BC
DL=5.0 psf. GCpi(+/-)=0.18

Bottom chord checked for 10.00 psf non-concurrent live load.

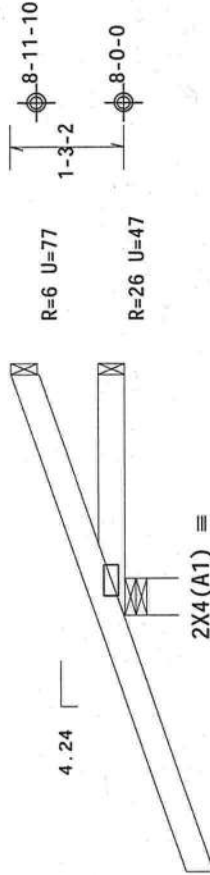
The overall height of this truss excluding overhang is 1-3-2.

Special loads

-----Lumber Dur.Fac.=1.25 / Plate Dur.Fac.=1.25)
TC- From 0 pif at -2.83 to 60 pif at 0.00
TC- From 2 pif at 0.00 to 2 pif at 2.65
BC- From 0 pif at -2.83 to 4 pif at 0.00
BC- From 2 pif at 0.00 to 2 pif at 2.65
TC- -73.40 lb Conc. Load at 1.48
BC- -8.12 lb Conc. Load at 1.48

Wind loads and reactions based on MWFRS.

Deflection meets L/240 live and L/180 total load. Creep increase
factor for dead load is 1.50.



PLT TYP. Wave

Design Crit: FBC2010Res/TPI-2007(STB)
FT/RT=20%(0%)/10(O)

Scale =.5"/Ft.

ALPINE ITW Building Components Group Inc. Haines City, FL 33844 FL COA #0278	**IMPORTANT** Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to the manufacturer's instructions for details. The truss manufacturer is responsible for the design and construction of the truss. The installer is responsible for the installation of the truss. The building designer is responsible for the design of the building. The building owner is responsible for the construction of the building.	**WARNING** READ AND FOLLOW ALL NOTES ON THIS SHEET. FURNISH THIS DESIGN TO ALL CONTRACTORS INCLUDING INSTALLERS.	 01/22/2013	TC LL	20.0 PSF	REF	R215--	76725
	IMPORTANT Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to the manufacturer's instructions for details. The truss manufacturer is responsible for the design and construction of the truss. The installer is responsible for the installation of the truss. The building designer is responsible for the design of the building. The building owner is responsible for the construction of the building.	TC DL		10.0 PSF	DATE	01/22/13		
	Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have properly attached rigid ceiling. Locations shown for permanent lateral restraint of truss shall have bracing installed per BCS1 sections B3, B7 or B10, as applicable.	BC DL		10.0 PSF	DRW	HCSR215	13022032	
	ITW Building Components Group Inc. (ITWBCG) shall not be responsible for any deviation from this design or any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation, or use of the truss in conformance with ANSI/TPI 1. ITWBCG shall not be responsible for the design, fabrication, or use of the truss in conformance with ANSI/TPI 1. ITWBCG shall not be responsible for the design, fabrication, or use of the truss in conformance with ANSI/TPI 1. ITWBCG shall not be responsible for the design, fabrication, or use of the truss in conformance with ANSI/TPI 1. ITWBCG shall not be responsible for the design, fabrication, or use of the truss in conformance with ANSI/TPI 1. ITWBCG shall not be responsible for the design, fabrication, or use of the truss in conformance with ANSI/TPI 1. ITWBCG shall not be responsible for the design, fabrication, or use of the truss in conformance with ANSI/TPI 1. 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ALPINE
ITW Building Components Group Inc.
Haines City, FL 33844
FL COA #0 278

Top chord 2x4 SP #2 N 12A
Bot chord 2x4 SP #2 N 12A

Lumber grades designated with "12A" use design values approved 1/5/2012 by ALSC.

Bottom chord checked for 10.00 psf non-concurrent live load.

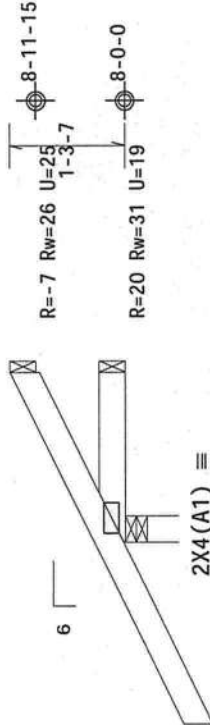
The overall height of this truss excluding overhang is 1-3-7.

MWFRS loads based on trusses located at least 15.00 ft. from roof edge.

130 mph wind, 15.00 ft mean hgt, ASCE 7-10, CLOSED bldg, Located anywhere in roof. RISK CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=5.0 psf. GCPI(+/-)=0.18

Wind loads and reactions based on MWFRS with additional C&C member design.

Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.



← 2-0-0 →
1-10-8 Over 3 Supports
R=296 U=74 W=3.5"
RL=42/-38

Design Crit: FBC2010Res/TPI-2007(STP)
FT/RT=20%(0%)/10(0)

PLT TYP. Wave

ALPINE

ITW Building Components Group Inc.
Haines City, FL 33844
FL COA #0 278

****IMPORTANT**** READ AND FOLLOW ALL NOTES ON THIS SHEET.
FURNISH THIS DESIGN TO ALL CONTRACTORS INCLUDING INSTALLERS.

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Major loads are applied to the truss during these functions. Truss members shall be installed in accordance with the manufacturer's instructions. 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 trusses shall have bracing installed per BCS1 sections B3, B7 or B10, as applicable.

ITW Building Components Group Inc. (ITWBCG) shall not be responsible for any deviation from this design for any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation or bracing of trusses. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-2 for standard plate positions. A seal on this drawing is required for the truss to be used. The suitability and use of this design 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: ITW-BCG: www.itwbcg.com; TPI: www.tpinet.org; WTCA: www.wtcaindustry.com; ICC: www.iccsafe.org



Scale = .5" / Ft.

TC LL	20.0 PSF	REF	R215--	76726
TC DL	10.0 PSF	DATE	01/22/13	
BC DL	10.0 PSF	DRW	HCUSR215	13022025
BC LL	0.0 PSF	HC-ENG	KD/AP	
TOT.LD.	40.0 PSF	SEQN-	362603	
DUR.FAC.	1.25	FROM	CDM	
SPACING	24.0"	JREF-	1UT3215_Z01	

Top chord 2x4 SP_#2_N_12A
Bot chord 2x4 SP_#2_N_12A
Webs 2x4 SP_SS_12A :W2 2x4 SP_#2_N_12A:

Lumber grades designated with "12A" use design values approved 1/5/2012 by ALSC.

130 mph wind, 15.00 ft mean hgt, ASCE 7-10, CLOSED bldg, not located within 9.00 ft from roof edge, RISK CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=5.0 psf, GCpi(+/-)=0.18

Wind loads and reactions based on MWFRS.

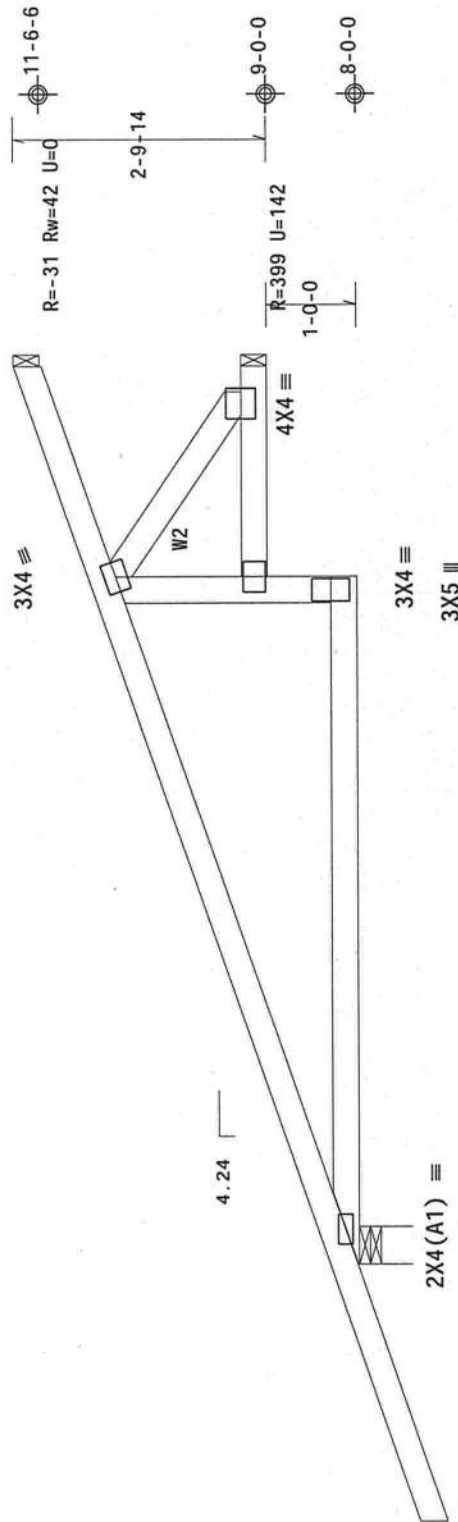
Bottom chord checked for 10.00 psf non-concurrent live load.

The overall height of this truss excluding overhang is 3-9-14.

Special loads

TC- From	Dur. Fac.=1.25 / Plate	Dur.Fac.=1.25)
TC- From	0 pif at -2.83 to	60 pif at 0.00
BC- From	2 pif at 0.00 to	2 pif at 9.90
BC- From	0 pif at -2.83 to	4 pif at 0.00
BC- From	2 pif at 0.00 to	2 pif at 7.57
BC- From	2 pif at 7.57 to	2 pif at 9.90
TC- -73.40 lb Conc. Load at	1.48	
TC- 95.69 lb Conc. Load at	4.31	
TC- 232.01 lb Conc. Load at	7.13	
BC- -8.12 lb Conc. Load at	1.48	
BC- 90.98 lb Conc. Load at	4.31	
BC- 173.27 lb Conc. Load at	7.13	

Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.



2-9-15

7-6-14

9-10-13 Over 3 Supports

R=381 U=312 W=4.95"

PLT TYP. Wave

Design Crit: FBC2010Res/TPI-2007(STB)
FT/RT=20%(0%)/10(0)

Scale =.5"/Ft.

TC LL	20.0 PSF	REF	R215--	76727
TC DL	10.0 PSF	DATE	01/22/13	
BC DL	10.0 PSF	DRW	HCUSR215	13022026
BC LL	0.0 PSF	HC-ENG	KD/AP	
TOT.LD.	40.0 PSF	SEQN-	362655	
DUR.FAC.	1.25	FROM	CDM	
SPACING	24.0"	JREF-	1UT3215_Z01	

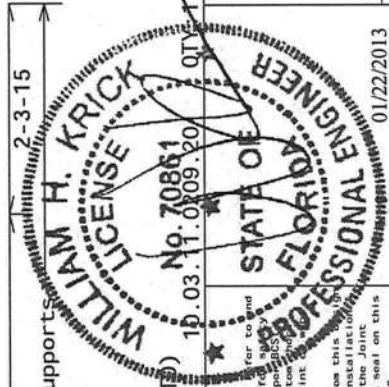
WARNING READ AND FOLLOW ALL NOTES ON THIS SHEET.
FURNISH THIS DESIGN TO ALL CONTRACTORS INCLUDING INSTALLERS.

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. The truss manufacturer shall be responsible for the proper installation of the truss. The truss manufacturer shall provide temporary bracing and blocking for the truss during installation. The truss manufacturer shall provide temporary bracing and blocking for the truss during installation. The truss manufacturer shall provide temporary bracing and blocking for the truss during installation.

ITW Building Components Group Inc. (ITWBCG) shall not be responsible for any deviation from this design. The truss manufacturer shall be responsible for the proper installation of the truss. The truss manufacturer shall provide temporary bracing and blocking for the truss during installation. The truss manufacturer shall provide temporary bracing and blocking for the truss during installation. The truss manufacturer shall provide temporary bracing and blocking for the truss during installation.

ALPINE

ITW Building Components Group Inc.
Haines City, FL 33844
FL COA #0 278



Top chord 2x4 SP #2 N 12A
Bot chord 2x4 SP #2 N 12A
Webs 2x4 SP #2 N 12A

Lumber grades designated with "12A" use design values approved 1/5/2012 by ALSC.

Calculated horizontal deflection is 0.11" due to live load and 0.15" due to dead load.

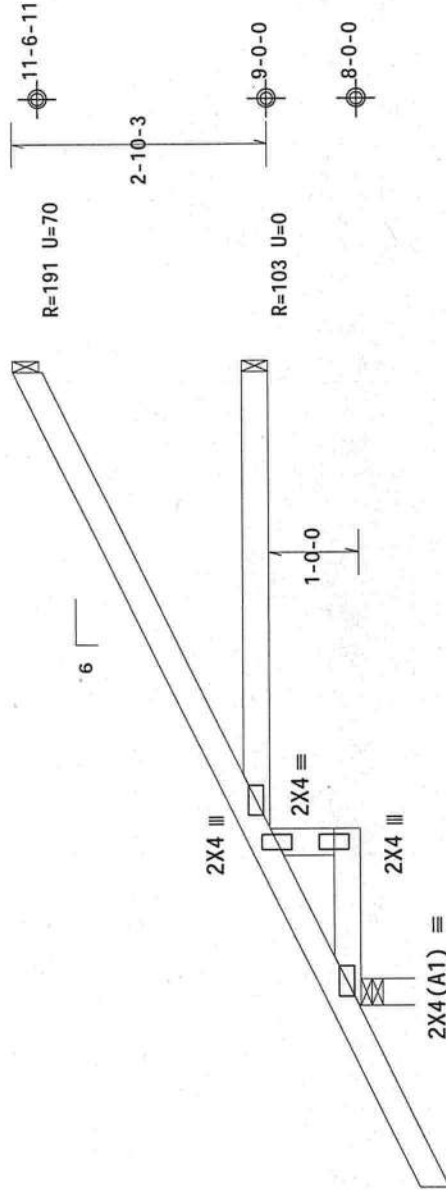
The overall height of this truss excluding overhang is 3-10-3.

130 mph wind, 15.00 ft mean hgt, ASCE 7-10, CLOSED bldg, not located within 4.50 ft from roof edge, RISK CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=5.0 psf. GCpi (+/-)=0.18

Wind loads and reactions based on MWFRS with additional C&C member design.

Bottom chord checked for 10.00 psf non-concurrent live load.

Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.



2-0-0
7-0-0 Over 3 Supports
R=436 U=64 W=3.5
RL=128/-54

Design Crit: FBC2010Res/TPI-2007(STB)
FT/RT=20%(0%)/10(0)

PLT TYP. Wave

Scale = .5"/Ft.

10.03.11.0209.20

No. 70861

FL/-/5/-/R/-

REF R215-- 76728

DATE 01/22/13

DRW HCUSR215 13022027

HC-ENG KD/AP

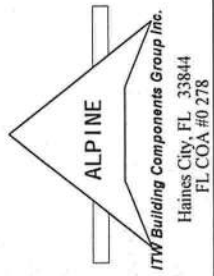
SEQN- 362664

FROM CDM

JREF- 1UT3215_Z01



****WARNING**** READ AND FOLLOW ALL NOTES ON THIS SHEET.
****IMPORTANT**** FURNISH THIS DESIGN TO ALL CONTRACTORS INCLUDING INSTALLERS.
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Follow the latest edition of BCSI (Building Components Safety Institute) Trussing Manual. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid coiling. Locations shown for permanent lateral restraint of trusses shall have bracing installed per BCSI sections B3, B7 or B10, as applicable.
ITW Building Components Group Inc. (ITWBCG) shall not be responsible for any deviation from this design or any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation or bracing of trusses. Apply plates to each face of truss and position as shown above and on the joint details, unless noted otherwise. Refer to drawings 160A-2 for standard plate positions. A seal on this drawing or cover page is not a substitute for the responsibility of the Building Designer per ANSI/TPI 1 Sec. 2. For more information see: general notes page; ITW-BCG: www.itwbcg.com; TPI: www.tpinet.org; WTCA: www.sbcindustry.com; ICC: www.iccsafe.org



Top	chord	2x4	SP_#2	N_12A
Bot	chord	2x4	SP_#2	N_12A

130 mph wind, 15.00 ft mean hgt, ASCE 7-10, CLOSED bldg, Located anywhere in roof, RISK CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=5.0 psf. GCpi(+/-)=0.18

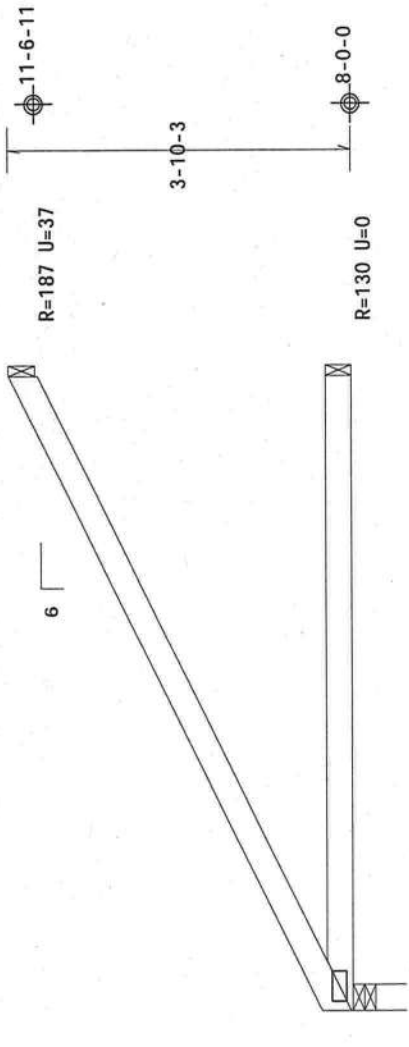
Lumber grades designated with "12A" use design values approved 1/5/2012 by ALSC.

Wind loads and reactions based on MWFRS with additional C&C member design.

Bottom chord checked for 10.00 psf non-concurrent live load.

Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.

MMFRS loads based on trusses located at least 15.00 ft. from roof edge.


$$2 \times 4(A1) \equiv$$

7-0-0
7-0-0 Over 3 Supports

R=286 U=0 W=3.5"
RL=66/-22

PLT TYP. Wave

Design Crit: FBC2010Res/TPI-2007(STD)
FT/RT=20%(0%)/10(0)

Scale = .5"/Ft.

TC LL	20.0	PSF	REF	R215--	76729
TC DL	10.0	PSF	DATE	01/22/13	
BC DL	10.0	PSF	DRW	HCUSTR215	13022028
BC LL	0.0	PSF	HC-ENG	KD/AP	
TOT.LD.	40.0	PSF	SEQN-	362658	
DUR.FAC.	1.25		FROM	CDM	
SPACING	24.0"		JREF-	1UT3215_Z01	

01/22/2013

ALPINE

ITW Building Components Group Inc.

Haines City, FL 33844
FL COA #0278

2 COMPLETE TRUSSES REQUIRED

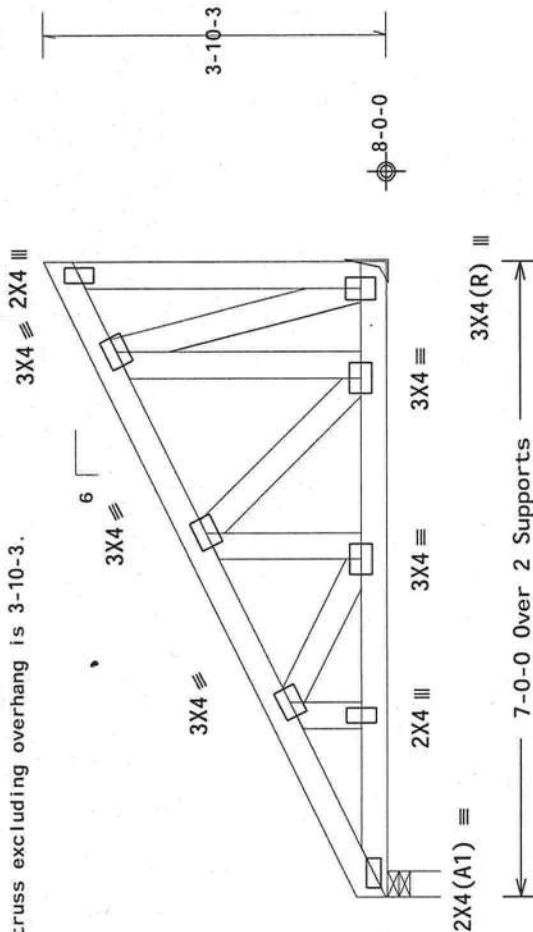
Lumber grades designated with "12A" use design values approved 1/5/2012 by ALSC.

Dur.Fac.=1.25 / Plate Dur.=1.25)
(Lumber
TC- From 30 plf at 0.00 to 30 plf at 7.00
BC- From 10 plf at 0.00 to 10 plf at 7.00
BC- 743.33 lb Conc. Load at 1.94, 3.94 5.94

Wind loads and reactions based on MWFRS:

H = recommended connection based on manufacturer tested capacities and calculations. Conditions may exist that require different connections than indicated. Refer to manufacturer publication for additional information.

The overall height of this truss excluding overhang is 3-10-3.



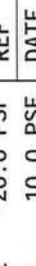
R=1371 U=257 H=LITHIUM HTDP26-2
Supported Member Face(6) U=28"x3" nails
Supported Member Face(7) U=28"x3" nails
Supported Member Face(8) U=28"x3" nails
Supported Member Face(9) U=28"x3" nails

R=1139 U=214 W=3.5"

PLT TYP. Wave

Design Crit: FBC2010Res/TPI-2007(STD)
FT/RT=20%(0%)/10(0)

Scale = .5"/Ft.



ALPINE

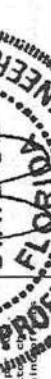
ITW Building Components Group Inc.

Haines City, FL 33844
888.446.2270

****WARNING** READ AND FOLLOW ALL NOTES ON THIS SHEET!**
FURNISH THIS DESIGN TO ALL CONTRACTORS INCLUDING INSTALLERS.

****IMPORTANT****
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 WICA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per the manufacturer's instructions. Trusses shall be installed in accordance with the manufacturer's instructions. Trusses shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraining bracing shall have bracing installed per BCSI sections B3, B7 or B10, as applicable.

ITW Building Components Group Inc. (ITWBCG) shall not be responsible for any deviation from this design or any failure to build the truss in conformance with ANSI/TPI 1- for handling, installing, bracing of trusses. 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. 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 design 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; ITW-BCSI: www.tbcsig.org; TPI: www.tpinet.org; WICA: www.sbcindustry.com;



01/22/2013

TC LL	20.0	PSF	REF	R215--	76730
TC DL	10.0	PSF	DATE	01/22/13	
BC DL	10.0	PSF	DRW	HCUSR215	13022046
BC LL	0.0	PSF	HC-ENG	KD/AP	
TOT. LD.	40.0	PSF	SEQN-	362633	
DUR. FAC.	1.25		FROM	CDM	
SPACING	24.0"		JREF-	1UT3215	Z01

ALPINE

ITW Building Components Group Inc.

nes City, FL 33844
FL COA #0278

Top chord 2x4 SP_#2 N_12A
Bot chord 2x4 SP_#2 N_12A

Lumber grades designated with "12A" use design values approved 1/5/2012 by ALSC.

130 mph wind, 15.00 ft mean hgt, ASCE 7-10, CLOSED bldg, Located anywhere in roof, RISK CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=5.0 psf. GCpi(+/-)=0.18

Bottom chord checked for 10.00 psf non-concurrent live load.

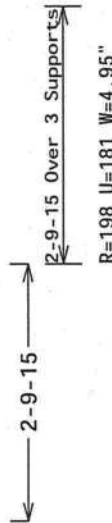
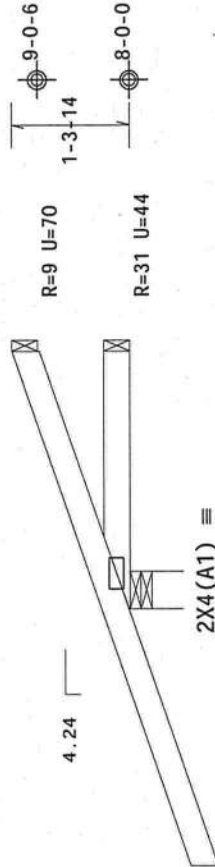
The overall height of this truss excluding overhang is 1-3-14.

Special loads

-----Lumber Dur.Fac.=1.25 / Plate Dur.Fac.=1.25)
TC- From 0 pif at -2.83 to 60 pif at 0.00
TC- From 2 pif at 0.00 to 2 pif at 2.83
BC- From 0 pif at -2.83 to 4 pif at 0.00
BC- From 2 pif at 0.00 to 2 pif at 2.83
TC- -73.40 lb Conc. Load at 1.48
BC- -8.12 lb Conc. Load at 1.48

Wind loads and reactions based on MWFRS.

Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.



PLT TYP. Wave

Design Crit: FBC2010Res/TPI-2007(ST)
FT/RT=20%(0%)/10(O)

Scale = .5"/Ft.

TC LL	20.0 PSF	REF	R215--	76731
TC DL	10.0 PSF	DATE	01/22/13	
BC DL	10.0 PSF	DRW	HCUSR215	13022033
BC LL	0.0 PSF	HC-ENG	KD/AP	
TOT.LD.	40.0 PSF	SEQN-	362833	
DUR. FAC.	1.25	FROM	CDM	
SPACING	24.0"	JREF-	1UT3215_Z01	



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ALPINE
ITW Building Components Group Inc.
Haines City, FL 33844
FL COA #0 278

NAIL SPACING DETAIL

MINIMUM SPACING FOR SINGLE BLOCK IS SHOWN. DOUBLE NAIL SPACINGS AND STAGGER NAILING FOR TWO BLOCKS. GREATER SPACING MAY BE REQUIRED TO AVOID SPLITTING.

BLOCK LOCATION, SIZE, LENGTH, GRADE AND TOTAL NUMBER AND TYPE OF NAILS ARE TO BE SPECIFIED ON SEALED DESIGN REFERENCING THIS DETAIL.

LOAD PERPENDICULAR TO GRAIN

A - EDGE DISTANCE AND SPACING BETWEEN STAGGERED ROWS OF NAILS (6 NAIL DIAMETERS)

B - SPACING OF NAILS IN A ROW (12 NAIL DIAMETERS)

C - END DISTANCE (15 NAIL DIAMETERS)

LOAD PARALLEL TO GRAIN

A - EDGE DISTANCE (6 NAIL DIAMETERS)

C - SPACING OF NAILS IN A ROW AND END DISTANCE (15 NAIL DIAMETERS)

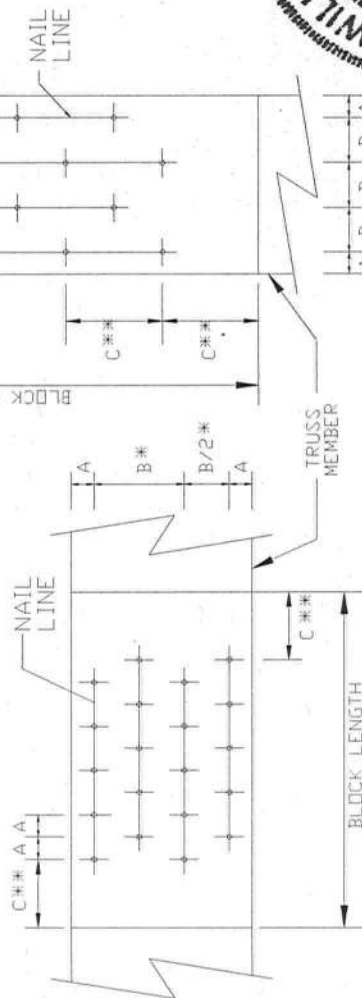
D - SPACING BETWEEN STAGGERED ROWS OF NAILS (7 1/2 NAIL DIAMETERS)

IF NAIL HOLES ARE PREBORED, SOME SPACING MAY BE REDUCED BY THE AMOUNTS GIVEN BELOW:

* SPACING MAY BE REDUCED BY 50%.

** SPACING MAY BE REDUCED BY 33%

DIRECTION OF LOAD AND NAIL ROWS



LOAD APPLIED PERPENDICULAR TO GRAIN

LOAD APPLIED PARALLEL TO GRAIN

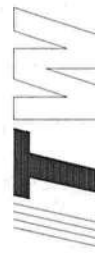
WARNING READ AND FOLLOW ALL NOTES ON THIS SHEET!

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IMPORTANT FURNISH COPY OF THIS DESIGN TO INSTALLATION CONTRACTOR

ITW Building Components Group Inc. (ITWBCG) shall not be responsible for any deviation from this design. The truss manufacturer shall be responsible for the design of the truss and the installation of the truss. The truss manufacturer shall be responsible for the design of the truss and the installation of the truss. The truss manufacturer shall be responsible for the design of the truss and the installation of the truss.

A seal on this drawing or cover page indicates acceptance and professional engineering responsibility for the truss design and installation. The seal shall be in the right margin of this component for any ITW-BCG, www.itwbcg.com, TPI, www.tpi.com, VITAC, www.vitac.com, ICG, www.icg.com.



Building Components Group Inc.

Earth City, MO 63045

MINIMUM NAIL SPACING DISTANCES

NAIL TYPE	DISTANCES			
	A	B*	C**	D
8d BOX (0.113" X 2.5", MIN)	3/4"	1 3/8"	1 3/4"	7/8"
10d BOX (0.128" X 3", MIN)	7/8"	1 5/8"	2"	1"
12d BOX (0.128" X 3.25", MIN)	7/8"	1 5/8"	2"	1"
16d BOX (0.135" X 3.5", MIN)	7/8"	1 5/8"	2 1/8"	1 1/8"
20d BOX (0.148" X 4", MIN)	1"	1 7/8"	2 1/4"	1 1/8"
8d COMMON (0.131" X 2.5", MIN)	7/8"	1 5/8"	2"	1"
10d COMMON (0.148" X 3", MIN)	1"	1 7/8"	2 1/4"	1 1/8"
12d COMMON (0.148" X 3.25", MIN)	1"	1 7/8"	2 1/4"	1 1/8"
16d COMMON (0.162" X 3.5", MIN)	1"	2"	2 1/2"	1 1/4"
GUN (0.120" X 2.5", MIN)	3/4"	1 1/2"	1 7/8"	1"
GUN (0.131" X 2.5", MIN)	7/8"	1 5/8"	2"	1"
GUN (0.120" X 3", MIN)	3/4"	1 1/2"	1 7/8"	1"
GUN (0.131" X 3", MIN)	7/8"	1 5/8"	2"	1"



Jan 22 '13

REF NAIL SPACE

DATE 1/1/09

DRWG CENAIL SP0109

CLB WEB BRACE SUBSTITUTION

THIS DETAIL IS TO BE USED WHEN CONTINUOUS LATERAL BRACING (CLB) IS SPECIFIED ON A TRUSS DESIGN BUT AN ALTERNATIVE WEB BRACING METHOD IS DESIRED.

NOTES:

THIS DETAIL IS ONLY APPLICABLE FOR CHANGING THE SPECIFIED CLB SHOWN ON SINGLE PLY SEALED DESIGNS TO T-BRACING OR SCAB BRACING.

ALTERNATIVE BRACING SPECIFIED IN CHART BELOW MAY BE CONSERVATIVE. FOR MINIMUM ALTERNATIVE BRACING, RE-RUN DESIGN WITH APPROPRIATE BRACING.

WEB MEMBER SIZE	SPECIFIED CLB BRACING	T OR L-BRACE	ALTERNATIVE BRACING	SCAB BRACE
2X3 OR 2X4	1 ROW	2X4	1-2X4	1-2X4
2X3 OR 2X4	2 ROWS	2X6	2X6	2-2X4
2X6	1 ROW	2X4	1-2X6	1-2X6
2X6	2 ROWS	2X6	2X6	2-2X4(*)
2X8	1 ROW	2X6	1-2X8	1-2X8
2X8	2 ROWS	2X6	2X6	2-2X6(*)

T-BRACE, L-BRACE AND SCAB BRACE TO BE SAME SPECIES AND GRADE OR BETTER THAN WEB MEMBER UNLESS SPECIFIED OTHERWISE ON ENGINEER'S SEALED DESIGN.

(*) CENTER SCAB ON WIDE FACE OF WEB. APPLY (1) SCAB TO EACH FACE OF WEB.

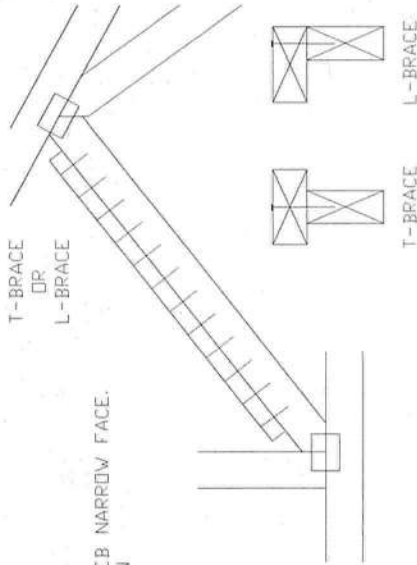
T-BRACING

OR

L-BRACING:

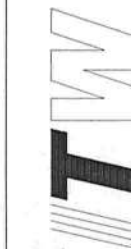
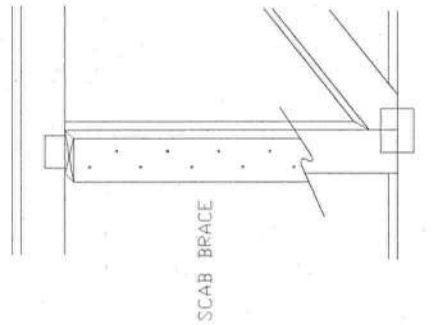
APPLY TO EITHER SIDE OF WEB NARROW FACE. ATTACH WITH 10d BOX OR GUN (0.128" x 3" MIN) NAILS. AT 6" O.C.

BRACE IS A MINIMUM 80% OF WEB MEMBER LENGTH



SCAB BRACING:

APPLY SCAB(S) TO WIDE FACE OF WEB. NO MORE THAN (1) SCAB PER FACE. ATTACH WITH 10d BOX OR GUN (0.128" x 3" MIN) NAILS. AT 6" O.C. BRACE IS A MINIMUM 80% OF WEB MEMBER LENGTH



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TC LL	PSF	REF	CLB SUBST.
TC DL	PSF	DATE	1/1/09
BC DL	PSF	DRWG	BRCLBSUB0109
BC LL	PSF		
TOT. LD.	PSF		
DUR. FAC.			
SPACING			