

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:1UVC487-Z0112075316



Truss Fabricator: **Anderson Truss Company**
Job Identification: **13-136--OWNER BUILDER Bardell Add. -- 10497 SW Tuskenuggee Lake, City, FL**
Truss Count: **3**
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 the seal date per section 61G15-31.003(5a) of the FAC**
Address:
Minimum Design Loads: **Roof - 37.0 PSF @ 1.25 Duration**
Floor - N/A
Wind - 120 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: HCUSR487

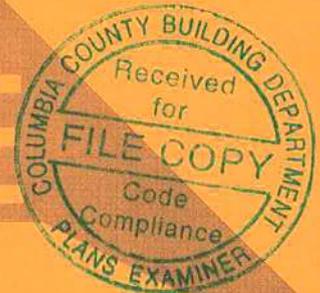
Walter P. Finn
-Truss Design Engineer-

1950 Marley Drive
Haines City, FL 33844

Details: 12015EC1-GBLLETIN-GABRST10-

#	Ref	Description	Drawing#	Date
1	86821--A	17' Common	13102003	04/12/13
2	86822--A1	17' Common	13102002	04/12/13
3	86823--ADG	17' Gable	13102001	04/12/13

ALPINE



(13-136--OWNER BUILDER Bardeil Add. -- 10497 SW Tuskenuggee Lake City, FL - ADG 17' Gable)

Top chord 2x4 SP #1_12A
 Bot chord 2x4 SP #1_12A
 Webs 2x4 SP #3_12A
 :Stack Chord SC1 2x4 SP #1_12A::Stack Chord SC2 2x4 SP #1_12A:

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

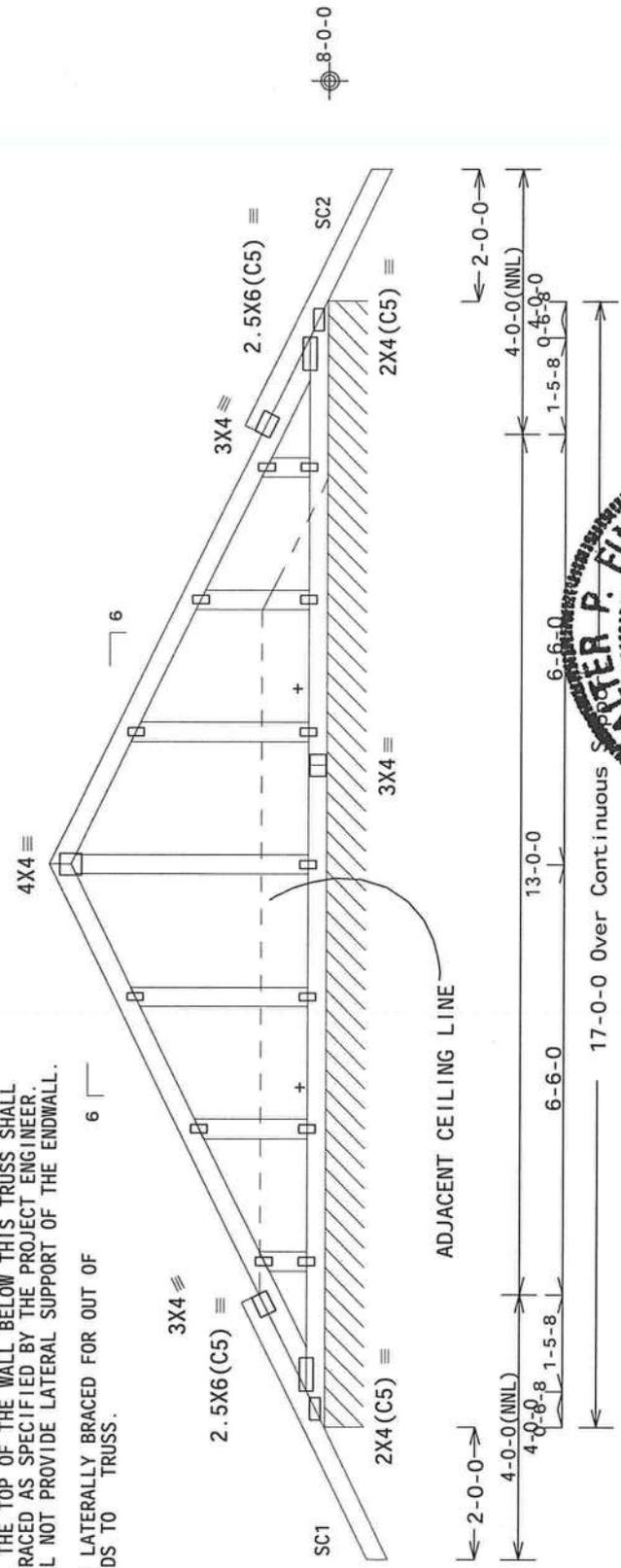
Stacked top chord must NOT be notched or cut in area (NNL). Dropped top chord braced at 24" o.c. intervals. Attach stacked top chord (SC) to dropped top chord in noticable area using 3x4 tie-plates 24" o.c. Center plate on stacked/dropped chord interface, plate length perpendicular to chord length. Splice top chord in noticable area using 3x6.

Gable end supports 8" max rake overhang.

THE PROJECT ENGINEER SHALL PROVIDE FOR ENDWALL STABILITY PER SECTION 2304.3.4.1 OF THE 2010 FLORIDA BUILDING CODE. THE TOP OF THE WALL BELOW THIS TRUSS SHALL BE LATERALLY BRACED AS SPECIFIED BY THE PROJECT ENGINEER. THIS TRUSS WILL NOT PROVIDE LATERAL SUPPORT OF THE ENDWALL.

+ MEMBER TO BE LATERALLY BRACED FOR OUT OF PLANE WIND LOADS TO TRUSS.

Wind loads and reactions based on MWFRS with additional C&C member design.
 See DWGS A12015ENC100212, GBLLETIN0212, & GABRST100212 for more requirements.
 In lieu of structural panels use purlins to brace 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.



R=172 PLF U=16 PLF W=17-0-0
 RL=8/-8 PLF

Note: All Plates Are 1.5X3 Except As Shown.
 Design Crit: FBC2010Res/TPI-2007(S)
 FT/RT=20%(0%)/10(0)

PLT TYP. Wave

Scale = .375"/Ft.



****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 the erection instructions for more information. By TPI and BGC) Trusses shall be erected in accordance with the erection 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 BCS1 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. This seal is the responsibility of the Building Designer per ANSI/TPI 1, Sec. 2. For more information, visit our website. This job's ICC: www.iccsafe.org; TPI: www.tpi.net.org; WTCA: www.abctrustry.com.

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

TC LL	20.0 PSF	FL/-/6/-/1-R/-	Scale = .375"/Ft.
TC DL	7.0 PSF	REF R487--	86823
BC DL	10.0 PSF	DATE	04/12/13
BC LL	0.0 PSF	DRW	HCUSR487 13102001
TOT. LD.	37.0 PSF	HC-ENG	JB/DF
DUR. FAC.	1.25	SEQN-	73442
SPACING	24.0"	JREF-	1UVC487_Z01

Gable Stud Reinforcement Detail

ASCE 7-10: 120 mph Wind Speed, 15' Mean Height, Enclosed, Exposure C, Kzt = 1.00
 Dr: 100 mph Wind Speed, 15' Mean Height, Partially Enclosed, Exposure C, Kzt = 1.00
 Dm: 100 mph Wind Speed, 15' Mean Height, Enclosed, Exposure B, Kzt = 1.00

Gable Vertical Spacing	2x4 Gable Species	Brace Grade	(1) 1x4 'L' Brace *		(2) 2x4 'L' Brace *		(1) 2x6 'L' Brace **		(2) 2x6 'L' Brace **	
			Group A	Group B	Group A	Group B	Group A	Group B	Group A	Group B
Max Gable Vertical Length	SPF	#1 / #2	8' 2"	9' 8"	10' 1"	11' 6"	14' 0"	14' 0"	14' 0"	14' 0"
		#3	7' 9"	9' 7"	9' 11"	11' 5"	14' 0"	14' 0"	14' 0"	14' 0"
		Stud	8' 1"	9' 7"	9' 11"	11' 5"	14' 0"	14' 0"	14' 0"	14' 0"
		Standard	8' 1"	9' 7"	9' 11"	11' 5"	14' 0"	14' 0"	14' 0"	14' 0"
		#1	8' 3"	9' 9"	10' 1"	11' 7"	14' 0"	14' 0"	14' 0"	14' 0"
		#2	4' 10"	8' 2"	9' 8"	10' 1"	11' 6"	14' 0"	14' 0"	14' 0"
	HF	#1 / #2	6' 11"	7' 4"	9' 3"	10' 10"	14' 0"	14' 0"	14' 0"	14' 0"
		#3	6' 11"	7' 4"	9' 3"	10' 10"	14' 0"	14' 0"	14' 0"	14' 0"
		Stud	6' 11"	7' 4"	9' 3"	10' 10"	14' 0"	14' 0"	14' 0"	14' 0"
		Standard	6' 11"	7' 4"	9' 3"	10' 10"	14' 0"	14' 0"	14' 0"	14' 0"
		#1 / #2	5' 6"	9' 9"	11' 1"	11' 6"	13' 2"	13' 9"	14' 0"	14' 0"
		#3	5' 3"	9' 3"	10' 11"	11' 4"	13' 0"	13' 7"	14' 0"	14' 0"
SP	#1 / #2	9' 3"	9' 7"	10' 11"	11' 4"	13' 0"	13' 7"	14' 0"	14' 0"	
	#3	9' 3"	9' 7"	10' 11"	11' 4"	13' 0"	13' 7"	14' 0"	14' 0"	
	Stud	9' 3"	9' 7"	10' 11"	11' 4"	13' 0"	13' 7"	14' 0"	14' 0"	
	Standard	9' 3"	9' 7"	10' 11"	11' 4"	13' 0"	13' 7"	14' 0"	14' 0"	
	#1	9' 10"	11' 2"	11' 7"	13' 3"	14' 0"	14' 0"	14' 0"	14' 0"	
	#2	9' 9"	11' 1"	11' 6"	13' 2"	13' 9"	14' 0"	14' 0"	14' 0"	
DFL	#1 / #2	8' 6"	9' 0"	10' 11"	11' 4"	13' 0"	13' 7"	14' 0"	14' 0"	
	#3	8' 6"	9' 0"	10' 11"	11' 4"	13' 0"	13' 7"	14' 0"	14' 0"	
	Stud	8' 6"	9' 0"	10' 11"	11' 4"	13' 0"	13' 7"	14' 0"	14' 0"	
	Standard	8' 6"	9' 0"	10' 11"	11' 4"	13' 0"	13' 7"	14' 0"	14' 0"	
	#1	10' 2"	10' 7"	12' 0"	12' 6"	14' 0"	14' 0"	14' 0"	14' 0"	
	#2	10' 2"	10' 7"	12' 0"	12' 6"	14' 0"	14' 0"	14' 0"	14' 0"	
SPF	#1 / #2	10' 5"	10' 9"	12' 3"	12' 9"	14' 0"	14' 0"	14' 0"	14' 0"	
	#3	6' 1"	10' 4"	10' 8"	12' 2"	14' 0"	14' 0"	14' 0"	14' 0"	
	Stud	6' 1"	10' 4"	10' 8"	12' 2"	14' 0"	14' 0"	14' 0"	14' 0"	
	Standard	6' 1"	10' 4"	10' 8"	12' 2"	14' 0"	14' 0"	14' 0"	14' 0"	
	#1	5' 9"	9' 9"	10' 5"	12' 0"	14' 0"	14' 0"	14' 0"	14' 0"	
	#2	5' 9"	9' 9"	10' 5"	12' 0"	14' 0"	14' 0"	14' 0"	14' 0"	
HF	#1 / #2	8' 6"	9' 0"	10' 11"	11' 4"	13' 0"	13' 7"	14' 0"	14' 0"	
	#3	8' 6"	9' 0"	10' 11"	11' 4"	13' 0"	13' 7"	14' 0"	14' 0"	
	Stud	8' 6"	9' 0"	10' 11"	11' 4"	13' 0"	13' 7"	14' 0"	14' 0"	
	Standard	8' 6"	9' 0"	10' 11"	11' 4"	13' 0"	13' 7"	14' 0"	14' 0"	
	#1	11' 3"	11' 3"	12' 1"	12' 6"	14' 0"	14' 0"	14' 0"	14' 0"	
	#2	11' 3"	11' 3"	12' 1"	12' 6"	14' 0"	14' 0"	14' 0"	14' 0"	
SP	#1 / #2	9' 0"	9' 0"	10' 11"	11' 4"	13' 0"	13' 7"	14' 0"	14' 0"	
	#3	9' 0"	9' 0"	10' 11"	11' 4"	13' 0"	13' 7"	14' 0"	14' 0"	
	Stud	9' 0"	9' 0"	10' 11"	11' 4"	13' 0"	13' 7"	14' 0"	14' 0"	
	Standard	9' 0"	9' 0"	10' 11"	11' 4"	13' 0"	13' 7"	14' 0"	14' 0"	
	#1	11' 3"	11' 3"	12' 1"	12' 6"	14' 0"	14' 0"	14' 0"	14' 0"	
	#2	11' 3"	11' 3"	12' 1"	12' 6"	14' 0"	14' 0"	14' 0"	14' 0"	
DFL	#1 / #2	8' 6"	9' 0"	10' 11"	11' 4"	13' 0"	13' 7"	14' 0"	14' 0"	
	#3	8' 6"	9' 0"	10' 11"	11' 4"	13' 0"	13' 7"	14' 0"	14' 0"	
	Stud	8' 6"	9' 0"	10' 11"	11' 4"	13' 0"	13' 7"	14' 0"	14' 0"	
	Standard	8' 6"	9' 0"	10' 11"	11' 4"	13' 0"	13' 7"	14' 0"	14' 0"	
	#1	11' 3"	11' 3"	12' 1"	12' 6"	14' 0"	14' 0"	14' 0"	14' 0"	
	#2	11' 3"	11' 3"	12' 1"	12' 6"	14' 0"	14' 0"	14' 0"	14' 0"	

Bracing Group Species and Grades:

Group A:		Group B:	
Spruce-Pine-Fir	Hen-Fir	Spruce-Pine-Fir	Hen-Fir
#1 / #2 Standard	#2 Stud	#1 / #2 Standard	#2 Stud
#3 Standard	#3 Standard	#3 Standard	#3 Standard
Douglas Fir-Larch	Southern Pine***	Douglas Fir-Larch	Southern Pine***
#3 Stud	#3 Stud	#3 Stud	#3 Stud
#3 Standard	Standard	#3 Standard	Standard

Group B:

Hen-Fir	#1
#1 & Btr	#1
Douglas Fir-Larch	#2
Southern Pine***	#1
#1	#1
#2	#2

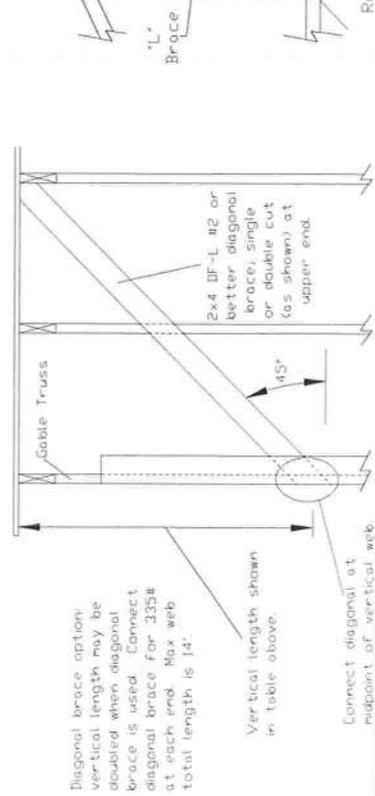
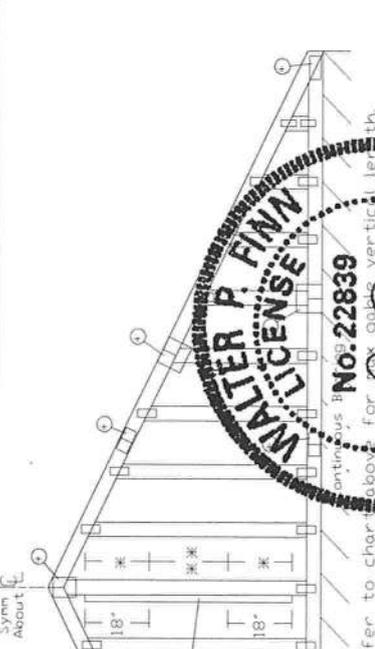
1x4 Braces shall be SRB (Stress-Rated Board).
 ***For 1x4 So. Pine use only Industrial 55 or Industrial 45 Stress-Rated Boards. Group B values may be used with these grades.
Gable Truss Detail Notes:
 Wind Load deflection criterion is L/240
 Provide uplift connections for 35 plf over continuous bearing (5 psf TC Dead Load).
 Gable end supports load from 4" o.c. rafters with 2" o.c. overhang, or 12" plywood overhang.
 So. Pine lumber design values based on the ALSC January, 2012 rule.

Gable Vertical Plate Sizes

Vertical Length	No. Splice
Less than 4' 0"	1X4 or 2X3
Greater than 4' 0", but less than 11' 6"	2X4
Greater than 11' 6"	2.5X4

* Refer to common truss design for peak, splice, and heel plates.

Refer to the Building Designer for conditions not addressed by this detail.



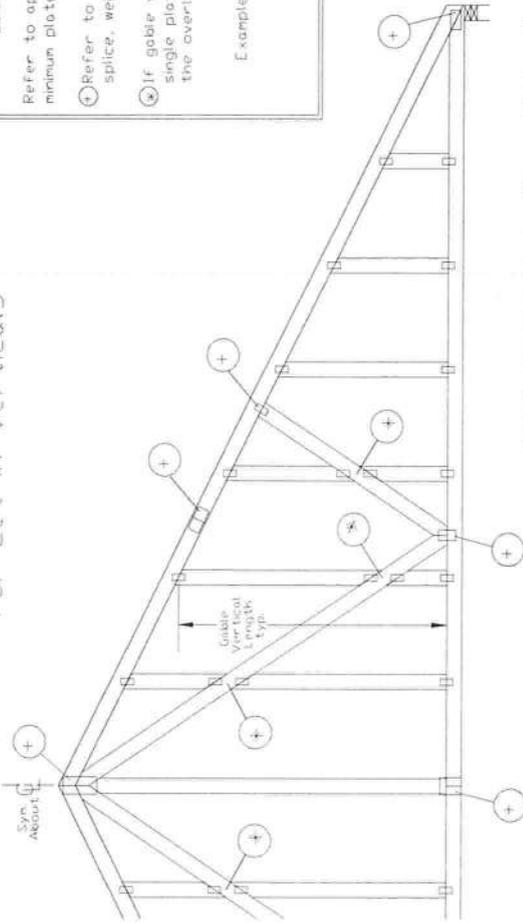
REF ASCE7-10-GABI2015
 DATE 2/14/12
 DRWG A12015ENC100212

MAX. TOT. L.D. 60 PSF
 MAX. SPACING 24' 0"



WARNING READ AND FILL IN ALL NOTES ON THIS DRAWING
 IMPORTANT FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS
 Trussing requires on time care in fabrication, handling, shipping, installing and bracing. Be sure to follow the latest edition of BCSP Building Component Safety Information by ISI and WCA for practices prior to performing these functions. Installers shall provide temporary 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 resistance shall be provided. Refer to drawings for details on the joint details, unless noted a decrease. Refer to drawings 160A-2 for standard plate positions.
 [TW] Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure of the truss or bracing in accordance with ASCE7/1011, or for handling, shipping, installation & bracing of the truss or bracing. The responsibility for the design shown, the stability and occupancy of professional engineering responsibility solely for the design shown. The stability and occupancy of professional engineering responsibility solely for the design shown. The stability and occupancy of professional engineering responsibility solely for the design shown. The stability and occupancy of professional engineering responsibility solely for the design shown.
 For more information see this job's general notes page and these web sites:
 [TW]BCL: www.tbwcl.com, [TW] www.tbwcl.com, [TW] www.tbwcl.com, [TW] www.tbwcl.com, [TW] www.tbwcl.com
 Earth City, MO 63045
 Apr 12 '13
 04/12/2013

Gable Detail For Let-in Verticals

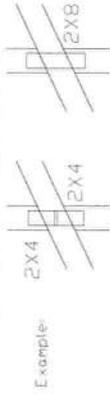


Gable Truss Plate Sizes

Refer to appropriate ITV gable detail for minimum plate sizes for vertical studs.

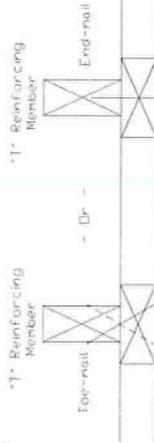
Ⓛ Refer to Engineered truss design for peak, splice, web, and heel plates.

Ⓧ If gable vertical plates overlap, use a single plate that covers the total area of the overlapped plates to span the web.



Example

T Reinforcement Attachment Detail



To convert from "L" to "T" reinforcing members, multiply "L" increase by length (based on appropriate ITV gable detail).

Maximum allowable "T" reinforced gable vertical length is 14' from top to bottom chord.

"T" reinforcing member material must match size, specie, and grade of the "L" reinforcing member.

Web Length Increase w/ "T" Brace

"T" Reinf. Mbr. Size	"T" Increase
2x4	30 %
2x6	20 %

Example:

- ASCE 7-10 Wind Speed = 120 mph
- Mean Roof Height = 30 ft, $K_{zt} = 1.00$
- Gable Vertical = 24' o.c. SP #3
- "T" Reinforcing Member Size = 2x4
- "T" Brace Increase (From Above) = 30% = 1.30
- (1) 2x4 "L" Brace Length = 8' 7"
- Maximum "T" Reinforced Gable Vertical Length = 1.30 x 8' 7" = 11' 2"

Provide connections for uplift specified on the engineered truss design.

Attach each "T" reinforcing member with

End Driven Nails:

- 10d Common (0.148" x 3.1" min) Nails at 4' o.c. plus
- (4) nails in the top and bottom chords.

Toenails Nails:

- 10d Common (0.148" x 3.1" min) Toenails at 4' o.c. plus
- (4) toenails in the top and bottom chords.

This detail to be used with the appropriate ITV gable detail for ASCE

wind load:

- ASCE 7-98 Gable Detail Drawings
 - A13015980109, A12015980109, A10115980109, A10015980109,
 - A13030980109, A12030980109, A11030980109, A10030980109
- ASCE 7-02 Gable Detail Drawings
 - A13015020109, A12015020109, A11015020109, A10015020109,
 - A1303020109, A1203020109, A1103020109, A1003020109
- ASCE 7-05 Gable Detail Drawings
 - A13015050109, A12015050109, A11015050109, A10015050109,
 - A1303050109, A1203050109, A1103050109, A1003050109
- ASCE 7-10 Gable Detail Drawings
 - A11515ENC100212, A12015ENC100212, A14015ENC100212,
 - A18015ENC100212, A20015ENC100212, A2015ENC100212,
 - A11530ENC100212, A12030ENC100212, A14030ENC100212,
 - A18030ENC100212, A20030ENC100212, A20130ENC100212

See appropriate ITV gable detail for maximum reinforced gable vertical length.

WARNING READ AND FOLLOW ALL NOTES IN THIS DRAWING

IMPORTANT FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS.

Trusswork requires extreme care in fabricating, handling, shipping, installing and bracing. Refer to the latest edition of BCSI Building Component Safety Information for IPI and VICAL for details on proper bracing and installation. Trusswork shall be installed in accordance with the design drawings. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have properly attached rigid sheathing. Locations shown for permanent lateral restraint shall be installed per BCSI sections 83, 87 or 810, as applicable. Apply plates to each face of all web members on the joint details, unless noted otherwise. Refer to drawings 100A-2 for standard plate positions.

ITV Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/APA T, or for handling, shipping, installation & bracing. The truss manufacturer shall be responsible for providing the truss with the appropriate engineering and professional engineering responsibility solely covering the truss. The truss manufacturer shall be responsible for any structure is the responsibility of the Building Designer per ANSI/APA T Sec.2. For more information see this job's general notes page and these web sites: ITVBuild: www.itvbuild.com, IPI: www.ipi-truss.com, VICAL: www.vicaltruss.com, ICC: www.iccsafe.org



Building Components Group Inc.

Earth City, MO 63045



04/12/2013

Apr 12 '13

REF	LET-IN VERT
DATE	2/16/12
DRWG	GBLLETIN0212
MAX. TOT. LD.	60 PSF
DUR. FAC.	ANY
MAX. SPACING	24.0"

ASCE 7-10: 120 mph, 30' Mean Height, Closed, Exposure C Common Residential Gable End Wind Bracing Requirements - Stiffeners

120 mph, 30ft, Mean Hgt, ASCE 7-10, Enclosed, Exp C, or
 100 mph, 30ft, Mean Hgt, ASCE 7-10, Enclosed, Exp D, or
 100 mph, 30ft, Mean Hgt, ASCE 7-10, Part. Enclosed, Exp C,
 Kzt = 1.00, Wind TC DL=5.0 psf, Wind BC DL=5.0 psf.

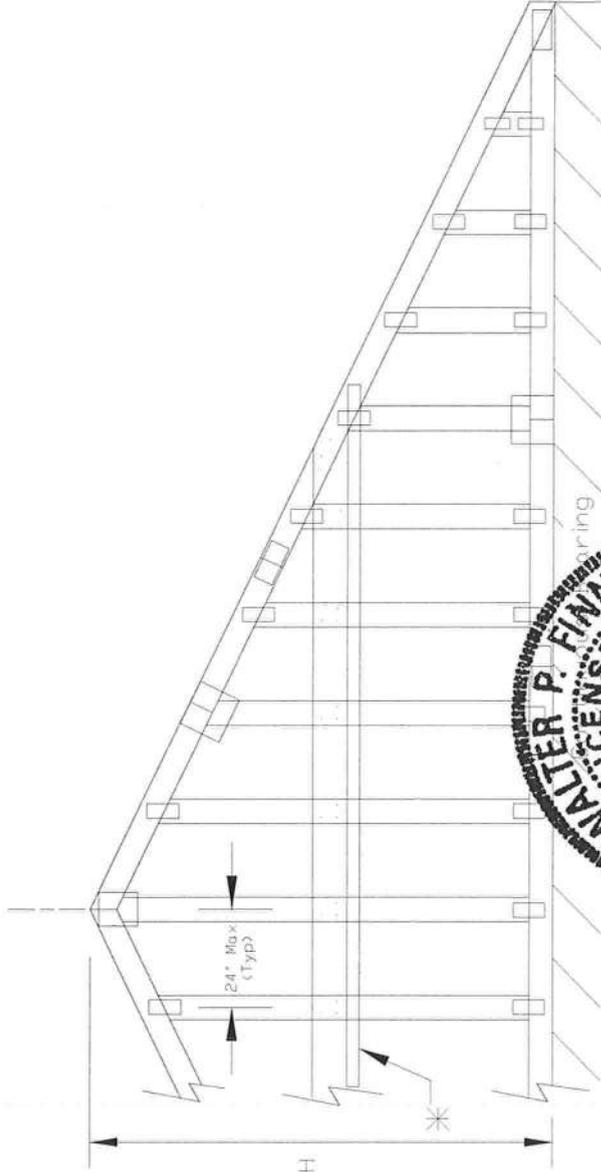
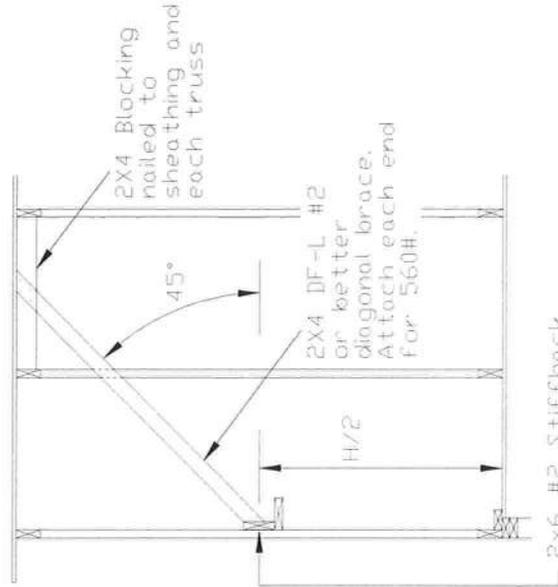
Lateral chord bracing requirements
 Top: Continuous roof sheathing
 Bot: Continuous ceiling diaphragm

See Engineer's sealed design referencing this detail
 for lumber, plates, and other information not shown
 on this detail.

Nails: 10d box or gun (0.128"x3",min) nails.

H Less than 4'6" - no stud bracing required
 H Greater than 4'6" to 7'6" in length
 provide a 2x6 stiffback at mid-height and brace
 to roof diaphragm every 6'0" (see detail below or
 refer to DRWG A12030ENC10).
 H Greater than 7'6" to 12'0" max:
 provide a 2x6 stiffback at mid-height and brace
 to roof diaphragm every 4'0" (see detail below or
 refer to DRWG A12030ENC10).

* Optional 2x L-reinforcement attached
 to stiffback with 10d box or gun
 (0.128" x 3", min.) nails @ 6" o.c.



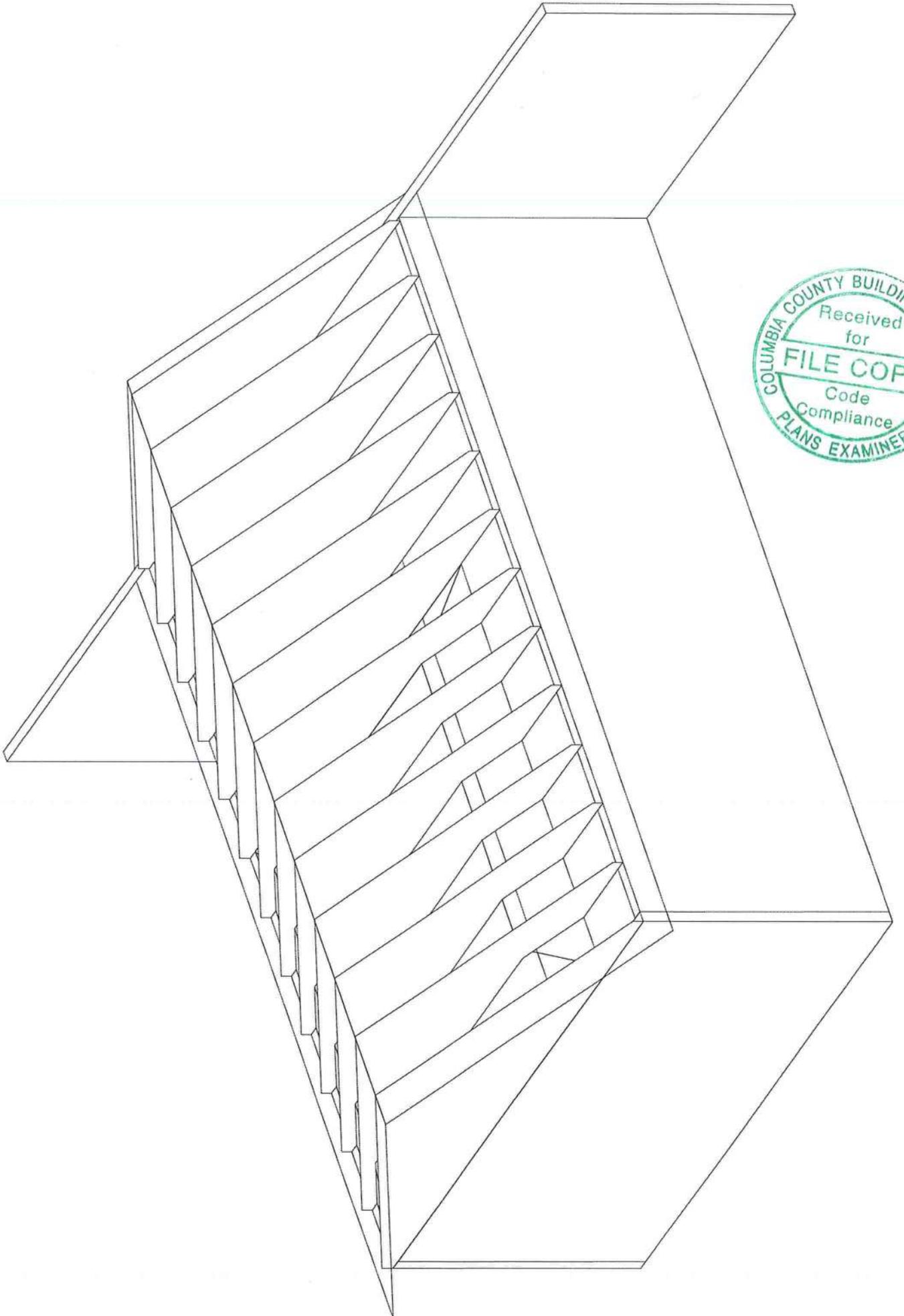
*****WARNING*** READ AND FOLLOW ALL NOTES ON THIS DRAWING
 BEFORE INSTALLING THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS.**
 Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to the
 follow the latest edition of BCSI Building Component Safety Information by IPI and VTCI for
 practices prior to performing these functions. Installers shall provide temporary bracing per
 unless noted otherwise, top chord shall have properly attached structural sheathing and bot
 chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral resis
 tance are for reference only. Blocking and Bracing shall be installed as applicable. Apply plates
 to each face of truss and position as shown above on the joint details, unless noted otherwise.
 Refer to drawings 10d-7 for standard plate positions.
 ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any
 failure to build the truss in accordance with ANSI/APA I, or for handling, shipping, installation &
 bracing of the truss. The manufacturer shall not be held responsible for the design or the use of
 professional engineering responsibility solely for the design shown. The suitability and use of this
 drawing for any structure is the responsibility of the Building Designer per ANSI/APA I Sec.2
 For more information see this job's general notes page and these web sites:
 ITWBCG www.itwbcg.com, IPI www.ipi.net, VTCI www.vtcinstruments.com, ICC www.iccsafe.org

REF	GE	WHALER
DATE	2/14/12	
DRWG	GABRST100212	

MAX. TOT. LD.	60 PSF
MAX. SPACING	

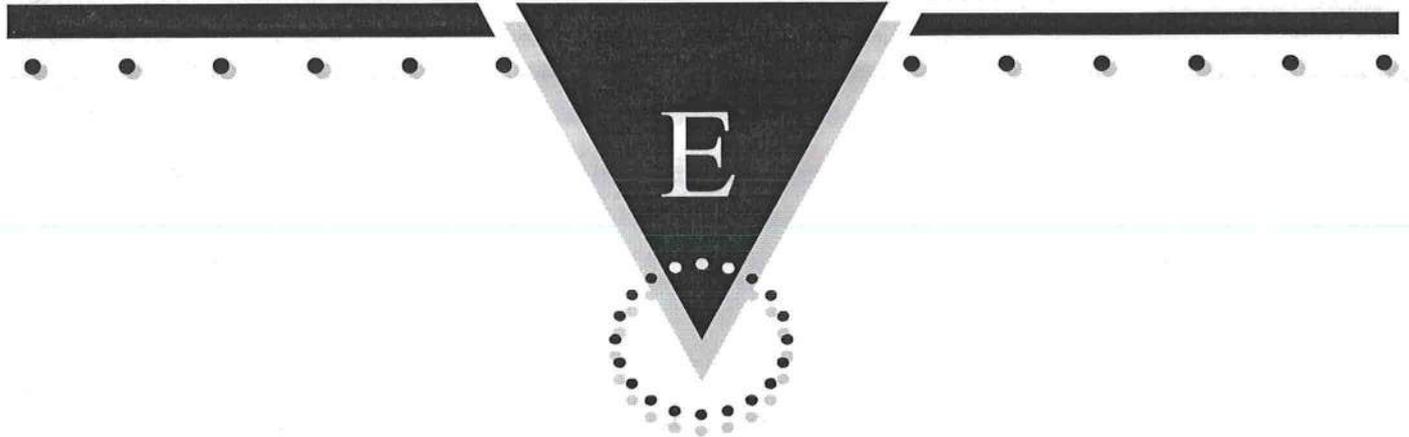
04/12/2013
 Apr 12 '13

Building Components Group Inc.
 Earth City, MO 63045



Schafer Engineering, LLC

14705 Main St. Alachua FL 32615



Prepared for:

THE BARDELL ADDITION
10497 SW TUSTENUGGEE AVE
LAKE CITY, FLORIDA

By:

Schafer Engineering, LLC

386-462-1340 / 352-375-6329

NO COPIES ARE TO BE PERMITTED



SCHAFFER ENGINEERING, LLC

7104 NW 42ND LANE \ GAINESVILLE FL. 32606
 PHONE: 386-462-1340 \ 352-375-6329

Trusses: Pre-engineered, pre-fabricated with the manufacturer's required bracing system installed.

Roof Sheathing: Type: OSB Size: 7/16" Fastener type nails: 8d / .113 Ring Shank
 Interior zone spacing: Interior: 6" Periphery: 4"
 Edge and end zone spacing: Interior: 6" Periphery: 4"

Double Top Plate: Type: Spruce Grade: #1 #2 Size: 2 x 4 Nail Spacing: 8" o.c.

Stud Type: Spruce Grade: #1 #2 Size: 2 x 4
 Interior stud spacing: 16" End stud spacing: 16"

Shear Wall Siding: Type: OSB Thickness: 7/16"
11 ft Trans: Fastener 8d/131 Spacing: Int: 8 Edge: 4"
27 ft Trans: Fastener 8d/131 Spacing: Int: 8 Edge: 4"

Allowable Unit Shear on Shear Walls: 314 pounds per linear foot
 Unit Shear Transferred from Diaphragm: Trans: 204 Long: 65

Wall Tension Transferred by: Siding Nails: 8d/131 @ 4" O.C. Edges

Foundation Anchor Bolts: Concrete Strength: 3000 psi Size: 1/2"

Washer: 2" Embedment: 7" Location of first anchor bolt from corner: 8"

Anchor Bolts @ 48" o.c. Model: A307 Loc. from corner: 8"

Type of Foundation: (1) - #5 rebar continuous required in bond beam.
 Floor Slab: 4" Cmu size: 8" x 16" Height: 24" Rein.: #5 at 72" o.c.

Monolithic Footing: Depth: 20" Bottom Width: 12 Rein.: 2 #5 rebars

Stemwall Footing: Width: 20 Depth: 10 Rein.: 2 #5 rebar

Interior Footings 16" Wide X 10" Deep with 2-#5 rebar continuous

Porch Columns: _____ Column Fasteners: _____

Special Comments: Install 2 ply 2 x 12 syp #2 headers with 7/16"
osb fitch over all window and doors.

Notes:

1. Balloon frame all gable ends unless accompanied by gable end detail
2. All walls to be nailed with same nailing pattern as the shear walls.
3. This wind load is not valid without a raised, embossed seal. (NO COPIES).
4. 1500 psf soil bearing pressure minimum.
5. Fiber mesh or WWM may be used in concrete slab. All steel must be grade 40 min.
6. Trusses must be installed and anchored in accordance to the truss engineering.
7. The foundation is for minimum design use, and may be increased.
8. Wind load is for one use only \ FBC-2010 \ No copies permitted

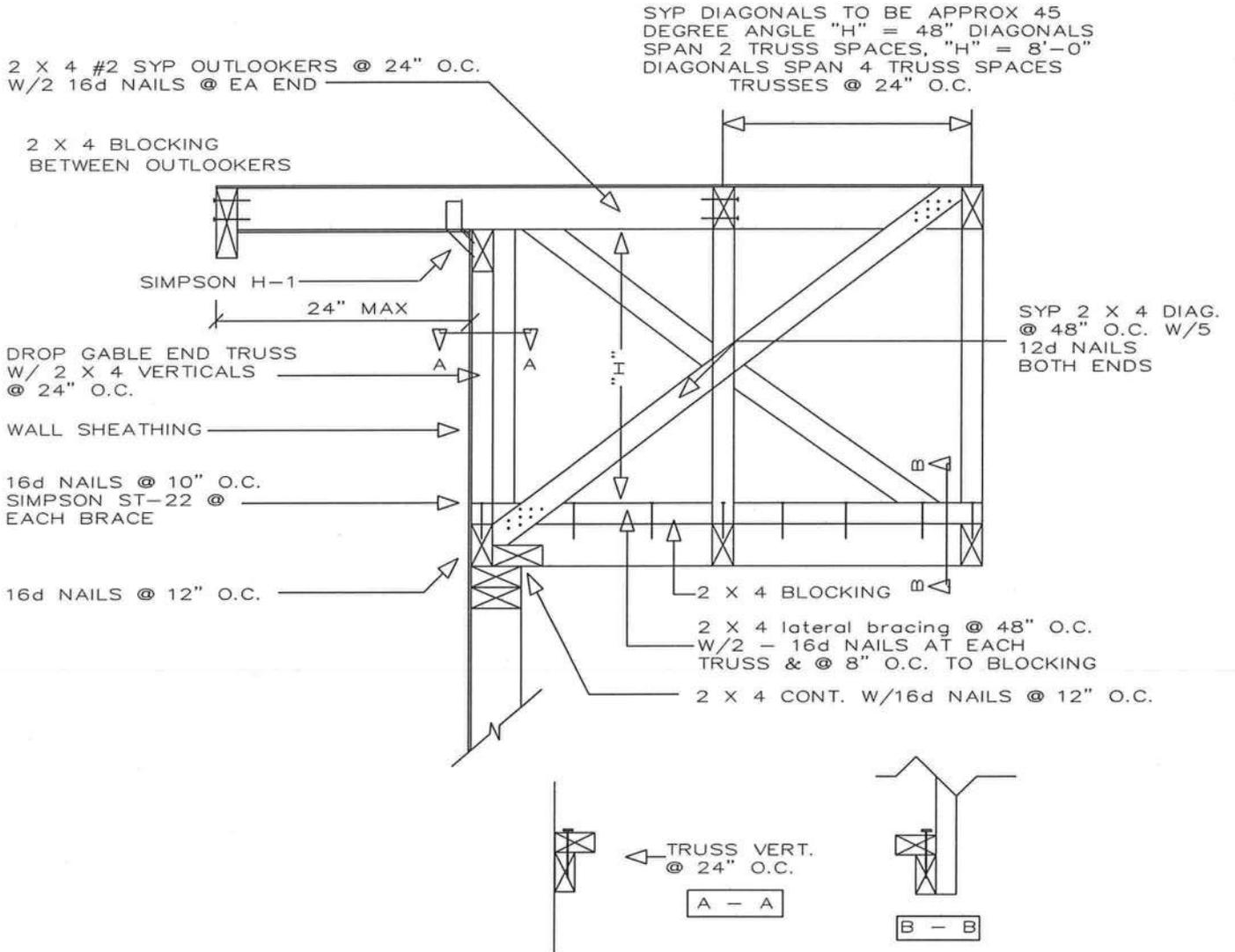
B. Schaffer
2-20-13

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TYPICAL GABLE END BRACING

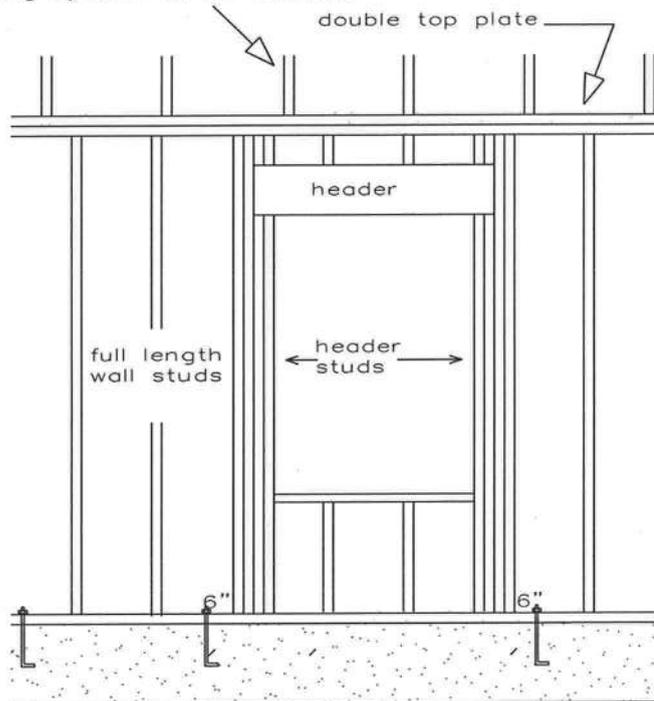
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see truss engineering for required anchorage from truss to top plate and bracing system to be installed



total each truss uplift on the header and divide by two for header and header stud anchorages

		Maximum Header Span (ft)					
		3'	6'	9'	12'	15'	18'
		Number of Header Studs Supporting End of Header					
		1	1	2	2	2	2
		Number of Full Length Studs at Each End of Header					
Unsupported Wall Height	Stud Spacing						
10'-0" or less	12"	2	2	3	3	3	3
	16"	2	2	3	3	3	3
	24"	1	2	2	2	2	2
Greater than 10'-0"	12"	2	2	3	4	5	5
	16"	2	2	3	3	4	4
	24"	1	2	2	2	3	3

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TIE-DOWN TABLES

HEADER STRAPPING				
Uplift Lbs	Top Connector	Rating Lbs	Bottom Connector	Rating Lbs
to 455	LSTA19	635	H3	320
to 910	LSTA12	795	2-H3	640
to 1265	LSTA18	1110	LTT19	1305
to 1750	2-LSTA12	1810	LTT20	1750
to 2530	2-LSTA18	2530	HD2A-2.5	2165
to 2865	3-LSTA18	3255	HD2A-3.5	2865
to 3700	3-LSTA24	3880	HD5A-3	3130

Total the uplift for each truss sitting on the header and divide by 2 to determine the uplift on the header. Use proper bolt anchors sufficient to support required uplift loads.

TRUSSES \ GIRDERS			
Uplift Lbs	Top Connector	Bottom Connector	Rating Lbs
to 535	H2.5A	NA	
to 1015	H10A	NA	
to 1215	TS22	LTT19	1305
to 1750	2-TS22	LTT20	1750
to 2570	2-TS22	HD2A	2775
to 3665	3-TS22	HD5A	4010
to 5420	2-MST37	HTT22	5250
to 9660	2-MST60	HD10A	9540

Two 12d common toenails are required per truss for each bearing point into top plate.
 It is the contractors responsibility to provide a continuous load path from truss to foundation.

	TOP CONNECTOR	RATING LBS	BOTTOM CONNECTOR	RATING LBS
BEAM SEATS	LSTA18	1110	LTT19	1305
POSTS	2-LSTA18	2220	ABU44	2300

1. Simpson or equivalent hardware may be used.
 For nailing into spruce members, multiply table values by .86
2. See truss engineering for anchor uplift values.
3. This schedule is not meant to be a replacement to the specified values of any manufactures values.

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Wind Load Design per ASCE 7-10

User Input Data		
Structure Type	Building	
Basic Wind Speed (V)	135	mph
Structural Category	II	
Exposure	B	
Struc Nat Frequency (n1)	1	Hz
Slope of Roof (Theta)	26.6	Deg
Type of Roof	Gabled	
Eave Height (Eht)	8.00	ft
Ridge Height (RHt)	13.67	ft
Mean Roof Height (Ht)	11.33	ft
Width Perp. to Wind (B)	17.00	ft
Width Parallel to Wind (L)	24.00	ft
Damping Ratio (beta)	0.01	

Red values should be changed only through "Main Menu"

Calculated Parameters	
Type of Structure	
Height/Least Horizontal Dim	0.67
Flexible Structure	No

Calculated Parameters		
Importance Factor	1	
<i>Non-Hurricane, Hurricane (v=85-100 mph) & Alaska</i>		
Table C6-4 Values		
Alpha =	7.000	
zg =	1200.000	
At =	0.143	
Bt =	0.840	
Am =	0.250	
Bm =	0.450	
Cc =	0.300	
l =	320.00	ft
Epsilon =	0.333	
Zmin =	30.00	ft

Gust Factor Category I: Rigid Structures - Simplified Method		
Gust1	For rigid structures (Nat Freq > 1 Hz) use 0.85	0.85
Gust Factor Category II: Rigid Structures - Complete Analysis		
Zm	Zmin	30.00 ft
lzm	$Cc * (33/z)^{0.167}$	0.3048
Lzm	$l*(zm/33)^{Epsilon}$	309.99 ft
Q	$(1/(1+0.63*((B+Ht)/Lzm)^{0.63}))^{0.5}$	0.9368
Gust2	$0.925*((1+1.7*lzm*3.4*Q)/(1+1.7*3.4*lzm))$	0.8877
Gust Factor Category III: Flexible or Dynamically Sensitive Structures		
Vhref	$V*(5280/3600)$	198.00 ft/s
Vzm	$bm*(zm/33)^{Am}*Vhref$	87.00 ft/s
NF1	$NatFreq*Lzm/Vzm$	3.56 Hz
Rn	$(7.47*NF1)/(1+10.302*NF1)^{1.667}$	0.0627
Nh	$4.6*NatFreq*Ht/Vzm$	0.60
Nb	$4.6*NatFreq*B/Vzm$	0.90
Nd	$15.4*NatFreq*Depth/Vzm$	4.25
Rh	$1/Nh-(1/(2*Nh^2)*(1-Exp(-2*Nh)))$	0.6965
Rb	$1/Nb-(1/(2*Nb^2)*(1-Exp(-2*Nb)))$	0.5962
Rd	$1/Nd-(1/(2*Nd^2)*(1-Exp(-2*Nd)))$	0.2077
RR	$((1/Beta)*Rn*Rh*Rb*(0.53+0.47*Rd))^{0.5}$	1.2786
gg	$+(2*LN(3600*n1))^{0.5}+0.577/(2*LN(3600*n1))^{0.5}$	4.19
Gust3	$0.925*((1+1.7*lzm*(3.4^2*Q^2+GG^2*RR^2)^{0.5})/(1+1.7*3.4*lzm))$	1.42

Gust Factor Summary			
Main Wind-force resisting system:		Components and Cladding:	
Gust Factor Category:	I	Gust Factor Category:	I
Gust Factor (G)	0.89	Gust Factor (G)	0.89

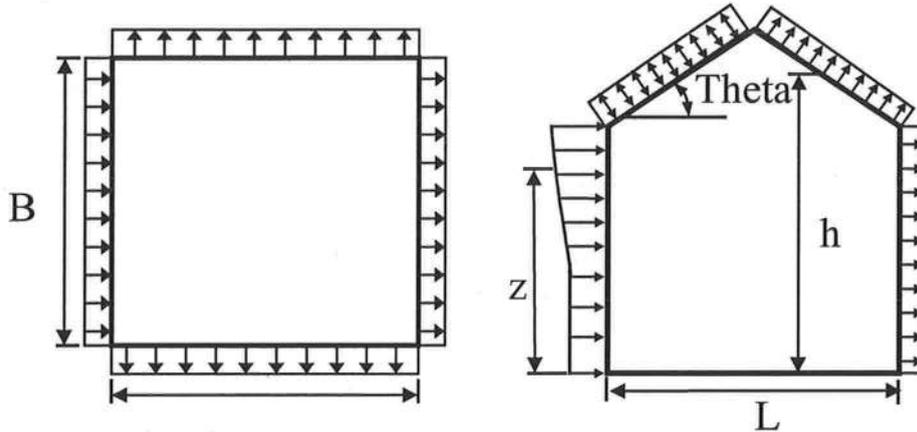
Wind Load Design per ASCE 7-10

6.5.12.2.1 Design Wind Pressure - Buildings of All Heights (Non-flexible)

Elev. ft	Kz	Kzt	Kd	qz lb/ft ²	Pressure (lb/ft ²)	
					Windward Wall*	
					+GCpi	-GCpi
15	0.70	1.00	1.00	32.69	18.39	28.04

Figure 6-3 - External Pressure Coefficients, Cp

Loads on Main Wind-Force Resisting Systems



Variable	Formula	Value	Units
Kh	$2.01 \cdot (15/z_g)^{2/\alpha}$	0.57	
Kht	Topographic factor (Fig 6-2)	1.00	
Qh	$.00256 \cdot (V)^2 \cdot \text{ImpFac} \cdot K_h \cdot K_{ht} \cdot K_d$	26.81	psf

Wall Pressure Coefficients, Cp	
Surface	Cp
Windward Wall (See Figure 6.5.12.2.1 for Pressures)	0.80

Roof Pressure Coefficients, Cp	
Roof Area (sq. ft.)	-
Reduction Factor	1.00

Description	Cp	Pressure (psf)	
		+GCpi	-GCpi
Leeward Walls (Wind Dir Parallel to 17 ft wall)	-0.42	-14.77	-5.11
Leeward Walls (Wind Dir Parallel to 24 ft wall)	-0.50	-16.73	-7.07
Side Walls	-0.70	-21.49	-11.84
Roof - Normal to Ridge (Theta >= 10)			
Windward - Max Negative	-0.26	-11.02	-1.37
Windward - Max Positive	0.21	0.20	9.85
Leeward Normal to Ridge	-0.60	-19.11	-9.46
Overhang Top	-0.26	-6.20	-6.20
Overhang Bottom	0.80	0.71	0.71
Roof - Parallel to Ridge (All Theta)			
Dist from Windward Edge: 0 ft to 5.665 ft	-0.90	-26.25	-16.60
Dist from Windward Edge: 5.665 ft to 11.33 ft	-0.90	-26.25	-16.60
Dist from Windward Edge: 11.33 ft to 22.66 ft	-0.50	-16.73	-7.07
Dist from Windward Edge: > 22.66 ft	-0.30	-11.97	-2.31

Wind Load Design per ASCE 7-10

* Horizontal distance from windward edge

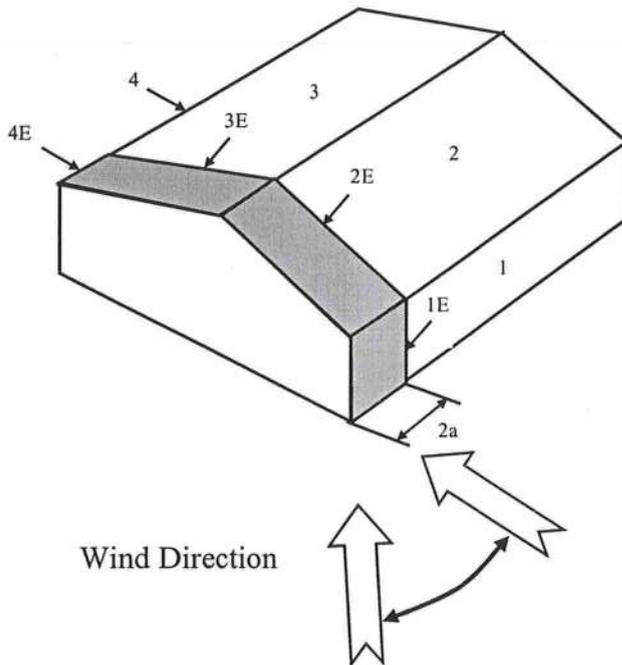
Figure 6-4 - External Pressure Coefficients, GCpf

Loads on Main Wind-Force Resisting Systems w/ Ht <= 60 ft

$$\begin{aligned}
 K_h &= 2.01 \cdot (15/z_g)^{(2/\alpha)} &= & 0.57 \\
 K_{ht} &= \text{Topographic factor (Fig 6-2)} &= & 1.00 \\
 Q_h &= 0.00256 \cdot (V)^2 \cdot \text{ImpFac} \cdot K_h \cdot K_{ht} \cdot K_d &= & 26.81
 \end{aligned}$$

Case A						
Surface	GCpf	+GCpi	-GCpi	qh (psf)	Min P (psf)	Max P (psf)
1	0.55	0.18	-0.18	32.69	12.09	23.85
2	-0.10	0.18	-0.18	32.69	-9.02	2.75
3	-0.45	0.18	-0.18	32.69	-20.49	-8.73
4	-0.39	0.18	-0.18	32.69	-18.64	-6.88
5	0.00	0.18	-0.18	32.69	-5.88	5.88
6	0.00	0.18	-0.18	32.69	-5.88	5.88
1E	0.73	0.18	-0.18	32.69	17.89	29.66
2E	-0.19	0.18	-0.18	32.69	-11.95	-0.18
3E	-0.58	0.18	-0.18	32.69	-24.99	-13.22
4E	-0.53	0.18	-0.18	32.69	-23.35	-11.58
5E	0.00	0.18	-0.18	32.69	-5.88	5.88
6E	0.00	0.18	-0.18	32.69	-5.88	5.88

* $p = q_h \cdot (GC_{pf} - GC_{pi})$



Wind Load Design per ASCE 7-10
Figure 6-4 - External Pressure Coefficients, GCpf
 Loads on Main Wind-Force Resisting Systems w/ Ht <= 60 ft

$K_h = 2.01 \cdot (15/z_g)^{2/\alpha} = 0.57$
 $K_{ht} = \text{Topographic factor (Fig 6-2)} = 1.00$
 $Q_h = 0.00256 \cdot (V)^2 \cdot \text{ImpFac} \cdot K_h \cdot K_{ht} \cdot K_d = 26.81$

Case B						
Surface	GCpf	+GCpi	-GCpi	qh (psf)	Min P (psf)	Max P (psf)
1	-0.45	0.18	-0.18	32.69	-20.59	-8.83
2	-0.69	0.18	-0.18	32.69	-28.44	-16.67
3	-0.37	0.18	-0.18	32.69	-17.98	-6.21
4	-0.45	0.18	-0.18	32.69	-20.59	-8.83
5	0.40	0.18	-0.18	32.69	7.19	18.96
6	-0.29	0.18	-0.18	32.69	-15.36	-3.60
1E	-0.48	0.18	-0.18	32.69	-21.57	-9.81
2E	-1.07	0.18	-0.18	32.69	-40.86	-29.09
3E	-0.53	0.18	-0.18	32.69	-23.21	-11.44
4E	-0.48	0.18	-0.18	32.69	-21.57	-9.81
5E	0.61	0.18	-0.18	32.69	14.06	25.82
6E	-0.43	0.18	-0.18	32.69	-19.94	-8.17

* p = qh * (GCpf - GCpi)

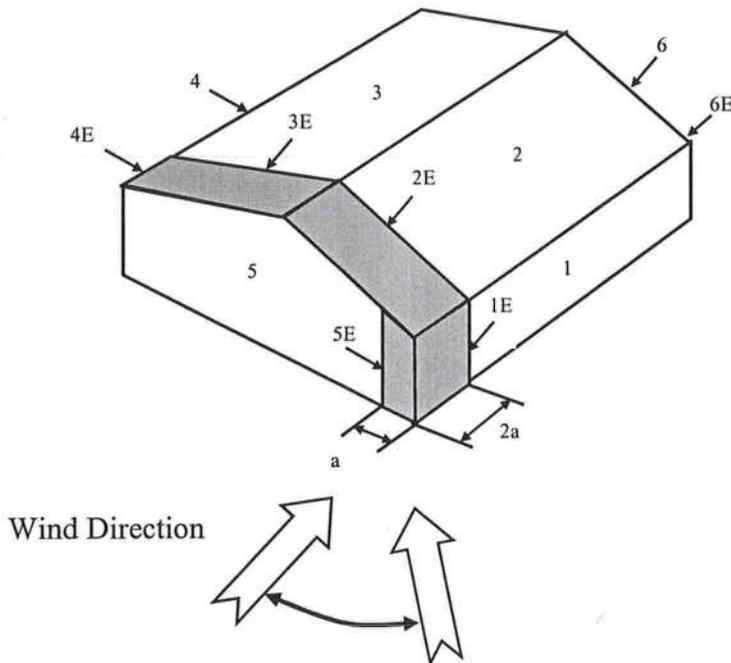


Figure 6-5 - External Pressure Coefficients, GCp
 Loads on Components and Cladding for Buildings w/ Ht <= 60 ft

Wind Load Design per ASCE 7-10

Partially Enclosed Buildings	0.55	-0.55
Enclosed Buildings	0.18	-0.18
Enclosed Buildings	0.18	-0.18