

DATE 08/24/2009

Columbia County Building Permit
This Permit Must Be Prominently Posted on Premises During Construction**PERMIT**
000028026

APPLICANT ADREA PITMAN PHONE 752-8653
ADDRESS P.O. BOX 815 LAKE CITY FL 32056
OWNER BRYAN ZECHER HOMES PHONE 752-6099
ADDRESS 1343 SW MANDIBA DRIVE LAKE CITY FL 32024
CONTRACTOR BRYAN ZECHER PHONE 752-8653
LOCATION OF PROPERTY 41S, TR ON TUSTENNUGGEE AVE, TR ON CUSTOM MADE CIRCLE,
TL MANDIBA DRIVE, 3RD LOT ON LEFT
TYPE DEVELOPMENT SFD, UTILITY ESTIMATED COST OF CONSTRUCTION 147800.00
HEATED FLOOR AREA 2956.00 TOTAL AREA 4468.00 HEIGHT STORIES 1
FOUNDATION CONC WALLS FRAMED ROOF PITCH 7/12 FLOOR SLAB
LAND USE & ZONING PRRD MAX. HEIGHT
Minimum Set Back Requirments: STREET-FRONT 30.00 REAR 25.00 SIDE 25.00
NO. EX.D.U. 0 FLOOD ZONE X DEVELOPMENT PERMIT NO.

PARCEL ID 18-5S-17-09280-154 SUBDIVISION OAKS OF LAKE CITY
LOT 54 BLOCK PHASE UNIT TOTAL ACRES 4.49

000001751 CBC054575
Culvert Permit No. Culvert Waiver Contractor's License Number Applicant/Owner/Contractor
CULVERT 08-716 BK HD Y
Driveway Connection Septic Tank Number LU & Zoning checked by Approved for Issuance New Resident

COMMENTS: MFE @ 75', ELEVATION CONFIRMATION LETTER REQUIRED AT SLABCheck # or Cash 6897**FOR BUILDING & ZONING DEPARTMENT ONLY**

(footer/Slab)

Temporary Power Foundation Monolithic
date/app. by date/app. by date/app. by
Under slab rough-in plumbing Slab Sheathing/Nailing
date/app. by date/app. by date/app. by
Framing Insulation
date/app. by date/app. by
Rough-in plumbing above slab and below wood floor Electrical rough-in
date/app. by date/app. by
Heat & Air Duct Peri. beam (Lintel) Pool
date/app. by date/app. by date/app. by
Permanent power C.O. Final Culvert
date/app. by date/app. by date/app. by
Pump pole Utility Pole M/H tie downs, blocking, electricity and plumbing
date/app. by date/app. by date/app. by
Reconnection RV Re-roof
date/app. by date/app. by date/app. by

BUILDING PERMIT FEE \$ 740.00 CERTIFICATION FEE \$ 22.34 SURCHARGE FEE \$ 22.34
MISC. FEES \$ 0.00 ZONING CERT. FEE \$ 50.00 FIRE FEE \$ 0.00 WASTE FEE \$
FLOOD DEVELOPMENT FEE \$ FLOOD ZONE FEE \$ 25.00 CULVERT FEE \$ 25.00 **TOTAL FEE** 884.68
INSPECTORS OFFICE CLERKS OFFICE

NOTICE: IN ADDITION TO THE REQUIREMENTS OF THIS PERMIT, THERE MAY BE ADDITIONAL RESTRICTIONS APPLICABLE TO THIS PROPERTY THAT MAY BE FOUND IN THE PUBLIC RECORDS OF THIS COUNTY. AND THERE MAY BE ADDITIONAL PERMITS REQUIRED FROM OTHER GOVERNMENTAL ENTITIES SUCH AS WATER MANAGEMENT DISTRICTS, STATE AGENCIES, OR FEDERAL AGENCIES.

"WARNING TO OWNER: YOUR FAILURE TO RECORD A NOTICE OF COMMENCEMENT MAY RESULT IN YOUR PAYING TWICE FOR IMPROVEMENTS TO YOUR PROPERTY. IF YOU INTEND TO OBTAIN FINANCING, CONSULT WITH YOUR LENDER OR AN ATTORNEY BEFORE RECORDING YOUR NOTICE OF COMMENCEMENT."

EVERY PERMIT ISSUED SHALL BECOME INVALID UNLESS THE WORK AUTHORIZED BY SUCH PERMIT IS COMMENCED WITHIN 180 DAYS AFTER ITS ISSUANCE, OR IF THE WORK AUTHORIZED BY SUCH PERMIT IS SUSPENDED OR ABANDONED FOR A PERIOD OF 180 DAYS AFTER THE TIME THE WORK IS COMMENCED. A VALID PERMIT RECIEVES AN APPROVED INSPECTION EVERY 180 DAYS. WORK SHALL BE CONSIDERED NOT SUSPENDED, ABANDONED OR INVALID WHEN THE PERMIT HAS RECIEVED AN APPROVED INSPECTION WITHIN 180 DAYS OT THE PREVIOUS INSPECTION.

The Issuance of this Permit Does Not Waive Compliance by Permittee with Deed Restrictions.

Columbia County Building Permit Application

For Office Use Only Application # 0811-20 Date Received 5/7/09 By JW Permit # 1751/28026
 Zoning Official BLK Date 12.11.08 Flood Zone X Land Use A-3 Zoning PRRD
 FEMA Map # N/A Elevation N/A MFE 75' plat River N/A Plans Examiner HD Date 11-10-08
 Comments Elevation Confirmation Letter Required at slab
☒ NOC ☒ EH ☐ Deed or PA ☐ Site Plan ☐ State Road Info ☐ Parent Parcel #
☐ Dev Permit # ☐ In Floodway ☐ Letter of Auth. from Contractor ☐ F W Comp. letter
 IMPACT FEES: EMS \$29.88 Fire \$780.31 Corr \$409.16 Road/Code \$1,046.00 / 210
 School \$1,500.00 = TOTAL \$3,063.67

Septic Permit No. _____ Fax 758-8920

Name Authorized Person Signing Permit Bryan Zacher / Becky Ogden Phone 752-8653

Address PO Box 815 Lake City FL 32056

Owners Name Bryan Zacher Homes Phone 752-6099

911 Address 1343 SW Mandara Drive Lake City, FL 32024

Contractors Name Bryan Zacher Construction Phone 752-8653

Address PO Box 815 Lake City FL 32056

Fee Simple Owner Name & Address _____

Bonding Co. Name & Address _____

Architect/Engineer Name & Address 13922 58th St N, Clearwater, FL 33760
Arthur Rubenberg Homes / Mark Disosway

Mortgage Lenders Name & Address Prosperity Bank

Circle the correct power company - FL Power & Light - Clay Elec. - Suwannee Valley Elec. - Progress Energy

Property ID Number 18-55-17-09280-154 Estimated Cost of Construction \$425,000

Subdivision Name Oaks of Lake City Lot 54 Block _____ Unit _____ Phase 1

Driving Directions From US Hwy 90, go South on Hwy 41 to CR 131 /

Tustnaugee Ave. Go 7 miles on CR 131 and turn Right onto

Custom Made Circle. At stop sign, turn Left - job site is 3rd lot on Left.
 Number of Existing Dwellings on Property 0

Construction of residential dwelling - "SFO" Total Acreage 4.49 Lot Size _____

Do you need a - Culvert Permit or Culvert Waiver or Have an Existing Drive Total Building Height 21

Actual Distance of Structure from Property Lines - Front 95' Side 50' Side 320' Rear 270'

Number of Stories 1 Heated Floor Area 2956 Total Floor Area 4468 Roof Pitch 7/12

Application is hereby made to obtain a permit to do work and installations as indicated. I certify that no work or installation has commenced prior to the issuance of a permit and that all work be performed to meet the standards of all laws regulating construction in this jurisdiction.

Columbia County Building Permit Application

TIME LIMITATIONS OF APPLICATION : An application for a permit for any proposed work shall be deemed to have been abandoned 180 days after the date of filing, unless such application has been pursued in good faith or a permit has been issued; except that the building official is authorized to grant one or more extensions of time for additional periods not exceeding 90 days each. The extension shall be requested in writing and justifiable cause demonstrated.

FLORIDA'S CONSTRUCTION LIEN LAW: Protect Yourself and Your Investment

According to Florida Law, those who work on your property or provide materials, and are not paid-in-full, have a right to enforce their claim for payment against your property. This claim is known as a construction lien. If your contractor fails to pay subcontractors or material suppliers or neglects to make other legally required payments, the people who are owed money may look to your property for payment, even if you have paid your contractor in full. This means if a lien is filed against your property, it could be sold against your will to pay for labor, materials or other services which your contractor may have failed to pay.

NOTICE OF RESPONSIBILITY TO BUILDING PERMITEE:

YOU ARE HEREBY NOTIFIED as the recipient of a building permit from Columbia County, Florida, you will be held responsible to the County for any damage to sidewalks and/or road curbs and gutters, concrete features and structures, together with damage to drainage facilities, removal of sod, major changes to lot grades that result in ponding of water, or other damage to roadway and other public infrastructure facilities caused by you or your contractor, subcontractors, agents or representatives in the construction and/or improvement of the building and lot for which this permit is issued. No certificate of occupancy will be issued until all corrective work to these public infrastructures and facilities has been corrected.

WARNING TO OWNER: YOUR FAILURE TO RECORD A NOTICE OF COMMENCEMENT MAY RESULT IN YOU PAYING TWICE FOR IMPROVEMENTS TO YOUR PROPERTY. A NOTICE OF COMMENCEMENT MUST BE RECORDED AND POSTED ON THE JOB SITE BEFORE THE FIRST INSPECTION. IF YOU INTEND TO OBTAIN FINANCING, CONSULT WITH YOUR LENDER OR ATTORNEY BEFORE RECORDING YOUR NOTICE OF COMMENCEMENT.

OWNERS CERTIFICATION: I hereby certify that all the foregoing information is accurate and all work will be done in compliance with all applicable laws and regulating construction and zoning. I further understand the above written responsibilities in Columbia County for obtaining this Building Permit.

Owners Signature

CONTRACTORS AFFIDAVIT: By my signature I understand and agree that I have informed and provided this written statement to the owner of all the above written responsibilities in Columbia County for obtaining this Building Permit.

Contractor's Signature (Permitee)

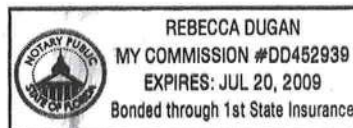
Contractor's License Number CBC054575
Columbia County
Competency Card Number _____

Affirmed under penalty of perjury to by the Contractor and subscribed before me this 7th day of November 2008.

Personally known ☒ or Produced Identification _____

Rebecca Dugan
State of Florida Notary Signature (For the Contractor)

SEAL:





Bryan Zecher Construction, Inc.
465 NW Orange Street • Lake City, FL 32055
(386) 752-8653
Fax: (386) 758-8920

Quality Materials – Quality Homes

August 7, 2009

Columbia County Building Department
135 NE Hernando Avenue
Lake City, FL 32055

To Whom It May Concern,

I am requesting a 90-day extension for the retrieval of Permit #0811-20 for The Oaks of Lake City Lot #54. Complications in securing financing for this home arose causing the delay in obtaining the above permit. The situation is being currently resolved.

Thank you for your assistance in this matter,

A handwritten signature in black ink, appearing to be "BZ" followed by a stylized flourish.

Bryan Zecher
CBC#054575



Bryan Zecher Construction, Inc.
465 NW Orange Street • Lake City, FL 32055
(386) 752-8653
Fax: (386) 758-8920

Quality Materials – Quality Homes

May 7, 2009

Columbia County Building Department
135 NE Hernando Avenue
Lake City, FL 32055

To Whom It May Concert,

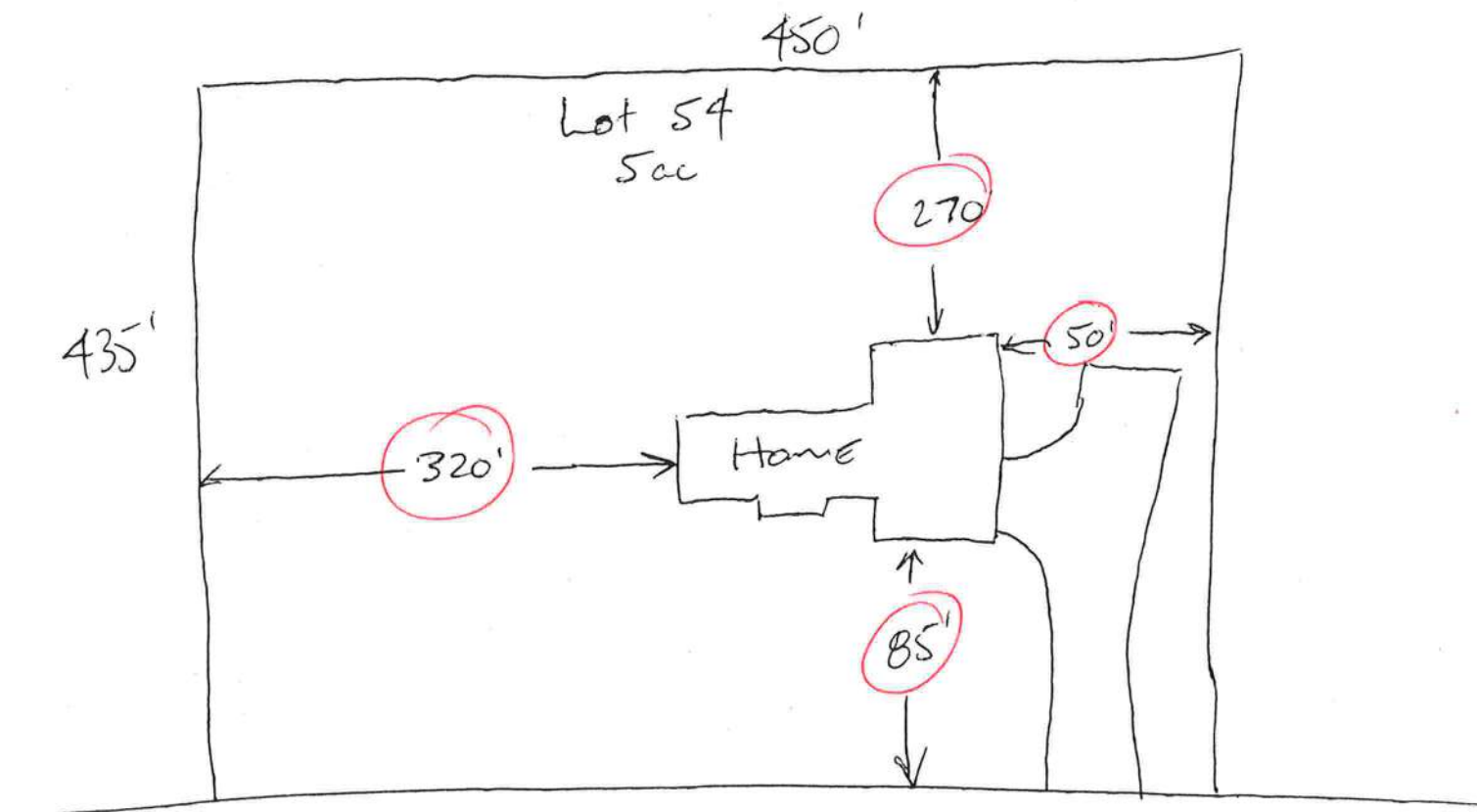
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A handwritten signature in black ink, appearing to be "BZ" with a stylized flourish.

Bryan Zecher
CBC#054575

SITE PLAN



1343 ← W Mandiba Dr

11-12-08; 12:05PM; ENVIRONMENTAL

ASU

13861864187

07 0

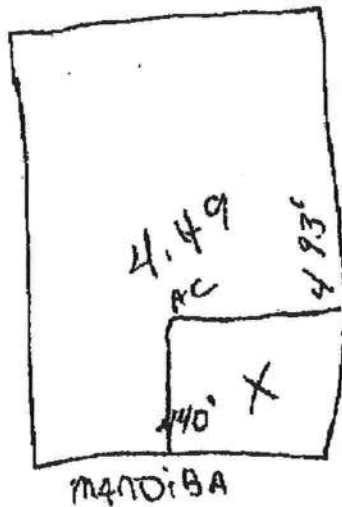
**STATE OF FLORIDA
DEPARTMENT OF HEALTH
APPLICATION FOR ONSITE SEWAGE DISPOSAL SYSTEM CONSTRUCTION PERMIT**

Permit Application Number 08-0716

-----PART II - SITEPLAN-----

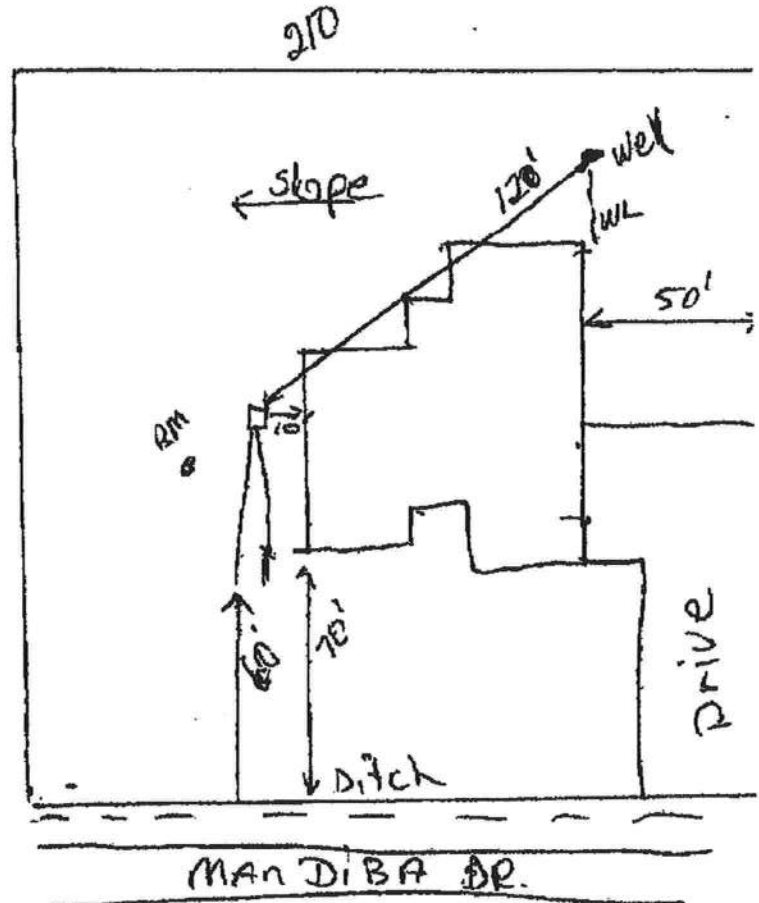
Scale: 1 inch = 50 feet.

1 acre of 4.49



VAC

210



Notes: _____

Site Plan submitted by: Rocky D. F.

MASTER CONTRACTOR

Plan Approved ☒

Not Approved ☐

Date 11-12-08

By Mr. S. D.

Columbia

County Health Department

ALL CHANGES MUST BE APPROVED BY THE COUNTY HEALTH DEPARTMENT

Is
Service

Phone: (386) 752-1
Fax: (386) 752-1

Lynch Well Drilling, Inc.

173 SW Young Place
Lake City, FL 32025
www.lynchwelldrilling.com

January 14, 2008

To Whom It May Concern:

As required by building code regulations for Columbia County in order that a building permit can be issued, the following well information is provided with regard to the Anna T. Lynch well:

Size of Pump Motor:	1.5 Horse Power
Size of Pressure Tank:	4 -Gallon Bladder Tank
Cycle Stop Valve Used:	No
Constant Pressure System:	Yes

Should you require any additional information, please contact us.

Sincerely,



Linda Newcomb
Lynch Well Drilling, Inc.

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Community Affairs
Residential Whole Building Performance Method A

Project Name:	810152ZecherBryanTheSavannah1021	Builder:	Bryan Zecher
Address:	Lot: , Sub: The Oaks, Plat:	Permitting Office:	
City, State:	Lake City, FL	Permit Number:	
Owner:	Spec House	Jurisdiction Number:	
Climate Zone:	North		

1. New construction or existing	New	12. Cooling systems	
2. Single family or multi-family	Single family	a. Central Unit	Cap: 33.0 kBtu/hr
3. Number of units, if multi-family	1		SEER: 13.00
4. Number of Bedrooms	4	b. Central Unit	Cap: 33.0 kBtu/hr
5. Is this a worst case?	Yes		SEER: 13.00
6. Conditioned floor area (ft²)	2956 ft²	c. N/A	
7. Glass type ¹ and area: (Label reqd. by 13-104.4.5 if not default)		13. Heating systems	
a. U-factor:	Description Area	a. Electric Heat Pump	Cap: 33.0 kBtu/hr
(or Single or Double DEFAULT) 7a. (Dble Default)	505.6 ft²		HSPF: 7.80
b. SHGC:		b. Electric Heat Pump	Cap: 33.0 kBtu/hr
(or Clear or Tint DEFAULT) 7b. (Clear)	505.6 ft²		HSPF: 7.80
8. Floor types		c. N/A	
a. Slab-On-Grade Edge Insulation	R=0.0, 308.0(p) ft	14. Hot water systems	
b. N/A		a. Electric Resistance	Cap: 60.0 gallons
c. N/A			EF: 0.93
9. Wall types		b. N/A	
a. Frame, Wood, Exterior	R=13.0, 2051.4 ft²	c. Conservation credits	
b. Frame, Wood, Adjacent	R=13.0, 291.0 ft²	(HR-Heat recovery, Solar	
c. Frame, Wood, Adjacent	R=13.0, 130.0 ft²	DHP-Dedicated heat pump)	
d. N/A		15. HVAC credits	
e. N/A		(CF-Ceiling fan, CV-Cross ventilation,	
10. Ceiling types		HF-Whole house fan,	
a. Under Attic	R=30.0, 3245.0 ft²	PT-Programmable Thermostat,	
b. N/A		MZ-C-Multizone cooling,	
c. N/A		MZ-H-Multizone heating)	
11. Ducts			
a. Sup: Unc. Ret: Unc. AH: Interior	Sup. R=6.0, 160.0 ft		
b. Sup: Unc. Ret: Unc. AH: Interior	Sup. R=6.0, 120.0 ft		

Glass/Floor Area: 0.17

Total as-built points: 38950

Total base points: 42114

PASS

I hereby certify that the plans and specifications covered by this calculation are in compliance with the Florida Energy Code.

PREPARED BY: [Signature]
DATE: 10/16/08 EVAN BEANSLEY

I hereby certify that this building, as designed, is in compliance with the Florida Energy Code.

OWNER/AGENT: [Signature]
DATE: 11/16/08

Review of the plans and specifications covered by this calculation indicates compliance with the Florida Energy Code. Before construction is completed this building will be inspected for compliance with Section 553.908 Florida Statutes.

BUILDING OFFICIAL: _____
DATE: _____



¹ Predominant glass type. For actual glass type and areas, see Summer & Winter Glass output on pages 2&4.

SUMMER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: Lot: , Sub: The Oaks, Plat: , Lake City, FL,

PERMIT #:

BASE				AS-BUILT							
GLASS TYPES .18 X Conditioned X BSPM = Points Floor Area				Type/SC	Overhang Ornt Len Hgt Area X SPM X SOF = Points						
.18	2956.0	20.04	10662.9	Double, Clear	S	1.5	8.0	36.0	35.87	0.92	1192.1
				Double, Clear	W	99.0	9.0	14.0	38.52	0.37	202.0
				Double, Clear	S	10.8	9.0	37.3	35.87	0.49	658.9
				Double, Clear	S	10.8	9.0	35.0	35.87	0.49	618.3
				Double, Clear	S	30.5	9.0	14.0	35.87	0.43	216.9
				Double, Clear	E	6.2	9.0	66.0	42.06	0.62	1724.7
				Double, Clear	S	14.3	9.0	22.0	35.87	0.47	368.6
				Double, Clear	E	17.8	9.0	11.0	42.06	0.39	181.9
				Double, Clear	S	1.5	4.0	8.0	35.87	0.74	212.6
				Double, Clear	S	1.5	7.0	25.0	35.87	0.89	802.1
				Double, Clear	W	0.0	0.0	25.0	38.52	1.00	963.1
				Double, Clear	W	0.0	0.0	8.0	38.52	1.00	308.2
				Double, Clear	W	0.0	0.0	18.3	38.52	1.00	705.0
				Double, Clear	N	1.5	5.0	6.0	19.20	0.92	105.5
				Double, Clear	N	9.5	9.0	72.0	19.20	0.70	970.7
				Double, Clear	N	12.5	10.0	28.0	19.20	0.68	363.3
				Double, Clear	N	12.5	3.0	12.0	19.20	0.59	136.7
				Double, Clear	N	1.5	8.0	20.0	19.20	0.97	371.4
				Double, Clear	E	0.0	0.0	16.0	42.06	1.00	673.0
				Double, Clear	E	0.0	0.0	32.0	42.06	1.00	1346.0
				As-Built Total:		505.6			12121.0		
WALL TYPES Area X BSPM = Points				Type	R-Value			Area X	SPM	=	Points
Adjacent	421.0	0.70	294.7	Frame, Wood, Exterior	13.0			2051.4	1.50		3077.1
Exterior	2051.4	1.70	3487.4	Frame, Wood, Adjacent	13.0			291.0	0.60		174.6
				Frame, Wood, Adjacent	13.0			130.0	0.60		78.0
Base Total:	2472.4		3782.1	As-Built Total:		2472.4			3329.7		
DOOR TYPES Area X BSPM = Points				Type				Area X	SPM	=	Points
Adjacent	21.3	1.60	34.1	Exterior Insulated				50.0	4.10		205.0
Exterior	100.0	4.10	410.0	Exterior Insulated				50.0	4.10		205.0
				Adjacent Insulated				21.3	1.60		34.1
Base Total:	121.3		444.1	As-Built Total:		121.3			444.1		
CEILING TYPES Area X BSPM = Points				Type	R-Value			Area X	SPM X SCM	=	Points
Under Attic	2956.0	1.73	5113.9	Under Attic	30.0			3245.0	1.73 X 1.00		5613.9
Base Total:	2956.0		5113.9	As-Built Total:		3245.0			5613.9		

SUMMER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: Lot: , Sub: The Oaks, Plat: , Lake City, FL,

PERMIT #:

BASE				AS-BUILT					
FLOOR TYPES	Area	X	BSPM = Points	Type	R-Value	Area	X SPM = Points		
Slab	308.0(p)		-37.0 -11396.0	Slab-On-Grade Edge Insulation	0.0	308.0(p)	-41.20 -12689.6		
Raised	0.0		0.00 0.0						
Base Total:			-11396.0	As-Built Total:		308.0	-12689.6		
INFILTRATION	Area	X	BSPM = Points			Area	X SPM = Points		
	2956.0		10.21 30180.8			2956.0	10.21 30180.8		
Summer Base Points: 38787.7				Summer As-Built Points: 38999.8					
Total Summer Points	X	System Multiplier	= Cooling Points	Total Component (System - Points)	X Cap Ratio	X Duct Multiplier (DM x DSM x AHU)	X System Multiplier	X Credit Multiplier	= Cooling Points
38787.7		0.4266	16546.8	(sys 1: Central Unit 33000 btuh ,SEER/EFF(13.0) Ducts:Unc(S),Unc(R),Int(AH),R6.0(INS) 39000 0.50 (1.09 x 1.147 x 0.91) 0.263 1.000 5824.5 (sys 2: Central Unit 33000 btuh ,SEER/EFF(13.0) Ducts:Unc(S),Unc(R),Int(AH),R6.0(INS) 39000 0.50 (1.09 x 1.147 x 0.91) 0.263 1.000 5824.5 38999.8 1.00 1.138 0.263 1.000 11648.9					

WINTER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: Lot: , Sub: The Oaks, Plat: , Lake City, FL,

PERMIT #:

BASE				AS-BUILT							
GLASS TYPES											
.18 X Conditioned X BWPM = Points Floor Area				Type/SC	Overhang Ornt Len Hgt		Area X WPM X WOF = Points				
.18	2956.0	12.74	6778.7	Double, Clear	S	1.5	8.0	36.0	13.30	1.04	498.4
				Double, Clear	W	99.0	9.0	14.0	20.73	1.24	359.2
				Double, Clear	S	10.8	9.0	37.3	13.30	3.05	1513.5
				Double, Clear	S	10.8	9.0	35.0	13.30	3.05	1420.2
				Double, Clear	S	30.5	9.0	14.0	13.30	3.66	681.4
				Double, Clear	E	6.2	9.0	66.0	18.79	1.19	1474.3
				Double, Clear	S	14.3	9.0	22.0	13.30	3.35	978.6
				Double, Clear	E	17.8	9.0	11.0	18.79	1.45	299.4
				Double, Clear	S	1.5	4.0	8.0	13.30	1.34	142.8
				Double, Clear	S	1.5	7.0	25.0	13.30	1.07	357.0
				Double, Clear	W	0.0	0.0	25.0	20.73	1.00	518.2
				Double, Clear	W	0.0	0.0	8.0	20.73	1.00	165.8
				Double, Clear	W	0.0	0.0	18.3	20.73	1.00	379.3
				Double, Clear	N	1.5	5.0	6.0	24.58	1.00	148.0
				Double, Clear	N	9.5	9.0	72.0	24.58	1.02	1803.1
				Double, Clear	N	12.5	10.0	28.0	24.58	1.02	702.6
				Double, Clear	N	12.5	3.0	12.0	24.58	1.03	303.0
				Double, Clear	N	1.5	8.0	20.0	24.58	1.00	492.0
				Double, Clear	E	0.0	0.0	16.0	18.79	1.00	300.7
				Double, Clear	E	0.0	0.0	32.0	18.79	1.00	601.4
				As-Built Total:		505.6			13138.9		
WALL TYPES Area X BWPM = Points				Type		R-Value		Area X WPM = Points			
Adjacent	421.0	3.60	1515.6	Frame, Wood, Exterior		13.0		2051.4		3.40 6974.8	
Exterior	2051.4	3.70	7590.2	Frame, Wood, Adjacent		13.0		291.0		3.30 960.3	
				Frame, Wood, Adjacent		13.0		130.0		3.30 429.0	
Base Total:	2472.4		9105.8	As-Built Total:		2472.4		8364.1			
DOOR TYPES Area X BWPM = Points				Type				Area X WPM = Points			
Adjacent	21.3	8.00	170.4	Exterior Insulated				50.0		8.40 420.0	
Exterior	100.0	8.40	840.0	Exterior Insulated				50.0		8.40 420.0	
				Adjacent Insulated				21.3		8.00 170.4	
Base Total:	121.3		1010.4	As-Built Total:		121.3		1010.4			
CEILING TYPES Area X BWPM = Points				Type		R-Value		Area X WPM X WCM = Points			
Under Attic	2956.0	2.05	6059.8	Under Attic		30.0		3245.0		2.05 X 1.00 6652.3	
Base Total:	2956.0		6059.8	As-Built Total:		3245.0		6652.3			

WINTER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: Lot: , Sub: The Oaks, Plat: , Lake City, FL,

PERMIT #:

BASE				AS-BUILT					
FLOOR TYPES Area X BWPM = Points				Type	R-Value	Area X WPM = Points			
Slab	308.0(p)	8.9	2741.2	Slab-On-Grade Edge Insulation	0.0	308.0(p)	18.80	5790.4	
Raised	0.0	0.00	0.0						
Base Total:			2741.2	As-Built Total:		308.0		5790.4	
INFILTRATION Area X BWPM = Points				Area X WPM = Points					
			2956.0	-0.59			2956.0	-0.59	-1744.0
Winter Base Points:			23951.8		Winter As-Built Points:			33211.9	
Total Winter Points	X	System Multiplier	= Heating Points	Total Component (System - Points)	X Cap Ratio (DM x DSM x AHU)	X Duct Multiplier	X System Multiplier	X Credit Multiplier	= Heating Points
				(sys 1: Electric Heat Pump 33000 btuh ,EFF(7.8) Ducts:Unc(S),Unc(R),Int(AH),R6.0					
				33211.9	0.500	(1.069 x 1.169 x 0.93)	0.437	1.000	8437.2
				(sys 2: Electric Heat Pump 33000 btuh ,EFF(7.8) Ducts:Unc(S),Unc(R),Int(AH),R6.0					
				33211.9	0.500	(1.069 x 1.169 x 0.93)	0.437	1.000	8437.2
23951.8		0.6274	15027.4	33211.9	1.00	1.162	0.437	1.000	16874.4

WATER HEATING & CODE COMPLIANCE STATUS

Residential Whole Building Performance Method A - Details

ADDRESS: Lot: , Sub: The Oaks, Plat: , Lake City, FL,

PERMIT #:

BASE				AS-BUILT					
WATER HEATING				Tank Volume	EF	Number of Bedrooms	X Tank X Ratio	Multiplier X Credit	= Total
Number of Bedrooms	X	Multiplier	= Total						
4		2635.00	10540.0	60.0	0.93	4	1.00	2606.67	1.00 10426.7
				As-Built Total:					10426.7

CODE COMPLIANCE STATUS

BASE					AS-BUILT				
Cooling Points	+	Heating Points	+	Hot Water Points = Total Points	Cooling Points	+	Heating Points	+	Hot Water Points = Total Points
16547		15027		10540 42114	11649		16874		10427 38950

PASS

Code Compliance Checklist

Residential Whole Building Performance Method A - Details

ADDRESS: Lot: , Sub: The Oaks, Plat: , Lake City, FL,

PERMIT #:

6A-21 INFILTRATION REDUCTION COMPLIANCE CHECKLIST

COMPONENTS	SECTION	REQUIREMENTS FOR EACH PRACTICE	CHECK
Exterior Windows & Doors	606.1.ABC.1.1	Maximum: .3 cfm/sq.ft. window area; .5 cfm/sq.ft. door area.	
Exterior & Adjacent Walls	606.1.ABC.1.2.1	Caulk, gasket, weatherstrip or seal between: windows/doors & frames, surrounding wall; foundation & wall sole or sill plate; joints between exterior wall panels at corners; utility penetrations; between wall panels & top/bottom plates; between walls and floor. EXCEPTION: Frame walls where a continuous infiltration barrier is installed that extends from, and is sealed to, the foundation to the top plate.	
Floors	606.1.ABC.1.2.2	Penetrations/openings >1/8" sealed unless backed by truss or joint members. EXCEPTION: Frame floors where a continuous infiltration barrier is installed that is sealed to the perimeter, penetrations and seams.	
Ceilings	606.1.ABC.1.2.3	Between walls & ceilings; penetrations of ceiling plane of top floor; around shafts, chases, soffits, chimneys, cabinets sealed to continuous air barrier; gaps in gyp board & top plate; attic access. EXCEPTION: Frame ceilings where a continuous infiltration barrier is installed that is sealed at the perimeter, at penetrations and seams.	
Recessed Lighting Fixtures	606.1.ABC.1.2.4	Type IC rated with no penetrations, sealed; or Type IC or non-IC rated, installed inside a sealed box with 1/2" clearance & 3" from insulation; or Type IC rated with < 2.0 cfm from conditioned space, tested.	
Multi-story Houses	606.1.ABC.1.2.5	Air barrier on perimeter of floor cavity between floors.	
Additional Infiltration reqts	606.1.ABC.1.3	Exhaust fans vented to outdoors, dampers; combustion space heaters comply with NFPA, have combustion air.	

6A-22 OTHER PRESCRIPTIVE MEASURES (must be met or exceeded by all residences.)

COMPONENTS	SECTION	REQUIREMENTS	CHECK
Water Heaters	612.1	Comply with efficiency requirements in Table 612.1.ABC.3.2. Switch or clearly marked circuit breaker (electric) or cutoff (gas) must be provided. External or built-in heat trap required.	
Swimming Pools & Spas	612.1	Spas & heated pools must have covers (except solar heated). Non-commercial pools must have a pump timer. Gas spa & pool heaters must have a minimum thermal efficiency of 78%.	
Shower heads	612.1	Water flow must be restricted to no more than 2.5 gallons per minute at 80 PSIG.	
Air Distribution Systems	610.1	All ducts, fittings, mechanical equipment and plenum chambers shall be mechanically attached, sealed, insulated, and installed in accordance with the criteria of Section 610. Ducts in unconditioned attics: R-6 min. insulation.	
HVAC Controls	607.1	Separate readily accessible manual or automatic thermostat for each system.	
Insulation	604.1, 602.1	Ceilings-Min. R-19. Common walls-Frame R-11 or CBS R-3 both sides. Common ceiling & floors R-11.	

ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

ESTIMATED ENERGY PERFORMANCE SCORE* = 84.5

The higher the score, the more efficient the home.

Spec House, Lot: , Sub: The Oaks, Plat: , Lake City, FL,

1. New construction or existing	New	12. Cooling systems	
2. Single family or multi-family	Single family	a. Central Unit	Cap: 33.0 kBtu/hr
3. Number of units, if multi-family	1		SEER: 13.00
4. Number of Bedrooms	4	b. Central Unit	Cap: 33.0 kBtu/hr
5. Is this a worst case?	Yes		SEER: 13.00
6. Conditioned floor area (ft ²)	2956 ft ²	c. N/A	
7. Glass type ¹ and area: (Label reqd. by 13-104.4.5 if not default)		13. Heating systems	
a. U-factor:	Description Area	a. Electric Heat Pump	Cap: 33.0 kBtu/hr
(or Single or Double DEFAULT)	7a. (Dble Default) 505.6 ft ²		HSPF: 7.80
b. SHGC:		b. Electric Heat Pump	Cap: 33.0 kBtu/hr
(or Clear or Tint DEFAULT)	7b. (Clear) 505.6 ft ²		HSPF: 7.80
8. Floor types		c. N/A	
a. Slab-On-Grade Edge Insulation	R=0.0, 308.0(p) ft	14. Hot water systems	
b. N/A		a. Electric Resistance	Cap: 60.0 gallons
c. N/A			EF: 0.93
9. Wall types		b. N/A	
a. Frame, Wood, Exterior	R=13.0, 2051.4 ft ²	c. Conservation credits	
b. Frame, Wood, Adjacent	R=13.0, 291.0 ft ²	(HR-Heat recovery, Solar	
c. Frame, Wood, Adjacent	R=13.0, 130.0 ft ²	DHP-Dedicated heat pump)	
d. N/A		15. HVAC credits	
e. N/A		(CF-Ceiling fan, CV-Cross ventilation,	
10. Ceiling types		HF-Whole house fan,	
a. Under Attic	R=30.0, 3245.0 ft ²	PT-Programmable Thermostat,	
b. N/A		MZ-C-Multizone cooling,	
c. N/A		MZ-H-Multizone heating)	
11. Ducts			
a. Sup: Unc. Ret: Unc. AH: Interior	Sup. R=6.0, 160.0 ft		
b. Sup: Unc. Ret: Unc. AH: Interior	Sup. R=6.0, 120.0 ft		

I certify that this home has complied with the Florida Energy Efficiency Code For Building Construction through the above energy saving features which will be installed (or exceeded) in this home before final inspection. Otherwise, a new EPL Display Card will be completed based on installed Code compliant features.

Builder Signature: _____

Date: 11/6/08

Address of New Home: 1343 SW Middle Rd

City/FL Zip: LC, FL 32084



*NOTE: The home's estimated energy performance score is only available through the FLA/RES computer program. This is not a Building Energy Rating. If your score is 80 or greater (or 86 for a US EPA/DOE EnergyStarTM designation), your home may qualify for energy efficiency mortgage (EEM) incentives if you obtain a Florida Energy Gauge Rating. Contact the Energy Gauge Hotline at 321/638-1492 or see the Energy Gauge web site at www.fsec.ucf.edu for information and a list of certified Raters. For information about Florida's Energy Efficiency Code For Building Construction, contact the Department of Community Affairs at 850/487-1824.

¹ Predominant glass type. For actual glass type and areas, see Summer & Winter Glass output on pages 2&4.
EnergyGauge® (Version: FLR2PB v4.1)

Columbia County Building Department Culvert Permit

Culvert Permit No.
000001751

DATE 08/24/2009 PARCEL ID # 18-5S-17-09280-154
APPLICANT ADREA PITMAN PHONE 752-8653
ADDRESS P.O. BOX 815 LAKE CITY FL 32056
OWNER BRYAN ZECHER PHONE 7528353
ADDRESS 1343 SW MANDIBA DR. LAKE CITY FL 32024
CONTRACTOR BRYAN ZECHER PHONE 752-8653
LOCATION OF PROPERTY 41S, TR ON TUSTENNUGGEE AVE., TR CUSTOM MADE CIRCLE, TL ON MANDIBA,
3RD LOT ON RIGHT

SUBDIVISION/LOT/BLOCK/PHASE/UNIT OAKS OF LAKE CITY 54

SIGNATURE

Adrea Pitman

INSTALLATION REQUIREMENTS



Culvert size will be 18 inches in diameter with a total length of 32 feet, leaving 24 feet of driving surface. Both ends will be mitered 4 foot with a 4 : 1 slope and poured with a 4 inch thick reinforced concrete slab.

INSTALLATION NOTE: Turnouts will be required as follows:

- a) a majority of the current and existing driveway turnouts are paved, or;
 - b) the driveway to be served will be paved or formed with concrete.
- Turnouts shall be concrete or paved a minimum of 12 feet wide or the width of the concrete or paved driveway, whichever is greater. The width shall conform to the current and existing paved or concreted turnouts.



Culvert installation shall conform to the approved site plan standards.



Department of Transportation Permit installation approved standards.



Other _____

ALL PROPER SAFETY REQUIREMENTS SHOULD BE FOLLOWED
DURING THE INSTALATION OF THE CULVERT.

135 NE Hernando Ave., Suite B-21
Lake City, FL 32055
Phone: 386-758-1008 Fax: 386-758-2160

Amount Paid 25.00



COLUMBIA COUNTY 9-1-1 ADDRESSING

P. O. Box 1787, Lake City, FL 32056-1787

PHONE: (386) 758-1125 • FAX: (386) 758-1365 • Email: ron_croft@columbiacountyfla.com

Addressing Maintenance

To maintain the Countywide Addressing Policy you must make application for a 9-1-1 Address at the time you apply for a building permit. The established standards for assigning and posting numbers to all principal buildings, dwellings, businesses and industries are contained in Columbia County Ordinance 2001-9. The addressing system is to enable Emergency Service Agencies to locate you in an emergency, and to assist the United States Postal Service and the public in the timely and efficient provision of services to residents and businesses of Columbia County.

DATE REQUESTED: 11/5/2008 DATE ISSUED: 11/6/2008

ENHANCED 9-1-1 ADDRESS:

1343 SW MANDIBA DR

LAKE CITY FL 32024

PROPERTY APPRAISER PARCEL NUMBER:

18-5S-17-09280-154

Remarks:

LOT 54 OAKS OF LAKE CITY PHS 1

Address Issued By:



Columbia County 9-1-1 Addressing / GIS Department

NOTICE: THIS ADDRESS WAS ISSUED BASED ON LOCATION INFORMATION RECEIVED FROM THE REQUESTER. SHOULD, AT A LATER DATE, THE LOCATION INFORMATION BE FOUND TO BE IN ERROR, THIS ADDRESS IS SUBJECT TO CHANGE.

New Construction Subterranean Termite Soil Treatment Record

OMB Approval No 2502-0525

(exp. 10/31/2005)

This form is completed by the licensed Pest Control Company

Public reporting burden for this collection of information is estimated to average 15 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. This information is mandatory and is required to obtain benefits. HUD may not collect this information, and you are not required to complete this form, unless it displays a currently valid OMB control number.

Section 24 CFR 200.926d(b)(3) requires that the sites for HUD insured structures must be free of termite hazards. This information collection requires the builder to certify that an authorized Pest Control company performed all required treatment for termites, and that the builder guarantees the treated area against infestation for one year. Builders, pest control companies, mortgage lenders, homebuyers, and HUD as a record of treatment for specific homes will use the information collected. The information is not considered confidential.

This report is submitted for informational purposes to the builder on proposed (new) construction cases when soil treatment for prevention of subterranean termite infestation is specified by the builder, architect, or required by the lender, architect, FHA or VA.

All contracts for services are between the Pest Control Operator and builder, unless stated otherwise.

Section 1: General information (Treating Company information)Company Name: Florida Pest Control & Co.Company Address: 536 SE Baya Dr City: Lake City State: FL Zip 32025Company Business License No. 3460Company Phone No. 386-752-1703

FHA/VA Case No. (if any) _____

Section 2: Builder Information

Company Name _____ Phone No. _____

Section 3: Property Information

Location of Structure (s) Treated (Street Address or Legal Description, City, State and Zip) _____

Type of Construction (More than one box may be checked) ☐ Slab ☐ Basement ☐ Crawl ☐ Other _____

Approximate Depth of Footing: Outside _____ Inside _____ Type of Fill _____

Section 4: Treatment Information

Date(s) of Treatment _____

Brand Name of Product(s) Used Bora-CareEPA Registration No. 64405-1Approximate Final Mix Solution % 1.0

Approximate Size of Treatment Area: Sq. ft. _____ Linear ft. _____ Linear ft. of Masonry Voids _____

Approximate Total Gallons of Solution Applied _____

Was treatment completed on exterior? ☐ Yes ☐ NoService Agreement Available? ☐ Yes ☐ No

Note: Some state laws require service agreements to be issued. This form does not preempt state law.

Attachments (List) _____

Comments _____

Name of Applicator(s) _____

Certification No. (if required by State law) _____

The applicator has used a product in accordance with the product label and state requirements. All treatment materials and methods used comply with state and federal regulations.

Authorized Signature _____

Date _____

Warning: HUD will prosecute false claims and statements. Conviction may result in criminal and/or civil penalties. 18 U.S.C. 1001, 1010, 1012; 31 U.S.C. 3729, 3802

Form NPCA-99-B may still be used

form HUD-NPCA-99-B (04/2003)

PRODUCT APPROVAL SPECIFICATION SHEET

Location: _____

Project Name: _____

As required by Florida Statute 553.842 and Florida Administrative Code 9B-72, please provide the information and the product approval number(s) on the building components listed below if they will be utilized on the construction project for which you are applying for a building permit on or after April 1, 2004. We recommend you contact your local product supplier should you not know the product approval number for any of the applicable listed products. More information about statewide product approval can be obtained at www.floridabuilding.org

Category/Subcategory	Manufacturer	Product Description	Approval Number(s)
A. EXTERIOR DOORS			
1. Swinging			
2. Sliding			
3. Sectional			
4. Roll up	N/A		
5. Automatic	N/A		
6. Other	—		
B. WINDOWS			
1. Single hung	Capital/Jordan		FL 675 / FL 1378-A
2. Horizontal Slider	" "		FL 685 / FL 1384-A
3. Casement	—		
4. Double Hung	—		
5. Fixed	C/J		FL 681 / FL 1385-A
6. Awning	—		
7. Pass-through	—		
8. Projected	—		
9. Mullion	—		
10. Wind Breaker	—		
11. Dual Action	—		
12. Other	—		
C. PANEL WALL			
1. Siding	Hardy Plank		FL 889-R1
2. Soffits	Ashley Aluminum		FL 4968
3. EIFS	—		
4. Storefronts	—		
5. Curtain walls	—		
6. Wall louver	—		
7. Glass block	—		
8. Membrane	—		
9. Greenhouse	—		
10. Other	—		
D. ROOFING PRODUCTS			
1. Asphalt Shingles	FLK / CertainTeed		FL 728-R1 / FL 250-R1
2. Underlayments	Felt		FL 1814
3. Roofing Fasteners	Nails		ROA 3378
4. Non-structural Metal Rf	—		
5. Built-Up Roofing	—		
6. Modified Bitumen	—		
7. Single Ply Roofing Sys	—		
8. Roofing Tiles	—		
9. Roofing Insulation	—		
10. Waterproofing	—		
11. Wood shingles /shakes	—		
12. Roofing Slate	—		

**COLUMBIA COUNTY BUILDING DEPARTMENT
RESIDENTIAL MINIMUM PLAN REQUIREMENTS AND CHECKLIST
FOR THE FLORIDA RESIDENTIAL BUILDING CODE 2004 with 2005 & 2006
Supplements and One (1) and Two (2) Family Dwellings**

ALL REQUIREMENTS ARE SUBJECT TO CHANGE

ALL BUILDING PLANS MUST INDICATE COMPLIANCE with the Current FLORIDA BUILDING CODES and the Current FLORIDA RESIDENTIAL CODE. ALL PLANS OR DRAWING SHALL PROVIDED CALCULATIONS AND DETAILS THAT HAVE THE SEAL AND SIGNATURE OF A CERTIFIED ARCHITECT OR ENGINEER REGISTERED IN THE STATE OF FLORIDA, OR ALTERNATE METHODOLOGIES, APPROVED BY THE STATE OF FLORIDA BUILDING COMMISSION FOR ONE- AND-TWO FAMILY DWELLINGS.

FOR DESIGN PURPOSES THE FOLLOWING BASIC WIND SPEEDS ARE PER FIGURE R301.2(4) of the Residential Code (Florida Wind speed map) SHALL BE USED.

WIND SPEED LINE SHALL BE DEFINED AS FOLLOWS: THE CENTERLINE OF INTERSTATE 75.

1. ALL BUILDINGS CONSTRUCTED EAST OF SAID LINE SHALL BE ----- 100 MPH
2. ALL BUILDINGS CONSTRUCTED WEST OF SAID LINE SHALL BE ----- 110 MPH
3. NO AREA IN COLUMBIA COUNTY IS IN A WIND BORNE DEBRIS REGION

GENERAL REQUIREMENTS:

- ✓ Two (2) complete sets of plans containing the following:
- All drawings must be clear, concise and drawn to scale, details that are not used shall be marked void
- ✓ Condition space (Sq. Ft.) and total (Sq. Ft.) under roof shall be shown on the plans.
- Designers name and signature shall be on all documents and a licensed architect or engineer, signature and official embossed seal shall be affixed to the plans and documents per FBC 106.1.

Site Plan information including:

- ✓ Dimensions of lot or parcel of land
- ✓ Dimensions of all building set backs
- ✓ Location of all other structures (include square footage of structures) on parcel, existing or proposed well and septic tank and all utility easements.
- ✓ Provide a full legal description of property.

Wind-load Engineering Summary, calculations and any details required:

- ✓ Plans or specifications must meet state compliance with FRC Chapter 3
- ✓ The following information must be shown as per section FRC
- ✓ Basic wind speed (3-second gust), miles per hour
- ✓ Wind importance factor and nature of occupancy
- ✓ Wind exposure – if more than one wind exposure is used, the wind exposure and applicable wind direction shall be indicated
- ✓ The applicable internal pressure coefficient, Components and Cladding The design wind pressure in terms of psf (kN/m²), to be used for the design of exterior component and cladding materials not speciffally designed by the registered design professional.

Elevations Drawing including:

- ✓ All side views of the structure
- ✓ Roof pitch
- ✓ Overhang dimensions and detail with attic ventilation
- ✓ Location, size and height above roof of chimneys
- ✓ Location and size of skylights with Florida Product Approval
- ✓ Number of stories
- e) Building height from the established grade to the roofs highest peak

Floor Plan including:

- Dimensioned area plan showing rooms, attached garage, breeze ways, covered porches, deck, balconies and raised floor surfaces located more than 30 inches above the floor or grade
 - All exterior and interior shear walls indicated
 - Shear wall opening shown (Windows, Doors and Garage doors)
 - Emergency escape and rescue opening in each bedroom (net clear opening shown)
 - Safety glazing of glass where needed
 - Fireplaces types (gas appliance) (vented or non-vented) or wood burning with Hearth (see chapter 10 of FRC)
 - Stairs with dimensions (width, tread and riser and total run) details of guardrails, Handrails (see FRC 311)
 - Plans must show and identify accessibility of bathroom (see FRC 322)
- All materials placed within opening or onto/into exterior shear walls, soffits or roofs shall have Florida product approval number and mfg. installation information submitted with the plans (see Florida product approval form)

Foundation Plans Per FRC 403:

- a) Location of all load-bearing walls footings indicated as standard, monolithic, dimensions, size and type of reinforcing.
- b) All posts and/or column footing including size and reinforcing
- c) Any special support required by soil analysis such as piling.
- d) Assumed load-bearing value of soil _____ (psf)
- e) Location of horizontal and vertical steel, for foundation or walls (include # size and type)

CONCRETE SLAB ON GRADE Per FRC R506

- Show Vapor retarder (6mil. Polyethylene with joints lapped 6 inches and sealed)
- Show control joints, synthetic fiber reinforcement or welded wire fabric reinforcement and Supports

PROTECTION AGAINST TERMITES Per FRC 320:

- Indicate on the foundation plan if soil treatment is used for subterranean termite prevention or submit other approved termite protection methods. Protection shall be provided by registered termiticides

Masonry Walls and Stem walls (load bearing & shear Walls) FRC Section R606

- Show all materials making up walls, wall height, and Block size, mortar type
 - Show all Lintel sizes, type, spans and tie-beam sizes and spacing of reinforcement
- Metal frame shear wall and roof systems shall be designed, signed and sealed by Florida Prof. Engineer or Architect**

Floor Framing System: First and/or second story

- Floor truss package shall including layout and details, signed and sealed by Florida Registered Professional Engineer
- Show conventional floor joist type, size, span, spacing and attachment to load bearing walls, stem walls and/or piers
- Girder type, size and spacing to load bearing walls, stem wall and/or piers
- Attachment of joist to girder
- Wind load requirements where applicable
- Show required under-floor crawl space
- Show required amount of ventilation opening for under-floor spaces
- Show required covering of ventilation opening.
- Show the required access opening to access to under-floor spaces
- Show the sub-floor structural panel sheathing type, thickness and fastener schedule on the edges & intermediate of the areas structural panel sheathing
- Show Draft stopping, Fire caulking and Fire blocking
- Show fireproofing requirements for garages attached to living spaces, per FRC section R309
- Provide live and dead load rating of floor framing systems (psf).

WOOD WALL FRAMING CONSTRUCTION FRC CHAPTER 6

- Stud type, grade, size, wall height and oc spacing for all load bearing or shear walls.
- Fastener schedule for structural members per table R602.3 (1) are to be shown.
- Show wood structural panel's sheathing attachment to studs, joist, trusses, rafters and structural members, showing fastener schedule attachment on the edges & intermediate of the areas structural panel sheathing
- Show all required connectors with a max uplift rating and required number of connectors and oc spacing for continuous connection of structural walls to foundation and roof trusses or rafter systems.
- Show sizes, type, span lengths and required number of support jack studs, king studs for shear wall opening and girder or header per FRC Table R502.5 (1)
- Indicate where pressure treated wood will be placed.
- Show all wall structural panel sheathing, grade, thickness and show fastener schedule for structural panel sheathing edges & intermediate areas
- A detail showing gable truss bracing, wall balloon framing details or/ and wall hinge bracing detail

ROOF SYSTEMS:

- Truss design drawing shall meet section FRC R802.10 Wood trusses. Include a layout and truss details and be signed and sealed by Fl. Pro. Eng.
- Show types of connector's assemblies' and resistance uplift rating for all trusses and rafters
- Show gable ends with rake beams showing reinforcement or gable truss and wall bracing details
- Provide dead load rating of trusses

Conventional Roof Framing Layout Per FRC 802:

- Rafter and ridge beams sizes, span, species and spacing
- Connectors to wall assemblies' include assemblies' resistance to uplift rating.
- Valley framing and support details
- Provide dead load rating of rafter system.

ROOF SHEATHING FRC Table R602,3(2) FRC 803

- Include all materials which will make up the roof decking, identification of structural panel sheathing, grade, thickness and show fastener schedule for structural panel sheathing on the edges & intermediate areas

ROOF ASSEMBLIES FRC Chapter 9

- Include all materials which will make up the roof assemblies covering; with Florida Product Approval numbers for each component of the roof assemblies covering.

FCB Chapter 13 Florida Energy Efficiency Code for Building Construction

- Residential construction shall comply with this code by using the following compliance methods in the FBC Subchapter 13-6, Residential buildings compliance methods. Two of the required forms are to be submitted, showing dimensions condition area equal to the total condition living space area
- Show the insulation R value for the following areas of the structure: Attic space, Exterior wall cavity and Crawl space (if applicable)

HVAC information shown

- Manual J sizing equipment or equivalent computation
- Exhaust fans locations in bathrooms

Plumbing Fixture layout shown

- All fixtures waste water lines shall be shown on the foundation plan

Electrical layout shown including:

- Switches, outlets/receptacles, lighting and all required GFCI outlets identified
- Ceiling fans
- Smoke detectors
- Service panel, sub-panel, location(s) and total ampere ratings

- On the electrical plans identify the electrical service overcurrent protection device for the main electrical service. This device shall be installed on the exterior of structures to serve as a disconnecting means for the utility company electrical service. Conductors used from the exterior disconnecting means to a panel or sub panel shall have four-wire conductors, of which one conductor shall be used as an equipment ground. Indicate if the utility company service entrance cable will be of the overhead or underground type.
- Appliances and HVAC equipment and disconnects
- Arc Fault Circuits (AFCI) in bedrooms
- Notarized Disclosure Statement for Owner Builders
- Notice of Commencement Recorded (in the Columbia County Clerk Office) Notice Of Commencement is required to be filed with the building department Before Any Inspections Will Be Done.

Private Potable Water

- Size of pump motor
 - Size of pressure tank
 - Cycle stop valve if used
- 1 1/2 hrs

THE FOLLOWING ITEMS MUST BE SUBMITTED WITH BUILDING PLANS

- Building Permit Application: A current Building Permit Application form is to be completed and submitted for all residential projects.
- Parcel Number: The parcel number (Tax ID number) from the Property Appraiser (386) 758-1084 is required. A copy of property deed is also requested.
- Environmental Health Permit or Sewer Tap Approval: A copy of the Environmental Health permit, existing septic approval or sewer tap approval is required before a building permit can be issued. (386) 758-1058 (Toilet facilities shall be provided for construction workers)
- City Approval: If the project is to be located within the city limits of the Town of Fort White, prior approval is required. The Town of Fort White approval letter is required to be submitted by the owner or contractor to this office when applying for a Building Permit. (386) 497-2321
- Flood Information: All projects within the Floodway of the Suwannee or Santa Fe Rivers shall require permitting through the Suwannee River Water Management District, before submitting application to this office. Any project located within a flood zone where the base flood elevation (100 year flood) has been established shall meet the requirements of Section 8.8 of the Columbia County Land Development Regulations. Any project located within a flood zone where the base flood elevation has not been established (Zone A) shall meet the requirements of Section 8.7 of the Columbia County Land Development Regulations. **CERTIFIED FINISHED FLOOR ELEVATIONS WILL BE REQUIRED ON ANY PROJECT WHERE THE BASE FLOOD ELEVATION (100 YEAR FLOOD) HAS BEEN ESTABLISHED.** A development permit will also be required. The permit cost is \$50.00.
- Driveway Connection: If the property does not have an existing access to a public road, then an application for a culvert permit (\$25.00) must be made. If the applicant feels that a culvert is not needed, they may apply for a culvert waiver (\$50.00). All culvert waivers are sent to the Columbia County Public Works Department for approval or denial.
- 911 Address: If the project is located in an area where the 911 address has been issued, then the proper Paper work from the 911 Addressing Departments must be submitted. (386) 758-1125

ALL REQUIRED INFORMATION IS TO BE SUBMITTED FOR REVIEW. NOTIFICATION WILL BE GIVEN WHEN THE APPLICATION AND PLANS ARE APPROVED AND READY TO PERMIT.

Residential System Sizing Calculation

Summary

Spec House

Project Title:

Class 3 Rating

Registration No. 0

Climate: North

Lake City, FL

810152ZecherBryanTheSavannah1021

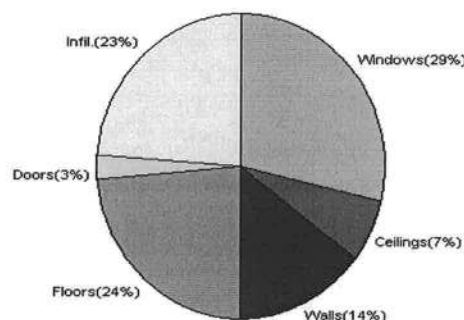
10/16/2008

Location for weather data: Gainesville - Defaults: Latitude(29) Altitude(152 ft.) Temp Range(M)					
Humidity data: Interior RH (50%) Outdoor wet bulb (77F) Humidity difference(54gr.)					
Winter design temperature	33	F	Summer design temperature	92	F
Winter setpoint	70	F	Summer setpoint	75	F
Winter temperature difference	37	F	Summer temperature difference	17	F
Total heating load calculation	56408	Btuh	Total cooling load calculation	51128	Btuh
Submitted heating capacity	% of calc	Btuh	Submitted cooling capacity	% of calc	Btuh
Total (Electric Heat Pump)	117.0	66000	Sensible (SHR = 0.75)	114.0	49500
Heat Pump + Auxiliary(0.0kW)	117.0	66000	Latent	213.7	16500
			Total (Electric Heat Pump)	129.1	66000

WINTER CALCULATIONS

Winter Heating Load (for 2956 sqft)

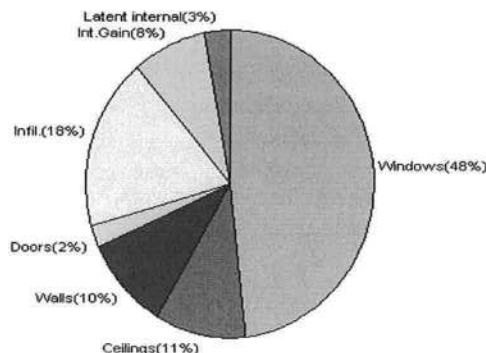
Load component			Load	
Window total	506	sqft	16275	Btuh
Wall total	2472	sqft	8119	Btuh
Door total	121	sqft	1571	Btuh
Ceiling total	3245	sqft	3824	Btuh
Floor total	308	sqft	13447	Btuh
Infiltration	325	cfm	13171	Btuh
Duct loss			0	Btuh
Subtotal			56408	Btuh
Ventilation	0	cfm	0	Btuh
TOTAL HEAT LOSS			56408	Btuh



SUMMER CALCULATIONS

Summer Cooling Load (for 2956 sqft)

Load component			Load	
Window total	506	sqft	24572	Btuh
Wall total	2472	sqft	4914	Btuh
Door total	121	sqft	1189	Btuh
Ceiling total	3245	sqft	5374	Btuh
Floor total			0	Btuh
Infiltration	168	cfm	3117	Btuh
Internal gain			4240	Btuh
Duct gain			0	Btuh
Sens. Ventilation	0	cfm	0	Btuh
Total sensible gain			43407	Btuh
Latent gain(ducts)			0	Btuh
Latent gain(infiltration)			6122	Btuh
Latent gain(ventilation)			0	Btuh
Latent gain(internal/occupants/other)			1600	Btuh
Total latent gain			7722	Btuh
TOTAL HEAT GAIN			51128	Btuh



For Florida residences only

EnergyGauge® System Sizing

PREPARED BY:

DATE: 10/16/08 ERAN BERNSTEIN

System Sizing Calculations - Winter

Residential Load - Whole House Component Details

Spec House

Project Title:

Class 3 Rating

Lake City, FL

810152ZecherBryanTheSavannah1021

Registration No. 0

Climate: North

Reference City: Gainesville (Defaults) Winter Temperature Difference: 37.0 F

10/16/2008

This calculation is for Worst Case. The house has been rotated 315 degrees.

Component Loads for Whole House

Window	Panes/SHGC/Frame/U	Orientation	Area(sqft)	X	HTM=	Load
1	2, Clear, Metal, 0.87	NW	36.0		32.2	1159 Btuh
2	2, Clear, Metal, 0.87	NE	14.0		32.2	451 Btuh
3	2, Clear, Metal, 0.87	NW	37.3		32.2	1201 Btuh
4	2, Clear, Metal, 0.87	NW	35.0		32.2	1127 Btuh
5	2, Clear, Metal, 0.87	NW	14.0		32.2	451 Btuh
6	2, Clear, Metal, 0.87	SW	66.0		32.2	2125 Btuh
7	2, Clear, Metal, 0.87	NW	22.0		32.2	708 Btuh
8	2, Clear, Metal, 0.87	SW	11.0		32.2	354 Btuh
9	2, Clear, Metal, 0.87	NW	8.0		32.2	258 Btuh
10	2, Clear, Metal, 0.87	NW	25.0		32.2	805 Btuh
11	2, Clear, Metal, 0.87	NE	25.0		32.2	805 Btuh
12	2, Clear, Metal, 0.87	NE	8.0		32.2	258 Btuh
13	2, Clear, Metal, 0.87	NE	18.3		32.2	589 Btuh
14	2, Clear, Metal, 0.87	SE	6.0		32.2	193 Btuh
15	2, Clear, Metal, 0.87	SE	72.0		32.2	2318 Btuh
16	2, Clear, Metal, 0.87	SE	28.0		32.2	901 Btuh
17	2, Clear, Metal, 0.87	SE	12.0		32.2	386 Btuh
18	2, Clear, Metal, 0.87	SE	20.0		32.2	644 Btuh
19	2, Clear, Metal, 0.87	SW	16.0		32.2	515 Btuh
20	2, Clear, Metal, 0.87	SW	32.0		32.2	1030 Btuh
Window Total			506(sqft)			16275 Btuh
Walls	Type	R-Value	Area	X	HTM=	Load
1	Frame - Wood - Ext(0.09)	13.0	2051		3.3	6737 Btuh
2	Frame - Wood - Adj(0.09)	13.0	291		3.3	956 Btuh
3	Frame - Wood - Adj(0.09)	13.0	130		3.3	427 Btuh
Wall Total			2472			8119 Btuh
Doors	Type		Area	X	HTM=	Load
1	Insulated - Adjacent		21		12.9	276 Btuh
2	Insulated - Exterior		50		12.9	648 Btuh
3	Insulated - Exterior		50		12.9	648 Btuh
Door Total			121			1571 Btuh
Ceilings	Type/Color/Surface	R-Value	Area	X	HTM=	Load
1	Vented Attic/D/Shin)	30.0	3245		1.2	3824 Btuh
Ceiling Total			3245			3824 Btuh
Floors	Type	R-Value	Size	X	HTM=	Load
1	Slab On Grade	0	308.0 ft(p)		43.7	13447 Btuh
Floor Total			308			13447 Btuh
Zone Envelope Subtotal:						43237 Btuh
Infiltration	Type	ACH	Zone Volume		CFM=	
	Natural	0.66	29560		325.2	13171 Btuh

Manual J Winter Calculations

Residential Load - Component Details (continued)

Spec House
Lake City, FL

Project Title:
810152ZecherBryanTheSavannah1021

Class 3 Rating
Registration No. 0
Climate: North

10/16/2008

Ductload	Partially sealed, R6.0, Supply(Attic), Return(Attic) (DLM of 0.00)	0 Btuh
Zone #1	Sensible Zone Subtotal	56408 Btuh

WHOLE HOUSE TOTALS

	Subtotal Sensible Ventilation Sensible Total Btuh Loss	56408 Btuh 0 Btuh 56408 Btuh
--	--	------------------------------------

Key: Window types (SHGC - Shading coefficient of glass as SHGC numerical value or as clear or tint)
(Frame types - metal, wood or insulated metal)
(U - Window U-Factor or 'DEF' for default)
(HTM - ManualJ Heat Transfer Multiplier)

Key: Floor size (perimeter(p) for slab-on-grade or area for all other floor types)



For Florida residences only

System Sizing Calculations - Winter

Residential Load - Room by Room Component Details

Spec House
Lake City, FL

Project Title:
810152ZecherBryanTheSavannah1021

Class 3 Rating
Registration No. 0
Climate: North

Reference City: Gainesville (Defaults) Winter Temperature Difference: 37.0 F
This calculation is for Worst Case. The house has been rotated 315 degrees.

10/16/2008

Component Loads for Zone #1: Main					
Window	Panes/SHGC/Frame/U	Orientation	Area(sqft) X	HTM=	Load
1	2, Clear, Metal, 0.87	NW	36.0	32.2	1159 Btuh
2	2, Clear, Metal, 0.87	NE	14.0	32.2	451 Btuh
3	2, Clear, Metal, 0.87	NW	37.3	32.2	1201 Btuh
4	2, Clear, Metal, 0.87	NW	35.0	32.2	1127 Btuh
5	2, Clear, Metal, 0.87	NW	14.0	32.2	451 Btuh
6	2, Clear, Metal, 0.87	SW	66.0	32.2	2125 Btuh
7	2, Clear, Metal, 0.87	NW	22.0	32.2	708 Btuh
8	2, Clear, Metal, 0.87	SW	11.0	32.2	354 Btuh
9	2, Clear, Metal, 0.87	NW	8.0	32.2	258 Btuh
10	2, Clear, Metal, 0.87	NW	25.0	32.2	805 Btuh
11	2, Clear, Metal, 0.87	NE	25.0	32.2	805 Btuh
12	2, Clear, Metal, 0.87	NE	8.0	32.2	258 Btuh
13	2, Clear, Metal, 0.87	NE	18.3	32.2	589 Btuh
14	2, Clear, Metal, 0.87	SE	6.0	32.2	193 Btuh
15	2, Clear, Metal, 0.87	SE	72.0	32.2	2318 Btuh
16	2, Clear, Metal, 0.87	SE	28.0	32.2	901 Btuh
17	2, Clear, Metal, 0.87	SE	12.0	32.2	386 Btuh
18	2, Clear, Metal, 0.87	SE	20.0	32.2	644 Btuh
19	2, Clear, Metal, 0.87	SW	16.0	32.2	515 Btuh
20	2, Clear, Metal, 0.87	SW	32.0	32.2	1030 Btuh
Window Total			506(sqft)		16275 Btuh
Walls	Type	R-Value	Area X	HTM=	Load
1	Frame - Wood - Ext(0.09)	13.0	2051	3.3	6737 Btuh
2	Frame - Wood - Adj(0.09)	13.0	291	3.3	956 Btuh
3	Frame - Wood - Adj(0.09)	13.0	130	3.3	427 Btuh
Wall Total			2472		8119 Btuh
Doors	Type		Area X	HTM=	Load
1	Insulated - Adjacent		21	12.9	276 Btuh
2	Insulated - Exterior		50	12.9	648 Btuh
3	Insulated - Exterior		50	12.9	648 Btuh
Door Total			121		1571 Btuh
Ceilings	Type/Color/Surface	R-Value	Area X	HTM=	Load
1	Vented Attic/D/Shin)	30.0	3245	1.2	3824 Btuh
Ceiling Total			3245		3824 Btuh
Floors	Type	R-Value	Size X	HTM=	Load
1	Slab On Grade	0	308.0 ft(p)	43.7	13447 Btuh
Floor Total			308		13447 Btuh
Zone Envelope Subtotal:					43237 Btuh
Infiltration	Type	ACH X	Zone Volume	CFM=	
	Natural	0.66	29560	325.2	13171 Btuh

Manual J Winter Calculations

Residential Load - Component Details (continued)

Spec House
Lake City, FL

Project Title:
810152ZecherBryanTheSavannah1021

Class 3 Rating
Registration No. 0
Climate: North

10/16/2008

Ductload	Partially sealed, R6.0, Supply(Attic), Return(Attic) (DLM of 0.00)	0 Btuh
Zone #1	Sensible Zone Subtotal	56408 Btuh

WHOLE HOUSE TOTALS

	Subtotal Sensible Ventilation Sensible Total Btuh Loss	56408 Btuh 0 Btuh 56408 Btuh
--	--	------------------------------------

Key: Window types (SHGC - Shading coefficient of glass as SHGC numerical value or as clear or tint)
(Frame types - metal, wood or insulated metal)
(U - Window U-Factor or 'DEF' for default)
(HTM - ManualJ Heat Transfer Multiplier)

Key: Floor size (perimeter(p) for slab-on-grade or area for all other floor types)



For Florida residences only

System Sizing Calculations - Summer

Residential Load - Whole House Component Details

Spec House

Project Title:

Class 3 Rating

Lake City, FL

810152ZecherBryanTheSavannah1021

Registration No. 0

Climate: North

Reference City: Gainesville (Defaults) Summer Temperature Difference: 17.0 F

10/16/2008

This calculation is for Worst Case. The house has been rotated 315 degrees.

Component Loads for Whole House

Window	Type*		Overhang		Window Area(sqft)			HTM		Load	
	Pn/SHGC/U/InSh/ExSh/IS	Ornt	Len	Hgt	Gross	Shaded	Unshaded	Shaded	Unshaded		
1	2, Clear, 0.87, None,N,N	NW	1.5ft	8ft.	36.0	0.0	36.0	29	60	2161	Btuh
2	2, Clear, 0.87, None,N,N	NE	99ft.	9ft.	14.0	0.0	14.0	29	60	841	Btuh
3	2, Clear, 0.87, None,N,N	NW	10.8	9ft.	37.3	0.0	37.3	29	60	2239	Btuh
4	2, Clear, 0.87, None,N,N	NW	10.8	9ft.	35.0	0.0	35.0	29	60	2101	Btuh
5	2, Clear, 0.87, None,N,N	NW	30.5f	9ft.	14.0	0.0	14.0	29	60	841	Btuh
6	2, Clear, 0.87, None,N,N	SW	6.16	9ft.	66.0	66.0	0.0	29	63	1911	Btuh
7	2, Clear, 0.87, None,N,N	NW	14.3	9ft.	22.0	0.0	22.0	29	60	1321	Btuh
8	2, Clear, 0.87, None,N,N	SW	17.8	9ft.	11.0	11.0	0.0	29	63	319	Btuh
9	2, Clear, 0.87, None,N,N	NW	1.5ft	4ft.	8.0	0.0	8.0	29	60	480	Btuh
10	2, Clear, 0.87, None,N,N	NW	1.5ft	7ft.	25.0	0.0	25.0	29	60	1501	Btuh
11	2, Clear, 0.87, None,N,N	NE	0ft.	0ft.	25.0	0.0	25.0	29	60	1501	Btuh
12	2, Clear, 0.87, None,N,N	NE	0ft.	0ft.	8.0	0.0	8.0	29	60	480	Btuh
13	2, Clear, 0.87, None,N,N	NE	0ft.	0ft.	18.3	0.0	18.3	29	60	1099	Btuh
14	2, Clear, 0.87, None,N,N	SE	1.5ft	5ft.	6.0	1.0	5.0	29	63	340	Btuh
15	2, Clear, 0.87, None,N,N	SE	9.5ft	9ft.	72.0	72.0	0.0	29	63	2085	Btuh
16	2, Clear, 0.87, None,N,N	SE	12.5f	10ft.	28.0	28.0	0.0	29	63	811	Btuh
17	2, Clear, 0.87, None,N,N	SE	12.5f	3ft.	12.0	12.0	0.0	29	63	348	Btuh
18	2, Clear, 0.87, None,N,N	SE	1.5ft	8ft.	20.0	1.7	18.3	29	63	1192	Btuh
19	2, Clear, 0.87, None,N,N	SW	0ft.	0ft.	16.0	0.0	16.0	29	63	1001	Btuh
20	2, Clear, 0.87, None,N,N	SW	0ft.	0ft.	32.0	0.0	32.0	29	63	2001	Btuh
Window Total					506 (sqft)					24572 Btuh	
Walls	Type	R-Value/U-Value			Area(sqft)		HTM		Load		
1	Frame - Wood - Ext	13.0/0.09			2051.4		2.1		4279 Btuh		
2	Frame - Wood - Adj	13.0/0.09			291.0		1.5		439 Btuh		
3	Frame - Wood - Adj	13.0/0.09			130.0		1.5		196 Btuh		
Wall Total					2472 (sqft)				4914 Btuh		
Doors	Type				Area (sqft)		HTM		Load		
1	Insulated - Adjacent				21.3		9.8		209 Btuh		
2	Insulated - Exterior				50.0		9.8		490 Btuh		
3	Insulated - Exterior				50.0		9.8		490 Btuh		
Door Total					121 (sqft)				1189 Btuh		
Ceilings	Type/Color/Surface	R-Value			Area(sqft)		HTM		Load		
1	Vented Attic/DarkShingle	30.0			3245.0		1.7		5374 Btuh		
Ceiling Total					3245 (sqft)				5374 Btuh		
Floors	Type	R-Value			Size		HTM		Load		
1	Slab On Grade	0.0			308 (ft(p))		0.0		0 Btuh		
Floor Total					308.0 (sqft)				0 Btuh		
Zone Envelope Subtotal:									36049 Btuh		

Manual J Summer Calculations

Residential Load - Component Details (continued)

Spec House
Lake City, FL

Project Title:
810152ZecherBryanTheSavannah1021

Class 3 Rating
Registration No. 0
Climate: North

10/16/2008

Infiltration	Type SensibleNatural	ACH 0.34	Volume(cuft) 29560	CFM= 167.5	Load 3117 Btuh
Internal gain		Occupants 8	Btuh/occupant X 230 +	Appliance 2400	Load 4240 Btuh
Duct load	Partially sealed, R6.0, Supply(Attic), Return(Attic) DGM = 0.00				0.0 Btuh
	Sensible Zone Load				43407 Btuh

Manual J Summer Calculations

Residential Load - Component Details (continued)

Spec House
Lake City, FL

Project Title:
810152ZecherBryanTheSavannah1021

Class 3 Rating
Registration No. 0
Climate: North

10/16/2008

WHOLE HOUSE TOTALS

Whole House Totals for Cooling	Sensible Envelope Load All Zones	43407 Btuh
	Sensible Duct Load	0 Btuh
	Total Sensible Zone Loads	43407 Btuh
	Sensible ventilation	0 Btuh
	Blower	0 Btuh
	Total sensible gain	43407 Btuh
	Latent infiltration gain (for 54 gr. humidity difference)	6122 Btuh
	Latent ventilation gain	0 Btuh
	Latent duct gain	0 Btuh
	Latent occupant gain (8 people @ 200 Btuh per person)	1600 Btuh
	Latent other gain	0 Btuh
	Latent total gain	7722 Btuh
	TOTAL GAIN	51128 Btuh

*Key: Window types (Pn - Number of panes of glass)
(SHGC - Shading coefficient of glass as SHGC numerical value or as clear or tint)
(U - Window U-Factor or 'DEF' for default)
(InSh - Interior shading device: none(N), Blinds(B), Draperies(D) or Roller Shades(R))
(ExSh - Exterior shading device: none(N) or numerical value)
(BS - Insect screen: none(N), Full(F) or Half(H))
(Ornt - compass orientation)



For Florida residences only

System Sizing Calculations - Summer

Residential Load - Room by Room Component Details

Spec House

Project Title:

Class 3 Rating

Lake City, FL

810152ZecherBryanTheSavannah1021

Registration No. 0

Climate: North

Reference City: Gainesville (Defaults) Summer Temperature Difference: 17.0 F

10/16/2008

This calculation is for Worst Case. The house has been rotated 315 degrees.

Component Loads for Zone #1: Main

Window	Type*		Overhang		Window Area(sqft)			HTM		Load	
	Pn/SHGC/U/InSh/ExSh/I/S	Ornt	Len	Hgt	Gross	Shaded	Unshaded	Shaded	Unshaded		
1	2, Clear, 0.87, None,N,N	NW	1.5ft	8ft.	36.0	0.0	36.0	29	60	2161	Btuh
2	2, Clear, 0.87, None,N,N	NE	99ft.	9ft.	14.0	0.0	14.0	29	60	841	Btuh
3	2, Clear, 0.87, None,N,N	NW	10.8	9ft.	37.3	0.0	37.3	29	60	2239	Btuh
4	2, Clear, 0.87, None,N,N	NW	10.8	9ft.	35.0	0.0	35.0	29	60	2101	Btuh
5	2, Clear, 0.87, None,N,N	NW	30.5f	9ft.	14.0	0.0	14.0	29	60	841	Btuh
6	2, Clear, 0.87, None,N,N	SW	6.16	9ft.	66.0	66.0	0.0	29	63	1911	Btuh
7	2, Clear, 0.87, None,N,N	NW	14.3	9ft.	22.0	0.0	22.0	29	60	1321	Btuh
8	2, Clear, 0.87, None,N,N	SW	17.8	9ft.	11.0	11.0	0.0	29	63	319	Btuh
9	2, Clear, 0.87, None,N,N	NW	1.5ft	4ft.	8.0	0.0	8.0	29	60	480	Btuh
10	2, Clear, 0.87, None,N,N	NW	1.5ft	7ft.	25.0	0.0	25.0	29	60	1501	Btuh
11	2, Clear, 0.87, None,N,N	NE	0ft.	0ft.	25.0	0.0	25.0	29	60	1501	Btuh
12	2, Clear, 0.87, None,N,N	NE	0ft.	0ft.	8.0	0.0	8.0	29	60	480	Btuh
13	2, Clear, 0.87, None,N,N	NE	0ft.	0ft.	18.3	0.0	18.3	29	60	1099	Btuh
14	2, Clear, 0.87, None,N,N	SE	1.5ft	5ft.	6.0	1.0	5.0	29	63	340	Btuh
15	2, Clear, 0.87, None,N,N	SE	9.5ft	9ft.	72.0	72.0	0.0	29	63	2085	Btuh
16	2, Clear, 0.87, None,N,N	SE	12.5f	10ft.	28.0	28.0	0.0	29	63	811	Btuh
17	2, Clear, 0.87, None,N,N	SE	12.5f	3ft.	12.0	12.0	0.0	29	63	348	Btuh
18	2, Clear, 0.87, None,N,N	SE	1.5ft	8ft.	20.0	1.7	18.3	29	63	1192	Btuh
19	2, Clear, 0.87, None,N,N	SW	0ft.	0ft.	16.0	0.0	16.0	29	63	1001	Btuh
20	2, Clear, 0.87, None,N,N	SW	0ft.	0ft.	32.0	0.0	32.0	29	63	2001	Btuh
	Window Total				506 (sqft)					24572 Btuh	
Walls	Type		R-Value/U-Value		Area(sqft)			HTM		Load	
1	Frame - Wood - Ext		13.0/0.09		2051.4			2.1		4279 Btuh	
2	Frame - Wood - Adj		13.0/0.09		291.0			1.5		439 Btuh	
3	Frame - Wood - Adj		13.0/0.09		130.0			1.5		196 Btuh	
	Wall Total				2472 (sqft)					4914 Btuh	
Doors	Type				Area (sqft)			HTM		Load	
1	Insulated - Adjacent				21.3			9.8		209 Btuh	
2	Insulated - Exterior				50.0			9.8		490 Btuh	
3	Insulated - Exterior				50.0			9.8		490 Btuh	
	Door Total				121 (sqft)					1189 Btuh	
Ceilings	Type/Color/Surface		R-Value		Area(sqft)			HTM		Load	
1	Vented Attic/DarkShingle		30.0		3245.0			1.7		5374 Btuh	
	Ceiling Total				3245 (sqft)					5374 Btuh	
Floors	Type		R-Value		Size			HTM		Load	
1	Slab On Grade		0.0		308 (ft(p))			0.0		0 Btuh	
	Floor Total				308.0 (sqft)					0 Btuh	
	Zone Envelope Subtotal:									36049 Btuh	

Manual J Summer Calculations

Residential Load - Component Details (continued)

Spec House
Lake City, FL

Project Title:
810152ZecherBryanTheSavannah1021

Class 3 Rating
Registration No. 0
Climate: North

10/16/2008

Infiltration	Type SensibleNatural	ACH 0.34	Volume(cuft) 29560	CFM= 167.5	Load 3117 Btuh
Internal gain		Occupants 8	Btuh/occupant X 230 +	Appliance 2400	Load 4240 Btuh
Duct load	Partially sealed, R6.0, Supply(Attic), Return(Attic)			DGM = 0.00	0.0 Btuh
	Sensible Zone Load				43407 Btuh

Manual J Summer Calculations

Residential Load - Component Details (continued)

Spec House
Lake City, FL

Project Title:
810152ZecherBryanTheSavannah1021

Class 3 Rating
Registration No. 0
Climate: North

10/16/2008

WHOLE HOUSE TOTALS

Whole House Totals for Cooling	Sensible Envelope Load All Zones	43407 Btuh
	Sensible Duct Load	0 Btuh
	Total Sensible Zone Loads	43407 Btuh
	Sensible ventilation	0 Btuh
	Blower	0 Btuh
	Total sensible gain	43407 Btuh
	Latent infiltration gain (for 54 gr. humidity difference)	6122 Btuh
	Latent ventilation gain	0 Btuh
	Latent duct gain	0 Btuh
	Latent occupant gain (8 people @ 200 Btuh per person)	1600 Btuh
	Latent other gain	0 Btuh
	Latent total gain	7722 Btuh
	TOTAL GAIN	51128 Btuh

*Key: Window types (Pn - Number of panes of glass)
(SHGC - Shading coefficient of glass as SHGC numerical value or as clear or tint)
(U - Window U-Factor or 'DEF' for default)
(InSh - Interior shading device: none(N), Blinds(B), Draperies(D) or Roller Shades(R))
(ExSh - Exterior shading device: none(N) or numerical value)
(BS - Insect screen: none(N), Full(F) or Half(H))
(Ornt - compass orientation)



For Florida residences only

Residential Window Diversity

MidSummer

Spec House
Lake City, FL

Project Title:
810152ZecherBryanTheSavannah1021

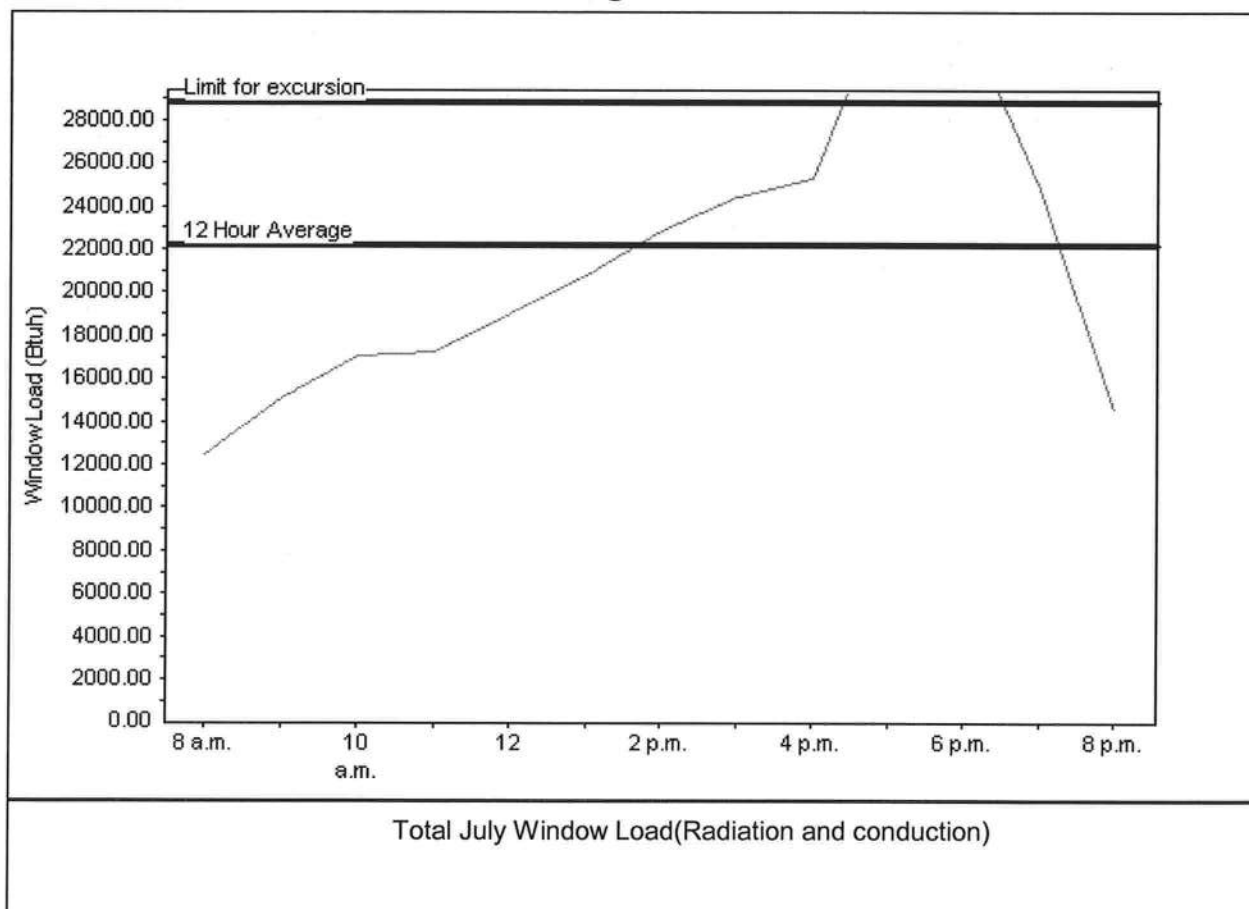
Class 3 Rating
Registration No. 0
Climate: North

10/16/2008

Weather data for: Gainesville - Defaults

Summer design temperature	92 F	Average window load for July	22193 Btu
Summer setpoint	75 F	Peak window load for July	34546 Btu
Summer temperature difference	17 F	Excursion limit(130% of Ave.)	28850 Btu
Latitude	29 North	Window excursion (July)	5696 Btuh

WINDOW Average and Peak Loads



This application has glass areas that produce large heat gains for part of the day. Variable air volume devices are required to overcome spikes in solar gain for one or more rooms. Install a zoned system or provide zone control for problem rooms. Single speed equipment may not be suitable for the application.

EnergyGauge® System Sizing for Florida residences only

PREPARED BY: Evan Beamsley

DATE: 10/16/08 EVAN BEAMSELEY

EnergyGauge® FLR2PB v4.1





Donald F. Lee & Associates, Inc.
Surveyors & Engineers

28026

140 NW Ridgewood Avenue
Lake City, Florida 32055
(386) 755-6166
Fax (386) 755-6167
donald@dfla.com

Tuesday, September 22, 2009

FROM: Tim Delbene, P.L.S.

TO: Columbia County Building & Zoning Dept.

CC: Bryan Zecher Construction

RE: Floor Elevation Check – Lot 54 – Oaks at Lake City

We have obtained elevations on the floor (stemwall) of a foundation under construction on the above referenced Lot. The elevations are based on Local Benchmark Datum. The results are as follows:

Finished Floor Elevation: 84.68'

The minimum required floor elevation for this Lot is 75.0', as shown on the record subdivision plat of Oaks at Lake City .

SIGNED: _____

Timothy A. Delbene, P.L.S.
Florida Reg. Cert. No. 5594

DATE: 9/22/2009.

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: 1TLM8228Z0209111335



Truss Fabricator: Anderson Truss Company

Job Identification: 8-035-BRYAN ZECHER Model 1021 The Oaks -- , **

Truss Count: 42

Model Code: Florida Building Code 2004 and 2006 Supplement

Truss Criteria: ANSI/TPI 2002(STD)/FBC

Engineering Software: Alpine Software, Version 7.36.

Structural Engineer of Record: The identity of the structural EOR did not exist as of

Address: the seal date per section 61G15-31.003(5a) of the FAC

Minimum Design Loads: Roof - 40.0 PSF @ 1.25 Duration

Floor - N/A

Wind - 110 MPH ASCE 7-02 -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: HCUSR8228

Details: BRCLBSUB-A11015EE-GBLLETIN-A13015EE-A11030EC-VALTRUSS-TCFILLER-BCFILLER-REPBCFIL-PIGBACKA-PIGBACKB-A1103

Handwritten signature of James F. Collins Jr.

Seal Date: 10/09/2008

-Truss Design Engineer-

James F. Collins Jr.

Florida License Number: 52212

1950 Marley Drive

Haines City, FL 33844

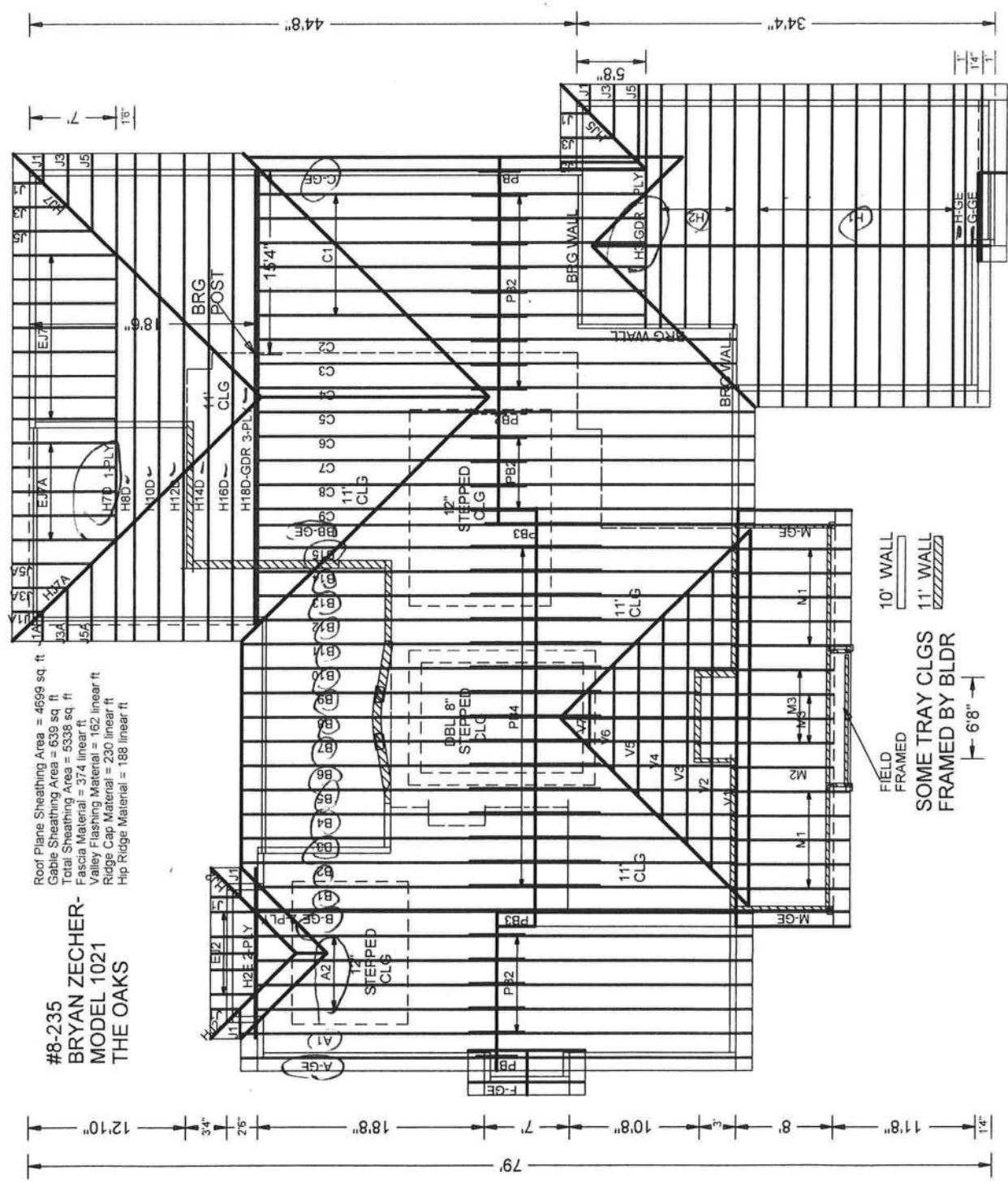
#	Ref	Description	Drawing#	Date
1	48705--A2		08283049	10/09/08
2	48706--A-GE		08283046	10/09/08
3	48707--A1		08283013	10/09/08
4	48708--V1		08283035	10/09/08
5	48709--V2		08283037	10/09/08
6	48710--V3		08283038	10/09/08
7	48711--V4		08283039	10/09/08
8	48712--V5		08283040	10/09/08
9	48713--V6		08283041	10/09/08
10	48714--V7		08283042	10/09/08
11	48715--B1		08283014	10/09/08
12	48716--B2		08283015	10/09/08
13	48717--B3		08283009	10/09/08
14	48718--B4		08283016	10/09/08
15	48719--B-GE		08283052	10/09/08
16	48720--B5		08283017	10/09/08
17	48721--B6		08283018	10/09/08
18	48722--B7		08283059	10/09/08
19	48723--B8		08283019	10/09/08
20	48724--B9		08283020	10/09/08
21	48725--B10		08283022	10/09/08
22	48726--B11		08283023	10/09/08
23	48727--B12		08283024	10/09/08
24	48728--B13		08283025	10/09/08
25	48729--B15		08283027	10/09/08
26	48730--B14		08283026	10/09/08
27	48731--BB-GE		08283048	10/09/08
28	48732--C9		08283045	10/09/08
29	48733--C8		08283030	10/09/08
30	48734--C7		08283043	10/09/08
31	48735--C6		08283044	10/09/08
32	48736--C5		08283034	10/09/08
33	48737--C4		08283033	10/09/08
34	48738--C3		08283032	10/09/08
35	48739--C2		08283028	10/09/08
36	48740--C1		08283031	10/09/08

#	Ref	Description	Drawing#	Date
37	48741--C-GE		08283036	10/09/08
38	48742--H7D		08283010	10/09/08
39	48743--H18D-GDR		08283011	10/09/08
40	48744--H8D		08283016	10/09/08
41	48745--H10D		08283017	10/09/08
42	48746--H12D		08283018	10/09/08
43	48747--H14D		08283019	10/09/08
44	48748--H16D		08283020	10/09/08
45	48749--H2E		08283001	10/09/08
46	48750--F-GE		08283029	10/09/08
47	48751--G-GE		08283021	10/09/08
48	48752--H3-GDR		08283060	10/09/08
49	48753--H1		08283022	10/09/08
50	48754--H2		08283003	10/09/08
51	48755--H-GE		08283023	10/09/08
52	48756--J1		08283007	10/09/08
53	48757--HJ5		08283002	10/09/08
54	48758--J3		08283006	10/09/08
55	48759--J5		08283005	10/09/08
56	48760--EJ2		08283004	10/09/08
57	48761--HJ2		08283021	10/09/08
58	48762--HJ7		08283056	10/09/08
59	48763--HJ7A		08283047	10/09/08
60	48764--EJ7		08283058	10/09/08
61	48765--EJ7A		08283057	10/09/08
62	48766--J1A		08283055	10/09/08
63	48767--J3A		08283054	10/09/08
64	48768--J5A		08283051	10/09/08
65	48769--M1		08283024	10/09/08
66	48770--M2		08283025	10/09/08
67	48771--M3		08283026	10/09/08
68	48772--M-GE		08283027	10/09/08
69	48773--PB2		08283053	10/09/08
70	48774--PB1		08283008	10/09/08
71	48775--PB4		08283050	10/09/08
72	48776--PB3		08283012	10/09/08



#8-235
BRYAN ZECHER-
MODEL 1021
THE OAKS

Roof Plane Sheathing Area = 4699 sq ft
Gable Sheathing Area = 639 sq ft
Total Sheathing Area = 5338 sq ft
Fascia Material = 374 linear ft
Valley Flashing Material = 162 linear ft
Ridge Cap Material = 230 linear ft
Hip Ridge Material = 188 linear ft



10' WALL
FIELD FRAMED
SOME TRAY CLGS
FRAMED BY BLDR
11' WALL
6'8"

81' 11'4" 12'8" 6' 11'8" 21'4"

79' 12'10" 3'4" 2'5" 18'8" 7' 10'8" 8' 11'8" 1'4"

12' 12' 11' 12' 12'

	Top chord	2x4	SP	#2	Dense
Bot chord	2x4	SP	#2	Dense	
webs	2x4	SP	#3	:W4	2x4 SP #2 Dense:

Roof overhang supports 2.00 psf soffit load.

Calculated horizontal deflection is 0.11" due to live load and 0.18" due to dead load.

(A) Continuous lateral bracing equally spaced on member.

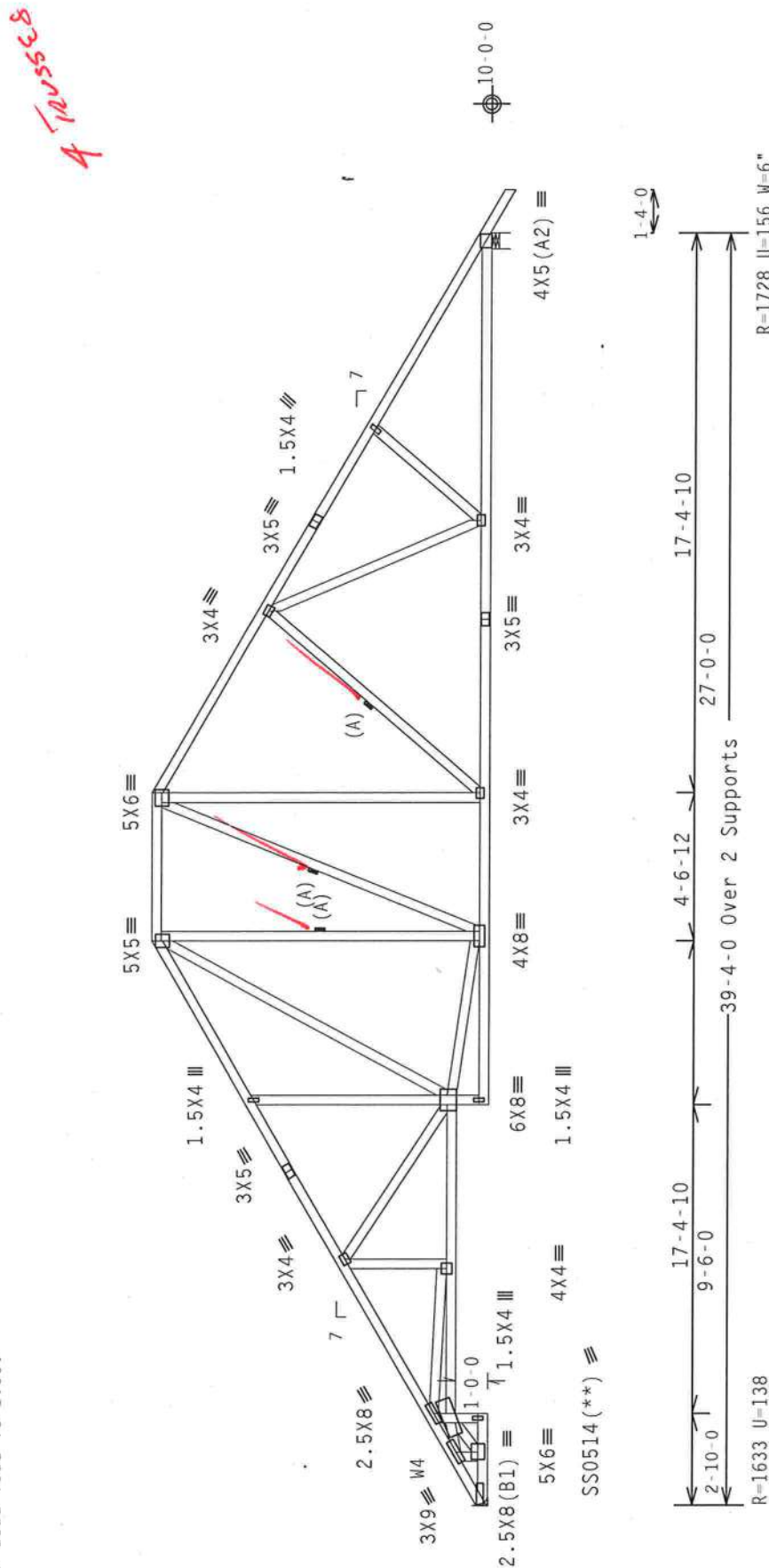
Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.

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

110 mph wind, 15.04 ft mean hgt., ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf, wind BC DL=5.0 GCpi (+/-)=0.18

Wind reactions based on MWFRS pressures.

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



R=1633 U=138

Design Crit: TPI-2002(STD)/FBC

$$Cq/RT=1.00(1.25)/0(0)$$

QTY. 1

Scale = 1875" / Ft

WARNING THUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. (SEE BECS) FOLLOWING COMPONENT INFORMATION, AND PUBLISHED BY THE CRUSS PLATE INSTITUTE, 218 NORTH GLENN STREET, SUITE 100, CHICAGO, ILL. 60614 (4080) THUSSES COUNCIL OF AMERICA, 6300 ENTERPRISE LANE, MADISON, WI 53719. FOR SAFETY REASONS PRIOR TO PERFORMING THESE FUNCTIONS, UNLESS OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE PROPERLY ATTACHED RISER/CETTING.

****IMPORTANT**** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ITW BCG, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN; ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH THE DESIGN SHALL BE THE RESPONSIBILITY OF THE INSTALLATION CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN, FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES.

DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF RDS (NATIONAL DESIGN SPEC. BY AISC) AND TPI. 1TH BCG

CONNECTOR PLATES ARE MADE OF 20/18/17GA (N.Y.55/5K) ASTM A653 GRADE 40/60 (N. KJH-SS) GALV. STEEL, AP-1

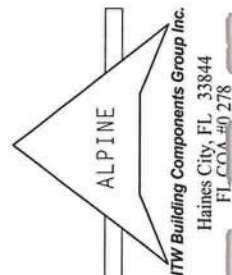
PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON POSITIONED PER DRAGINGS 160A-2, 160A-3

IF ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ABEX 43 OF TPI-2002 SEC. 3.2. A SEAL ON THIS

DRAWING INDICATES A COMPLIANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT

DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE

BUILDING DESIGNER PER ANY/ALL TPI 1 SEC. 2.



TC LL	20.0 PSF	REF	R8228- 48705
TC DL	10.0 PSF	DATE	10/09/08
BC DL	10.0 PSF	DRW	HCUSR8228 08283049
BC LL	0.0 PSF	HC-ENG	JB/AP
TOT.LD.	40.0 PSF	SEQN-	107767
DUR.FAC.	1.25	FROM	AH
SPACING	24.0"	JREF-	1TLM8228702

(8-235--BRYAN ZECHER Model 1021 The Oaks -- , ** - A-GE)

Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3

Roof overhang supports 2.00 psf soffit load.

(A) 1x4 #3SRB SPF-S or better "T" brace. 80% length of web member. Attach with 8d Box or Gun (0.113"x2.5".min.)nails @ 6" OC.

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

THE BUILDING DESIGNER IS RESPONSIBLE FOR THE DESIGN OF THE ROOF AND CEILING DIAPHRAGMS, GABLE END SHEAR WALLS, AND SUPPORTING SHEAR WALLS. SHEAR WALLS MUST PROVIDE CONTINUOUS LATERAL RESTRAINT TO THE GABLE END. ALL CONNECTIONS TO BE DESIGNED BY THE BUILDING DESIGNER.

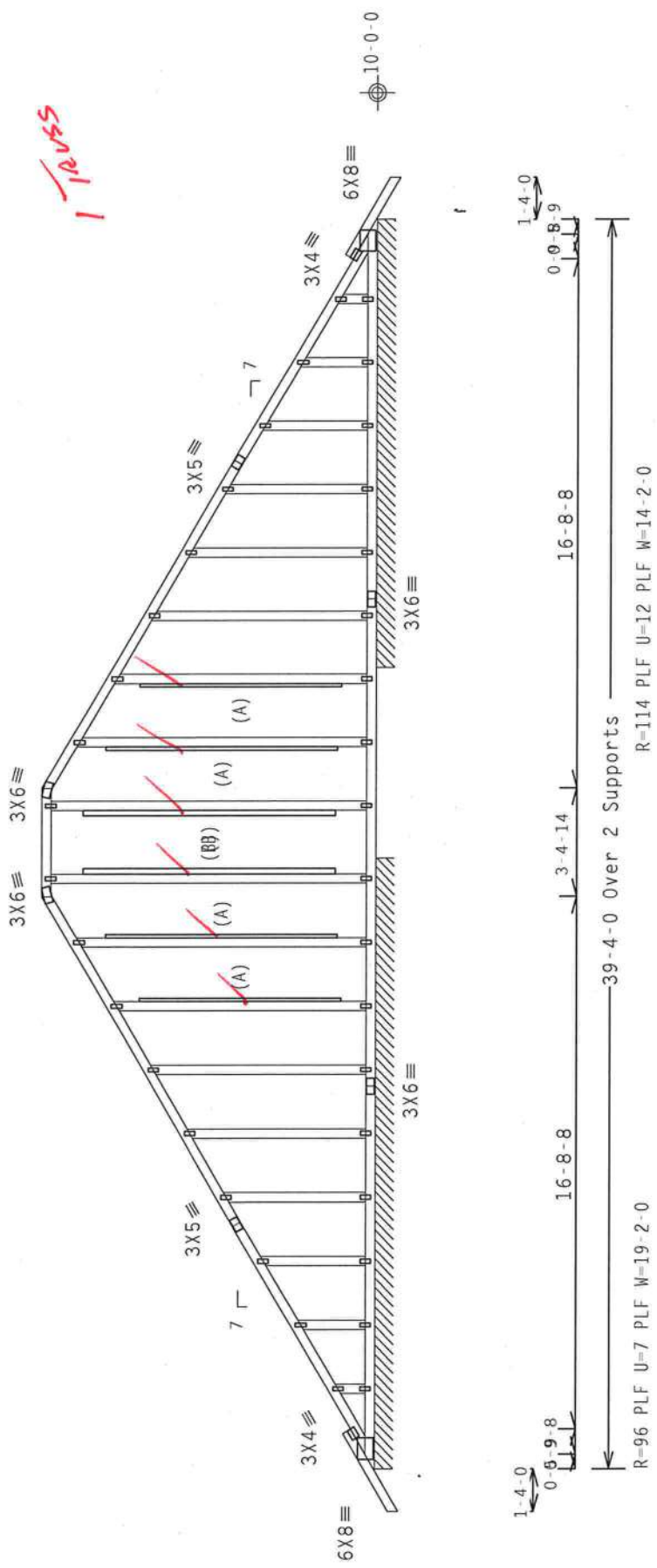
110 mph wind, 15.04 ft mean hgt, ASCE 7-02, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. IW=1.00 GCPI(+/-)=0.18

Wind reactions based on MWFRS pressures.

(B) 2x4 #3 or better "T" brace. 80% length of web member. Attach with 16d Box or Gun (0.135"x3.5".min.)nails @ 6" OC.

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

See DWGS A11030EC0207 & GBLLETIN0207 for more requirements.



Note: All Plates Are 1.5X4 Except As Shown.

Design Crit: TPI-2002(STD)/FBC

Cq/RT=1.00(1.25)/0(0)

QTY:1

Scale = .1875"/Ft.

FL/-4/-/R/-

7.36.00

7.36.00

7.36.00

7.36.00

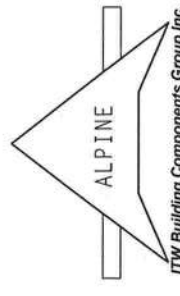
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7.36.00

WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN; ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI; OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC., BY AIA/PA) AND TPI. 1TH BCG CONNECTOR PLATES ARE MADE OF 2018/16GA (4-H/55/K) ASTM A563 GRADE 40/60 (4, K/H,SS) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-2. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF TPI-2002 SEC.3. A SEAL ON THIS DESIGN INDICATES THE SUBMITTAL AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER AHS/TPI 1 SEC. 2.

IMPORTANT FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. 1TH BCG, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN; ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI; OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC., BY AIA/PA) AND TPI. 1TH BCG CONNECTOR PLATES ARE MADE OF 2018/16GA (4-H/55/K) ASTM A563 GRADE 40/60 (4, K/H,SS) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-2. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF TPI-2002 SEC.3. A SEAL ON THIS DESIGN INDICATES THE SUBMITTAL AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER AHS/TPI 1 SEC. 2.



ITW Building Components Group Inc.
Haines City, FL 33844
FL 33844-278



TC LL	20.0 PSF	FL/-4/-/R/-	Scale = .1875"/Ft.
TC DL	10.0 PSF		REF R8228- 48706
BC DL	10.0 PSF		DATE 10/09/08
BC LL	0.0 PSF		DRW HCUSR8228 08283046
TOT.LD.	40.0 PSF		HC-ENG JB/AP
DUR.FAC.	1.25		SEQN- 107752
SPACING	24.0"		FROM AH
			QREF- 1T1 M8228Z02

	Top	chord	2x4	SP	#2	Dense
Bot	chord	2x4	SP	#2	Dense	
	webs	2x4	SP	#3		

1110 mph wind, 15.04 ft mean hgt, ASCE 7-02, CLOSED bldg, Located
anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC
DL=5.0 psf. Iw=1.00 GCpi(+/-)=0.18

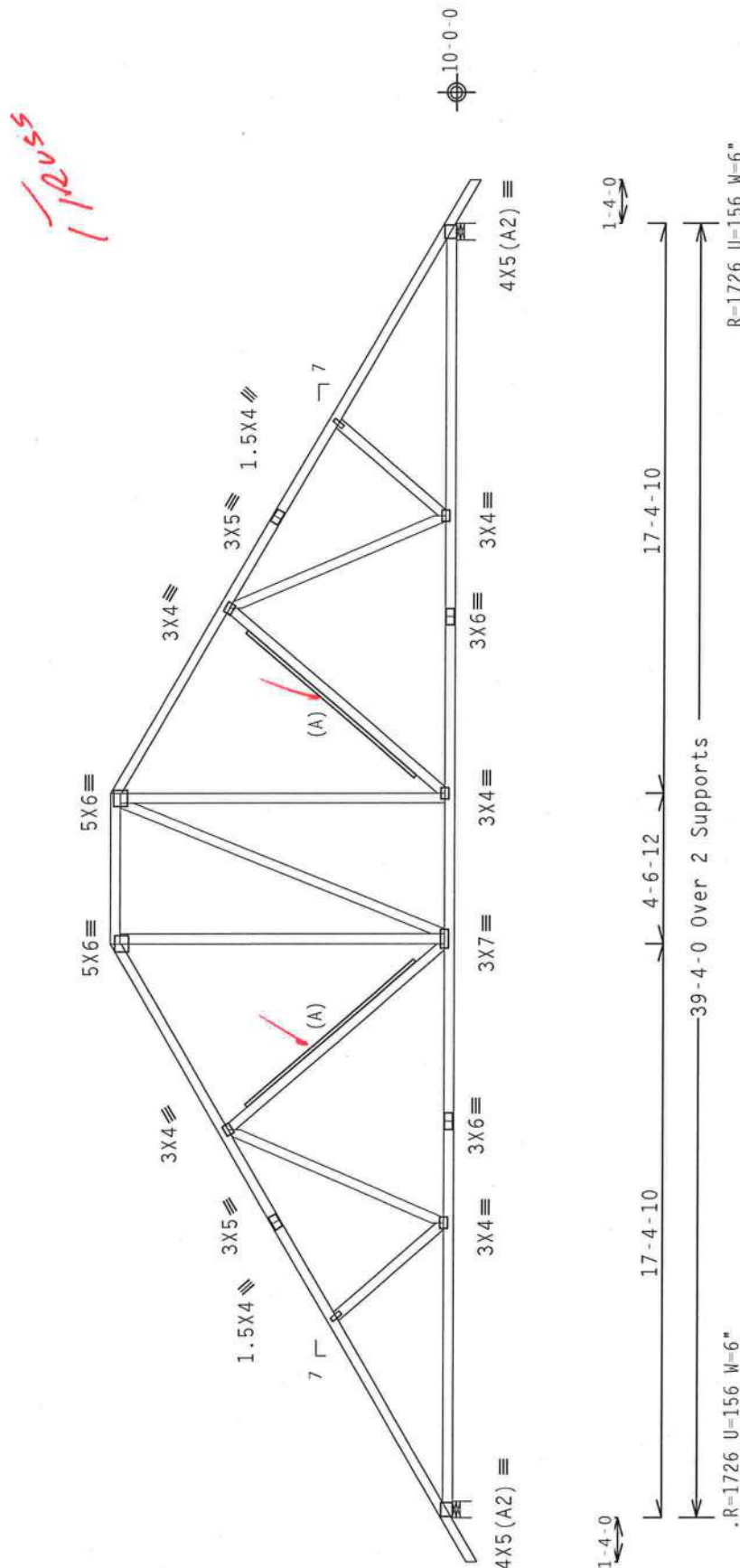
Roof overhang supports 2.00 psf soffit load.

(A) 1x4 #3SRB SPF-5 or better "T" brace. 80% length of web member. Attach with 8d Box or Gun (0.113"x2.5", min.) nails @ 6" OC.

Wind reactions based on MWFRS pressures.

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.

Design Crit: TPI-2002(STD)/FBC
C_d/RT=1.00(1.25)/

PLT TYP. Wave

Scale = .1875"/Ft.

****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BEST AVAILABLE COMPONENT SAFETY INFORMATION. PUBLISHED BY TP1 (TRUSS PLATE INSTITUTE, 6200 HUNTER BLVD., SUITE 300, CHICAGO, IL 60631) AND BECA (#6800 TRUSS COUNCIL OF AMERICA, 210 ENTERPRISE LANE, MADISON, WI 53719). THESE SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS, UNLESS OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE PROBENY ATTACHED RIGID CELLS.

EF R8228- 48707

DATE 10/09/08

URW HCUSR8228 08283013

IC-ENG JB/AP

107758 FON-

FROM	AH
------	----

REF- 1T1 M8228702

100



15 2470

Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3

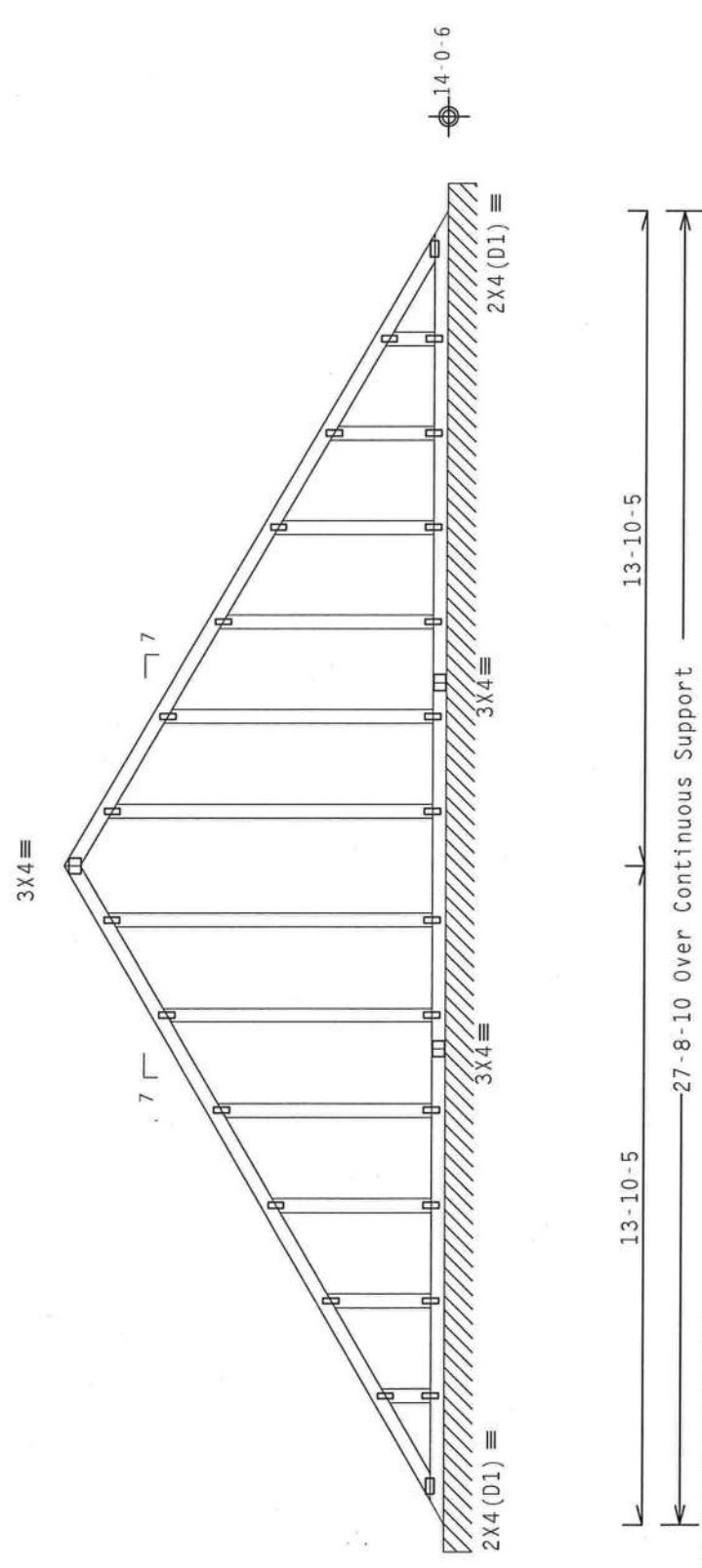
Truss spaced at 24.0" OC designed to support 1-4-0 top chord
outlookers. Cladding load shall not exceed 10.00 PSF. Top chord
must not be cut or notched.

See DWG VALTRUSS0207 for valley details.

110 mph wind, 18.22 ft mean hgt, ASCE 7-02, CLOSED bldg, not
located within 4.50 ft from roof edge, CAT II, EXP B, wind TC
DL=5.0 psf, wind BC DL=5.0 psf. $1w=1.00 \text{ GCpi}(+/-)-0.18$

Wind reactions based on MWFRS pressures.

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



Note: All Plates Are 1.5X4 Except As Shown.

Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/0(0)

PLT TYP. Wave

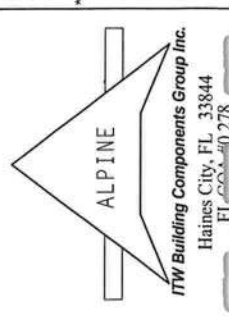
7.36.00.42

QTY: 1

Scale = .25"/Ft.

****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCS1 BUILDING COMPONENT SAFETY, INC. 210 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA 22304 AND WEA (WOOD TRUSS) CONNECTIONS, UNLESS OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

****IMPORTANT**** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ITW BCG, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN; ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI1 OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF HDS (NATIONAL DESIGN SPEC. BY AIA/ASA) AND TPI1. ITW BCG CONNECTOR PLATES ARE MADE OF 20/18/16GA (H/H/SS/K) ASTM A653 GRADE 40/60 (H, K/H/SS) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-2. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF TPI3-2002 SEC.3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT MANUFACTURED BY ITW BUILDING COMPONENTS GROUP INC. SEC. 2. BUILDING DESIGNER PER ANSI/TPI1 SEC. 2.



TC LL	20.0 PSF	FL/-/4/-/-/R/-	Scale = .25"/Ft.
TC DL	10.0 PSF		REF R8228- 48708
BC DL	10.0 PSF		DATE 10/09/08
BC LL	0.0 PSF		DRW HCUSR8228 08283035
TOT.LD.	40.0 PSF		HC-ENG JB/AP
DUR.FAC.	1.25		SEQN- 107705
SPACING	24.0"		FROM AH
			JREF- 1T1M8228Z02

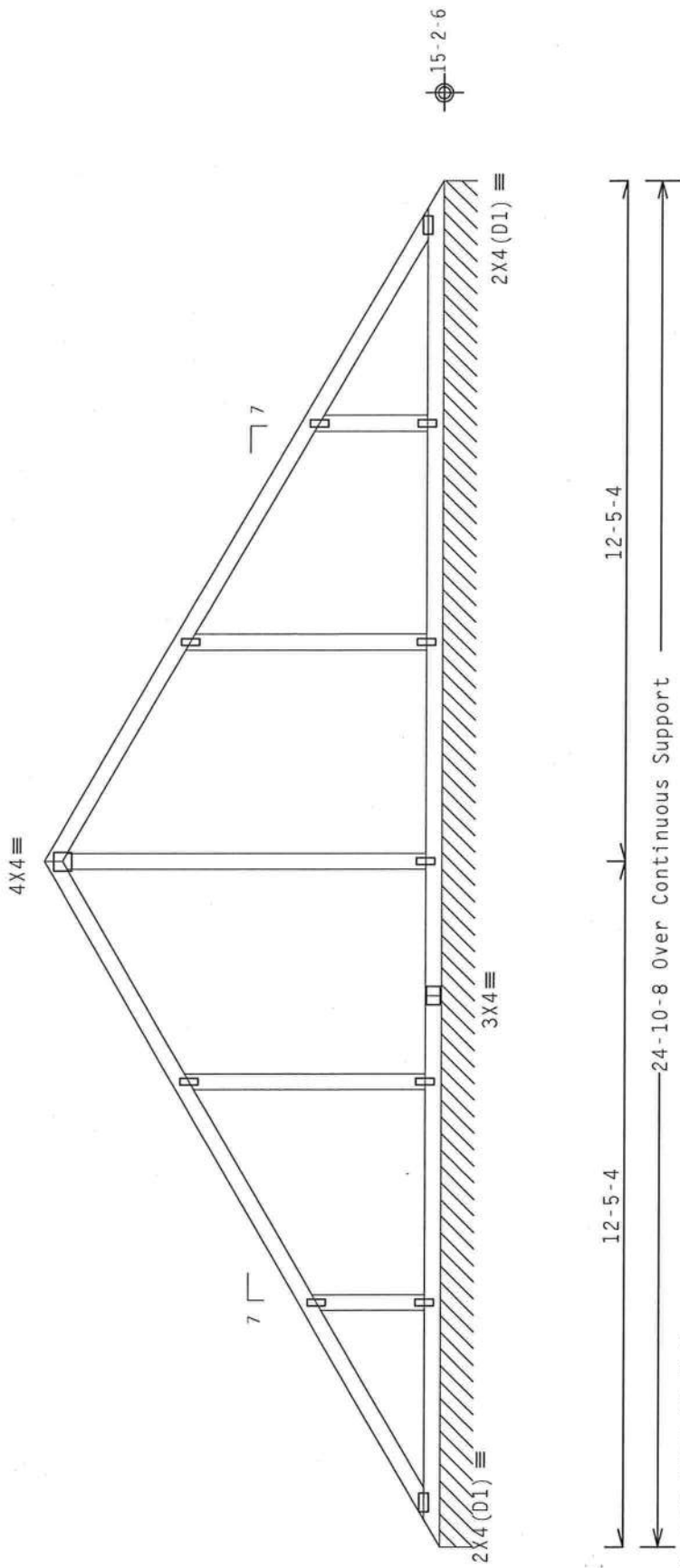
Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3

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

110 mph wind, 18.97 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. $I_w=1.00$ $G_{Cpi}(+/-)=0.18$

Wind reactions based on MWFRS pressures.

See DWG VALTRUSS0207 for valley details.



ALPINE

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

PLT TYP. Wave

Note: All Plates Are 1.5X4 Except As Shown.

Design Crit: TPI-2002(STD)/FBC

Cq/RT=1.00(1.25)/0(0)

7.36.00.04.00.00

QTY:1

FL/-/4/-/4/-/R/-

Scale = .3125"/Ft.

TC LL	20.0 PSF	REF	R8228- 48709
TC DL	10.0 PSF	DATE	10/09/08
BC DL	10.0 PSF	DRW	HCUSR8228 08283037
BC LL	0.0 PSF	HC-ENG	JB/AP
TOT.LD.	40.0 PSF	SEQN-	107717
DUR.FAC.	1.25	FROM	AH
SPACING	24.0"	JREF-	1TI M8228Z02

****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSI (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 214 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND MICA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LANE, MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

****IMPORTANT**** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ITM BCG, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN; ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI; OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AIA/PSA) AND TPI. ITM BCG CONNECTOR PLATES ARE MADE OF 2018/16GA (N/A/SS/K) ASTM A563 GRADE 40/60 (N/A/K/PS) GALV. STEEL. APPLY AN INSPECTOR'S SEAL TO EACH TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-2, 160A-3, 160A-4, 160A-5, 160A-6, 160A-7, 160A-8, 160A-9, 160A-10, 160A-11, 160A-12, 160A-13, 160A-14, 160A-15, 160A-16, 160A-17, 160A-18, 160A-19, 160A-20, 160A-21, 160A-22, 160A-23, 160A-24, 160A-25, 160A-26, 160A-27, 160A-28, 160A-29, 160A-30, 160A-31, 160A-32, 160A-33, 160A-34, 160A-35, 160A-36, 160A-37, 160A-38, 160A-39, 160A-40, 160A-41, 160A-42, 160A-43, 160A-44, 160A-45, 160A-46, 160A-47, 160A-48, 160A-49, 160A-50, 160A-51, 160A-52, 160A-53, 160A-54, 160A-55, 160A-56, 160A-57, 160A-58, 160A-59, 160A-60, 160A-61, 160A-62, 160A-63, 160A-64, 160A-65, 160A-66, 160A-67, 160A-68, 160A-69, 160A-70, 160A-71, 160A-72, 160A-73, 160A-74, 160A-75, 160A-76, 160A-77, 160A-78, 160A-79, 160A-80, 160A-81, 160A-82, 160A-83, 160A-84, 160A-85, 160A-86, 160A-87, 160A-88, 160A-89, 160A-90, 160A-91, 160A-92, 160A-93, 160A-94, 160A-95, 160A-96, 160A-97, 160A-98, 160A-99, 160A-100. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY FOR THE TRUSS COMPONENT DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.

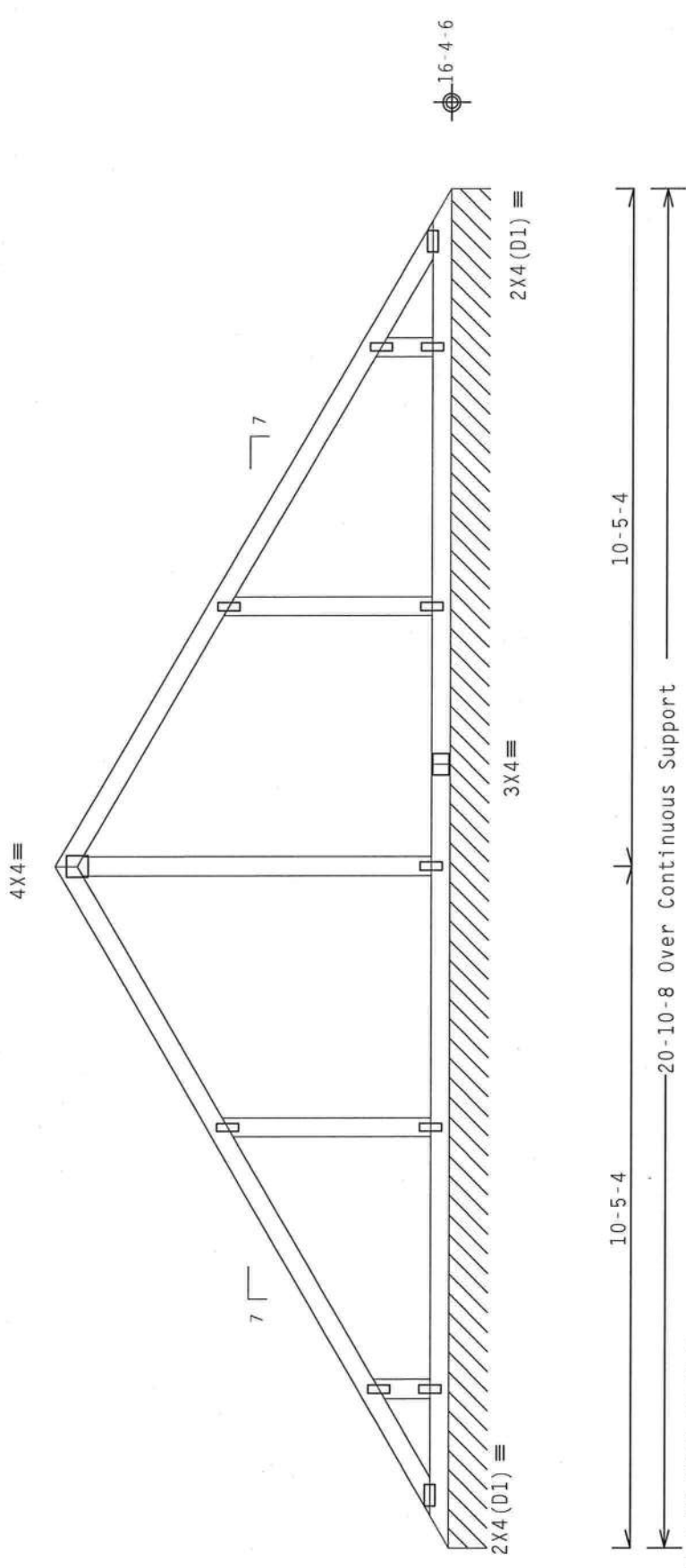
Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3

110 mph wind, 19.55 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. $lw=1.00 G_{CPI}(+/-)0.18$

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

Wind reactions based on MWFRS pressures.

See DWG VALTRUSS0207 for valley details.



Note: All Plates Are 1.5X4 Except As Shown.

Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/0(0) 7.36.00.04

PLT TYP. Wave

Scale = .375"/Ft.

REF	DATE	DRW	HC-ENG	JB/AP	SEON	FROM	10/09/08
R8228-48710	10/09/08	HCUSR8228-08283038	HC-ENG	JB/AP	SEON	FROM	10/09/08
TC LL	20.0 PSF	FL/-/4/-/R/-	QTY:1	FL/-/4/-/R/-	TC LL	20.0 PSF	REF R8228-48710
TC DL	10.0 PSF				TC DL	10.0 PSF	DATE 10/09/08
BC DL	10.0 PSF				BC DL	10.0 PSF	DRW HCUSR8228-08283038
BC LL	0.0 PSF				BC LL	0.0 PSF	HC-ENG JB/AP
TOT.LD.	40.0 PSF				TOT.LD.	40.0 PSF	SEON 107722
DUR.FAC.	1.25				DUR.FAC.	1.25	FROM AH
SPACING	24.0"				SPACING	24.0"	QREF-1TLM8228Z02

ALPINE

NTW Building Components Group Inc.
Haines City, FL 33844
FL 0004 40 278

James R. Collins, Jr.
Professional Engineer
No. 52212
State of Florida

WARNING: TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSI (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND MICA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LANE, MADISON, MI 48071) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

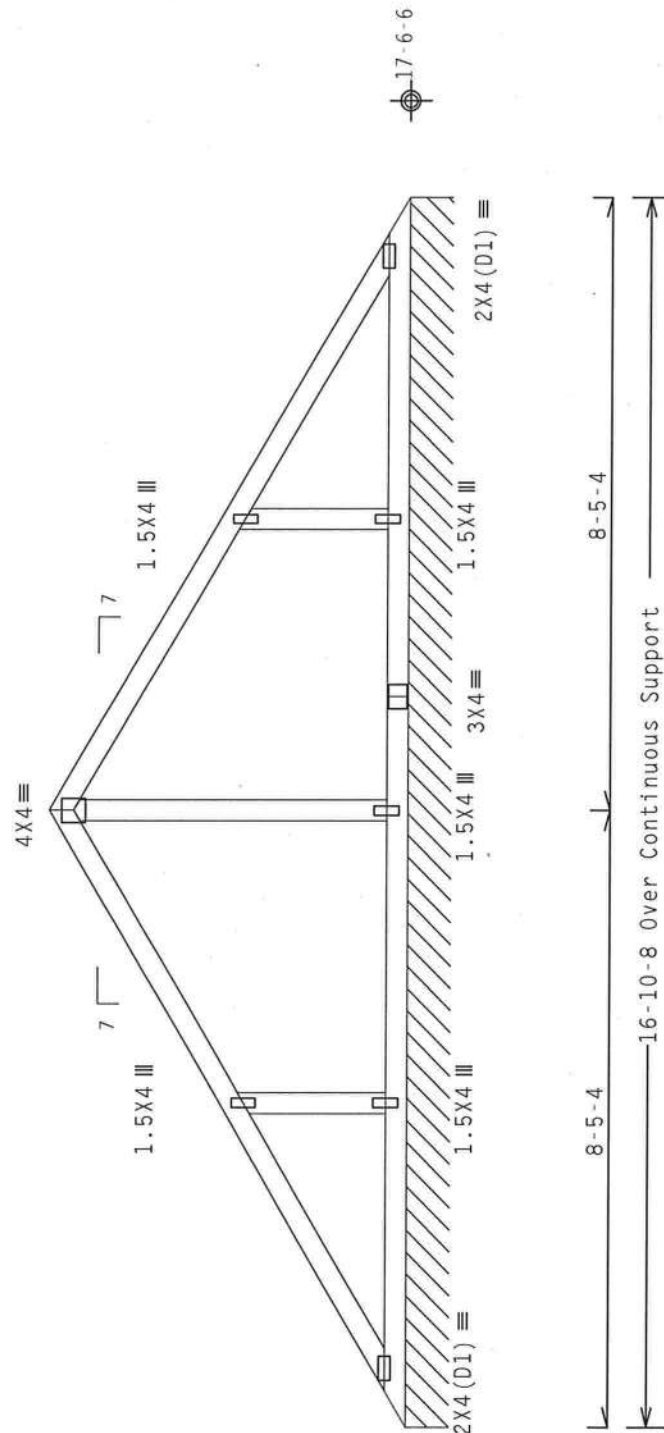
IMPORTANT: FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ITM BCG, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN; ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI; OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AF&PA) AND TPI. 1TM BCG CONNECTOR PLATES ARE MADE OF 2019/16GA (44/55/55/K) ASTM A505 GRADE 40/60 (44, 55/55) GALV. STEEL. APPLY AN ADDED TOP CHORD PLATE TO EACH TRUSS AND BOTTOM CHORD PLATE TO EACH TRUSS. POSITION PER DRAWINGS 160A.2. DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.

110 mph wind, 20.14 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. Iw=1.00 GCpi(+/-)=0.18

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

Wind reactions based on MWFRS pressures.

See DWG VALTRUSS0207 for valley details.



R=83 PLF U=12 PLF W=16-10-8

16-10-8 Over Continuous Support

8-5-4

—

Design Crit: TPI-2002(STD)/FBC

 $Cq/RT=1.00(1.25)/0(0)$

.36.00

OTY:1

- / R / -

$$\text{ale} =$$

75" / Ft

Scale = 375"/Ft

WARNING: THUSSELS REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BEST BUILDING COMPONENT SAFETY INFORMATION FOR ALL DETAILS. THUSSELS ARE AVAILABLE FROM THE CHSS PLATE INSTITUTE, 2100 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA 22304, AND VICA, 1000 TRUCKEE CIRCLE, SUITE 100, NORTH LEE STREET, MADISON, WI 53719. FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS, OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE PROPERLY ATTACHED RIGID CEILING.

*****IMPORTANT*****FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ITW BCG, INC., SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN; ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH DPTI OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES.

DESIGN OR FABRICATING WITH APPLICABLE PROVISIONS OF AISC NATIONAL DESIGN SPEC. FOR STEEL AND TP1. 17U BEG
CONNECTION PLATES ARE MADE OF 20/18/16GA (M/H/SS/K) ASTM A663 GRADE 40/60 (N. K/H/SS) GALV. STEEL, APPLY
PLATES TO EACH FACE OF TRUSS AND, OTHERWISE LOCATED ON DESIGN POSITION PER DRAWINGS 160A-2. A SEAL ON THIS
ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANEX A.3 OF TP1/2002 SEC.3. A SEAL ON THIS
DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT
DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE
BUILDING DESIGNER PER ANEX/TP1.1 SEC. 2.



FL COA #0 278

ITW Building Components Group Inc.

Haines City, FL 33844

FL COA #0 278

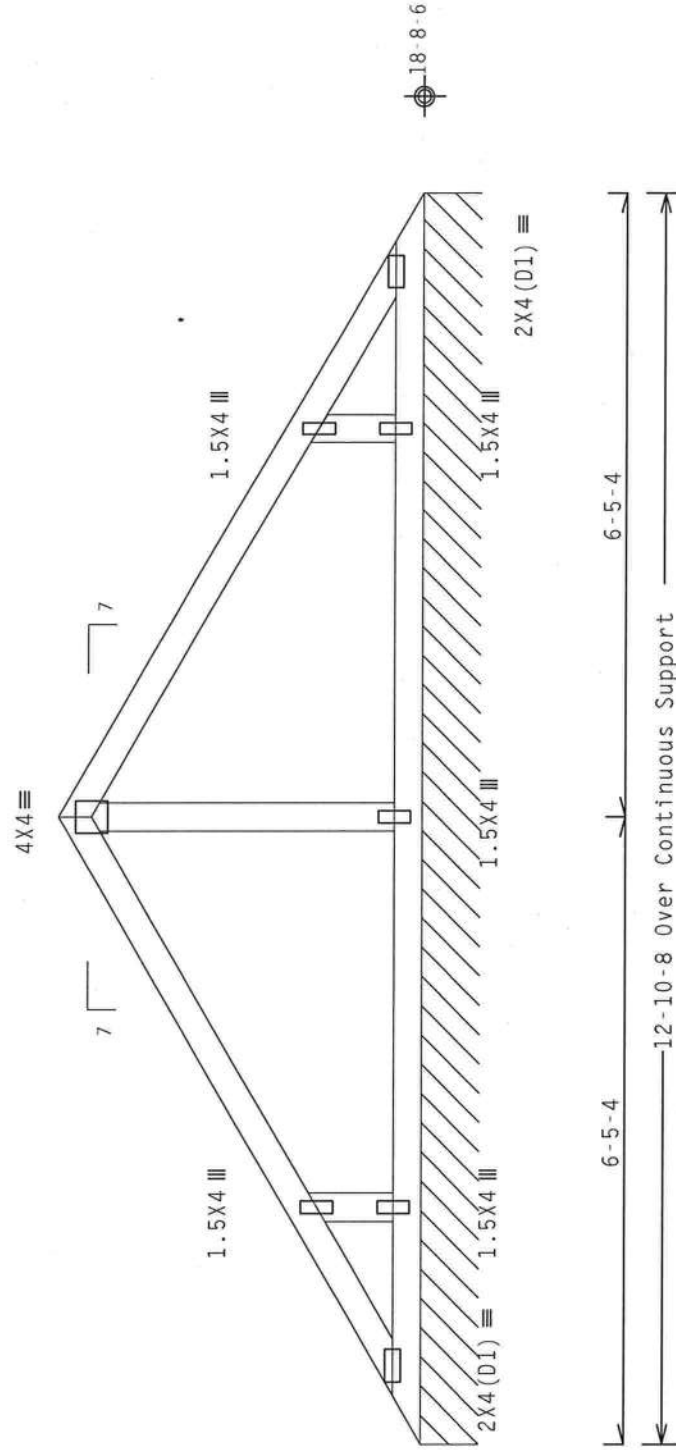
	Top chord	2x4	SP	#2	Dense
	Bot chord	2x4	SP	#2	Dense
	Webbs	2x4	SP	#3	

110 mph wind, 20.72 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf $I_w=1.00$ GCpi(+/-)=0.18

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

Wind reactions based on MWFRS pressures.

See DWG VALTRUSS0207 for valley details.



R-83 PLF U=12 PLF W=12-10-8

Design Crit: TPI-2002(STD)/FBC
Ca/RT=1.00(1.25)

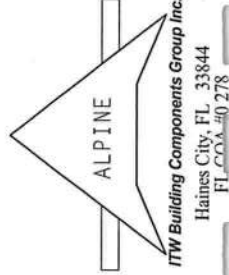
FL / - / 4 / - / - / R / -		Scale = .5" / Ft..	
TC LL	20.0 PSF	REF	R8228- 48712
TC DL	10.0 PSF	DATE	10/09/08
BC DL	10.0 PSF	DRW	HCUSR8228 08283040
BC LL	0.0 PSF	HC-ENG	JB/AP *
TOT.LD.	40.0 PSF	SEQN-	107731
DUR.FAC.	1.25	FROM	AH
SPACING	24.0"	JREF-	1TLM8228Z02

WARNING: TRUSSES REQUIRE EXTREME CARE IN ERECTION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BEST BUILDING COMPONENT SAFETY INFORMATION PUBLISHED BY THE MANUFACTURER. 2100 NORTH LEE STREET, SUITE 312, ALXANDRIA, VA 22314, AND AISC (WOOD TRUSS COUNCIL) 500 ENTERPRISE LANE, MADISON, WI 53719, FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE PROPERLY ATTACHED RIGID BRACING.

IMPORTANTFURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ITN BCG, INC., SHALL NOT BE RESPONSIBLE FOR ANY DEVIATIONS FROM THIS DESIGN; ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH THESE OR SUBSEQUENT REVISIONS WILL BE AT YOUR RISK AND WITHOUT LIABILITY TO ITN BCG, INC.

DESIGNER'S COMMENTS:
REWORKING DRAWING PER ILLUSTRATED PHOTOGRAPHY BY ARTPROJ & TPI, LTD.
ITN BCG HAS REVIEWED THIS WORK AND APPROVES AS SHOWN ON THIS SET
CONNECTION PLATES ARE MADE OF 70/90/16GA./A-36 STEEL W/8X5/8IN. GUSSET PLAGES MADE OF KINGSFORD STEEL
PLATES TO EACH FACE OF TRUSS AND , UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-Z

A SEAL ON THIS INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ABEX A3 OF TP11-2002 SEC.3,
DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING EXCLUSIVELY FOR THE TRUSS COMPONENT DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER. PER ANSI/TPI 1 SEC. 2,



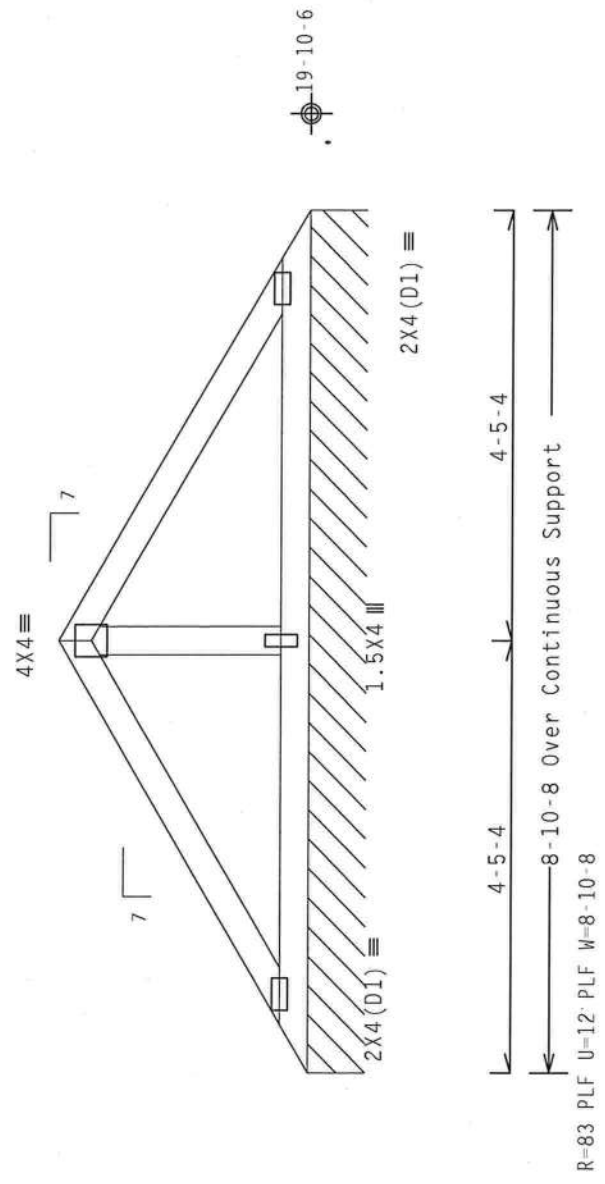
Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3

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

110 mph wind, 21.30 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. 1w=1.00 GCPi (+/-)-0.18

Wind reactions based on MWFRS pressures.

See DWG VALTRUSS0207 for valley details.



PLT TYP. Wave

ALPINE

ITW Building Components Group Inc.
Haines City, FL 33844
FL 00000278

Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/0(0)

7.36.00.04

QTY: 1

Scale = .5" / Ft.

TC LL	20.0 PSF	FL / - / 4 / - / - / R / -	REF	R8228- 48713
TC DL	10.0 PSF		DATE	10/09/08
BC DL	10.0 PSF		DRW	HCUSR8228 08283041
BC LL	0.0 PSF		HC-ENG	JB/AP *
TOT.LD.	40.0 PSF		SEQN-	107735
DUR.FAC.	1.25		FROM	AH
SPACING	24.0"		JREF-	1TLM8228Z02

AMERICAN LUMBER

NO. 52212

STATE OF FLORIDA

PROFESSIONAL ENGINEER

Oct 09 2008

WARNING TRUSSES REQUIRING EXTERIOR CORNERS IN FABRICATION. HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BC51 (BUILDING COMPONENT SAFETY INFORMATION) FOR THE FOLLOWING INFORMATION: 210 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314 AND HENRICH (HOND) TRUSSES, A DIVISION OF HENRICH ENTERPRISE LANE, MADISON, MI 48219. FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS, UNLESS OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

IMPORTANT FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ITW BCG, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN; ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI; OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF RDS (NATIONAL DESIGN SPEC. BY AIA/ASA) AND TPI. 1TH BCG CONNECTOR PLATES ARE MADE OF 2018/1816GA (M-N/552K) ASTM A653 GRADE 40/60 (W. K/R-55) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-2. A SEAL ON THIS INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF TPI-2002 SEC.3. A SEAL ON THIS ANNEX INDICATES THE SUFFICIENCY OF THE PROFESSIONAL ENGINEERING RESPONSIBILITY. SOLELY FOR THE TRUSS COMPONENT DESIGNER SHALL THE SUFFICIENCY OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.

Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3

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

110 mph wind, 21.89 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. $lw=1.00 G_{CPI}(+/-)=0.18$

Wind reactions based on MWFRS pressures.

See DWG VALTRUSS0207 for valley details.

4X4

2X4 (D1) 1.5X4 2X4 (D1)

7 7

21-0-6

2-5-4 2-5-4

4-10-8 Over Continuous Support

R=83 PLF U=10 PLF W=4-10-8

Design Crit: TPI-2002(STD)/FBC

Cq/RT=1.00(1.25)/0(0) 7.36.00 QTY:1

Scale = .5"/Ft.

PLT TYP. Wave

REF R8228- 48714

DATE 10/09/08

DRW HCUSR8228 08283042

HC-ENG JB/AP

SEQN- 107739

FROM AH

JREF- 1TLM8228Z02

ALPINE

rtw Building Components Group Inc.

Haines City, FL 33844

FL COA #0278

Oct 09 08

JAMES E. PROFFERS JR.

No. 5223

STATE OF FLORIDA

PROFESSIONAL ENGINEER

10/09/08

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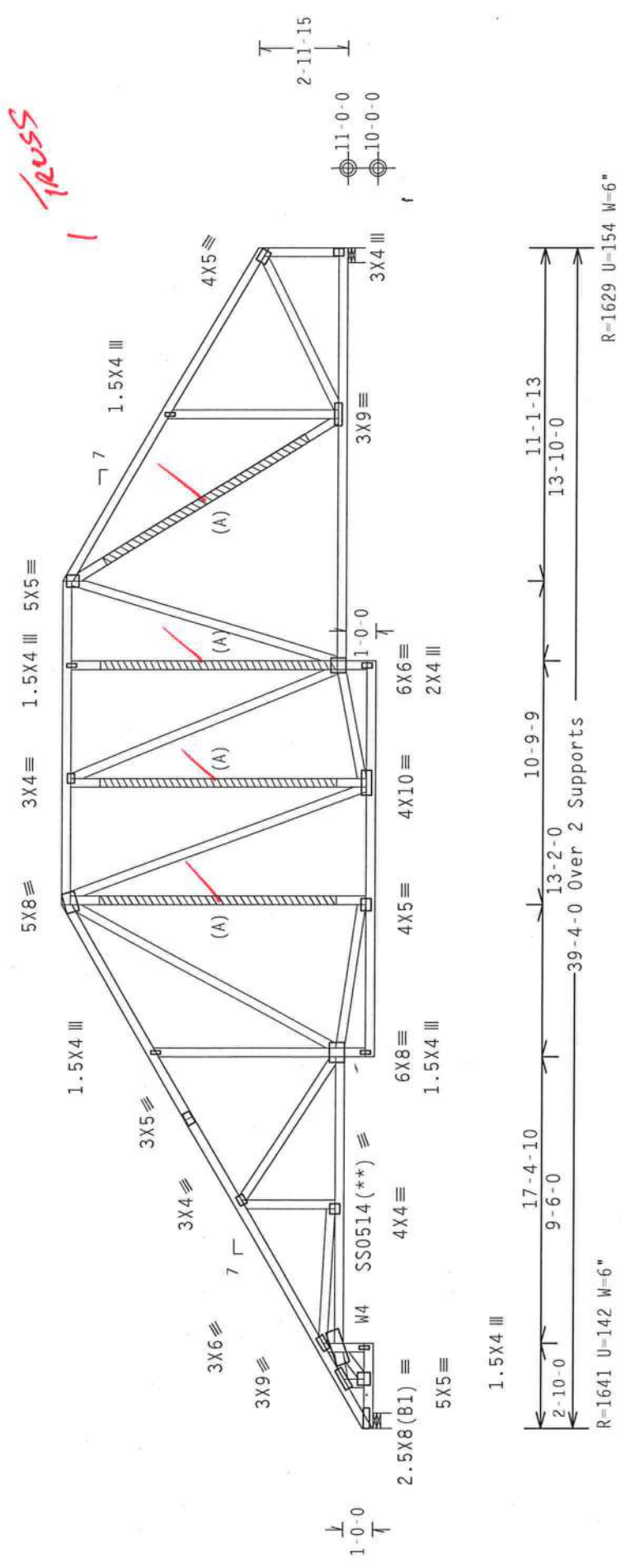
(8-235--BRYAN ZECHER Model 1021 The Oaks -- , ** - B1)

Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3 :W4 2x4 SP #2 Dense:

Calculated horizontal deflection is 0.10" due to live load and 0.15" due to dead load.

(A) #3 or better scab brace. Same size & 80% length of web member. Attach with 10d Box or Gun (0.128"x3", min.) nails @ 6" OC. In lieu of structural panels use purlins to brace all flat TC @ 24" OC.

(**) 1 plate(s) require special positioning. Refer to scaled plate plot details for special positioning requirements.
110 mph wind, 15.43 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. $I_w=1.00$ Gcpi (+/-)=0.18
Wind reactions based on MWFRS pressures.
Right end vertical not exposed to wind pressure.
Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.



	Top	chord	2x4	SP	#2	Dense
	Bot	chord	2x4	SP	#2	Dense
		webs	2x4	SP	#3	

110 mph wind, 15.04 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf Iw=1.00 GCpi(+/-)=0.18

Roof overhang supports 2.00 psf soffit load.

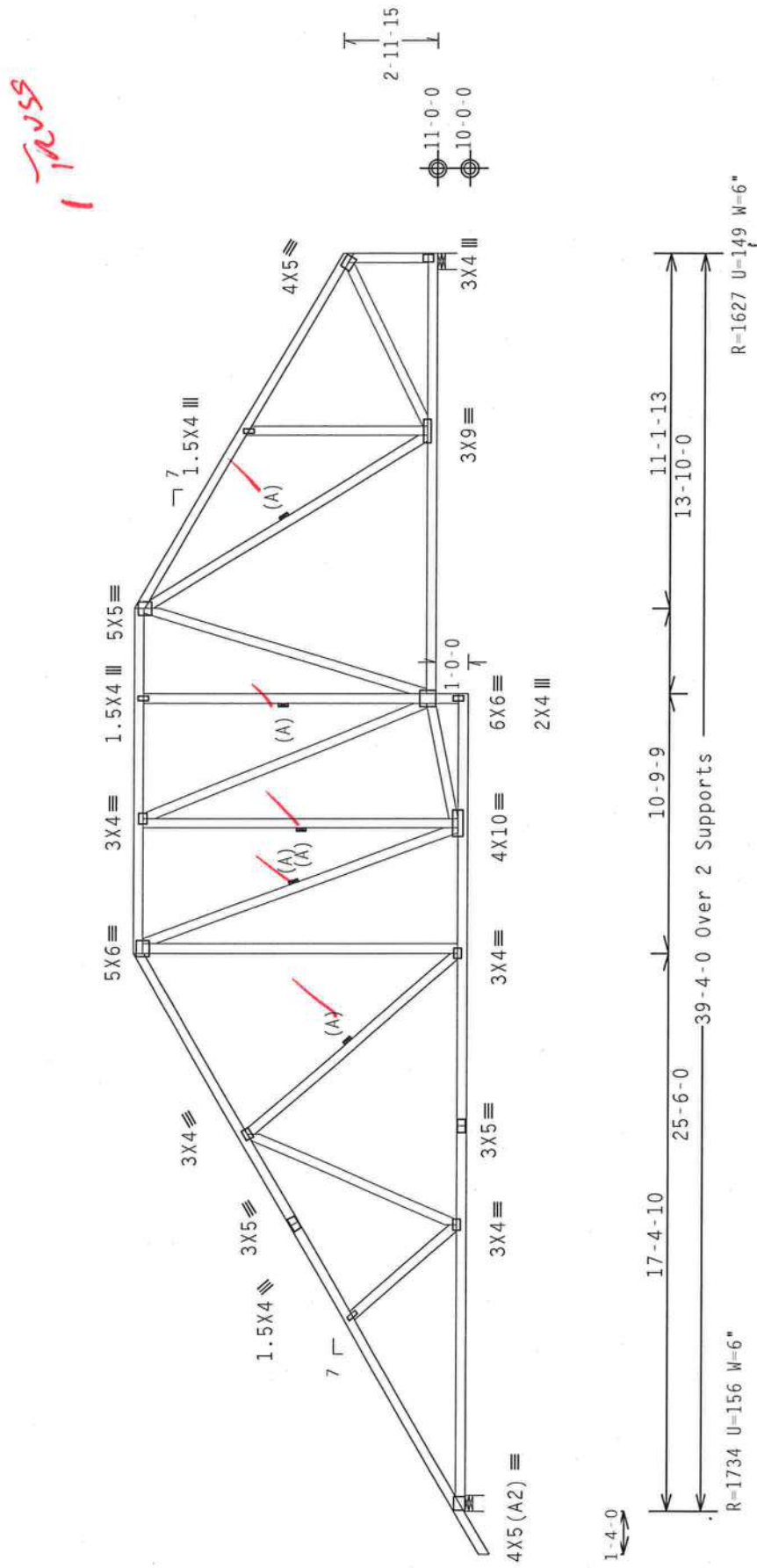
Wind reactions based on MWFRS pressures.

(A) Continuous lateral bracing equally spaced on member.

Right end vertical not exposed to wind pressure.

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.

Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/

Scale = 1875" / Ft

QTY:1 FL/-/4/-/-/R/-

.00

 $Cq/RT=1.00(1.25)/0(0)$ 7.

1111

PLT TYP. Wave

WARNING: THESE REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND DEACING. REFER TO BEST BUILDING COMPONENT SAFETY INFORMATION, PUBLISHED BY THE CROSS PLATE INSTITUTE, 2100 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA 22304, AND AISC, 5300 OLD FARM ROAD, PITTSBURGH, PA 15205, FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE OPERATIONS. UNLESS OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE PROPERLY ATTACHED RIGID CEILING.

[illegible]

REF R8228- 48716

DATE 10/09/08

TC DL	10.0
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DATE 10/05/00

DOI: 00000000 00000000

DKW HCUSR8228 0828301
110 FNO 30 / AD

HC - ENG JB/AP

SEQN-	107785
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99	107785
100	107785

FROM AH

JREF- 1TLM8228Z02

10

Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3

Roof overhang supports 2.00 psf soffit load.

(A) Continuous lateral bracing equally spaced on member.

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

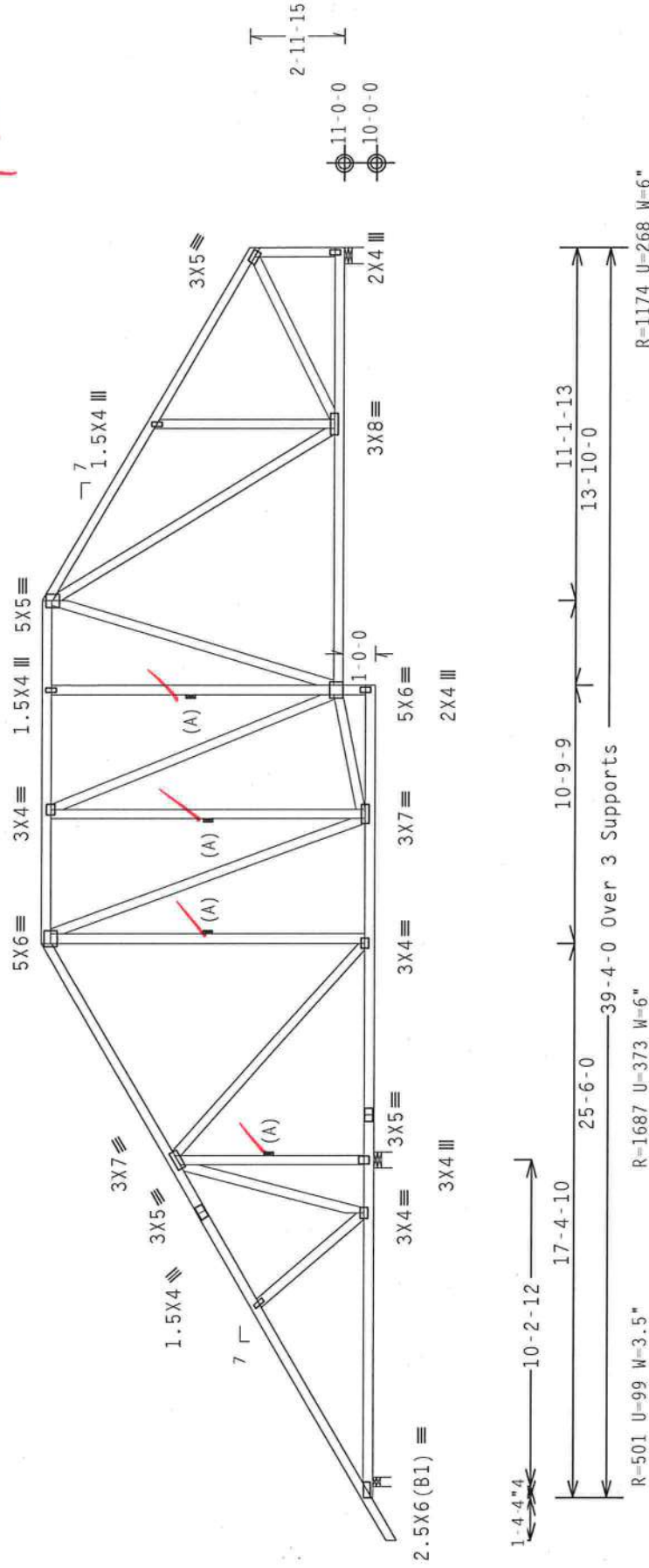
110 mph wind, 15.04 ft mean hgt, ASCE 7-02, PART-ENC. bldg. not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. $lw=1.00 Gcpi(+/-)-0.55$

Wind reactions based on MWFRS pressures.

Right end vertical not exposed to wind pressure.

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

1 TRUSS



Design Crit: TPI-2002 (STD) / FBC

Cq/RT=1.00(1.25)/0(0)

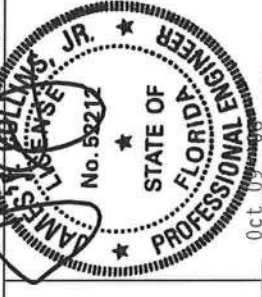
7.36.00

QTY: 1 FL/-/4/-/R/-

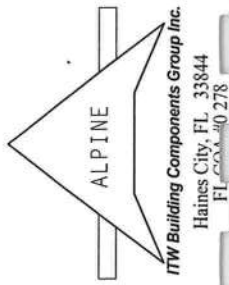
Scale = .1875"/Ft.

****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSI (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 210 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND MECA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LANE, MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

****IMPORTANT**** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ITW BCG, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN; ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI; OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AF&A) AND TPI. ITW BCG PLATES TO PLATES MADE OF 2018/16GA GA-17/55/19 ASH 6053 GRADE 40/60 (W, K/H,SS) GALV. STEEL. APPLY PLATES TO PLATES TO BE USED. ALL DESIGNATIONS, POSITION PER DRAWINGS 160A-2. ANY INSPECTION OF PLATES FOLLOWED BY TPI SHALL BE PER AMER 23 OF TPI. THE TRUSS COMPONENTS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENTS DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.



TC LL	20.0 PSF	REF	R8228- 48717
TC DL	10.0 PSF	DATE	10/09/08
BC DL	10.0 PSF	DRW	HCUSR8228 08283009
BC LL	0.0 PSF	HC-ENG	JB/AP
TOT.LD.	40.0 PSF	SEON-	107793
DUR.FAC.	1.25	FROM	AH
SPACING	24.0"	QREF-	1TLM8228202



110 mph wind, 15.04 ft mean hgt, ASCE 7-02, PART_ENC, bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL-5.0 psf, wind BC DL-5.0 psf. $I_w=1.00$ $G_{CPI}(+/-)=-0.55$

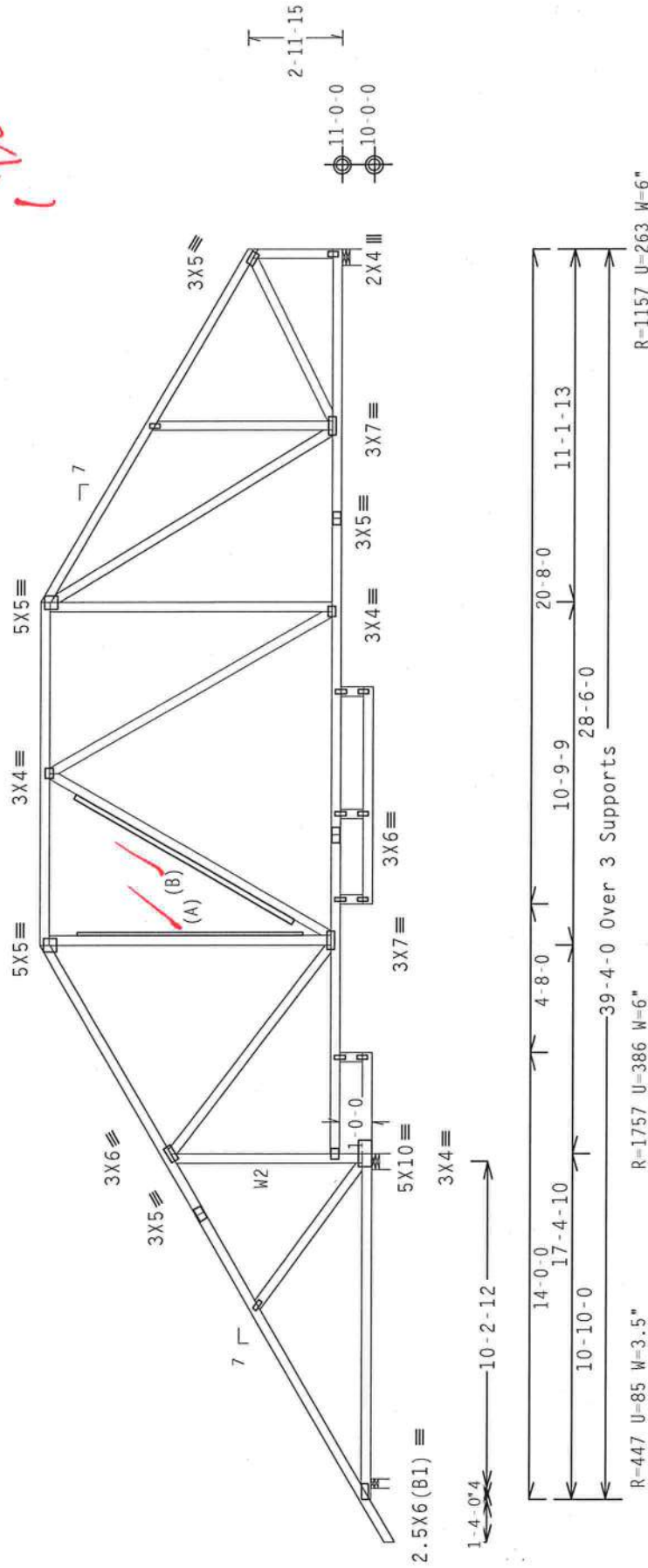
Wind reactions based on MWFRS pressures.

Right end vertical not exposed to wind pressure.

(A) 1x4 #3SRB SPF-S or better "T" brace. 80% length of web member. Attach with 8d Box or Gun (0.113"x2.5", min.) nails @ 6" OC.

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

See detail BCFILLER0207, TCFILLER0207 and RCPBCFIL for filler details. Laterally brace chord above/below filler @ 24" O.C. (or as designed) including a brace on chord directly above/below both ends of filler (if no rigid diaphragm exists at that point)



Note: All plates are 1.5X4 except as shown.

Design Crit: TPI-2002(STD)/FBC

PLT TYP. Wave

 $C_d/RT=1.00(1.25)/0.00$

OTY:1 EI / - / A / - / - / B / -

Scale = .1875"/Ft.

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

****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSI (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE), 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND MICA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LANE, MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

****IMPORTANT**** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ITW BEG, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN; ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH THIS DESIGN (FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES).
CORROSION RESISTANT PLATES ARE MADE OF 2018/2019 ALUMINUM ALLOY (NATIONAL DESIGN SPEC., BY AFAPA) AND TPI. ITW BEG DESIGNER'S CORROSION RESISTANT PLATES TO EACH FACE OF TRUSS AND UNLESS OTHERWISE LOCATED ON THIS DESIGN POSITION PER DRAWING NO. 2. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ABENX 43 OF TP11-2002 SEC. 3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ABSI/TP1 1 SEC. 2.

TC LL	20.0 PSF	REF	R822B- 48718
TC DL	10.0 PSF	DATE	10/09/08
BC DL	10.0 PSF	DRW	HCUR822B 08283016
BC LL	0.0 PSF	HC-ENG	JB/AP
TOT.LD.	40.0 PSF	SCQN-	107800
DUR.FAC.	1.25	FROM	AH
SPACING	24.0"	JREF-	1TLM8228Z02

2 COMPLETE TRUSSES REQUIRED

Nailing Schedule: (12d_Common_(0.148"x3.25",min.)_nails)

Top Chord: 1 Row @12.00'± o.c.

Bot Chord: 1 Row @12.00" o.c.

Webs : 1 Row @ 4" 0.c.c.

Use equal spacing between rows and stagger nails in each row to avoid splitting.

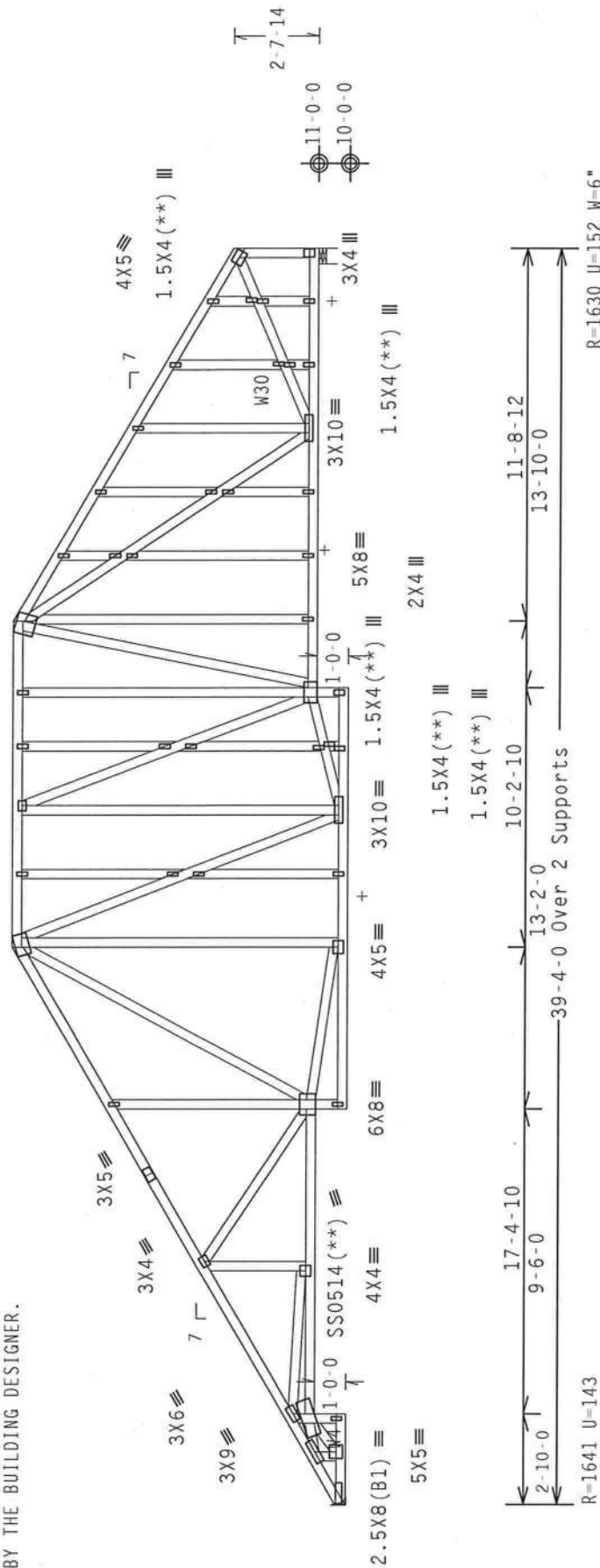
Wind reactions based on MWFRS pressures.

Right end vertical not exposed to wind pressure.

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

See DWGS A11030EC0207 & GBLLETIN0207 for more requirements.

THE BUILDING DESIGNER IS RESPONSIBLE FOR THE DESIGN OF THE ROOF AND CEILING DIAPHRAGMS, GABLE END SHEAR WALLS, AND SUPPORTING SHEAR WALLS. SHEAR WALLS MUST PROVIDE CONTINUOUS LATERAL RESTRAINT TO THE GABLE END. ALL CONNECTIONS TO BE DESIGNED BY THE BUILDING DESIGNER.



Note: All Plates Are 1.5X4 Except As Shown.

Design Crit: TPI-2002(STD)/FBC

 $Cq/RT=1.00(1.25)/0(0)$

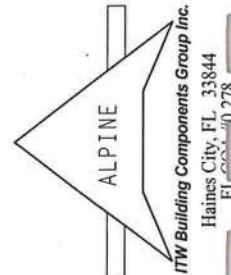
7.36.00

QTY:1 FI / - / 4 / - / - / R / -

$$\text{Scale} = 1875''/\text{ft}$$

****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. ALWAYS USE PROPER SAFETY INFORMATION. PUBLISHED BY THE CRUSS PLATE INSTITUTE, 630 NORTH LEE STREET, SUITE 319, ALEXANDRIA, VIRGINIA 22304. THIS CRUSS PLATE OF AMERICA, 2100 ENTERPRISE LANE, MADISON, WI 53719, FOR SAFETY PRACTICES PERTAINING TO PERFORMING THESE TRUSSES. UNLESS OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE PROPERLY ATTACHED RIGID END PLATES.

*****IMPORTANT**** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR, ITH BCG, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN; ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH THE FOLLOWING SPECIFICATIONS SHALL BE THE RESPONSIBILITY OF THE TRUSS CONSTRUCTION COMPANY. THE DESIGNER PERmits/11/1 SEC. 2.



TC LL	20.0	PSF	REF	R8228- 48719
TC DL	10.0	PSF	DATE	10/09/08
BC DL	10.0	PSF	DRW	HCUSR8228 08283052
BC LL	0.0	PSF	HC-ENG	JB/AP
TOT.LD.	40.0	PSF	SEQN-	107835
DUR.FAC.	1.25		FROM	AH
SPACING	24.0"		JREF-	1TLM8228Z02

110 mph wind, 15.04 ft mean hgt, ASCE 7-02, PART_ENC. bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. Iw=1.00 Gcpi(+/-)=0.55

Wind reactions based on MWFRS pressures.

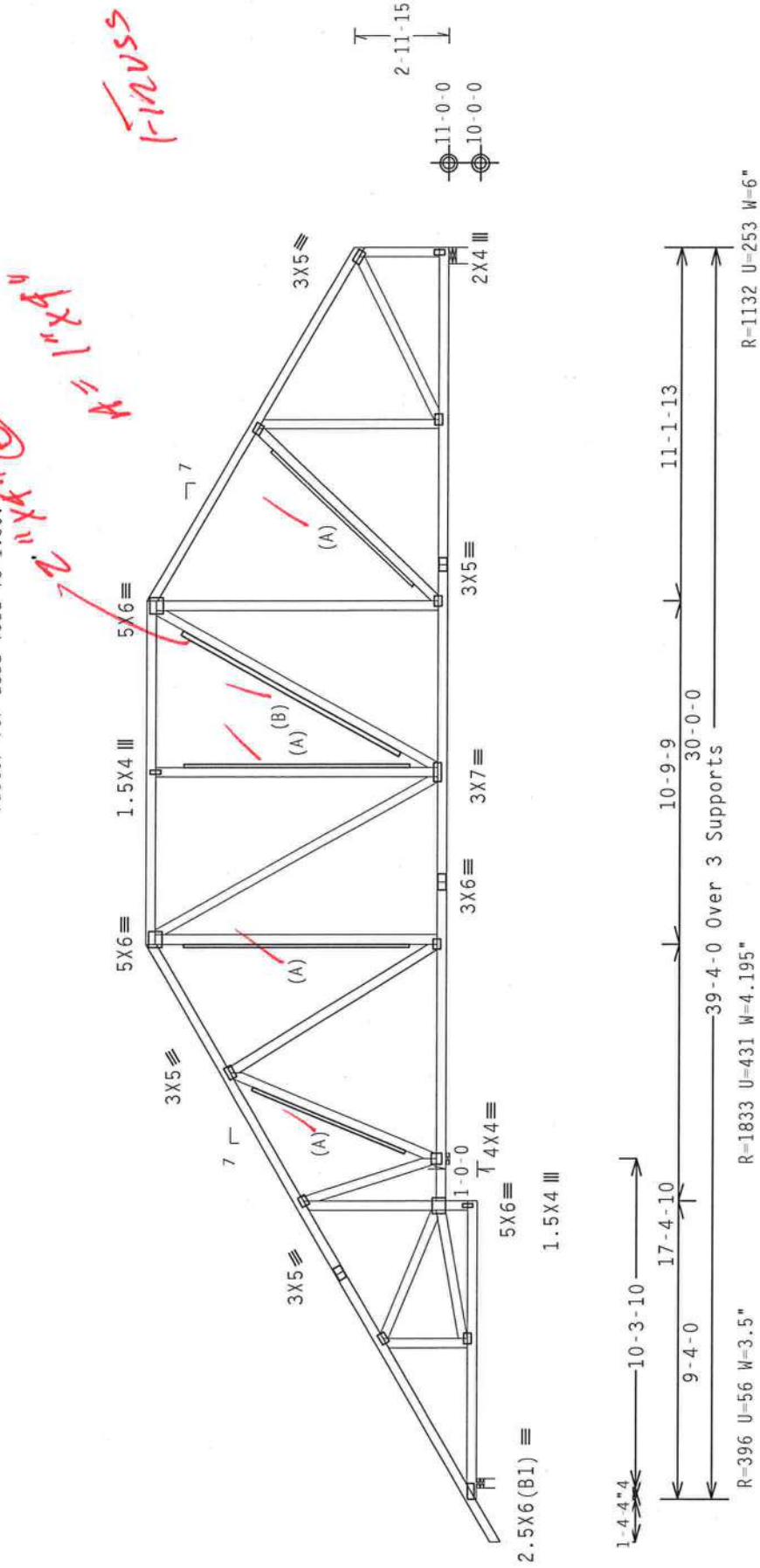
Right end vertical not exposed to wind pressure.

(B) 2x4 #3 or better "T" brace. 80% length of web member. Attach with 16d Box or Gun (0.135"x3.5", min.) nails @ 6" OC.

Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50. (1.6)

(A) 1x4 #3SRB SPF-S or better "T" brace. 80% length of web member. Attach with 8d Box or Gun (0.113"x2.5", min.) nails @ 6" OC.

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



Note: All Plates Are 3X4 Except As Shown.

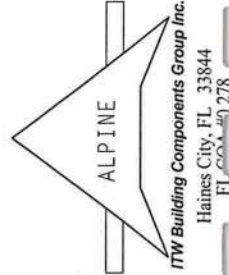
Design Crit: TPI-2002(STD)/FBC

$$Cq/RT = 1.00(1.25)/0(0)$$

QTY:1 FL/-/4/-/-/R/-

Scale = 1875"/Ft.

•WARNING• THUSSES REQUIRING CARE IN ERECTION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO RES1 (LOADING COMPONENT SAFETY INFORMATION), PUBLISHED BY THE STEEL INSTITUTE, 2000 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314 AND AISC TRUSS COUNCIL OF AMERICA, ENTERPRISE LANE, MADISON, WI, 53719 FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE PROPERLY ATTACHED RIGID CELLING.

[illegible]

Haines City, FL 33844
FL 33844 278

HES City, FL 33
FL 33044-278

HES City, FL 33
FL 33044-278

	Top	chord	2x4	SP	#2	Dense
	Bot	chord	2x4	SP	#2	Dense
		webs	2x4	SP	#3	

110 mph wind, 15.04 ft mean hgt, ASCE 7-02, PART_ENC. bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. $I_w=1.00$ Gcpi(+/-)=0.55

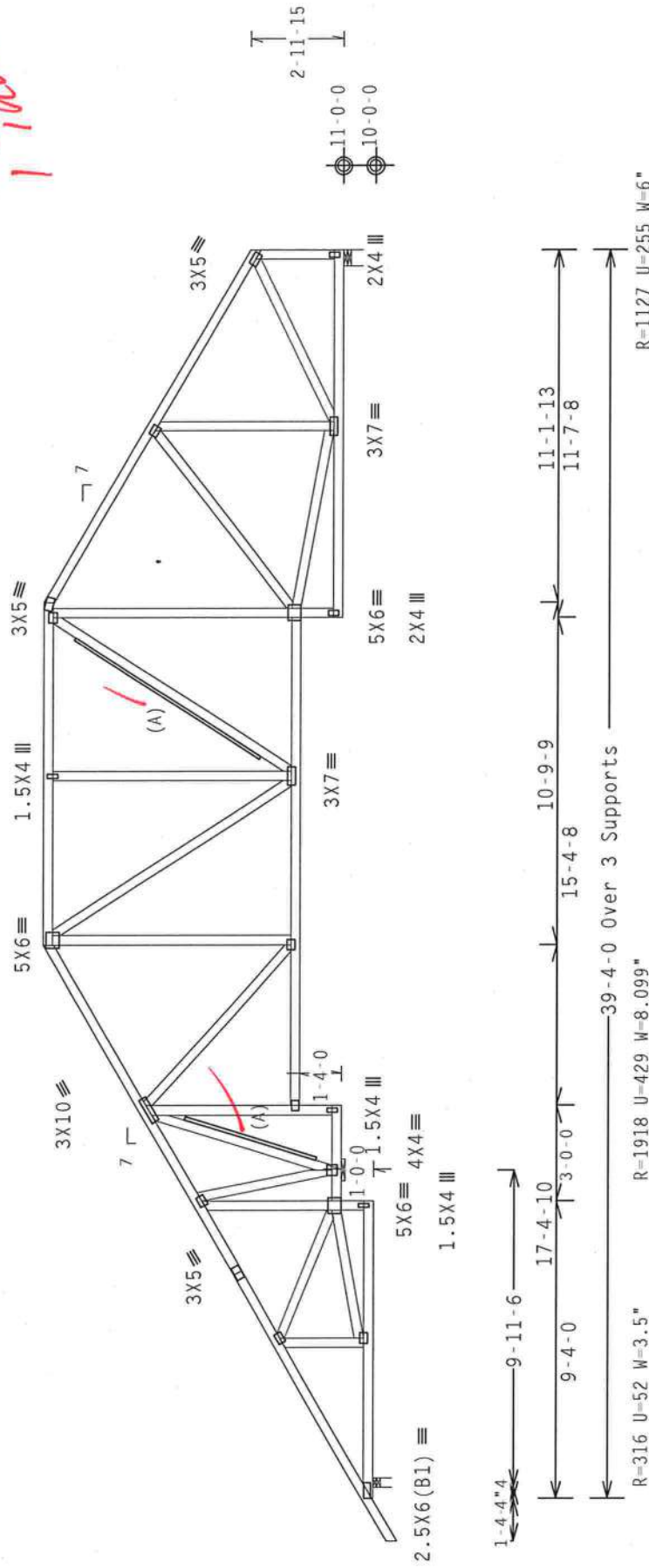
Roof overhang supports 2.00 psf soffit load.

(A) 1x4 #3SRB SPF-S or better "T" brace. 80% length of web member. Attach with 8d Box or Gun (0.113"x2.5", min.) nails @ 6" OC.

Right end vertical not exposed to wind pressure.

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.



Note: All Plates Are 3X4 Except As Shown.

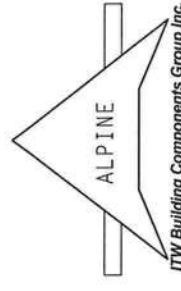
Design Crit: TPI-2002(STD)/FBC

PLT TYP. Wave

$$Ca/RT=1.00(1.25)/0(0)$$

02/04/2007 01:10

Scale = 1875" / Ft



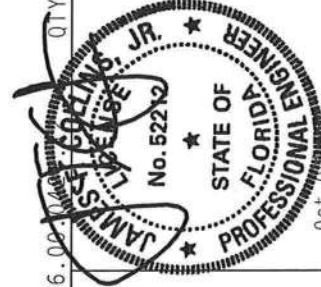
ITW Building Components Group Inc.
Haines City, FL 33844
FL COA #0278

•WARNING• TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. BEYOND BUILDING COMPONENT SAFETY INFORMATION, PUBLISHED BY THE CORROSION PREVENTION INSTITUTE, 218 NORTH LEXINGTON AVENUE, NEW YORK, N.Y. 10017, AND THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION, INC., 500 NORTH LAKE AVENUE, PITTSBURGH, PA. 15222, THERE ARE NO OTHER SAFETY FACTORS OR PRECAUTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID JOINT.

****IMPORTANT****-FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ITM BCG, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN; ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH THE SPECIFICATIONS, OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES.

DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF INDIA NATIONAL DESIGN SPEC. BY ACPDA AND TPI. CONNECTION PLATES ARE MADE OF 20/18/160A (4/1/55/93) LATHI A653 GRADE 40/50 (41, K/H, SSS) STEEL. PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE SPECIFIED ON THIS DESIGN, POSITION PER DRAWINGS 160A-2. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX 43 OF TPI-2002 SEC.3.

DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANNEX TPI SEC. 2.



TC LL	20.0	PSF	REF	R8228-	48721
TC DL	10.0	PSF	DATE	10/09/08	
BC DL	10.0	PSF	DRW	HCUSR8228	08283018
BC LL	0.0	PSF	HC - ENG	JB/AP	
TOT.LD.	40.0	PSF	SEGN -	107850	
DUR.FAC.	1.25		FROM	AH	
SPACING	24.0"		JREF -	1TM8228Z02	

(8-235--BRYAN ZECHER Model 1021 The Oaks -- , ** - B7)

Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense :B2 2x6 SP #2:
Webs 2x4 SP #3

Roof overhang supports 2.00 psf soffit load.

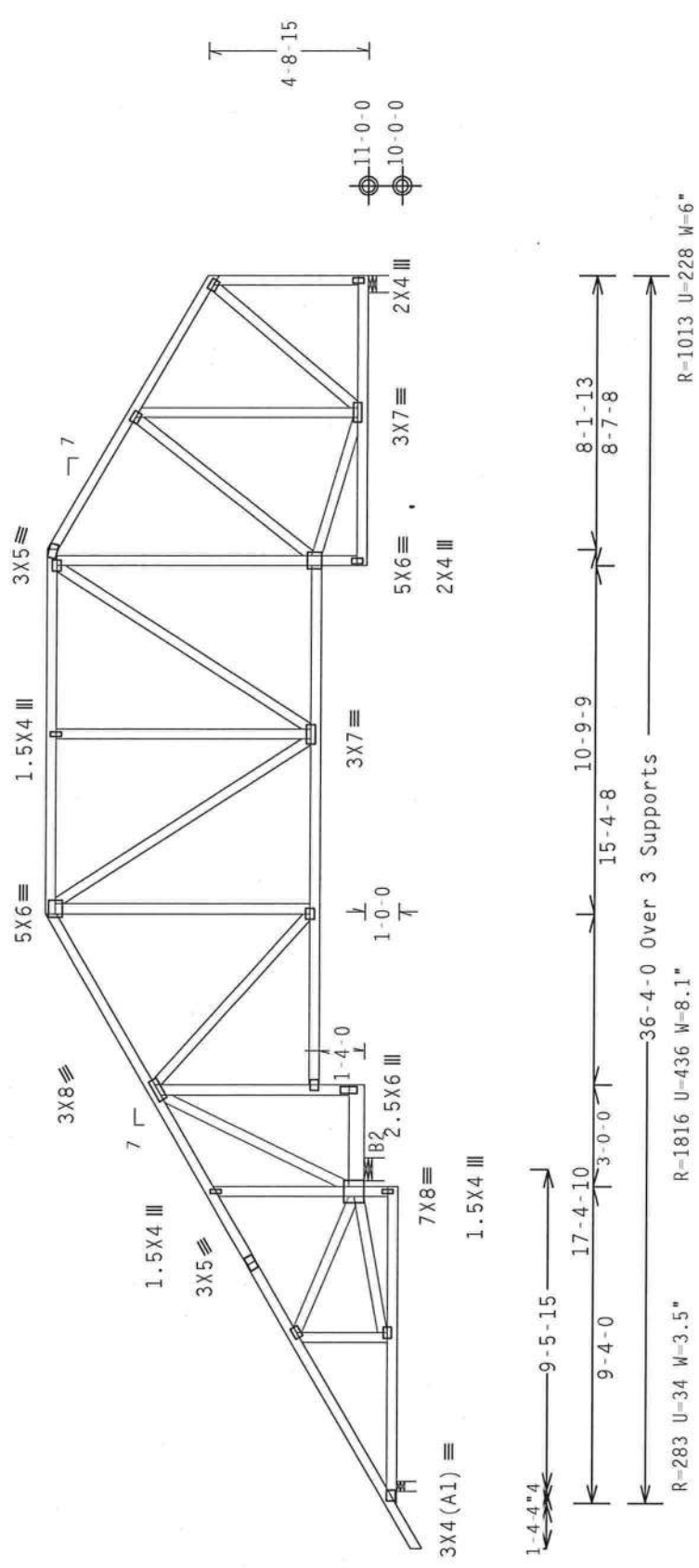
In lieu of structural panels use purlins to brace all flat TC @ 24" OC.

110 mph wind, 15.04 ft mean hgt, ASCE 7-02, PART-ENC. bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. $1w=1.00 G_{Cpi}(+/-)=0.55$

Wind reactions based on MWFRS pressures.

Right end vertical not exposed to wind pressure.

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

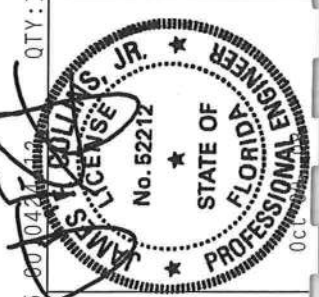


Note: All Plates Are 3X4 Except As Shown.

Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/0(0)

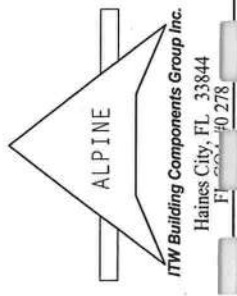
Scale = .1875" / Ft.

TC LL	20.0 PSF	REF	R8228- 48722
TC DL	10.0 PSF	DATE	10/09/08
BC DL	10.0 PSF	DRW	HCUSR8228 08283059
BC LL	0.0 PSF	HC-ENG	JB/AP
TOT.LD.	40.0 PSF	SEQN-	107860
DUR.FAC.	1.25	FROM	AH
SPACING	24.0"	JREF-	1TLM8228202



****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCST (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI, 10000 PLATE AVENUE, SUITE 312, ALEXANDRIA, VA, 22314 AND MICA (WOOD TRUSS COUNCIL OF AMERICA), 6300 ENTERPRISE LANE, MADISON, MI 48071 FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

****IMPORTANT**** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ITW BCG, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN; ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI; OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AIA/PFA) AND TPI. ITW BCG CONNECTOR PLATES ARE MADE OF 2018/16GA (40/55K) ASTM A653 GRADE 40/50 (40 K/55) GALV. STEEL. APPLY PLATES TO FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 16GA-2. PLATES INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEER. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEER. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER AISI/TPI 1 SEC. 2.

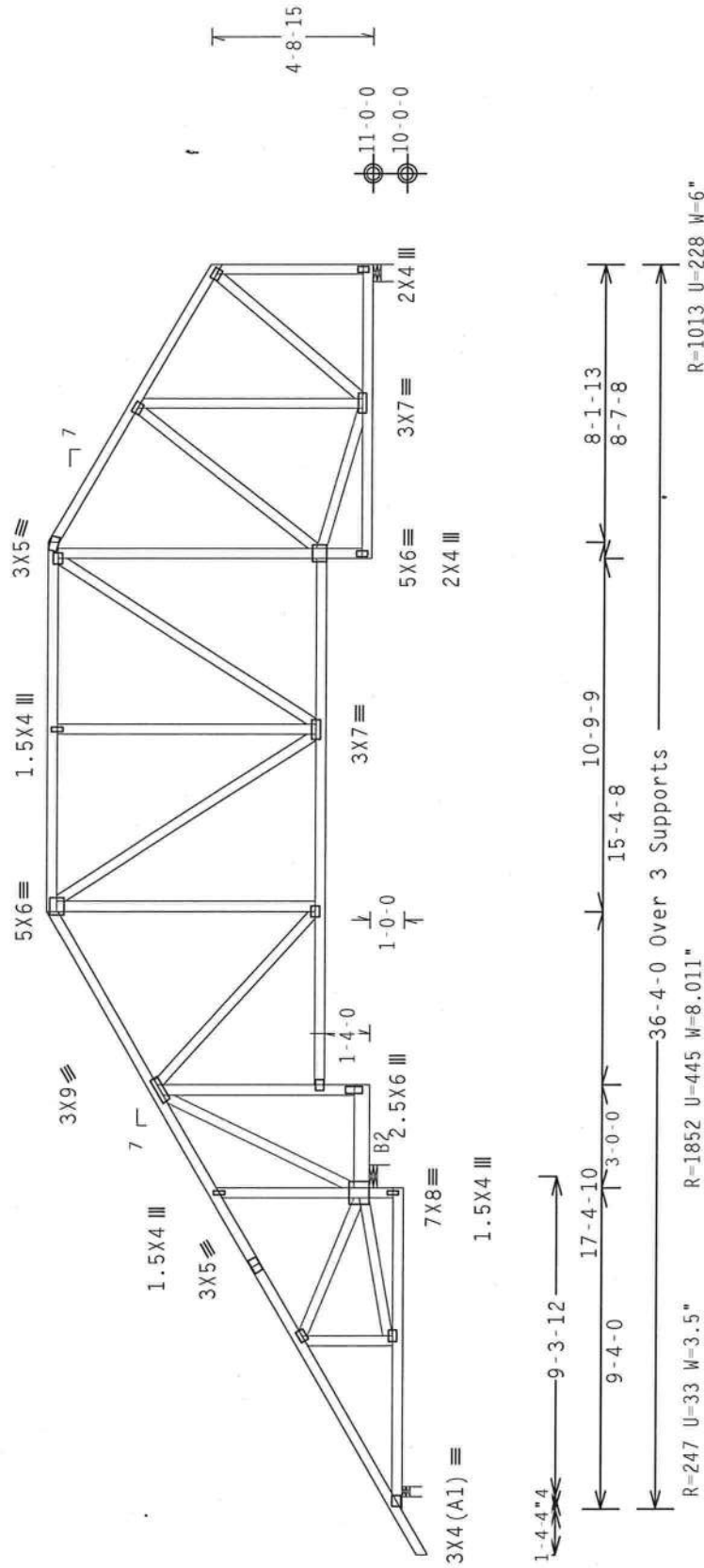


110 mph wind, 15.04 ft mean hgt., ASCE 7-02, PART. ENC. bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. $I_w=1.00$ GCFI(+/-)=-0.55

Wind reactions based on MWFRS pressures.

Right end vertical not exposed to wind pressure.

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



Note: All Plates Are 3X4 Except As Shown.

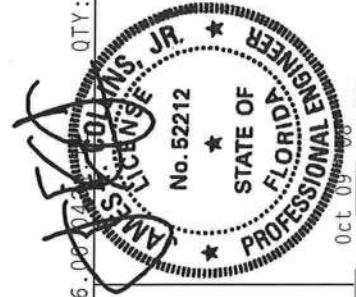
Design Crit: TPI-2002(STD)/FBC

 $Cq/RT=1.00(1.25)/0(0)$

QTY:1

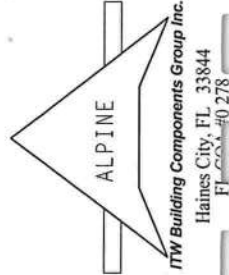
Scale = 1875"/Ft

TC LL	20.0	PSF	REF R8228- 48723
TC DL	10.0	PSF	DATE 10/09/08
BC DL	10.0	PSF	DRW HCU8R8228 08283019
BC LL	0.0	PSF	HC-ENG JB/AP
TOT.LD.	40.0	PSF	SEQN- 107867
DUR.FAC.	1.25		FROM AH
SPACING	24.0"		JREF- 1TLM8228Z02



****WARNING**** THUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BEST BUILDING COMPONENT SAFETY INSTITUTION, PUBLISHED BLUE PRINTS (CRUSS PLATE INSTITUTE, 6300 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA 22304) AND THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION, INC., 530 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA 22304) FOR THE LATEST RECOMMENDED PRACTICES FOR THE DESIGN, FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING OF THUSSES. UNLESS OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

****IMPORTANT**** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ITW BCG, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH ITW BCG'S DESIGN COMPONENTS WITH APPLICABLE PROVISIONS OF AISC (NATIONAL DESIGN SPEC. BY AISC) AND TPI. ITW BCG'S DESIGN COMPONENTS OR PLATES ARE MADE OF 201/19/16GA (41/552KA) ASTM A653 GRADE 40/60 (M. K7H-S5) GALV. STEEL. APPLY A MINIMUM OF 16 MILS OF ZINC COATING TO ALL EXPOSED SURFACES. UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-2. ANY INSPECTION OF PLATES FOLLOWED BY A SIGNATURE OF THE DESIGNER SHALL BE CONSIDERED A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY FOR THE DESIGN. THE RESPONSIBILITY OF THE DESIGNER. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER AMSI/TPI 1 SEC. 2.

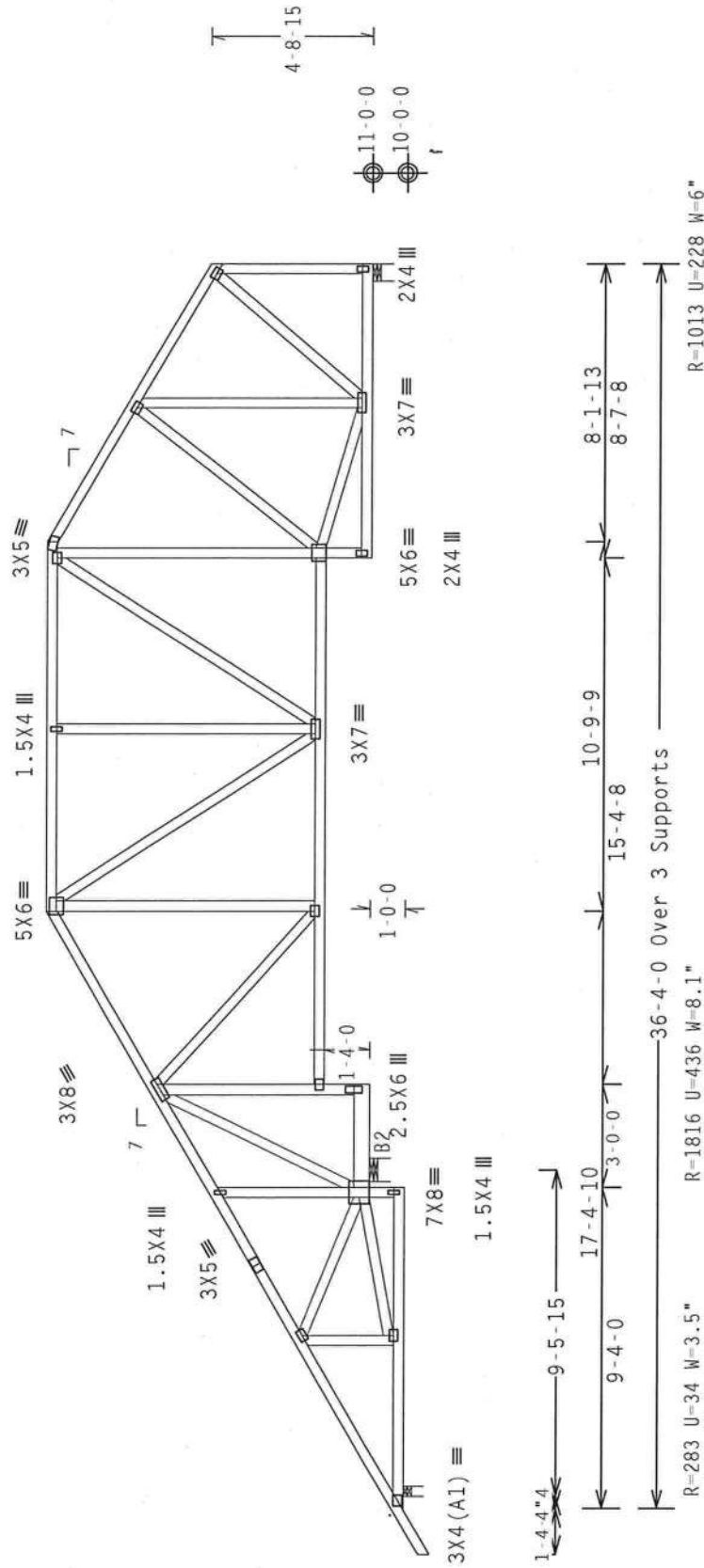


110 mph wind, 15.04 ft mean hgt., ASCE 7-02, PART. ENC. bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. lw=1.00 GCpi(+/-)=0.55

Wind reactions based on MWFRS pressures.

Right end vertical not exposed to wind pressure.

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



Note: All plates are 3x4 except as shown.

Design Crit: TPI-2002(STD)/FBC

PLT TYP. Wave

$$Cq/RT=1.00(1.25)/0(0)$$

QTY: 1 EL / - / 4 / - / - / R / -

Scale = 1875" / Ft

[illegible]

ALDINE

ITW Building Components Group Inc.

Haines City, FL 33844

FL 30,400 278

A circular seal for the State of Florida Professional Engineer. The outer ring contains the text "STATE OF FLORIDA" at the top and "PROFESSIONAL ENGINEER" at the bottom. The center of the seal is blank.

Oct 50 120

—

1110 mph wind. 15.04 ft mean hgt, ASCE 7-02, PART 5, ENC. bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. Iw=1.00 GCPI(+/-)=0.55

Wind reactions based on MwFRS pressures.

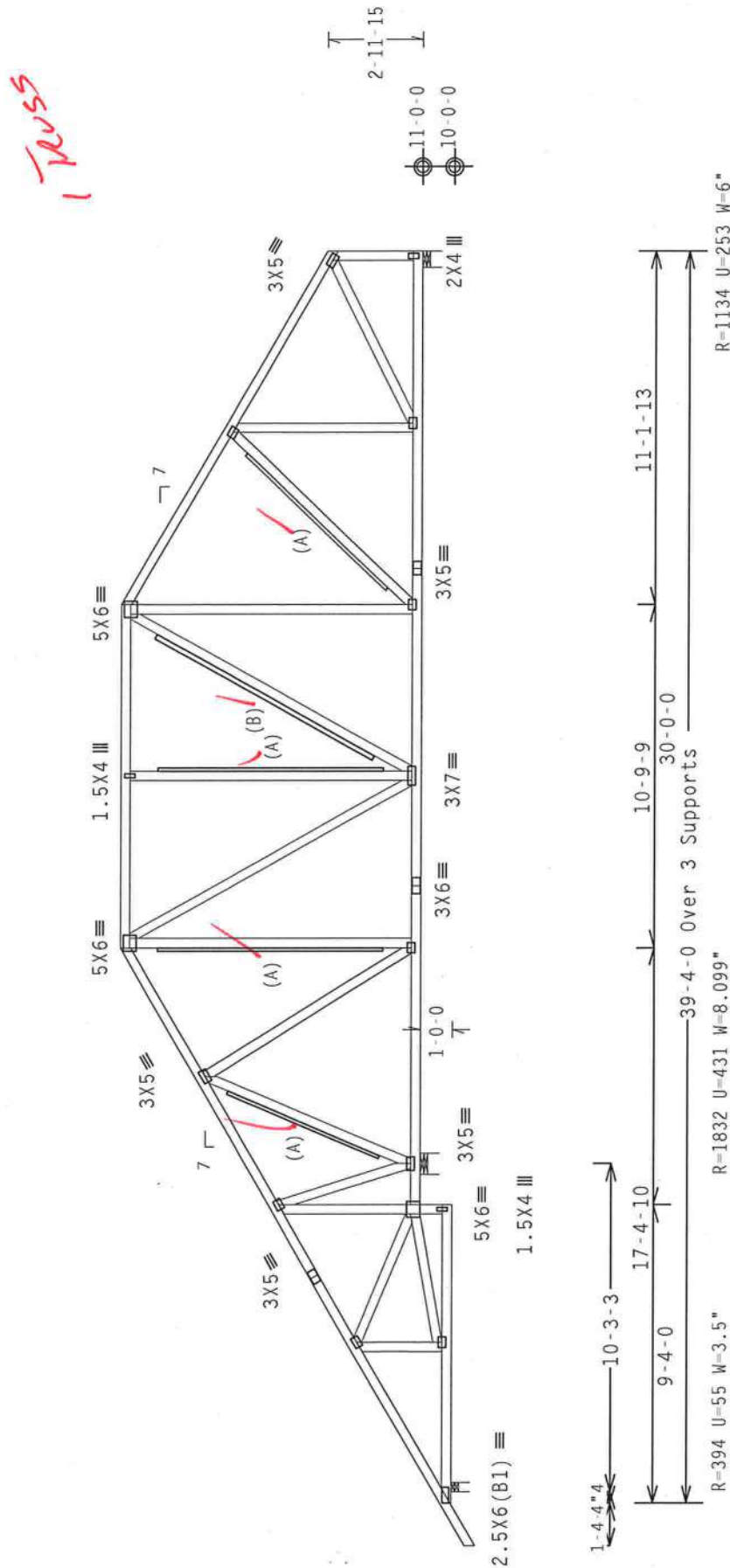
~~Right end vertical~~ not exposed to wind pressure.

(B) 2x4 #3 or better "T" brace. 80% length of web member. Attach with 16d Box or Gun (0.135"x3.5", min.) nails @ 6" OC.

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

(A) 1x4 #3SRB SPF-S or better "T" brace. 80% length of web member. Attach with 8d Box or Gun (0.113"x2.5", min.) nails @ 6" OC.

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



Note: All Plates Are 3X4 Except As Shown.

Design Crit: TPI-2002(STD)/FBC

Scale = .1875" / Ft.

QTY:1 FL/-/4/-/-/R/-

00. *Thymus*

 $Cq/RT=1.00(1.25)/0(0) \quad 7.$

—
5
—
3
—
5
—
5
—
5

PLT TYP. Wave

WARNING: TRUSSES REQUIRE EXTENSIVE CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BEST BUILDING COMPONENT SAFETY INFORMATION, PUBLISHED BY THE CRUISE PLATE INSTITUTE, 219 NORTH LEE STREET, SUITE 312, MIAMI, FL 33134 AND AISC (AMERICAN INSTITUTE OF STEEL CONSTRUCTION), 500 NORTH LEE STREET, SUITE 312, MIAMI, FL 33134. TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LANE, SUITE 312, MIAMI, FL 33219 FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE PROPERLY ATTACHED RIGID BRACING.

REF R8228- 48726
DATE 10/09/08

TC LL	20.0 PSF
TC DL	10.0 PSF

., HANDLING, SHIPPING, INSTALLING AND BRACING.
PUBLISHED BY TPI TRUSS PLATE INSTITUTE, 218
METCA GOOD TRUSS COUNCIL OF AMERICA, 6300
ES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS
ED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE

****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FA
REFER TO BC51 (BUILDING COMPONENT SAFETY INFO)
NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22304
ENTERPRISE LANE, MADISON, WI 53719) FOR SAFETY
OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPER
A PROPERLY ATTACHED RIGID CEILING.

<

*****IMPORTANT**** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ITN BCG, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN; ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TP1; OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES.

CONNECTIONS CONFORM WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC, 96 AFPA) AND TP1.

CONNECTOR PLATES ARE MADE OF 2018/196GA 14/41/55/7K83 ASTM A653 GRADE 470/60 (14, K/H-55) GALV. STEEL. APPLY 1/2" MIN. PAINT TO EXPOSED SURFACES OF TRUSS CHORDS AND END JOINTS.

IF ANY INSPECTION OF PLATES FOLLOWED BY TP1 SHALL BE PER ANNE 32 OF TP1, 2022.

DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT DESIGN SHOWN.

THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANNE 32 OF TP1 1 SEC. 2.

PRW	HCUSR8228	0828302
C-ENG JB/AP		
EQN-	107886	
ROM	AH	
PRFE-	1TIM8228702	

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

INSTALLATION CONTRACTOR, ITW BEG SHALL NOT ATTEMPT TO BUILD THE TRUSS IN COMPLIANCE WITH ACTING OF THUSSES, BY AFAPM) AND TP1. ITW BEG SHALL DESIGN SPEC, K/JH-SS) GALV. STEEL, APPLY A653 GRADE 40/60 (W, K/JH-SS) GALV. STEEL, APPLY THIS ON THIS DESIGN, POSITION PER DRAWINGS 160A-2, 160B-2, 160C-2, 160D-2, 160E-2, 160F-2, 160G-2, 160H-2, 160I-2, 160J-2, 160K-2, 160L-2, 160M-2, 160N-2, 160O-2, 160P-2, 160Q-2, 160R-2, 160S-2, 160T-2, 160U-2, 160V-2, 160W-2, 160X-2, 160Y-2, 160Z-2, 160AA-2, 160AB-2, 160AC-2, 160AD-2, 160AE-2, 160AF-2, 160AG-2, 160AH-2, 160AI-2, 160AJ-2, 160AK-2, 160AL-2, 160AM-2, 160AN-2, 160AO-2, 160AP-2, 160AQ-2, 160AR-2, 160AS-2, 160AT-2, 160AU-2, 160AV-2, 160AW-2, 160AX-2, 160AY-2, 160AZ-2, 160BA-2, 160BB-2, 160BC-2, 160BD-2, 160BE-2, 160BF-2, 160BG-2, 160BH-2, 160BI-2, 160BJ-2, 160BK-2, 160BL-2, 160BM-2, 160BN-2, 160BO-2, 160BP-2, 160BQ-2, 160BR-2, 160BS-2, 160BT-2, 160BU-2, 160BV-2, 160BW-2, 160BX-2, 160BY-2, 160BZ-2, 160CA-2, 160CB-2, 160CC-2, 160CD-2, 160CE-2, 160CF-2, 160CG-2, 160CH-2, 160CI-2, 160CJ-2, 160CK-2, 160CL-2, 160CM-2, 160CN-2, 160CO-2, 160CP-2, 160CQ-2, 160CR-2, 160CS-2, 160CT-2, 160CU-2, 160CV-2, 160CW-2, 160CX-2, 160CY-2, 160CZ-2, 160DA-2, 160DB-2, 160DC-2, 160DD-2, 160DE-2, 160DF-2, 160DG-2, 160DH-2, 160DI-2, 160DJ-2, 160DK-2, 160DL-2, 160DM-2, 160DN-2, 160DO-2, 160DP-2, 160DQ-2, 160DR-2, 160DS-2, 160DT-2, 160DU-2, 160DV-2, 160DW-2, 160DX-2, 160DY-2, 160DZ-2, 160EA-2, 160EB-2, 160EC-2, 160ED-2, 160EE-2, 160EF-2, 160EG-2, 160EH-2, 160EI-2, 160EJ-2, 160EK-2, 160EL-2, 160EM-2, 160EN-2, 160EO-2, 160EP-2, 160EQ-2, 160ER-2, 160ES-2, 160ET-2, 160EU-2, 160EV-2, 160EW-2, 160EX-2, 160EY-2, 160EZ-2, 160FA-2, 160FB-2, 160FC-2, 160FD-2, 160FE-2, 160FF-2, 160FG-2, 160FH-2, 160FI-2, 160FJ-2, 160FK-2, 160FL-2, 160FM-2, 160FN-2, 160FO-2, 160FP-2, 160FQ-2, 160FR-2, 160FS-2, 160FT-2, 160FU-2, 160FV-2, 160FW-2, 160FX-2, 160FY-2, 160FZ-2, 160GA-2, 160GB-2, 160GC-2, 160GD-2, 160GE-2, 160GF-2, 160GG-2, 160GH-2, 160GI-2, 160GJ-2, 160GK-2, 160GL-2, 160GM-2, 160GN-2, 160GO-2, 160GP-2, 160GQ-2, 160GR-2, 160GS-2, 160GT-2, 160GU-2, 160GV-2, 160GW-2, 160GX-2, 160GY-2, 160GZ-2, 160HA-2, 160HB-2, 160HC-2, 160HD-2, 160HE-2, 160HF-2, 160HG-2, 160HH-2, 160HI-2, 160HJ-2, 160HK-2, 160HL-2, 160HM-2, 160HN-2, 160HO-2, 160HP-2, 160HQ-2, 160HR-2, 160HS-2, 160HT-2, 160HU-2, 160HV-2, 160HW-2, 160HX-2, 160HY-2, 160HZ-2, 160IA-2, 160IB-2, 160IC-2, 160ID-2, 160IE-2, 160IF-2, 160IG-2, 160IH-2, 160II-2, 160IJ-2, 160IK-2, 160IL-2, 160IM-2, 160IN-2, 160IO-2, 160IP-2, 160IQ-2, 160IR-2, 160IS-2, 160IT-2, 160IU-2, 160IV-2, 160IW-2, 160IX-2, 160IY-2, 160IZ-2, 160JA-2, 160JB-2, 160JC-2, 160JD-2, 160JE-2, 160JF-2, 160JG-2, 160JH-2, 160JI-2, 160JJ-2, 160JK-2, 160JL-2, 160JM-2, 160JN-2, 160JO-2, 160JP-2, 160JQ-2, 160JR-2, 160JS-2, 160JT-2, 160JU-2, 160JV-2, 160JW-2, 160JX-2, 160JY-2, 160JZ-2, 160KA-2, 160KB-2, 160KC-2, 160KD-2, 160KE-2, 160KF-2, 160KG-2, 160KH-2, 160KI-2, 160KJ-2, 160KK-2, 160KL-2, 160KM-2, 160KN-2, 160KO-2, 160KP-2, 160KQ-2, 160KR-2, 160KS-2, 160KT-2, 160KU-2, 160KV-2, 160KW-2, 160KX-2, 160KY-2, 160KZ-2, 160LA-2, 160LB-2, 160LC-2, 160LD-2, 160LE-2, 160LF-2, 160LG-2, 160LH-2, 160LI-2, 160LJ-2, 160LK-2, 160LL-2, 160LM-2, 160LN-2, 160LO-2, 160LP-2, 160LQ-2, 160LR-2, 160LS-2, 160LT-2, 160LU-2, 160LV-2, 160LW-2, 160LX-2, 160LY-2, 160LZ-2, 160MA-2, 160MB-2, 160MC-2, 160MD-2, 160ME-2, 160MF-2, 160MG-2, 160MH-2, 160MI-2, 160MJ-2, 160MK-2, 160ML-2, 160MM-2, 160MN-2, 160MO-2, 160MP-2, 160MQ-2, 160MR-2, 160MS-2, 160MT-2, 160MU-2, 160MV-2, 160MW-2, 160MX-2, 160MY-2, 160MZ-2, 160NA-2, 160NB-2, 160NC-2, 160ND-2, 160NE-2, 160NF-2, 160NG-2, 160NH-2, 160NI-2, 160NJ-2, 160NK-2, 160NL-2, 160NM-2, 160NN-2, 160NO-2, 160NP-2, 160NQ-2, 160NR-2, 160NS-2, 160NT-2, 160NU-2, 160NV-2, 160NW-2, 160NX-2, 160NY-2, 160NZ-2, 160OA-2, 160OB-2, 160OC-2, 160OD-2, 160OE-2, 160OF-2, 160OG-2, 160OH-2, 160OI-2, 160OJ-2, 160OK-2, 160OL-2, 160OM-2, 160ON-2, 160OO-2, 160OP-2, 160OQ-2, 160OR-2, 160OS-2, 160OT-2, 160OU-2, 160OV-2, 160OW-2, 160OX-2, 160OY-2, 160OZ-2, 160PA-2, 160PB-2, 160PC-2, 160PD-2, 160PE-2, 160PF-2, 160PG-2, 160PH-2, 160PI-2, 160PJ-2, 160PK-2, 160PL-2, 160PM-2, 160PN-2, 160PO-2, 160PP-2, 160PQ-2, 160PR-2, 160PS-2, 160PT-2, 160PU-2, 160PV-2, 160PW-2, 160PX-2, 160PY-2, 160PZ-2, 160QA-2, 160QB-2, 160QC-2, 160QD-2, 160QE-2, 160QF-2, 160QG-2, 160QH-2, 160QI-2, 160QJ-2, 160QK-2, 160QL-2, 160QM-2, 160QN-2, 160QO-2, 160QP-2, 160QQ-2, 160QR-2, 160QS-2, 160QT-2, 160QU-2, 160QV-2, 160QW-2, 160QX-2, 160QY-2, 160QZ-2, 160RA-2, 160RB-2, 160RC-2, 160RD-2, 160RE-2, 160RF-2, 160RG-2, 160RH-2, 160RI-2, 160RJ-2, 160RK-2, 160RL-2, 160RM-2, 160RN-2, 160RO-2, 160RP-2, 160RQ-2, 160RR-2, 160RS-2, 160RT-2, 160RU-2, 160RV-2, 160RW-2, 160RX-2, 16

****IMPORTANT**** FURNISH A COPY OF THIS DESIGN BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN SPECIFICATION. THE DESIGNER SHALL BE RESPONSIBLE FOR THE DESIGN OF THE FABRICATING, HANDLING, SHIPPING, INSTALLATION, AND MAINTENANCE OF THE CONNECTOR. THE CONNECTOR PLATES ARE MADE OF 20/18/16GA (0.0155 IN) ALUMINUM PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS SHALL BE TO THE CENTER OF THE PLATE. AN INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE REQUIRED TO ACCEPTANCE OF PROFESSIONAL ENGINEER. DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEER. THE SUBMITTAL AND USE OF THIS DESIGN SHALL BE THE SOLE RESPONSIBILITY OF THE BUILDING DESIGNER PER AIA/CP1 1 SEC.,

ALPINE
ITW Building Components
Haines City, FL
FL COA 0003

1110 mph wind, 15.43 ft mean hgt, ASCE 7-02, PART_ENC. bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC D=5.0 psf, wind BC D=5.0 psf. $I_w=1.0$ GCpi(+/-)=0.55

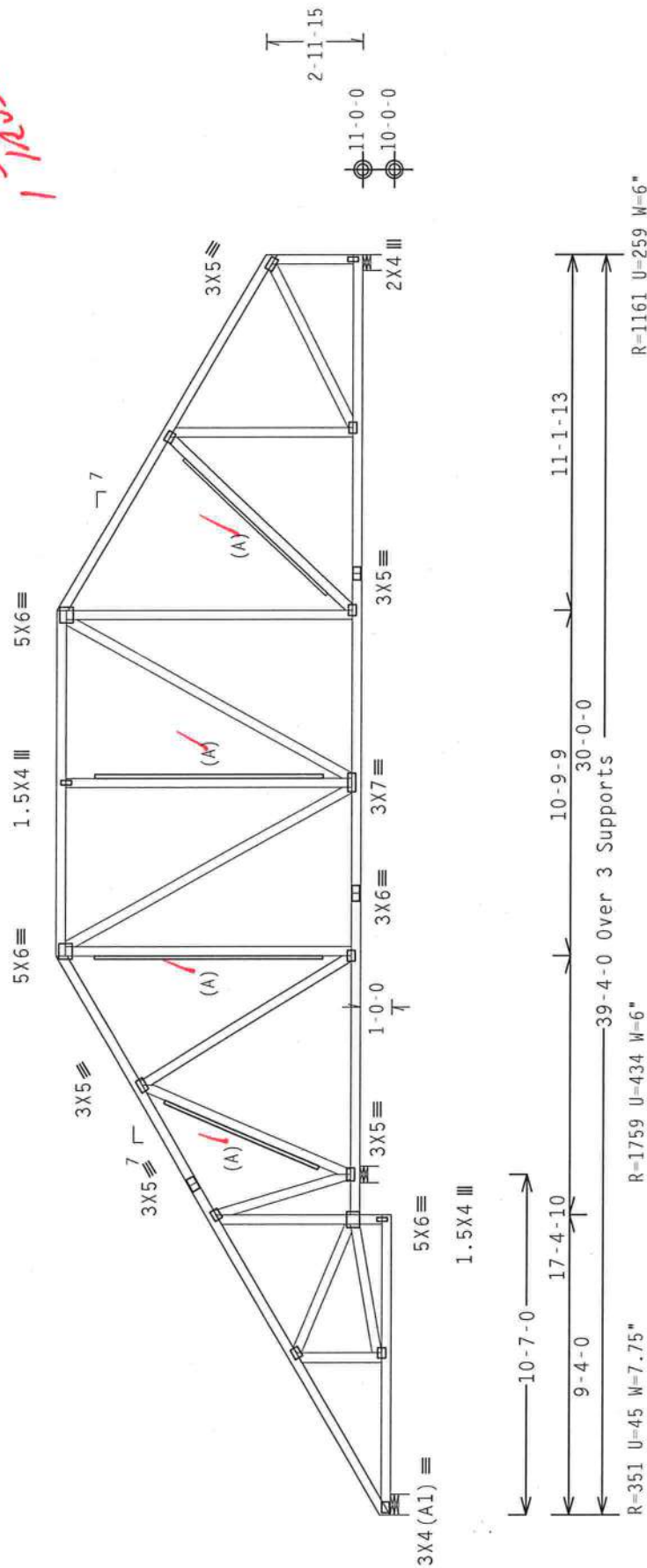
Wind reactions based on MWFRS pressures.

Right end vertical not exposed to wind pressure.

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

(A) 1x4 #3SRB SPF-S or better "T" brace. 80% length of web member. Attach with 8d Box or Gun (0.113"x2.5", min.) nails @ 6" OC.

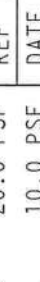
In lieu of structural panels use purlins to brace all flat TC @ 24" OC.



Note: All Plates Are 3X4 Except As Shown.

Design Crit: TPI-2002(STD)/FBC

PLT TYP. Wave



ITW Building Components Group Inc.
Haines City, FL 33844
FL 00040-2028

****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING, REFER TO BCST (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE), 6300 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND WCA (WOOD TRUSS COUNCIL OF AMERICA), 6300 ENTERPRISE LANE, MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

****IMPORTANT**** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ITW BCG, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN; ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI; OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES.

DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC., BY AF&PA) AND TPI. 1TM BCG CONNECTION PLATES ARE MADE OF 2018/18/16GA (W/J/SS/K) ASTM A653 GRADE 40/60 (W, K/H/SS) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-Z. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.



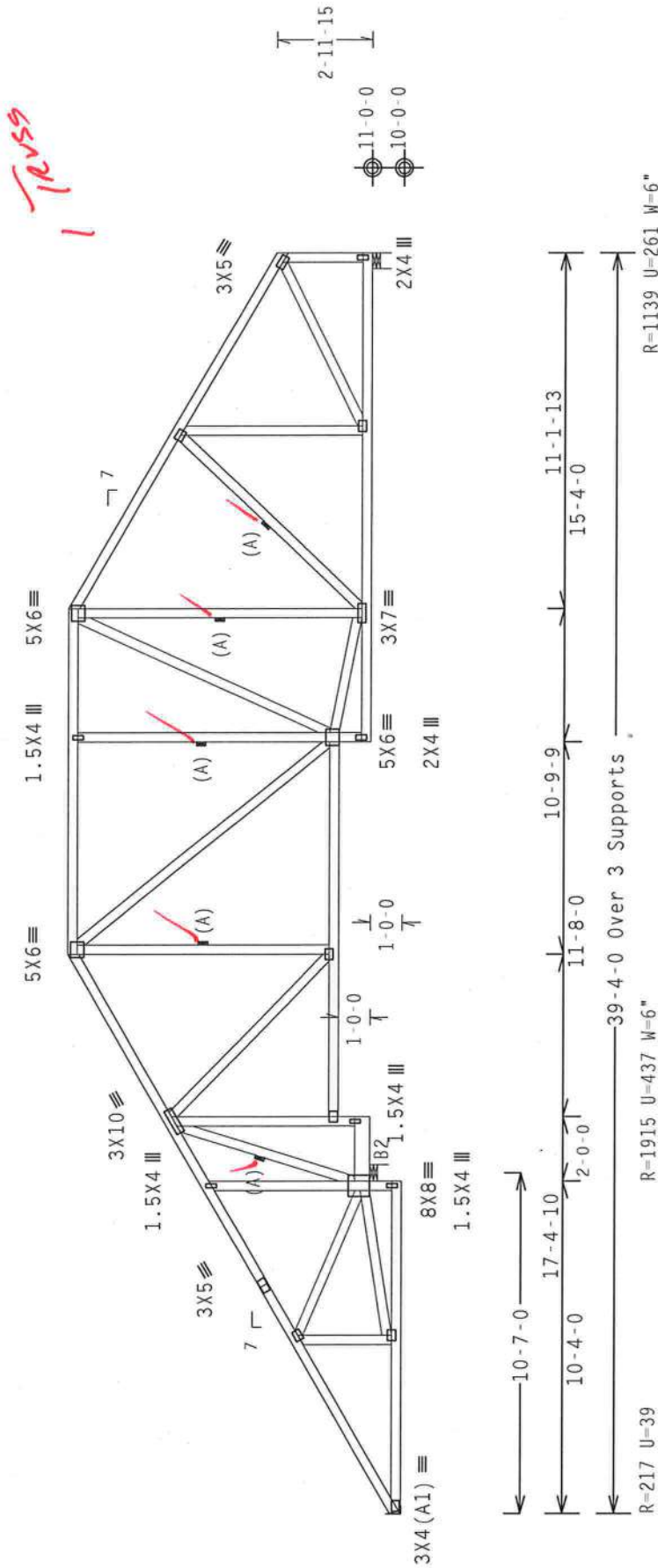
TC LL	20.0	PSF	REF R8228-	48727
TC DL	10.0	PSF	DATE	10/09/08
BC DL	10.0	PSF	DRW HCUR8228	08283024
BC LL	0.0	PSF	HC-ENG JB/AP	
TOT.LD.	40.0	PSF	SEQN-	107891
DUR.FAC.	1.25		FROM AH	
SPACING	24.0"		JREF-	1TLM8228Z02

110 mph wind, 15.43 ft mean ht, ASCE 7-02, PART. ENC. bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. $I_w=1.00$ $G_{CPI}(\psi/-)=0.55$

Wind reactions based on MWFRS pressures.

Right end vertical not exposed to wind pressure.

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



Note: All Plates Are 3X4 Except As Shown.

Design Crit: TPI-2002(STD)/FBC

$$Cq/RT=1.00(1.25)/0(0)$$

Scale = 1875"/Ft.

QTY:1 FL/-/4/-/-/R/-

00.043

7.36.

15

 $0(0)$

25) /

00(1)

 $T=1.$ Cq/R

;

55
56

23

Wave

—yp.

PLT T

TC LL	20.0 PSF	REF	R8228- 48728
TC DL	10.0 PSF	DATE	10/09/08
BC DL	10.0 PSF	DRW	HCUSR8228 0828302
BC LL	0.0 PSF	HC-ENG	JB/AP
TOT.LD.	40.0 PSF	SEQN-	107901
DUR.FAC.	1.25	FROM	AH
SPACING	24.0"	JREF-	1TLM8228Z02



WARNING: TRUSSES REQUIRE EXTREME CARE IN ERECTION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSI TRUSSING COMPONENT SAFETY INFORMATION, PUBLISHED BY THE NATIONAL INSTITUTE, 2100 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314, AND WCA (WOOD TRUSS COUNCIL OF AMERICA), 100 ENTERPRISE LANE, MADISON, WI 53719, FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE PROPERLY ATTACHED RIGID CEILING.

****IMPORTANT****FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ITW BCG, INC., SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN; ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH DPMI; OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES.

DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF SDS (NATIONAL DESIGN SPEC. BY AISC) AND TPI.
CONNECTOR PLATES ARE MADE OF 20/18/16GA (N.H./SS/K) ASTM A653 GRADE 40/60 (N. K/H/SS) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND UNLESS OTHERWISE LOCATED ON THE SPEC. POSITION. DRAWINGS 160A-2

ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A.3 OF TP13-2002 SEC.3.
DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER. SEE ANNEX A.10.1 SEC. 9.

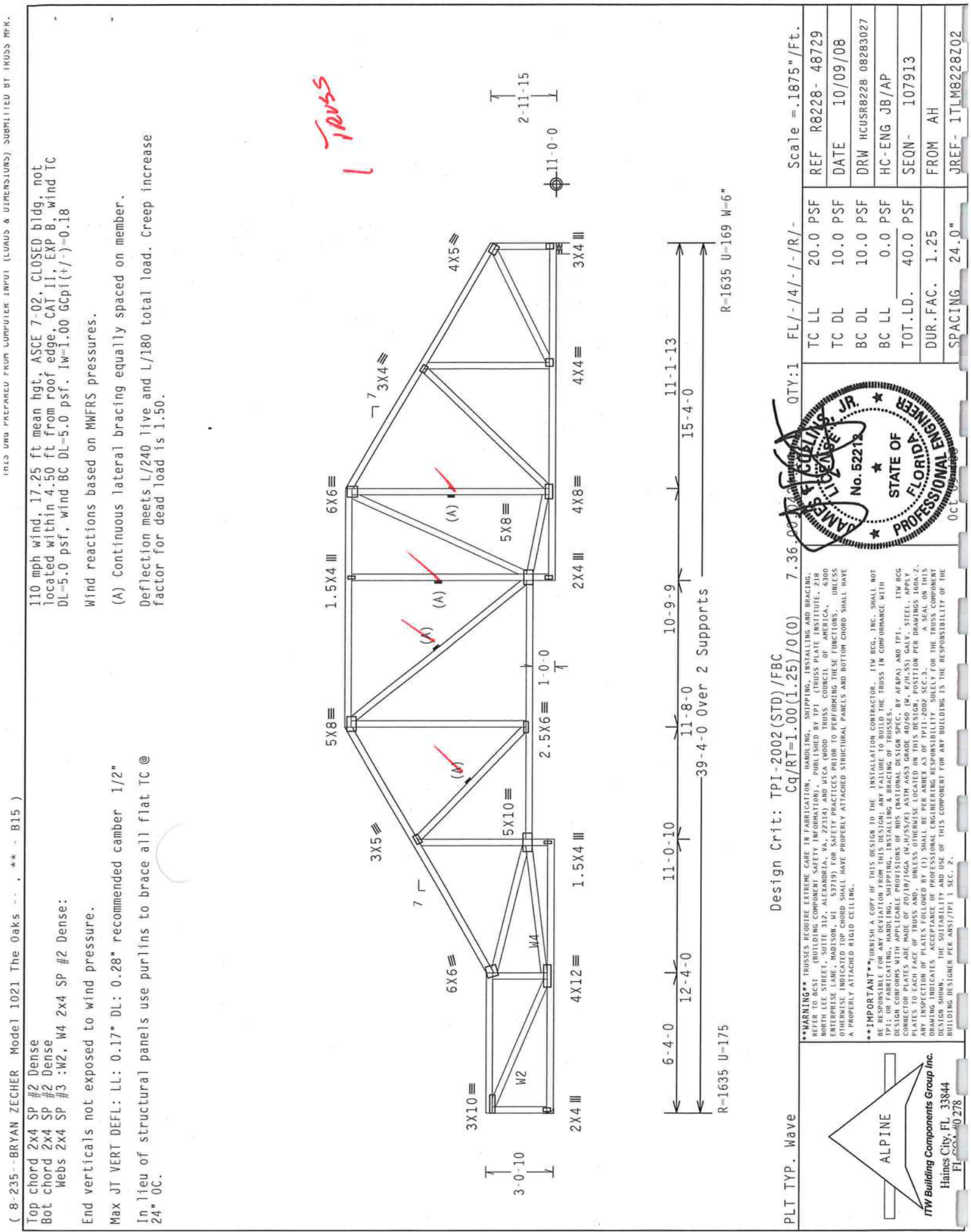
BUILDING DESIGNER PER ANSI/ISO 1 SEC. 2.

ALPINE

ITW Building Components Group Inc.

Haines City, FL 33844
FL COA #0 278





(8-235--BRYAN ZECHER Model 1021 The Oaks -- , ** - B15)

Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3 :W2, W4 2x4 SP #2 Dense:

End verticals not exposed to wind pressure.

Max JT VERT DEFL: LL: 0.17" DL: 0.28" recommended camber 1/2"

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

110 mph wind, 17.25 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf, 1w=1.00 Gcpi(+/-)=0.18

Wind reactions based on MMFRS pressures.

(A) Continuous lateral bracing equally spaced on member.

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

Scale = .1875" / Ft.

REF R8228- 48729

DATE 10/09/08

DRW HCUSR8228 08283027

HC-ENG JB/AP

SEQN- 107913

FROM AH

JREF- 1TLM8228Z02

PLT TYP. Wave

Design Crit: TPI-2002(STD)/FBC

Cq/RT=1.00(1.25)/0(0)

7.36.00

QTY:1

FL/-/4/-/R/-

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"

ALPINE

ITW Building Components Group Inc.

Haines City, FL 33844

FL 33844

110 mph wind, 16.69 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf, $I_w=1.00$ GCPI(+/-)=0.18

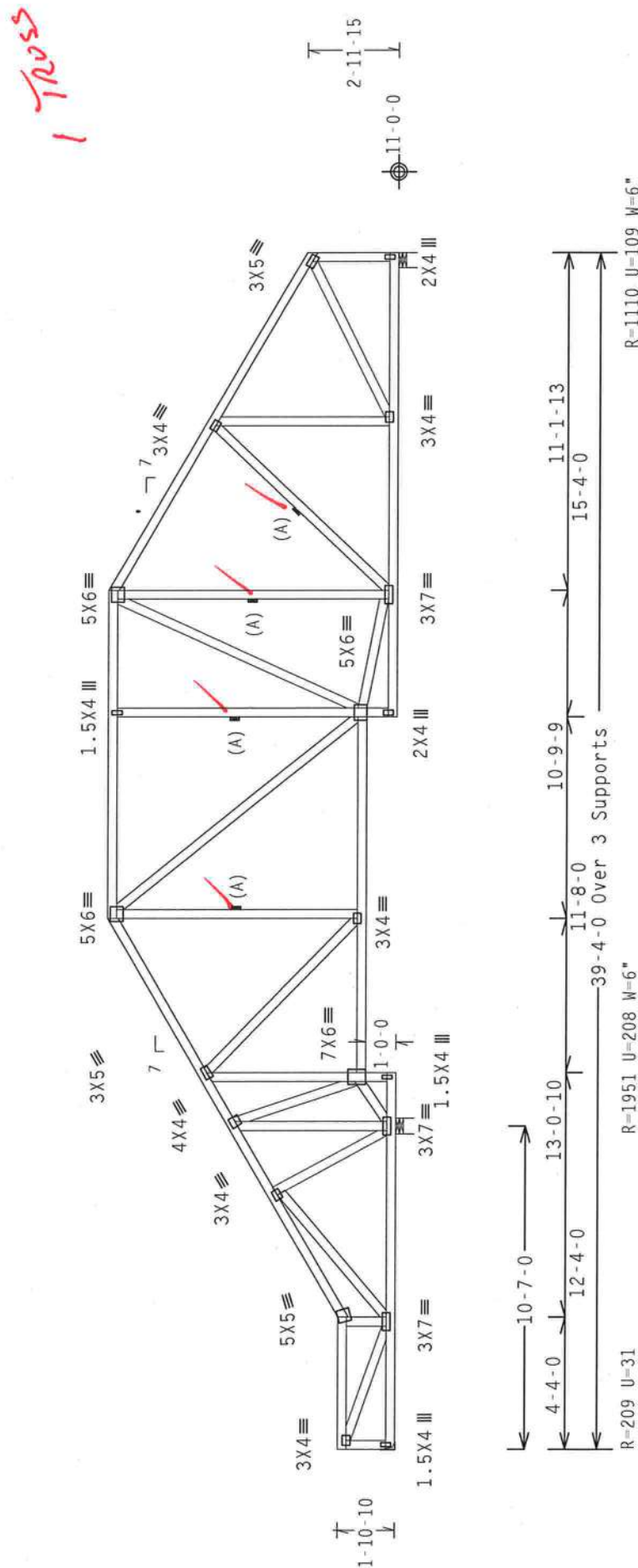
(A) Continuous lateral bracing equally spaced on member.

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

Wind reactions based on MWFRS pressures.

Right end vertical not exposed to wind pressure.

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

Design Crit: TPI-2002(STD)/FBC
Ca/RT=1.00(1.25)/

PLT TYP. Wave

Scale = .1875"/Ft.

QTY:1 FL/-/4/-/-/R/-

00 42

 $Cq/RT=1.00(1.25)/0(0)$ 7

Design Critic

PLT TYP. Wave

REF	R8228- 48730
DATE	10/09/08
DRW	HCUSR8228 0828302
HC-ENG	JB/AP
SEQN-	107918
FROM	AH
JREF-	1TLM82282702

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"	

A circular professional engineer seal for James F. Conlin, Jr. The outer ring contains the text "JAMES F. CONLIN, JR." at the top and "PROFESSIONAL ENGINEER" at the bottom, separated by stars. The inner circle contains the text "STATE OF FLORIDA" at the top and "LICENSE NO. 52212" at the bottom, also separated by stars. The seal is stamped over a document with a date stamp "OCT 1 1999" and a handwritten "001" in the top right corner.

WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO DESIGN DRAWING (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE), 210 SOUTH STREET, SUITE 312, ALEXANDRIA, VA, 22314 AND WCA (WOOD TRUSS COUNCIL OF AMERICA), 6300 INTERSTATE, SUITE 100, WESTPORT, MA, 01886 FOR ADDITIONAL INFORMATION. THE FOLLOWING INFORMATION, UNLESS OTHERWISE INDICATED, MUST BE PROPERLY ATTACHED TO EACH TRUSS PANEL AND BOTTOM CHORD SHALL HAVE PROPERLY ATTACHED RIGID CEILING.

IMPORTANT *UNLESS A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR, ITW BCG, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THE DESIGN. THE TRUSS IN CONFORMANCE WITH THE TPI OR FABRICATING, HANDLING, SHIPPING, INSTALLING, AND BRACING OF TRUSSES.

DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AIA/PA) AND TPI. ITW BCG CONNECTOR PLATES ARE MADE OF 2019/116GA (41/32)X5/8" ASTM A563 GRADE 40/50 (41, K1/35) GALV. STEEL. APPLY CONNECTOR PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 100A-2. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER AMER A3 OF TPI-2002 SEC.3, (2) SHALL BE PER AMER A3 OF TPI-2002 SEC.3, (3) SHALL BE PER AMER A3 OF TPI-2002 SEC.3, (4) SHALL BE PER AMER A3 OF TPI-2002 SEC.3, (5) SHALL BE PER AMER A3 OF TPI-2002 SEC.3, (6) SHALL BE PER AMER A3 OF TPI-2002 SEC.3, (7) SHALL BE PER AMER A3 OF TPI-2002 SEC.3, (8) SHALL BE PER AMER A3 OF TPI-2002 SEC.3, (9) SHALL BE PER AMER A3 OF TPI-2002 SEC.3, (10) SHALL BE PER AMER A3 OF TPI-2002 SEC.3, (11) SHALL BE PER AMER A3 OF TPI-2002 SEC.3, (12) SHALL BE PER AMER A3 OF TPI-2002 SEC.3, (13) SHALL BE PER AMER A3 OF TPI-2002 SEC.3, (14) SHALL BE PER AMER A3 OF TPI-2002 SEC.3, (15) SHALL BE PER AMER A3 OF TPI-2002 SEC.3, (16) SHALL BE PER AMER A3 OF TPI-2002 SEC.3, (17) SHALL BE PER AMER A3 OF TPI-2002 SEC.3, (18) SHALL BE PER AMER A3 OF TPI-2002 SEC.3, (19) SHALL BE PER AMER A3 OF TPI-2002 SEC.3, (20) SHALL BE PER AMER A3 OF TPI-2002 SEC.3, (21) SHALL BE PER AMER A3 OF TPI-2002 SEC.3, (22) SHALL BE PER AMER A3 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ITW Building Components Group Inc.
Haines City, FL 33844
FL 888-460-2718

	Top	chord	2x4	SP	#2	Dense
Bot	chord	2x4	SP	#2	Dense	
		webs	2x4	SP	#3	
	Filler	2x4	SP	#2	Dense	

110 mph wind, 15.04 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf, $I_w=1.00$ GCpi(+/-)=0.18

Wind reactions based on MWFRS pressures.

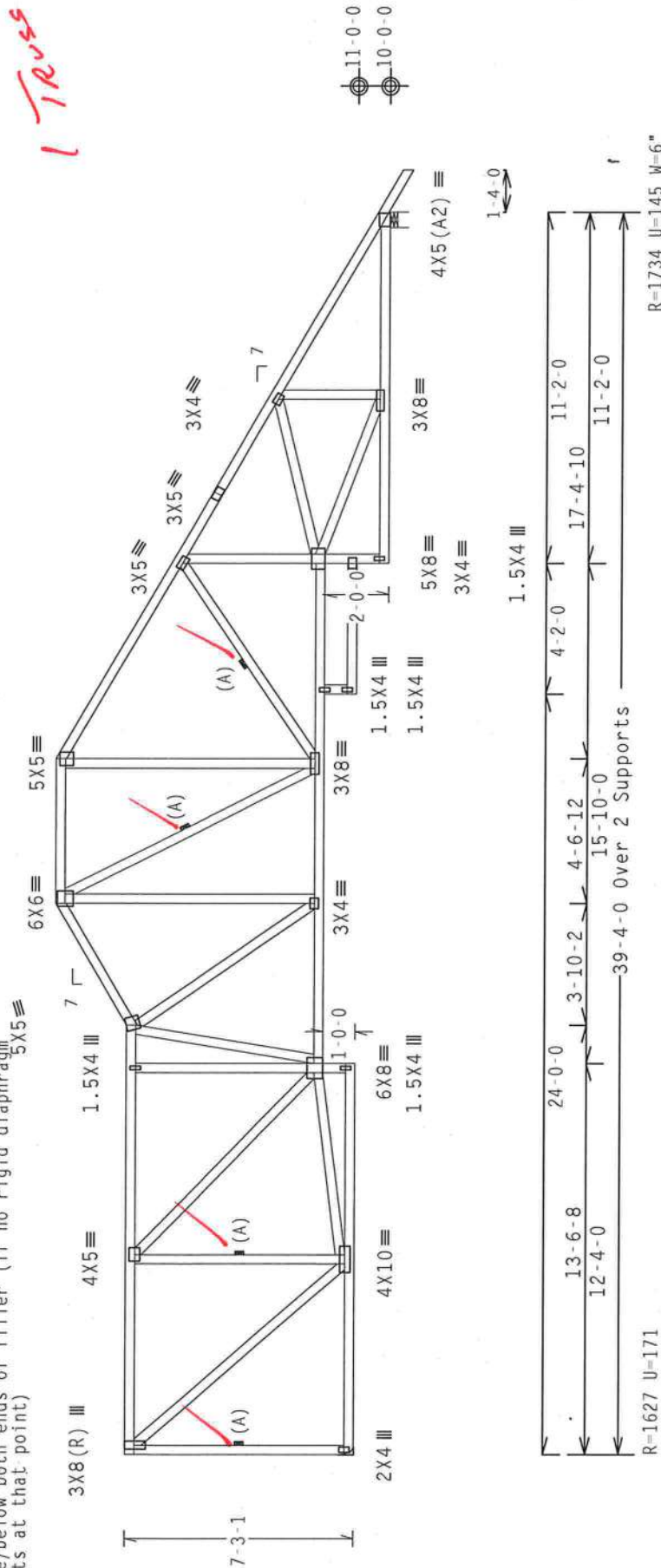
2. The second part of the paper discusses the impact of the 1997-1998 Asian financial crisis on the performance of the Asian stock markets. The results show that the Asian stock markets experienced a significant decline in performance during the crisis, with the average return of the Asian stock markets falling from 12.5% in 1997 to -10.5% in 1998. The results also show that the Asian stock markets experienced a significant increase in volatility during the crisis, with the average volatility of the Asian stock markets rising from 1.5% in 1997 to 3.5% in 1998. The results suggest that the Asian financial crisis had a negative impact on the performance of the Asian stock markets, and that the Asian stock markets experienced a significant increase in volatility during the crisis.

root overhang supports 2.00 pst soffit load.

(A) Continuous lateral bracing equally spaced on member.

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

See detail BCFILLER0207, TCFILLER0207 and REPBCFIL for filler details. Laterally brace chord above/below filler @ 24" O.C. (or as designed) including a brace on chord directly above/below both ends of filler (if no rigid diaphragm exists at that point) 5X5=



R=1627 U=1711

R=1734 U=145 W=6"

Design Crit: TPI-2002(STD)/FBC
Ca/RT=1.00(1.25)

Scale = .1875"/Ft.

QTY:1 FL/-/4/-/-/R/-

(Faint circular stamp or watermark visible in the background)

~~7.36.0~~ $Cq/RT=1.00(1.25)/0(0)$

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100

PLT TYP. Wave

TC LL	20.0 PSF	REF	R8228-	48734
TC DL	10.0 PSF	DATE	10/09/08	
BC DL	10.0 PSF	DRW	HCUSR8228	0828304
BC LL	0.0 PSF	HC-ENG	JB/AP	
TOT.LD.	40.0 PSF	SEQN-	107948	
DUR.FAC.	1.25	FROM	AH	
SPACING	24.0"	JREF-	1TLM8228	28702

****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCGI (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE), 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314, AND WTA (WOOD TRUSS COUNCIL OF AMERICA), 6300 ENTERPRISE LANE, MADISON, WI 53719, FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

****IMPORTANT**** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ITH BCG, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN; ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI OR FABRICATING, HANDLING, SHIPPING, INSTALLING A BRACING OF TRUSSES.

DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC, BY AIA/P&A) AND TPI. ITH BCG CONNECTOR PLATES ARE MADE OF 20/18/16GA (H/S5/K) ASTM A563 GRADE 40/50 (H, K/M-55) GALV. STEEL. ALL PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 100A-2. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF TP11-2002 SEC.3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TP1 1 SEC. 2.



ITW Building Components Group Inc.
Haines City, FL 33844
FL 800-400-278

110 mph wind, 15.48 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. $I_w=1.00$ GCpi(+/-)=0.18

Left end vertical not exposed to wind pressure.

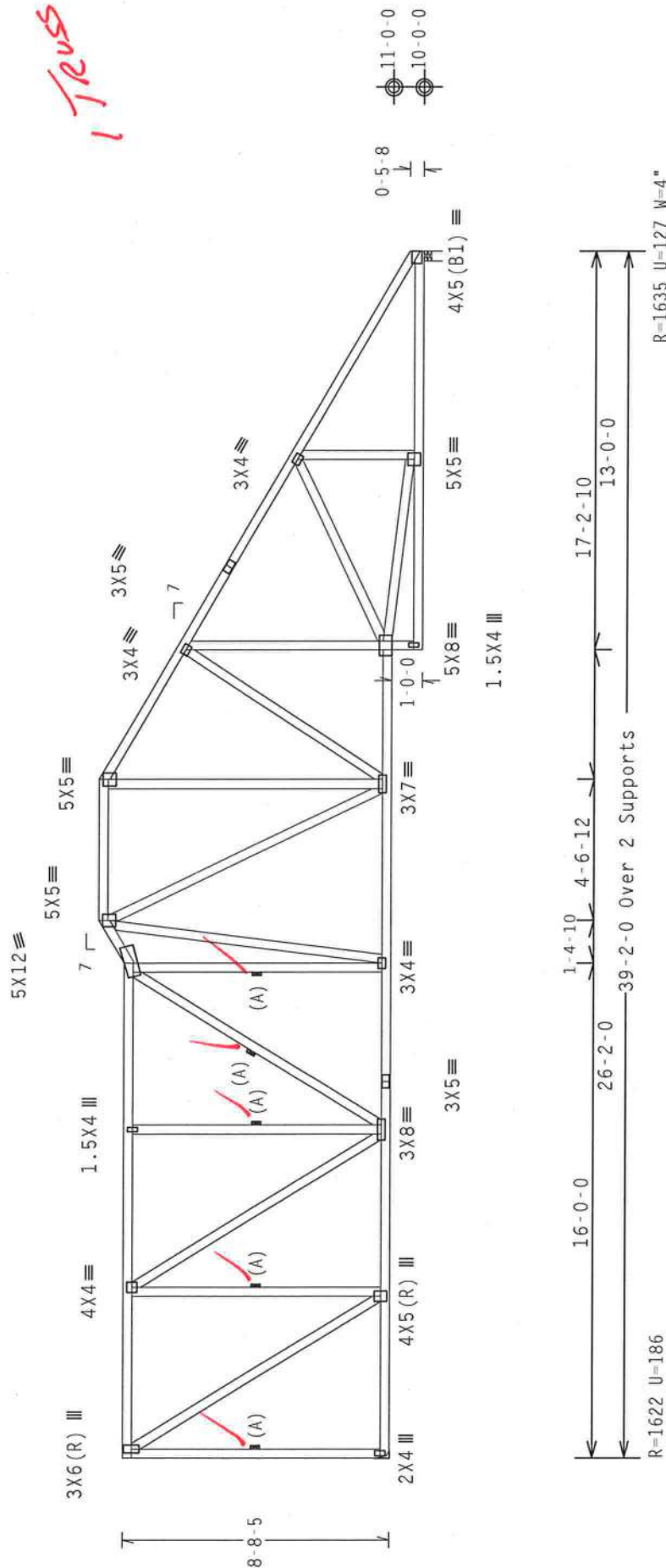
Max JT VERT DEFL: LL: 0.12" DL: 0.20" recommended camber 3/8"

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

Wind reactions based on MWFRS pressures.

(A) Continuous lateral bracing equally spaced on member.

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

Design Crit: $\text{TPI-2002(STD) / FBC}$
 $\text{Ca/RT}=1.00(1.25) /$

Scale = 1875"/Ft.

FL / - / 4 / - / - / R / - /

00-442472-2TY:1

 $Cq/RT=1.00(1.25)/0(0)$

Design 6113:

PLT TYP. Wave

WARNING- FRUSTRERS REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. MUST BE USED TO MEET OUTLADING COMPONENT SAFETY CRITERIA. SEE NORTH LANE, SUITE 312, ALABAMA, VA. 22314) AND WPCO TRUSS COMPANY, ENTERPRISE LANE, ROAD 508, #1 52719 FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE PROPERLY ATTACHED RIGID CEILING.

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IMPORTANT—URNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ITM BCG, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN; ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH ITM PPT1; OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES.

THIS DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC., BY ACP&P) AND TPI1. WITH BCG CONNECTION PLATES ARE MADE OF 2017/16GA (W/MS/55) ASTM A653 GRADE 50/60 (IN K/H/55) GALV. STEEL. APPLY CONNECTION PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 16GA-2-1, 16GA-2-2, 16GA-2-3, 16GA-2-4, 16GA-2-5, 16GA-2-6, 16GA-2-7, 16GA-2-8, 16GA-2-9, 16GA-2-10, 16GA-2-11, 16GA-2-12, 16GA-2-13, 16GA-2-14, 16GA-2-15, 16GA-2-16, 16GA-2-17, 16GA-2-18, 16GA-2-19, 16GA-2-20, 16GA-2-21, 16GA-2-22, 16GA-2-23, 16GA-2-24, 16GA-2-25, 16GA-2-26, 16GA-2-27, 16GA-2-28, 16GA-2-29, 16GA-2-30, 16GA-2-31, 16GA-2-32, 16GA-2-33, 16GA-2-34, 16GA-2-35, 16GA-2-36, 16GA-2-37, 16GA-2-38, 16GA-2-39, 16GA-2-40, 16GA-2-41, 16GA-2-42, 16GA-2-43, 16GA-2-44, 16GA-2-45, 16GA-2-46, 16GA-2-47, 16GA-2-48, 16GA-2-49, 16GA-2-50, 16GA-2-51, 16GA-2-52, 16GA-2-53, 16GA-2-54, 16GA-2-55, 16GA-2-56, 16GA-2-57, 16GA-2-58, 16GA-2-59, 16GA-2-60, 16GA-2-61, 16GA-2-62, 16GA-2-63, 16GA-2-64, 16GA-2-65, 16GA-2-66, 16GA-2-67, 16GA-2-68, 16GA-2-69, 16GA-2-70, 16GA-2-71, 16GA-2-72, 16GA-2-73, 16GA-2-74, 16GA-2-75, 16GA-2-76, 16GA-2-77, 16GA-2-78, 16GA-2-79, 16GA-2-80, 16GA-2-81, 16GA-2-82, 16GA-2-83, 16GA-2-84, 16GA-2-85, 16GA-2-86, 16GA-2-87, 16GA-2-88, 16GA-2-89, 16GA-2-90, 16GA-2-91, 16GA-2-92, 16GA-2-93, 16GA-2-94, 16GA-2-95, 16GA-2-96, 16GA-2-97, 16GA-2-98, 16GA-2-99, 16GA-2-100, 16GA-2-101, 16GA-2-102, 16GA-2-103, 16GA-2-104, 16GA-2-105, 16GA-2-106, 16GA-2-107, 16GA-2-108, 16GA-2-109, 16GA-2-110, 16GA-2-111, 16GA-2-112, 16GA-2-113, 16GA-2-114, 16GA-2-115, 16GA-2-116, 16GA-2-117, 16GA-2-118, 16GA-2-119, 16GA-2-120, 16GA-2-121, 16GA-2-122, 16GA-2-123, 16GA-2-124, 16GA-2-125, 16GA-2-126, 16GA-2-127, 16GA-2-128, 16GA-2-129, 16GA-2-130, 16GA-2-131, 16GA-2-132, 16GA-2-133, 16GA-2-134, 16GA-2-135, 16GA-2-136, 16GA-2-137, 16GA-2-138, 16GA-2-139, 16GA-2-140, 16GA-2-141, 16GA-2-142, 16GA-2-143, 16GA-2-144, 16GA-2-145, 16GA-2-146, 16GA-2-147, 16GA-2-148, 16GA-2-149, 16GA-2-150, 16GA-2-151, 16GA-2-152, 16GA-2-153, 16GA-2-154, 16GA-2-155, 16GA-2-156, 16GA-2-157, 16GA-2-158, 16GA-2-159, 16GA-2-160, 16GA-2-161, 16GA-2-162, 16GA-2-163, 16GA-2-164, 16GA-2-165, 16GA-2-166, 16GA-2-167, 16GA-2-168, 16GA-2-169, 16GA-2-170, 16GA-2-171, 16GA-2-172, 16GA-2-173, 16GA-2-174, 16GA-2-175, 16GA-2-176, 16GA-2-177, 16GA-2-178, 16GA-2-179, 16GA-2-180, 16GA-2-181, 16GA-2-182, 16GA-2-183, 16GA-2-184, 16GA-2-185, 16GA-2-186, 16GA-2-187, 16GA-2-188, 16GA-2-189, 16GA-2-190, 16GA-2-191, 16GA-2-192, 16GA-2-193, 16GA-2-194, 16GA-2-195, 16GA-2-196, 16GA-2-197, 16GA-2-198, 16GA-2-199, 16GA-2-200, 16GA-2-201, 16GA-2-202, 16GA-2-203, 16GA-2-204, 16GA-2-205, 16GA-2-206, 16GA-2-207, 16GA-2-208, 16GA-2-209, 16GA-2-210, 16GA-2-211, 16GA-2-212, 16GA-2-213, 16GA-2-214, 16GA-2-215, 16GA-2-216, 16GA-2-217, 16GA-2-218, 16GA-2-219, 16GA-2-220, 16GA-2-221, 16GA-2-222, 16GA-2-223, 16GA-2-224, 16GA-2-225, 16GA-2-226, 16GA-2-227, 16GA-2-228, 16GA-2-229, 16GA-2-230, 16GA-2-231, 16GA-2-232, 16GA-2-233, 16GA-2-234, 16GA-2-235, 16GA-2-236, 16GA-2-237, 16GA-2-238, 16GA-2-239, 16GA-2-240, 16GA-2-241, 16GA-2-242, 16GA-2-243, 16GA-2-244, 16GA-2-245, 16GA-2-246, 16GA-2-247, 16GA-2-248, 16GA-2-249, 16GA-2-250, 16GA-2-251, 16GA-2-252, 16GA-2-253, 16GA-2-254, 16GA-2-255, 16GA-2-256, 16GA-2-257, 16GA-2-258, 16GA-2-259, 16GA-2-260, 16GA-2-261, 16GA-2-262, 16GA-2-263, 16GA-2-264, 16GA-2-265, 16GA-2-266, 16GA-2-267, 16GA-2-268, 16GA-2-269, 16GA-2-270, 16GA-2-271, 16GA-2-272, 16GA-2-273, 16GA-2-274, 16GA-2-275, 16GA-2-276, 16GA-2-277, 16GA-2-278, 16GA-2-279, 16GA-2-280, 16GA-2-281, 16GA-2-282, 16GA-2-283, 16GA-2-284, 16GA-2-285, 16GA-2-286, 16GA-2-287, 16GA-2-288, 16GA-2-289, 16GA-2-290, 16GA-2-291, 16GA-2-292, 16GA-2-293, 16GA-2-294, 16GA-2-295, 16GA-2-296, 16GA-2-297, 16GA-2-298, 16GA-2-299, 16GA-2-300, 16GA-2-301, 16GA-2-302, 16GA-2-303, 16GA-2-304, 16GA-2-305, 16GA-2-306, 16GA-2-307, 16GA-2-308, 16GA-2-309, 16GA-2-310, 16GA-2-311, 16GA-2-312, 16GA-2-313, 16GA-2-314, 16GA-2-315, 16GA-2-316, 16GA-2-317, 16GA-2-318, 16GA-2-319, 16GA-2-320, 16GA-2-321, 16GA-2-322, 16GA-2-323, 16GA-2-324, 16GA-2-325, 16GA-2-326, 16GA-2-327, 16GA-2-328, 16GA-2-329, 16GA-2-330, 16GA-2-331, 16GA-2-332, 16GA-2-333, 16GA-2-334, 16GA-2-335, 16GA-2-336, 16GA-2-337, 16GA-2-338, 16GA-2-339, 16GA-2-340, 16GA-2-341, 16GA-2-342, 16GA-2-343, 16GA-2-344, 16GA-2-345, 16GA-2-346, 16GA-2-347, 16GA-2-348, 16GA-2-349, 16GA-2-350, 16GA-2-351, 16GA-2-352, 16GA-2-353, 16GA-2-354, 16GA-2-355, 16GA-2-356, 16GA-2-357, 16GA-2-358, 16GA-2-359, 16GA-2-360, 16GA-2-361, 16GA-2-362, 16GA-2-363, 16GA-2-364, 1



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

A circular professional engineer seal for the State of Florida. The outer ring contains the text "JAMES E. PERKINS, JR." at the top and "PROFESSIONAL ENGINEER" at the bottom, separated by stars. The inner circle contains the text "STATE OF FLORIDA" and "No. 52212", also separated by stars. A signature is written across the seal.

EF	R8228-	48738
DATE	10/09/08	
PRW	HCUSR8228	0828303
C-ENG	JB/AP	
EQN-	107988	
ROM	AH	

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	

A circular professional engineer seal for the State of Florida. The outer ring contains the text "JAMES E. PERKINS, JR." at the top and "PROFESSIONAL ENGINEER" at the bottom, separated by stars. The inner circle contains the text "STATE OF FLORIDA" and "No. 52212", also separated by stars. A signature is written across the seal.

[illegible][illegible]

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

Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3

110 mph wind, 15.48 ft mean hgt. ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. $I_w=1.00$ GCpf(+/-)=0.18

Wind reactions based on MMFRS pressures.

Left end vertical not exposed to wind pressure.

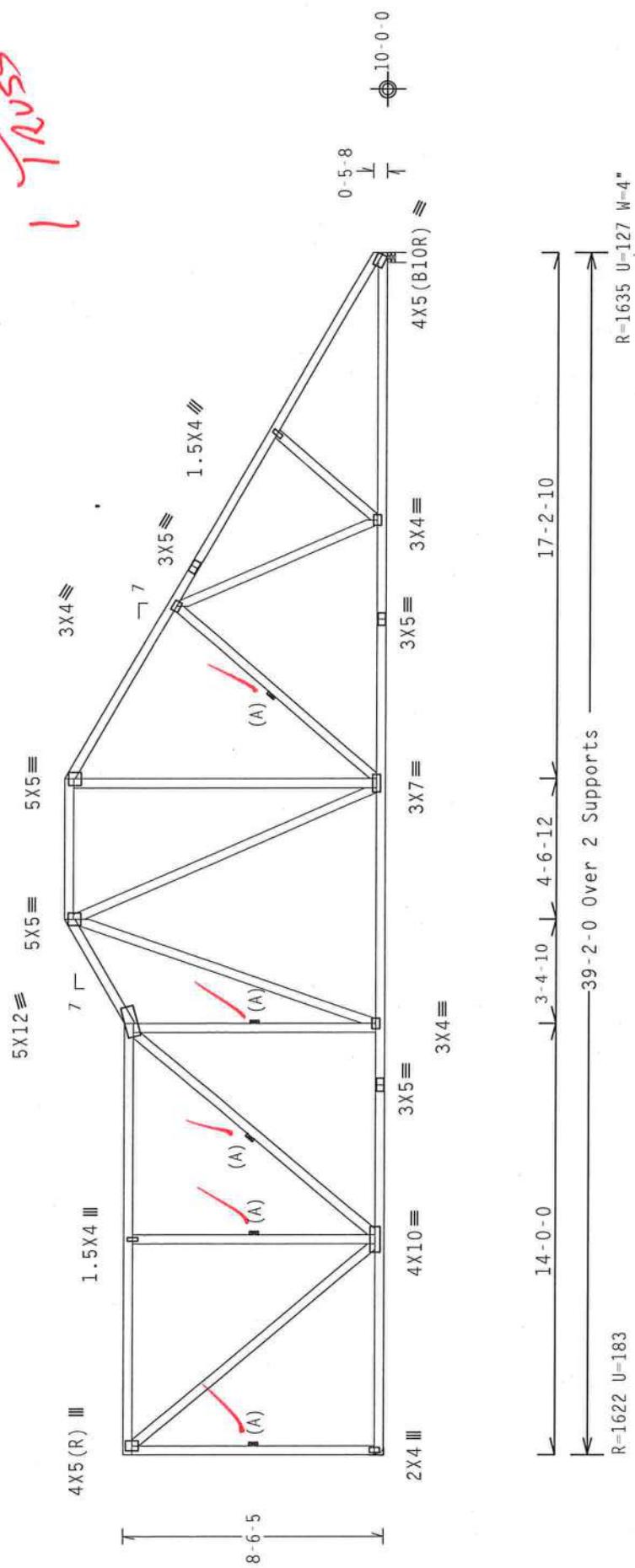
Max JT VERT DEFL: LL: 0.10" DL: 0.17" recommended camber 1/4"

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

(A) Continuous lateral bracing equally spaced on member.

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

1 TRUSS



PLT TYP. Wave

Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/0(0)

Scale = .1875" / Ft.

TC LL	20.0 PSF	FL / - / 4 / - / R / -
TC DL	10.0 PSF	REF R8228 - 48739
BC DL	10.0 PSF	DATE 10/09/08
BC LL	0.0 PSF	DRW HCUSR8228 08283028
TOT.LD.	40.0 PSF	HC-ENG JB/AP
DUR.FAC.	1.25	SEQN - 108002
SPACING	24.0"	FROM AH
		QREF - 1T M8228702

QTY: 1

7.36 00

Oct 09 08

FL 33844

ITW Building Components Group Inc.

Haines City, FL 33844

FL 33844

ALPINE

STATE OF FLORIDA

PROFESSIONAL ENGINEER

No. 52212

JAMES S. POLAKS, JR.

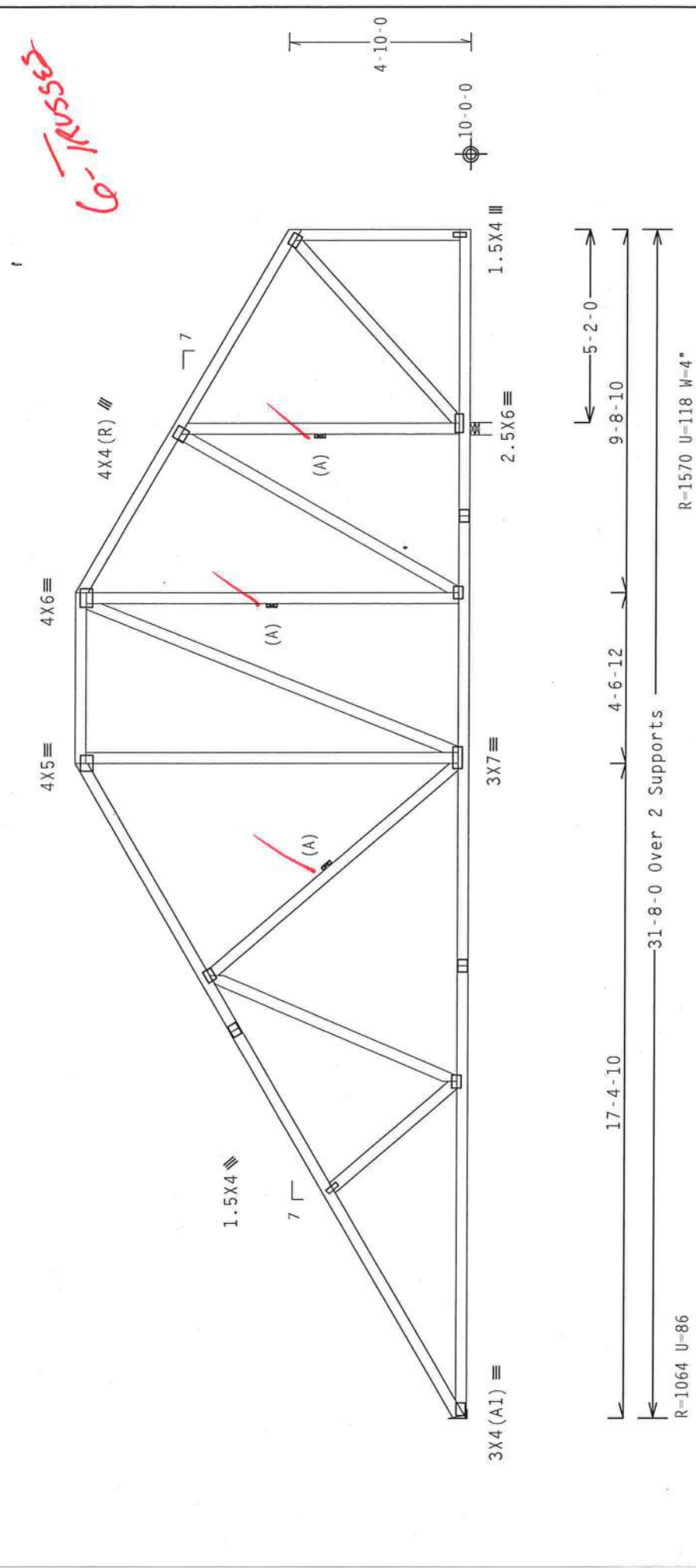
WARNING** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSI (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATFORM), 6300 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314, AND WCA (WOOD TRUSS COUNCIL OF AMERICA), 6300 ENTERPRISE LANE, MADISON, WI, 53719, FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

IMPORTANT FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ITW BCG, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN; ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI; OR FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING OF TRUSSES. ITW BCG DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF HDS (NATIONAL DESIGN SPEC., BY ACPA) AND TPI. ITW BCG CONNECTOR PLATES ARE MADE OF 2018/166A (4-H/SS/A) ASTM A653 GRADE 40/60 (4, 4/H-SS) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-2. DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEER SIGNATURE FOR THE TRUSS COMPONENT. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.

110 mph wind, 15.43 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT 11, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. 1w=1.00 GCpi (+/-)=0.18

Right end vertical not exposed to wind pressure.

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



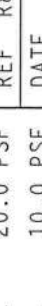
Note: All Plates Are 3X4 Except As Shown.

Design Crit: TPI-2002(STD)/IFBC

Ca/RT=1.00(1.25) / 0(0)

PLT TYP. Wave

Scale = 25"/FT
OTY: 1 FL - / 4 - / - R /



ITW Building Components Group Inc.
Haines City, FL 33844
FL 000000278

ALPINE

****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BC51 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI, 10000 PINEVIEW AVE., SUITE 100, NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND WICA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LANE, MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

****IMPORTANT**** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ITW BCG, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN; ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI; OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES.

DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC., BY AF&PA) AND TPI. ITW BCG CONNECTOR PLATES ARE MADE OF 20/18/16GA (W/H/S/S/K) ASTM A653 GRADE 40/60 (H, K/H-SS) GALV. STEEL, APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 1600A-2. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A OF TPI-1-2002 SEC.3. A SEAL ON THIS DRAWING INDICATES THE PRESENCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT DESIGN. THIS SEAL DOES NOT INDICATE THE DESIGN OR USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.

TC LL	20.0	PSF	REF	R8228 - 48740
TC DL	10.0	PSF	DATE	10/09/08
BC DL	10.0	PSF	DRW	HCUSR8228 08283031
BC LL	0.0	PSF	HC-ENG	JB/AP
TOT.LD.	40.0	PSF	SEQN-	108010
DUR.FAC.	1.25		FROM	AH
SPACING	24.0"		JREF-	1TLMR228Z02

	Top	chord	2x4	SP	#2	Dense
Bot	chord	2x4	SP	#2	Dense	
		webs	2x4	SP	#3	

110 mph wind, 15.04 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. $lw=1.00$ GCpi(+/-)=0.18

Roof overhang supports 2.00 psf soffit load.

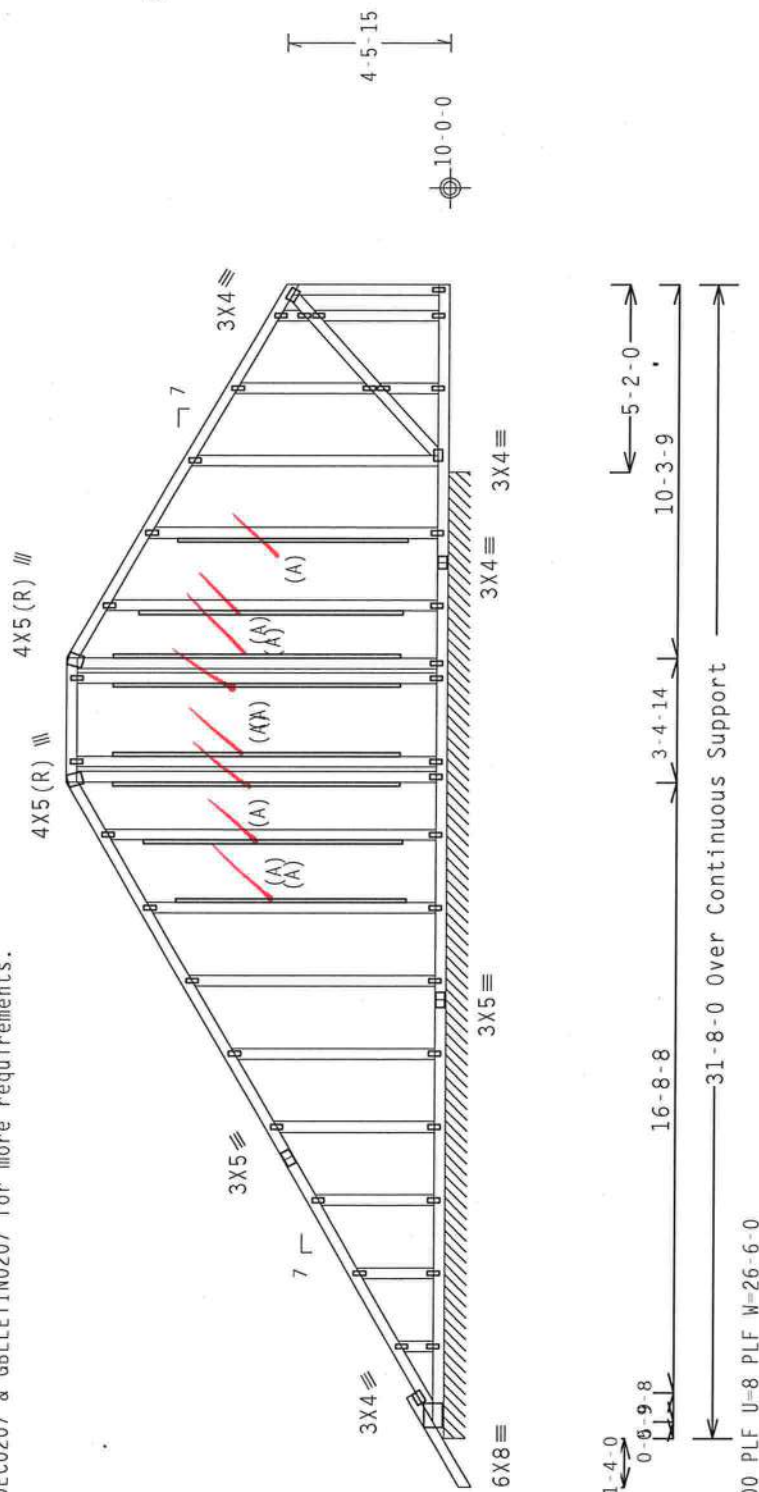
Truss spaced at 24.0" OC designed to support 1-4-0 top chord
outlookers. Cladding load shall not exceed 10.00 PSF. Top chord
must not be cut or notched.

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

(A) 1x4 #3SR8 SPF-S or better "L" brace. 80% length of web member. Attach with 8d Box or Gun (0.113"x2.5", min.) nails @ 6" OC.

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

See DWGS A11030EC0207 & GBLLETIN0207 for more requirements.



Note: All Plates Are 1.5X4 Except As Shown.

Design Crit: TPI-2002(STD)/FBC

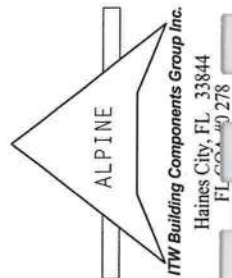
PLT	TYP.	Wave	QTY: 1	FL / - / 4 / - / - / R /	Scale = .1875" / Ft.
2002	(S10) / RBC		7.36.00		
	Cq / RT = 1.00 (1.25) / 0 (0)				

TC LL	20.0	PSF	REF	R8228-	48741
TC DL	10.0	PSF	DATE	10/09/08	
BC DL	10.0	PSF	DRW	HCUSR8228	08283036
BC LL	0.0	PSF	HC-ENG	JB/AP	
TOT.LD.	40.0	PSF	SEQN-	108031	
DUR.FAC.	1.25		FROM	AH	
SPACING	24.0"		JREF-	ITLM8228Z02	



*****WARNING***** THESE REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO THE FOLLOWING INFORMATION. PUBLISHED BY THE CROSS PLATE INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA 22304. CROSS GROUP OF AMERICA, 4000 ENTERPRISE LANE, MADISON, WI 53719. FOR SAFETY PRACTICES PERFORMING THESE FUNCTIONS, UNLESS OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE PROPERLY ATTACHED RIGID CEILING.

**** IMPORTANT ****TURKISH A COPY OF THIS DESIGN TO INSTALLATION CONTRACTOR IN BEC. INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN; ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI-1 OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES, ITM BEG MUST FULLY COMPLY WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC., BY AF&PA) AND TPI-1. ITM BEG SHALL ALSO COMPLY WITH ALL APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC., BY AF&PA), SECTION 160A-2, PLATES TO EACH FACE OF TRUSSES AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-2. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A.3 OF TPI-1-2002 SEC. 3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT OF THIS PROJECT. THE USE OF THIS COMMENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANNEX/TPI-1 SEC. 2.



~~3 COMPLETE TRUSSES REQUIRED~~

Nailing Schedule: (12d_Common @ 12.00" o.c.
Top Chord: 1 Row @ 3.00" o.c.
Bot Chord: 1 Row @ 3.00" o.c.
Webs : 1 Row @ 4" o.c.

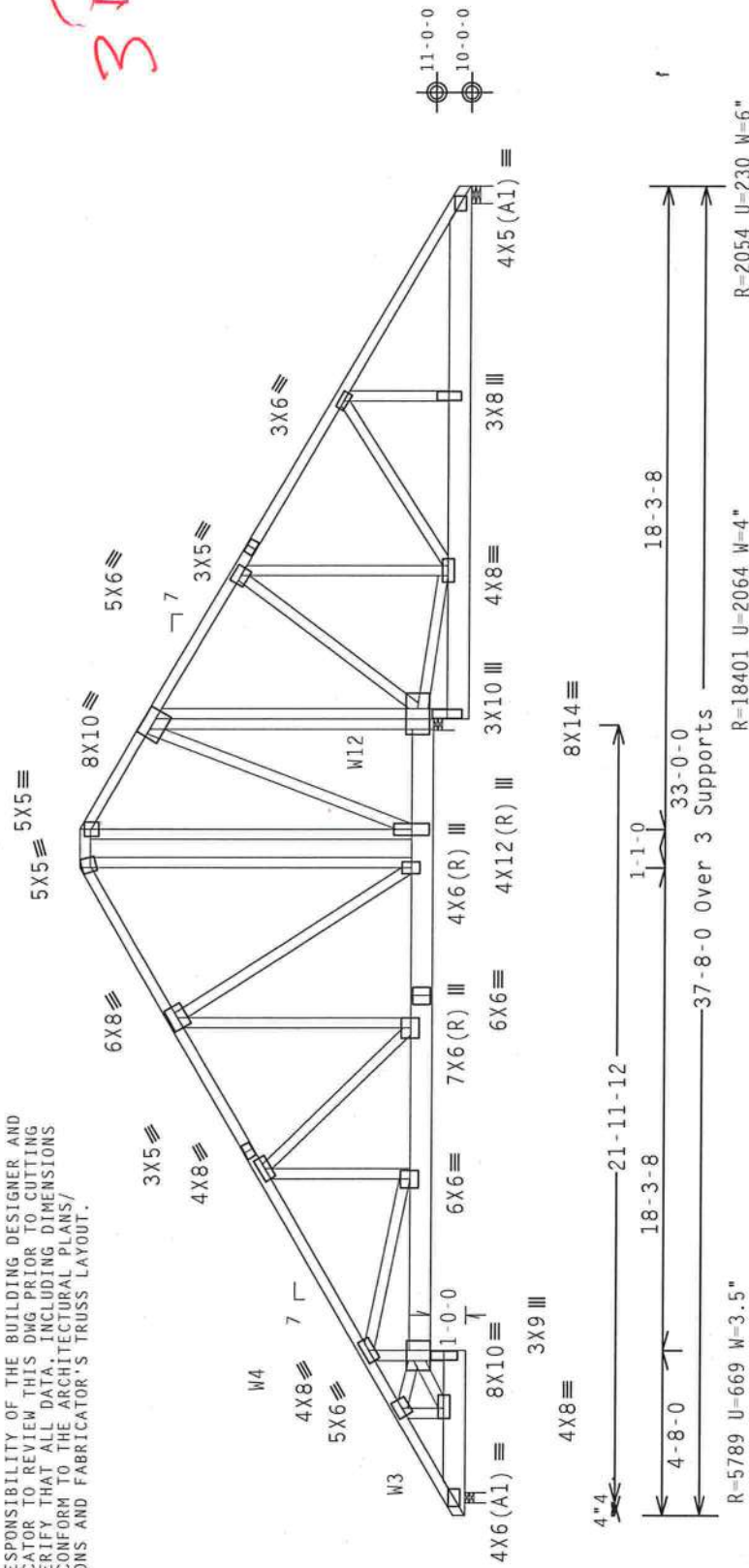
Repeat nailing as each layer is applied. Use equal spacing between rows and stagger nails in each row to avoid splitting.

110 mph wind. 15.69 ft mean hgt. ASCE 7-02. CLOSED bldg. not located within 4.50 ft from roof edge. CAT II. EXP B. wind TC DL=5.0 psf. wind BC DL=5.0 psf. IW=1.00 Gcpl (+/-)=0.18

Wind reactions based on MWFRS pressures.

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.



Design Crit: TPI-2002(STD)/FBC

 $C_d/RT=1.00(1.25)/0(0)$

QTY:1 FL/-/4/-/-/R/-/
Scale = 1875" / Ft.

PLT TYP. Wave

****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BEST AVAILABLE COMPONENT SAFETY INFORMATION, PUBLISHED BY (1) TRUSS PLATE INSTITUTE, 2100 SOUTH STATE STREET, SUITE 312, ALEXANDRIA, VA, 22314, AND (2) AISC (AMERICAN INSTITUTE OF STEEL CONSTRUCTION), INC., 1801 LEXINGTON AVENUE, NEW YORK, NY 10017-2148, FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE PROPERLY ATTACHED RIGID CHORDS.

ALPINE

ITW Building Components Group Inc.

Haines City, FL 33844

FL 00, "0 278



Oct 09 08

TC LL	20.0 PSF	REF	R8228- 48743
TC DL	10.0 PSF	DATE	10/09/08
BC DL	10.0 PSF	DRW	HCUSR8228 08283011
BC LL	0.0 PSF	HC-ENG	JB/AP
TOT.LD.	40.0 PSF	SEQN-	108104
DUR.FAC.	1.25	FROM	AH
SPACING	24.0"	JREF-	1T1M8228702

Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3

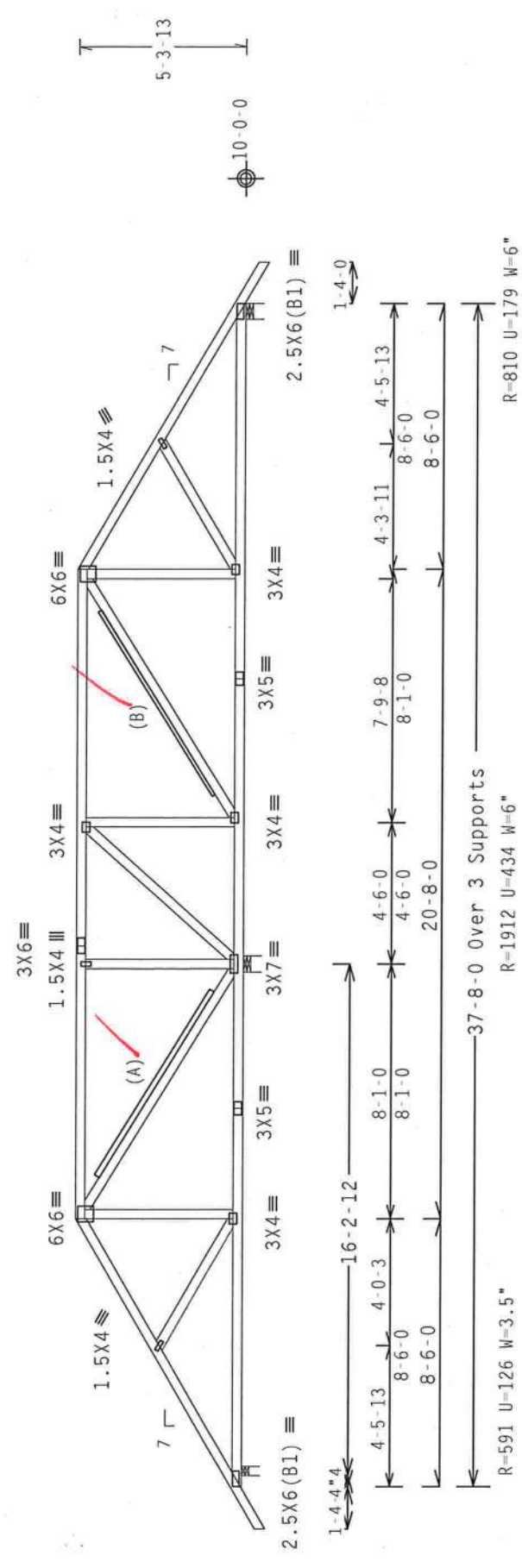
Roof overhang supports 2.00 psf soffit load.

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, PART. ENC. bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind IC DL=5.0 psf, wind BC DL=5.0 psf. lw=1.00 GCpi(+/-)-0.55

Wind reactions based on MWFRS pressures.

- (A) 2x4 #3 or better "T" brace. 80% length of web member. Attach with 16d Box or Gun (0.135"x3.5", min.) nails @ 6" OC.
 - (B) 1x4 #3SRB SPF-S or better "T" brace. 80% length of web member. Attach with 8d Box or Gun (0.113"x2.5", min.) nails @ 6" OC.
- 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.

TRUSS



PLT TYP. Wave

Design Crit: TPI-2002(STD)/FBC

Cq/RT=1.00(1.25)/0(0)

7.36

QTY:1

FL/-/4/-/-/R/-

Scale = .1875"/Ft.

REF R8228- 48744

DATE 10/09/08

DRW HCUSR8228 08283016

HC-ENG DF/DF

SEQN- 108324

FROM AH

JREF- 1TLM8228Z02

ALPINE

ntw Building Components Group Inc.

Haines City, FL 33844

FL 00000278

****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO RESIDENTIAL BUILDING COMPONENT SAFETY INFORMATION, PUBLISHED BY THE NATIONAL TRUSS MANUFACTURERS ASSOCIATION, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314, AND WCA (WOOD COUNCIL OF AMERICA), 100 ENTERPRISE LANE, MADISON, WI 53719 FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

****IMPORTANT**** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ITM BCG, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN; ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI1 OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC, BY AIA/PCA) AND TPI1. 1TH BCG CONNECTOR PLATES ARE MADE OF 2018/16GA (40/60 (4, 6/8, 55) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWING 160A-2. ANY INSPECTION OF PLATES FOLLOWED BY (3) SHALL BE PER ANNEX A3 OF TPI1-2002 SEC.3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT MANUFACTURED BY ITM BCG, INC. THE USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/APA 1 SEC. 2.

Oct 09 08

	Top	chord	2x4	SP	#2	Dense
Bot	chord	2x4	SP	#2	Dense	
	webs	2x4	SP	#3		

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, PART_ENC. bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. lw=1.00 GCpi(+/-)=0.55

Roof overhang supports 2.00 psf soffit load.

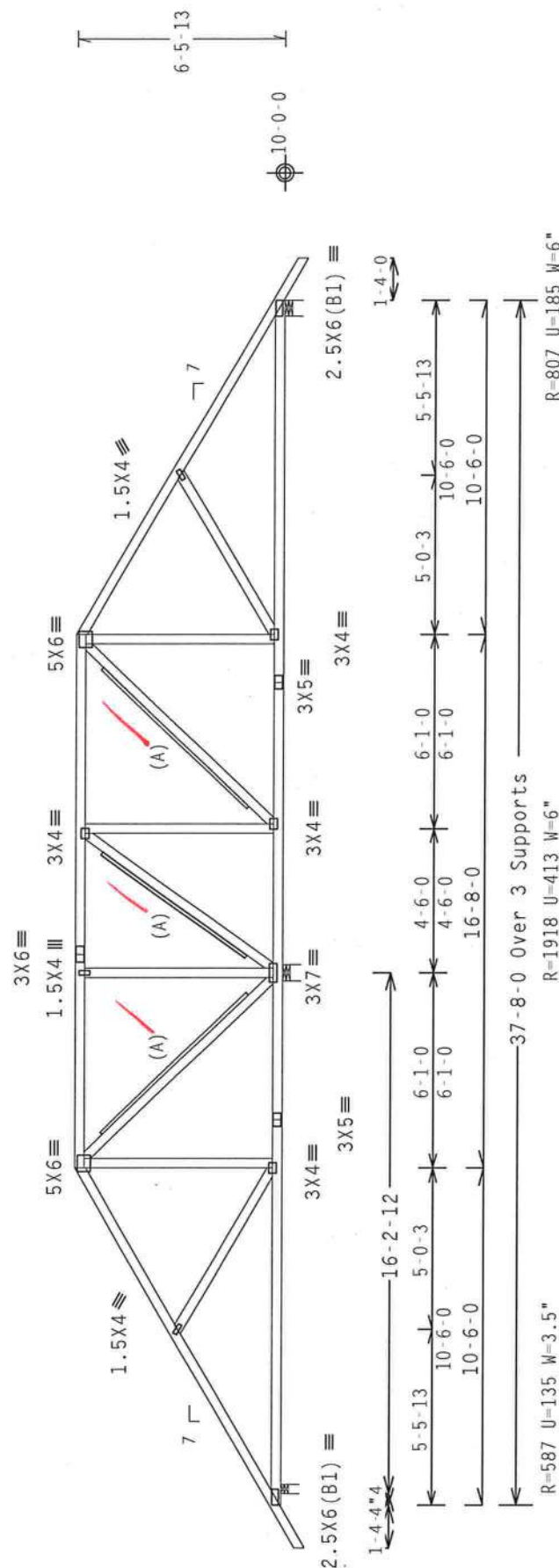
(A) 1x4 #3SR8 SPF-S or better "I" brace. 80% length of web member. Attach with 8d Box or Gun (0.113"x2.5", min.) nails @ 6" OC.

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

Wind reactions based on MWFRS pressures.

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

1. Test

Design Crit: $\text{TPI-2002(STD)}/\text{FBC}$
 $\text{Ca}/\text{RT}=1.00(1.25)/$

PLT TYP. Wave

Scale = .1875" / Ft.

FL/-/4/-/-/R/-

QTY:1

7.00

7.36

$$5) / 0(0)$$
 $0.00(1.2)$ $Cq/RT=1$

511

Design

1

1

21

YP. Wave

PLT T

****WARNING**** THUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BEST AVAILABLE COMPONENT SAFETY INFORMATION. HANDLED BY TRUSS PLATE INSTITUTE, 218
HARRIS LANE, BUILDING 312, ALEXANDRIA, VA, 22314 AND RICA (800) THUS COUNCIL OF AMERICA, 6300
ENTERPRISE LANE, BIRMINGHAM, AL 35206. THESE PRACTICES PRELUD TO PERFORMING THESE FUNCTIONS. UNLESS
OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE
PROPERLY ATTACHED RIGID CELL GIRDS.

[illegible]

ALPINE

ITW Building Components Group Inc.
Haines City, FL 33844
FL 888-400-278

nes City, FL 33844
FL 33844-0278

Tallahassee City, FL 32309
FL CCA #0278

Hail

Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3

Roof overhang supports 2.00 psf soffit load.

(A) 1x4 #3SRB SPF-S or better "T" brace. 80% length of web member.
Attach with 8d Box or Gun (0.113"x2.5", min.) nails @ 6" OC.

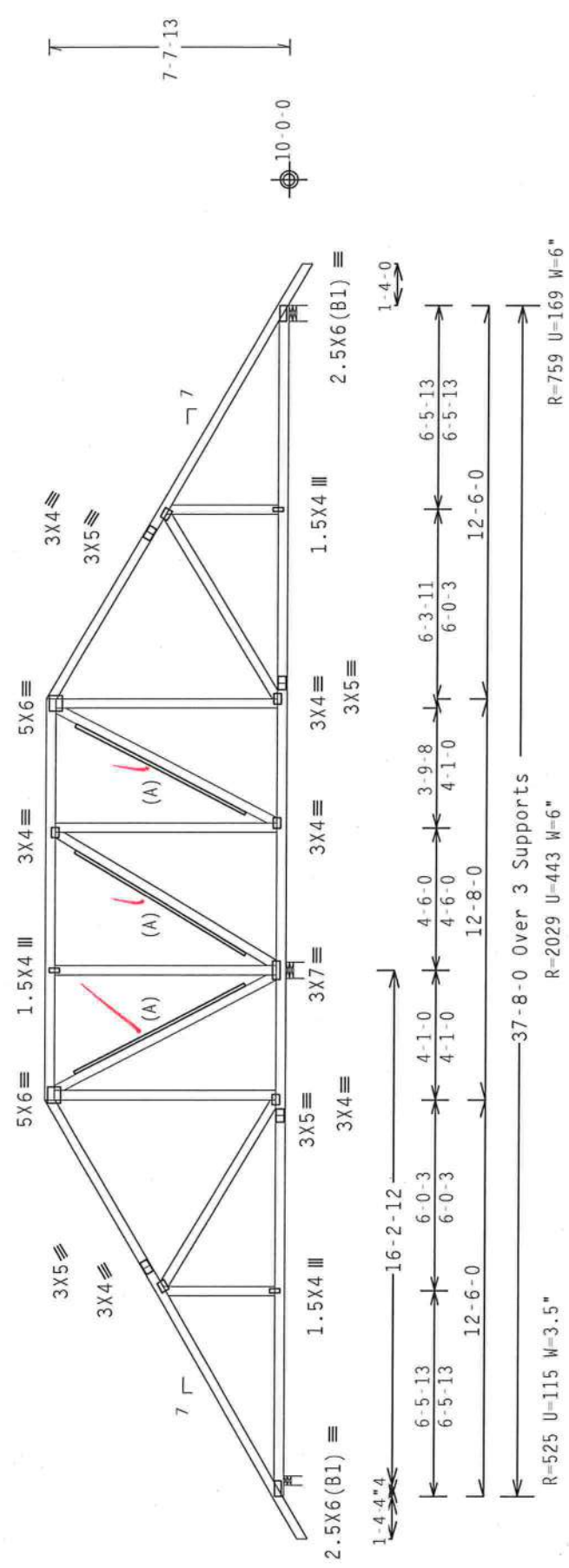
Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, PART. ENC. bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. $I_w=1.00$ GCpi (+/-) 0.55

Wind reactions based on MWFRS pressures.

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

1 TRUSS



PLT TYP. Wave

Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/0(0)

Scale = .1875" / Ft.

ALPINE

ITW Building Components Group Inc.
Haines City, FL 33844
FL 0000 40 278

PLT TYP. Wave

Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/0(0)

Scale = .1875" / Ft.

ALPINE

ITW Building Components Group Inc.
Haines City, FL 33844
FL 0000 40 278

TC LL	20.0 PSF	FL / - / 4 / - / - / R / -	REF	R8228- 48746
TC DL	10.0 PSF		DATE	10/09/08
BC DL	10.0 PSF		DRW	HCUSR8228 08283018
BC LL	0.0 PSF		HC-ENG	DF/DF
TOT.LD.	40.0 PSF		SEQN-	108335
DUR.FAC.	1.25		FROM	AH
SPACING	24.0"		JREF-	1TLM8228202

JAMES P. COLLINS, JR.

PROFESSIONAL ENGINEER

STATE OF FLORIDA

No. 52212

Oct 09 2008

WARNING

TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSI (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND NCTA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LANE, MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

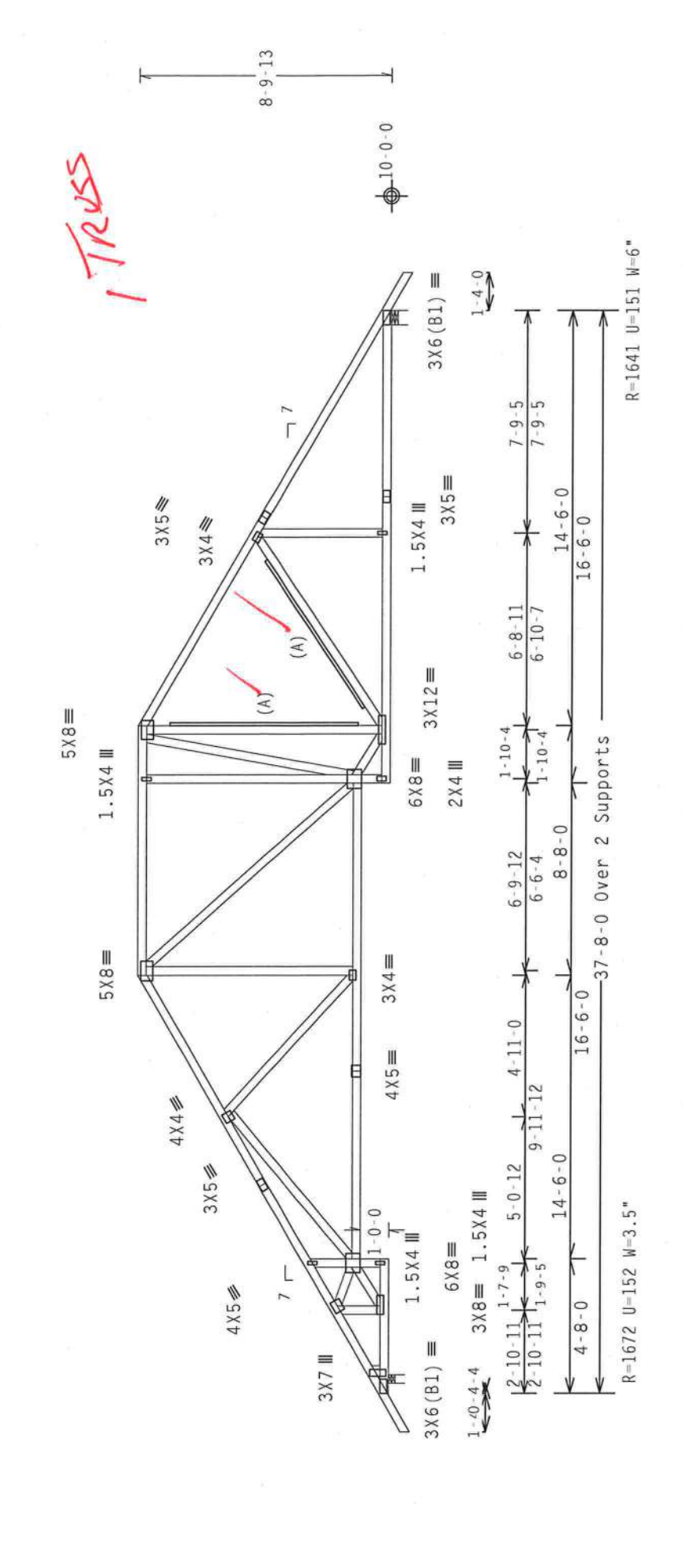
IMPORTANT

FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ITW BCG, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN; ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI; OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AIA/ASD) AND TPI. ITW BCG CONNECTOR PLATES ARE MADE OF 2018/16GA (4-M/55/KS) ASH 6061 GRADE 40/60 (4, K/M,SS) GALV. STEEL. APPLY ANY INSPECTION OF PLATES FOLLOWED BY SHALL BE LOCATED ON THIS DESIGN. POSITION PER DRAWINGS 160A-2. DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY. SOLELY FOR THE TRUSS COMPANY'S DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.

Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3
Lt Wedge 2x4 SP #3:
Roof overhang supports 2.00 psf soffit load.

(A) 1x4 #3SR8 SPF-S or better "T" brace. 80% length of web member.
Attach with 8d Box or Gun (0.113"x2.5",min.)nails @ 6" OC.
Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. Iw=1.00 GCpi(+/-)-0.18
Wind reactions based on MWFRS pressures.
Calculated horizontal deflection is 0.10" due to live load and 0.15" due to dead load.
In lieu of structural panels use purlins to brace all flat TC @ 24" OC.



PLT TYP. Wave

Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/0(0) 7.36.00 QTY:1 FL/-/4/-/-/R/-

Scale = .1875"/Ft.

REF	R8228- 48747
DATE	10/09/08
DRW	HCUSR8228 08283019
HC-ENG	DF/DF
SEQN-	108343
FROM	AH
JREF-	ITLM8228202

ALPINE
Haines City, FL 33844
FL 000040278

ITW Building Components Group Inc.

	Top	chord	2x4	SP	#2	Dense
Bot	chord	2x4	SP	#2	Dense	
		webs	2x4	SP	#3	
:Lt	Wedge	2x4	SP	#3:		

Roof overhang supports 2.00 psf soffit load.

(B) 2x4 #3 or better "T" brace. 80% length of web member. Attach with 16d Box or Gun (0.135"x3.5", min.) nails @ 6" OC.

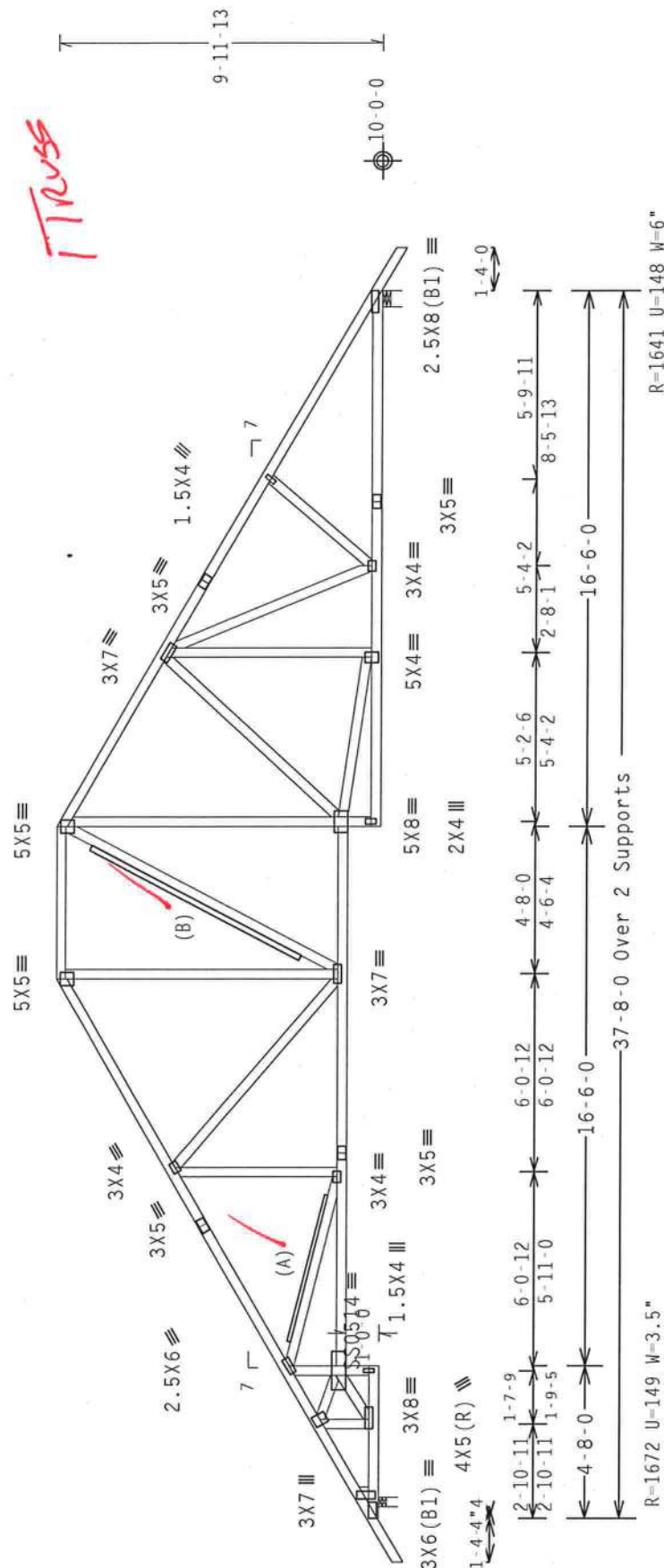
Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. Iw=1.00 GCpi(+/-)=0.18

Wind reactions based on MWFRS pressures.

(A) 1x4 #3SRB SPF-S or better "T" brace. 80% length of web member. Attach with 8d Box or Gun (0.113"x2.5",min.) nails @ 6" OC.

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



PLT TYP. 18 Gauge HS. Wave

Design Crit: TPI-2002(STD)/FBC

 $C_q/RT=1.00(1.25)/0(0)$

Scale = .1875"/Ft.

****WARNING**** THUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. THE BEST BUILDING COMPONENT SAFETY INFORMATION, PUBLISHED BY THE CRUSS PLATE INSTITUTE, 218 NORTH LEE BLVD., SUITE 314, AUSTIN, TEXAS 78701, (800) 448-7883, IS AVAILABLE FROM THE COUNCIL OF AMERICA, 6300 ENTERPRISE BLVD., SUITE 100, DALLAS, TEXAS 75249, (214) 343-7200. FOR SAFETY REASONS, ALL BRACING STRUCTURES, UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE PROPERLY ATTACHED RIGID CHILLING.

ALPINE

ITW Building Components Group Inc.
Haines City, FL 33844
FL 888/400-0278

ALPINE

Haines City, FL 33844
FL CO. #0278



Oct 09 08

SPACING 24.0"

REF- 1TLM8228702

SPACING 24.0"

Top chord 2x4 SP #2 Dense
Bot chord 2x8 SP #1 Dense
Webs 2x4 SP #3

SPECIAL LOADS

----- (LUMBER DUR.FAC.=1.25 / PLATE DUR.FAC.=1.25)
TC - From 63 PLF at 1.33 to 63 PLF at 2.25
TC - From 63 PLF at 2.25 to 63 PLF at 9.08
TC - From 63 PLF at 9.08 to 63 PLF at 12.67
BC - From 5 PLF at 1.33 to 5 PLF at 0.00
BC - From 20 PLF at 0.00 to 20 PLF at 11.33
BC - From 5 PLF at 11.33 to 5 PLF at 12.67
BC - 1633 LB Conc. Load at 1.06, 3.06, 5.06, 7.06
BC - 1641 LB Conc. Load at 9.12

Roof overhang supports 2.00 psf soffit load.

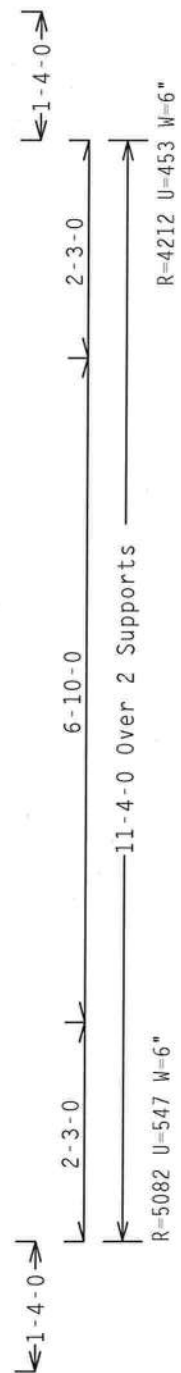
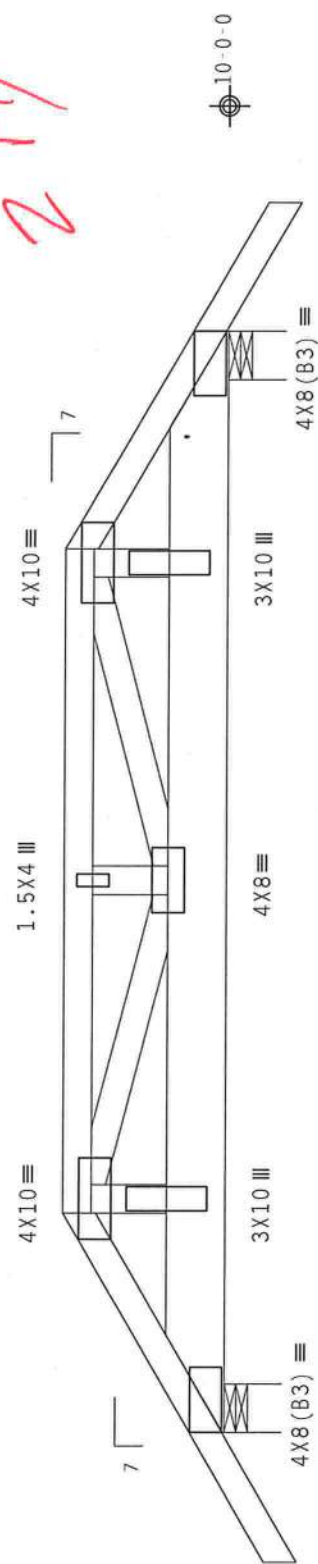
Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.

2 COMPLETE TRUSSES REQUIRED

Nailing Schedule: (12d Common (0.148"x3.25", min.)_nails)
Top Chord: 1 Row @12.00" o.c.
Bot Chord: 2 Rows @5.50" o.c. (Each Row)
Webs : 1 Row @ 4" o.c.
Use equal spacing between rows and stagger nails in each row to avoid splitting.
110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. $I_w=1.00$ $G_{Cpi}(+/-)=0.18$
Wind reactions based on MWFRS pressures.

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

2 Ply



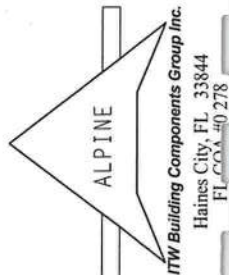
Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/0(0)

QTY:1	FL/-/4/-/1-R/-	Scale = 5"/Ft.
TC LL	20.0 PSF	REF R8228- 48749
TC DL	10.0 PSF	DATE 10/09/08
BC DL	10.0 PSF	DRW HCUSR8228 08283001
BC LL	0.0 PSF	HC-ENG JB/AP
TOT.LD.	40.0 PSF	SEQN- 108037
DUR.FAC.	1.25	FROM AH
SPACING	24.0"	JREF- 1TLM8228Z02



****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSI (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY THE NATIONAL TRUSS MANUFACTURERS ASSOCIATION, 6300 ENTERPRISE LANE, MADISON, MI 48061-1500, FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

****IMPORTANT**** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. THE BCS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN; ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI; OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC., BY AIA/PA) AND TPI. 1TH BCS CONNECTION PLATES ARE MADE OF 2018/16GA (4-H/55/K) ASTM A653 GRADE 40/60 (4, 6/H,SS) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-2. DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEER FOR THE TRUSS COMPONENT. A SEAL ON THIS DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.



(8-235--BRYAN ZECHER Model 1021 The Oaks -- ** - F-GE)

Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3

Roof overhang supports 2.00 psf soffit load.

See DWGS A11015EE0207 & GBLLETIN0207 for more requirements.

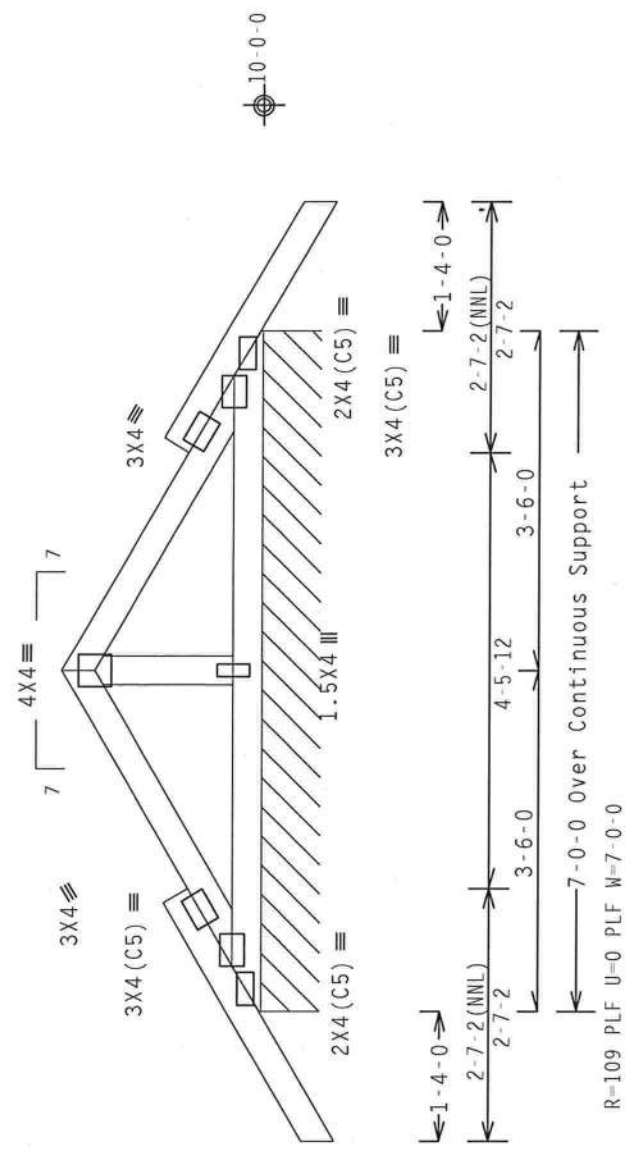
Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.

THE BUILDING DESIGNER IS RESPONSIBLE FOR THE DESIGN OF THE ROOF AND CEILING DIAPHRAGMS, GABLE END SHEAR WALLS, AND SUPPORTING SHEAR WALLS. SHEAR WALLS MUST PROVIDE CONTINUOUS LATERAL RESTRAINT TO THE GABLE END. ALL CONNECTIONS TO BE DESIGNED BY THE BUILDING DESIGNER.

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. Iw=1.00 GCpi(+/-)=0.18

Wind reactions based on MWFRS pressures.

Stacked top chord must NOT be notched or cut in area (MNL).
Dropped top chord braced at 24" o.c. intervals. Attach stacked top chord (SC) to dropped top chord in notchable 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 notchable area using 3x6.



PLT TYP. Wave

Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/0(0) 7.36.00

Scale = .5" / Ft.

TC LL	20.0 PSF	REF	R8228- 48750
TC DL	10.0 PSF	DATE	10/09/08
BC DL	10.0 PSF	DRW	HCUSR8228 08283029
BC LL	0.0 PSF	HC-ENG	JB/AP
TOT.LD.	40.0 PSF	SEQN-	107745
DUR.FAC.	1.25	FROM	AH
SPACING	24.0"	JREF-	1TLMR228Z02

ALPINE

ITW Building Components Group Inc.

Haines City, FL 33844

FL 000-00278

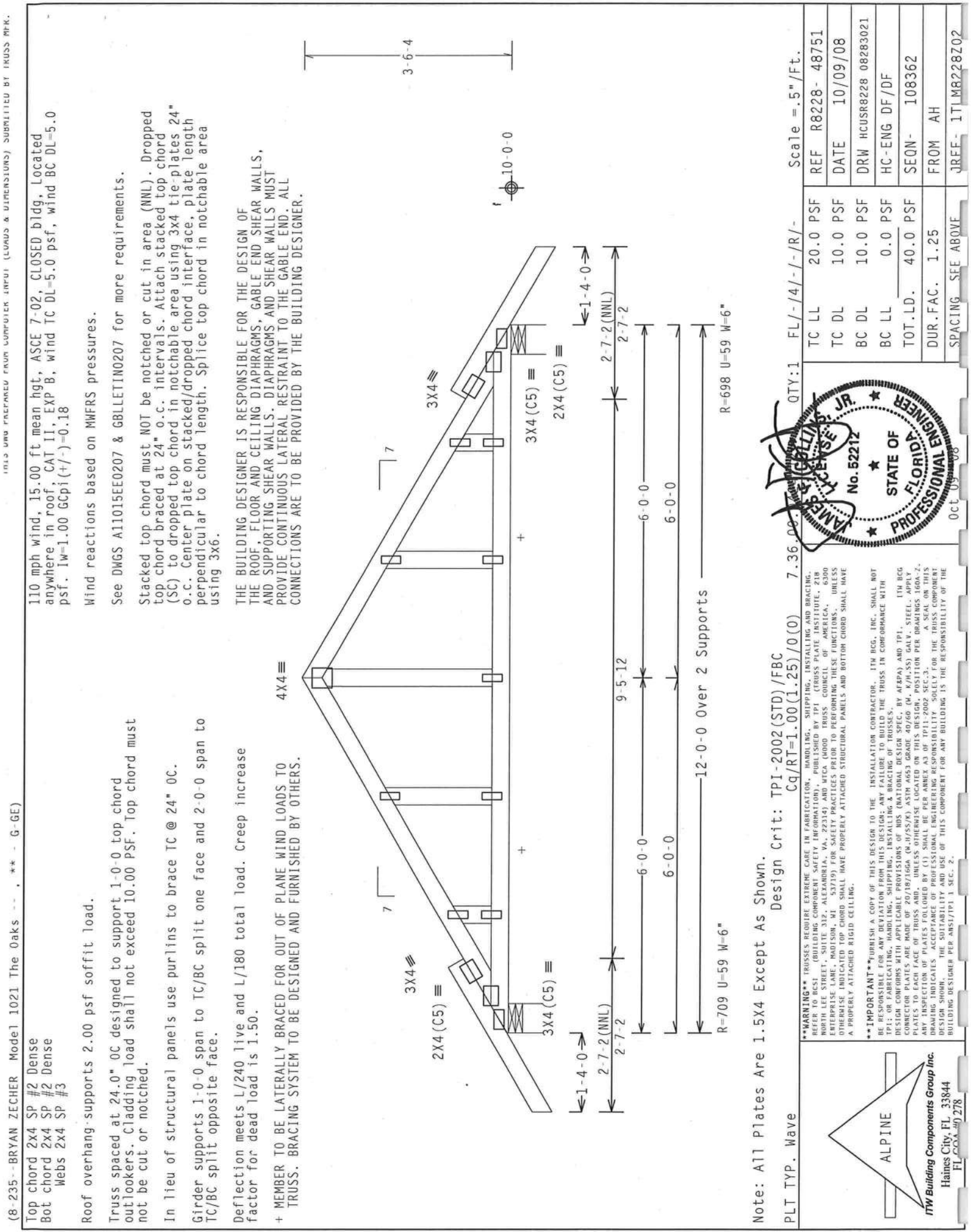
JAMES A. GALLAGHER, JR.

No. 52212

STATE OF FLORIDA

PROFESSIONAL ENGINEER

Oct 09 2008



(8-235--BRYAN ZECHER Model 1021 The Oaks --, ** - G-GE)

Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3

Roof overhang supports 2.00 psf soffit load.

Truss spaced at 24.0" OC designed to support 1-0-0 top chord outlookers. Cladding load shall not exceed 10.00 PSF. Top chord must not be cut or notched.

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

Girder supports 1-0-0 span to TC/BC split one face and 2-0-0 span to TC/BC split opposite face.

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

+ MEMBER TO BE LATERALLY BRACED FOR OUT OF PLANE WIND LOADS TO TRUSS. BRACING SYSTEM TO BE DESIGNED AND FURNISHED BY OTHERS.

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg. Located anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. lw=1.00 GCpi (+/-)-0.18

Wind reactions based on MMFRS pressures.

See DWGS A11015EE0207 & GBLLETIN0207 for more requirements.

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.

THE BUILDING DESIGNER IS RESPONSIBLE FOR THE DESIGN OF THE ROOF, FLOOR AND CEILING DIAPHRAGMS, GABLE END SHEAR WALLS, AND SUPPORTING SHEAR WALLS. DIAPHRAGMS AND SHEAR WALLS MUST PROVIDE CONTINUOUS LATERAL RESTRAINT TO THE GABLE END. ALL CONNECTIONS ARE TO BE PROVIDED BY THE BUILDING DESIGNER.

Note: All Plates Are 1.5X4 Except As Shown.

Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/0(0)

PLT TYP. Wave

QTY:1 FL/-/4/-/R/- Scale = .5" /Ft.

TC LL	20.0 PSF	REF	R8228- 48751
TC DL	10.0 PSF	DATE	10/09/08
BC DL	10.0 PSF	DRW	HCUSR8228 08283021
BC LL	0.0 PSF	HC-ENG	DF/DF
TOT.LD.	40.0 PSF	SEQN-	108362
DUR.FAC.	1.25	FROM	AH
SPACING	SEE ABOVE	QREF-	1TLM8228202

ALPINE

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

WARNING** TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO RCSI (BUILDING COMPONENT SAFETY INFORMATION) PUBLISHED BY THE NATIONAL TRUSS MANUFACTURERS ASSOCIATION, 100 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22304; AND WCA (WOOD CONNECTOR PLATES) PUBLISHED BY THE NATIONAL TRUSS MANUFACTURERS ASSOCIATION, 100 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22304; AND WCA (WOOD CONNECTOR PLATES) PUBLISHED BY THE NATIONAL TRUSS MANUFACTURERS ASSOCIATION, 100 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22304; PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

****IMPORTANT**** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ITW BCG, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN; ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI1; OR FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC., BY AF&PA) AND TPI1. CONNECTOR PLATES ARE MADE OF 2018/166A (4-10/55/K) ASTM A653 GRADE 40/60 (W, K/H-SS) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-2. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF TPI1-2002 SEC.3. A SEAL ON THIS DESIGN SHALL BE THE SIGNATURE OF THE PROFESSIONAL ENGINEER RESPONSIBLE FOR THE TRUSS COMPONENT DESIGN. THE SEAL OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.

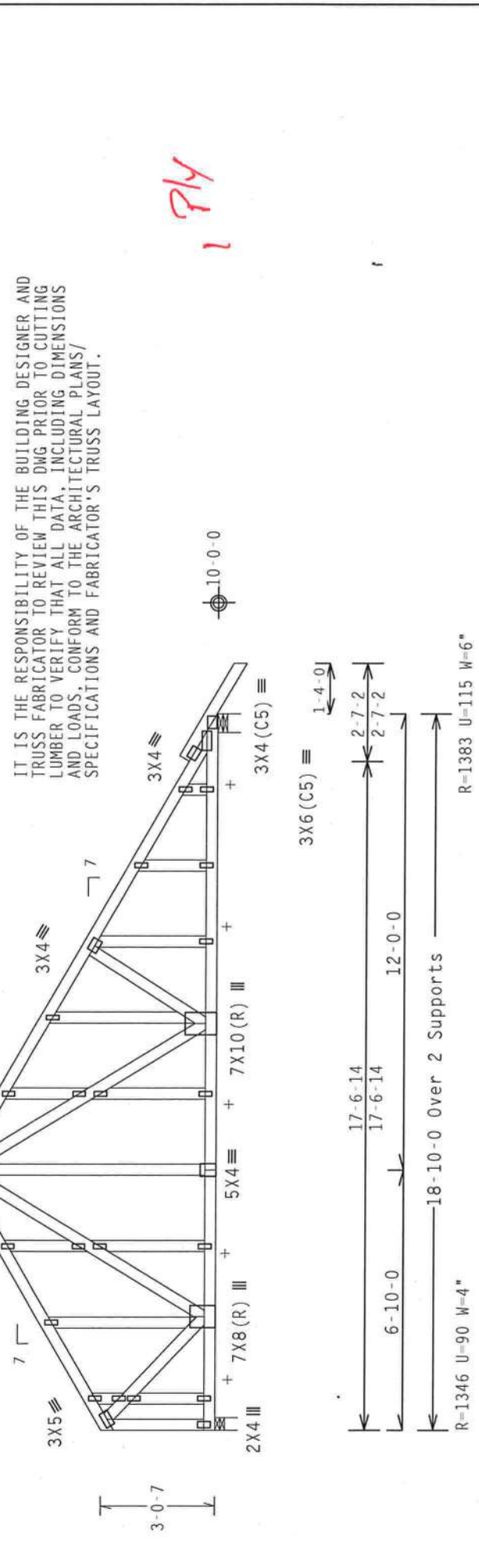
JAMES E. COLLINS, JR.
FL. LICENSE No. 52212
STATE OF FLORIDA
PROFESSIONAL ENGINEER
Oct 09 '08

Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3

SPECIAL LOADS
----- (LUMBER DUR.FAC.=1.25 / PLATE DUR.FAC.=1.25)
TC - From 63 PLF at 0.00 to 63 PLF at 6.83
TC - From 63 PLF at 6.83 to 63 PLF at 17.72
TC - From 63 PLF at 17.72 to 63 PLF at 20.17
BC - From 20 PLF at 0.00 to 20 PLF at 6.83
BC - From 20 PLF at 6.83 to 20 PLF at 18.83
BC - From 5 PLF at 18.83 to 5 PLF at 20.17
BC - 241 LB Conc. Load at 13.17

Wind reactions based on MWFRS pressures.
Left end vertical not exposed to wind pressure.
Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.

6X8(R) III
+ MEMBER TO BE Laterally Braced for Out of Plane Wind Loads.
BRACING SYSTEM TO BE DESIGNED AND FURNISHED BY OTHERS.



Note: All Plates Are 1.5X4 Except As Shown.
Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/0(0) 7.36.00(1.25)/0(0) Scale = .25\"/>

PLT TYP. Wave

ALPINE

ITW Building Components Group Inc.
Haines City, FL 33844
FL 000-40278

****WARNING**** TRUSSES REQUIRING EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCST (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI TRUSS PLATE INSTITUTE, 6300 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314, AND NPGA (NATIONAL TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LANE, MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

****IMPORTANT**** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ITW BCG, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN; ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI; OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC., BY AF&PA) AND TPI. ITW BCG CONNECTOR PLATES ARE MADE OF 2018/160A (4-HYSS/4) ASTM A653 GRADE 40/60 (4, K/H-SS) GALV. STEEL. APPLY PLATE TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-2. A SEPARATE SET OF DRAWINGS FOR THE TRUSS COMPONENTS SHALL BE PROVIDED BY THE TRUSS COMPONENT DESIGNER. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.

QTY: 1 FL / - / 4 / - / - / R / - Scale = .25\"/>

TC LL	20.0 PSF	REF	R8228- 48752
TC DL	10.0 PSF	DATE	10/09/08
BC DL	10.0 PSF	DRW	HCUSR8228 08283060
BC LL	0.0 PSF	HC-ENG	JB/AP
TOT.LD.	40.0 PSF	SEQN-	107237
DUR.FAC.	1.25	FROM	AH
SPACING	24.0\"/>	QREF-	1TMR228202

	Top	chord	2x4	SP	#2	Dense
Bot	chord	2x4	SP	#2	Dense	
		webs	2x4	SP	#3	

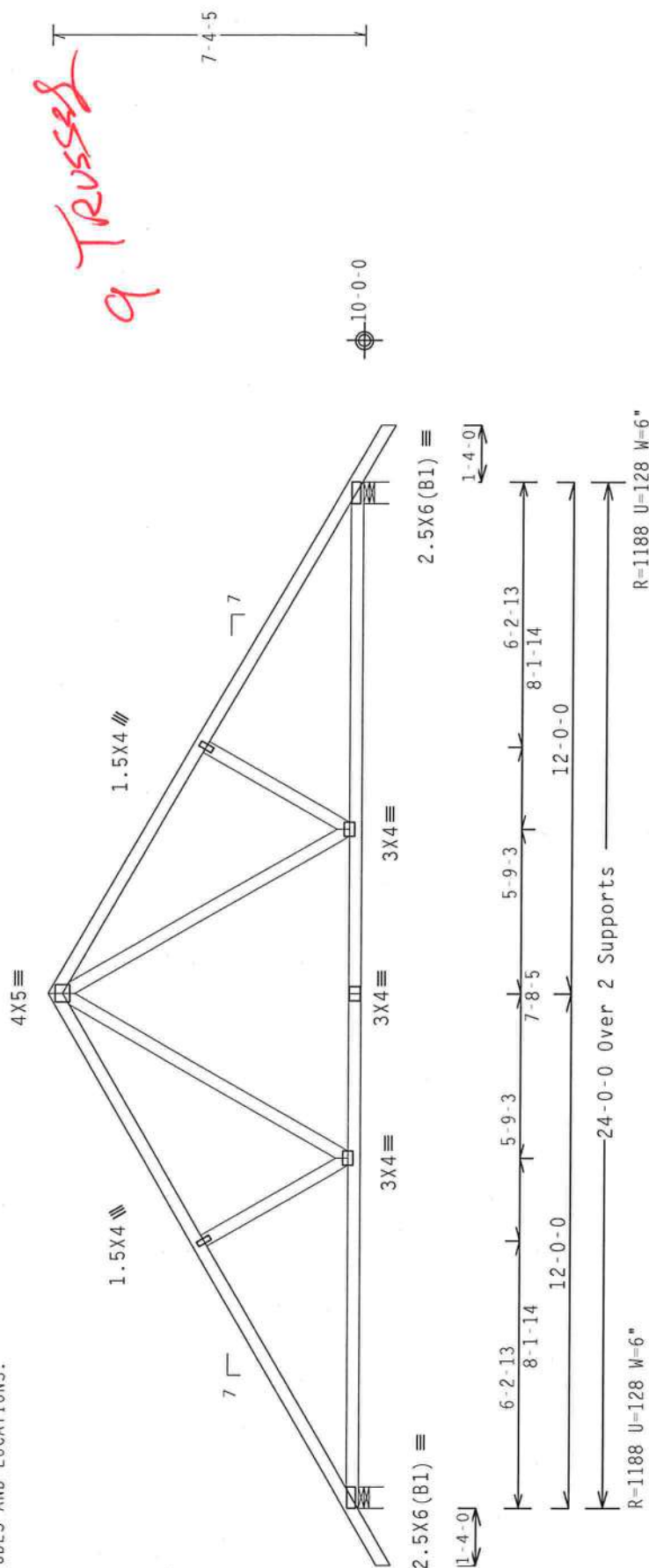
1110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. Iw=1.00 GCpf(+/-)=0.18

SPECIAL LOADS

	(LUMBER DUR.FAC.=1.25 / PLATE DUR.FAC.=1.25)
TC - From	63 PLF at -1.33 to 63 PLF at 12.00
TC - From	63 PLF at -1.33 to 63 PLF at 25.33
1-BC - From	5 PLF at -1.33 to 5 PLF at 0.00
2-BC - From	20 PLF at 0.00 to 20 PLF at 12.00
3-BC - From	20 PLF at 12.00 to 20 PLF at 24.00
4-BC - From	5 PLF at 24.00 to 5 PLF at 25.33
CC -	100 LB Conc. Load at 10.50, 13.50

Wind reactions based on MwFRS pressures.

THE BUILDING DESIGNER SHALL EVALUATE AND APPROVE LOAD MAGNITUDES AND LOCATIONS. TRUSS ENGINEER & FABRICATOR ARE NOT RESPONSIBLE FOR LOAD MAGNITUDES AND LOCATIONS.



Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/

PLT TYP. Wave

Scale = .25"/Ft.

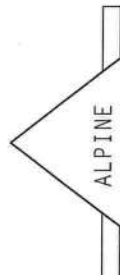
TC LL	20.0 PSF	REF	R8228- 48753
TC DL	10.0 PSF	DATE	10/09/08
BC DL	10.0 PSF	DRW	HCUSR8228 08283022
BC LL	0.0 PSF	HC-ENG	DF/DF
TOT.LD.	40.0 PSF	SEQN-	108366
DUR.FAC.	1.25	FROM	AH
SPACING	SEE ABOVE	JREF-	1TLM8228Z02



****WARNING**** THESE REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. THESE REQUIREMENTS ARE BASED ON THE ASSUMPTION THAT THE USER WILL FOLLOW ALL SAFETY INFORMATION, PUBLISHED BY THIS GROUP'S PLATE INSTITUTE, 218 NORTH LEE STREET, SUITE A-100, CHICAGO, ILLINOIS 60601. IF YOU DO NOT FOLLOW ALL OF THESE REQUIREMENTS, YOUR RISK OF ACCIDENT OR INJURY IS GREATLY INCREASED. IF YOU DO NOT FOLLOW ALL OF THESE REQUIREMENTS, YOUR RISK OF ACCIDENT OR INJURY IS GREATLY INCREASED. IF YOU DO NOT FOLLOW ALL OF THESE REQUIREMENTS, YOUR RISK OF ACCIDENT OR INJURY IS GREATLY INCREASED.

****IMPORTANT****FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR, ITW BEG, INC., SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN; ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH IPT1; OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES.

DESIGN COMPLIANTS WITH AISC (NATIONAL DESIGN SPEC., BY AISC) AND TPI. 1TH BIC.
CONNECTION PLATES WERE APPLIED OF 20/10/16GA. (4, 41/55) ASTM A563 GRADE 40/60 (4, 41/55) GALV. STEEL. 160A.
PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-2.
ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER AISC 41 OF 1911-2002 SPEC. 3.
DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT
DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE
DESIGNING DESIGNER PER AISC/TPI 1 SEC. 2.



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

(8-235--BRYAN ZECHER Model 1021 The Oaks -- , ** - H2)

Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3

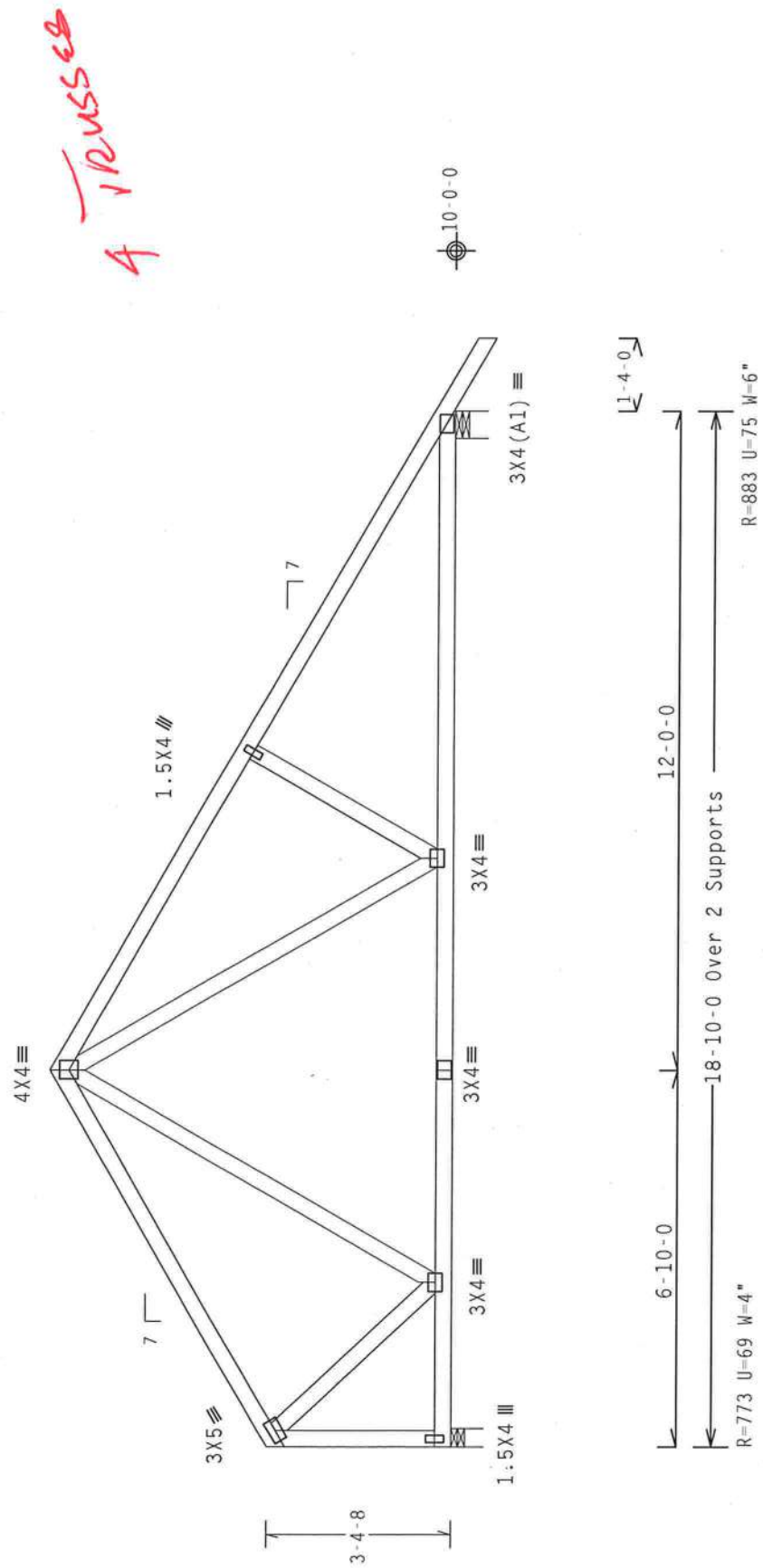
110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf, 1w=1.00 GCpi(+/-)=0.18

Wind reactions based on MMFRS pressures.

Left end vertical not exposed to wind pressure.

Roof overhang supports 2.00 psf soffit 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: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/0(0) 7.36 00 04 2004 QTY:1 FL/-/4/-/R/- Scale = .3125"/Ft.

TC LL	20.0 PSF	REF	R8228 - 48754
TC DL	10.0 PSF <td>DATE</td> <td>10/09/08</td>	DATE	10/09/08
BC DL	10.0 PSF <td>DRW</td> <td>HCUSR8228 08283003</td>	DRW	HCUSR8228 08283003
BC LL	0.0 PSF <td>HC-ENG</td> <td>JB/AP *</td>	HC-ENG	JB/AP *
TOT.LD.	40.0 PSF <td>SEQN -</td> <td>107213</td>	SEQN -	107213
DUR.FAC.	1.25 <td>FROM</td> <td>AH</td>	FROM	AH
SPACING	24.0"	QRFF -	1TLM8228202

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

JAMIE S. COLLINS JR.
No. 52242
STATE OF FLORIDA
PROFESSIONAL ENGINEER
Oct 09 2008

****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSI (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI, 1000 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314, AND NTC (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LANE, MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

****IMPORTANT**** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ITW BCG, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN; ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. ITW BCG DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF HUD NATIONAL DESIGN SPEC. BY AFAPA) AND TPI. ITW BCG CONNECTION PLATES ARE MADE OF 2010/1666 (4-H/55/73) ASH A653 GRADE 40/60 (4, 8/21.55) GALV. STEEL. APPLY PERMANENT IDENTIFICATION MARKS TO ALL TRUSS MEMBERS. SMALL PERMANENT IDENTIFICATION MARKS SHALL BE PLACED ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.

Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3

Roof overhang supports 2.00 psf soffit load.

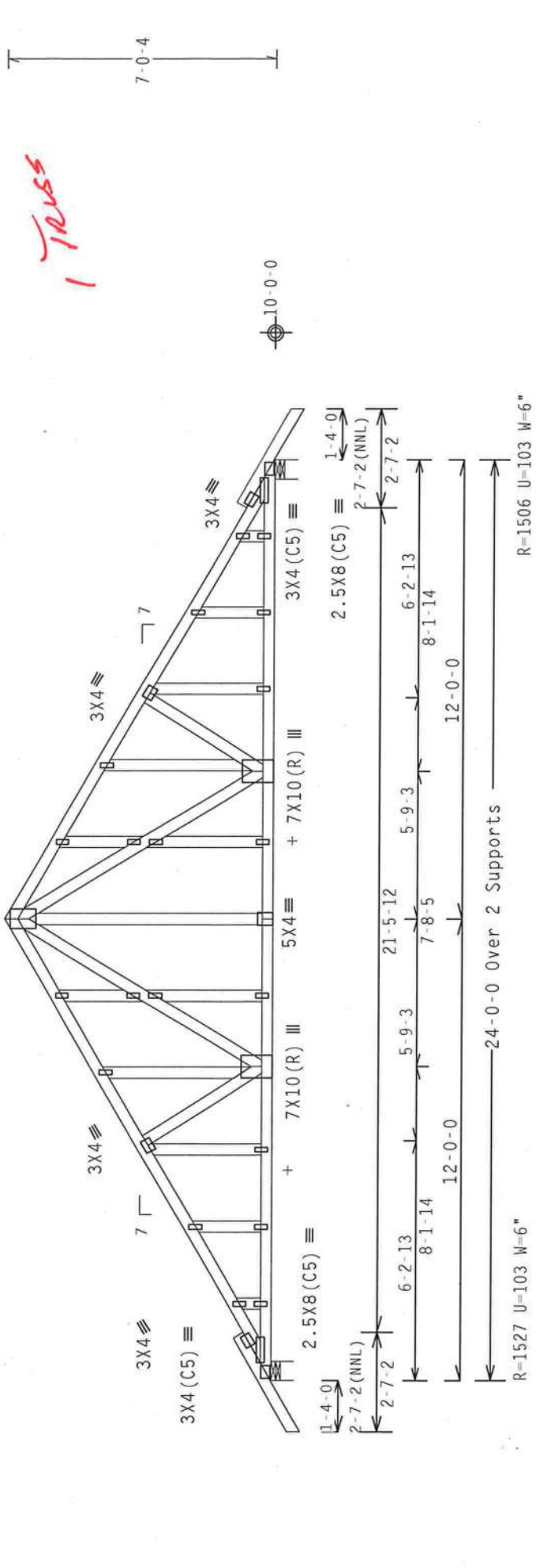
Truss spaced at 24.0" OC designed to support 1-0-0 top chord outlookers. Cladding load shall not exceed 10.00 PSF. Top chord must not be cut or notched.

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

Girder supports 1-4-0 span to TC/BC split one face and 2-0-0 span to TC/BC split opposite face.

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

+ MEMBER TO BE Laterally Braced for Out of Plane Wind Loads to Truss. Bracing System to be Designed and Furnished by Others.



Note: All Plates Are 1.5X4 Except As Shown.
Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/0(0)

PLT TYP. Wave

ALPINE

ITW Building Components Group Inc.
Haines City, FL 33844
FL 000000278

Scale = .25" / Ft.

REF	R8228- 48755
DATE	10/09/08
DRW	HCUSR8228 08283023
HC-ENG	DF/DF
SEQN-	108358
FROM	AH
JREF-	1TLM8228Z02

QTY: 1

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	SEE ABOVE

Oct 09 '08

JAMES S. BULLINS, JR.
No. 52212
STATE OF FLORIDA
PROFESSIONAL ENGINEER

Oct 09 '08

PLT TYP. Wave

Scale = .25" / Ft.

QTY: 1

FL / - / 4 / - / - / R / -

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 SEE ABOVE

JREF- 1TLM8228Z02

****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BEST BUILDING COMPONENT SAFETY INFORMATION, PUBLISHED BY TPI, LOCATED AT THE BOTTOM OF EACH TRUSS. NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND MICA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LANE, MAIDEN, MA 02148) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

****IMPORTANT**** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ITW BCG, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN; ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI; OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF IBC (NATIONAL DESIGN SPEC, BY AREA) AND TPI. CONNECTOR PLATES ARE MADE OF 2018/166A (40/55/K) ASTM A503 GRADE 40/60 (4, K/M,SS) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-2. TRUSS FABRICATOR SHALL FOLLOW BY (3) SHALL BE PER ANNEX A3 OF TPI-2002 SECC.3. A SEAL ON THIS DRAWING INDICATES THE SUITABILITY AND USE OF THIS COMPONENT FOR THE TRUSS COMPONENT DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.

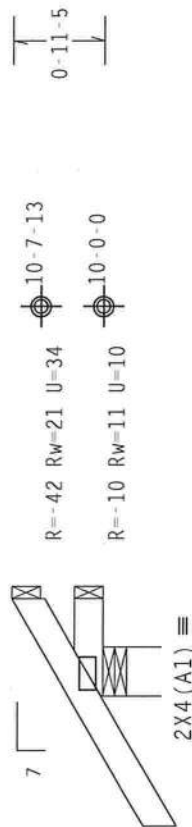
Top chord	2x4	SP	#2	Dense
Bot chord	2x4	SP	#2	Dense

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. Iw=1.00 GCpi (+/-)=0.18

Roof overhang supports 2.00 psf soffit load.

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

Wind reactions based on MWFRS pressures.



1-4-0
1-0-0 Over 3 Supports
R=225 W=6.5

Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/

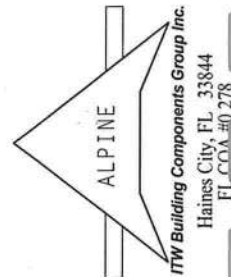
7.36.00

QTY:1 FI 1-141-1-1R1-

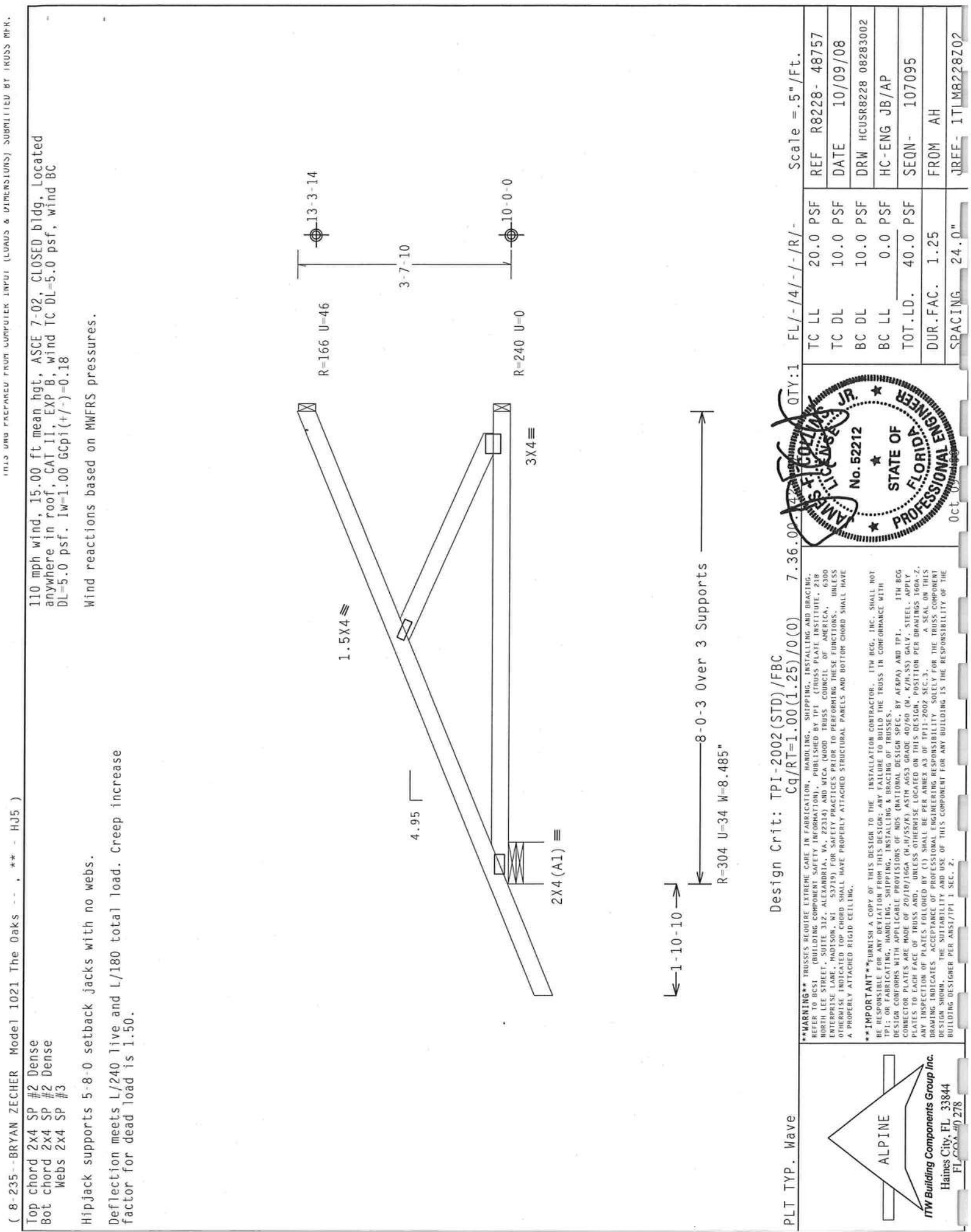
$$\text{Scale} = 5''/\text{Ft}$$

WARNING THUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. PROPERLY ATTACHED RIGID CUTTING OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE PROPERLY ATTACHED RIGID CUTTING

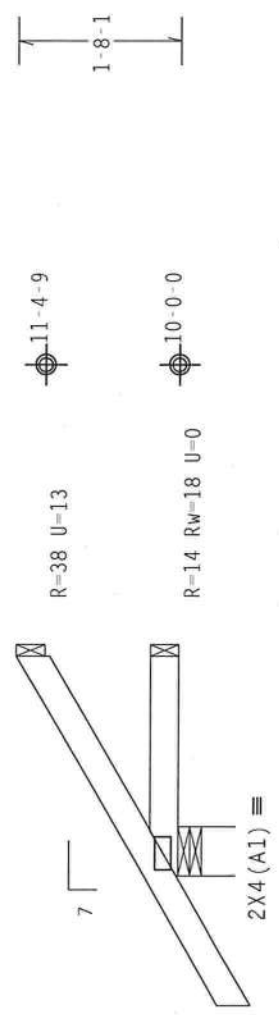
IMPORTANT-FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR-ITM BEG., INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN; ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPTI OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES, BY AFPMAs AND TPTI, ITM BEG. CONNECTIONS WITH UNLAWFUL PROVISIONS OF AOS (NATIONAL DESIGN SPEC., BY AFPMAs) AND TPTI, ITM BEG. PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-2. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A OF TPTI-2009 SEC.3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT OF THIS DESIGN. THE SEAL OF THE REGISTERED PROFESSIONAL ENGINEER IS REQUIRED FOR THE TRUSS COMPONENT OF THE BUILDING DESIGNER PER ANSPART1-11-15-2.



TC LL	20.0	PSF	REF	R8228-	48756
TC DL	10.0	PSF	DATE	10/09/08	
BC DL	10.0	PSF	DRW	HCUSR8228	08283007
BC LL	0.0	PSF	HC-ENG	JB/AP	
TOT.LD.	40.0	PSF	SEQN-	107080	
DUR.FAC.	1.25		FROM	AH	
SPACING	24.0"		JREF-	1TLM8228Z02	



Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Roof overhang supports 2.00 psf soffit load.
Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.
110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. Iw=1.00 GCpi(+/-)=0.18
Wind reactions based on MWFRS pressures.



1-4-0
2-3-0 Over 3 Supports
R=225 U=20 W=6

PLT TYP. Wave		Design Crit: TPI-2002(STD)/FBC Cq/RT=1.00(1.25)/0(0)		7.36.00	QTY:1	FL/-/4/-/-/R/-	Scale = 5"/Ft.
ALPINE		R-38 U=13		11-4-9		TC LL	20.0 PSF
R-14 Rw=18 U=0		10-0-0		1-8-1		TC DL	10.0 PSF
R=225 U=20 W=6		2X4 (A1)		7		BC DL	10.0 PSF
2-3-0 Over 3 Supports		1-4-0		1		BC LL	0.0 PSF
R=225 U=20 W=6		1-8-1		f		TOT.LD.	40.0 PSF
1-4-0		1-8-1		f		DUR.FAC.	1.25
2-3-0 Over 3 Supports		1-8-1		f		SPACING	24.0"
R=225 U=20 W=6		1-8-1		f		REF	R8228- 48760
1-4-0		1-8-1		f		DATE	10/09/08
2-3-0 Over 3 Supports		1-8-1		f		DRW	HCUSR8228 08283004
R=225 U=20 W=6		1-8-1		f		HC-ENG	JB/AP
1-4-0		1-8-1		f		SEQN-	107426
2-3-0 Over 3 Supports		1-8-1		f		FROM	AH
R=225 U=20 W=6		1-8-1		f		QREF-	1TLM8228Z02

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. Iw=1.00 GCpi(+/-)=0.18

Wind reactions based on MWFRS pressures.

Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/0(0)

7.36.00

QTY:1

FL/-/4/-/-/R/-

Scale = 5"/Ft.

11-4-9

10-0-0

1-8-1

7

2X4 (A1)

2-3-0 Over 3 Supports

R=225 U=20 W=6

1-4-0

1-8-1

f

REF R8228- 48760

DATE 10/09/08

DRW HCUSR8228 08283004

HC-ENG JB/AP

SEQN- 107426

FROM AH

QREF- 1TLM8228Z02

ALPINE

RTW Building Components Group Inc.

Haines City, FL 33844

FL 33844 278

Professional Engineer

STATE OF FLORIDA

No. 52212

JAMES E. PLAINS, JR.

Oct 09 08

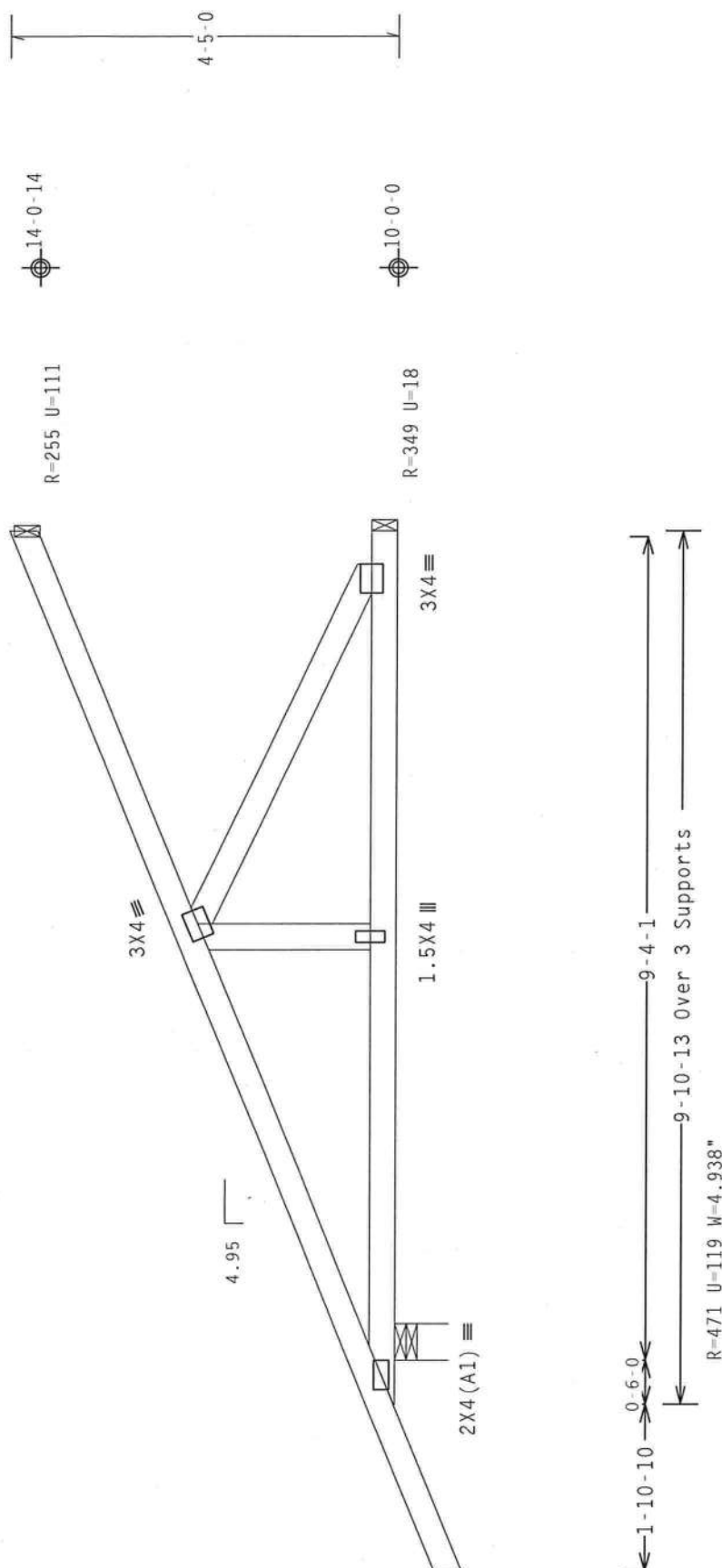
	Top	chord	2x4	SP	#2	Dense
Bot	chord	2x4	SP	#2	Dense	
	webs	2x4	SP	#3	Dense	

11110 mph wind, 15.00 ft mean hgt, ASCE 7-02, PART_ENC. bldg, located anywhere in roof, CAT 11, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. Iw=1.00 GCpi(+/-)=0.55

Hipjack supports 7-0-0 setback jacks with no webs.

Wind reactions based on MWFRS pressures.

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

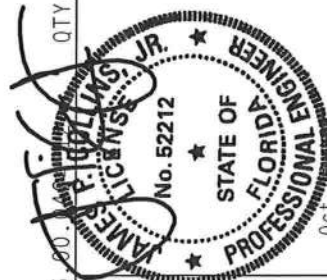


Design Crit: TPI-2002(STD)/FBC

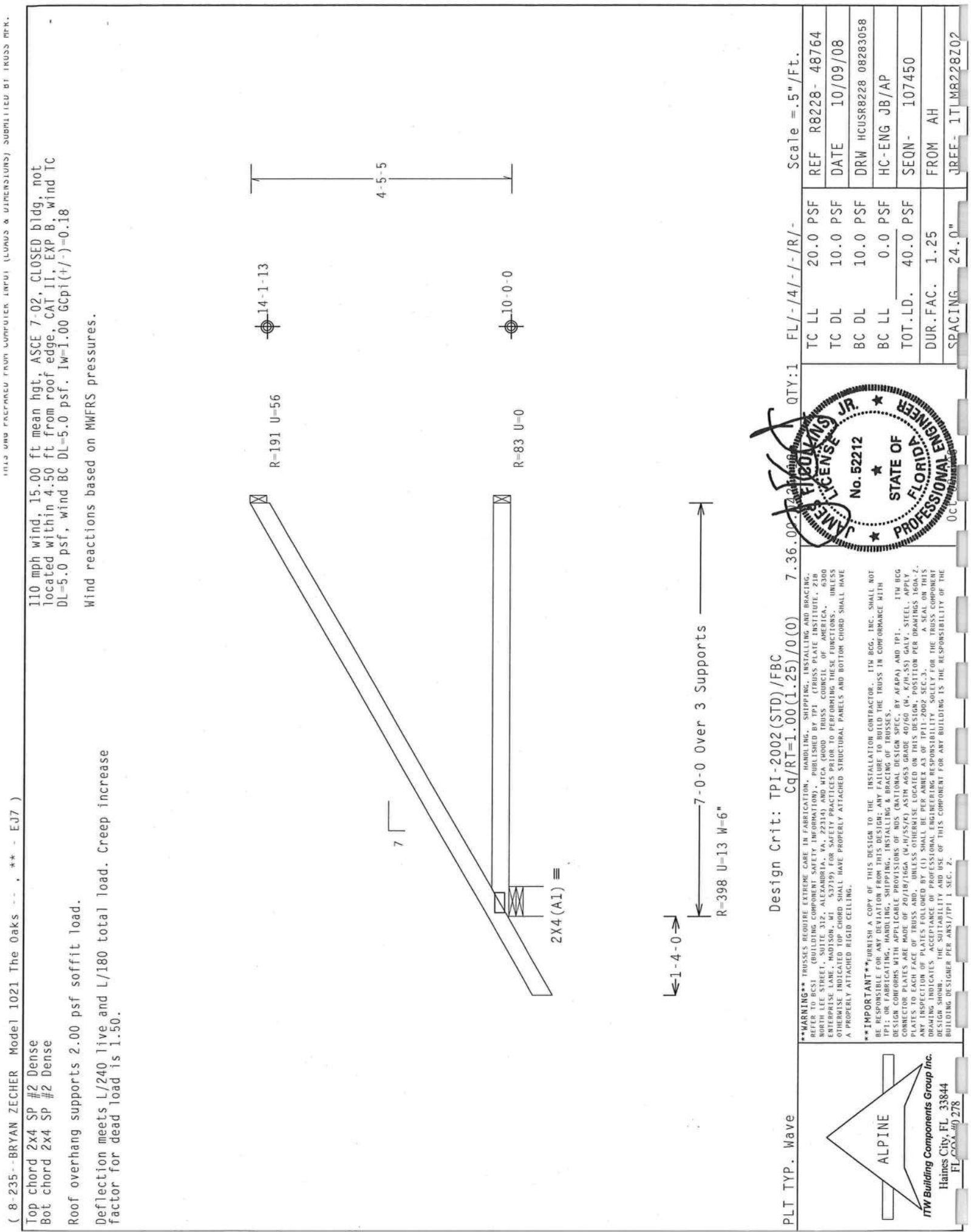
QTY:1 FL/-/4/-/-/R/-/-
Scale = .5"/Ft.

PLT TYP. Wave

***WARNING:** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. UNPROPERLY DESIGNED OR CONSTRUCTED TRUSSES CAN BE DANGEROUS TO THE PUBLIC. FOR MORE INFORMATION CONTACT THE NORTH LEE STREET, SUITE 319, ALEXANDRIA, VA 22304. METCON TRUSS COMPANY, INC., 700 WILSON BLVD., SUITE 100, FARMERSBURGH, NY 11737. IF YOU ARE AN ARCHITECT, ENGINEER, CONTRACTOR, OR OTHER TRADE PERSONNEL, PLEASE ADVISE US OF YOUR INTEREST IN OUR PRODUCTS BY MAILING THIS CARD TO: METCON TRUSS COMPANY, INC., 700 WILSON BLVD., SUITE 100, FARMERSBURGH, NY 11737.

[illegible]

TC LL	20.0	PSF	REF	R8228-	48763
TC DL	10.0	PSF	DATE	10/09/08	
BC DL	10.0	PSF	DRW	HCUSR8228	08283047
BC LL	0.0	PSF	HC-ENG	JB/AP	
TOT.LD.	40.0	PSF	SEQN-	107446	
DUR.FAC.	1.25		FROM	AH	
SPACING	24.0"	'	JREF-	1TLM8228	702



(8-235--BRYAN ZECHER Model 1021 The Oaks -- ** - EJ7)

Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Roof overhang supports 2.00 psf soffit load.
Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. Iw=1.00 Gcpi(+/-)=0.18
Wind reactions based on MWFRS pressures.

Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/0(0) 7.36.00

PLT TYP. Wave

Scale = .5" / Ft.

QTY: 1

FL / - / 4 / - / R / -

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"

REF R8228 - 48764

DATE 10/09/08

DRW HCUSR8228 08283058

HC-ENG JB/AP

SEQN- 107450

FROM AH

QREF- 1TMR228Z02

ITW Building Components Group Inc.
Haines City, FL 33844
FL 33844-278

ALPINE

ITW Building Components Group Inc.
Haines City, FL 33844
FL 33844-278

Professional Engineer
No. 52212
STATE OF FLORIDA
JAMES H. BOLKINS JR.

0C

0C

0C

0C

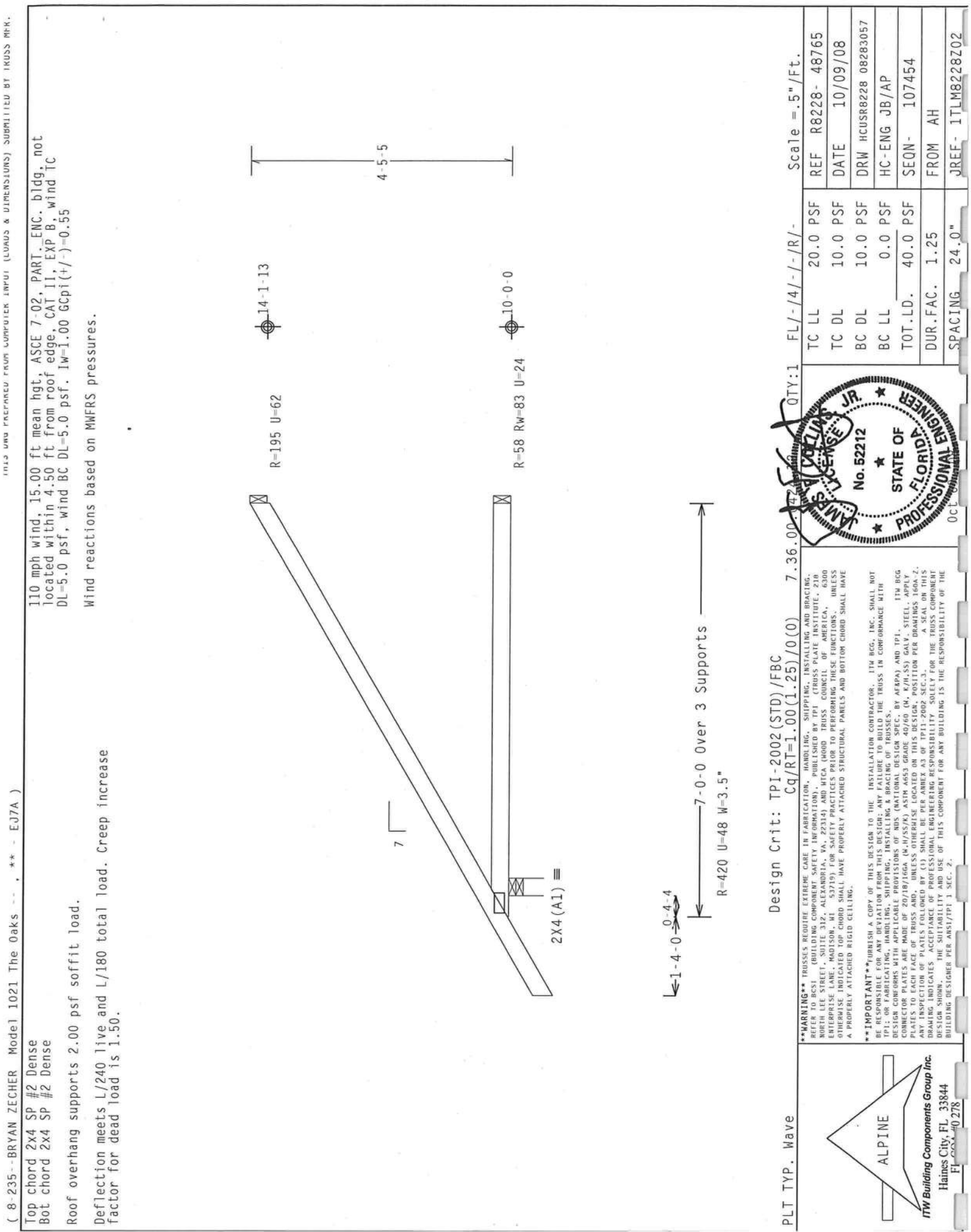
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THIS WAS PREPARED FROM COMPUTER INPUT (LOADS & DIMENSIONS) SUBMITTED BY IKUSS MEK.

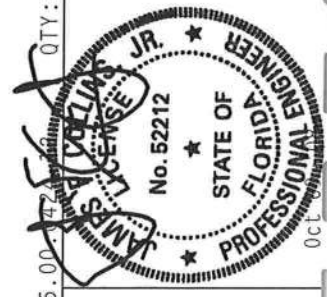
(8-235--BRYAN ZECHER Model 1021 The Oaks -- ** - EJ7A)

Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Roof overhang supports 2.00 psf soffit load.
Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, PART-ENC. bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf, 1w=1.00 Gpf(+/-)=0.55

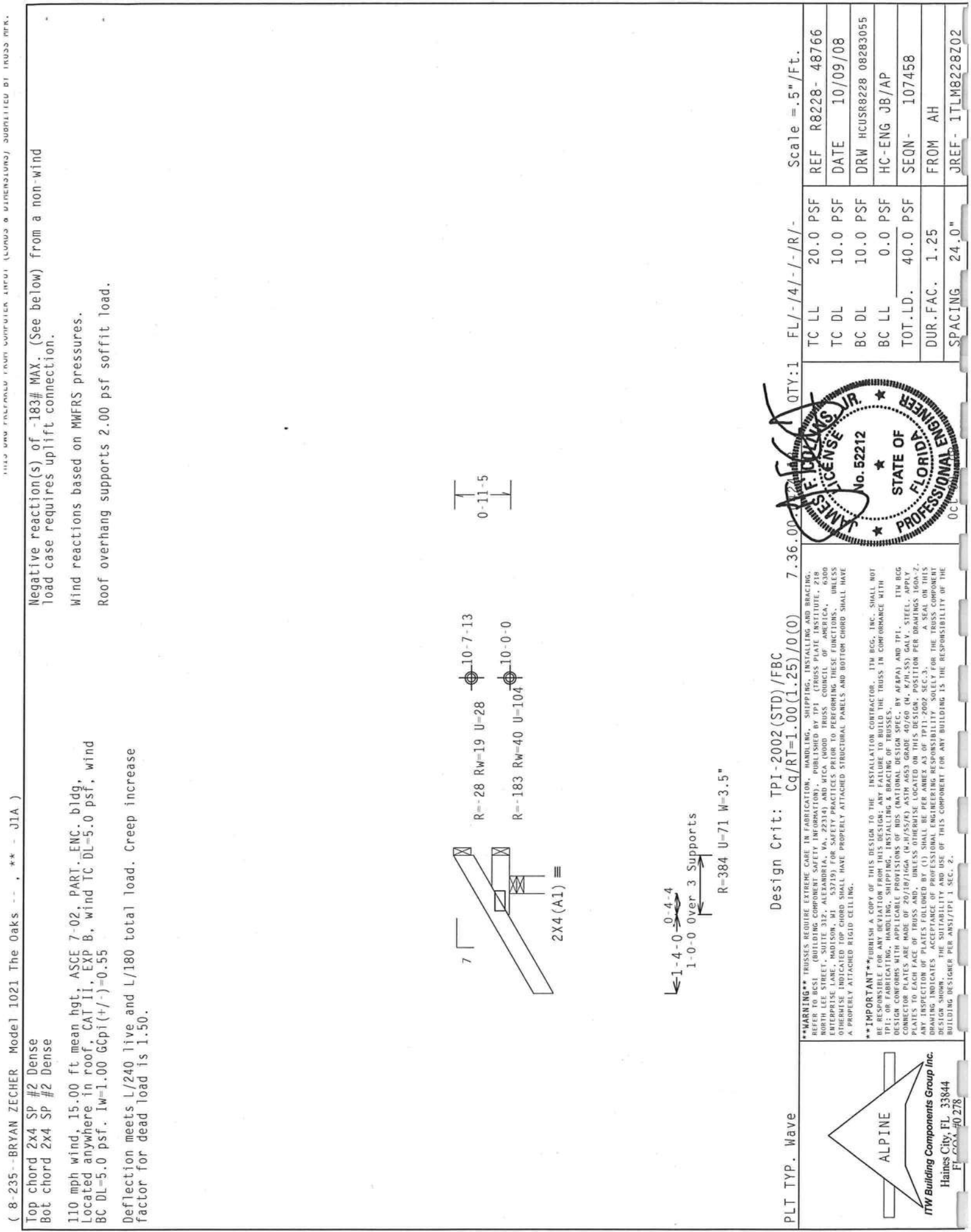
Wind reactions based on MWFRS pressures.

PLT TYP. Wave	Design Crit: TPI-2002(STD)/FBC Cq/RT=1.00(1.25)/0(0)	7.36.00	QTY:1	FL/-/4/-/-/R/-	Scale = .5"/Ft.
ALPINE	ITW Building Components Group Inc. Haines City, FL 33844 FL 08840 278	REF R8228- 48765	TC LL	20.0 PSF	DATE 10/09/08
		DATE 10/09/08	TC DL	10.0 PSF	DRW HCUSR8228 08283057
			BC DL	10.0 PSF	HC-ENG JB/AP
			BC LL	0.0 PSF	SEQN- 107454
			TOT.LD.	40.0 PSF	FROM AH
			DUR.FAC.	1.25	JREF- 1TLM8228Z02
			SPACING	24.0"	



****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSI (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE), 210 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND MITCA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LANE, MADISON, MI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

****IMPORTANT**** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ITW BCG, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN; ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI1 OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. ITW BCG DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AIA/P&J AND TPI). ITW BCG CONNECTOR PLATES ARE MADE OF 2018/16GA (44-H/55/K) ASTM A653 GRADE 40/60 (4, K/M,SS) GALV. STEEL. APPLY ANY INSPECTION OF PLATES FOLLOWED BY A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY. SELLER FOR THE TRUSS IS THE DESIGNER SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.



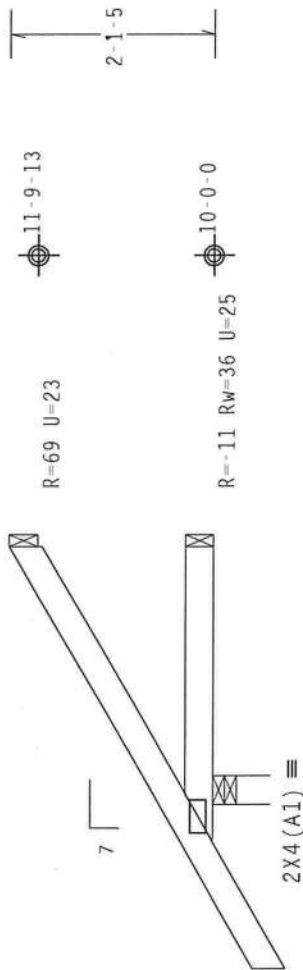
Top chord	2x4	SP	#2	Dense
Bot chord	2x4	SP	#2	Dense

1110 mph wind, 15.00 ft mean hgt; ASCE 7-02, PART_ENC.bldg,
Located anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind
BC DL=5.0 psf. Iw=1.00 GCpi (+/-)=0.55

Roof overhang supports 2.00 psf soffit load.

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

Wind reactions based on MWFRS pressures.


$$L_{\infty} = 1 - 1 - 0 - \frac{0}{0} - 4 - 4$$

3-0-0 Over 3 Supports

R=282 U=34 W=3.5"

PLT TYP. Wave

Design Crit: TPI-2002(STD)/FBC

 $Cq/RT=1.00(1.25)/0(0)$

***WARNING** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING.**

Scale = .5"/Ft.

FL/-/4/-/-/R/-

QTY:1

WARNING THUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLATION AND BRACING. REFER TO DCSP (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY THE THUSS PLATE INSTITUTE, 6300 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314, AND AFCA (WOOD THUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LANE, WAUWATONIA, WI 53219), FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE PROPERLY ATTACHED RIGID CEILING.

TC LL	20.0 PSF
-------	----------

OFF R8228- 48767

****IMPORTANT**** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ITW BCG, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN; ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH THIS DESIGN CONFORMS WITH APPLICABLE PROVISIONS. INSTALLING & BRACING OF TRUSSES BY AFAPA AND TPI. ITW BCG HAS PROVIDED THE FOLLOWING INFORMATION FOR THE DESIGNER'S USE ONLY. KANSAS CITY STEEL FABRICATING CO., 600 WEST 9TH STREET, OMAHA NEB 68102-4701, PHONE (402) 342-2200, FAX (402) 342-2201, WWW.KCSTEEL.COM. CONNECTOR PLATES ARE MADE OF 20X10/16GA. (H/4X5/8). ASTM A563 GRADO 36. ALL WELDS SHALL BE FULL PENETRATION BUTT JOINTS. PLATES TO EACH FACE OF TRUSS AND UNLESS OTHERWISE LOCATED ON THIS DESIGN. POSITION PER DRAWINGS 1601-2. IF AN INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF TP11-2002 SEC.3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT DESIGN SHOWN. THE SUBMITTAL AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.

TC LL	20.0 PSF
-------	----------

OFF R8228- 48767

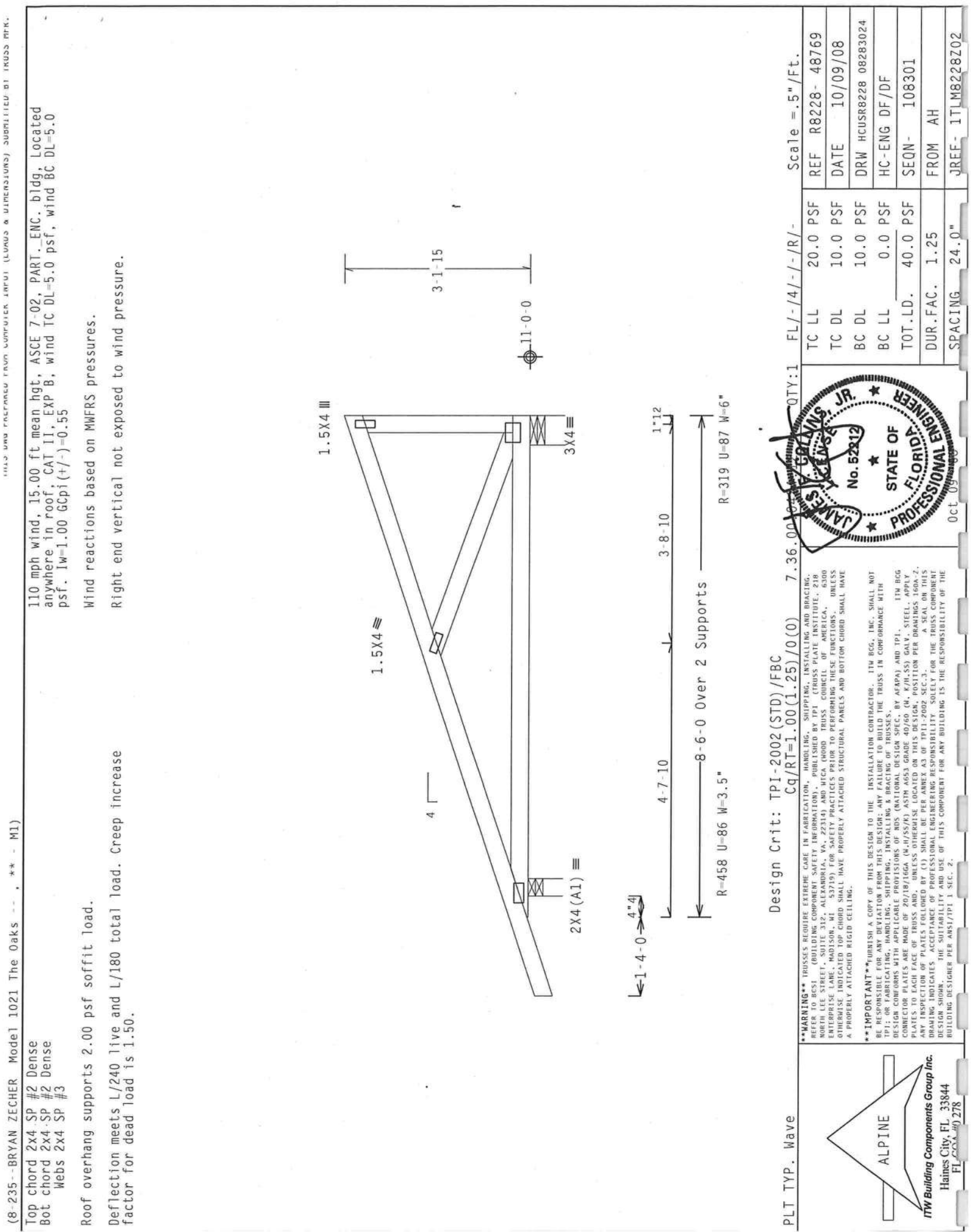
ITW Building Components Group Inc.
Haines City, FL 33844
FL COA #0278

Haines City, FL 33844

nes City, FL 338
FL COA #0778

SPACING 24.0"

URFF- 1T1 M8228702



(8-235--BRYAN ZECHER Model 1021 The Oaks --, ** - M1)

Top chord 2x4-SP #2 Dense
Bot chord 2x4-SP #2 Dense
Webs 2x4 SP #3

Roof overhang supports 2.00 psf soffit load.

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

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, PART-ENC. bldg, located anywhere in roof; CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. Iw=1.00 GCpi (+/-)=0.55

Wind reactions based on MWFRS pressures.

Right end vertical not exposed to wind pressure.

Scale = .5" / Ft.

TC LL	20.0 PSF	REF	R8228- 48769
TC DL	10.0 PSF	DATE	10/09/08
BC DL	10.0 PSF	DRW	HCUSR8228 08283024
BC LL	0.0 PSF	HC-ENG	DF/DF
TOT.LD.	40.0 PSF	SEQN-	108301
DUR.FAC.	1.25	FROM	AH
SPACING	24.0"	QREF-	1TLM8228Z02

Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/0(0) 7.36.00(10.0) QTY:1

FL/- /4/- /- /R/-

Scale = .5" / Ft.

PLT TYP. Wave

Design Crit: TPI-2002(STD)/FBC

Cq/RT=1.00(1.25)/0(0) 7.36.00(10.0) QTY:1

FL/- /4/- /- /R/-

Scale = .5" / Ft.

PLT TYP. Wave

Design Crit: TPI-2002(STD)/FBC

Cq/RT=1.00(1.25)/0(0) 7.36.00(10.0) QTY:1

FL/- /4/- /- /R/-

Scale = .5" / Ft.

PLT TYP. Wave

Design Crit: TPI-2002(STD)/FBC

Cq/RT=1.00(1.25)/0(0) 7.36.00(10.0) QTY:1

FL/- /4/- /- /R/-

Scale = .5" / Ft.

PLT TYP. Wave

Design Crit: TPI-2002(STD)/FBC

Cq/RT=1.00(1.25)/0(0) 7.36.00(10.0) QTY:1

FL/- /4/- /- /R/-

Scale = .5" / Ft.

PLT TYP. Wave

Design Crit: TPI-2002(STD)/FBC

Cq/RT=1.00(1.25)/0(0) 7.36.00(10.0) QTY:1

FL/- /4/- /- /R/-

Scale = .5" / Ft.

PLT TYP. Wave

Design Crit: TPI-2002(STD)/FBC

Cq/RT=1.00(1.25)/0(0) 7.36.00(10.0) QTY:1

FL/- /4/- /- /R/-

Scale = .5" / Ft.

PLT TYP. Wave

Design Crit: TPI-2002(STD)/FBC

Cq/RT=1.00(1.25)/0(0) 7.36.00(10.0) QTY:1

FL/- /4/- /- /R/-

Scale = .5" / Ft.

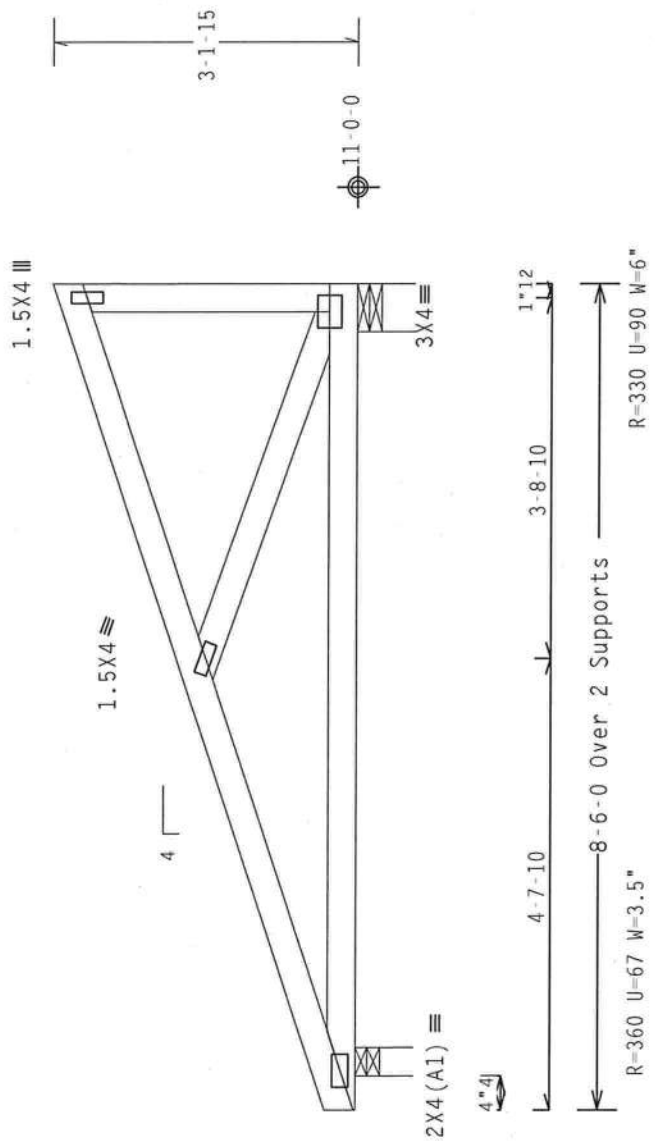
Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3

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

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, PART 1-ENC. bldg, located anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. lw=1.00 GCpi (+/-)=0.55

Wind reactions based on MWFRS pressures.

Right end vertical not exposed to wind pressure.



PLT TYP. Wave

ALPINE

ITW Building Components Group Inc.
Haines City, FL 33844
P.O. Box #0278

Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/0(0)

7.36.00

Scale = .5" / Ft.

QTY: 1

TC LL	20.0 PSF	REF	R8228 - 48770
TC DL	10.0 PSF	DATE	10/09/08
BC DL	10.0 PSF	DRW	HCUSR8228 08283025
BC LL	0.0 PSF	HC-ENG	DF/DF
TOT.LD.	40.0 PSF	SEQN	108307
DUR.FAC.	1.25	FROM	AH
SPACING	24.0"	JREF	1TLM8228Z02

****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BEST BUILDING COMPONENT SAFETY INFORMATION, PUBLISHED BY TPI, TRUSS PLATE INSTITUTE, 6300 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22304 AND MTCA GOOD TRUSS, COUNCIL OF AMERICA, 6300 ENTERPRISE LANE, MADISON, WI 53719 FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

****IMPORTANT**** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ITW BCG, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN; ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI OR FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY ASEP) AND TPI. ITW BCG CONNECTOR PLATES ARE MADE OF 2019/16GA (4-11/16") ASTM A553 GRADE 40/60 (4, 8/16") GALV. STEEL. APPLY AVERAGE WEIGHT OF PLATE TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS (G0A-2). ADVISECTION OF PLATE TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS (G0A-2). DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS INFORMATION DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.

(8-235--BRYAN ZECHER Model 1021 The Oaks --, ** - M3)

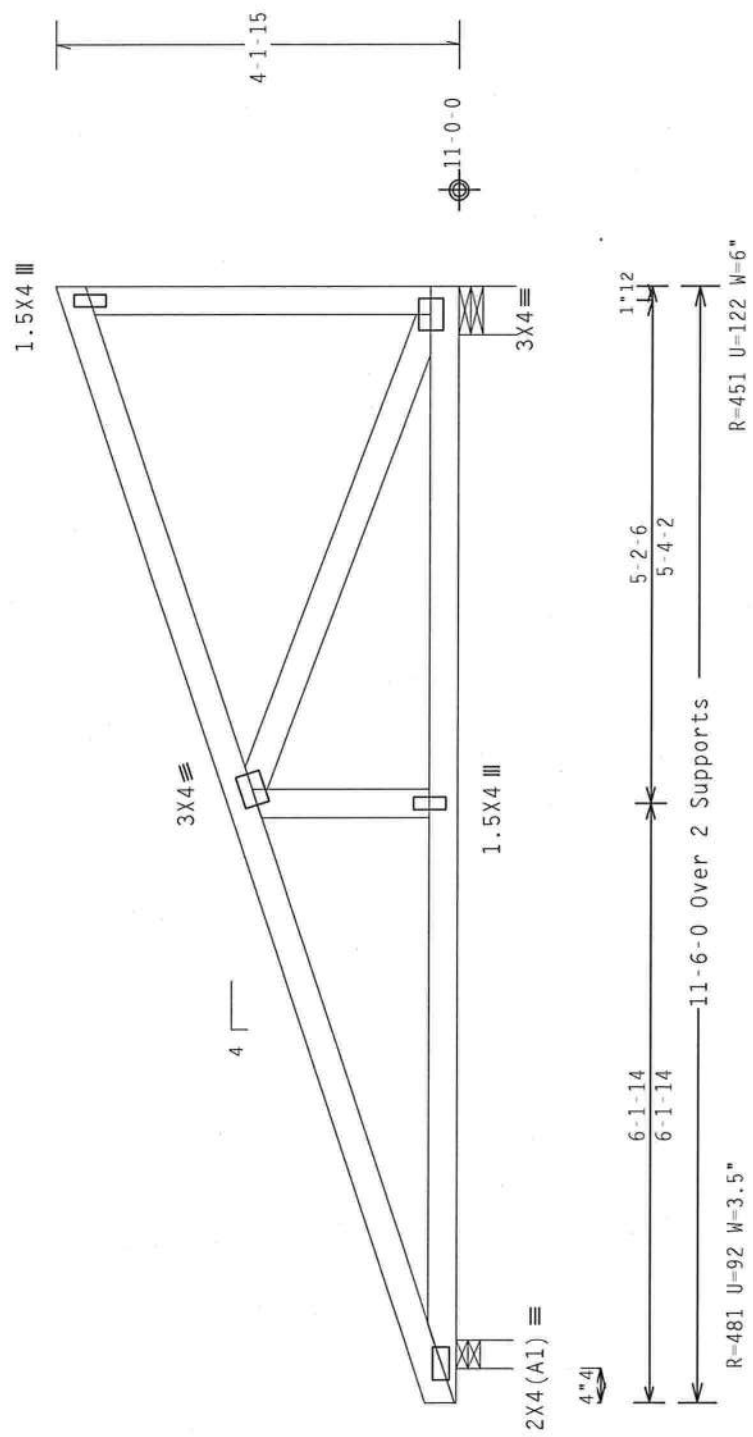
Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3

110 mph wind, 15.00 ft mean hgt. ASCE 7-02, PART-ENC. bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. Iw=1.00 GCpi(+/-)=0.55

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

Wind reactions based on MMFRS pressures.

Right end vertical not exposed to wind pressure.



Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/0(0)

PLT TYP. Wave

7.36.00

QTY:1

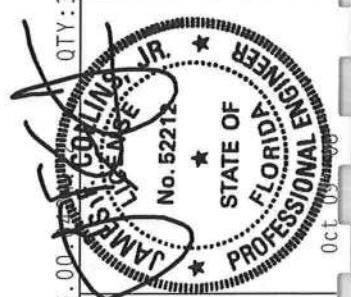
FL/-/4/-/-/R/-

Scale = .5" /Ft.

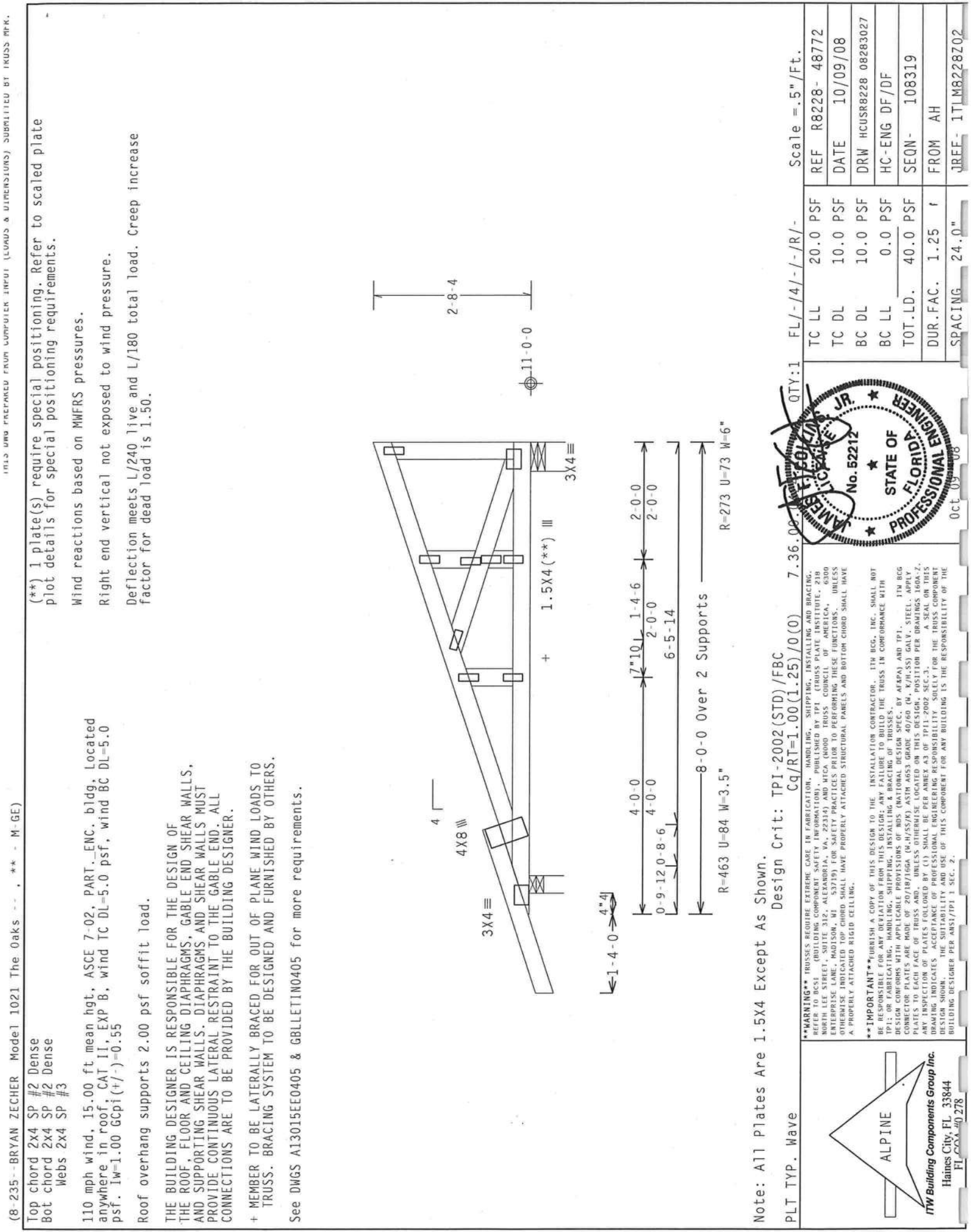
TC LL	20.0 PSF	REF	R8228- 48771
TC DL	10.0 PSF	DATE	10/09/08
BC DL	10.0 PSF	DRW	HCUSR8228 08283026
BC LL	0.0 PSF	HC-ENG	DF/DF
TOT.LD.	40.0 PSF	SEQN-	108312
DUR.FAC.	1.25	FROM	AH
SPACING	24.0"	JREF-	1TLM8228702

****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCS1 (BUILDING COMPONENT SAFETY INFORMATION) PUBLISHED BY THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION, INC., 5300 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314, AND AISC (ARCHITECTURAL) TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LANE, MADISON, WI 53719, FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

****IMPORTANT**** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ITW BCG, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN; ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI; OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AIA/P&A) AND TPI. 1TH BCG CONNECTOR PLATES ARE MADE OF 20/18/16GA (0.0155/0.0106/0.0081) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-2. INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PERFORMED BY THE TRUSS CONTRACTOR. A SEAL ON THIS DESIGN SHALL INDICATE THE CONTRACTOR'S RESPONSIBILITY FOR THE TRUSS COMPONENT DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.



ITW Building Components Group Inc.
Haines City, FL 33844
FL 001-40278



(8-235--BRYAN ZECHER Model 1021 The Oaks --, ** - M-GE)

Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, PART-ENC. bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. $I_w=1.00$ GCpi (+/-)=0.55

Roof overhang supports 2.00 psf soffit load.

THE BUILDING DESIGNER IS RESPONSIBLE FOR THE DESIGN OF THE ROOF, FLOOR AND CEILING DIAPHRAGMS, GABLE END SHEAR WALLS, AND SUPPORTING SHEAR WALLS. DIAPHRAGMS AND SHEAR WALLS MUST PROVIDE CONTINUOUS LATERAL RESTRAINT TO THE GABLE END. ALL CONNECTIONS ARE TO BE PROVIDED BY THE BUILDING DESIGNER.

+ MEMBER TO BE LATERALLY BRACED FOR OUT OF PLANE WIND LOADS TO TRUSS. BRACING SYSTEM TO BE DESIGNED AND FURNISHED BY OTHERS.

See DWGS A13015EE0405 & GBLLETIN0405 for more requirements.

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

Wind reactions based on MMFRS pressures.

Right end vertical not exposed to wind pressure.

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

PLT TYP. Wave

Note: All Plates Are 1.5X4 Except As Shown.

Design Crit: TPI-2002(STD)/FBC

Cq/RT=1.00(1.25)/0(0) 7.36.00

QTY: 1

FL / - / 4 / - / - / R / -

Scale = .5" / Ft.

TC LL	20.0 PSF	REF	R8228- 48772
TC DL	10.0 PSF <td>DATE</td> <td>10/09/08</td>	DATE	10/09/08
BC DL	10.0 PSF	DRW	HCUSR8228 08283027
BC LL	0.0 PSF	HC-ENG	DF/DF
TOT.LD.	40.0 PSF	SEQN-	108319
DUR.FAC.	1.25	FROM	AH
SPACING	24.0"	JREF-	1TLM8228202

ALPINE

ITW Building Components Group Inc.

Haines City, FL 33844

FL COA #0278

WARNING: TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO THE TRUSS MANUFACTURER'S INSTRUCTIONS FOR TRUSS CONSTRUCTION. THE TRUSS MANUFACTURER SHALL BE RESPONSIBLE FOR THE TRUSS DESIGN AND FABRICATION. THE TRUSS MANUFACTURER SHALL BE RESPONSIBLE FOR THE TRUSS DESIGN AND FABRICATION. THE TRUSS MANUFACTURER SHALL BE RESPONSIBLE FOR THE TRUSS DESIGN AND FABRICATION.

IMPORTANT: FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ITW BCG, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI-1 OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC., BY AEPFA) AND TPI-1. CONNECTOR PLATES ARE MADE OF 20/18/16GA (4-H/55/S) ASTM A563 GRADE 40/60 (4, 4/H-55) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-Z. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF TPI-1-2002 SEC.3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY. SOLELY FOR THE TRUSS COMPONENT MANUFACTURER'S USE. THE SEAL SHALL BE PLACED IN THE MIDDLE OF THE TRUSS COMPONENT. THE SEAL SHALL BE PLACED IN THE MIDDLE OF THE TRUSS COMPONENT.

Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3

110 mph wind, 21.17 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=2.0 psf. 1w=1.00 Gcpi(+/-)-0.18

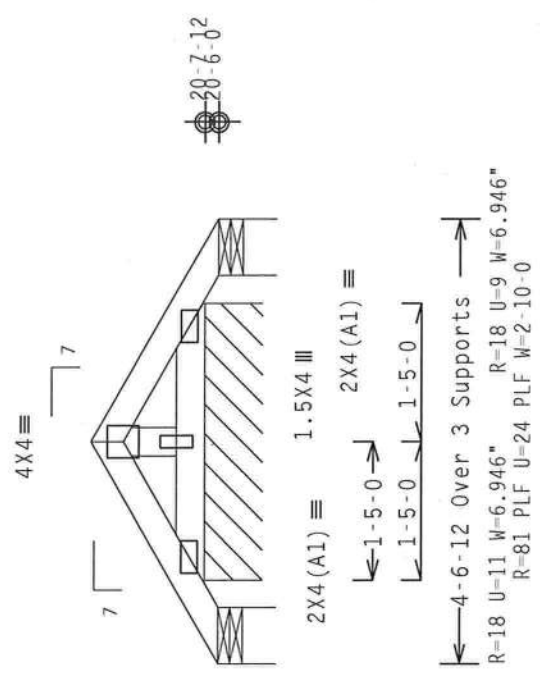
Wind reactions based on MWFRS pressures.

Refer to DWG PIGBACKA0207 or PIGBACKB0207 for piggyback details. PORTION OF TRUSS UNDER PIGGYBACK IS TO BE BRACED @ 24" OC, UNLESS OTHERWISE SPECIFIED.

SPECIAL LOADS

----- (LUMBER DUR.FAC.=1.25 / PLATE DUR.FAC.=1.25)
TC - From 63 PLF at 0.00 to 63 PLF at 2.28
TC - From 63 PLF at 2.28 to 63 PLF at 4.56
BC - From 4 PLF at 0.00 to 4 PLF at 4.56

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



Design Crit: TPI-2002 (STD)/FBC

Cq/RT=1.00(1.25)/0(0)

QTY: 1

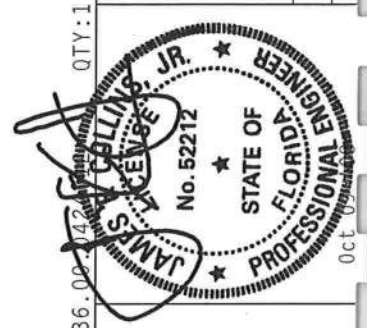
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TC LL	20.0 PSF	REF	R8228- 48773
TC DL	10.0 PSF	DATE	10/09/08
BC DL	10.0 PSF	DRW	HCUSR8228 08283053
BC LL	0.0 PSF	HC-ENG	JB/AP
TOT.LD.	40.0 PSF	SEQN-	107805
DUR.FAC.	1.25	FROM	AH
SPACING	24.0"	JREF-	1TLM8228202

PLT TYP. Wave

****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSI (BUILDING COMPONENT SAFETY INFORMATION) PUBLISHED BY TPI, 1000 INDUSTRIAL BLVD., SUITE 312, ALEXANDRIA, VA, 22304, AND WCA (WOOD TRUSS COUNCIL OF AMERICA), 6300 ENTERPRISE LANE, MADISON, WI 53719, FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

****IMPORTANT**** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ITH BCG, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN; ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI; OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC., BY AF&PA) AND TPI. ITH BCG CONNECTOR PLATES ARE MADE OF 20/18/16GA (4-N/55/S) ASTM A653 GRADE 40/60 (4, K/H-SS) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-2. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF TPI-2002 SEC.3. A SEAL ON THIS DESIGN INDICATES THE DESIGNER'S ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY. SOLELY FOR THE TRUSS COMPONENT DESIGNER'S USE. THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.



ALPINE

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

Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
110 mph wind, 21.00 ft mean hgt, ASCE 7-02, CLOSED bldg, Located
anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC
DL=2.0 psf. lw=1.00 GCpi(+/-)=0.18

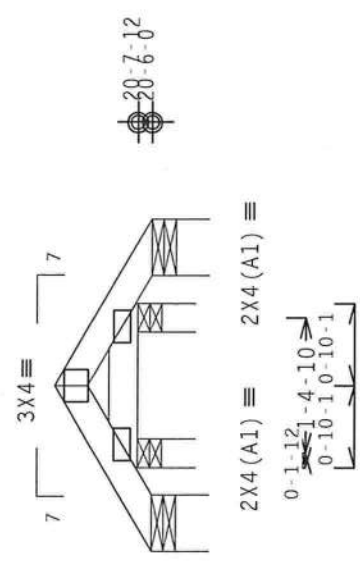
Wind reactions based on MWFRS pressures.
In lieu of rigid ceiling use purlins to brace BC @ 24" OC.
Refer to DWG PIGBACKA0207 or PIGBACKB0207 for piggyback
details. PORTION OF TRUSS UNDER PIGGYBACK IS TO BE
BRACED @ 24" OC, UNLESS OTHERWISE SPECIFIED.

SPECIAL LOADS

----- (LUMBER DUR.FAC.=1.25 / PLATE DUR.FAC.=1.25)
TC - From 63 PLF at 0.00 to 63 PLF at 1.70
TC - From 63 PLF at 1.70 to 63 PLF at 3.40
BC - From 4 PLF at 0.00 to 4 PLF at 3.40

Truss spaced at 24.0" OC designed to support 1-0-0 top chord
outlookers. Cladding load shall not exceed 10.00 PSF. Top chord
must not be cut or notched.

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



<3-4-14 Over 4 Supports >

R=94 U=65 W=3.5"

R=27 U=29 W=6.946"

R=94 U=65 W=3.5" R=27 U=29 W=6.946"

Design Crit: TPI-2002(STD)/FBC

Cq/RT=1.00(1.25)/0(0)

Scale = .5" / Ft.

QTY: 1

FL / - / 4 / - / R / -

	PLT TYP. Wave	REF R8228- 48774
		DATE 10/09/08
		DRW HCUSR8228 08283008
		HC-ENG JB/AP
		SEQN- 107076
		FROM AH
	JREF- 1TLM8228Z02	

****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSI (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 210 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22304) AND MTCA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LANE, MADISON, MI 48071) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

****IMPORTANT**** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ITW BCG, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN; ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI; OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AIA/PJ) AND TPI. ITW BCG CONNECTOR PLATES ARE MADE OF 2018/16GA (4-H/55/9) ASTM A653 GRADE 40/60 (4, 6/11.55) GALV. STEEL. APPLY ANY INSPECTION OF PLATES FOLLOWING BY THE INSTALLER. UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-2. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY FOR THE TRUSS COMPONENT DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.

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

Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3

110 mph wind, 22.07 ft mean hgt, ASCE 7-02, CLOSED bldg, Located
anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC
DL=2.0 psf. lw=1.00 Gcpi(+/-)=0.18

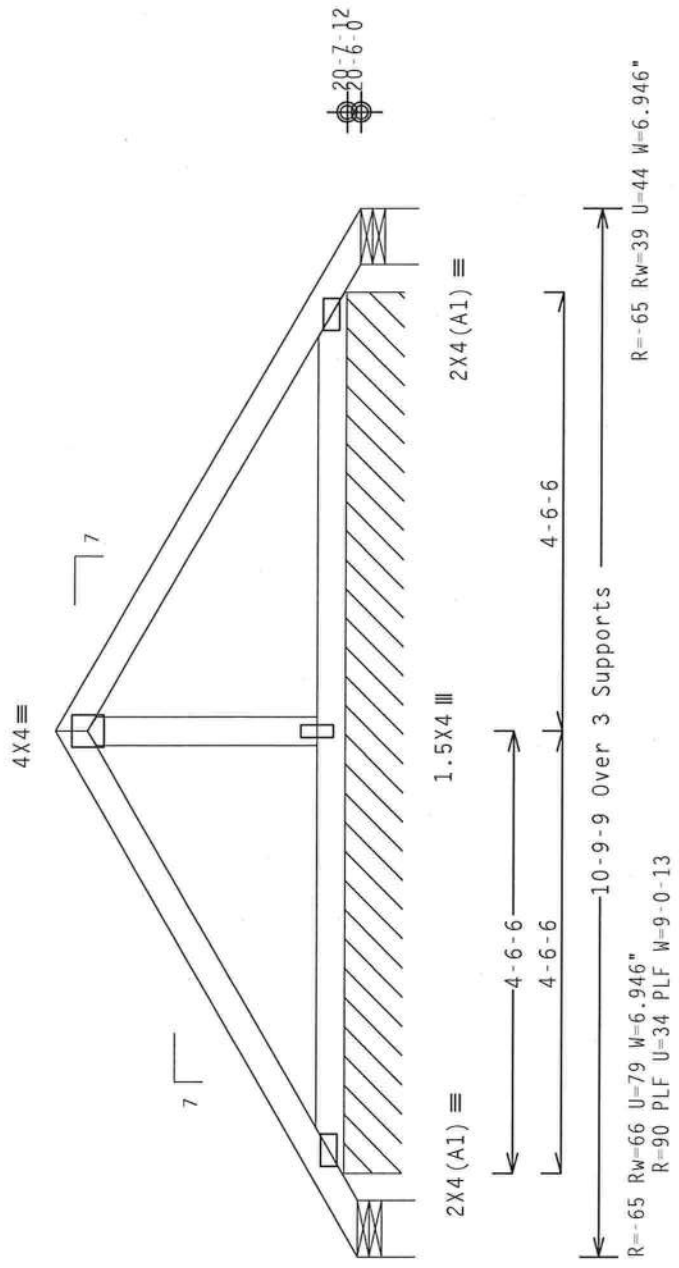
Wind reactions based on MWFRS pressures.

Refer to DWG PIGBACKA0207 or PIGBACKB0207 for piggyback
details. PORTION OF TRUSS UNDER PIGGYBACK IS TO BE
BRACED @ 24" OC, UNLESS OTHERWISE SPECIFIED.

SPECIAL LOADS

----- (LUMBER DUR.FAC.=1.25 / PLATE DUR.FAC.=1.25)
TC - From 63 PLF at 0.00 to 63 PLF at 5.40
TC - From 63 PLF at 5.40 to 63 PLF at 10.80
BC - From 4 PLF at 0.00 to 4 PLF at 10.80

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



Design Crit: TPI-2002(STD)/FBC

Cq/RT=1.00(1.25)/0(0)

QTY: 1

Scale = .5" / Ft.

****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BEST BUILDING COMPONENT SAFETY PRACTICES FOR TRUSSES. THIS TRUSS IS DESIGNED TO BE USED IN CONFORMANCE WITH THE NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314, AND WEAWOOD TRUSS COMPANY, INC., 1000 ENTERPRISE LANE, MADISON, WI 53719 FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

****IMPORTANT**** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ITW BCG, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN; ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI; OR FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC., BY AIA/PSA) AND TPI. ITW BCG CONNECTOR PLATES ARE MADE OF 2010/16GA (4-H/55/S) ASTM A653 GRADE 40/60 (4, K/H/SS) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-2. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF TPI-2002 SEC.3. A SEAL ON THIS DESIGN SHALL BE REQUIRED. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.

ALPINE

ITW Building Components Group Inc.
Haines City, FL 33844
FL-001-40278



TC LL	20.0 PSF	REF	R8228- 48775
TC DL	10.0 PSF	DATE	10/09/08
BC DL	10.0 PSF	DRW	HCUSR8228 08283050
BC LL	0.0 PSF	HC-ENG	JB/AP
TOT.LD.	40.0 PSF	SEQN-	107922
DUR.FAC.	1.25	FROM	AH
SPACING	24.0"	JREF-	1TLM8228202

Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3

110 mph wind, 21.91 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 6.06 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=2.0 psf. 1w=1.00 GCpi(+/-)-0.18

Wind reactions based on MWFRS pressures.

See DWGS A11030FE0207 & GBLLETIN0207 for more requirements.

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

Refer to DWG PIGBACKA0207 or PIGBACKB0207 for piggyback details. PORTION OF TRUSS UNDER PIGGYBACK IS TO BE BRACED @ 24" OC, UNLESS OTHERWISE SPECIFIED.

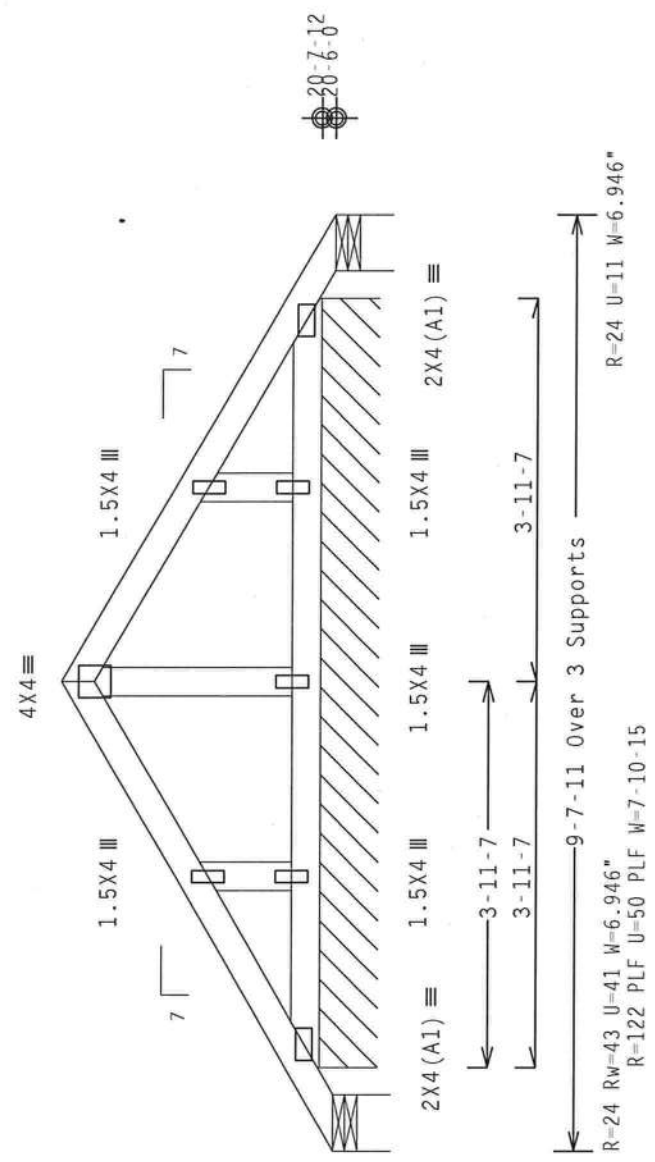
SPECIAL LOADS

----- (LUMBER DUR.FAC.=1.25 / PLATE DUR.FAC.=1.25)
TC - From 63 PLF at 0.00 to 63 PLF at 4.82
TC - From 63 PLF at 4.82 to 63 PLF at 9.64
BC - From 4 PLF at 0.00 to 4 PLF at 9.64

Truss spaced at 24.0" OC designed to support 1-4-0 topchord outlookers. Cladding load shall not exceed 10.00 PSF. Top chord must not be cut or notched.

In lieu of rigid ceiling use purlins to brace BC @ 24" OC.

THE BUILDING DESIGNER IS RESPONSIBLE FOR THE DESIGN OF THE ROOF AND CEILING DIAPHRAGMS, GABLE END SHEAR WALLS, AND SUPPORTING SHEAR WALLS. SHEAR WALLS MUST PROVIDE CONTINUOUS LATERAL RESTRAINT TO THE GABLE END. ALL CONNECTIONS TO BE DESIGNED BY THE BUILDING DESIGNER.



Design Crit: TPI-2002(STD)/FBC

Cq/RT=1.00(1.25)/0(0)

QTY:1

Scale = .5" / Ft.

****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BEST (BUILDING COMPONENT SAFETY INFORMATION) PUBLISHED BY TPI (TRUSS PLATE INSTITUTE), 6300 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22304) AND MICA (WOOD TRUSS, COUNCIL OF AMERICA, 6300 ENTERPRISE LANE, MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

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ALPINE

ITW Building Components Group Inc.
Haines City, FL 33844
Tel: 888-40-278

JAMES E. BOLKINS, JR.
No. 52212
STATE OF FLORIDA
PROFESSIONAL ENGINEER

0cc

TC LL	20.0 PSF	REF	R8228 - 48776
TC DL	10.0 PSF	DATE	10/09/08
BC DL	10.0 PSF	DRW	HCUSR8228 08283012
BC LL	0.0 PSF	HC-ENG	JB/AP
TOT.LD.	40.0 PSF	SEQN -	107926
DUR.FAC.	1.25	FROM	AH
SPACING	24.0"	JREF -	1TLM8228Z02

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

THIS DETAIL IS ONLY APPLICABLE FOR CHANGING THE SPECIFIED CLUB 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
2X3 OR 2X4	2 ROWS	2X6	2-2X4
2X6	1 ROW	2X4	1-2X6
2X6	2 ROWS	2X6	2-2X4(*)
2X8	1 ROW	2X6	1-2X8
2X8	2 ROWS	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.

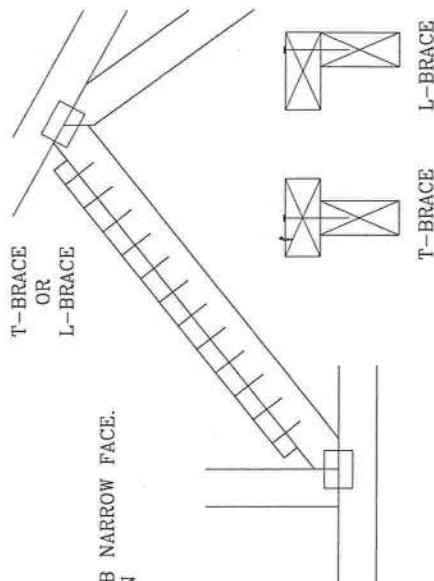
(*) CENTER SCAB ON WIDE FACE OF WEB. APPLY (1) SCAB TO EACH FACE OF WEB.

T-BRACING

OR

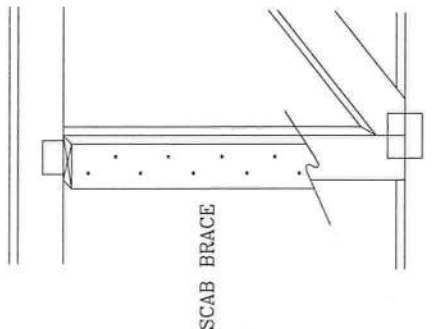
L-BRACING:

APPLY TO EITHER SIDE OF WEB NARROW FACE.
ATTACH WITH 10d BUSH OR GUN
(0.128"x 3." MIN) NAILS.
AT 6" O.C. BRACE IS A
MINIMUM 80% OF WEB
MEMBER LENGTH



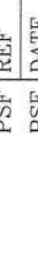
SCAB BRACING:

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



SCAB BRACE

THIS DRAWING REPLACES DRAWING 579 640



ALPINE

ITW BUILDING COMPONENTS GROUP, INC.
POMPANO BEACH, FLORIDA

WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND ERECTING. BEST BUILDING COMPONENT SAFETY INFORMATION, PUBLISHED BY THE TRUSS INSTITUTE, 218 FIRST STREET, SUITE 100, MADISON, WI 53719, FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. 6300 ENTERPRISE LN, MADISON, WI 53719. FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

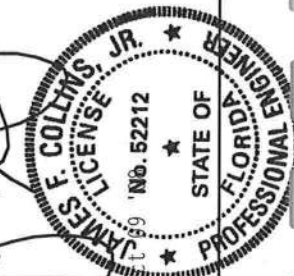
IMPORTANT FURNISH COPY OF THIS DESIGN TO INSTALLATION CONTRACTOR. ITV BEG, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATING FROM THIS DESIGN. ITV BEG, INC. HAS NO LIABILITY FOR CONFORMANCE WITH TPI, DR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS NATIONAL DESIGN SPEC. BY A7&P2 AND TPI. ITV, BEG CONNECTOR PLATES ARE MADE OF 20/18/16GA 14.H/SS/K3 ASTM A653 GRADE 40/60 (K/K/H/SS) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-ZAL. ANY INSPECTION OF PLATES FOLLOWED BY CD SHALL BE PER FORMED BY AN INDEPENDENT THIRD PARTY. ITV BEG, INC. HAS NO LIABILITY FOR CONFORMANCE WITH ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER, PER ANSI/TPI 1 SEC. 2.



TC LL	PSF	REF	CLB SUBST.
TC DL	PSF	DATE	2/23/07
BC DL	PSF	DRWG	BRCBLSUB0207
BC LL	PSF	-ENG	MLH/KAR
TOT. LD.			
DUR. FAC.			
SPACING			



TTW BUILDING COMPONENTS GROUP, INC.
POMPANO BEACH, FLORIDA



MAX GABLE VERTICAL LENGTH																		
2X4 GABLE VERTICAL SPACING SPECIES		BRACE		NO BRACES	(1) 1X4 "L" BRACE •				(1) 2X4 "L" BRACE •				(2) 2X4 "L" BRACE ••		(1) 2X6 "L" BRACE •		(2) 2X6 "L" BRACE •	
		GRADE	#1 / #2		GROUP A	GROUP B	GROUP A	GROUP B	GROUP A	GROUP B	GROUP A	GROUP B	GROUP A	GROUP B	GROUP A	GROUP B	GROUP A	GROUP B
16" O.C.	SPF		3' 10"	6' 8"	6' 10"	7' 11"	8' 1"		9' 5"	9' 8"	12' 5"	12' 9"	14' 0"	14' 0"				
	HF		3' 9"	6' 0"	6' 0"	7' 11"	7' 11"		9' 5"	9' 5"	12' 4"	12' 4"	14' 0"	14' 0"				
	STUD		3' 9"	6' 0"	6' 0"	7' 11"	7' 11"		9' 5"	9' 5"	12' 3"	12' 3"	14' 0"	14' 0"				
	STANDARD		3' 9"	5' 2"	5' 2"	6' 9"	6' 9"		9' 1"	9' 1"	10' 7"	10' 7"	14' 0"	14' 0"				
24" O.C.	SP	#1	4' 3"	6' 8"	7' 2"	7' 11"	8' 6"		9' 5"	10' 2"	12' 5"	13' 5"	14' 0"	14' 0"				
		#2	4' 2"	6' 8"	7' 2"	7' 11"	8' 6"		9' 5"	10' 2"	12' 5"	13' 5"	14' 0"	14' 0"				
		#3	4' 0"	6' 2"	6' 2"	7' 11"	8' 1"		9' 5"	9' 11"	12' 5"	12' 8"	14' 0"	14' 0"				
	DFL	STUD	4' 0"	6' 1"	6' 1"	7' 11"	8' 0"		9' 5"	9' 11"	12' 5"	12' 6"	14' 0"	14' 0"				
16" O.C.	STANDARD		3' 10"	5' 3"	5' 3"	6' 11"	6' 11"		9' 4"	10' 10"	10' 10"	12' 11"	14' 0"	14' 0"				
	SPF	#1 / #2	4' 5"	7' 8"	7' 10"	9' 1"	9' 4"		10' 10"	11' 1"	14' 0"	14' 0"	14' 0"	14' 0"				
	HF	#3	4' 4"	7' 4"	7' 4"	9' 1"	9' 1"		10' 10"	10' 10"	14' 0"	14' 0"	14' 0"	14' 0"				
	STUD		4' 4"	7' 4"	7' 4"	9' 1"	9' 1"		10' 10"	10' 10"	14' 0"	14' 0"	14' 0"	14' 0"				
12" O.C.	SP	#1	4' 10"	7' 8"	8' 3"	9' 1"	9' 9"		10' 10"	11' 8"	14' 0"	14' 0"	14' 0"	14' 0"				
		#2	4' 9"	7' 8"	8' 3"	9' 1"	9' 9"		10' 10"	11' 8"	14' 0"	14' 0"	14' 0"	14' 0"				
		#3	4' 6"	7' 7"	7' 7"	9' 1"	9' 6"		10' 10"	11' 4"	14' 0"	14' 0"	14' 0"	14' 0"				
	DFL	STUD	4' 6"	7' 6"	7' 6"	9' 1"	9' 6"		10' 10"	11' 4"	14' 0"	14' 0"	14' 0"	14' 0"				
12" O.C.	STANDARD		4' 5"	6' 5"	6' 5"	8' 6"	8' 6"		10' 10"	11' 1"	13' 3"	13' 3"	14' 0"	14' 0"				
	SPF	#1 / #2	4' 11"	8' 5"	8' 8"	10' 0"	10' 3"		11' 11"	12' 3"	14' 0"	14' 0"	14' 0"	14' 0"				
	HF	#3	4' 9"	8' 5"	8' 5"	10' 0"	10' 0"		11' 11"	11' 11"	14' 0"	14' 0"	14' 0"	14' 0"				
	STUD		4' 9"	8' 5"	8' 5"	10' 0"	10' 0"		11' 11"	11' 11"	14' 0"	14' 0"	14' 0"	14' 0"				
12" O.C.	STANDARD		5' 4"	8' 5"	9' 1"	10' 0"	10' 9"		11' 11"	12' 10"	14' 0"	14' 0"	14' 0"	14' 0"				
	SP	#1	5' 3"	8' 5"	9' 1"	10' 0"	10' 9"		11' 11"	12' 10"	14' 0"	14' 0"	14' 0"	14' 0"				
		#2	5' 0"	8' 5"	8' 5"	10' 0"	10' 6"		11' 11"	12' 6"	14' 0"	14' 0"	14' 0"	14' 0"				
		#3	5' 0"	8' 5"	8' 5"	10' 0"	10' 6"		11' 11"	12' 6"	14' 0"	14' 0"	14' 0"	14' 0"				
DFL	STUD		4' 11"	7' 5"	7' 5"	9' 10"	9' 10"		11' 11"	12' 3"	14' 0"	14' 0"	14' 0"					

GABLE TRUSS DETAIL NOTES:

LIVE LOAD DEFLECTION CRITERIA IS L/240.

PROVIDE UPLIFT CONNECTIONS FOR 80 PLF OVER
CONTINUOUS BEARING (5 PSF TC DEAD LOAD).

GABLE END SUPPORTS LOAD FROM 4' 0"

OUTLOOKERS WITH 2' 0" OVERHANG, OR 12" PLYWOOD OVERHANG.

ATTACH EACH "L" BRACE WITH 10d NAILS.

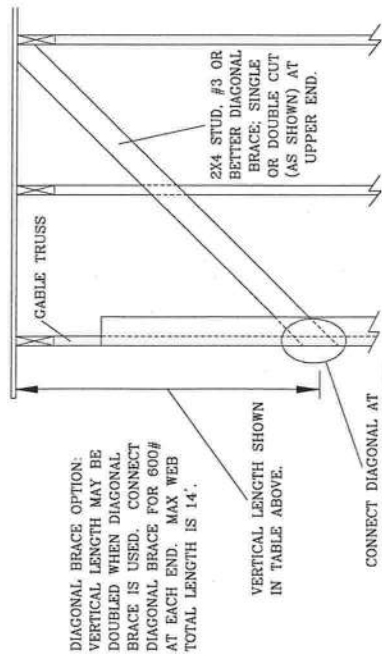
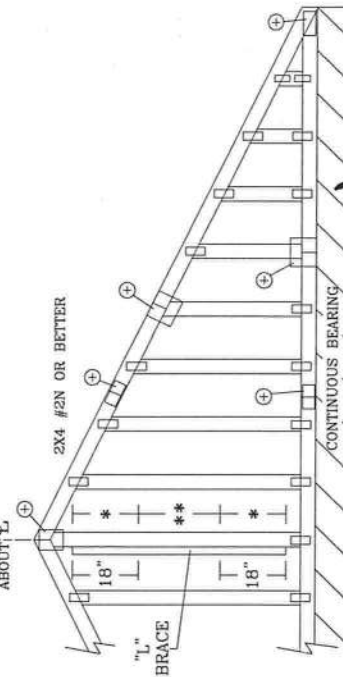
* FOR (1) "L" BRACE: SPACE NAILS AT 2" O.C. IN 18" END ZONES AND 4" O.C. BETWEEN ZONES.

** FOR (2) "L" BRACES: SPACE NAILS AT 3" O.C.
IN 18" END ZONES AND 6" O.C. BETWEEN ZONES.

"L" BRACING MUST BE A MINIMUM OF 80% OF WEB MEMBER LENGTH.

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 CHART ABOVE FOR MAX GABLE VERTICAL LENGTH.

****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO THE BUILDING COMPONENT INFORMATION, PUBLISHED BY TPI (TRUSS COMPANY), 1000 AMERICAN AVE., SUITE 312, WILMINGTON, DE 19381, AND WICA (WOOD INSTITUTE FOR CONSTRUCTION), 1000 WILMINGTON AVE., SUITE 312, WILMINGTON, DE 19381, FOR THE FOLLOWING INFORMATION. THESE TRUSSES ARE DESIGNED TO BE USED IN THE FOLLOWING MANNER. TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCK FUELS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE A PROPERLY ATTACHED RIGID GUTTING.

[illegible]

REF	ASCE7-02-GABI1015
DATE	2/23/07
DRWG	A11015EE0207
-ENG	

MAX. TOT. LD. 60 PSF

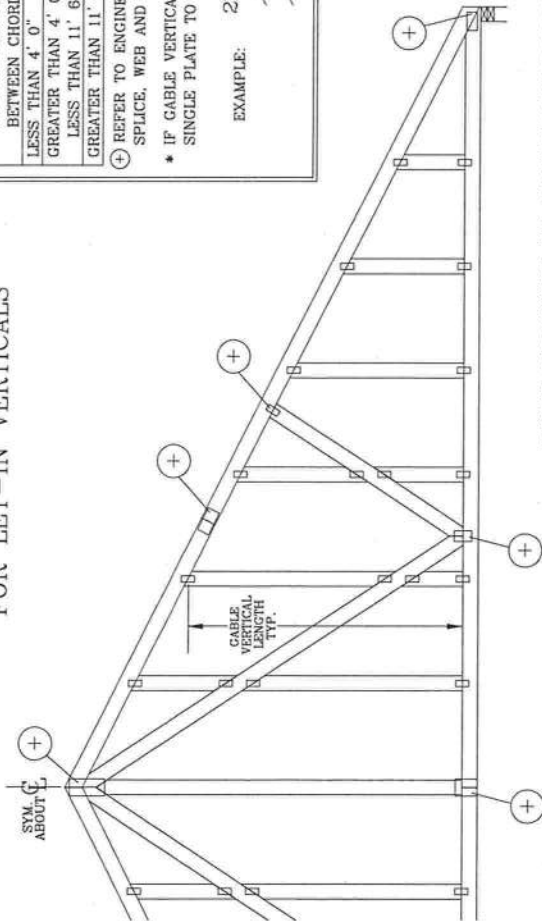
MAX. SPACING 24.0"

A circular professional engineer seal for the State of Florida. The outer ring contains the text "JAMES F. COLLINS, JR." at the top and "PROFESSIONAL ENGINEER" at the bottom, separated by stars. The inner circle contains the text "STATE OF FLORIDA" at the top and "LICENSE" at the bottom, also separated by stars. In the center, the license number "No. 52212" is displayed.

ALPINE

TW BUILDING COMPONENTS GROUP, INC.
POMPANO BEACH, FLORIDA

GABLE DETAIL FOR LET-IN VERTICALS



CABLE VERTICAL PLATE SIZES

VERTICAL LENGTH BETWEEN CHORDS	PLATE SIZE	IF PLATES OVERLAP*
LESS THAN 4' 0"	1X4 OR 2X3	2X8
GREATER THAN 4' 0", BUT LESS THAN 11' 6"	2X4	2X8
GREATER THAN 11' 6"	2.5X4	2.5X8

⊕ REFER TO ENGINEERED TRUSS DESIGN FOR PEAK, SPLICE, WEB AND HEEL PLATES.

* IF GABLE VERTICAL PLATES OVERLAP, USE A SINGLE PLATE TO SPAN THE WEB.

EXAMPLE:



PROVIDE CONNECTIONS FOR UPLIFT SPECIFIED ON THE ENGINEERED TRUSS DESIGN.

ATTACH EACH "T" REINFORCING MEMBER WITH

HAND DRIVEN NAILS:

10d COMMON (0.148" X 3.1" MIN) TOENAILS AT 4" O.C. PLUS

(4) 16d COMMON (0.162" X 3.5" MIN) TOENAILS IN TOP AND BOTTOM CHORD.

GUN DRIVEN NAILS:

8d COMMON (0.131" X 2.5" MIN) TOENAILS AT 4" O.C. PLUS

(4) TOENAILS IN TOP AND BOTTOM CHORD.

THIS DETAIL TO BE USED WITH THE APPROPRIATE ALPINE GABLE DETAIL FOR ASCE OR SBCCI WIND LOAD.

ASCE 7-93 GABLE DETAIL DRAWINGS

A11015EN0207, A10015EN0207, A09015EN0207, A08015EN0207, A07015EN0207,

A11030EN0207, A10030EN0207, A09030EN0207, A08030EN0207, A07030EN0207

ASCE 7-98 GABLE DETAIL DRAWINGS

A13015EC0207, A12015EC0207, A11015EC0207, A10015EC0207, A08515EC0207,

A13030EC0207, A12030EC0207, A11030EC0207, A10030EC0207, A08530EC0207

ASCE 7-02 GABLE DETAIL DRAWINGS

A13015EE0207, A12015EE0207, A11015EE0207, A10015EE0207, A08515EE0207,

A13030EE0207, A12030EE0207, A11030EE0207, A10030EE0207, A08530EE0207

ASCE 7-05 GABLE DETAIL DRAWINGS

A13015E50207, A12015E50207, A11015E50207, A10015E50207, A08515E50207,

A13030E50207, A12030E50207, A11030E50207, A10030E50207, A08530E50207

SEE APPROPRIATE ALPINE GABLE DETAIL (ASCE OR SBCCI

WIND LOAD) FOR MAXIMUM UNREINFORCED GABLE

VERTICAL LENGTH.

WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSC BUILDING COMPONENT SAFETY INFORMATION, PUBLISHED BY TPI (TRUSS POINTS INSTITUTE, 218 NORTH LEE STR., SUITE 312, ALEXANDRIA, VA 22314) AND WTC (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LN., MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

IMPORTANT FURNISH COPY OF THIS DESIGN TO INSTALLATION CONTRACTOR. ITV BCG, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSSES IN CONFORMANCE WITH TPI OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AF&PA) AND TPI. ITV, BCG CONNECTOR PLATES ARE MADE OF 20/18/16GA (W/H/SS/K) ASTM A653 GRADE 49/60 (W/K/H/SS) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS GALV. STEEL, ANY INSPECTION OF PLATES ALLOWED BY CD SHALL BE PER ANNEAL 43 OF TPI 1-2005. ITV BCG, INC. ASSUMES NO LIABILITY FOR THE USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER, PER ANSI/TPI 1 SEC. 2.

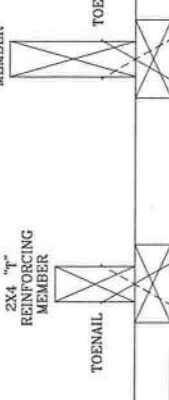


ITV BUILDING COMPONENTS GROUP, INC.
POMPANO BEACH, FLORIDA

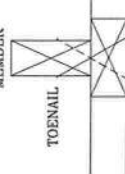
THIS DRAWING REPLACES DRAWINGS GAB98117 876,719 & HC26294035

REF	LET-IN VERT
DATE	2/23/07
DRWG	GBLLETN0207
	-ENG DLJ/KAR
MAX TOT. LD.	60 PSF
DUR. FAC.	ANY
MAX SPACING	24.0"

2X6 "T" REINFORCING MEMBER



2X4 "T" REINFORCING MEMBER



TO CONVERT FROM "L" TO "T" REINFORCING MEMBERS, MULTIPLY "T" FACTOR BY LENGTH (BASED ON GABLE VERTICAL SPECIES, GRADE AND SPACING) FOR (1) 2X4 "L" BRACE, GROUP A, OBTAINED FROM THE APPROPRIATE ALPINE GABLE DETAIL FOR ASCE OR SBCCI WIND LOAD.

MAXIMUM ALLOWABLE "T" REINFORCED GABLE VERTICAL LENGTH IS 14' FROM TOP TO BOTTOM CHORD.

WEB LENGTH INCREASE W/ "T" BRACE

WIND SPEED AND MRH	"T" REINFORCING MEMBER SIZE	SBCCI	ASCE
110 MPH	2x4	10 %	10 %
15 FT	2x6	40 %	50 %
110 MPH	2x4	10 %	10 %
30 FT	2x6	50 %	50 %
100 MPH	2x4	10 %	10 %
15 FT	2x6	30 %	50 %
100 MPH	2x4	10 %	10 %
30 FT	2x6	40 %	40 %
90 MPH	2x4	20 %	10 %
15 FT	2x6	20 %	40 %
90 MPH	2x4	10 %	10 %
30 FT	2x6	30 %	50 %
80 MPH	2x4	10 %	20 %
15 FT	2x6	10 %	30 %
80 MPH	2x4	20 %	10 %
30 FT	2x6	20 %	40 %
70 MPH	2x4	0 %	20 %
15 FT	2x6	0 %	20 %
70 MPH	2x4	10 %	20 %
30 FT	2x6	10 %	30 %

EXAMPLE:

ASCE WIND SPEED = 100 MPH

MEAN ROOF HEIGHT = 30 FT

GABLE VERTICAL = 24" O.C. SP #3

"T" REINFORCING MEMBER SIZE = 2X4

"T" BRACE INCREASE (FROM ABOVE) = 10% = 1.10

(1) 2X4 "L" BRACE LENGTH = 6' 7"

MAXIMUM "T" REINFORCED GABLE VERTICAL LENGTH

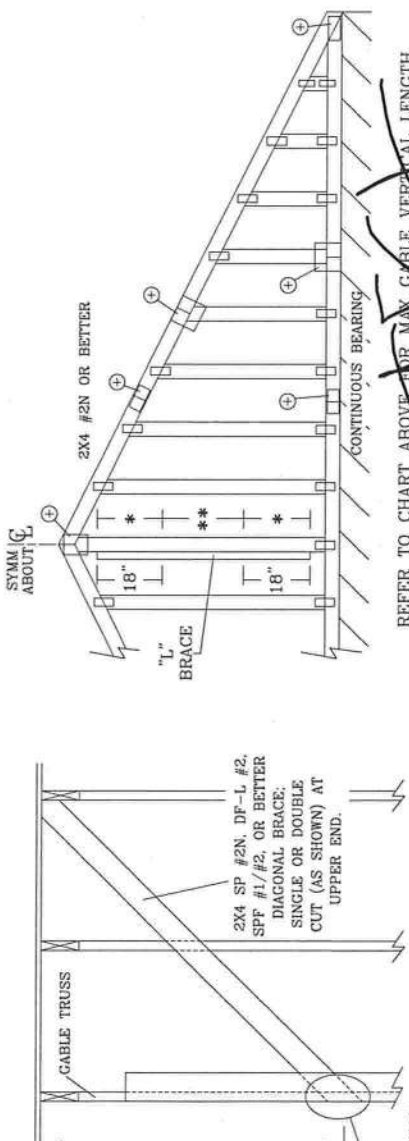
1.10 x 6' 7" = 7' 3"

2x4 GABLE VERTICAL SPACING		BRACE		NO BRACES		(1) 1x4 "L" BRACE •		(1) 2x4 "L" BRACE •		(2) 2x4 "L" BRACE ••		(1) 2x6 "L" BRACE •		(2) 2x6 "L" BRACE •	
		SPECIES	GRADE			GROUP A	GROUP B	GROUP A	GROUP B	GROUP A	GROUP B	GROUP A	GROUP B	GROUP A	GROUP B
O.C.	SPF	#1 / #2	3' 4"	5' 10"	6' 0"	6' 11"	7' 1"	8' 3"	10' 10"	11' 2"	12' 11"	13' 3"			
		#3	3' 3"	4' 11"	4' 11"	6' 6"	6' 6"	8' 3"	10' 1"	10' 1"	12' 11"	12' 11"			
	HF	STUD	3' 3"	4' 11"	4' 11"	6' 5"	6' 5"	8' 3"	10' 0"	10' 0"	12' 11"	12' 11"			
		STANDARD	3' 3"	4' 2"	4' 2"	5' 6"	5' 6"	7' 5"	8' 8"	11' 8"	11' 8"	11' 8"			
		#1	3' 8"	5' 10"	6' 3"	6' 11"	7' 5"	8' 3"	10' 10"	11' 8"	12' 11"	13' 11"			
24"	SP	#2	3' 7"	5' 10"	6' 3"	6' 11"	7' 5"	8' 3"	10' 10"	11' 8"	12' 11"	13' 11"			
		#3	3' 6"	5' 0"	5' 0"	6' 8"	6' 8"	8' 3"	10' 4"	10' 4"	12' 11"	13' 7"			
	DFL	STUD	3' 6"	5' 0"	5' 0"	6' 7"	6' 7"	8' 3"	10' 3"	10' 3"	12' 11"	13' 7"			
		STANDARD	3' 4"	4' 3"	4' 3"	5' 8"	5' 8"	7' 8"	8' 10"	12' 0"	12' 0"	12' 0"			
		#1 / #2	3' 10"	6' 8"	6' 10"	7' 11"	8' 1"	9' 5"	12' 5"	12' 9"	14' 0"	14' 0"			
O.C.	SPF	#3	3' 9"	6' 0"	6' 0"	7' 11"	7' 11"	9' 5"	12' 4"	12' 4"	14' 0"	14' 0"			
	HF	STUD	3' 9"	6' 0"	6' 0"	7' 11"	7' 11"	9' 5"	12' 4"	12' 4"	14' 0"	14' 0"			
		STANDARD	3' 9"	5' 2"	5' 2"	6' 10"	6' 10"	9' 2"	10' 7"	10' 7"	14' 0"	14' 0"			
		#1	4' 3"	6' 8"	7' 2"	7' 11"	8' 6"	9' 5"	10' 2"	12' 5"	14' 0"	14' 0"			
		#2	4' 2"	6' 8"	7' 2"	7' 11"	8' 6"	9' 5"	10' 2"	12' 5"	14' 0"	14' 0"			
16"	SP	#3	4' 0"	6' 2"	6' 2"	7' 11"	8' 2"	9' 5"	12' 5"	12' 8"	14' 0"	14' 0"			
		STUD	4' 0"	6' 1"	6' 1"	7' 11"	8' 1"	9' 5"	12' 5"	12' 6"	14' 0"	14' 0"			
	DFL	STANDARD	3' 10"	5' 3"	5' 3"	6' 11"	6' 11"	9' 4"	10' 10"	10' 10"	14' 0"	14' 0"			
		#1 / #2	4' 3"	7' 4"	7' 7"	8' 9"	8' 11"	10' 5"	10' 8"	14' 0"	14' 0"	14' 0"			
		#3	4' 2"	6' 11"	6' 11"	8' 9"	8' 9"	10' 5"	10' 5"	13' 8"	14' 0"	14' 0"			
O.C.	SPF	STUD	4' 2"	6' 11"	6' 11"	8' 9"	8' 9"	10' 5"	10' 5"	13' 8"	14' 0"	14' 0"			
	HF	STANDARD	4' 2"	5' 11"	5' 11"	7' 10"	7' 10"	10' 5"	10' 5"	12' 3"	14' 0"	14' 0"			
		#1	4' 8"	7' 4"	7' 11"	8' 9"	9' 5"	11' 2"	13' 8"	14' 0"	14' 0"	14' 0"			
	SP	#2	4' 7"	7' 4"	7' 11"	8' 9"	9' 5"	10' 5"	11' 2"	13' 8"	14' 0"	14' 0"			
		#3	4' 4"	7' 2"	7' 2"	8' 9"	9' 2"	10' 5"	10' 11"	13' 8"	14' 0"	14' 0"			
12"	DFL	STUD	4' 4"	7' 1"	7' 1"	8' 9"	9' 2"	10' 5"	10' 11"	13' 8"	14' 0"	14' 0"			
		STANDARD	4' 3"	6' 1"	6' 1"	8' 0"	8' 0"	10' 5"	10' 8"	12' 6"	14' 0"	14' 0"			

DIAGONAL BRACE OPTION:
VERTICAL LENGTH MAY BE
DOUBLED WHEN DIAGONAL
BRACE IS USED. CONNECT
DIAGONAL BRACE FOR 840
AT EACH END. MAX WEB
TOTAL LENGTH IS 14'.

VERTICAL LENGTH
IN TABLE ABOVE.

CONNECT DIAGONAL AT
MIDPOINT OF VERTICAL



~~REFER TO CHART ABOVE FOR MAX GABLE VERTICAL LENGTH.~~

GABLE VERTICAL PLATE SIZES	
VERTICAL LENGTH LESS THAN 4' 0"	NO SPUCE 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, SPUCE, AND HEEL PLATES

† REFER TO COMMON TRUSS DESIGN FOR PEAK, SPLICE, AND HEEL PLATES

GABLE TRUSS DETAIL NOTES:

LIVE LOAD DEFLECTION CRITERIA IS L/240.

PROVIDE UPLIFT CONNECTIONS FOR 135 PLF OVER
CONTINUOUS BEARING (5 PSF TC DEAD LOAD).

GABLE END SUPPORTS LOAD FROM 4' 0"

OUTLOOKERS WITH 2' 0" OVERHANG, OR 12" PLYWOOD OVERHANG.

ATTACH EACH "L" BRACE WITH 10d NAILS.

* FOR (1) "L" BRACE: SPACE NAILS AT 2" O.C. IN 18" END ZONES AND 4" O.C. BETWEEN ZONES.

*** FOR (2) "L" BRACES: SPACE NAILS AT 3" O.C.
IN 18" END ZONES AND 6" O.C. BETWEEN ZONES.

"L" BRACING MUST BE A MINIMUM OF 80% OF WEB MEMBER LENGTH.

BRACING GROUP SPECIES AND GRADES:

GROUP A:

SPRUCE-PINE-FIR		HEM-FIR	
#1 / #2	STANDARD	#2	STUD
#3	STUD	#3	STANDARD

SOUTHERN PINE

#3	#3
STUD	STUD
STANDARD	STANDARD

GROUP B:

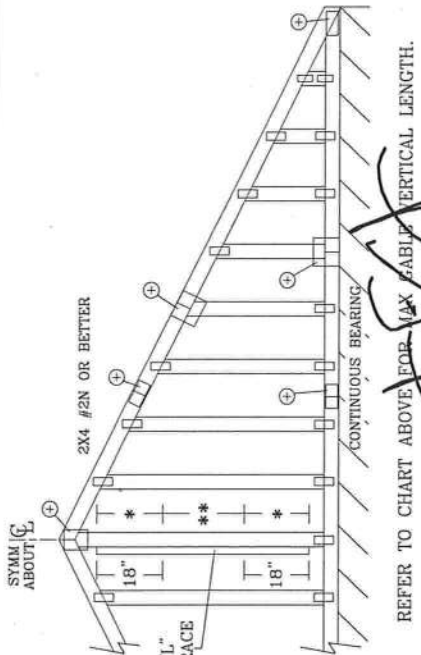
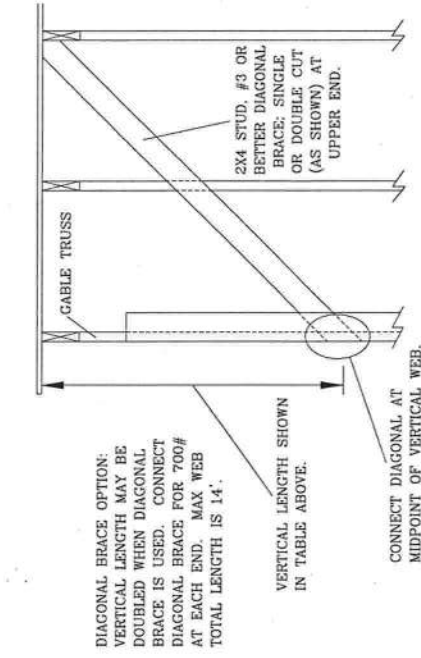
HEM-FIR	
#1 & BTR	
	#1

SOUTHERN PINE DOUGLAS FIR-LARCH

#1	#1
#2	#2

WARNING	TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. THE TRUSS DESIGNER HAS REVIEWED THE SUBMITTED TRUSS PLATE INFORMATION FOR COMPLIANCE WITH THE AISC STEEL CONSTRUCTION MANUAL, 13TH EDITION, PART 10, CHAPTER 10. THESE FUNCTIONS, UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.	REF	ASCE7-02-GABI3015
IMPORTANT	FURNISH COPY OF THIS DESIGN TO INSTALLATION CONTRACTOR. ITV, BCG, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. THE DESIGNER'S LIABILITY IS LIMITED TO CONFORMANCE WITH TPI OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF AISC NATIONAL DESIGN SPEC. BY AT&PJ AND TPI. ITV, BCG CONNECTOR PLATES ARE MADE OF 20/18/16GA C.V./H/SS/A3 ASTM A653 GRADE 40/60 C.V./H/SS3 GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, SUBSTITUTION PERMANENTLY. ANY INSPECTION OF PLATES FOLLOWED BY ID SHALL BE PER DESIGNER. THE DESIGNER ASSUMES ALL LIABILITY FOR THE TRUSS COMPONENT DESIGN SHOWN. THE SUITABILITY AND ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER. PER ANSI/TPI 1 SEC. 2.	DATE	2/23/07
		DRWG	A13015EE0207
		-ENG	
		MAX. TOT. LD.	60 PSF
		MAX. SPACING	24'-0"

MAX GABLE VERTICAL LENGTH												
2x4 GABLE VERTICAL SPACING	BRACE GRADE	NO BRACES	(1) 1x4 "L" BRACE •		(1) 2x4 "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	GROUP A	GROUP B
12" O.C.	SPF	3' 8"	6' 4"	6' 6"	7' 6"	7' 8"	8' 11"	9' 2"	11' 9"	12' 1"	14' 0"	14' 0"
	HF	3' 7"	5' 5"	5' 5"	7' 2"	7' 2"	8' 11"	8' 11"	11' 2"	11' 2"	14' 0"	14' 0"
	STANDARD	3' 7"	5' 5"	5' 5"	7' 1"	7' 1"	8' 11"	8' 11"	11' 1"	11' 1"	14' 0"	14' 0"
	SP	4' 0"	6' 4"	6' 10"	6' 1"	6' 1"	8' 3"	8' 3"	9' 6"	9' 6"	12' 11"	14' 0"
24" O.C.	SP	3' 11"	6' 4"	6' 10"	7' 6"	8' 1"	8' 11"	9' 7"	11' 9"	12' 8"	14' 0"	14' 0"
	DFL	3' 9"	5' 7"	5' 6"	7' 4"	7' 4"	8' 11"	9' 5"	11' 5"	11' 5"	14' 0"	14' 0"
	STANDARD	3' 8"	4' 9"	4' 9"	6' 3"	6' 3"	8' 5"	8' 5"	9' 9"	9' 9"	13' 3"	14' 0"
	SPF	4' 2"	7' 3"	7' 5"	8' 7"	8' 10"	10' 3"	10' 6"	13' 5"	13' 10"	14' 0"	14' 0"
16" O.C.	HF	4' 1"	6' 8"	6' 8"	8' 7"	8' 7"	10' 3"	10' 3"	13' 5"	13' 5"	14' 0"	14' 0"
	STANDARD	4' 1"	5' 8"	5' 8"	7' 6"	7' 6"	10' 1"	10' 1"	11' 8"	11' 8"	14' 0"	14' 0"
	SP	4' 7"	7' 3"	7' 9"	8' 7"	9' 3"	10' 3"	11' 0"	13' 5"	14' 0"	14' 0"	14' 0"
	DFL	4' 6"	6' 10"	6' 10"	8' 7"	9' 3"	10' 3"	11' 0"	13' 5"	14' 0"	14' 0"	14' 0"
12" O.C.	SPF	4' 4"	6' 9"	6' 9"	8' 7"	8' 11"	10' 3"	10' 9"	13' 5"	14' 0"	14' 0"	14' 0"
	HF	4' 2"	5' 10"	5' 10"	7' 8"	7' 8"	10' 3"	10' 4"	11' 11"	11' 11"	14' 0"	14' 0"
	STANDARD	4' 2"	8' 0"	8' 2"	9' 5"	9' 8"	11' 3"	11' 7"	14' 0"	14' 0"	14' 0"	14' 0"
	SP	4' 6"	7' 8"	7' 8"	9' 5"	9' 5"	11' 3"	11' 3"	14' 0"	14' 0"	14' 0"	14' 0"
24" O.C.	HF	4' 6"	6' 7"	6' 7"	8' 8"	8' 8"	10' 2"	11' 3"	13' 6"	13' 6"	14' 0"	14' 0"
	STANDARD	5' 1"	8' 0"	8' 7"	9' 5"	10' 2"	11' 3"	12' 1"	14' 0"	14' 0"	14' 0"	14' 0"
	SP	4' 11"	8' 0"	8' 7"	9' 5"	10' 2"	11' 3"	12' 1"	14' 0"	14' 0"	14' 0"	14' 0"
	DFL	4' 9"	7' 11"	7' 11"	9' 5"	9' 11"	11' 3"	11' 10"	14' 0"	14' 0"	14' 0"	14' 0"
12" O.C.	SPF	4' 9"	6' 9"	6' 9"	8' 10"	8' 10"	11' 3"	11' 7"	13' 10"	13' 10"	14' 0"	14' 0"
	HF	4' 7"	6' 9"	6' 9"	8' 10"	8' 10"	11' 3"	11' 7"	13' 10"	13' 10"	14' 0"	14' 0"
	STANDARD	4' 7"	6' 9"	6' 9"	8' 10"	8' 10"	11' 3"	11' 7"	13' 10"	13' 10"	14' 0"	14' 0"
	SP	4' 7"	6' 9"	6' 9"	8' 10"	8' 10"	11' 3"	11' 7"	13' 10"	13' 10"	14' 0"	14' 0"



REFER TO CHART ABOVE FOR MAX GABLE VERTICAL LENGTH.

BRACING GROUP SPECIES AND GRADES:

GROUP A:

SPRUCE-PINE-FIR		HEM-FIR	
#1 / #2	STANDARD	#2	STUD
#3	STUD	#3	STANDARD

DOUGLAS FIR-LARCH

#3	STUD
STANDARD	

SOUTHERN PINE

#3	STUD
STANDARD	

GROUP B:

HEM-FIR		DOUGLAS FIR-LARCH	
#1 & BTR	#1	#1	#2

SOUTHERN PINE

#1	#2
----	----

GABLE TRUSS DETAIL NOTES:

- LIVE LOAD DEFLECTION CRITERIA IS L/240
- PROVIDE UPLIFT CONNECTIONS FOR 100 PLF OVER CONTINUOUS BEARING (5 PSF TC DEAD LOAD).
- GABLE END SUPPORTS LOAD FROM 4' 0" OUTLOOKERS WITH 2' 0" OVERHANG, OR 12" PLYWOOD OVERHANG.
- ATTACH EACH "L" BRACE WITH 10d NAILS.
- ** FOR (1) "L" BRACE: SPACE NAILS AT 2' O.C. IN 18" END ZONES AND 4' O.C. BETWEEN ZONES.
- ** FOR (2) "L" BRACES: SPACE NAILS AT 3' O.C. IN 18" END ZONES AND 6' O.C. BETWEEN ZONES.
- "L" BRACING MUST BE A MINIMUM OF 80% OF WEB MEMBER LENGTH.

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.

ALPINE

ITW BUILDING COMPONENTS GROUP, INC.
POMPANO BEACH, FLORIDA

WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING, AND BRACING. REFER TO BCSI (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 218 NORTH LEE STR., SUITE 312, ALEXANDRIA, VA 22314) AND WTCA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LN, MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

IMPORTANT FURNISH COPY OF THIS DESIGN TO INSTALLATION CONTRACTOR. ITW BCG, INC., SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSSES IN CONFORMANCE WITH TPI; OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC, BY AF&PA) AND TPI. DESIGNER SHALL BE RESPONSIBLE FOR THE USE OF 2017/1668 (A3/SS430) ASTH A555 GRADE 40/60 (A3/SS430) LVL, BEST CONNECTION PRACTICES TO ENHANCE STABILITY OF TRUSSES, AND THE USE OF PER DESIGN POSITION PER DRAWINGS TO ENHANCE STABILITY OF TRUSSES. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER, PER ANSII/TPI 1 SEC. 2.

REF' ASCE7-98-CAB11030

DATE 2/23/07

DRWG A11030ECO207

-ENG

MAX. TOT. LD. 60 PSF

MAX. SPACING 24'0"

JAMES E. COLLINS, JR.

FLORIDA LICENSE No. 52212

STATE OF FLORIDA

PROFESSIONAL ENGINEER

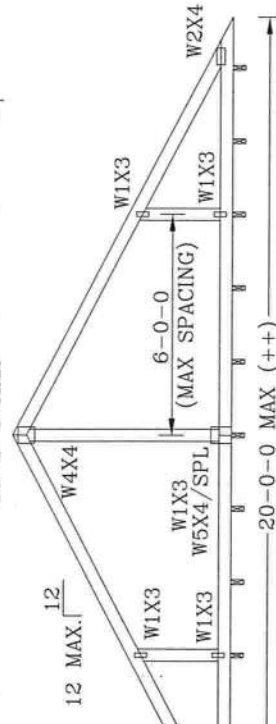
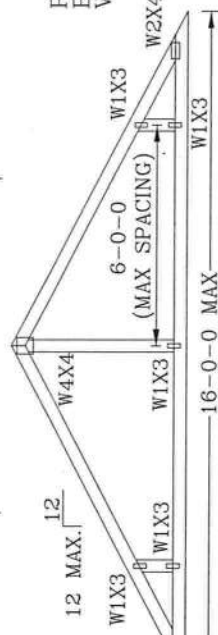
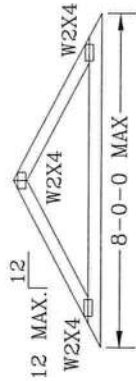
VALLEY TRUSS DETAIL

TOP CHORD 2X4 SP #2 OR SPF #1/#2 OR BETTER.
BOT CHORD 2X3(*) OR 2X4 SP #2N OR SPF #1/#2 OR BETTER.
WEBS 2X4 SP #3 OR BETTER.

* 2X3 MAY BE RIPPED FROM A 2X6 (PITCHED OR SQUARE).

** ATTACH EACH VALLEY TO EVERY SUPPORTING TRUSS WITH:
(2) 16d BOX (0.135" X 3.5") NAILS TOE-NAILED FOR
SBC 110 MPH, ASCE 7-93 110 MPH OR ASCE 7-98,
ASCE 7-02 OR ASCE 7-05 130 MPH. 15' MEAN
HEIGHT, ENCLOSED BUILDING, EXP. C, RESIDENTIAL,
WIND TC DL=5 PSF

CUT FROM 2X6 OR
LARGER AS REQ'D

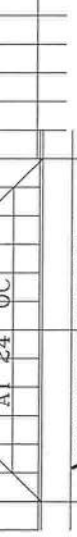


SUPPORTING TRUSSES AT 24" OC MAXIMUM SPACING.

*** NOTE THAT THE PURLIN SPACING FOR BRACING THE TOP CHORD OF THE TRUSS
BENEATH THE VALLEY IS MEASURED ALONG THE SLOPE OF THE TOP CHORD.
++ LARGER SPANS MAY BE BUILT AS LONG AS THE VERTICAL HEIGHT DOES
NOT EXCEED 12'0".
BOTTOM CHORD MAY BE SQUARE OR PITCHED CUT AS SHOWN.



OPTIONAL STUB
END DETAIL



COMMON TRUSSES
AT 24" OC

THIS DRAWING REPLACES DRAWING A105

TC	LL	30	40	PSF	REF	VALLEY DETAIL
TC	DL	20	15	7	DATE	2/23/07
BC	DL	10	10	10	DRWG	VALTRUSS0207
BC	LL	0	0	0	-ENG	MLH/KAR
TOT.	LD.	60	55	57		
DUR.FAC.	1.25/1.33	1.15	1.15			
SPACING		24"				



ITW BUILDING COMPONENTS GROUP, INC.
POMPANO BEACH, FLORIDA

TOP CHORD FILLER DETAIL

+ 2X4 CONTINUOUS LATERAL BRACING AT 24" O.C.
MAXIMUM SPACING. ATTACH TO EACH TOP CHORD WITH
(2) 16d COMMON (0.162"X 3.5", MIN) NAILS.
BRACING MATERIAL TO BE SUPPLIED AND ATTACHED
AT BOTH ENDS TO A SUITABLE SUPPORT BY ERECTION CONTRACTOR.

++ 2X4 SO. PINE #2 N OR SPF #1/#2 FILLER TOP CHORD.

+++ 2X4 SO. PINE #3 OR SPF #1/#2 VERTICAL WEBS SPACED
48" OC MAXIMUM.

* 8/12 MAXIMUM PITCH.

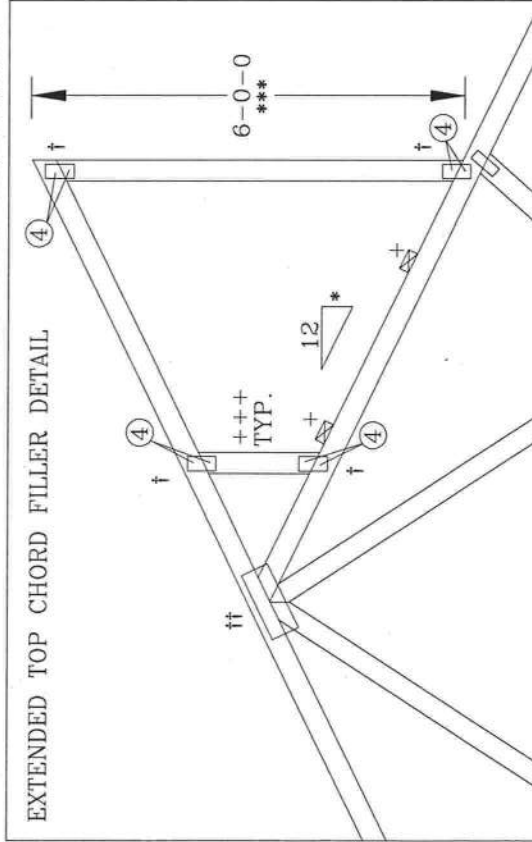
** 2X8.25 PIGGYBACK SPECIAL PLATE. SEE DRAWING PIGBACKB0699
FOR PIGGYBACK SPECIAL PLATE INFORMATION.

*** 6'0" MAXIMUM HEIGHT.

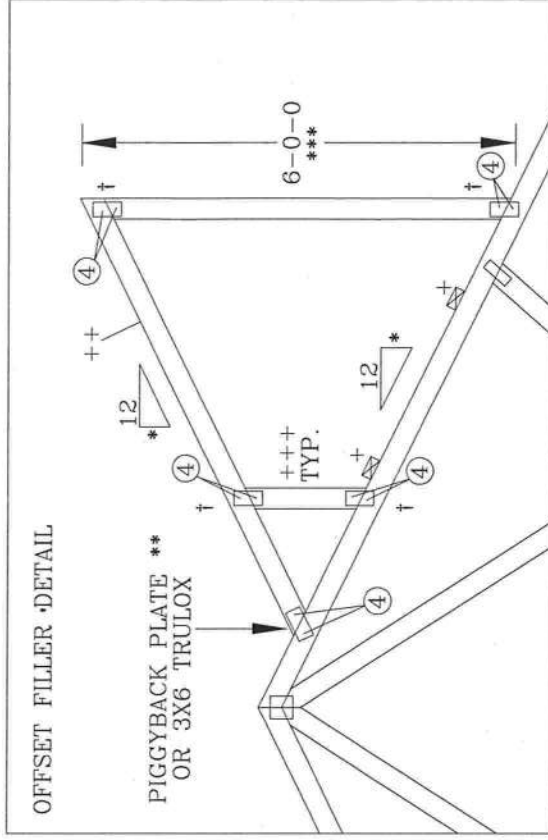
† W2X4 OR 3X6 TRULOX.

†† REFER TO ENGINEER'S SEALED DESIGN REFERENCING THIS
DETAIL FOR LUMBER, PLATES, AND OTHER INFORMATION NOT
SHOWN.

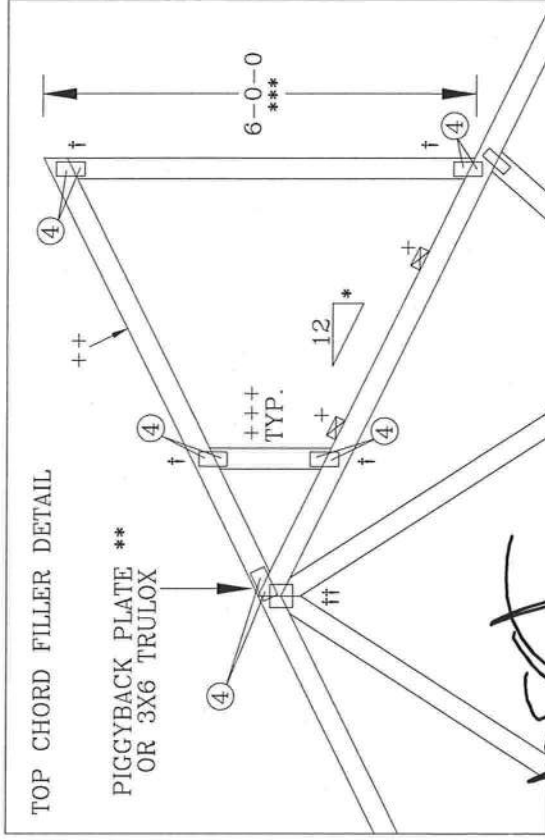
0.120"X 1.375" NAILS REQUIRED
FOR TRULOX PLATE ATTACHMENT. NAILS SPECIFIED
IN CIRCLES MUST BE APPLIED TO EACH FACE OF EACH TRUSS PLY.
SEE DWG. 160TL FOR NAILING AND TRULOX PLATE REQUIREMENTS



EXTENDED TOP CHORD FILLER DETAIL



OFFSET FILLER DETAIL



TOP CHORD FILLER DETAIL

THIS DRAWING REPLACES DRAWING 884.080

REF	TC-FILLER
DATE	2/23/07
DRWG	TCFILLER0207
-ENG	SJP/KAR
TC LL	MAX 30 PSF
TC DL	MAX 15 PSF
BC DL	MAX 10 PSF
BC LL	0 PSF
TOT. LD.	MAX 55 PSF
DUR. FAC.	1.15 OR 1.33
SPACING	24.0"

WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND
BRACING. REFER TO BCSI (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI TRUSS PLATE
INSTITUTE, 218 NORTH LEE STR., SUITE 312, ALEXANDRIA, VA 22314, AND VITCA (WOOD TRUSS COUNCIL OF
AMERICA, 6300 ENTERPRISE LN, MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE
FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL
PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

IMPORTANT FURNISH COPY OF THIS DESIGN TO INSTALLATION CONTRACTOR. ITW BCG, INC. SHALL
NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN
CONFORMANCE WITH TPI OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES.
DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC, BY AF&PA3 AND TPI.
ITW, BCG CONNECTOR PLATES ARE MADE OF 2018/16GA (W/H/SS/K) ASTM A653 GRADE 40/60 (W/K/H/SS)
GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS
DRAWING, ALL PLATES SHALL BE FOLLOWED BY (D) SHALL BE PER
ANEX A3 OF TPI 1-2008 SEC. 3. SEAL ON THIS DRAWING INDICATES THE DESIGNER'S
ENGINEERING RESPONSIBILITY ONLY FOR THE TRUSS COMPONENT DESIGN SHOWN. THE SUITABILITY AND
USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER, PER
ANSI/TPI 1 SEC. 2.



ITW BUILDING COMPONENTS GROUP, INC.
POMPANO BEACH, FLORIDA



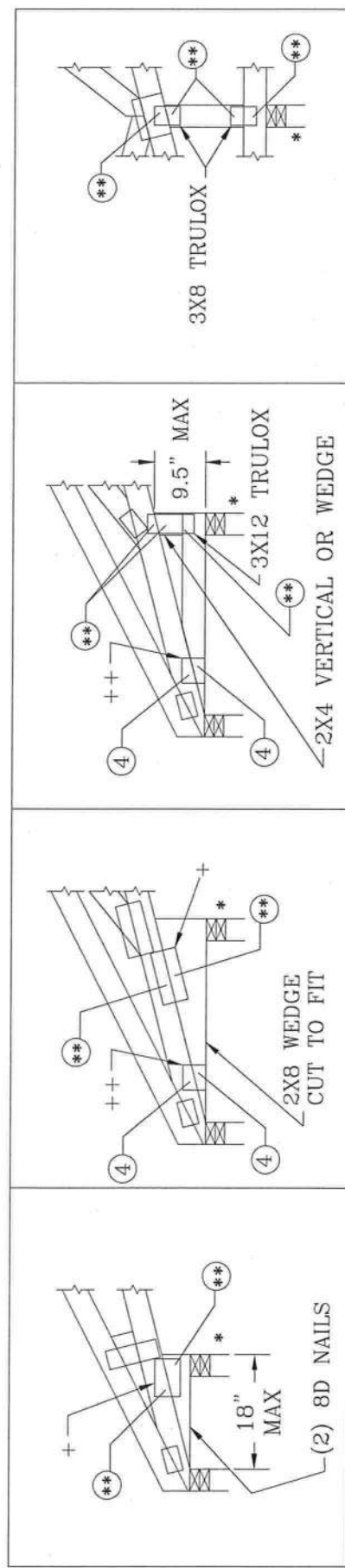
BOTTOM CHORD FILLER DETAIL

* OPTIONAL INTERIOR OR CANTILEVER BEARING. MINIMUM PLATE SIZES (1X3 WAVE) MAY BE USED IF BEARING IS OMITTED. WEDGE OR VERTICAL MEMBER MUST COINCIDE WITH BEARING LOCATION.

0.120" X 1.375", NAILS, REQUIRED FOR TRULOX PLATE ATTACHMENT. NAILS SPECIFIED IN CIRCLES MUST BE APPLIED TO EACH FACE OF THE TRUSS. SEE DWG. 160T1 FOR NAILING AND TRULOX PLATE REQUIREMENTS

ALL TRULOX PLATES SHOWN ARE MINIMUMS. LARGER PLATES MAY BE REQUIRED TO ACCOMMODATE REQUIRED NAILS (**)

FILLER BOTTOM CHORD OR WEDGE SPECIES	MAXIMUM REACTION		MINIMUM BEARING AREA	** REQUIRED NAILS PER FACE WITH TRULOX PLATES					
	DOWNWARD	UPLIFT		1.00 D.O.L.	1.15 D.O.L.	1.25 D.O.L.	1.33 D.O.L.	1.60 D.O.L.	
DOUGLAS FIR-LARCH	3281#	1656#	1.5" X 3.5"	12	11	10	9	8	
HEM-FIR	2126#	1095#	1.5" X 3.5"	9	8	7	7	6	
SPRUCE-PINE-FIR	2231#	1192#	1.5" X 3.5"	10	9	8	8	6	
SOUTHERN PINE DENSE	3465#	1791#	1.5" X 3.5"	12	11	10	9	8	
SOUTHERN PINE	2966#	1492#	1.5" X 3.5"	10	9	8	8	7	
SOUTHERN PINE NON-DENSE	2520#	1343#	1.5" X 3.5"	9	8	7	7	6	



THIS DRAWING REPLACES DRAWINGS A115 A115/R & 884.132

 ITW BUILDING COMPONENTS GROUP, INC. POMPANO BEACH, FLORIDA	TC LL		PSF	REF	BC FILLER
	TC DL		PSF	DATE	2/23/07
	BC DL		10.0 PSF	DRWG	BCFILLER0207
	BC LL		PSF	-ENG DLJ/KAR	
	TOT. LD.		PSF		
DUR. FAC. 1.0/1.15/1.25/1.33					
SPACING 24.0"					

WARNING** TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BC31 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI TRUSS PLANT INSTITUTE, 218 NORTH LEE STR., SUITE 312, ALEXANDRIA, VA 22314) AND VITCA (WOOD TRUSS CONSTRUCTION), 6300 ENTERPRISE LN., MADISON, WI 53719 FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE ACTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

IMPORTANT** FURNISH COPY OF THIS DESIGN TO INSTALLATION CONTRACTOR. ITW BCG, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN; ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI, OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AF&PA) AND TPI. ALL TRUSSES AND PLATES ARE MADE OF 2018/76GA (24/22X2) ASTM A653 GRADE 40/60 (24/24X2) PER CANADIAN STANDARD C160.2. ANY INSPECTION OF PLATES OUTSIDE OF THIS DESIGN POSITION PER DRAWINGS 160A-2. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER. PER ANSI/TPI 1 SEC. 2.

JAMES E. COLLINS, JR.
FLORIDA
PROFESSIONAL ENGINEER
No. 52212
STATE OF

BOTTOM CHORD FILLER REPAIR

RECOMMENDED REPAIR PROCEDURE

1. MEASURE DISTANCE FOR NEW LENGTH OF FILLER.
2. APPLY NEW 2X4 STUD GRADE OR BETTER VERTICAL SCAB TO BOTTOM CHORD AND FILLER WITH (3) NAILS 0.131" DIA. x 3.0" OR LARGER, (I.E. 10d OR 16d COMMON, SINKER, GUN, OR 16d BOX NAILS) TO EACH END OF VERTICAL.
3. CAREFULLY REMOVE EFFECTED CONNECTOR PLATES. USE CARE NOT TO DAMAGE THE REMAINING CONNECTOR PLATES OR LUMBER IN ANY WAY.
4. TRIM FILLER TO LENGTH, AT EDGE OF NEW VERTICAL SCAB.

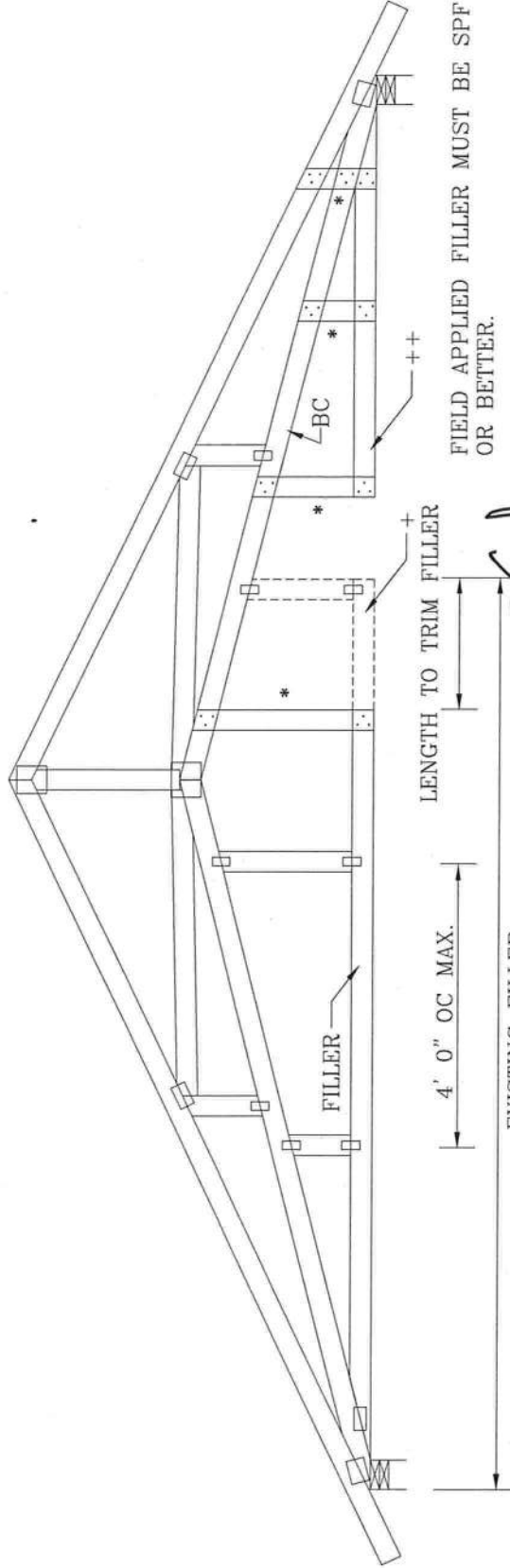
MAXIMUM BOTTOM CHORD LOAD IS 10 PSF.

+ BOTTOM CHORD FILLER TO BE REMOVED. SEE NOTE #3.

++ FIELD APPLIED FILLER.

* 2X4 STUD GRADE OR BETTER VERTICAL SCAB. ATTACH TO BOTTOM CHORD AND FILLER WITH (3) NAILS WITH A MIN. 0.131" DIA. X 3.0" LENGTH.

REFER TO ENGINEER'S SEALED DESIGN REFERRING THIS DETAIL FOR ALLOWABLE FILLER DIMENSIONS, PLACEMENT, AND WEBBING.



EXISTING FILLER

THIS DRAWING REPLACES DRAWING 962,767

REF	BC FILLER REP.	DATE	2/23/07	DRWG	REPBCFILO207	-ENG MLH/KAR
DATE	2/23/07	DRWG	REPBCFILO207	-ENG	MLH/KAR	
DRWG	REPBCFILO207	-ENG	MLH/KAR			

VARINGS** TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BEST BUILDING COMPONENT SAFETY INFORMATION, PUBLISHED BY THE TRUSS PLATE INSTITUTE, 218 NORTH LEE STR., SUITE 312, ALEXANDRIA, VA 22314, AND WPCA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LN, MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

IMPORTANT** FURNISH COPY OF THIS DESIGN TO INSTALLATION CONTRACTOR. ITV, BEG, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI, OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC, BY AF&PA) AND TPI. ITV, BEG CONNECTOR PLATES ARE MADE OF 2018/16GA (W/H/SS/K) ASTM A653 GRADE 40/60 (W/K/H/SS) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS TRUSS, POSITION PLATES 16" ON CENTER. ANY INSPECTION OF PLATES FOLLOWED BY CD SHALL BE PER ANNEAL OF TPI PERIODICALLY. ITV, BEG, INC. IS A PROFESSIONAL ENGINEERING FIRM AND THE PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT DESIGN, SUBMITTAL, AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER, PER ANSI/TPI 1 SEC. 2.

ALPINE
ITV BUILDING COMPONENTS GROUP, INC.
POMPANO BEACH, FLORIDA



PIGGYBACK DETAIL

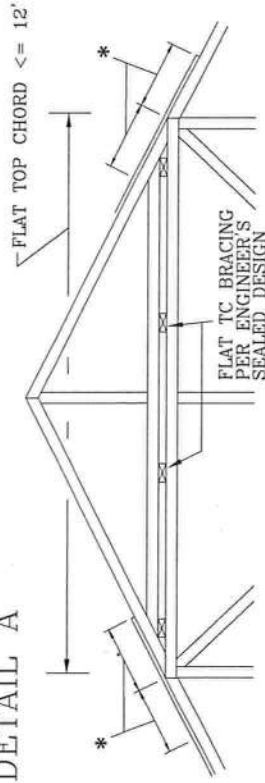
100 MPH WIND, 30.00 FT MEAN HGT, ASCE 7-02 OR ASCE 7-05, CLOSED BLDG, LOCATED ANYWHERE IN ROOF, CAT II, EXP C, WIND TC DL=5.0 PSF, WIND BC DL=5.0 PSF.

80 MPH WIND, 30.00 FT MEAN HGT, SBC, ENCLOSED BLDG, LOCATED ANYWHERE IN ROOF, WIND TC DL=5.0 PSF, WIND BC DL=5.0 PSF.

100 MPH WIND, 30.00 FT MEAN HGT, ASCE 7-98, CLOSED BLDG, LOCATED ANYWHERE IN ROOF, CAT II, EXP C, WIND TC DL=5.0 PSF, WIND BC DL=5.0 PSF.

NOTE: TOP CHORDS OF TRUSSES SUPPORTING PIGGYBACK CAP TRUSSES MUST BE ADEQUATELY BRACED BY SHEATHING OR PURLINS. PROVIDE DIAGONAL BRACING OR OTHER SUITABLE ANCHORAGE TO PERMANENTLY RESTRAIN PURLINS.

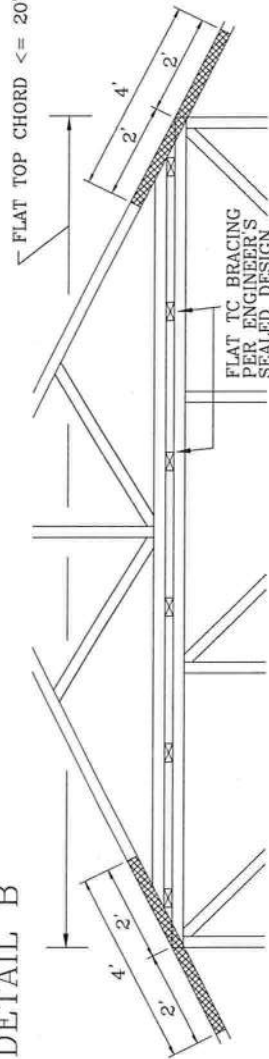
DETAIL A



PIGGYBACK CAP TRUSS TOENAILED TO ALL TOP CHORD BRACING WITH (2) 10d COMMON (0.148"x3") NAILS.

* 12" MIN RIGID SHEATHING OVERLAP WITH 8d COMMON (0.131"x2.5") OR GUN NAILS IN OVERLAP ZONE SPACED AT 4" O.C.

DETAIL B



PIGGYBACK CAP TRUSS TOENAILED TO ALL TOP CHORD BRACING WITH (2) 10d COMMON (0.148"x3") NAILS AND SECURED WITH 2X4 #3 GRADE SCAB (1 SIDE ONLY) ATTACHED WITH 10d COMMON NAILS AT 4" O.C.

DETAIL C

CAP TRUSS TOENAILED TO TOP CHORD BRACING AND SECURED WITH 3X8 TRULOX PLATES (EACH FACE) AT EACH END AND AT 1/3 POINTS. CIRCLED NUMBER INDICATES REQUIRED NUMBER OF 0.120" X 1.375" NAILS PER FACE. SEE DRAWING 160TL FOR TRULOX INFORMATION.

FLAT TOP CHORD <= 30"

IN LIEU OF TRULOX CONNECTORS, ALPINE 62PB SPECIAL PIGGYBACK CONNECTORS MAY BE USED. SHOP APPLY TOOTHED PORTION, FIELD ATTACH TO MATING TRUSS WITH (4) 0.120" X 0.375" NAILS MINIMUM EACH FACE.

(4) 8d COMMON NAILS (0.131"x2.5")

8" X 8" X 1/2" RATED SHEATHING GUSSETS (EACH FACE) MAY BE USED IN LIEU OF TRULOX PLATES. ATTACH WITH (8) 8d COMMON NAILS PER GUSSET. (4) IN CAP BC AND (4) IN BASE TRUSS FLAT TC.

THIS DRAWING REPLACES DRAWINGS 581.670 & 961.860

 ITW BUILDING COMPONENTS GROUP, INC. POMPANO BEACH, FLORIDA	TC LL	PSF	REF	PIGGYBACK
	TC DL	PSF	DATE	2/23/07
	BC DL	PSF	DRWG	PIGBACKA0207
	BC LL	PSF	-ENG	DLJ/KAR
	TOT. LD.	MAX 60 PSF		
DUR. FAC.		1.15		
SPACING		24.0"		

JAMES F. COLLINS JR.
No. 52212
STATE OF FLORIDA
PROFESSIONAL ENGINEER

****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSI (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI TRUSS PLATE INSTITUTE, 218 NORTH LEE STR., SUITE 312, ALEXANDRIA, VA 22314 AND WTCA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LN, MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE ACTIVITIES. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

****IMPORTANT**** FURNISH COPY OF THIS DESIGN TO INSTALLATION CONTRACTOR. ITW BCG, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN; ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS NATIONAL DESIGN SPEC, BY A&P&A AND TPI. ITW, BCG CONNECTOR PLATES ARE MADE OF 2018/16GA C/V/H/SSX01 ASTM A653 GRADE 40/60 (A/K/H/SS) DESIGN. STEEL CONNECTION PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, APPLY TO EACH FACE OF TRUSS. ITW BCG SHALL BE RESPONSIBLE FOR THE DESIGN OF THE TRUSS AND THE DESIGNER'S RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER, PER ANSI/TPI 1 SEC. 2.

TOP CHORD 2X4 #2 OR BETTER
BOT CHORD 2X4 #2 OR BETTER
WEBS 2X4 #3 OR BETTER

REFER TO SEALED DESIGN FOR DASHED PLATES.

SPACE PIGGYBACK VERTICALS AT 4' OC MAX.

TOP AND BOTTOM CHORD SPLICES MUST BE STAGGERED SO THAT ONE SPLICE IS NOT DIRECTLY OVER ANOTHER.

PIGGYBACK BOTTOM CHORD MAY BE OMITTED. ATTACH VERTICAL WEBS TO TRUSS TOP CHORD WITH 1.5X3 PLATE.

ATTACH PURLINS TO TOP OF FLAT TOP CHORD. IF PIGGYBACK IS SOLID LUMBER OR THE BOTTOM CHORD IS OMITTED, PURLINS MAY BE APPLIED BENEATH THE TOP CHORD OF SUPPORTING TRUSS.

REFER TO ENGINEER'S SEALED DESIGN FOR REQUIRED PURLIN SPACING.

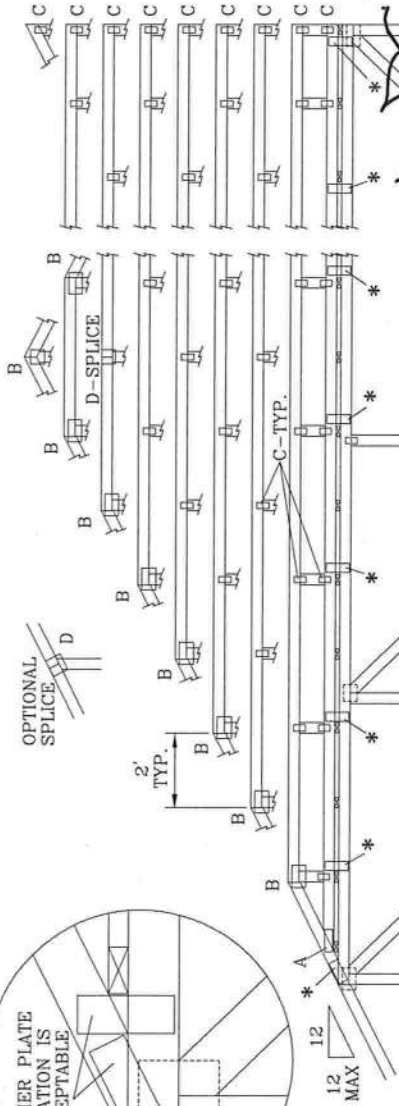
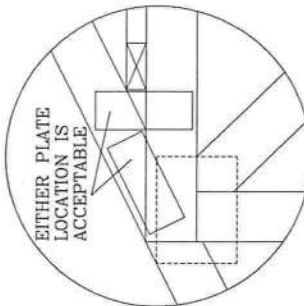
THIS DETAIL IS APPLICABLE FOR THE FOLLOWING WIND CONDITIONS:

130 MPH WIND, 30' MEAN HGT, ASCE 7-98, ASCE 7-02 OR ASCE 7-05, CLOSED BLDG, LOCATED ANYWHERE IN ROOF, CAT II, EXP C, WIND TC DL=5 PSF, WIND BC DL=5 PSF

110 MPH WIND, 30' MEAN HGT, SBC ENCLOSED BLDG, LOCATED ANYWHERE IN ROOF WIND TC DL=5 PSF, WIND BC DL=5 PSF

FRONT FACE (E,*) PLATES MAY BE OFFSET FROM BACK FACE PLATES AS LONG AS BOTH FACES ARE SPACED 4' OC MAX.

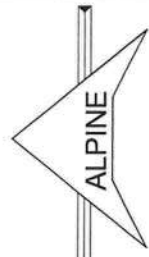
MAX SIZE OF 2X12 #2 OR BETTER



*ATTACH PIGGYBACK WITH 3X8 TRULOX OR ALPINE PIGGYBACK SPECIAL PLATE.

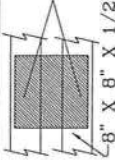
WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCST (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 219 NORTH LEE STR., SUITE 312, ALEXANDRIA, VA 22314) AND WTCA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LN, MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE ACTIVITIES. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

IMPORTANT FURNISH COPY OF THIS DESIGN TO INSTALLATION CONTRACTOR. ITW BCG, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN; ANY FAILURE TO BUILD THE TRUSSES IN CONFORMANCE WITH TPI OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES WILL BE THE RESPONSIBILITY OF THE USER. PROVIDE PROVISIONS OF AISC NATIONAL DESIGN SPEC, BY AISC AND TPI. TRUSSES MUST BE ATTACHED TO THE WALLS OR CEILING OF THE BUILDING. PROVIDE PROVISIONS OF AISC NATIONAL DESIGN SPEC, BY AISC AND TPI. GALV. STEEL APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE INDICATED, ALL PLATES SHALL BE PER DESIGN. POSITION PER DRAWINGS 160A-7. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF TPI 1-2002 SEC. 3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER, PER ANSII/TPI 1 SEC. 2.



PIGGYBACK DETAIL

(4) 6d BOX (0.099" X 2", MIN) NAILS.



8" X 8" X 1/2" RATED SHEATHING GUSSETS (EACH FACE) MAY BE USED IN LIEU OF TRULOX PLATES, ATTACH WITH (8) 6d BOX (0.099" X 2", MIN) NAILS PER GUSSET.

(4) IN CAP BC AND (4) IN BASE TRUSS FLAT TC.

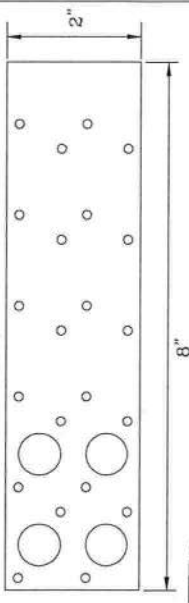
JOINT TYPE	SPANS UP TO			
	30'	34'	38'	52'
A	2X4	2.5X4	2.5X4	3X5
B	4X6	5X6	5X6	5X6
C	1.5X3	1.5X4	1.5X4	1.5X4
D	5X4	5X5	5X5	5X6
E	4X6 OR 3X6 TRULOX AT 4' OC, ROTATED VERTICALLY			

ATTACH TRULOX PLATES WITH (8) 0.120" X 1.375" NAILS, OR EQUAL, PER FACE PER PLY. (4) NAILS IN EACH MEMBER TO BE CONNECTED. REFER TO DRAWING 160 TL FOR TRULOX INFORMATION.

WEB BRACING CHART	
WEB LENGTH	REQUIRED BRACING
0' TO 7'9"	NO BRACING
7'9" TO 10'	1x4 "T" BRACE. SAME GRADE, SPECIES AS WEB MEMBER, OR BETTER, AND 80% LENGTH OF WEB MEMBER. ATTACH WITH 8d BOX (0.113" X 2.5" MIN) NAILS AT 4" OC.
10' TO 14'	2x4 "T" BRACE. SAME GRADE, SPECIES AS WEB MEMBER, OR BETTER, AND 80% LENGTH OF WEB MEMBER. ATTACH WITH 16d BOX (0.135" X 3.5" MIN) NAILS AT 4" OC

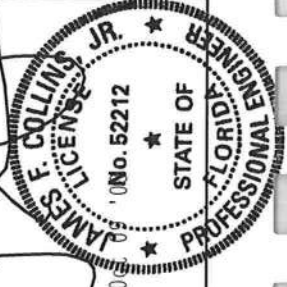
* PIGGYBACK SPECIAL PLATE

ATTACH TEETH TO THE PIGGYBACK AT THE TIME OF FABRICATION. ATTACH TO SUPPORTING TRUSS WITH (4) 0.120" X 1.375" NAILS PER FACE PER PLY. APPLY PIGGYBACK SPECIAL PLATE TO EACH TRUSS FACE AND SPACE 4' OC OR LESS.



DRAWING REPLACES DRAWINGS 634.016 634.017 & 847.045

MAX LOADING	REF	PIGGYBACK
55 PSF AT 1.33 DUR. FAC.	DATE	2/23/07
50 PSF AT 1.25 DUR. FAC.	DRWG	PIGGYBACK0207
47 PSF AT 1.15 DUR. FAC.	-ENG	DLJ/KAR
SPACING	24.0"	



2X4 GABLE VERTICAL SPACING		BRACE		(1) 1X4 "L" BRACE		(2) 2X4 "L" BRACE		(1) 2X6 "L" BRACE		(2) 2X6 "L" BRACE		MAX GABLE VERTICAL LENGTH
		SPECIES	GRADE	GROUP A	GROUP B	GROUP A	GROUP B	GROUP A	GROUP B	GROUP A	GROUP B	
12" O.C.	SPF	#1 / #2	3' 8"	6' 4"	6' 6"	7' 6"	7' 8"	8' 11"	9' 2"	11' 9"	12' 1"	14' 0"
	HF	STUD	3' 7"	5' 5"	5' 5"	7' 2"	7' 2"	8' 11"	8' 11"	11' 2"	11' 2"	14' 0"
	SP	STANDARD	3' 7"	5' 5"	5' 5"	7' 1"	7' 1"	8' 11"	8' 11"	11' 1"	11' 1"	14' 0"
	DFL	#1	4' 0"	6' 4"	6' 10"	7' 6"	8' 1"	8' 11"	9' 7"	11' 9"	12' 8"	14' 0"
16" O.C.	SPF	#1 / #2	3' 9"	5' 7"	5' 7"	7' 4"	7' 4"	8' 11"	9' 5"	11' 5"	11' 5"	14' 0"
	HF	STUD	3' 8"	5' 6"	5' 6"	7' 3"	7' 3"	8' 11"	9' 5"	11' 4"	11' 4"	14' 0"
	SP	STANDARD	3' 8"	5' 6"	5' 6"	7' 3"	7' 3"	8' 11"	9' 5"	11' 4"	11' 4"	14' 0"
	DFL	#1	4' 2"	7' 3"	7' 5"	8' 7"	8' 10"	10' 3"	10' 6"	13' 5"	13' 5"	14' 0"
24" O.C.	SPF	#1 / #2	4' 1"	6' 8"	6' 8"	8' 7"	8' 7"	10' 3"	10' 3"	13' 5"	13' 5"	14' 0"
	HF	STUD	4' 1"	6' 8"	6' 8"	8' 7"	8' 7"	10' 3"	10' 3"	13' 5"	13' 5"	14' 0"
	SP	STANDARD	4' 1"	6' 8"	6' 8"	8' 7"	8' 7"	10' 3"	10' 3"	13' 5"	13' 5"	14' 0"
	DFL	#1	4' 7"	7' 3"	7' 9"	8' 7"	9' 3"	10' 3"	11' 0"	13' 5"	14' 0"	14' 0"
32" O.C.	SPF	#1 / #2	4' 6"	6' 10"	6' 10"	8' 7"	8' 11"	10' 3"	10' 9"	13' 5"	14' 0"	14' 0"
	HF	STUD	4' 6"	6' 10"	6' 10"	8' 7"	8' 11"	10' 3"	10' 9"	13' 5"	14' 0"	14' 0"
	SP	STANDARD	4' 6"	6' 10"	6' 10"	8' 7"	8' 11"	10' 3"	10' 9"	13' 5"	14' 0"	14' 0"
	DFL	#1	4' 7"	7' 3"	7' 9"	8' 7"	9' 3"	10' 3"	11' 0"	13' 5"	14' 0"	14' 0"
40" O.C.	SPF	#1 / #2	4' 7"	7' 3"	7' 9"	8' 7"	9' 3"	10' 3"	11' 0"	13' 5"	14' 0"	14' 0"
	HF	STUD	4' 7"	7' 3"	7' 9"	8' 7"	9' 3"	10' 3"	11' 0"	13' 5"	14' 0"	14' 0"
	SP	STANDARD	4' 7"	7' 3"	7' 9"	8' 7"	9' 3"	10' 3"	11' 0"	13' 5"	14' 0"	14' 0"
	DFL	#1	4' 7"	7' 3"	7' 9"	8' 7"	9' 3"	10' 3"	11' 0"	13' 5"	14' 0"	14' 0"

BRACING GROUP SPECIES AND GRADES:

GROUP A:

SPRUCE-PINE-FIR	HEM-FIR
#1 / #2 STANDARD	#2 STUD
#3 STANDARD	#3 STANDARD

DOUGLAS FIR-LARCH

#3 STUD	#3
STANDARD	STANDARD

GROUP B:

HEM-FIR	DOUGLAS FIR-LARCH
#1 & BTR	#1
#1	#2

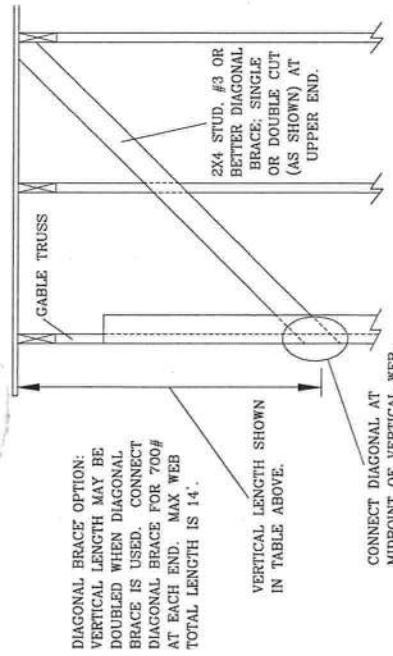
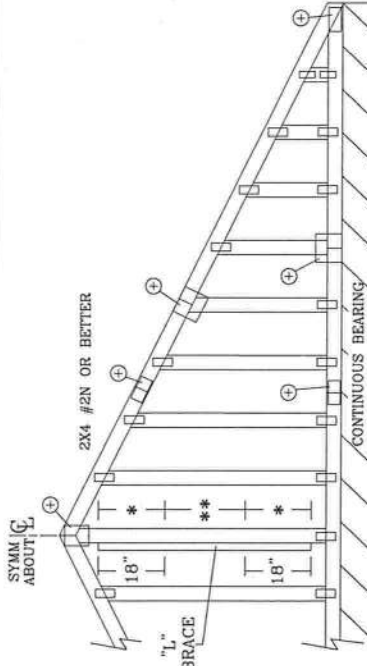
SOUTHERN PINE

#1	#2
----	----

GABLE TRUSS DETAIL NOTES:

- LIVE LOAD DEFLECTION CRITERIA IS L/240.
- PROVIDE UPLIFT CONNECTIONS FOR 100 PLF OVER CONTINUOUS BEARING (5 PSF TO DEAD LOAD).
- GABLE END SUPPORTS LOAD FROM 4' 0" OUTLOOKERS WITH 2' 0" OVERHANG, OR 12" PLAYWOOD OVERHANG.
- ATTACH EACH "L" BRACE WITH 10d NAILS.
- IN 18" END ZONES AND 4" O.C. BETWEEN ZONES.
- ** FOR (2) "L" BRACES: SPACE NAILS AT 3" O.C.
- IN 18" END ZONES AND 6" O.C. BETWEEN ZONES.
- "L" BRACING MUST BE A MINIMUM OF 80% OF WEB MEMBER LENGTH.

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.		



ALPINE

ITW BUILDING COMPONENTS GROUP, INC.
POMPA BEACH, FLORIDA

WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSI BUILDING COMPONENT SAFETY INFORMATION, PUBLISHED BY TPI TRUSS PLATE INSTITUTE, 218 NORTH LEE STR., SUITE 312, ALEXANDRIA, VA 22314, AND VITCA (WOOD TRUSS) COUNCIL OF AMERICA, 6300 ENTERPRISE LN, MADISON, WI 53719. FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

IMPORTANT FURNISH COPY OF THIS DESIGN TO INSTALLATION CONTRACTOR. ITV BCG, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN, ANY FAILURE TO BRACING OF TRUSSES IN CONFORMANCE WITH TPI OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BUILDING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS NATIONAL DESIGN SPEC. BY AF&PA AND TPI. ITV BCG CONNECTOR PLATES ARE MADE OF 2018/16GA C/H/SS/KO ASTM A653 GRADE 40/60 C/H/SS. DESIGN OF TRUSSES AND EACH FACE OF TRUSS AND UNLESS OTHERWISE LOCATED ON THIS DESIGN, ALL TRUSS MEMBER END CONNECTIONS SHALL BE MADE IN ACCORDANCE WITH THE PER ANEX A3 OF TPI 1-2002 SEC. 3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER, PER ANSI/TPI 1 SEC. 2.

REF ASC7-02-GAB11030

DATE 2/23/07

DRWG A11030EE0207

-ENG

MAX. TOT. LD. 60 PSF

MAX. SPACING 24.0"

28026

Arthur  Rutenberg Homes

December 2, 2009

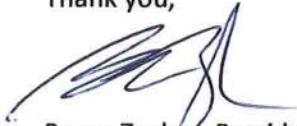
Columbia County Building Department
135 NE Hernando Ave.
Lake City, FL 32055

To Whom it May Concern:

This letter is to notify you that the porch columns for the model home at the Oaks of Lake City, Lot 54 , permit number 28-026, meet the structural strapping requirements that were required by Mark Disosway in the engineering plans.

If you have any questions, please do not hesitate to call me at (386) 752-8653.

Thank you,



Bryan Zecher, President
Bryan Zecher Homes, Inc.

3)

28026

P.D.C. 18.50
Cert. Copy 4.50

THIS INSTRUMENT WAS PREPARED BY:
TERRY McDAVID
POST OFFICE BOX 1328
LAKE CITY, FL 32056-1328

Int: 200912013558 Date: 8/13/2009 Time: 3:53 PM
Doc: P.D.W.M. Cason, Columbia County Page 1 of 2 8/11/09 P.34

RETURN TO:
TERRY McDAVID
POST OFFICE BOX 1328
LAKE CITY, FL 32056-1328
File No. 09-187

PERMIT NO. _____

TAX FOLIO NOS.: R09280-154

NOTICE OF COMMENCEMENT

STATE OF FLORIDA
COUNTY OF COLUMBIA

The undersigned hereby gives notice that improvement will be made to certain real property, and in accordance with Chapter 713, Florida Statutes, the following information is provided in this Notice of Commencement.

1. Description of property:

Lot 54, OAKS OF LAKE CITY PHASE 1, a subdivision recorded in Plat Book 9, Pages 46-52 of the public records of Columbia County, Florida.

2. General description of improvement: Construction of Dwelling

3. Owner information:

a. Name and address: BRYAN ZECHER HOMES, INC., Post Office Box 815, Lake City, Florida 32056.

b. Interest in property: Fee Simple

c. Name and address of fee simple title holder (if other than Owner):

4. a. Contractor: BRYAN ZECHER HOMES, INC., Post Office Box 815, Lake City, Florida 32056.

b. Contractor's Telephone Number: 386-752-8653

5. Surety

a. Name and address: None

b. Phone Number:

c. Amount of Bond:

6. a. Lender: PEOPLES STATE BANK, 350 SW Main Boulevard, Lake City, Florida 32025.

b. Lender's Telephone Number: 386-754-0002

7. a. Persons within the State of Florida designated by Owner upon whom notices or other documents may be served as provided by Section 713.13(1)(a)7., Florida Statutes: None

b. Phone Number:

8. a. In addition to himself, Owner designates GILBERT W. MILLER, Vice President of PEOPLES STATE BANK, 350 SW Main Boulevard, Lake City, Florida 32025, to receive a copy of the Lienor's Notice as provided in Section 713.13(1)(b), Florida Statutes.

b. Phone Number: 386-754-0002

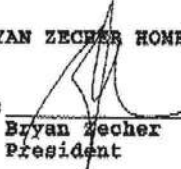
9. Expiration date of notice of commencement (the expiration date is 1 year from the date of recording unless a different date is specified).

"WARNING TO OWNER: ANY PAYMENTS MADE BY THE OWNER AFTER THE EXPIRATION OF THE NOTICE OF COMMENCEMENT ARE CONSIDERED IMPROPER PAYMENTS UNDER CHAPTER 713, PART I, SECTION 713.13, FLORIDA STATUTES, AND CAN RESULT IN YOUR PAYING TWICE FOR IMPROVEMENTS TO YOUR PROPERTY. A NOTICE OF COMMENCEMENT MUST BE RECORDED AND POSTED ON THE JOB SITE BEFORE THE FIRST INSPECTION. IF YOU INTEND TO OBTAIN FINANCING, CONSULT WITH YOUR LENDER OR AN ATTORNEY BEFORE COMMENCING WORK OR RECORDING YOUR NOTICE OF COMMENCEMENT."

VERIFICATION PURSUANT TO SECTION 92.525, FLORIDA STATUTES.

UNDER PENALTIES OF PERJURY, I DECLARE THAT I HAVE READ THE FOREGOING AND THAT THE FACTS STATED IN IT ARE TRUE TO THE BEST OF MY KNOWLEDGE AND BELIEF.

BRYAN ZECHER HOMES, INC.

By: 
Bryan Zecher
President

STATE OF FLORIDA
COUNTY OF COLUMBIA

The foregoing instrument was acknowledged before me this 13th day of August 2009, by BRYAN ZECHER, President of BRYAN ZECHER HOMES, INC., a Florida corporation, on behalf of said corporation. He is personally known to me and did not take an oath.


Notary Public

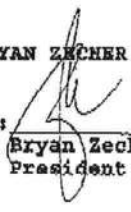
My commi



VERIFICATION PURSUANT TO SECTION 92.525, FLORIDA STATUTES.

UNDER PENALTIES OF PERJURY, I DECLARE THAT I HAVE READ THE FOREGOING AND THAT THE FACTS STATED IN IT ARE TRUE TO THE BEST OF MY KNOWLEDGE AND BELIEF.

BRYAN ZECHER HOMES, INC.

By: 
Bryan Zecher
President

COLUMBIA COUNTY FLORIDA DEPARTMENT OF BUILDING AND ZONING INSPECTION

OCCUPANCY

COLUMBIA COUNTY, FLORIDA

Department of Building and Zoning Inspection

This Certificate of Occupancy is issued to the below named permit holder for the building and premises at the below named location, and certifies that the work has been completed in accordance with the Columbia County Building Code.

Parcel Number 18-5S-17-09280-154

Building permit No. 000028026

Use Classification SFD, UTILITY

Fire: 38.52

Permit Holder BRYAN ZECHER

Waste: 100.50

Owner of Building BRYAN ZECHER HOMES

Total: 139.02

Location: 1343 SW MANDIBA DR, LAKE CITY, FL 32024



Date: 04/23/2010

Nancy Dieke

Building Inspector

POST IN A CONSPICUOUS PLACE
(Business Places Only)

Notice of Treatment

Applicator: Florida Pest Control & Chemical Co. (www.flapest.com)

Address: 536 SE BAYVIEW AVE

City: Lake City, FL Phone: 752/1703

Site Location: Subdivision THE OAKS

Lot # _____ Block# _____ Permit # 28026

Address 1343 SW MANDBA DR

Product used

Active Ingredient

% Concentration

☒ Premise Imidacloprid 0.1%

☐ Termidor Fipronil 0.12%

☐ Bora-Care Disodium Octaborate Tetrahydrate 23.0%

Type treatment:

☐ Soil

☐ Wood

Area Treated

Square feet

Linear feet

Gallons Applied

Entire Main Body
(- Front Porch)

2956

379

300

As per Florida Building Code 104.2.6 – If soil chemical barrier method for termite prevention is used, final exterior treatment shall be completed prior to final building approval.

If this notice is for the final exterior treatment, initial this line _____.

9/16/09

Date

1100

Time

James Parker

Print Technician's Name

Remarks: _____

Applicator - White

Permit File - Canary

Permit Holder - Pink